WILMINGTON WAY, RESIDENCE

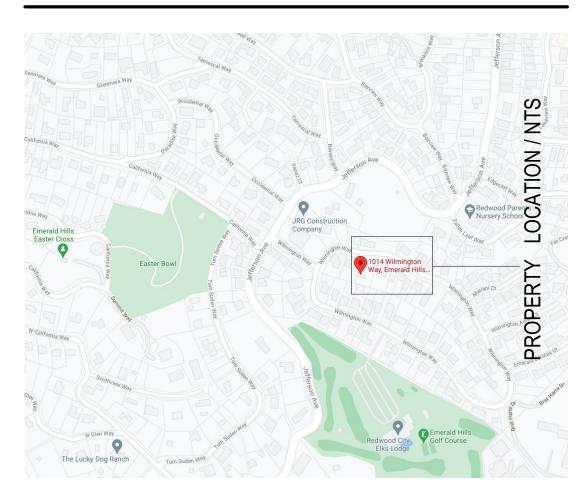
EMERALD HILLS, CA

SQF(NON PERMITTED)

SQF HABITABLE SPACE

SQF UN-HABITABLE GARAGE SPACE

VICINITY MAP:



PROJECT DATA:

ASSESSOR'S PARCEL NUMBER PROJECT TYPE: PROJECT LOCATION:

ZONING: OCCUPANCY GROUP: CONSTRUCTION TYPE: NUMBER OF FLOORS:

FIRE PROTECTION: BEDROOM: BATHROOM: LOT SIZE: 2019 FLOOD ZONE: AVERAGE SLOPE:

068212030 ADDITION AND REMODEL 1014 WILMINGTON WAY. EMERALD HILLS, CA 94062 Residential Hillside District/Design Review R -3/U

NON-SPRINKLERED 2 TOTAL + 1 OFFICE 2 FULL AND 1 HALF BATH 16,443 SQ.FT

2.19 %

CODE EDITIONS:

A. CALIFORNIA RESIDENTIAL	2019 EDITION
B. CALIFORNIA BUILDING	2019 EDITION
C. CALIFORNIA GREEN BUILDING	2019 EDITION
D. CALIFORNIA MECHANICAL	2019 EDITION
E. CALIFORNIA PLUMBING	2019 EDITION
F. CALIFORNIA ELECTRICAL	2019 EDITION
G. CALIFORNIA ENERGY:	2019 EDITION
H. CALIFORNIA FIRE:	2019 EDITION
ANY OTHER APPLICABLE LOCAL AND STATE LAWS	2019 EDITION
AND REGULATIONS.	

SCOPE OF WORK:

-369 SQ.FT OF ADDITION TO THE MAIN HOUSE. - ADDITION TO INCLUDE NEW GREAT ROOM, KITCHEN SPACE, LIVING ROOM AND DINING ROOM AREA.

- INTERIOR REMODEL FOR THE FULL HOUSE. NEW POWDER ROOM, NEW OFFICE SPACE, BEDROOM LOCATIONS ALONG WITH MASTER BATHROOM AND HALWAY BATHROOM REMODELS.

-539 SQ.FT OF ATTACHED GARAGE TO THE MAIN. - IN-FILL EXISTING POOL TO CREATE NEW DRIVEWAY ENTRANCE TO THE GARAGE SPACE.

- TWO EXTERIOR DECK LANDING. EACH OF THE DECK SPACE ARE LESS THAN 18 INCHES IN HEIGHT FROM FLOOR FINISH. MAXIMUM HEIGHT PROPOSED ARE 7 3/4" IN HEIGHT.

ALL NEW ROOF OVER THE HOUSE WITH NEW ROOF PITCH AND WINDOW LOCATIONS.

NO CHANGE TO EXISTING GAS METER EXISTING ELECTRICAL PANEL UPGRADE TO 200 AMP.

PROJECT CONTACT:

KATHERINE CHAPPELEAR 1014 WILMINGTON WAY., EMERALD HILLS, CA 94062 EMAIL: kchappelear@att.net

DESIGNER: RAMIN ZOHOOR **BARON CONSTRUCTION** 14510 BIG BASIN WAY B, SARATOGA, CA RAMIN@BARONCNR.COM

> TEL: 408-497-5071 WWW.BARONCNR.COM

STRUCTURAL: AQX ENGINEERING INC. 6525 CROWN BLVD #41068 SAN JOSE, CA 95160 TEL: 408-229-3517

> **BARON CONSTRUCTION** 14510 BIG BASIN WAY B, SARATOGA, CA BARON.CNR@GMAIL.COM

WWW.AQXENG.COM

TEL: 1-800-965-2028 WWW.BARONCNR.COM

ENERGY: CARSTAIRS ENERGY INC.

2238 BAYWVIEW HEIGHTS DRIVE, SUITE E LOS OSOS, CA 93402 TEL: 805-904-9048

EMAIL: JESUS@OSUNAENGINEERING.COM TEL: 669-247-1505

DRAWING INDEX:

ARCHITECTURAL PLAN:

BUILDER:

COVER SHEET TOPO AND BOUNDARY MAP AS-1 SITE PLAN EXISTING AND PROPOSED FLOOR PLAN PROPOSED ROOF PLAN A-02: A-03: CROSS SECTION DETAILS **ELEVATIONS** A-05: **ELEVATIONS EXISTING ELEVATIONS** GRADING PLAN SHEET

GRADING PLAN SHEET 2 GRADING DETAIL SHEET GRADING PLAN SHEET BMP SHEET COUNTY

SANITARY SEWER SHEET 1 C-2.0 SANITARY SEWER SHEET 2 SANITARY SEWER SHEET 3 SANITARY SEWER SHEET 4

GENERAL NOTES:

EXISTING CONDITION:

"E" GARAGE:CARPORT

"N" ADDITION:1ST LEVEL

"N" ADDITION:1ST LEVEL

PROPOSED CONDITION: "N" LIVING SPACE:1ST LEVEL

(N) LOT COVERAGE AREA:

"N" GARAGE:

LOT AREA:

PROPOSED WORK:

"E" LIVING SPACE:1ST LEVEL

DEMO EXISTING NON PERMITTED CARPORT

LOT COVERAGE: (LIVING AREA + GARAGE)

(1355+539) = 1894 / 16443 = 0.115 = 11.5 PERCENT

246

1355

539

16,443

SQF

SQF

SQF

ALL WORK DESCRIBED IN THE DRAWINGS SHALL BE VERIFIED FOR DIMENSION GRADE, EXTENT AND COMPATIBILITY TO THE EXISTING SITE. ANY DISCREPANCIES AND UNEXPECTED CONDITIONS THAT AFFECT OR CHANGE THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE DESIGNER ATTENTION IMMEDIATELY. DO NOT PROCEED WITH THE WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO HE SHALL BE PRECEDING AT HIS OWN RISK.

OMISSIONS FROM THE DRAWINGS AND SPECIFICATIONS OR THE MIS-DESCRIPTION OF THE WORK WHICH IS MANIFESTLY NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS, OR WHICH IS CUSTOMARILY REFORMED, SHALL NOT RELIEVE THE CONTRACTOR FROM PERFORMING SUCH OMITTED OR MIS-DESCRIBED DETAILS OF THE WORK AS IF FULLY AND COMPLETELY SET FORTH AND DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS.

SITE CONDITIONS: ALL CONTRACTORS AND SUB-CONTRACTORS SHALL VERIFY DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO COMMENCEMENT OF THEIR WORK. FAILURE TO DO SO SHALL NOT RELEASE THEM FROM THE RESPONSIBILITY OF ESTIMATING THE WORK, IF ANY VARIATION, DISCREPANCY OR OMISSION (BETWEEN THE INTENT OF THESE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS ARE FOUND, THE CONTRACTOR OR SUB-CONTRACTOR SHALL NOTIFY DESIGNER IN WRITING AND OBTAIN WRITTEN RESOLUTION FROM DESIGNER PRIOR TO PROCEEDING WITH ANY RELATED WORK.

AREA CALCULATION: PLANNING APPROVAL LETTERS:

WILMINGTON WAY., RESIDENCE

1014 WILMINGTON WAY. EMERALD HILLS, CA 94062

REMODELING FOR:

REVISION TABLE:

ı	
ı	
ı	
ı	
ı	
ı	
ı	
ı	
ı	

SHEET TITLE:

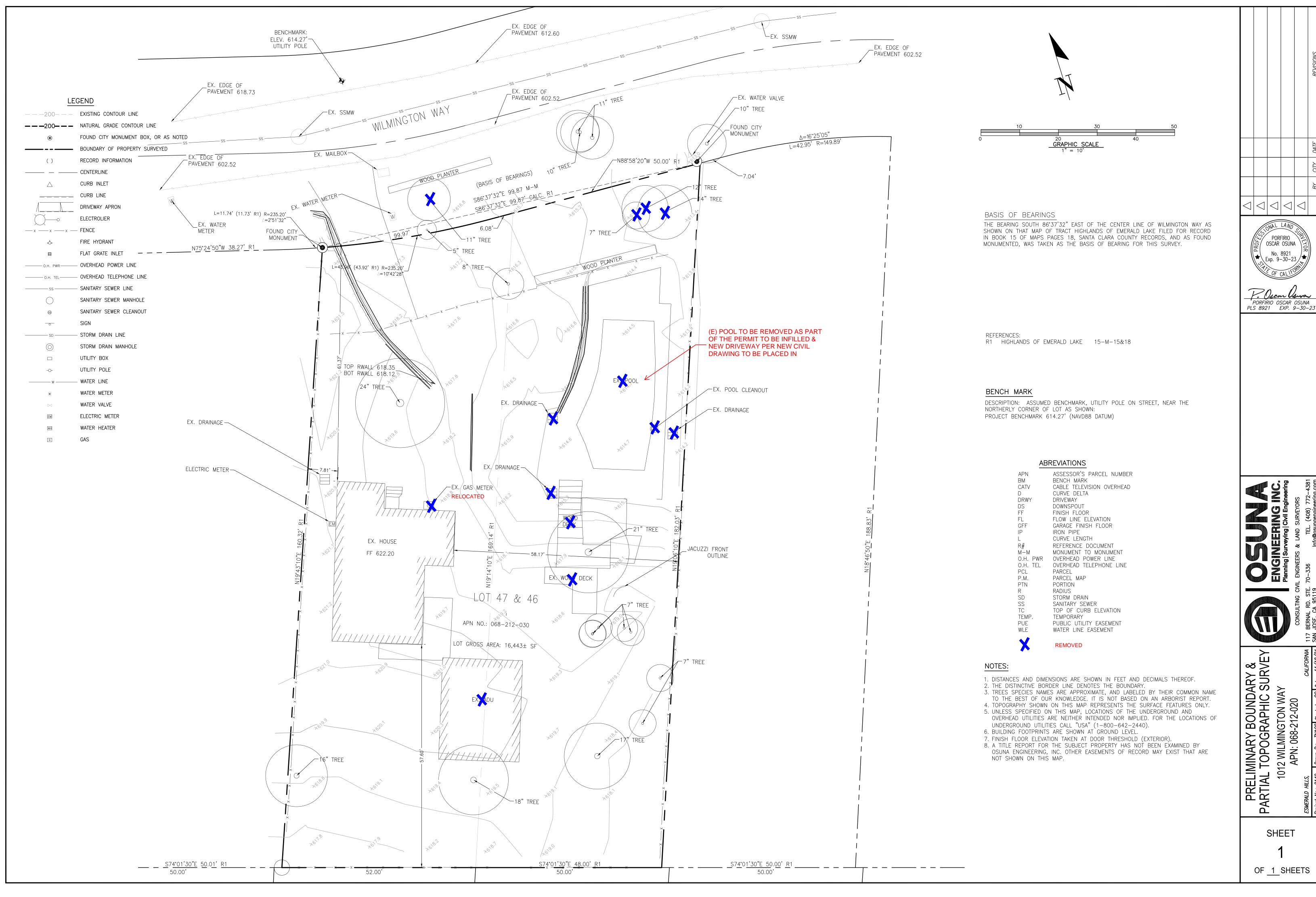
COVER SHEET

MAY 2021

PROJECT ID: DATE: SCALE: **DRAWN BY:** BARON CONSTRUCTION (RZ)

A-00.01





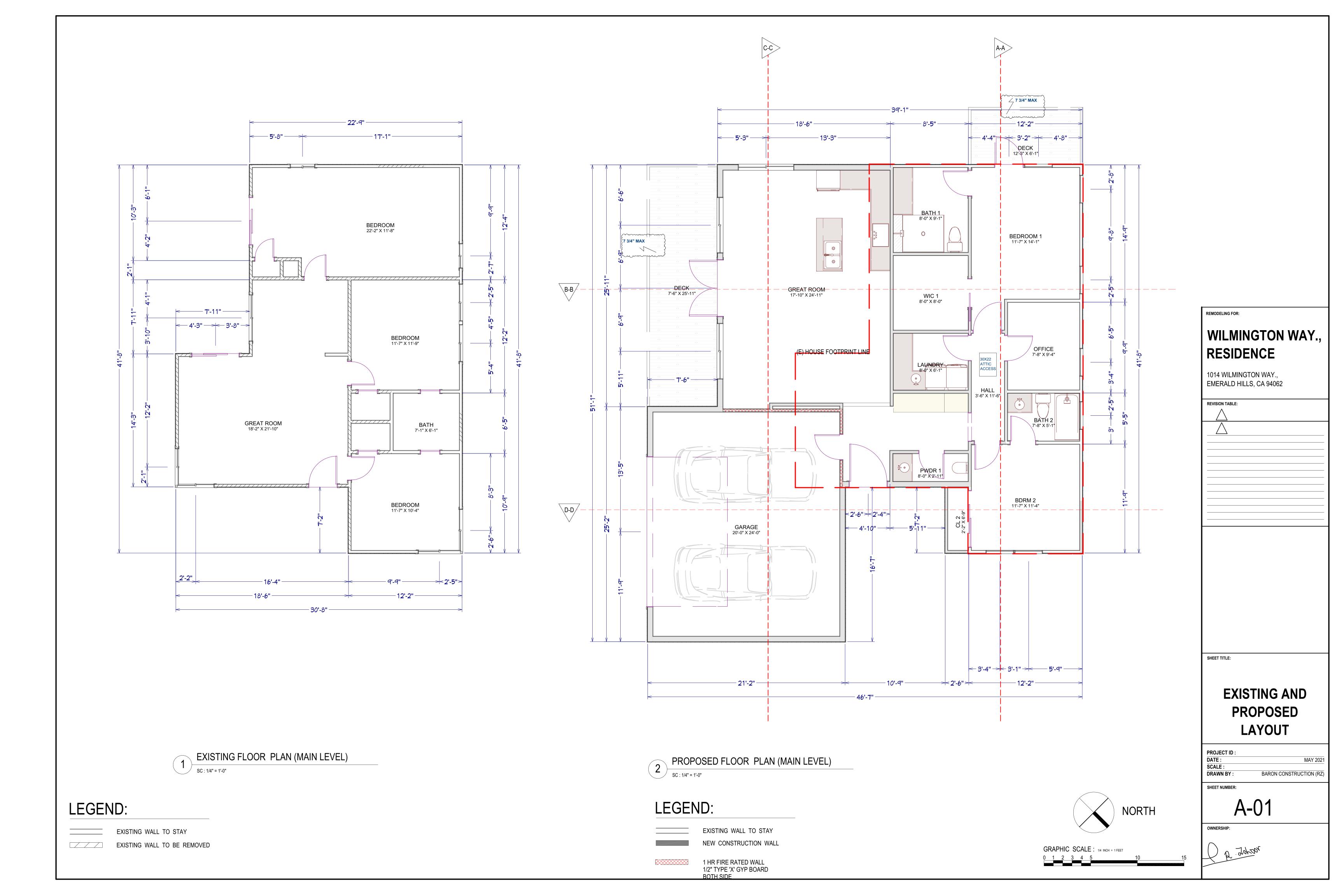
P/L 98.0 FFFT GRADING and DEMO NOTES: 60. 1. CONTACT PUBLIC WORKS. FOR DRAINAGE AND FINAL GRADE INSPECTION. WHICH INCLUDES DRAIN LINES AND ROOF DRAINS/DOWN SPOUTS. 2. ALL PUBLIC IMPROVEMENTS MUST BE COMPLETED PRIOR TO OCCUPANCY. 16" tree 17" tree 3. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL AND INSURING THE AREA ADJACENT TO THE WORK IS LEFT IN A CLEAN CONDITION. 4. THE CONTRACTOR SHALL REVIEW STD. DETAIL 6-4 ON TREE PROTECTION PRIOR TO ACCOMPLISHING ANY WORK OR REMOVING ANY TREES. 5. UTILIZE BEST MANAGEMENT PRACTICES (BMP'S), AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD, FOR ANY ACTIVITY, WHICH DISTURBS 6. ALL NEW ELECTRICAL SERVICE (POWER, PHONE, AND OR CABLE) SHALL BE 7. TO INITIATE RELEASE OF BONDS, CONTACT THE PUBLIC WORKS INSPECTOR FOR FINAL INSPECTION. 8. ALL DOWNSPOUTS TO BE RELEASED TO THE GROUND SURFACE, DIRECTED AWAY FROM BUILDING FOUNDATIONS AND DIRECTED TO LANDSCAPE AREAS. 9. PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, THE **EXISTING HOUSE** CONTRACTOR WILL BE RESPONSIBLE FOR PULLING AN ENCROACHMENT PERMIT **FOOTING PRINT.** FROM THE PUBLIC WORKS DEPARTMENT. 7" tree 10. PROVIDE MIN. 5% GRADE SLOPE AWAY FROM FOUNDATION FOR A MIN. DISTANCE OF 10 FEET MEASURE PERPENDICULAR TO THE FACE OF THE WALL. WITH EXCEPTION: a. IF BUILDING SITE DOES NOT ALLOW 10 FEET OF SLOPE. INDICATE THE INSTALLATION OF DRAINS OR SWALES TO ENSURE DRAINAGE AWAY FROM THE b. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION REMODELING FOR: SHALL BE SLOPED A MIN 2% AWAY FROM THE BUILDING. BEDROOM 1 11. (E) DRAINAGE SHALL REMAIN THROUGHOUT CONSTRUCTION. WILMINGTON WAY., GREAT ROOM RESIDENCE TREE PROTECTION NOTES: 1014 WILMINGTON WAY., EMERALD HILLS, CA 94062 1. A PLOT PLAN SHALL BE PREPARED DESCRIBING THE RELATIONSHIP OF PROPOSED GRADING AND UTILITY TRENCHING TO THE TREES DESIGNATED FOR PRESERVATION. CONSTRUCTION AND GRADING SHOULD NOT SIGNIFICANTLY REVISION TABLE: RAISE OR LOWER THE GROUND LEVEL BENEATH TREE DRIP LINES. IF THE GROUND LEVEL IS PROPOSED FOR MODIFICATION BENEATH THE DRIP LINE, THE (E) ELECTRICAL ARCHITECT/ARBORIST SHALL ADDRESS AND MITIGATE THE IMPACT TO THE METER - NO WORK 2. ALL TREES TO BE PRESERVED ON THE PROPERTY AND ALL TREES ADJACENT TO THE PROPERTY SHALL BE PROTECTED AGAINST DAMAGE DURING **NEW DRIVEWAY ACCESS** CONSTRUCTION OPERATIONS BY CONSTRUCTING A FOUR-FOOT-HIGH FENCE TO THE NEW GARAGE DOOR OPENING (E) GAS METER-AROUND THE DRIP LINE. AND ARMOR AS NEEDED. THE EXTENT OF FENCING 7.8' AND ARMORING SHALL BE DETERMINED BY THE LANDSCAPE ARCHITECT. THE TREE PROTECTION SHALL BE PLACED BEFORE ANY EXCAVATION OR GRADING IS BEGUN AND SHALL BE MAINTAINED IN REPAIR FOR THE DURATION OF THE CONSTRUCTION WORK. 3. NO CONSTRUCTION OPERATIONS SHALL BE CARRIED ON WITHIN THE DRIP LINE AREA OF ANY TREE DESIGNATED TO BE SAVED EXCEPT AS IS AUTHORIZED BY THE DIRECTOR OF COMMUNITY DEVELOPMENT. 4. IF THE TRENCHING IS REQUIRED TO PENETRATE THE PROTECTION BARRIER FOR THE TREE, THE SECTION OF TRENCH IN THE DRIP LINE SHALL BE HAND DUG SO AS TO PRECLUDE THE CUTTING OF ROOTS. PRIOR TO INITIATING ANY TRENCHING WITHIN THE BARRIER APPROVAL BY STAFF WITH CONSULTATION OF AN ARBORIST SHALL BE COMPLETED. 5. TREES WHICH REQUIRE ANY DEGREE OF FILL AROUND THE NATURAL GRADE SHALL BE GUARDED BY RECOGNIZED STANDARDS OF TREE PROTECTION AND DESIGN OF TREE WELLS. 24" tree 6. THE AREA UNDER THE DRIP LINE OF THE TREE SHALL BE KEPT CLEAN. NO CONSTRUCTION MATERIALS NOR CHEMICAL SOLVENTS SHALL BE STORED OR DUMPED UNDER A TREE. PLEASE REFER TO SHEET C-1 FOR ALL TREE PLAN AND DRIVE WAY DETAIL PLAN 7. FIRES FOR ANY REASON SHALL NOT BE MADE WITHIN FIFTY FEET OF ANY TREE SELECTED TO REMAIN AND SHALL BE LIMITED IN SIZE AND KEPT UNDER CONSTANT SURVEILLANCE. TYP. TREE FENCE PROTECTION PLR ARBORIST REPORT SHEET TITLE: 8. THE GENERAL CONTRACTOR SHALL USE A TREE SERVICE LICENSEE, AS DEFINED BY CALIFORNIA BUSINESS AND PROFESSIONAL CODE, TO PRUNE AND CUT OFF THE BRANCHES THAT MUST BE REMOVED DURING THE LANDSCAPE ARCHITECT/ARBORIST WITH APPROVAL OF STAFF. **PROPOSED** 9. ANY DAMAGE TO EXISTING TREE CROWNS OR ROOT SYSTEMS SHALL BE REPAIRED IMMEDIATELY BY AN APPROVED TREE SURGEON. WPROPOSED DRIVEWAY REPLACEMENT OF (E) PO SITE PLAN 10. NO STORAGE OF CONSTRUCTION MATERIALS OR PARKING SHALL BE PERMITTED WITHIN THE DRIP LINE AREA OF ANY TREE DESIGNATED TO BE SAVED. PROJECT ID: 11. TREE PROTECTION REGULATIONS SHALL BE POSTED ON PROTECTIVE DATE: MAY 2021 FENCING AROUND TREES TO BE PROTECTED. SCALE: **DRAWN BY:** BARON CONSTRUCTION (RZ) (N) 3/4" WATER LINE TO THE **HOUSE FROM MAIN METER** WILMINGTON WAY SHEET NUMBER: LEGEND: PROPOSED SETBACK PLAN **A-S1** 011 93.92 FEET TREE FENCE PROPERTY LINE _____ PROTECTION PER OWNERSHIP: ARBORIST REPORT 10" tree

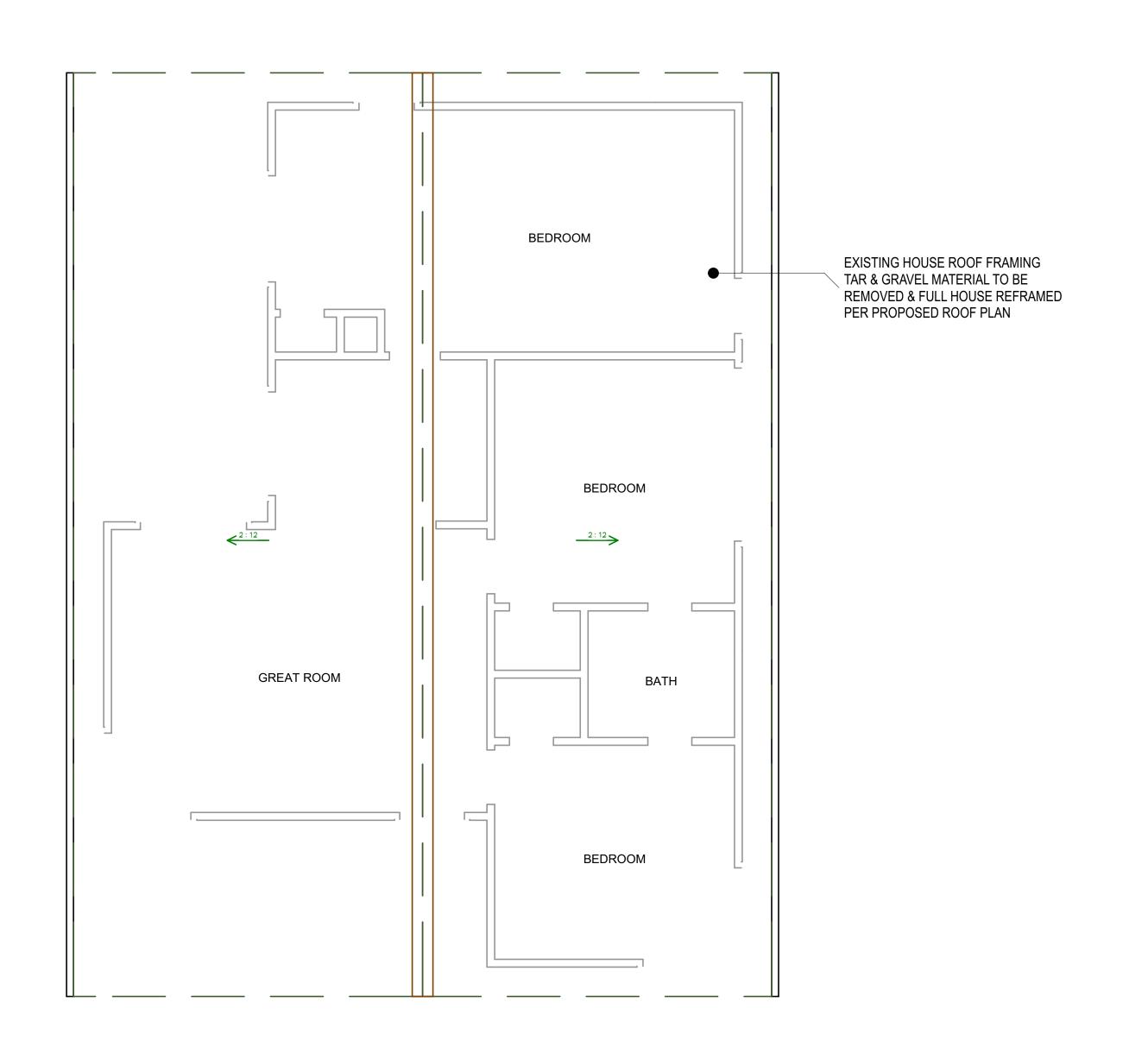
BLDG FOOT PRINT

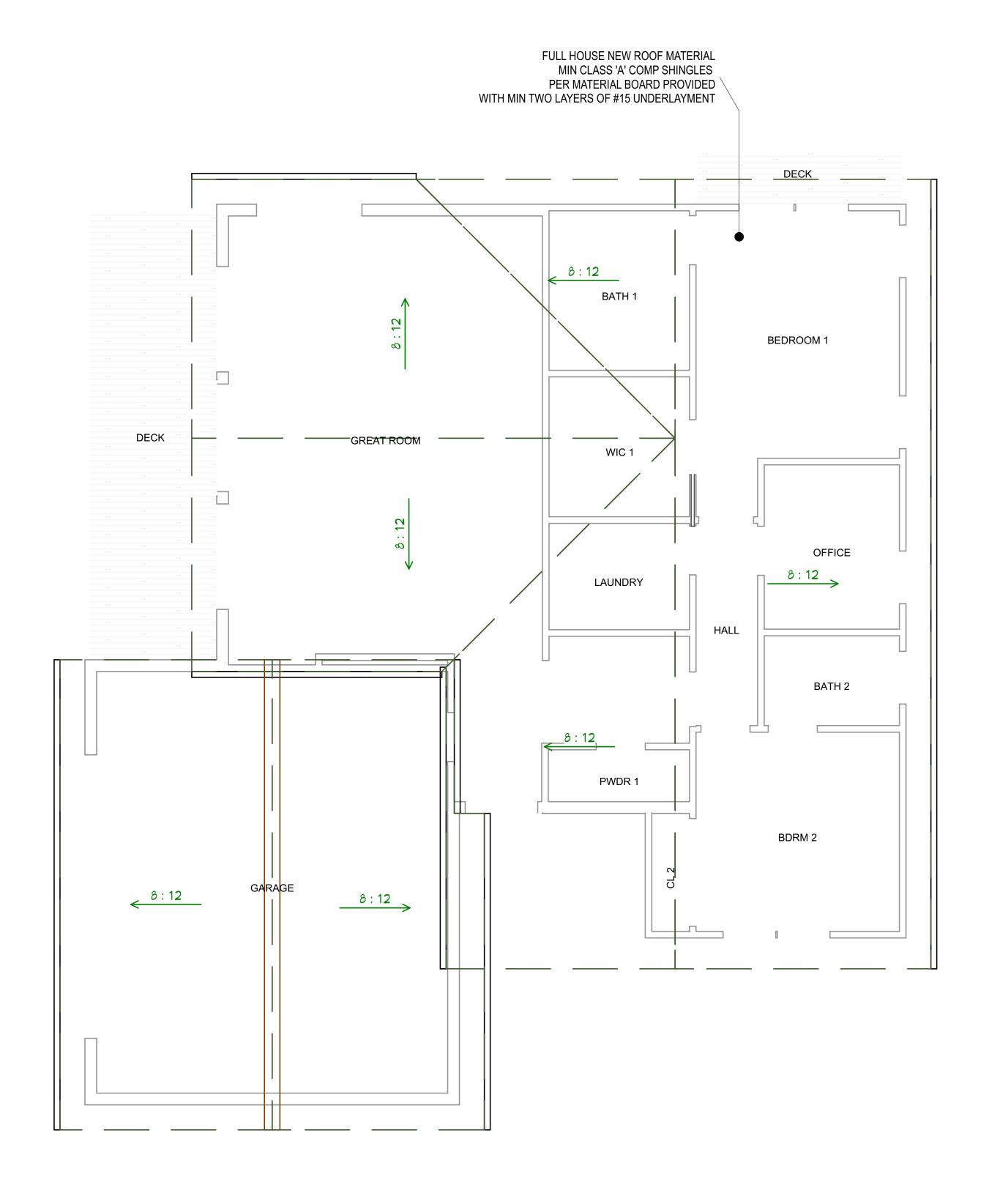
GRAPHIC SCALE: 1/8 INCH = 1 FEET

EXISTING HOUSE

FOOT PRINT







REMODELING FOR:

WILMINGTON WAY., RESIDENCE

1014 WILMINGTON WAY., EMERALD HILLS, CA 94062

REVISION TABLE:	
\wedge	

ROOF PLAN CONDITIONS

 PROJECT ID :

 DATE :
 MAY 2021

 SCALE :
 1/4" = 1'

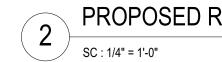
 DRAWN BY :
 BARON CONSTRUCTION (RZ)

SHEET NUMBE

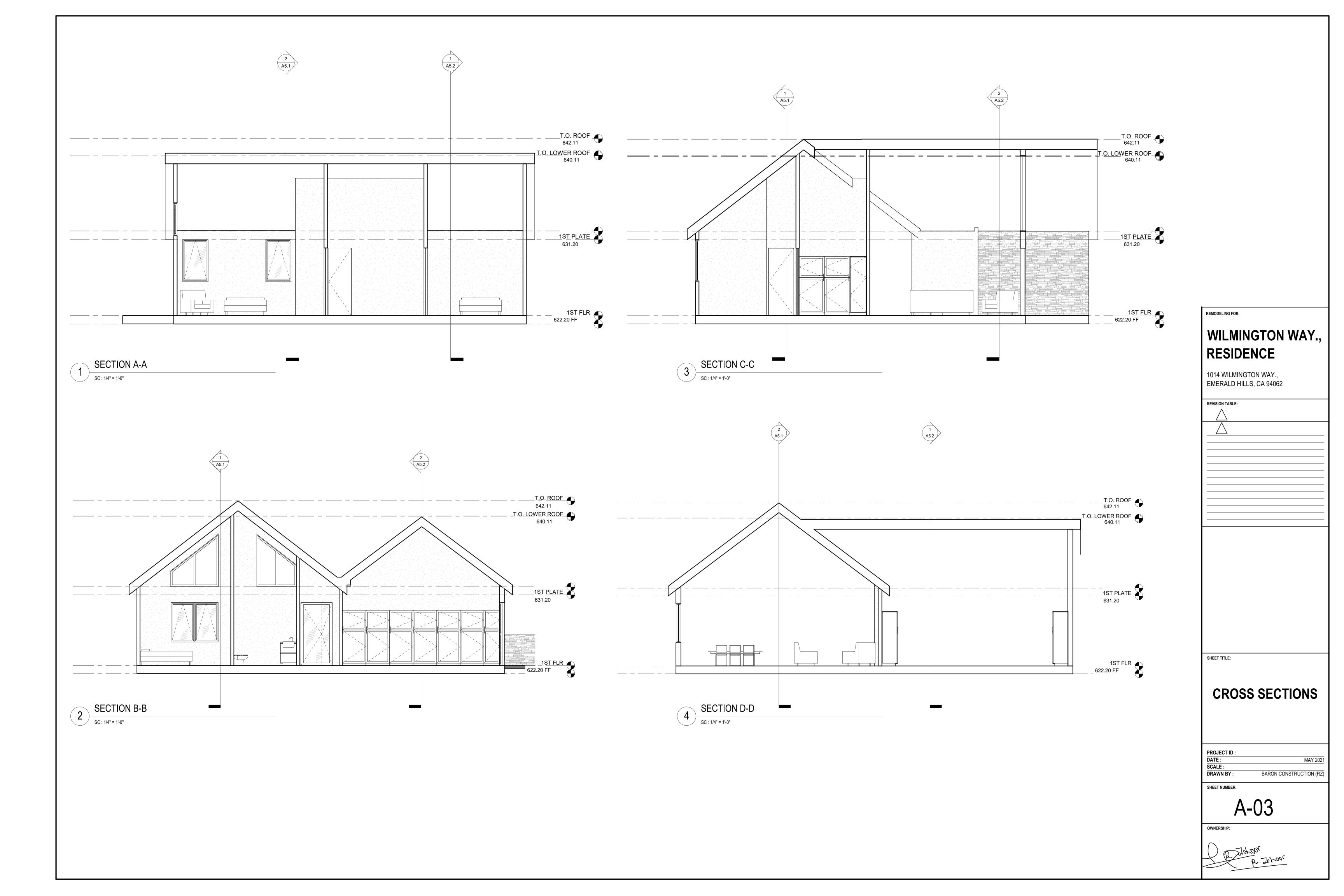
A-02

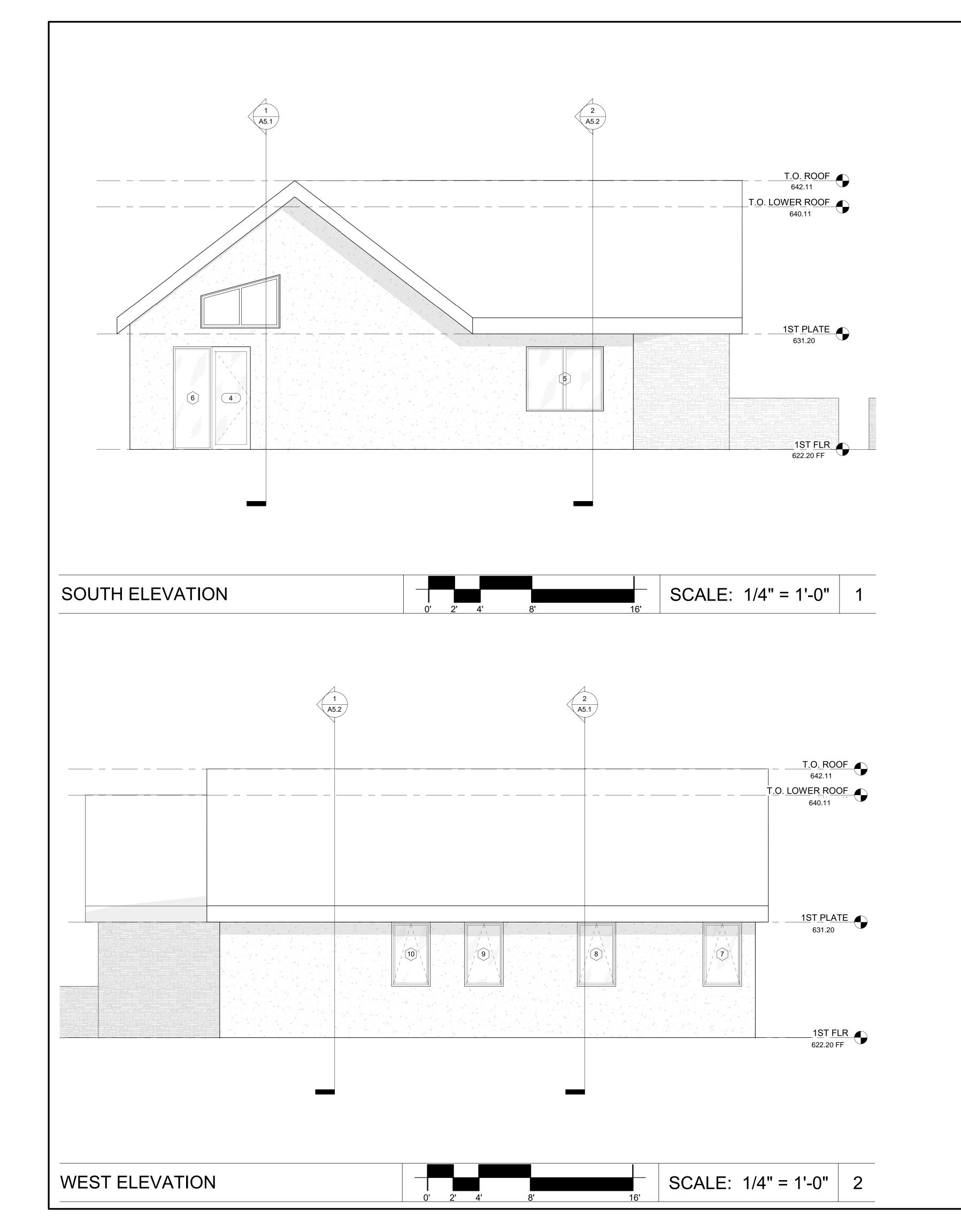
D. Johnson

1 EXISTING ROOF PLAN











ROOF SHINGLES MATERIAL



EXTERIOR WARM GRAY STUCCO FINISH



EXTERIOR STONE TEXTURE FINISH

REMODELING FOR:	
WILMINGTON RESIDENCE	WAY
1014 WILMINGTON WAY., EMERALD HILLS, CA 94062	
REVISION TABLE:	
\land	

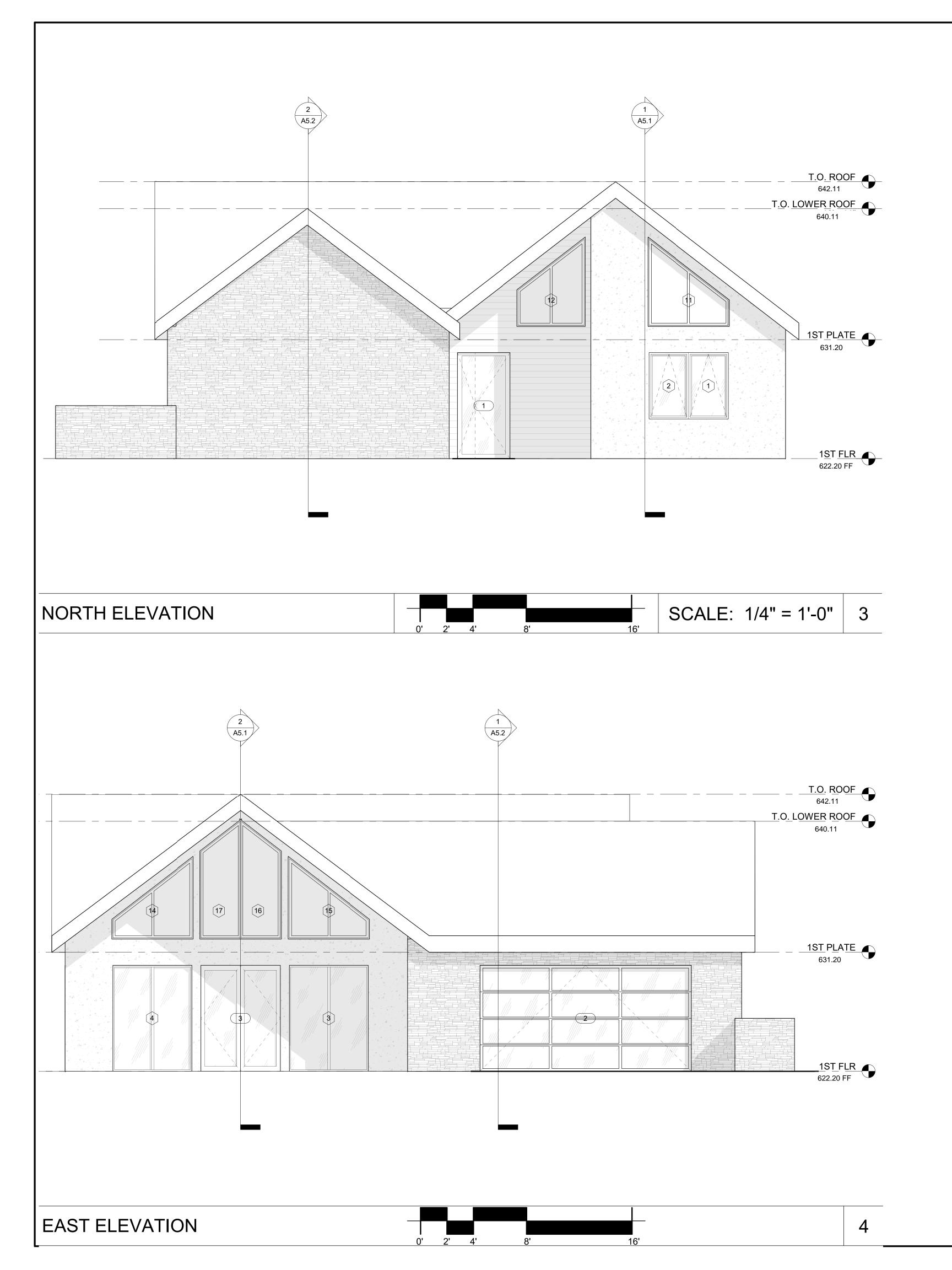
SHEET TITLE:
ELEVATIONS

PROJECT ID:	
DATE:	MA
SCALE:	
DRAWN BY :	BARON CONSTRUCTION

A-04

OWNERSHIP:







EXTERIOR WOOD SIDING FINISH



EXTERIOR WINDOW / DOOR - TUSCANY WITH BLACK FRAME MODELS



EXTERIOR STONE TEXTURE FINISH

EMODELIN	G FUR:	
\ A/II	R.A	ОТ

WILMINGTON WAY., RESIDENCE

1014 WILMINGTON WAY., EMERALD HILLS, CA 94062

REVISION TABLE:		
\triangle		

SHEET TITLE:

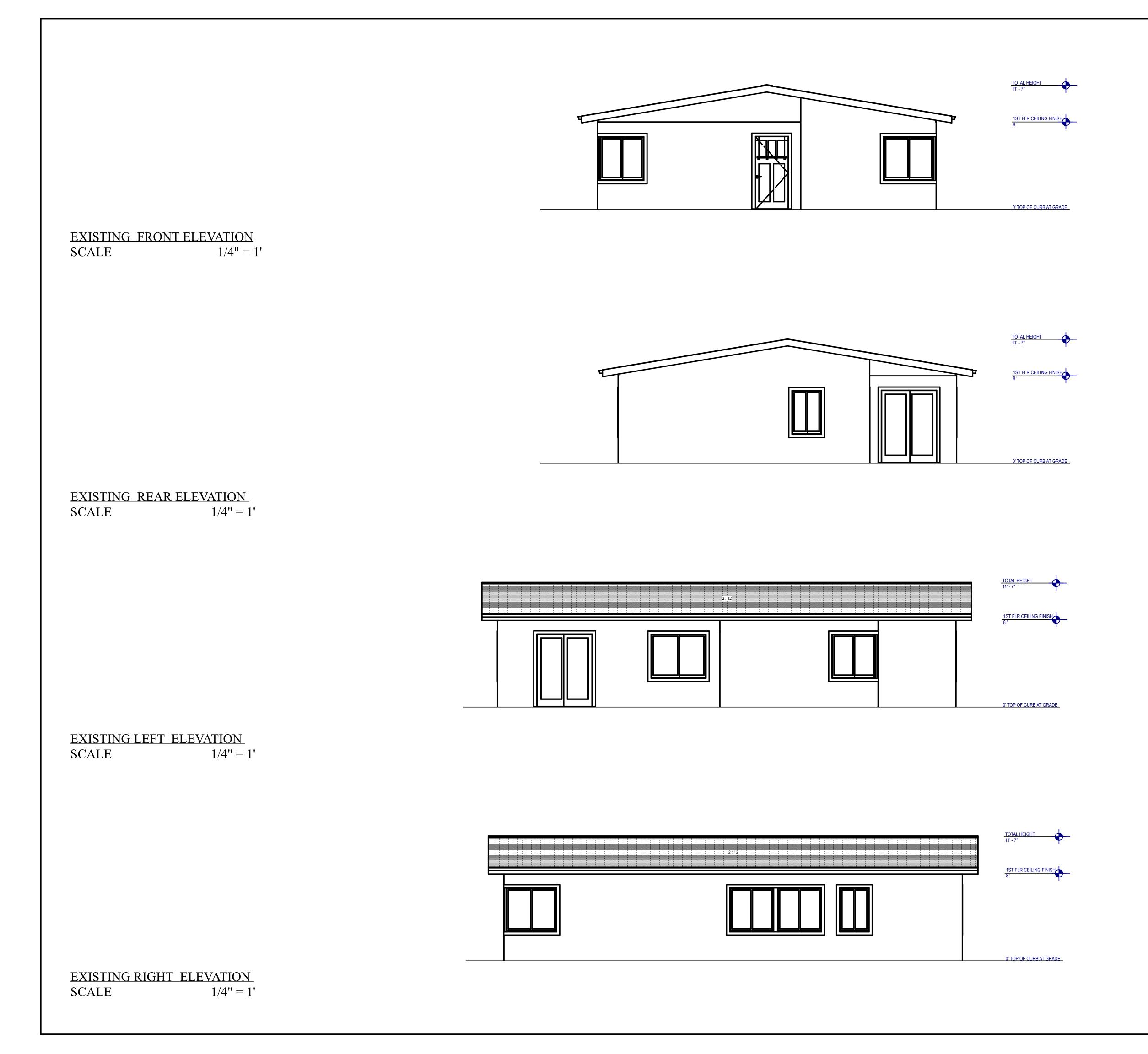
ELEVATIONS

DATE :	
SCALE:	
DRAWN BY:	BARON CONSTRUC

A-05

OWNERSHIP:





REMODELING FOR: WILMINGTON WAY., RESIDENCE 1014 WILMINGTON WAY., EMERALD HILLS, CA 94062

EXISTING ELEVATIONS

MAY 2021

PROJECT ID :

DATE :

SCALE :

DRAWN BY : BARON CONSTRUCTION (RZ)

SHEET NUMBER:



GRADING & DRAINAGE NOTES:

NOTE: THIS DRAWING IS APPROVED SUBJECT TO:

- ALL GRADING IS SUBJECT TO OBSERVATION BY THE CITY. PERMITTEE OR REPRESENTATIVE SHALL NOTIFY THE COUNTY OF SAN MATEO DEPARTMENT OF PUBLIC WORKS PROJECT INSPECTOR AT LEAST 48 HOURS BEFORE START OF ANY GRADING.
- 2. APPROVAL OF THIS PLAN APPLIES ONLY TO (A) THE EXCAVATION, PLACEMENT, AND COMPACTION OF NATURAL EARTH MATERIALS, (B) THE INSTALLATION OF ON—SITE (I.E. PRIVATE PROPERTY) STORM WATER CONVEYANCE AND TREATMENT FACILITIES THAT ARE OUTSIDE OF THE 5—FOOT BUILDING ENVELOPE, AND (C) THE INSTALLATION OF RETAINING STRUCTURES. THIS APPROVAL DOES NOT CONFER ANY RIGHTS OF ENTRY TO EITHER PUBLIC PROPERTY OR THE PRIVATE PROPERTY OF OTHERS. APPROVAL OF THIS PLAN ALSO DOES NOT CONSTITUTE APPROVAL OF ANY IMPROVEMENTS WITH THE EXCEPTION OF THOSE LISTED ABOVE. PROPOSED IMPROVEMENTS, WITH THE EXCEPTION OF THOSE LISTED ABOVE, ARE SUBJECT TO REVIEW AND APPROVAL BY THE RESPONSIBLE AUTHORITIES AND ALL OTHER REQUIRED PERMITS SHALL BE OBTAINED.
- 3. UNLESS OTHERWISE NOTED ON THE PLAN, ANY DEPICTION OF A RETAINING STRUCTURE ON THIS PLAN SHALL NOT CONSTITUTE APPROVAL FOR CONSTRUCTION OF THE RETAINING STRUCTURE UNLESS A SEPARATE STRUCTURAL REVIEW, BY THE DEPARTMENT OF PUBLIC WORKS IS COMPLETED AND APPROVED.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE OR AGENT TO IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND FACILITIES.
- THE PERMITTEE OR AGENT SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHTS—OF—WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
- 6. ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MANAGEMENT DISTRICT FOR AIRBORNE PARTICULATES.
- 7. IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT—RELATED CONSTRUCTION SHOULD CEASE WITHIN A 100—FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA, NOTIFY THE MARIN COUNTY CORONER IMMEDIATELY.
- 8. THIS PLAN DOES NOT APPROVE THE REMOVAL OF TREES. APPROPRIATE TREE REMOVAL PERMITS AND METHODS OF TREE PRESERVATION SHOULD BE OBTAINED FROM THE CITY'S PLANNING DEPARTMENT AND THE CITY ARBORIST.
- 9. FOR NON-RESIDENTIAL PROJECTS, ANY NON-HAZARDOUS EXPORT RESULTING FROM PROJECT RELATED EXCAVATION OR LAND CLEARING SHALL BE 100% REUSED AND RECYCLED PER CALIFORNIA GREEN BUILDING STANDARDS CODE SECTION 5.408.
- 10. ALL GRADING WORK SHALL CONFORM TO THE RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL REPORT AND/OR THE PROJECT SOIL ENGINEER. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOIL ENGINEER. REPORT DATE:

 REPORT NUMBER:

 SOILS ENGINEERING COMPANY:
- SOILS ENGINEERING COMPANY CONTACT INFORMATION:
- 11. THE SOIL ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND/OR UNAPPROVED GRADING WORK SHALL BE REMOVED AND REPLACED UNDER OBSERVATION.
- 12. PERIMETER BUILDING GRADES SHALL SLOPE AWAY FROM BUILDINGS AT LEAST 5%
- 13. ALL DOWNSPOUTS SHALL HAVE SPLASH BOXES AS SHOWN ON THE GRADING AND DRAINAGE PLAN. DIRECTION OF THE FLOW SHALL BE AWAY FROM THE BUILDING.

• BENCH MARK

DESCRIPTION: ASSUMED BENCHMARK, UTILITY POLE ON STREET, NEAR THE NORTHERLY CORNER OF LOT AS SHOWN:
PROJECT BENCHMARK 614.27' (NAVD88 DATUM)

EARTH WORK QUANTITIES

CUT: <u>351 CY</u> FILL: <u>206 CY</u>

EXPORT: 145 CY
IMPORT: 0 CY

NOTE: EARTHWORK QUANTITIES SHOWN ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INDEPENDENTLY ESTIMATE

QUANTITIES FOR HIS/HER OWN USE.
THE PAD OF THE HOUSE IS NOT INCLUDED

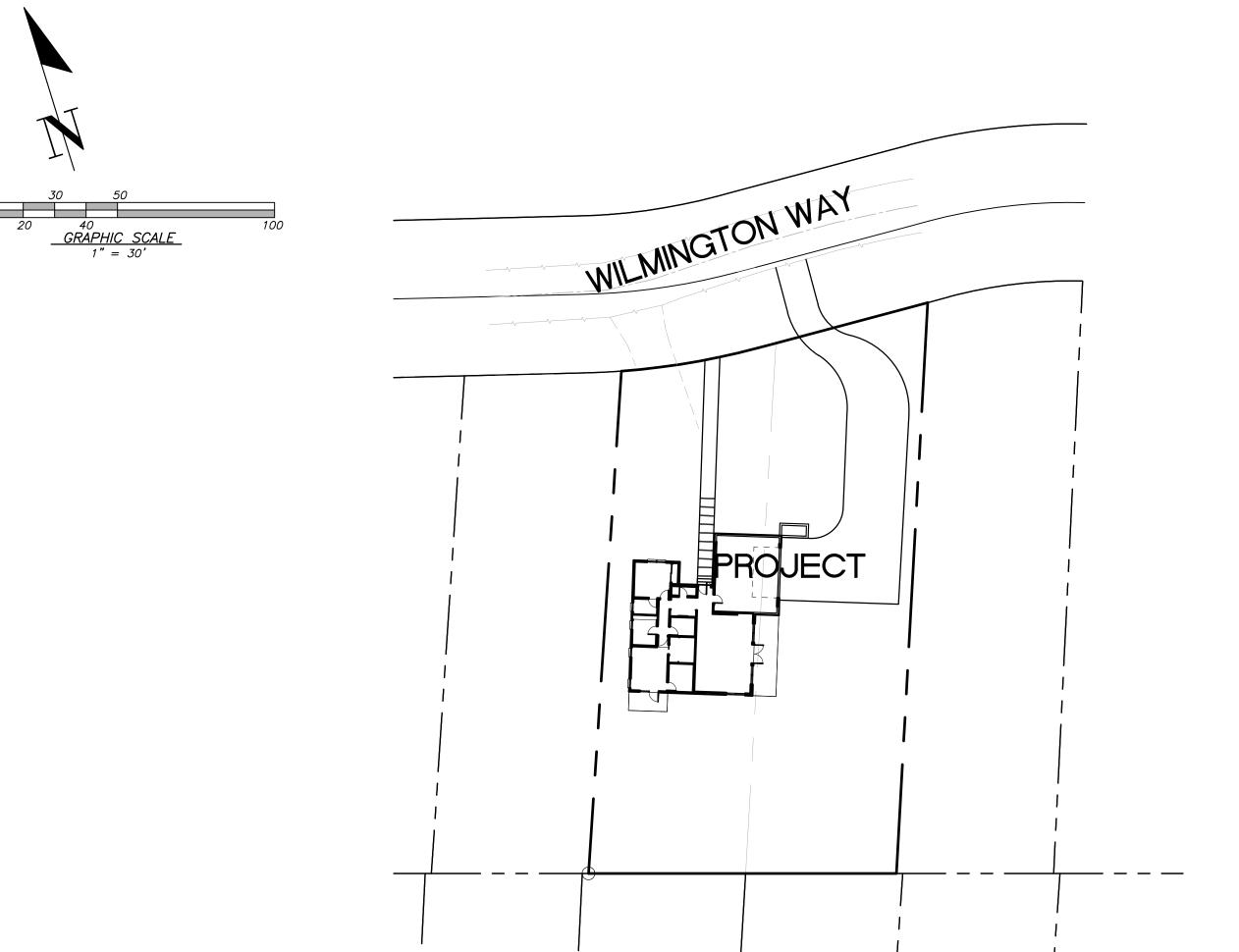
ABBREVATIONS

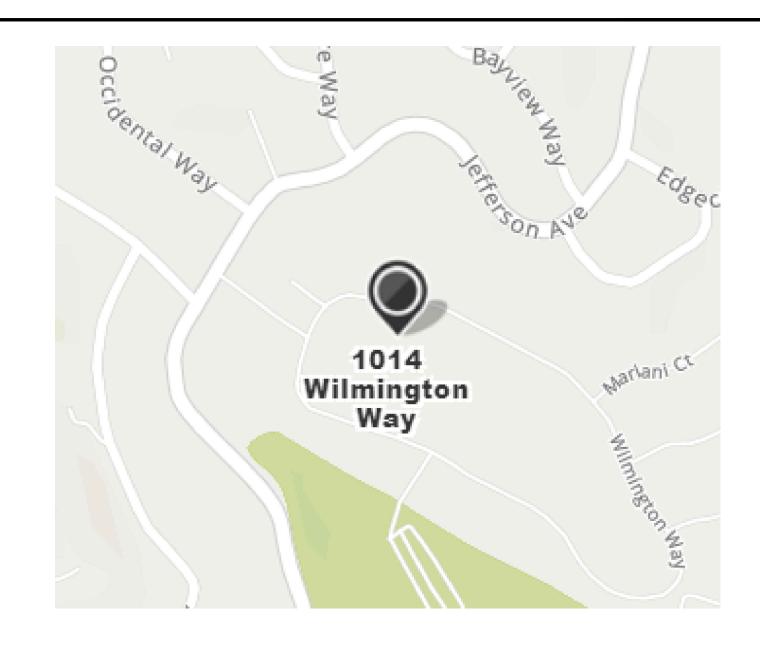
		
BC = BEGIN CURVE BS = BOTTOM OF STAIR BU = BUBBLE UP BVC = BEGIN VERTICAL CUBBRW = BOTTOM OF RETAINED CB = CATCH BASIN CL = CENTERLINE CO = CLEANOUT	FOUNDATION RVE GRADE AT WALL PLASH BOX VE	LP = LOW POINT PAD = PAD ELEVATION PCC = PORTLAND CEMENT CONCRETE PL = PROPERTY LINE PV = PAVEMENT GRADE PVC = POLYVINYL CHLORIDE PIPE PVI = POINT OF VERTICAL INTERSECTI RCP = REINFORCED CONCRETE PIPE ROW = RIGHT OF WAY S=.004> SLOPE SD = STORM DRAIN SDMH = STORM DRAIN MANHOLE SG = SUBGRADE ELEVATION SS = SANITARY SEWER SSMH = SANITARY SEWER MANHOLE STA = STATION TC = TOP OF CURB TF = TOP OF FENCE TRW = TOP OF RETAINED GRADE AT TS = TOP OF STAIR TW = TOP OF WALL VCP = VITRIFIED CLAY PIPE WM = WATER METER WV = WATER VALVE

GRADING AND DRAINAGE PLAN

1014 WILMINGTON WAY, EMERALD HILLS, CA 94062

APN: 068-212-030



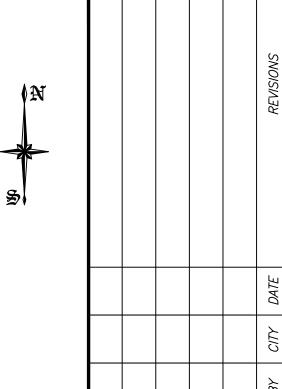


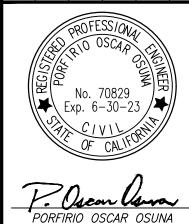
LOCATION MAP

LEGEND

DESCRIPTION	SYMBOL
BOUNDARY LINE	
LOT LINE	
EASEMENT LINE	
SIDEWALK	
WOOD FENCE	— X— X—
CHAIN LINK FENCE	
RETAINING WALL	
DRIVEWAY DRAIN INLET	
AREA DRAIN	⊕
DROP INLET	Ě
MONUMENT	<u> </u>
FIRE HYDRANT	<u> </u>
ELECTROLIER	
WATER METER	
AC UNIT	\boxtimes
SANITARY SEWER LATERAL	•— — —
STORM DRAIN	SD
SANITARY SEWER	—— ss ——
STREET LIGHT CONDUITS	—— SL ——
WATER	—— w ——
JOINT TRENCH	——— JT ———
HOUSE SERVICE	—— svc——
SLOPE ARROW	
EXISTING CONTOUR	- — - 100 - — -
PROPOSED CONTOUR	
OVERLAND RELEASE	
DIRECTION OF SURFACE DRAINIAGE	
5% SLOPE AWAY FROM BUILDING	<i>>></i>
GAS LINE	GAS
OVERHEAD ELECTRICAL LINE	——OE———
UNDERGROUND ELECTRICAL LINE	——UE———
DOWNSPOUTS W/SPLASH BOX TREE TO BE REMOVED	-
ADJECENT GRADE	AG
AGGREGATE BASE (AB)	
ASPHALT PAVEMENT (AC)	
CENTER LINE	
EDGE OF PAVEMENT	

SHEET INDEX	
COVER SHEET	CO
GRADING AND DRAINAGE PLAN	CI
CONSTRUCTION DETAILS	C2
EROSION AND SEDIMENT CONTROL PLAN	С3
BEST MANAGEMENT PRACTICES (BMP SHEET)	C4







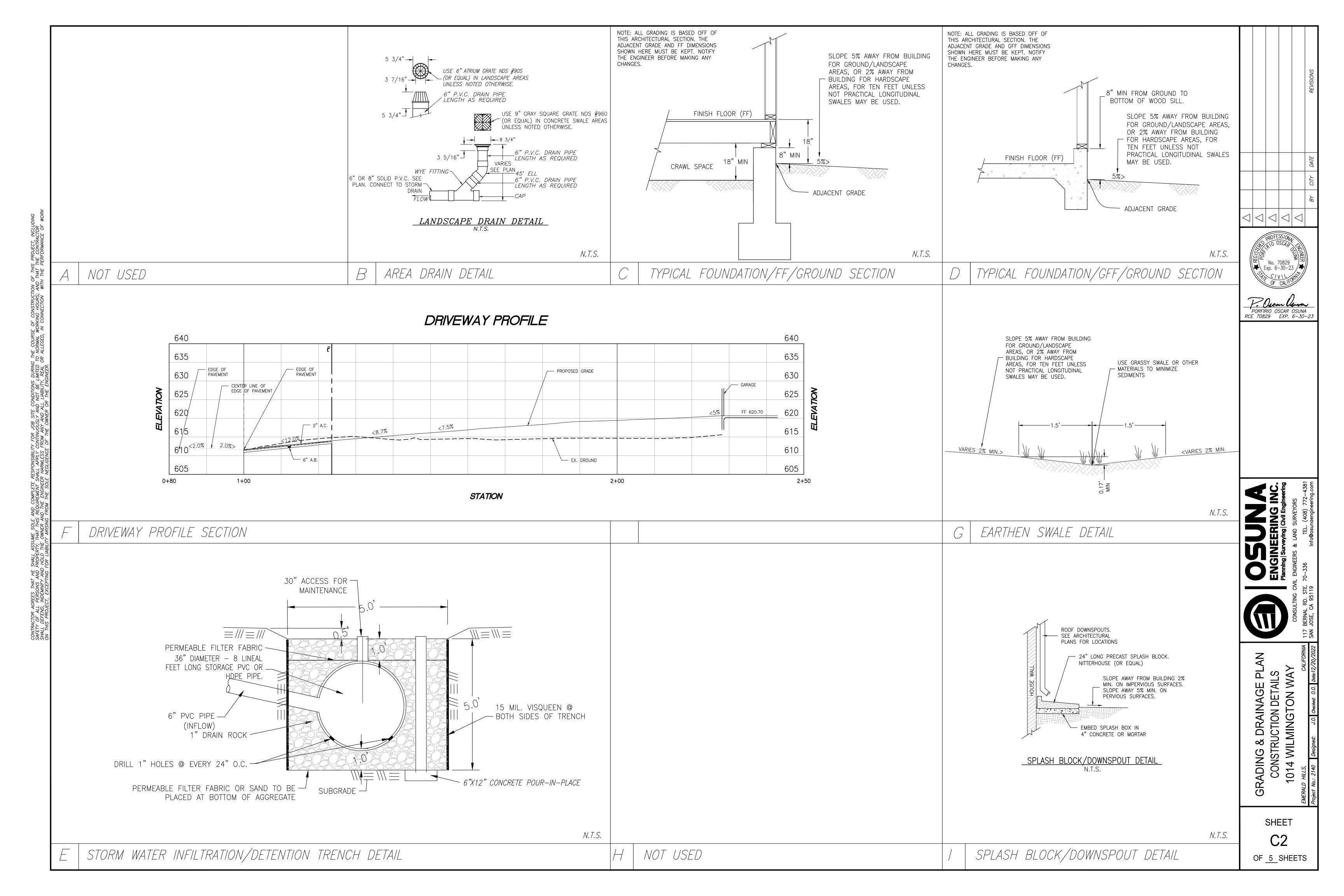
ENGINEE Planning | Surveyin NSULTING CIVIL ENGINEERS & LAN IAL RD. STE. 70-336

CONSULTING CIV

GRADING & DRAINAGE PLA COVER SHEET 1014 WILMINGTON WAY

EWERALD TABLES

C0
OF 5 SHEETS



DURING THE TO THE REAL OR

EROSION & SEDIMENT CONTROL NOTES 1. NOT USED

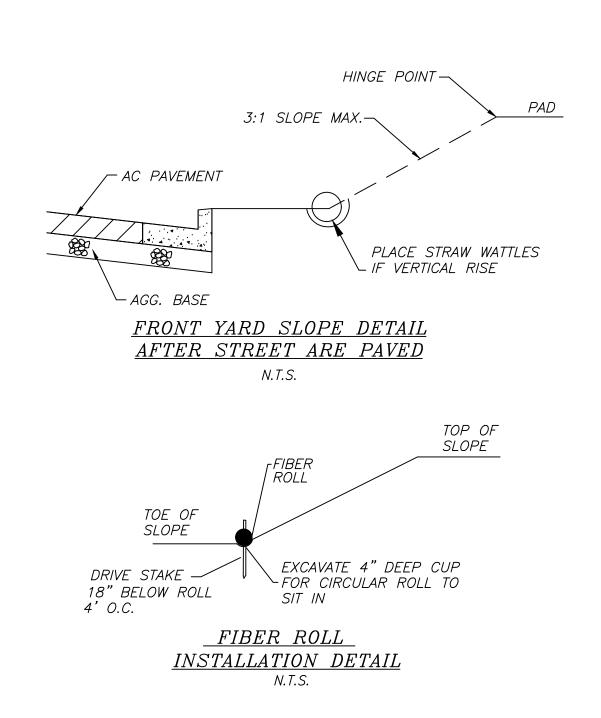
- 2. THE DEVELOPER IS RESPONSIBLE FOR ENSURING THAT ALL CONTRACTORS AND SUBCONTRACTORS ARE AWARE OF ALL STORM WATER QUALITY MEASURES AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTION BEST MANAGEMENT PRACTICES WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, AND/OR STOP ORDERS.
- 3. ANY VEHICLE OR EQUIPMENT WASHING/STEAM CLEANING MUST BE DONE AT AN APPROPRIATELY EQUIPPED FACILITY WHICH DRAINS TO THE SANITARY SEWER. OUTDOOR WASHING MUST BE MANAGED IN SUCH A WAY THAT THERE IS NO DISCHARGE OF SOAPS, SOLVENTS, CLEANING AGENTS OR OTHER POLLUTANTS TO THE STORM DRAINS. WASH WATER SHALL DISCHARGE TO THE SANITARY SEWER, SUBJECT TO REVIEW AND APPROVAL OF UNION SANITARY DISTRICT.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LITTER CONTROL AND SWEEPING OF ALL PAVED SURFACES DURING CONSTRUCTION.
- 5. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 1 TO APRIL 15. EROSION CONTROL MEASURES ARE TO BE FUNCTIONAL PRIOR TO OCTOBER 1ST OF ANY YEAR GRADING OPERATIONS HAVE LEFT AREAS UNPROTECTED FROM EROSION.
- 6. ALL ON-SITE STORM DRAINS SHALL BE CLEANED IMMEDIATELY BEFORE THE START OF THE RAINY SEASON BEGINNING ON OCTOBER 1ST EACH YEAR, SUBJECT TO THE REVIEW OF THE BUILDING/ENGINEERING INSPECTOR.
- 7. IF RAINY WEATHER BECOMES IMMINENT, GRADING OPERATIONS SHALL BE STOPPED AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PROTECT DISTURBED AREAS.
- 8. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.
- 9. CONSTRUCTION ENTRANCES SHALL CONSIST OF A MINIMUM 8" THICK LAYER OF 3"-4" FRACTURED STONE AGGREGATE UNLAID WITH GEOTEXTILE LINER FOR A MINIMUM DISTANCE OF 50 FEET, AND IS TO BE PROVIDED AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. THE DEPTH AND LENGTH OF AGGREGATE MAY NEED TO BE ADJUSTED IN THE FIELD TO ENSURE NO TRACKING OF SEDIMENT ONTO EXISTING PAVED STREETS. CONSTRUCTION ENTRANCES SHALL SLOPE AWAY FROM EXISTING PAVED STREETS.
- 10. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL MEASURES ARE TO BE BLOCKED UNLESS THE AREA DRAINED IS UNDISTURBED OR STABILIZED.
- 11. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTORL MEASURES TO THE SATISFACTION OF THE CITY ENGINEER.
- 12. NO STRAW BALES OR SILT FENCES SHALL BE USED AS EROSION CONTROL MEASURES. SILT FENCES MAY ONLY BE USED AS A PHYSICAL BARRIER TO PREVENT VEHICULAR AND PEDESTRIAN TRAFFIC FROM USING NON-APPROVED ACCESS POINTS (E.G. ALONG RIGHT-OF-WAY).
- 13. ALL DISTURBED AREAS INCLUDING FLAT PADS ARE TO BE TREATED WITH STRAW AND TACKIFIER AT A RATE OF 2 TONS PER ACRE APPROXIMATELY 3 INCHES THICK.

SUPPLEMENTAL EROSION & SEDIMENT CONTROL NOTES

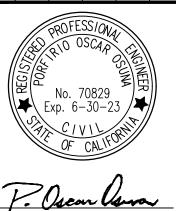
1. SEE STANDARD EROSION & SEDIMENT CONTROL NOTES ABOVE.

N.T.S.

- 2. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 1 TO APRIL 30. FACILITIES ARE TO BE OPERABLE PRIOR TO OCTOBER 1 OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDED SLOPES SHALL BE PROTECTED WITH <u>EROSION CONTROL</u> MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPES.
- 3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCE WAYS.
- 4. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE CITY.
- 5. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT.
- 6. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. NOTIFY THE CITY REPRESENTATIVE OF ANY FIELD CHANGES.



SO A 250 O A B CITY DATE REVISIONS



PORFIRIO OSCAR OSUNA RCE 70829 EXP. 6-30-23

NC.
Neering
S
2-4381

ENGINEERING IN Planning | Surveying | Civil Engine

CONSULTING CIVIL ENGI

& DRAINAGE PLA SION CONTROL LMINGTON WAY

ERUSION CONT 1014 WILMINGTO

Taahs

C3
OF 5 SHEETS

ADING

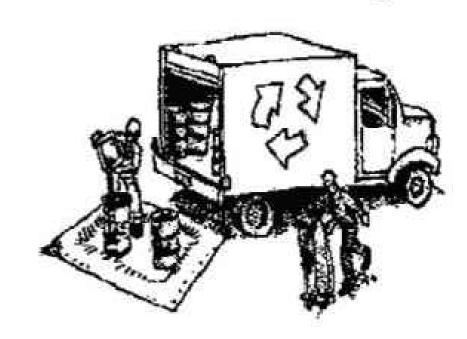


Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Clean Water, Healthy Community.

Materials & Waste Management



Non-Hazardous Materials

- ☐ Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within
- ☐ Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- ☐ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- ☐ Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- ☐ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ☐ Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- ☐ Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- ☐ Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- ☐ Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- ☐ Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- ☐ Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- ☐ Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- ☐ Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



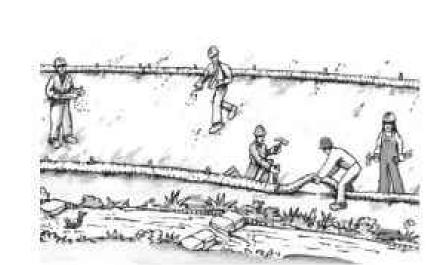
Maintenance and Parking

- Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- ☐ Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- ☐ If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan or drop cloths big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- ☐ If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, or steam cleaning equipment.

Spill Prevention and Control

- ☐ Keep spill cleanup materials (e.g., rags, absorbents and cat litter) available at the construction site at all times.
- ☐ Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- ☐ Clean up spills or leaks immediately and dispose of cleanup materials properly.
- Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- ☐ Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- ☐ Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthmoving



- Schedule grading and excavation work during dry weather.
- ☐ Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- ☐ Remove existing vegetation only when absolutely necessary, and seed or plant vegetation for erosion control on slopes or where construction is not immediately
- Prevent sediment from migrating offsite and protect storm drain inlets, gutters, ditches, and drainage courses by installing and maintaining appropriate BMPs, such as fiber rolls, silt fences, sediment basins, gravel bags, berms, etc.
- Keep excavated soil on site and transfer it to dump trucks on site, not in the streets.

Contaminated Soils

- If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
- Unusual soil conditions, discoloration. or oder.
- Abandoned underground tanks.
- Abandoned wells
- Buried barrels, debris, or trash.

Paving/Asphalt Work



- Avoid paving and seal coating in wet weather or when rain is forecast, to prevent materials that have not cured from contacting stormwater runoff.
- Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- ☐ Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- ☐ Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

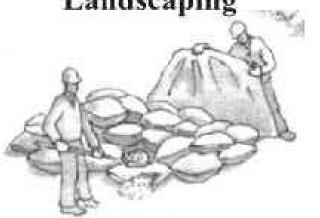
- ☐ Protect nearby storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or gravel bags to keep slurry out of the storm drain system.
- ☐ Shovel, abosorb, or vacuum saw-cut slurry and dispose of all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ☐ If sawcut slurry enters a catch basin, clean it up immediately.

Concrete, Grout & Mortar



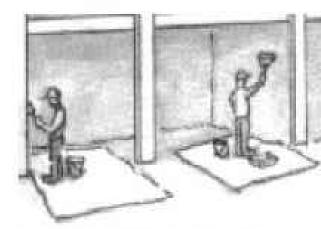
- ☐ Store concrete, grout, and mortar away from storm drains or waterways, and on pallets under cover to protect them from rain, runoff, and wind.
- ☐ Wash out concrete equipment/trucks offsite or in a designated washout area, where the water will flow into a temporary waste pit, and in a manner that will prevent leaching into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as
- ☐ When washing exposed aggregate, prevent washwater from entering storm drains. Block any inlets and vacuum gutters, hose washwater onto dirt areas, or drain onto a bermed surface to be pumped and disposed of properly.

Landscaping



- ☐ Protect stockpiled landscaping materials from wind and rain by storing them under tarps all year-round.
- Stack bagged material on pallets and under cover.
- ☐ Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

Painting & Paint Removal



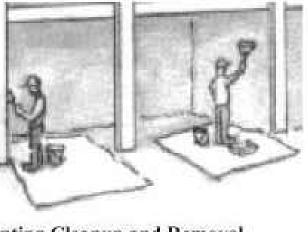
Painting Cleanup and Removal

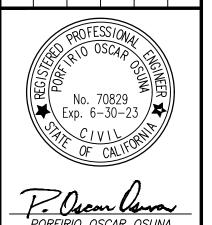
- ☐ Never clean brushes or rinse paint containers into a street, gutter, storm drain, or stream.
- ☐ For water-based paints, paint out brushes to the extent possible, and rinse into a drain that goes to the sanitary sewer. Never pour paint down a storm drain.
- ☐ For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of excess liquids as hazardous waste.
- ☐ Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.
- ☐ Chemical paint stripping residue and chips and dust from marine paints or paints containing lead, mercury, or tributyltin must be disposed of as hazardous waste. Lead based paint removal requires a statecertified contractor.

Dewatering



- Discharges of groundwater or captured runoff from dewatering operations must be properly managed and disposed. When possible send dewatering discharge to landscaped area or sanitary sewer. If discharging to the sanitary sewer call your local wastewater treatment plant.
- ☐ Divert run-on water from offsite away from all disturbed areas.
- ☐ When dewatering, notify and obtain approval from the local municipality before discharging water to a street gutter or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known or suspected contamination, call your local agency to determine whether the ground water must be tested. Pumped groundwater may need to be collected and hauled off-site for treatment and proper disposal.







PLAN DRAINAGE I GRADING

0

SHEET

OF 5 SHEETS

Storm drain polluters may be liable for fines of up to \$10,000 per day!

WILMINGTON VICINITY MAP

OWNER'S INFORMATION

KATHERINE CHAPPELEAR 1014 WILMINGTON WAY EMERALD HILLS, CA

APN: 068-212-030

REFERENCES

- THIS SANITARY SEWER PLAN IS SUPPLEMENTAL TO: TOPOGRAPHIC SURVEY BY OSUNA ENGINEERING INC., 1014 WILMINGTON WAY EMERALD HILLS, CA DATED: 11-08-21
- 2. PROPOSED SITE PLAN BY OSUNA ENGINEERING INC., "GRADING & DRAINAGE PLAN" 1014 WILMINGTON WAY EMERALD HILLS, CA DATED: 08-26-21

THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND PROPOSED ITEMS ACCORDING TO THEM.

SANITARY SEWER IMPROVEMENT AREA ELECTRIC METER-FF 622.20 (N) GARAGE SEE GRADING & DRAINAGE PLAN PREPARED BY OSUNA **ENGINEERING** (N) HOUSE ADDITION SEE GRADING & DRAINAGE PLAN PREPARED BY OSUNA **ENGINEERING** 574°01'30"E 50.01' R1 S74°01'30"E 50.00' R1 KEY MAP

1" = 20'

ABBREVIATIONS

○ SSCO

O BFP

o BIBB

AGGREGATE BASE

LENGTH

LANDING

MAXIMUM

LINEAR FEET

LNDG

O SSCO

O BFP

o BIBB

X

SANITARY SEWER CLEANOUT

CHECK VALVE HOSE BIBB

STORM DRAIN MANHOLE

SANITARY SEWER MANHOLE

AREA DRAIN

CURB INLET

FIRE HYDRANT

STREET SIGN

SPOT ELEVATION

FLOW DIRECTION

BENCHMARK

CONTOURS

MANHOLE

WATER METER

WELDED WIRE FABRIC

DEMOLISH/REMOVE

TREE TO BE REMOVED

SANITARY SEWER BACKFLOW PREVENTER

ASPHALT CONCRETE MINIMUM ACC **ACCESSIBLE** MONUMENT METER RELEASE OUTLET AREA DRAIN BEGINNING OF CURVE **BEARING & DISTANCE** NUMBER BACKFLOW DEVICE NTS NOT TO SCALE BENCHMARK ON CENTER BW/FG BOTTOM OF WALL/FINISH PLANTING AREA CATCH BASIN PEDESTRIAN C & G CURB AND GUTTER POST INDICATOR VALVE CENTER LINE PUBLIC SERVICES EASEMENT CORRUGATED PLASTIC PIPE PROPERTY LINE (SMOOTH INTERIOR) POWER POLE CLEANOUT PUBLIC UTILITY EASEMENT COTG CLEANOUT TO GRADE POLYVINYL CHLORIDE CONC CONCRETE RADIUS CONST CONSTRUCT or -TION REINFORCED CONCRETE PIPE CONC COR CONCRETE CORNER RIM ELEVATION CUBIC YARD RAINWATER DIAMETER RIGHT OF WAY DROP INLET SLOPE **DUCTILE IRON PIPE** SEE ARCHITECTURAL DRAWNGS SANITARY END OF CURVE STORM DRAIN **EXISTING GRADE** STORM DRAIN MANHOLE ELEVATIONS **EDGE OF PAVEMENT** SEE LANDSCAPE DRAWINGS **EQUIPMENT** SPECIFICATION EACH WAY SANITARY SEWER **EXISTING** SANITARY SEWER CLEANOUT FACE OF CURB SANITARY SEWER MANHOLE FINISHED FLOOR STREET FINISHED GRADE STATION FIRE HYDRANT STD STANDARD FLOW LINE STEP SEPTIC TANK EFFLUENT PUMP FINISHED SURFACE STRUCTURAL TELEPHONE GAGE OR GAUGE TOP OF CURB GRADE BREAK TEMPORARY HDPE HIGH DENSITY CORRUGATED TOP OF PAVEMENT POLYETHYLENE PIPE TOP OF WALL/FINISH GRADE HORIZONTAL HI PT HIGH POINT VERTICAL CURVE H&T HUB & TACK VITRIFIED CLAY PIPE INSIDE DIAMETER **VERT** VERTICAL INVERT ELEVATION JUNCTION BOX WEST BAY SANITARY DISTRICT JOINT TRENCH WATER LINE JOINT UTILITY POLE

GENERAL NOTES:

- 1. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICES ALERT (U.S.A.) 800-642-2444 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION WORK TO VERIFY ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES.
- 2. CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR THE SITE CONDITIONS.
- 3. CONTRACTOR IS TO VERIFY WORK IN FIELD AND SHALL SATISFY HIMSELF AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF CONSTRUCTION.
- 4. WORK SHALL NOT BEGIN UNTIL ADEQUATE TEMPORARY BARRICADES, BARRIERS, FENCES, WARNING SIGNS, LIGHTS, OR OTHER SUCH TRAFFIC AND PEDESTRIAN WARNING AND CONTROL DEVICES ARE IN PLACE.
- 5. ALL TRENCHING OPERATIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 8 (OSHA)
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE ON OR OFF THE PROJECT SITE AS A RESULT OF LACK OF DUST CONTROL.
- 7. CONTRACTOR SHALL REPLACE OR REPAIR. AT HIS OWN EXPENSE. ALL DAMAGED IMPROVEMENTS OR FEATURES TO THEIR ORIGINAL CONDITIONS, WHETHER SPECIFICALLY INDICATED ON THE PLANS OR NOT.
- 8. CONTRACTOR SHALL PREPARE A SUITABLE GRADE FOR ALL UNDERGROUND UTILITY INSTALLATIONS AND SHALL BE RESPONSIBLE FOR ALL UTILITY TRENCH SPOILS AND SHALL RESTORE THE GRADE UPON THE COMPLETION OF UNDERGROUND WORK.

- 9. ALL STREETS ARE TO BE KEPT CLEAN OF DIRT AND/OR OTHER DEBRIS GENERATED BY THE GRADING AND DIRT HAULING OPERATIONS.
- 10. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH THE TOWN AND WBSD
- 11. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE, RUBBISH, AND DEBRIS OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
- 12. DURING THE COURSE OF THE PROJECT, THE CONTRACTOR SHALL KEEP A RECORD OF ALL CONSTRUCTION CHANGES ON A SET OF APPROVED PROJECT PLANS FOR THE ENGINEER.
- 13. CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY, AND CITY LAWS AND ORDINANCES; AND REGULATIONS OF THE DEPT. OF INDUSTRIAL RELATIONS, OSHA, AND INDUSTRIAL ACCIDENT COMMISSION RELATIONS TO SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL.
- 14. THE PROPOSED CONSTRUCTION OPERATION WILL TAKE PLACE AT OR NEAR FENCE LINES, PROPERTY LINES AND PROPERTY IMPROVEMENTS THAT SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OPERATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY THESE AREAS PRIOR TO BEGINNING CONSTRUCTION.

NOTE: FOR CONSTRUCTION STAKING SCHEDULING OR QUOTATIONS PLEASE CONTACT ALEX ABAYA AT LEA & BRAZE ENGINEERING (510)887-4086 EXT 116. aabaya@leabraze.com



INDEX TITLE SHEET C - 2.0C - 3.0

SANITARY SEWER PLAN **DETAILS** NOTES & SPECIFICATIONS C - 4.0

 \mathbb{Z} WA FOJ

 \mathcal{O}

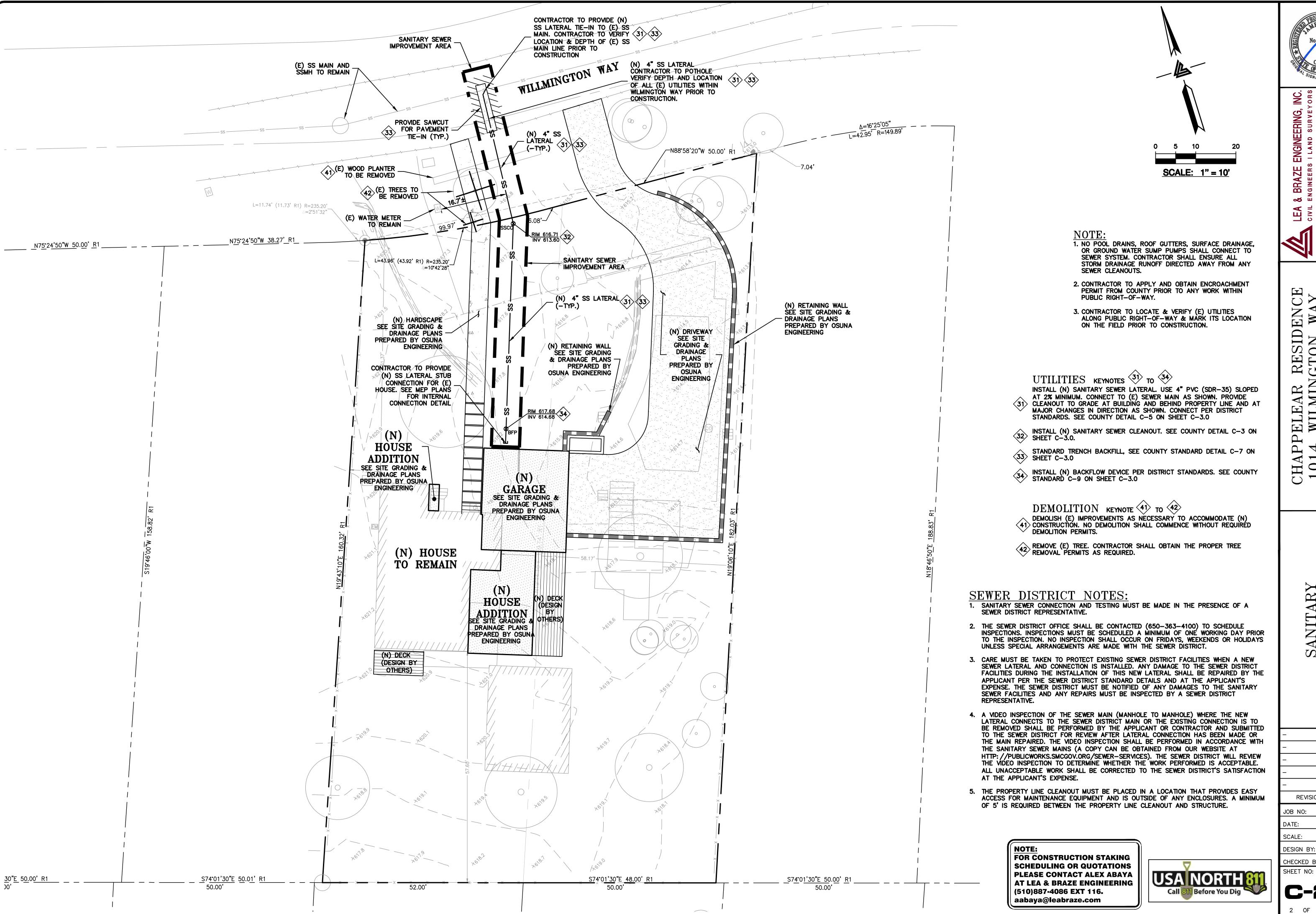
H

REVISIONS 2211903 JOB NO: 2-15-22 AS NOTED SCALE: DESIGN BY: AV

OF 4 SHEETS

CHECKED BY: JC/JV

SHEET NO:





LEA c iv il

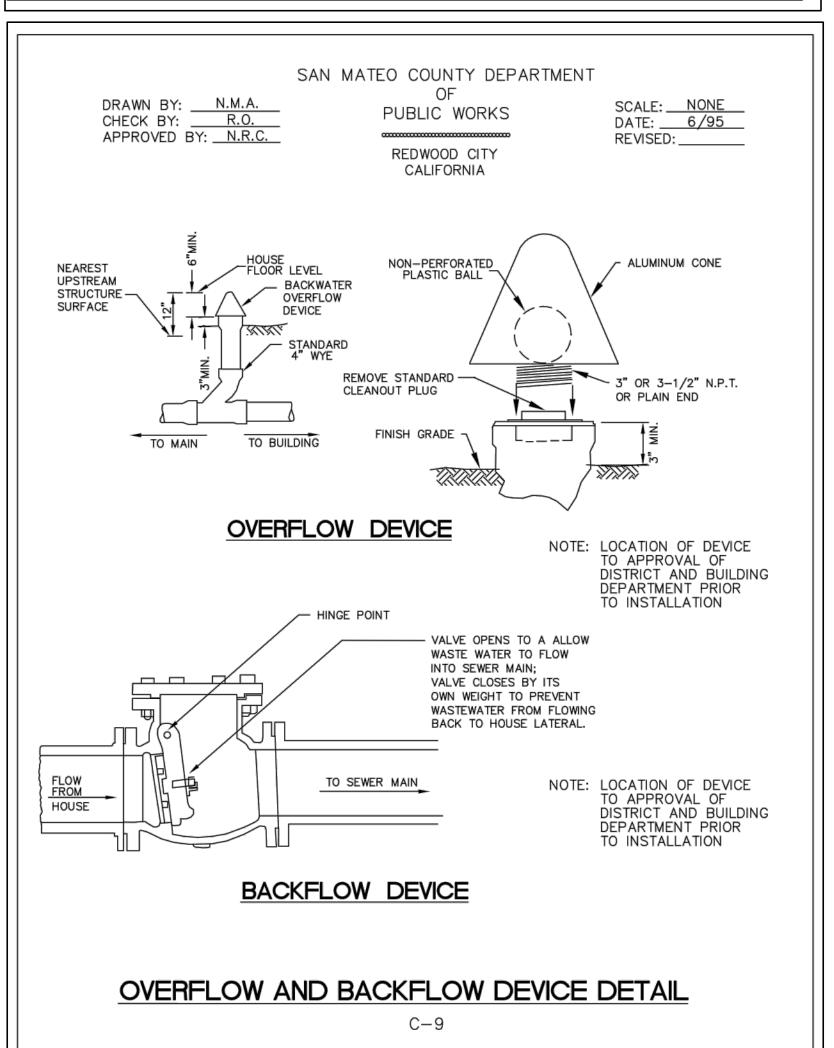
IA WAY [FORN] RES GTO LEAR TILMIN(HILLS,

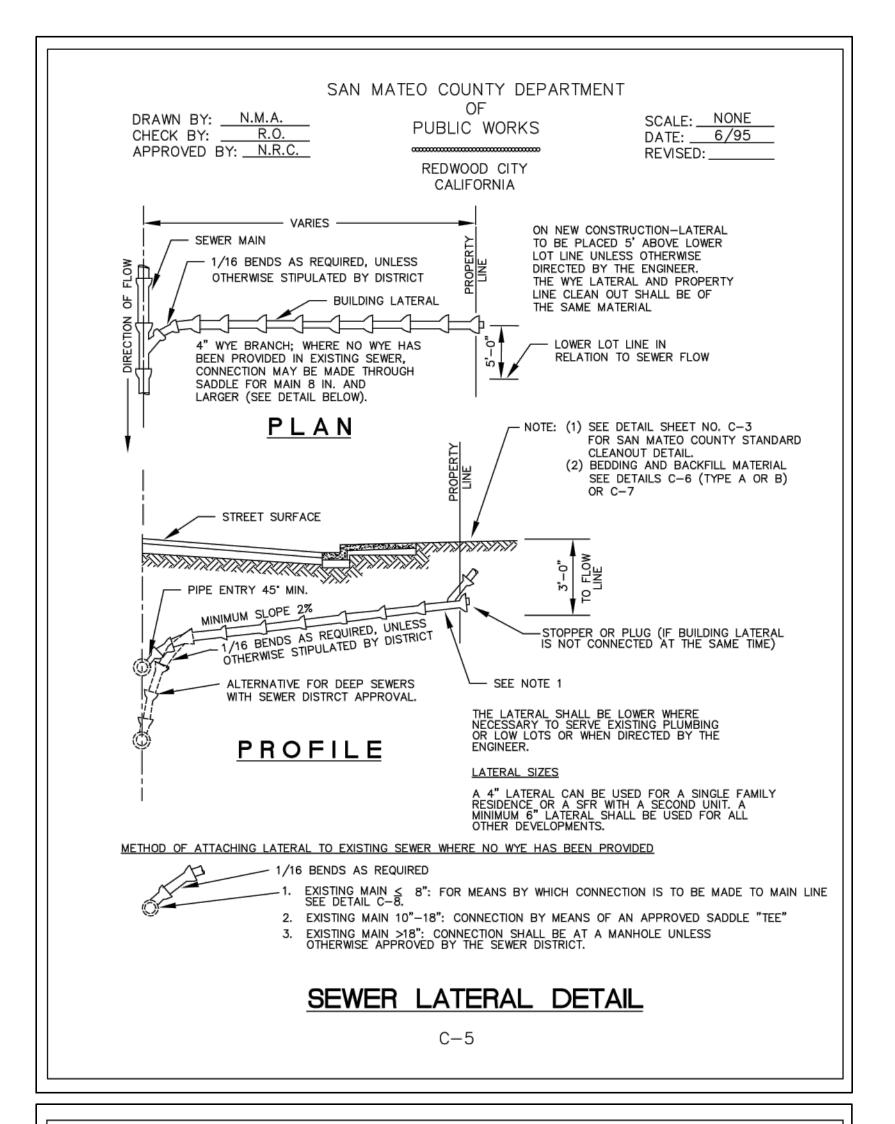
EM

AR PL IT SAN WEI N E

REVISIONS JOB NO: 2211903 2-15-22

AS NOTED DESIGN BY: AV CHECKED BY: JC/JV





SAN MATEO COUNTY DEPARTMENT OF DRAWN BY: N.M.A. SCALE: NONE PUBLIC WORKS CHECK BY: R.O. DATE: ____6/95__ APPROVED BY: N.R.C. REVISED: _____ REDWOOD CITY CALIFORNIA

SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

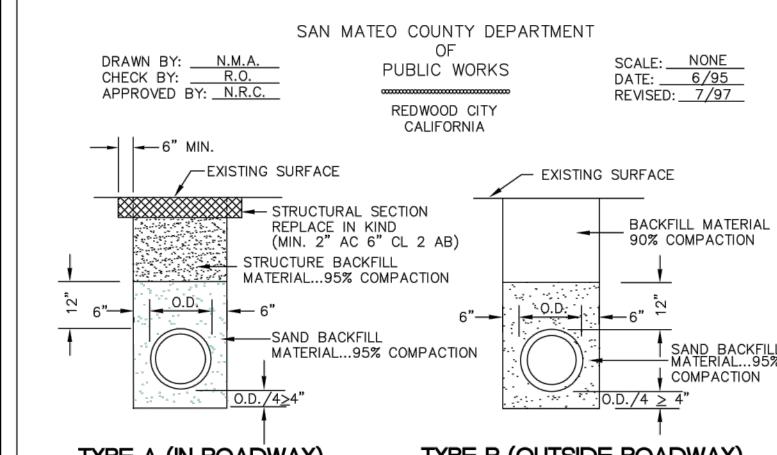
GENERAL NOTES

- 1. ALL REFERENCES TO "DISTRICT" IN THESE GENERAL NOTES SHALL MEAN THE APPROPRIATE COUNTY SEWER OR SANITATION DISTRICT.
- 2. THE APPROVAL OF THESE PLANS BY THE DISTRICT SHALL BE INTERPRETED TO MEAN THAT THE SANITARY SEWER DESIGN SHOWN ON THESE PLANS MEETS THE DISTRICT'S STANDARDS. THE DISTRICT'S APPROVAL IN NO WAY GUARANTEES ANY OTHER ASPECT OF THIS PLAN OR ITS ACCURACY RELATIVE TO ACTUAL FIELD CONDITIONS.
- 3. THE CONTRACTOR SHALL CONTACT THE DISTRICT AT 363-4765 OR 363-4100 TWO (2) WOKING DAYS IN ADVANCE OF BEGINNING ANY SANITARY SEWER WORK. THE CONTRACTOR SHALL THEREAFTER KEEP THE INSPECTOR FOR THE DISTRICT INFORMED OF HIS SCHEDULE FOR SANITARY SEWER WORK.
- 4. ALL SANITARY SEWER WORK CONSTRUCTED WITHOUT INSPECTION BY THE DISTRICT SHALL BE REMOVED AND RECONSTRUCTED WITH INSPECTION.
- 5. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING ANY WORK.
- 6. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES BEFORE BEGINNING ANY EXCAVATING.
- THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED BY THE COUNTY OR CITY BEFORE BEGINNING ANY SANITARY SEWER WORK.
- 8. UPON THE COMPLETION OF CONSTRUCTION A COMPLETE SET OF REPRODUCIBLE

"AS-CONSTRUCTED" PLANS SHALL BE PROVIDED TO THE DISTRICT.

- SANITARY SEWER SERVICE SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS ARE NECESSARY (E.G. PUMPS, ETC.) TO MAINTAIN THIS
- SERVICE DURING CONSTRUCTION. 10. PRIOR TO COMMENCING ANY SANITARY SEWER WORK IN OFF-SITE EASEMENTS THE
- CONTRACTOR SHALL PROVIDE THE DISTRICT WITH ADEQUATE EVIDENCE THAT ALL AFFECTED PROPERTY OWNERS (AND TENANTS WHERE APPLICABLE) WERE NOTIFIED WELL IN ADVANCE OF THE DATE WORK IN THESE EASEMENTS WAS TO BEGIN AND THAT THEY HAVE UPDATED THAT NOTICE IN A TIMELY MANNER WHEN THOSE DATES HAVE CHANGED.

C-13



TYPE A (IN ROADWAY)

TYPE B (OUTSIDE ROADWAY)

1. SAND.... MATERIAL FREE FROM ORGANIC MATTER AND CLAY WITH A SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SIEV
No. 4	100
No. 200	0-5

2. STRUCTURE BACKFILL MATERIAL.... MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY WEIGHT AS FOLLOWS:

SIEVE SIZE	% PASSING SI
3"	100
No. 4	35-100
No. 30	20-100

BACKFILL MATERIAL MATERIAL FROM EXCAVATION, FREE FROM STONES OR LUMPS EXCEEDING 3 INCHES GREATEST DIMENSION, ORGANIC MATTER, OR OTHER UNSATISFACTORY MATERIAL.

STANDARD TRENCH BACKFILL AND BEDDING DETAIL FOR PVC SEWER PIPE

C-7

SAN MATEO COUNTY DEPARTMENT

DRAWN BY: N.M.A. CHECK BY: R.O. APPROVED BY: N.R.C. PUBLIC WORKS

SCALE: NONE DATE: 6/95 REVISED: 4/97

REDWOOD CITY CALIFORNIA

SAN MATEO COUNTY SEWER AND SANITATION DISTRICTS STANDARD SPECIFICATIONS

PIPE AND FITTINGS

POLYVINYL CHLORIDE PIPE (PVC)

- 1. ALL PIPE AND FITTINGS SHALL CONFORM TO ASTM SPECIFICATIONS D3034. SDR 35.
- ALL JOINTS SHALL BE A BELL AND SPIGOT ASSEMBLY WITH ELASTOMERIC SEALING GASKETS. SEALING GASKETS SHALL MEET THE REQUIREMENTS OF ASTM SPECIFICATION D1869. SOLVENT CEMENT JOINTS ARE NOT PERMITTED.
- ALL PIPE ENTERING OR LEAVING A CONCRETE STRUCTURE SHALL HAVE A RUBBER WATERSTOP GASKET ATTACHED TO IT. THE WATERSTOP GASKET SHALL CONFORM TO THE PIPE MANUFACTURER'S SPECIFICATIONS. THE WATERSTOP GASKET SHALL BE SEATED FIRMLY AROUND THE PIPE EXTERIOR AND BE CAST INTO THE CONCRETE STRUCTURE.
- ALL PIPE JOINTS SHALL BE MADE USING MANUFACTURED PVC COUPLINGS. BAND TYPE COMPRESSION COUPLINGS ARE NOT PERMITTED.

DUCTILE IRON PIPE (DIP)

- 1. ALL PIPE SHALL BE THICKNESS CLASS 50 (FOUR INCH PIPE SHALL BE THICKNESS CLASS 51) IN ACCORDANCE WITH ANSI SPECIFICATIONS A21.51. FITTINGS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATION A21.10.
- JOINTS SHALL BE PUSH-ON TYPE OR MECHANICAL JOINT TYPE IN ACCORDANCE WITH ANSI SPECIFICATION A21.11. RUBBER GASKETS FOR PUSH-ON JOINTS SHALL BE IN ACCORDANCE WITH ANSI SPECIFICATIONS HEREIN.
- PIPE AND FITTINGS SHALL HAVE A BITUMINOUS COATING OUTSIDE IN ACCORDANCE WITH ASTM SPECIFICATION A746-86, UNLESS OTHERWISE SPECIFIED HEREIN.
- 4. PIPE AND FITTINGS SHALL HAVE A 1/16" (ONE-SIXTEENTH INCH) CEMENT-MORTAR LINING WITH AN ASPHALTIC SEAL COAT.

VITRIFIED CLAY PIPE (VCP)

- PIPE AND FITTINGS SHALL BE EXTRA STRENGTH, UNGLAZED, BELL AND SPIGOT, CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C700.
- JOINTS SHALL BE A BELL AND SPIGOT ASSEMBLY WITH FACTORY INSTALLED FLEXIBLE COMPRESSSION TYPE GASKETS MADE OF PLASTICIZED POLYVINYL OR POLYURETHANE CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATIONS C425. BAND TYPE COUPLINGS ARE NOT ALLOW.

C-14

DESIGN BY: AV CHECKED BY: JC/JV SHEET NO:

NTS

SCALE:

CAUTION:

- 1. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT FOR LOCATION OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION—PHONE (800) 227—2600. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES PRIOR TO BEGINNING ANY WORK ON THIS SITE.
- 2. THE LOCATION, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS PLAN WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. (A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES). CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO ANY EXCAVATION OR IMPROVEMENT.
- 3. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS, METHODS OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL CITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE OWNER'S PROJECT MANAGER IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING CONTAINED.

GENERAL NOTES

ALL GENERAL NOTES, SHEET NOTES, AND LEGEND NOTES FOUND IN THESE DOCUMENTS SHALL APPLY TYPICALLY THROUGHOUT. IF INCONSISTENCIES ARE FOUND IN THE VARIOUS NOTATIONS, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING REQUESTING CLARIFICATION.

THESE DRAWINGS AND THEIR CONTENT ARE AND SHALL REMAIN THE PROPERTY OF LEA AND BRAZE ENGINEERING, INC. WHETHER THE PROJECT FOR WHICH THEY ARE PREPARED IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY ANY PERSONS ON OTHER PROJECTS OR EXTENSIONS OF THE PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ENGINEER.

ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND TRADE STANDARDS WHICH GOVERN EACH PHASE OF WORK INCLUDING, BUT NOT LIMITED TO, CALIFORNIA MECHANICAL CODE, CALIFORNIA PLUMBING CODE, CALIFORNIA ELECTRICAL CODE, CALIFORNIA FIRE CODE, CALTRANS STANDARDS AND SPECIFICATIONS, AND ALL APPLICABLE STATE AND/OR LOCAL CODES AND/OR LEGISLATION.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND ALL SUBCONTRACTORS TO CHECK AND VERIFY ALL CONDITIONS, DIMENSIONS, LINES AND LEVELS INDICATED. PROPER FIT AND ATTACHMENT OF ALL PARTS IS REQUIRED. SHOULD THERE BE ANY DISCREPANCIES, IMMEDIATELY NOTIFY THE ENGINEER FOR CORRECTION OR ADJUSTMENT THE EVENT OF FAILURE TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERROR.

ALL DIMENSIONS AND CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE JOB BY EACH SUBCONTRACTOR BEFORE HE/SHE BEGINS HIS/HER WORK. ANY ERRORS, OMISSION, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER/CONTRACTOR BEFORE CONSTRUCTION BEGINS.

COMMENCEMENT OF WORK BY THE CONTRACTOR AND/OR ANY SUBCONTRACTOR SHALL INDICATE KNOWLEDGE AND ACCEPTANCE OF ALL CONDITIONS DESCRIBED IN THESE CONSTRUCTION DOCUMENTS, OR EXISTING ON SITE. WHICH COULD AFFECT THEIR WORK.

WORK SEQUENCE

IN THE EVENT ANY SPECIAL SEQUENCING OF THE WORK IS REQUIRED BY THE OWNER OR THE CONTRACTOR, THE CONTRACTOR SHALL ARRANGE A CONFERENCE BEFORE ANY SUCH WORK IS BEGUN.

SITE EXAMINATION: THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL THOROUGHLY EXAMINE THE SITE AND FAMILIARIZE HIM/HERSELF WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. THE CONTRACTOR SHALL VERIFY AT THE SITE ALL MEASUREMENTS AFFECTING HIS/HER WORK AND SHALL BE RESPONSIBLE FOR THE CORRECTIONS OF THE SAME. NO EXTRA COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR EXPENSES DUE TO HIS/HER NEGLECT TO EXAMINE, OR FAILURE TO DISCOVER, CONDITIONS WHICH AFFECT HIS/HER WORK.

LEA AND BRAZE ENGINEERING, INC. EXPRESSLY RESERVES ITS COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO A THIRD PARTY WITHOUT FIRST OBTAINING THE WRITTEN PERMISSION AND CONSENT OF LEA AND BRAZE ENGINEERING, INC. IN THE EVENT OF UNAUTHORIZED REUSE OF THESE PLANS BY A THIRD PARTY, THE THIRD PARTY SHALL HOLD HARMLESS LEA AND BRAZE ENGINEERING, INC.

CONSTRUCTION IS ALWAYS LESS THAN PERFECT SINCE PROJECTS REQUIRE THE COORDINATION AND INSTALLATION OF MANY INDIVIDUAL COMPONENTS BY VARIOUS CONSTRUCTION INDUSTRY TRADES. THESE DOCUMENTS CANNOT PORTRAY ALL COMPONENTS OR ASSEMBLIES EXACTLY. IT IS THE INTENTION OF THESE ENGINEERING DOCUMENTS THAT THEY REPRESENT A REASONABLE STANDARD OF CARE IN THEIR CONTENT. IT IS ALSO PRESUMED BY THESE DOCUMENTS THAT CONSTRUCTION REVIEW SERVICES WILL BE PROVIDED BY THE ENGINEER. SHOULD THE OWNER NOT RETAIN THE ENGINEER TO PROVIDE SUCH SERVICES, OR SHOULD HE/SHE RETAIN THE ENGINEER TO PROVIDE ONLY PARTIAL OR LIMITED SERVICES, THEN IT SHALL BE THE OWNER'S AND CONTRACTOR'S RESPONSIBILITY TO FULLY RECOGNIZE AND PROVIDE THAT STANDARD OF CARE.

IF THE OWNER OR CONTRACTOR OBSERVES OR OTHERWISE BECOMES AWARE OF ANY FAULT OR DEFECT IN THE PROJECT OR NONCONFORMANCE WITH THE CONTRACT DOCUMENTS, PROMPT WRITTEN NOTICE THEREOF SHALL BE GIVEN BY THE OWNER AND/OR CONTRACTOR TO THE ENGINEER.

THE ENGINEER SHALL NOT HAVE CONTROL OF OR CHARGE OF AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

SITE PROTECTION

PROTECT ALL LANDSCAPING THAT IS TO REMAIN. ANY DAMAGE OR LOSS RESULTING FROM EXCAVATION, GRADING, OR CONSTRUCTION WORK SHALL BE CORRECTED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING SITE UTILITIES AND SHALL COORDINATE THEIR REMOVAL OR MODIFICATIONS (IF ANY) TO AVOID ANY INTERRUPTION OF SERVICE TO ADJACENT AREAS. THE GENERAL CONTRACTOR SHALL INFORM HIM/HERSELF OF MUNICIPAL REGULATIONS AND CARRY OUT HIS/HER WORK IN COMPLIANCE WITH ALL FEDERAL AND STATE REQUIREMENTS TO REDUCE FIRE HAZARDS AND INJURIES TO THE PUBLIC.

CLEARING AND GRUBBING

- A. THE CONTRACTOR SHALL ACCEPT THE SITE IN ITS PRESENT CONDITION. ALL EXISTING PUBLIC IMPROVEMENTS SHALL BE PROTECTED. ANY IMPROVEMENTS DAMAGED SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE LOCAL JURISDICTION WITH NO EXTRA COMPENSATION.
- B. ALL ABANDONED BUILDINGS AND FOUNDATIONS, TREE (EXCEPT THOSE SPECIFIED TO REMAIN FOR LANDSCAPING PURPOSES), FENCES, VEGETATION AND ANY SURFACE DEBRIS SHALL BE REMOVED AND DISPOSED OF OFF THE SITE BY THE CONTRACTOR.
- C. ALL ABANDONED SEPTIC TANKS AND ANY OTHER SUBSURFACE STRUCTURES EXISTING IN PROPOSED DEVELOPMENT AREAS SHALL BE REMOVED PRIOR TO ANY GRADING OR FILL OPERATION. ALL APPURTENANT DRAIN FIELDS AND OTHER CONNECTING LINES MUST ALSO BE TOTALLY REMOVED.
- D. ALL ABANDONED UNDERGROUND IRRIGATION OR UTILITY LINES SHALL BE REMOVED OR DEMOLISHED. THE APPROPRIATE FINAL DISPOSITION OF SUCH LINES DEPEND UPON THEIR DEPTH AND LOCATION AND THE METHOD OF REMOVAL OR DEMOLITION SHALL BE DETERMINED BY THE SOILS ENGINEER. ONE OF THE FOLLOWING METHODS WILL BE USED:
 - (1) EXCAVATE AND TOTALLY REMOVE THE UTILITY LINE FROM THE TRENCH.
 - (2) EXCAVATE AND CRUSH THE UTILITY LINE IN THE TRENCH.
 - (3) CAP THE ENDS OF THE UTILITY LINE WITH CONCRETE TO PREVENT THE ENTRANCE OF WATER. THE LOCATIONS AT WHICH THE UTILITY LINE WILL BE CAPPED WILL BE DETERMINED BY THE UTILITY DISTRICT ENGINEER. THE LENGTH OF THE CAP SHALL NOT BE LESS THAN FIVE FEET, AND THE CONCRETED MIX EMPLOYED SHALL HAVE MINIMUM SHRINKAGE.

GENERAL NOTES CONTINUED:

DUST CONTROL

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY FOR THE ALLEMATION OR PREVENTION OF ANY DUST NUISANCE ON OR ABOUT THE SITE CAUSED BY THE CONTRACTOR'S OPERATION EITHER DURING THE PERFORMANCE OF THE GRADING OR RESULTING FROM THE CONDITION IN WHICH THE CONTRACTOR LEAVES THE SITE. THE CONTRACTOR SHALL ASSUME ALL LIABILITY INCLUDING COURT COST OF CO—DEFENDANTS FOR ALL CLAIMS RELATED TO DUST OR WND—BLOWN MATERIALS ATTRIBUTABLE TO HIS WORK. COST FOR THIS ITEM OF WORK IS TO BE INCLUDED IN THE EXCAVATION ITEM AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

INDEMNITY

THE CONTRACTOR WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE ENGINEER, THE OWNER AND HIS CONSULTANTS AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, THE ARCHITECT, THE ENGINEER AND HIS CONSULTANTS AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS.

SAFFT

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE. INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ENGINEERS TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.

<u>GUARANTEE</u>

NEITHER THE FINAL PAYMENT, NOR THE PROVISIONS IN THE CONTRACT, NOR PARTIAL, NOR ENTIRE USE OR OCCUPANCY OF THE PREMISES BY THE OWNER SHALL CONSTITUTE AN ACCEPTANCE OF THE WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT OR RELIEVES THE CONTRACTOR OF LIABILITY IN RESPECT TO ANY EXPRESS WARRANTIES OR RESPONSIBILITY FOR FAULTY MATERIAL OR WORKMANSHIP.

THE CONTRACTOR SHALL REMEDY ANY DEFECTS IN WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THERE FROM WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) CALENDAR YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

TRENCH BACKFILL

EITHER THE ON-SITE INORGANIC SOIL OR APPROVED IMPORTED SOIL MAY BE USED AS TRENCH BACKFILL. THE BACKFILL MATERIAL SHALL BE MOISTURE CONDITIONED PER THESE SPECIFICATIONS AND SHALL BE PLACED IN LIFTS OF NOT MORE THAN SIX INCHES IN HORIZONTAL UNCOMPACTED LAYERS AND BE COMPACTED BY MECHANICAL MEANS TO A MINIMUM OF 95% RELATIVE COMPACTION. IMPORTED SAND MAY BE USED FOR TRENCH BACKFILL MATERIAL PROVIDED IT IS COMPACTED TO AT LEAST 95% RELATIVE COMPACTION. WATER JETTING ASSOCIATED WITH COMPACTION USING VIBRATORY EQUIPMENT WILL BE PERMITTED ONLY WITH IMPORTED SAND BACKFILL WITH THE APPROVAL OF THE SOILS ENGINEER. ALL PIPES SHALL BE BEDDED WITH SAND EXTENDING FROM THE TRENCH BOTTOM TO TWELVE INCHES ABOVE THE PIPE. SAND BEDDING IS TO BE COMPACTED AS SPECIFIED ABOVE FOR SAND BACKFILL.

CLEANUF

THE CONTRACTOR MUST MAINTAIN THE SITE CLEAN, SAFE AND IN USABLE CONDITION. ANY SPILLS OF SOIL, ROCK OR CONSTRUCTION MATERIAL MUST BE REMOVED FROM THE SITE BY THE CONTRACTOR DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. COST FOR THIS ITEM OF WORK SHALL BE INCLUDED IN THE EXCAVATION AND COMPACTION ITEM AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

STORMWATER POLLUTION PREVENTION NOTES

- 1) STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
- 2) CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASH WATER OR SEDIMENT, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATER COURSES.
- 3) USE SEDIMENT CONTROL OR FILTRATION TO REMOVE SEDIMENT FROM DEWATERING
- 4) AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
- 5) DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES AND DISCHARGE COURSE WITH FIELD MARKERS.
- 6) PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OF FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- 7) PERFORM CLEARING AND EARTH MOVING ACTIVITIES DURING DRY WEATHER TO THE MAXIMUM EXTENT PRACTICAL.
- 8) LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.

SIDEWALKS USING DRY SWEEPING METHODS TO THE MAXIMUM EXTENT PRACTICAL.

9) LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.

10) AVOID TRACKING DIRT OR MATERIALS OFF-SITE; CLEAN OFF-SITE PAVED AREAS AND

SUPPLEMENTAL MEASURES

- A. THE PHRASE "NO DUMPING DRAINS TO BAY" OR EQUALLY EFFECTIVE PHRASE MUST BE LABELED ON STORM DRAIN INLETS (BY STENCILING, BRANDING, OR PLAQUES) TO ALERT THE PUBLIC TO THE DESTINATION OF STORM WATER AND TO PREVENT DIRECT DISCHARGE OF POLLUTANTS INTO THE STORM DRAIN.
- B. USING FILTRATION MATERIALS ON STORM DRAIN COVERS TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- C. STABILIZING ALL DENUDED AREAS AND MAINTAINING EROSION CONTROL MEASURES CONTINUOUSLY FROM OCTOBER 15 AND APRIL 15.
- D. REMOVING SPOILS PROMPTLY, AND AVOID STOCKPILING OF FILL MATERIALS, WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCKPILED SOILS AND OTHER MATERIALS SHALL BE COVERED WITH A TARP OR OTHER WATERPROOF MATERIAL.
- E. STORING, HANDLING, AND DISPOSING OF CONSTRUCTION MATERIALS AND WASTES SO AS TO AVOID THEIR ENTRY TO THE STORM DRAIN SYSTEMS OR WATER BODY.
- F. AVOIDING CLEANING, FUELING, OR MAINTAINING VEHICLES ON—SITE, EXCEPT IN AN AREA DESIGNATED TO CONTAIN AND TREAT RUNOFF.

GENERAL UTILITY SYSTEM NOTES:

- 1. ALL TRENCHES SHALL BE BACKFILLED PER THE COUNTY & DISTRICT STANDARDS AND RECOMMENDATIONS.
- 2. CONTRACTOR SHALL PREPARE AN ACCURATE COMPOSITE UTILITY PLAN THAT TAKES INTO ACCOUNT THE ACTUAL LOCATION OF EXISTING UTILITIES AS DETERMINED DURING THE DEMOLITION WORK. THE UTILITIES SHOWN ON THE CIVIL DRAWINGS, AND THE SITE POWER, CONDUITS AND LIGHTING SHOWN ON THE ELECTRICAL PLANS. THE FIRE SPRINKLER SYSTEM SHALL BE INCLUDED AS DESIGNED BY THE DESIGN/BUILD UNDERGROUND FIRE SPRINKLER CONTRACTOR.
- 3. COMPLETE SYSTEMS: ALL UTILITY SYSTEMS ARE DELINEATED IN A SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.
- 4. UNDERGROUND UTILITIES OR STRUCTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS AND EXTENT BASED UPON RECORD INFORMATION. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE ON THE ACCURACY OR COMPLETENESS FOR THE INFORMATION SHOWN. THE OWNER, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AGREES TO ASSUME LIABILITY AND TO HOLD THE UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, LOCATED AT VARIANCE WITH THOSE REPORTED OR SHOWN ON RECORDS EXAMINED.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES FROM DAMAGE DURING COMPACTION OF ROADWAY SUBGRADE AND PRIOR TO PLACEMENT OF FINAL PAVEMENT SECTIONS.
- S. CONTRACTOR SHALL VERIFY ALL EXISTING INVERT ELEVATIONS FOR STORM DRAIN AND SANITARY SEWER CONSTRUCTION PRIOR TO COMMENCEMENT OF ANY WORK. ALL WORK FOR STORM AND SANITARY SEWER INSTALLATION SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT. THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORKS UP STREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY ADJUSTMENTS NECESSARY. CONTRACTOR SHALL VERIFY LOCATION OF SANITARY SEWER LATERAL WITH OWNER PRIOR TO CONSTRUCTION.
- 7. EXISTING UTILITY CROSSINGS OF THE NEW PIPELINE ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. GAS, WATER AND SEWER, SERVICE LATERALS ARE SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE TYPE, SIZE, LOCATION, AND DEPTH OF ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE CORRECT AS SHOWN. NO GUARANTEE IS MADE THAT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) ARE SHOWN. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN EXCAVATING AND SHALL PROTECT ALL EXISTING UTILITIES (BOTH MAINS AND LATERALS) FROM DAMAGE DUE TO HIS OPERATION.
- 3. CONTRACTOR SHALL UNCOVER AND EXPOSE ALL EXISTING UTILITY AND SEWER LINES WHERE THEY ARE TO BE CROSSED ABOVE OR BELOW BY THE NEW FACILITY BEING CONSTRUCTED IN ORDER TO VERIFY THE GRADE AND TO ENSURE THAT THERE IS SUFFICIENT CLEARANCE.

VERTICAL SEPARATION REQUIREMENTS:

A MINIMUM OF SIX (6) INCHES VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN CROSSING UTILITY PIPES, EXCEPT THAT THE MINIMUM VERTICAL CLEARANCE BETWEEN WATER AND SANITARY SEWER PIPELINES SHALL BE 12 INCHES AND ALL NEW WATER PIPES SHALL BE TYPICALLY INSTALLED TO CROSS ABOVE/OVER EXISTING SANITARY SEWER PIPELINES.

WHERE NEW WATER PIPELINES ARE REQUIRED TO CROSS UNDER EXISTING AND/OR NEW SANITARY SEWER PIPELINES, THE MINIMUM VERTICAL SEPARATION SHALL BE 12 INCHES. WATER LINE PIPE ENDS SHALL BE INSTALLED NO CLOSER THEN 10' MINIMUM HORIZONTAL DISTANCE FROM CENTERLINE OF UTILITY CROSSINGS WHERE FEASIBLE.

HORIZONTAL SEPARATION REQUIREMENTS:

A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND ANY EXISTING UTILITIES SHALL BE 5' FEET EXCEPT THAT THE MINIMUM HORIZONTAL SEPARATION FOR WATER AND SANITARY SEWER PIPELINES SHALL BE 10' MINIMUM, UNLESS OTHERWISE NOTED.

- A MINIMUM HORIZONTAL SEPARATION BETWEEN NEW PIPELINES AND JOINT TRENCH SHALL BE 5 FEET.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPROPRIATE UTILITIES AND REQUESTING VERIFICATION OF SERVICE POINTS, FIELD VERIFICATION OF LOCATION, SIZE, DEPTH, ETC. FOR ALL THEIR FACILITIES AND TO COORDINATE WORK SCHEDULES.

SANITARY SEWER NOTES

- 1. INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 12" ABOVE THE TOP OF PIPE FOR OPEN TRENCH. GREEN IMPRINTED WITH "CAUTION— SANITARY SEWER LINE BELOW". CALPICO TYPE 2 OR EQUAL.
- 2. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH EMERALD LAKE SANITARY SEWER DISTRICT AND COUNTY OF SAN MATEO STANDARDS.
- 3. WHERE CONNECTION IS TO BE MADE TO AN EXISTING SEWER OR STRUCTURE, SAID EXISTING SEWER OR STRUCTURE SHALL BE UNCOVERED AND CHECKED FOR LOCATION AND ELEVATION PRIOR TO STAKING NEW SEWER DEPTH AND LOCATION. ANY DISCREPANCY BETWEEN THE PLANS AND THE FIELD INFORMATION SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- 4. ALL LATERALS SHALL HAVE A CLEANOUT AT THE PROPERTY LINE, AS SHOWN ON THE PLANS AND PER EMERALD LAKE SANITARY SEWER DISTRICT & COUNTY OF SAN MATEO

NOTE:
THESE NOTES ARE INTENDED TO BE USED AS A GENERAL GUIDELINE.
THE REFERENCED SOILS REPORT FOR THE PROJECT AND GOVERNING
AGENCY GRADING ORDINANCE SHALL SUPERSEDE THESE NOTES. THE
SOILS ENGINEER MAY MAKE ON—SITE RECOMMENDATIONS DURING
GRADING OPERATIONS.



E ENGINEERING, INC.

REGIONAL OFFICES:

ROSEVILLE

DUBLIN

SAN JOSE

LEA & BRAZE ENGINE

CIVIL ENGINEERS I LAND
AIN OFFICE:
SEGIONA
SYWARD, CALIFORNIA 94545
DUBLIN
TO) 887-4086
SAN JOS

RESIDENCE IGTON WAY S, CALIFORNIA

CHAPPELEAR F 1014 WILMING EMERALD HILLS,

NOTES & SPECIFICATIONS

C-4.0

CHECKED BY: JC/JV

SHEET NO: