Ann M. Stillman
Director

County Government Center
555 County Center, 5th Floor
Redwood City, CA 94063
650-363-4100 T
650-361-8220 F
www.smcgov.org

January 26, 2024

**COUNTY OF SAN MATEO**

**REALIZE FLOOD PARK PROJECT – PHASE ONE**

**COUNTY PROJECT NO. P30W1**
**PROJECT FILE NO. E5041**

**ADDENDUM NO. 2 (RE-BID)**

TO ALL PLAN HOLDERS:

The following **Addendum No. 2 (Re-Bid)** to the above referenced project, dated November 7, 2023, shall be included in the project specifications and plans.

1. Page 6 of the TOC (Table of Contents) Section shall be replaced in the Project Specifications.

   **Replace page 6 of the TOC (Table of Contents) Section with page 6 (rev).**

2. Page 5 of the "Notice to Bidders and Bid Instructions" Section of the Division 00 – Procurement and Contracting Requirements Section shall be replaced in the Project Specifications.

   **Replace page 5 of the Notice to Bidders and Bid Instructions Section with page 5 (rev).**

3. Page 15 and page 21 of the "General Conditions" Section of the Division 00 – Procurement and Contracting Requirements Section shall be replaced in the Project Specifications.

   **Replace page 15 and page 21 of the General Conditions Section with page 15 (rev) and page 21 (rev).**

4. Section 312000, "Earthwork," and Section 312100, "Utility Trenching and Backfill," of Division 31 – Earthwork have been revised. Pages 312000-3 through 312000-12, and page 312100-6 of the Division 31 – Earthwork Section shall be replaced in the Project Specifications.

   **Replace pages 312000-3 through 312000-12 of Section 312000 with pages 312000-3 (rev) through 312000-12 (rev).**

   **Replace page 312100-6 of Section 312100 with page 312100-6 (rev).**

5. Section 321216, “Asphalt Paving,” Section 328400, “Irrigation System,” and Section 329200, “Turf and Grasses,” of Division 32 – Exterior Improvements have been revised. Pages 321216-9 through 321216-10, page 328400-6, and pages 329200-1 through 329600-6 of the Division 32 – Exterior Improvements Section shall be replaced in the Project Specifications.

   **Replace pages 321216-9 through 321216-10 of Section 321216 with pages 321216-9 (rev) through 321216-10 (rev).**

   **Replace page 328400-6 of Section 328400 with page 328400-6 (rev).**

   **Replace pages 329200-1 through 329200-6 of Section 329200 with pages 329200-1 (rev) through 329200-6 (rev).**

6. Section 331900, “Water System,” and Section 333000, “Sanitary Sewer System,” of Division 33 – Utilities have been revised. Pages 331900-6 through 331900-22, and page 333000-3 of the Division 33 – Utilities Section shall be replaced in the Project Specifications.

   **Replace pages 331900-6 through 331900-22 of Section 331900 with pages 331900-6 (rev) through 331900-22 (rev).**

   **Replace page 333000-3 of Section 333000 with page 333000-3 (rev).**

7. Sheets G0-100, G0-200, G0-210, G0-221, G0-223, C1.0, C2.0, C2.2, C3.0, C3.2, C4.1 - C4.3, C4.5, C6.0 – C6.5, C10.0, C10.1, C10.3, C10.4, L1-100, L1-121, L1-123, L1-600, L1-610, L1-621 - L1-624, and L6-100 - L6-101 of the Plans shall be replaced, and Sheets G0-410 and L-620 shall be added in the Project Plans.

   **Replace Plan Sheet G0-100 with Sheet G0-100 (rev).**
   **Replace Plan Sheet G0-200 with Sheet G0-200 (rev).**
   **Replace Plan Sheet G0-210 with Sheet G0-210 (rev).**
   **Replace Plan Sheet G0-221 with Sheet G0-221 (rev).**
   **Replace Plan Sheet G0-223 with Sheet G0-223 (rev).**
   **Insert Plan Sheet G0-410 (rev).**
   **Replace Plan Sheet C1.0 with Sheet C1.0 (rev).**
   **Replace Plan Sheet C2.0 with Sheet C2.0 (rev).**
   **Replace Plan Sheet C2.2 with Sheet C2.2 (rev).**
   **Replace Plan Sheet C3.0 with Sheet C3.0 (rev).**
   **Replace Plan Sheet C3.2 with Sheet C3.2 (rev).**
   **Replace Plan Sheets C4.1 – C4.3 with Sheets C4.1 (rev) – C4.3 (rev).**
   **Replace Plan Sheet C4.5 with Sheet C4.5 (rev).**
   **Replace Plan Sheets C6.0 – C6.5 with Sheets C6.0 (rev) – C6.5 (rev).**
   **Replace Plan Sheet C10.0 with Sheet C10.0 (rev).**
   **Replace Plan Sheet C10.1 with Sheet C10.1 (rev).**
   **Replace Plan Sheet C10.3 with Sheet C10.3 (rev).**

**Replace Plan Sheet C10.4 with Sheet C10.4 (rev).**
**Replace Plan Sheet L1-100 with Sheet L1-100 (rev).**
**Replace Plan Sheet L1-121 with Sheet L1-121 (rev).**
**Replace Plan Sheet L1-123 with Sheet L1-123 (rev).**
**Replace Plan Sheet L1-600 with Sheet L1-600 (rev).**
**Replace Plan Sheet L1-610 with Sheet L1-610 (rev).**
**Insert Plan Sheet L1-620 (rev).**
**Replace Plan Sheets L1-621 – L1-624 with Sheets L1-621 (rev) – L1-624 (rev).**
**Replace Plan Sheets L6-100 – L6-101 with Sheets L6-100 (rev) – L6-101 (rev).**

8. Supplemental Exhibit Sheets "Geotechnical Results: Flood Park Pavement Evaluation," "Anticipated Site Logistics and Access Plan," "Bay Road Exhibit," and "Pump Track Public Access During Construction (Site Exhibit)," shall be added to the Project Plans.

**Insert "Geotechnical Results: Flood Park Pavement Evaluation" Sheet in the Project Plans**
**Insert "Anticipated Site Logistics and Access Plan" Sheet in the Project Plans**
**Insert "Flood Park – Phase 1 – Bay Road Exhibit" Sheet in the Project Plans.**
**Insert "Pump Track Public Access During Construction (Site Exhibit)" Sheet in Project Plans.**

***Please sign and return the attached "Receipt of Addendum No. 2 (Re-Bid)" form. The "Receipt of Addendum No. 2 (Re-Bid)" form MUST be received in this office no later than 2:00 PM, Wednesday, January 31, 2024 or the bid will NOT be considered. The Receipt of Addendum can be emailed to Anthony Lum's attention email at alum@smcgov.org, with carbon copy to enacpil@smcgov.org.***

All plan holders are advised to review the project webpage for the latest updates on Request for Information. The project webpage address is:

https://www.smcgov.org/publicworks/Realize-Flood-Park-Project-Phase-One-POTB.

If you have any questions or require additional information, please contact Edward Nacpil or Anthony Lum of our office at (650) 363-4100. They can also be reached by e-mail at:

enacpil@smcgov.org
alum@smcgov.org

Very truly yours,

Ann M. Stillman
Director of Public Works

AMS:KL:CC:AL:EN

F:\Users\design\C3D\E5041000_Re-Imagine Flood Park Project\14 Bid Process\Addendums\Addendum #2_Rebid\Complete Addendum 2 Rebid Package

Encl.- "Receipt of Addendum No. 2 (Re-Bid)" Form
Revised Page 6 (rev) of the TOC (Table of Contents) Section
Revised Page 5 (rev) of the Notice to Bidders and Bid Instructions Section
Revised Page 15 (rev) and page 21 (rev) of the General Conditions Section
Revised Pages 312000-3 (rev) through 312000-12 (rev) of the Earthwork Section 312000
Revised Page 312100-6 (rev) of the Utility Trenching and Backfill Section 312100
Revised Pages 321216-9 (rev) through 321216-10 (rev) of the Asphalt Paving Section 321216
Revised Page 328400-6 (rev) of the Irrigation System Section 328400
Revised Pages 329200-1 (rev) through 329200-6 (rev) of the Turf and Grasses Section 329200
Revised Pages 331900-6 (rev) through 331900-22 (rev) of the Water System Section 331900
Revised Page 333000-3 (rev) of the Sanitary Sewer System Section 333000
Revised Sheets G0-100 (rev), G0-200 (rev), G0-210 (rev), G0-221 (rev), G0-223 (rev), C1.0 (rev), C2.0 (rev), C2.2 (rev), C3.0 (rev), C3.2 (rev), C4.1 (rev) – C4.3 (rev), C4.5 (rev), C6.0 (rev) – C6.5 (rev), C10.0 (rev), C10.1 (rev), C10.3 (rev), C10.4 (rev), L1-100 (rev), L1-121 (rev), L1-123 (rev), L1-600 (rev), L1-610 (rev), L1-621 (rev) – L1-624 (rev), and L6-100 (rev) – L6-101 (rev) of the Project Plans
Sheets G0-410 (rev) and L1-620 (rev) of the Project Plans
"Geotechnical Results: Flood Park Pavement Evaluation" Sheet
"Anticipated Site Logistics and Access Plan" Sheet
"Flood Park – Phase 1 – Bay Road Exhibit" Sheet
"Pump Track Public Access During Construction (Site Exhibit)" Sheet

cc: Krzysztof Lisaj, Deputy Director, Engineering and Resource Protection
Carter Choi, Acting Principal Civil Engineer, Engineering and Construction
Anthony Lum, Senior Civil Engineer, Project Development and Design
Edward Nacpil, Associate Engineer, Project Development and Design

Ann M. Stillman
Director

County Government Center
555 County Center, 5th Floor
Redwood City, CA 94063
650-363-4100 T
650-361-8220 F
www.smcgov.org

January 26, 2024

**COUNTY OF SAN MATEO**

**REALIZE FLOOD PARK PROJECT – PHASE ONE**

**COUNTY PROJECT NO. P30W1**
**PROJECT FILE NO. E5041**

## RECEIPT OF ADDENDUM NO. 2 (RE-BID)

I, _____, an authorized representative for _____, have received **Addendum No. 2 (Re-Bid)** for the Realize Flood Park Project – Phase One from an authorized representative of the County of San Mateo, which is to be included in the Specifications for the above referenced project.

This form must be signed and received in the offices of the County of San Mateo, Department of Public Works ***no later than*** **2:00 P.M., Wednesday, January 31, 2024.**

"Contractor"

_____
(Print)

_____
(Signature)

_____
(Date)

**REALIZE FLOOD PARK PROJECT – PHASE 1**

**SUPPLEMENTAL DOCUMENTS**

- Arborist Report and Tree Survey
- Geotechnical Report
- **Geotechnical Results: Flood Park Pavement Evaluation**
- Synthetic Turf Supplemental Memo
- San Francisco Public Utilities Commission – Right-Of-Way Guidelines
- Flood Park Environmental Impact Report – Mitigation Monitoring and Reporting Program
    - Refer to Full EIR Document for more information
- San Mateo County IPM Policy
- Limited Asbestos & Lead Survey Report
- Anticipated Site Logistics and Access Plan
- **Flood Park - Phase 1 - Bay Road Exhibit**
- **Pump Track Public Access During Construction (Site Exhibit)**

have three (3) business days to respond to the Department and to provide any information requested by the Department. The Department shall respond to the protesting party, stating its findings. The Department Director shall make a recommendation to the San Mateo County Board of Supervisors regarding the bid protest.

15. Award of Agreement/Rejection of Bids: The County may issue a "Notification of Apparent Low Bid" to the bidder that it determines to be the lowest responsible and responsive bidder. The County reserves the right to reject any or all proposals, to contract work with whomever and in whatever manner, to abandon the Project entirely, or to waive any informality in bids received. Unless and until a "Notice to Proceed" is issued by the County, no obligation on behalf of either party exists. Upon issuance of the "Notice to Proceed", the successful bidder will post all required bonds and submit proper evidence of insurance coverage as called for by the Contract Documents. If this is not accomplished within ten (10) calendar days, the County reserves the right to cash bidder's bid security check to cover the differential in the higher bid award and the County administrative costs, and award the bid to the next lowest responsible and responsive bidder or otherwise proceed as allowed by law.

16. Form of Agreement: The form of contract which the successful Bidder will be required to execute, if awarded the Project, shall be per the attached template that is contained in the bid package. The terms and conditions, in their entirety, in the County's Agreement are NOT NEGOTIABLE. Proposals requesting modifications to the non-negotiable terms will be deemed non-responsive and will not be reviewed. The Agreement shall contain, among other things, matters required by State law to be inserted in contracts for public work.

17. Payment and Performance Bonds: The successful Bidder, upon notice of award of bid and prior to commencing Project, shall furnish in duplicate a labor and material bond in the amount of **one hundred percent (100%)** of the contract sum and a faithful performance bond in the amount of **one hundred percent (100%)** of the contract sum.

18. Insurance: Prior to commencing work, the Contractor is required to furnish the County with Certificates of Insurance for workers' compensation, and comprehensive General Liability including broad form property damage, automobile liability and all additional requirements per Article 16 of the Agreement. As set forth more fully in Article 16 of the Agreement, the County has reserved the right to modify the insurance requirements contained in the Agreement, including but not limited to, by implementing, an Owner Controlled Insurance Program ("OCIP") for the Project.

19. Prevailing Wage Rates: In accordance with the provisions of section 1770 of the Labor Code, the Director of the Department of Industrial Relations of the State of California has determined the general prevailing rates of wages and employee payments for health and welfare, pension, vacation, travel time, working hours and apprenticeable training requirements which must be paid to all workers on public work contracts. (See Labor Code § 1770, *et seq.*)

20. Non-Discrimination: The County will affirmatively ensure that in any contract entered into pursuant to this advertisement, qualified contractors will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, creed, sex or national origin in consideration for award.

21. Withdrawal or Modification of Bid Proposals: Bid proposals may be withdrawn or modified by the Bidder prior to the time fixed for the opening of bids. A notice of withdrawal or modification to a bid must be signed by the Bidder or its designated representative. Following bid opening, a Bidder shall not be relieved of its bid unless by consent of the County or Bidder's recourse to Public Contract Code sections 5100-5108. Bidders must hold their bids open for one hundred and twenty (120) days after the Bid Opening Date.

22. Prevailing Law: In the event of any conflict or ambiguity between these instructions and state or federal law or regulations, the latter shall prevail.

23. Forms to Submit with Bid: Except for Deferred Items, all bid proposals shall include the following documents, each complete in its entirety. Deferred Items shall be submitted within 24 hours after submission of Bid. Failure by the bidder to submit the documents/forms will render the bid non-responsive.

6.3.2 Any costs caused by defective or ill-timed work shall be borne by the party responsible therefore.

## Article 7 PERFORMANCE AND PAYMENT BONDS.

7.1 In order to ensure that any Change Order work will be as fully bonded as work envisioned under the original Contract Documents, the Contractor shall provide, within five (5) days of the Execution Date of the Agreement, written proof, satisfactory to the County, that (1) it has pre-reserved bonding capacity in the amount of **One Hundred Percent (100%)** of the Contract amount; or (2) its bonding company will bond any Change Order work which may be added to the Contract.

7.2 During the period covered by the Contract, if any of the sureties upon the bonds shall become insolvent or unable, in the opinion of the County, to pay promptly the amount of such bonds to the extent to which surety might be liable, the Contractor, within ten (10) days after notice given by the County to the Contractor, shall provide supplemental bonds or otherwise substitute another and sufficient surety approved by the County in place of the surety becoming insolvent or unable to pay. If the Contractor fails within such ten (10) day period to substitute another and sufficient surety, the Contractor shall, if the County so elects, be deemed to be in material breach of the Agreement and to be in default with respect to the payment bond, and the County, in addition to any and all other remedies, may terminate the Contract or bring any proper suit or other proceedings against the Contractor and the sureties or any of them, or may deduct from any monies then due or which thereafter may become due the Contractor under the Contract, the amount for which the surety, insolvent or unable to pay as aforesaid, shall have justified on the bonds, and the monies so deducted shall be held by the County as collateral security for the performance of the conditions of the bonds.

7.3 Corporate sureties on these bonds and on bonds accompanying bids must be admitted surety insurers as defined in California Code of Civil Procedure section 995.120(a), legally authorized to engage in the business of furnishing surety bonds in the State of California. All sureties and bond forms must be satisfactory to the County. Bond forms are furnished herewith.

## Article 8 PAYMENTS AND COMPLETION.

8.1 Before the first application for payment, the Contractor shall submit to the Project Manager a schedule of values of the various portions of the Project, including quantities aggregating the total Contract Sum set forth in Article 5 of the Agreement, divided so as to facilitate payments to subcontractors, prepared in such form as specified, supported by such substantiating data as the Project Manager may require. Each item in the schedule of values shall include its proper share of overhead and profit. The schedule, when approved by the Project Manager and Design Team, shall be used as a basis for the Contractor's applications for payment under the terms of the Agreement. Should any scope of work be later deleted in its entirety by Change Order, the value of that work shall be as stated in the schedule of values.

8.2 Progress Schedules.

8.2.1 Contractor shall, prior to commencing construction and with each application for payment, submit to the Project Manager a Critical Path Method (CPM) schedule for the remainder of the Project showing anticipated beginning and ending dates for all critical path activities

10.7.3 If the Contractor performs the work through a subcontractor that is not owned or controlled by it, subcontractor's percentage markup shall not exceed ten percent (10%) of its subcontractor's hard costs for such work.

10.7.4 The total percentage markup on any change order shall not exceed ten percent (10%) of the actual cost of such work.

10.7.5 The above percentage markups for overhead and profit (including that for work performed by subcontractors) are understood to include Contractor's and subcontractor's site supervision costs, home office overhead, profit margin, insurance, general conditions, small tools, consumables, and all other factors. After the bonding capacity of **one hundred percent (100%)** of the contract value is reached; the actual cost of additional bond capacity, not to exceed two percent (2%) of the increased value of the Contract, shall be added to change orders.

10.8 Direct Cost of Materials: For all materials purchased by the Contractor and used in this specific Work, it shall receive the actual cost of such materials including freight charges, as shown by original receipted invoices for materials and freight.

10.8.1 If the actual costs, in the opinion of the Project Manager and/or Design Team, are excessive, or if the Contractor does not furnish satisfactory evidence of the cost of such materials from the actual supplier thereof, then the cost of such materials shall be deemed to be the lowest current wholesale price at which such materials are available in the quantities concerned delivered to the job site.

10.9 Direct Labor Costs: For all craft labor and foremen engaged in the specific operation, the Contractor shall receive the wage prevailing and paid on the project for each and every hour that said labor and foremen are actually engaged in such work, an amount equal to the Contractor's cost of Workmen's Compensation Insurance, Social Security taxes, Public Liability and Property Damage Insurance, and any and all fringe benefit costs required by prevailing wage agreement.

10.10 Direct Equipment Costs: For any machine, apparatus, or equipment which shall be deemed necessary or desirable to use, the Contractor shall be allowed a reasonable rental price, which shall be approved in writing before commencing such work, for each and every hour that said machinery, apparatus, or equipment is in use on such work.

10.10.1 Rental rates shall be deemed to include the cost of fuel, oil, lubrication, supplies, brooms or brushes, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, bonds and all incidentals.

10.10.2 A reasonable rental price for non-rented equipment will be the rental rates listed for such equipment in the California Department of Transportation publication entitled Labor Surcharge and Equipment Rental Rates (hereinafter "State Rental Rates"), which is in effect on the date upon which the work is accomplished. If it is deemed necessary to use equipment not listed in said publication, a suitable rental rate for such equipment shall be established by the Project Manager. The Contractor may furnish any cost data which might assist the Project Manager in the establishment of such rental rate.

10.10.3 A reasonable rental price for rented equipment shall be based on the actual and reasonable hourly rate shown on the rental agency invoice or agreement for the time used on force account work. If a minimum equipment rental amount is required by the local equipment rental agency, the actual amount charged will be paid to the Contractor. Approval for payment of rental equipment will be based on Contractor's paid vouchers approved by the Project Manager and Design Team. If the Contractor does not furnish satisfactory evidence of the cost of the use of such equipment, the cost then shall be determined by

1.5 QUALITY ASSURANCE

A. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E329 and ASTM D3740 for testing indicated.

B. **The contractor shall conduct a survey of the lime treated subgrade for the small multi-use field confirming compliance with 3.6.F and conduct a handover review meeting with the County's CMAS vendor for the synthetic turf.**

1.6 FIELD CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth-moving operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

B. Improvements on Adjoining Property: Authority for performing earthwork indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.

1. Do not proceed with work on adjoining property until directed by County appointed Construction Manager.

C. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth-moving operations.

D. Do not commence earth-moving operations until temporary site fencing and erosion- and sedimentation-control measures specified in Section 015050 "Erosion Control" Section 015000 "Temporary Facilities and Controls" and Section 311000 "Site Clearing" are in place.

E. Do not commence earthwork operations until tree removal and protection measures specified in Section 015639 "Tree Removal and Landscape Protection" are in place.

F. The following practices are prohibited within protection zones:

1. Storage of construction materials, debris, or excavated material.
2. Parking vehicles or equipment.
3. Foot traffic.
4. Erection of sheds or structures.
5. Impoundment of water.
6. Excavation or other digging unless otherwise indicated.
7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

G. Do not direct vehicle or equipment exhaust towards protection zones.

H. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

## PART 2 - PRODUCTS

### 2.1 SOIL MATERIALS

A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.

B. Satisfactory Soils: According to Geotechnical Report.

C. Subbase Material: Caltrans Standard Class 2 Aggregate base.

D. Permeable Base Material: Caltrans Standard Class 2 Permeable Base

E. Drain Rock: Narrowly graded mixture of washed crushed stone, or crushed or uncrushed gravel; ASTM D448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch (37.5-mm) sieve, 95-100 percent passing a 1-inch (25.4-mm) sieve, 25-60 percent passing a ½-inch (12.7-mm) sieve, 0-10 percent passing a No. 4 (4.76-mm) sieve and 0-5 percent passing a No. 8 (2.36-mm) sieve.

F. Sand: ASTM C33/C33M; fine aggregate.

G. PG&E Trench Backfill: Sand or native soil to provide a smooth bedding area when installing utility facilities. The backfill must fill all of the voids around the facilities and provide at least 12 inches of cover for the conduit or pipe. PG&E considers soil that contains occasional, rounded rocks that are 1/2 inch in diameter or less to be acceptable backfill. Crushed rock or sharp-edged materials of any kind, or backfill containing easily breakable dirt clods larger than 6 inches in diameter, are not acceptable. Additionally, PG&E prohibits applicants to use backfill with rocks greater than 3 inches in any dimension within 6 inches of the top of the pipe or conduit or less than 12 inches below the pavement subgrade.

H. Quicklime: Quicklime – Quicklime shall be ASTM Designation: C 977 (Specification for Quicklime and Hydrated Lime for Soil Stabilization). Sampling shall conform to ASTM C 50. The Quicklime shall be protected from moisture until used and be sufficiently dry to flow freely when handled. Quicklime shall be furnished in bulk with product certification on the certified weigh tags.

1. When dry sieved in a mechanical sieve shaker for 10 minutes +/- 30 seconds a 250-gram test sample of Quicklime shall conform to the following grading requirements:

| Sieve Size | Percentage Passing |
|---|---|
| 3/8 | 98 - 100 |

### 2.2 GEOTEXTILES

A. Subsurface Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater

than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:

1. Mirafi 140N or approved equivalent.

B. Geotextile Fabric for Vehicular AC Paving within Tree Protection Zones. Mirafi HP570 or approved equivalent.

## 2.3 ACCESSORIES

A. Warning Tape: Refer to requirements in Section 312100 “Utility Trenching and Backfill”.

B. Detectable Warning Tape: Refer to requirements in Section 312100 “Utility Trenching and Backfill”.

# PART 3 - EXECUTION

## 3.1 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth-moving operations.

B. Protect and maintain erosion and sedimentation controls during earth-moving operations.

C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

## 3.2 DEWATERING

A. Provide dewatering system of sufficient scope, size, and capacity to control hydrostatic pressures and to lower, control, remove, and dispose of ground water and permit excavation and construction to proceed on dry, stable subgrades.

B. Prevent surface water and ground water from entering excavations, from ponding on prepared subgrades, and from flooding Project site and surrounding area.

C. Protect subgrades from softening, undermining, washout, and damage by rain or water accumulation.

1. Reroute surface water runoff away from excavated areas. Do not allow water to accumulate in excavations. Do not use excavated trenches as temporary drainage ditches.

D. Dispose of water removed by dewatering in a manner that avoids endangering public health, property, and portions of work under construction or completed. Dispose of water and sediment in a manner that avoids inconvenience to others.

## 3.3 EXCAVATION, GENERAL

Retain "Unclassified Excavation" or "Classified Excavation" Paragraph below. Retain first paragraph if excavation is unclassified and no changes in the Contract Sum or the Contract Time will be authorized for rock excavation. Retain second paragraph if excavation is classified and adjustments in the Contract Sum and, if applicable, the Contract Time will be authorized for rock excavation. See Evaluations.

A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.

1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.
2. Remove rock to lines and grades indicated to permit installation of permanent construction without exceeding the following dimensions:

## 3.4 EXCAVATION FOR STRUCTURES

A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch (25 mm). If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.

1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.

B. Excavations at Edges of Tree- and Within Tree Protection Zones: according to requirements in Section 015639 "Tree Removal and Landscape Protection."

1. Excavate by hand or with an air spade to indicated lines, cross sections, elevations, and subgrades. If excavating by hand, use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Cut and protect roots according to requirements in Section 015639 "Tree Removal and Landscape Protection."

## 3.5 EXCAVATION FOR WALKS AND PAVEMENTS

A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

## 3.6 LIME TREATMENT (For Small Multiuse Field Subgrade)

A. Handling and safety: The Contractor shall obtain and enforce the lime supplier’s instructions for proper safety and handling of the lime to prevent physical eye or skin contact with lime during transport or application.

B. Proportioning / Spreading:

1. The Quicklime shall be spread in one operation to the required width, grade and cross section. Quicklime shall be evenly spread at the designated rate and shall not vary more than 5 percent on any area. Only a calibrated spreader able to provide a uniform distribution of the Quicklime throughout the treatment area shall spread the Quicklime. The Quicklime shall be added in a dry state and every precaution shall be taken to prevent dusting.
2. Tailgate spreading of the Quicklime will not be permitted. Tailgating is defined as having manual control of the spread rate, instead of automatic. The spreader truck shall demonstrate the ability to maintain a consistent spread rate over variable travel speeds.
3. The contractor will demonstrate the consistency of the spread rate by conducting a multiple pan tests. The test is 3 pans in a row with readings in tolerance
4. No traffic other than the mixing equipment or other related construction equipment will be allowed to pass over the spread Quicklime until after completion of mixing.

C. Initial Mixing
1. Mixing equipment shall be equipped with a visible depth indicator showing mixing depth, an odometer to indicate travel speed and a controllable water additive system for regulating water added to the mixture. The initial mix shall be done while introducing water (to provide moisture content about 5 percent above optimum) through a controllable pump on the mixing machine. Spread lime shall not be left exposed for more than 6 hours.
2. Mixing equipment shall be the type that can mix to the full depth of the desired thickness and leave a relatively smooth bottom of the treated section. Mixing and re-mixing, regardless of equipment used, will continue until the material is uniformly mixed, free of streaks or pockets of unhydrated Quicklime and clay clods are broken down to less than 1-inch in size. Two or more passes (1 pass = 1 coverage) with the mixer should be anticipated during initial mixing to achieve breakdown. Moisture content shall be more than 3 percent over the treated soils design optimum after the initial mixing.
3. Treated material shall not be mixed or spread while the atmospheric or soil temperature is below 35 F or below 1.67 C.

D. Mellowing and Re-Mixing
1. After initial mixing and hydration, the treated material shall mellow for a minimum of 36 hours prior to re-mixing or until the soil becomes friable. Once the mellowing period has been completed, the treated soil shall be re-mix and re-hydrated to the full depth of treatment.
2. All material other than rock or aggregate complies with the following requirements

| Sieve size | Percent Passing |
|---|---|
| l" | 100 Min. |
| #4 | 60 Min. |

3. No color reaction of the treated material, exclusive of one inch or larger clods, is tested with the standard phenolphthalein alcohol indicator, will be considered evidence of inadequate mixing.

E. Compacting
1. The Quicklime treated soils shall be compacted to a minimum of 90 percent relative compaction determined by ASTM 1557. The maximum compacted thickness of a single layer may be any thickness the contractor can demonstrate to the Engineer that

his equipment and method of operation will provide the required compacted density throughout the layer.

2. Initial compaction shall be performed by means of open ring sheepsfoot type compactor. Final rolling shall be by means of steel - drum or pneumatic - tired rollers. Areas inaccessible to rollers shall be compacted to the required compaction by other means satisfactory to the Engineer.

F. Finishing and Curing
1. After the final layer or course of lime-treated subgrade has been compacted, it shall be brought to the required lines and grades in accordance with the typical sections. The contractor shall finish grade the compacted lime treated subgrade within 24 to 48 hours of the final compaction of the lime treated section. The contractor shall not use the finished subgrade as a "haul road" or other similar use and shall keep heavy construction equipment off the finished subgrade until the Aggregate Base is placed and compacted. The completed section shall then be finished by rolling, as directed by the Engineer, with a pneumatic or other suitable roller sufficiently light to prevent hairline cracking.
2. **The finished surface shall not vary more than ½ inch from proposed grades or more than** 3/8 inch (9 mm) when tested with a 12 feet (3.7m) straightedge applied parallel with and at right angles to the pavement centerline. Any variations in excess of this tolerance shall be corrected by the Contractor in a manner satisfactory to the Engineer, and the cost shall be incidental to this item.
3. The contractor shall periodically (1 to 3 times) daily water the top of the subgrade to reduce the potential for drying out the lime treated subgrade during the curing period until the baserock is placed.
4. The completed lime treated section shall be moist-cured for a minimum of seven (7) days before further courses are added or any traffic is permitted, unless otherwise directed by the Engineer.

G. Maintenance: The Contractor shall protect and maintain the lime-treated subgrade from yielding until the lime-treated subgrade is covered by placement of the next layer. The cost of this maintenance shall be incidental to this item.

## 3.7 SUBGRADE INSPECTION

A. Notify County appointed Construction Manager when excavations have reached required subgrade.

B. If County appointed Construction Manager or Geotechnical determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed.

C. Proof-roll subgrade below paving to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.

1. Completely proof-roll subgrade in one direction[, repeating proof-rolling in direction perpendicular to first direction]. Limit vehicle speed to 3 mph (5 km/h).
2. Excavate soft spots, unsatisfactory soils, and areas of excessive pumping or rutting, as determined by County appointed Construction Manager, and replace with compacted backfill or fill as directed.

D. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.

E. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by County appointed Construction Manager, without additional compensation.

## 3.8 STORAGE OF SOIL MATERIALS

A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.

1. Stockpile soil materials away from edge of excavations. Do not store within Tree Protection Zones

## 3.9 BACKFILL

A. Place and compact backfill in excavations promptly, but not before completing the following:

1. Construction below finish grade including, where applicable, subdrainagr.
2. Testing and inspecting underground utilities.
3. Removing concrete formwork.
4. Removing trash and debris.
5. Removing temporary shoring, bracing, and sheeting.

B. Place backfill on subgrades free of mud, frost, snow, or ice.

## 3.10 SOIL FILL

A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.

B. Place and compact fill material in layers to required elevations as follows:

1. Under grass and planted areas, use satisfactory soil material.
2. Under walks and pavements, use satisfactory soil material.
3. Under steps and ramps, use engineered fill.
4. Under building slabs, use engineered fill.
5. Under footings and foundations, use engineered fill.

C. Place soil fill on subgrades free of mud, frost, snow, or ice.

## 3.11 SOIL MOISTURE CONTROL

A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction. Moisture requirements should follow the geotechnical report recommendations in section 6.8, Table 3.

1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.
2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content. Refer to section 6.6 of the geotechnical report for additional wet soil stabilization recommendations.

## 3.12 COMPACTION OF SOIL BACKFILLS AND FILLS

A. Place backfill and fill soil materials in layers not more than 8 inches in loose depth for material compacted by heavy compaction equipment and not more than 4 inches (100 mm) in loose depth for material compacted by hand-operated tampers.

B. Place backfill and fill soil materials evenly on all sides of structures to required elevations and uniformly along the full length of each structure.

C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D1557:

1. Under structures, building slabs, steps, and pavements: As defined in the Geotechnical Report.
2. Under Synthetic Turf Field: As defined in the Geotechnical Report and Supplemental Recommendations for Synthetic Turf Field.
3. For utility trenches: As defined in the Geotechnical Report.
4. Under turf or unpaved areas, scarify and recompact top 3 inches below subgrade and compact each layer of backfill or fill soil material at 85 percent.

## 3.13 GRADING

A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

1. Provide a smooth transition between adjacent existing grades and new grades.
2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.

B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to elevations required to achieve indicated finish elevations, within the following subgrade tolerances:

1. Turf or Unpaved Areas: Plus or minus 1 inch.
2. Walks: Plus or minus 1 inch.
3. Pavements: Plus or minus 1/2 inch.

## 3.14 SUBSURFACE DRAINAGE

A. Subsurface Drain: Place subsurface drainage geotextile around perimeter of subdrainage trench. Place a 6-inch (150-mm) course of filter material on subsurface drainage geotextile to support subdrainage pipe. Encase subdrainage pipe in a minimum of 12 inches (300 mm) of filter

material, placed in compacted layers 6 inches (150 mm) thick, and wrap in subsurface drainage geotextile, overlapping sides and ends at least 6 inches (150 mm).

B. Drain Rock: Carefully place material in layers not exceeding 12-inch lifts and compact each layer with a minimum of 4 passes. Compaction shall be achieved by means of mechanical vibratory compaction using vibratory plate compactors. Do not compact by ponding, flooding or jetting.

C.

## 3.15 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

A. Place subbase course on subgrades free of mud, frost, snow, or ice.

B. On prepared subgrade, place subbase course[ and base course] under pavements and walks as follows:

1. Place base course material over subbase course under hot-mix asphalt pavement.
2. Shape subbase course to required crown elevations and cross-slope grades.
3. Place subbase course 6 inches or less in compacted thickness in a single layer.
4. Place subbase course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
5. Compact subbase course at optimum moisture content to required grades, lines, cross sections, and thickness as defined in the Geotechnical report.

C. Pavement Shoulders: Place shoulders along edges of subbase course to prevent lateral movement. Construct shoulders, at least 12 inches (300 mm) wide, of satisfactory soil materials and compact simultaneously with each subbase.

D. Re-use of existing aggregate base: If existing aggregate base is to be reused as aggregate base, a sample of the aggregate base is to be submitted for Caltrans Class 2 AB testing, Section 26 of the Standard Specifications.

## 3.16 FIELD QUALITY CONTROL

A. Geotechnical Observations: Owner will engage the geotechnical engineer of record and their representative testing agency to perform the following observations:

1. Determine prior to placement of fill that site has been prepared in compliance with requirements.
2. Determine that fill material classification and maximum lift thickness comply with requirements.
3. Determine, during placement and compaction, that in-place density of compacted fill complies with requirements.
4. Observe foundation excavations prior to placement of steel reinforcement and concrete placement for dimension and geotechnical compliance.

B. Allow testing agency to observe and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.

C. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by County appointed Construction Manager.

D. Testing agency will test compaction of soils in place according to ASTM D1556, ASTM D2167, ASTM D2937, and ASTM D6938, as applicable.
   1. Frequencies will be determined by geotechnical engineer and their representative based on site conditions.

E. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

F. Drain Rock Testing/Inspection: Visual observation for approximately 1”/lift, equivalent to 8% settlement to achieve compaction.

## 3.17 PROTECTION

A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

   1. Scarify or remove and replace soil material to depth as directed by County appointed Construction Manager; reshape and recompact.

C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.

   1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

## 3.18 DISPOSAL OF SURPLUS AND WASTE MATERIALS

A. Transport surplus satisfactory soil to designated storage areas on Owner's property. Stockpile or spread soil as directed by County appointed Construction Manager.

   1. Remove waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 312000

| Sieve Size | Percentage Passing |
|---|---|
| No. 4 | 100 |
| No. 200 | 0 -5 |

2.4 WARNING TAPE

A. Polyethylene plastic and metallic core or metallic-faced, acid- and alkali-resistant, polyethylene plastic warning tape manufactured specifically for warning and identification of buried utility lines. Provide tape on rolls, 6-inch minimum width, color coded as specified below for the intended utility with warning and identification imprinted in bold black letters continuously over the entire tape length. Warning and identification to read, "CAUTION, BURIED (intended service) LINE BELOW" or similar wording. Color and printing shall be permanent, unaffected by moisture or soil.

1. Warning Tape Color Codes
   a. Red: Electric
   b. Yellow: Gas, Oil; Dangerous Materials
   c. Orange: Telephone and Other Communications
   d. Blue: Water Systems
   e. Green: Sewer Systems
   f. White: Steam Systems
   g. Gray: Compressed Air
2. Warning Tape for Metallic Piping: Acid and alkali-resistant polyethylene plastic tape conforming to the width, color, and printing requirements specified above. Minimum thickness of tape shall be 0.003 inch. Tape shall have a minimum strength of 1500 psi lengthwise, and 1250 psi crosswise, with a maximum 350 percent elongation.
3. Detectable Warning Tape for Non-Metallic Piping: Polyethylene plastic tape conforming to the width, color, and printing requirements specified above. Minimum thickness of the tape shall be 0.004 inch. Tape shall have a minimum strength of 1500 psi lengthwise and 1250 psi crosswise. Tape shall be manufactured with integral wires, foil backing, or other means of enabling detection by a metal detector when tape is buried up to 3 feet deep. Encase metallic element of the tape in a protective jacket or provide with other means of corrosion protection.

2.5 DETECTION WIRE FOR NON-METALLIC PIPING

A. Detection wire shall be insulated single strand, solid copper with a minimum of **8 AWG**.

2.6 SUBSEQUENT BACKFILL

A. Conform to on-site or imported structural backfill in Section 312000, Earthwork.

2.7 CONTROLLED DENSITY FILL (CDF) (IN TRENCHES)

A. Provide non-structural CDF, from bottom of trench to finish subgrade of subbase or base material, that can be excavated by hand and produce unconfined compressive 28-day strengths from 50-psi to a maximum of 150-psi. Provide aggregate no larger than 3/8 inch top size. The 3/8 inch aggregate shall not comprise more than 30% of the total aggregate content.

B. Cement: Conform to the standards as set forth in ASTM C150, Type II Cement.

E. The Contractor will be **held responsible** for any damage to existing curbs, gutters, sidewalks and driveways. Any stains shall be cleaned by sandblasting or any other method satisfactory to the County appointed Construction Manager.

F. Any miscellaneous asphalt concrete placed beyond the limits, as shown on the Plans or as directed by the County appointed Construction Manager, and resulting from the Contractor's operations, shall be at the Contractor's expense, and no additional compensation will be allowed therefore.

## 3.11 JOINTS

A. Construct joints to ensure continuous bond between adjoining paving sections in accordance with the following guidelines:
   1. Construct joints free of depressions with same texture and smoothness as other sections of asphalt course.
   2. Clean contact surfaces and apply tack coat.
   3. Longitudinal joints in the top layer must match lane lines. Offset longitudinal joints in successive courses a minimum of 6 inches.
   4. Offset transverse joints in successive courses a minimum of 24 inches.
   5. Compact joints as soon as hot mix asphalt will bear roller weight without excessive displacement.
   6. Vertical longitudinal joints of more than 0.15 foot **are** not allowed at any time between adjacent lanes open to traffic.
   7. For an HMA thickness of:
      a. 0.15 foot or less, the distance between the ends of the adjacent surfaced lanes at the end of each day's work must not be greater than can be completed in the following day of normal paving.
      b. Greater than 0.15 foot, HMA shall be placed on adjacent traveled way lanes or shoulder such that at the end of each work shift the distance between the ends of HMA layers on adjacent lanes is from 5 to 10 feet. Place additional HMA along the transverse edge at each lane's end and along the exposed longitudinal edges between adjacent lanes. Hand rake and compact the additional HMA to form temporary conforms. Kraft paper or other authorized release agents may be placed under the conform tapers to facilitate the taper removal when paving activities resume.
   8. If placing HMA against the edge of existing pavement, sawcut or grind the pavement straight and vertical along the joint and remove extraneous material.

## 3.12 COMPACTION

A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact in accordance with Section 3.7.

B. Compaction Requirements: Compacting shall be performed to achieve not less than ninety-five percent (95%) of the maximum theoretical density. Acceptance testing shall be performed using California Test Method (CT) 375, as directed by the County appointed Construction

C. Finish Rolling: Finish roll paved surfaces to remove roller marks while asphalt is still warm.

D. Edge Shaping: While surface is being compacted and finished, trim edges of pavement to proper alignment. Bevel edges while still hot, with back of rake or smooth iron. Compact thoroughly

using tamper or other satisfactory method. Contractor to install restraint edging in locations indicated on the plans.

E. Repairs: Remove paved areas that are defective or contaminated with foreign materials and replace with fresh asphalt. Compact by rolling to specified density and surface smoothness.

F. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened. Erect barricades to protect paving from traffic until mixture has cooled enough not to become marked.

## 3.13 ~~SMOOTHNESS CORRECTIONS~~

A. ~~For areas that require pavement smoothness determined using an inertial profiler, the pavement surface must:~~
1. ~~Have no areas of localized roughness with an International Roughness Index greater than 160 in/mi~~
2. ~~Comply with the Mean Roughness Index requirements shown in the following table for a 0.1-mile section:~~

~~HMA Pavement Smoothness Acceptance Criteria~~

| ~~HMA Thickness~~ | ~~Mean Roughness Index Requirement~~ |
|---|---|
| ~~> 0.20 foot~~ | ~~60 in/mi or less~~ |
| ~~≤ 0.20 foot~~ | ~~75 in/mi or less~~ |

~~Note: These requirements do not apply to the open graded friction course (OGFC) surface.~~

B. ~~The final surface of HMA must comply with the Mean Roughness Index requirements before placing open graded friction courses (OGFC). Correct pavement to the Mean Roughness Index specifications. Areas of localized roughness greater than 160 in/mi must be corrected regardless of the Mean Roughness Index values of a 0.1-mile section.~~

C. ~~Should the newly paved surface fail to comply with parts A & B, the Contractor shall, at the Contractor's own expense, perform corrective measures including grinding the pavement to within specified tolerances, removing and replacing the pavement, or placing an overlay of HMA. Do not start corrective work until the method is authorized. Such corrective measures shall be approved by the County appointed Construction Manager. Failure to obtain County approval of proposed corrective measures may result in additional corrective measures, all at the Contractor's sole expense, and no additional compensation will be allowed therefore.~~

D. ~~Do not use equipment with carbide cutting teeth to grind the pavement unless authorized.~~

E. ~~Smoothness corrections must have at least 75 percent of the specified HMA thickness. If ordered, core the pavement at the locations selected by the Engineer. Coring, including traffic control, is change order work. Remove and replace deficient pavement areas where the overlay thickness is less than 75 percent of the thickness specified.~~

F. ~~Corrected HMA pavement areas must be uniform rectangles with edges:~~
1. ~~Parallel to the nearest HMA pavement edge or lane line~~
2. ~~Perpendicular to the pavement centerline~~

work and plan accordingly, and furnish all required fittings. Install system in such a manner to avoid conflicts with planting, utilities and architectural features.

C. Do not install the irrigation system as shown on the Drawings when it is obvious in the field that obstructions, grade differences or discrepancies in arc dimensions exist that might not have been considered. Bring such obstruction or differences to the attention of the Project Representative. Notify and coordinate irrigation Work with applicable contractors for location and installation of piping and sleeves through or under walls, pavement and structures. In the event this notification is not given, the Contractor shall assume full responsibility for any revision necessary.

1.9 SEQUENCING AND SCHEDULING

A. Acceptance: Do not install main line trenching prior to acceptance by Project Representative of rough grades completed under another Section.

B. Coordination: Coordinate with the all other trades the sleeving, power requirements of the project, prior to the start of construction.

1.10 INSTRUCTION

A. After the system has been installed and approved, the Contractor shall instruct the Project Representative and or Maintenance Contractor, in complete operation and maintenance of the irrigation system.

## PART 2 - MATERIALS

2.1 PIPE AND FITTINGS

~~A. All pipe shall be manufactured from purple-colored PVC material and shall be printed on two sides with the wording "CAUTION – RECYCLED WATER ".~~

B. PVC Pressure Mainline pipe and fittings.

1. Pressure mainline piping:

a. **4" AND LARGER**: Shall be polyvinylchloride (PVC) 1120-Class 200 SDR 21, with rubber gasketed bell connections;

b. **3" AND SMALLER**: Shall be PVC 1120-Schedule 40 plastic pipe. Pipe shall be made from NSF approved Type 1, Grade 1 PVC compound conforming to ASTM D1785.

2. Class 200 Pipe shall be made from an NSF approved Type 1, Grade 1 PVC with a cell classification of 12454 per ASTM D1784.

3. Schedule 40 pipe shall be manufactured in strict compliance to ASTM D1785 and D2665 (where applicable), consistently meeting and/or exceeding the Quality Assurance test requirements of these standards with regard to material, workmanship, burst pressure, flattening, and extrusion quality.

4. All PVC pipe shall bear the following markings:

a. Manufacturer's name

# SECTION 329200

# TURF AND GRASSES

## PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

### 1.2 SUMMARY

A. Section Includes:

1. Seeding.
2. Hydroseeding.

B. Related Requirements:

1. Special Provisions Section 17 “Clearing and Grubbing”
2. Section 329113 “Soil Preparation”
3. Section 329119 “Landscape Finish Grading”
4. Section 320190 “Operation and Maintenance of Plantings”

### 1.3 DEFINITIONS

A. Finish Grade: Elevation of finished surface of planting soil.

B. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. They also include substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.

C. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.

D. Planting Soil: Existing, on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. See Section 329113 "Soil Preparation" and drawing designations for planting soils.

E. Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.

## 1.4 INFORMATIONAL SUBMITTALS

A. Certification of Grass Seed: From seed vendor for each grass-seed monostand or mixture, stating the botanical and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the year of production and date of packaging.

1. Certification of each seed mixture for turfgrass sod plugs. Include identification of source and name and telephone number of supplier.

B. Product Certificates: For fertilizers, pesticides and herbicides (if allowed) from manufacturer.

## 1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of turf and grasslands during a calendar year. Submit before expiration of required maintenance periods.

## 1.6 QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful turf and meadow establishment.

1. Professional Membership: Installer shall be a member in good standing of either the National Association of Landscape Professionals or AmericanHort.
2. Experience: Five years' experience in turf and/or seeding installation similar in type and scale.
3. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.

## 1.7 DELIVERY, STORAGE, AND HANDLING

A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with state and Federal laws, as applicable.

B. Bulk Materials:

1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff; and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk materials with appropriate certificates.

## 1.8 FIELD CONDITIONS

A. Coordinate site preparation and seeding operations to ensure that seeding occurs in in fall or early spring when moisture and soil temperatures are favorable for plant establishment.

B. Planting Restrictions: Coordinate planting periods with initial maintenance periods to provide required maintenance from date of planting completion.

C. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit planting to be performed when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

## PART 2 - PRODUCTS

### 2.1 SEED

A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Rules for Testing Seeds" for purity and germination tolerances.

B. Seed Species:

Quality: % Purity, % Germination, % Pure Live Seed as required to successfully establish grass and meadow areas with full coverage and species distributed evenly throughout the seeded area.

C. Grass-Seed Mix: Fescue Mix

1. Products: Subject to compliance with requirements, provide the following:
   a. Pacific Coast Seed, Red Fescue Mix as indicated in Plans, or approved equivalent.

### 2.2 MEADOW GRASSES AND FORBS

A. Perennial Meadow Grassland and Forb Mixes.

1. Pacific Coast Seed, as indicated in Plans, or approved equivalent.

B. Seed Carrier: As recommended by seed provider and installer.

### 2.3 MULCHES

A. Straw Mulch: Pacific Coast Seed Hydrostraw or approved equivalent. Apply at 4,000 lbs per acre.

### 2.4 FERTILIZER

A. Biosol 7-2-1 at 1,000 lbs. per acre.

### 2.5 PESTICIDES

A. General: Refer to “Soil Preparation” Section.

## 2.6 EROSION-CONTROL MATERIALS

A. Erosion-Control Blankets: Biodegradable wood excelsior, straw, or coconut-fiber mat enclosed in a photodegradable plastic mesh. Include manufacturer's recommended steel wire staples, 6 inches long.

B. Erosion-Control Fiber Mesh: Biodegradable burlap or spun-coir mesh, a minimum of 0.92 lb/sq. yd. with 50 to 65 percent open area. Include manufacturer's recommended steel wire staples, 6 inches long.

# PART 3 - EXECUTION

## 3.1 EXAMINATION

A. Examine areas to be planted for compliance with requirements and other conditions affecting installation and performance of the Work.

1. Verify that no foreign or deleterious material or liquid such as paint, paint washout, concrete slurry, concrete layers or chunks, cement, plaster, oils, gasoline, diesel fuel, paint thinner, turpentine, tar, roofing compound, or acid has been deposited in soil within a planting area.
2. Suspend planting operations during periods of excessive soil moisture until the moisture content reaches acceptable levels to attain the required results.
3. Uniformly moisten excessively dry soil that is not workable or which is dusty.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

C. If contamination by foreign or deleterious material or liquid is present in soil within a planting area, remove the soil and contamination as directed by Landscape Architect and replace with new planting soil.

## 3.2 PREPARATION

A. Protect structures; utilities; sidewalks; pavements; and other facilities, trees, shrubs, and plantings from damage caused by planting operations.

1. Protect adjacent and adjoining areas from hydromulching overspray.

B. Fertilizer: Apply per manufacturer's recommendations in Planting Areas PA-05A and PA-05B and PA-06.

C. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

## 3.3 SEEDING

A. Sow seed with spreader or seeding machine. Do not broadcast or drop seed when wind velocity exceeds 5 mph.

1. Before sowing, mix seed with seed carrier at a ratio of not less than **(2)** parts seed carrier to one part seed.
2. Evenly distribute seed by sowing equal quantities in two directions at right angles to each other.
3. Do not use wet seed or seed that is moldy or otherwise damaged.
4. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.

B. Sow seed at a total rates as indicated in the Plans

C. Rake seed lightly into top 1/8 inch of soil, roll lightly, and water with fine spray.

D. If required to protect seeded areas from hot, dry weather or drying winds, apply mulch within 24 hours after completing seeding operations. Soak areas, scatter mulch uniformly to a thickness of 3/16 inch , and roll surface smooth.

**E. Water newly planted areas and keep moist until planting is established.**

F. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a continuous blanket over seeded areas. Spread by hand, blower, or other suitable equipment.

1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.

## 3.4 HYDROMULCH

A. **Hydromulch**: Mix specified strawmulch mulch in water, using equipment specifically designed for hydromulch application. Continue mixing until uniformly blended into homogeneous slurry suitable for hydraulic application.

1. Mix slurry with manufacturer's recommended tackifier.
2. Spray-apply hydromulch to all seeded areas. Apply slurry at a rate so that mulch component is deposited at not less than 2000-lb/acre dry weight.

## 3.5 MEADOW MAINTENANCE

A. Provide full maintenance by skilled employees of landscape Installer. Begin maintenance immediately after each area is seeded and continue for duration of Establishment Period as indicated in Section: 320190 “Operation and Maintenance of Plantings”.

B. Maintain and establish meadow by watering, weeding, mowing, trimming, replanting, and performing other operations as required to establish a healthy, viable meadow. Roll, regrade, and replant bare or eroded areas and remulch. Provide materials and installation the same as those used in the original installation.

1. Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and meadow damaged or lost in areas of subsidence.
2. In areas where mulch has been disturbed by wind or maintenance operations, add new mulch and anchor as required to prevent displacement.

3. Apply treatments as required to keep meadow and soil free of pests and pathogens or disease. Use integrated pest management practices whenever possible to minimize the use of pesticides and reduce hazards.

C. Watering: verify and maintain turf-watering equipment (automatic irrigation system or temporary watering system) to keep meadow uniformly moist during germination and establishment. Do not apply additional fertilizer or water during the summer.

D. Criteria for Preliminary Acceptance:

1. Meadow and Grassland areas shall be fully germinated, and established with species that are consistent with the seed mixes.

2. No bare areas greater than 3 feet by 3 feet

3. Weed species shall not exceed 10% of seeded area.

## 3.6 WEED CONTROL AND PESTICIDE APPLICATION

A. Maintain weed control during establishment period using best practices.

B. Apply pesticides and other chemical products and biological control agents according to requirements of authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

C. Post-Emergent Herbicides (Selective and Nonselective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's written recommendations.

## 3.7 CLEANUP AND PROTECTION

A. Promptly remove soil and debris created by turf work from paved areas. Clean wheels of vehicles before leaving site to avoid tracking soil onto roads, walks, or other paved areas.

B. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.

C. Erect temporary fencing or barricades and warning signs as required to protect newly planted areas from traffic. Maintain fencing and barricades throughout initial maintenance period and remove after plantings are established.

D. Remove nondegradable erosion-control measures after grass establishment period.

END OF SECTION 329200

E. Do not store plastic pipe and fittings in direct sunlight.

F. Protect pipe, fittings, flanges, seals and specialties from moisture, dirt and damage.

G. Protect linings and coatings from damage.

H. Handle precast boxes, vaults and other precast structures according to manufacturer's written instructions.

I. Protect imported bedding and backfill material from contamination by other materials.

1.9 COORDINATION

A. Coordinate connection to existing water mains with water utility supplying water.

B. Coordinate piping materials, sizes, entry locations, and pressure requirements with building domestic water distribution piping and fire protection piping.

PART 2 - PRODUCTS

2.1 **PVC PIPE: SIZES 1/8 INCH THROUGH 4 INCH**

**A. Pipe and Fittings: AWWA C900, Class 200 psi.**

**B. Joints: Solvent weld in conformance with County specifications.**

2.2 **PVC PIPE: SIZES 6 INCH THROUGH 8 INCH**

**A. Pipe and Fittings: AWWA C900, Class 200 psi.**

**B. Joints: Bell and spigot with Megalugs.**

2.3 **DIP PIPE: ABOVE GROUND PIPING**

A. Pressure Class 200 pipe conforming to AWWA C151, AWWA Manual M41 and standard thickness per AWWA C150. U.S. Pipe, American Cast Iron Pipe Company, or approved equal.

B. Fittings: Provide fittings with pressure rating greater than or equal to that of the adjoining pipe.

C. Pipe and Fitting Lining: Cement Mortar, AWWA C104.

D. Pipe and Fitting Coating: Asphaltic, AWWA C151 or C115.

E. Fittings

1. Standard: AWWA C110, sizes 4 inch through 48 inch.
2. Compact: AWWA C153, sizes 4 inch through 24 inch.
3. All fittings shall be fusion epoxy coated per AWWA C116.

F. Exterior Soil Corrosion Protection for Pipe and Fittings: Polyethylene encasement, AWWA C105.

G. Restrained Joints:

1. Flanged Joint: Provide bolts, nuts, and gaskets in conformance with AWWA C115. Gaskets shall conform to the requirements specified in AWWA C111. Unless otherwise required, above ground flange assembly bolts shall be standard hex-head, cadmium plated machine bolts with American Standard Heavy, hot–pressed, cadmium plated hexagonal nuts. Buried flange nuts and bolts shall be as above except they shall be of Type 304 stainless steel.
2. Push-On Bell and Spigot Joint: Provide shape of pipe ends and fitting ends, gaskets, and lubricant for joint assembly conforming to AWWA C111 with "Field Lok Gasket," sizes 4 inch through 24 inch, "TR Flex," sizes 4 inch through 64 inch; both by U. S. Pipe, or approved equal. "Megalug" restraint harness, EBAA Iron, or approved equal.
3. Mechanical Joint: Pressure rating of 350 psi. Dimensional and material requirements for pipe ends, glands, bolts and nuts, and gaskets shall conform to AWWA C111 with "Megalug," sizes 3 inch through 48 inch, EBAA Iron, or approved equal.
4. Grooved and Shouldered Joints: AWWA C150, AWWA C151 and AWWA C606. 24 inch maximum size.

H. Insulating Joints:

1. Provide a rubber-gasketed or other suitable approved type of insulating joint or dielectric coupling which will effectively prevent metal-to-metal contact at the joint between adjacent sections of dissimilar metals.
2. Provide joint of the flanged type with insulating gasket, insulating bolt sleeves, and insulating washers.
3. Provide gasket of the dielectric type, full face, as recommended in AWWA C115.
4. Provide bolts and nuts as recommended in AWWA C115.

I. Couplings:

1. Plain End Pipe to Plain End Pipe: Ductile iron or steel bolted couplings, manufacturer's shop coating with low alloy steel bolts and nuts. Steel couplings to conform to AWWA C219. Stainless steel bolts and nuts and special coatings available for extra protection from corrosion. Smith-Blair, Inc., Dresser, or approved equal.
2. Plain End Pipe to Flanged Pipe: 1) Ductile iron or steel bolted flanged coupling adapters, manufacturer's shop coating with low alloy steel bolts and nuts. Steel flanged couplings to conform to AWWA C219. Stainless steel bolts and nuts and special coatings available for extra protection from corrosion. Smith-Blair, Inc., Dresser, or approved equal., or 2) restrained flange adapter, "Megaflange," sizes 3 inch through 48 inch, EBAA Iron, or approved equal.

## 2.4 FLEXIBLE CONNECTORS

A. Flanged Coupling Adapters for plain end pipe at fittings, valves and equipment shall be Dresser Style 127 or 128, similar models by ITT; Baker Coupling Company or approved equal. Nuts, bolts and other hardware shall be Type 304 stainless steel.

B. Mechanical Couplings shall be rated for a minimum working pressure of 150 psi. The barrel shall be a minimum 10 inches long. Couplings shall be cleaned and shop primed with manufacturer's standard rust inhibitive primer. Mechanical couplings shall be Smith-Blair, Romac, JCM, Apac or approved equal, with stainless steel nuts, bolts, and threaded rods.

C. Flexible Coupling for Steel Pipe shall be Dresser Coupling Style 38 with EPDM gaskets, or approved equal.

## 2.5 FLEXIBLE EXPANSION JOINTS

A. Flexible expansion joints shall be installed at locations indicated on the Plans and shall be manufactured of ductile iron conforming to the material requirements of ASTM A536 and AWWA C153.

B. Each flexible expansion joint shall be pressure tested prior to shipment against its own restraint to a minimum of 250 psi. A minimum 2:1 safety factor, determined from the published pressure rating, shall apply.

C. Each flexible expansion joint shall consist of an expansion joint designed and cast as an integral part of a ball and socket type flexible joint, having a minimum per ball deflection of 15º, and 6 inches minimum expansion. The flexible expansion fitting shall not expand or exert an axial imparting thrust under internal water pressure. The flexible expansion fitting shall not increase or decrease the internal water volume as the unit expands or contracts.

D. All internal surfaces (wetted parts) shall be lined with a minimum of 15 mils of fusion bonded epoxy conforming to the applicable requirements of AWWA C213. Sealing gaskets shall be constructed of EPDM. The coating and gaskets shall meet ANSI/NSF-61.

E. Exterior surfaces shall be coated with a minimum of 6 mils of fusion bonded epoxy conforming to the applicable requirements of AWWA C116

F. Polyethylene sleeves, meeting AWWA C105, shall be included for direct buried applications.

G. Flanged or mechanical Joint: Flexible expansion joint shall be Force Balanced FLEX-TEND, sizes 3 inch through 48 inch, as manufactured by EBAA Iron, or approved equal.

H. Flanged Joint: Starflex, Series 5000, Star Pipe Products, or approved equal.

I. Plain End to Plain End Pipe: "Xtra Flex," sizes 4 inch through 24 inch, U. S. Pipe, or approved equal.

## 2.6 HIGH DEFLECTION FITTINGS/BALL JOINTS

A. Plain End Pipe: Xtra Flex Restrained Joint High Deflection Fittings, 4 inch through 24 inch, U. S. Pipe, or approved equal.

B. Mechanical or Flanged Joint: Flex 900, 4 inch through 12 inch, EBAA Iron, or approved equal.

## 2.7 GATE VALVES

A. Provide valves conforming to AWWA C500 or AWWA C509

B. Valves shall be resilient-seated, with non-rising stem, gray or ductile-iron body and bonnet, with bronze or gray or ductile-iron gate, bronze stem and square stem operating nut unless noted otherwise.

C. [Metal seated, AWWA C500, and rubber seated, AWWA C504, are also available.]

D. All bolts, nuts and washers, except operating nut, shall be stainless steel.

E. Stem operating nut to be 2 inches square and open counter-clockwise.

F. Stem extensions shall be installed to bring the stem operating nut to within 2 feet of finish grade where the depth from finish grade to the stem operating nut exceeds 4 feet.

G. Equip valves in pump stations and other interior or vault installations with hand-wheels.

H. Provide protective epoxy interior and exterior coating according to AWWA C550 and manufacturer's recommendations.

I. For the domestic water system, valves shall also conform to NSF 61.

J. Service line Valves and fittings, 2 inch and smaller shall be in accordance with AWWA C800

K. Where a post indicator is shown, provide valve with an indicator post flange.

L. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the project include, but are not limited to, the following:

1. Mueller Company
2. M&H Valve Company
3. Crane Company, or approved equal

## 2.8 SWING CHECK VALVES

A. Provide swing-check type valves conforming to AWWA C508.

B. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Project include, but are not limited to, the following:

1. Mueller Company
2. M&H Valve Company
3. DeZurik/APCO
4. Watts, or approved equal

## 2.9 BALL VALVES

A. Provide ball valves (6 inch through 48 inch) per AWWA C507 as manufactured by Crane Company, or approved equal.

B. Provide ball valves (2 inches and smaller) conforming to AWWA C800 as manufactured by Mueller 300 Series, Ford, or approved equal.

C. Valves shall open by counterclockwise rotation of the valve stem.

D. Provide valves with ends as appropriate for the adjoining pipe.

E. Provide valve with lockable operating nut or handle as shown on the Plans.

## 2.10 AIR RELEASE, AIR/VACUUM AND COMBINATION AIR VALVES

A. Air release and vacuum valves: Provide valve and service size as shown on the Plans. Valve shall have cast-iron single valve body, and shall conform to AWWA C512. A compound lever system shall have a maximum operating pressure of 300 psi. Provide a protective cap for the outlet of the valve. Provide universal air-vacuum type valves, Crispin, DeZurik/APCO or approved equal.

B. Combination air valves: Provide valve and service size as shown on the Plans. Valve shall have cast-iron single valve or double valve body, and shall conform to AWWA C512. A simple or compound lever system shall have a maximum operating pressure of 300 psi. Provide a protective cap for the outlet of the valve.

C. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the project include, but are not limited to, the following:

1. Crispin
2. DeZurik/APCO, or approved equal

## 2.11 BLOW-OFF VALVES

A. Provide valve and service size as shown in the Plans. Provide 2-inch valves at low points of the piping system, and 4 inch valves at dead-ends of the piping system, unless otherwise directed by the Engineer.

B. 2-inch blow-off shall have a 2-inch vertical female iron pipe (FIP) inlet and a 2-inch normal pressure and temperature (NPT) nozzle outlet with cap. Valve shall open by counterclockwise rotation of a top-mounted 9/16-inch square operating nut. All working parts shall be serviceable without excavation. Kupferle/Truflo Model TF550, or approved equal.

C. 4-inch blow-off shall have all brass principal working parts, 4-inch inlet and outlet and is self-draining and non-freezing. Valve shall open by counterclockwise rotation of a top-mounted 2-inch square operating nut. All working parts shall be serviceable without excavation.

D. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Project include, but are not limited to, the following:

E. Kupferle/ MainGuard #7600, or approved equal

## 2.12 PRESSURE-REDUCING VALVES

A. Valve: Automatic, pilot-operated, cast-iron body with interior coating according to AWWA C550. 250 psi working-pressure, bronze pressure-reducing pilot valve and tubing, and means for discharge pressure adjustment.

B. Valves shall have flanged ends. Valves sized 3 inches or smaller may have screwed ends.

C. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Project include, but are not limited to, the following:

1. Cla-Val Company
2. Bermad
3. Ames Company, or approved equal

## 2.13 SERVICE CONNECTIONS AND WATER METERS

A. Coordinate with Menlo Park for water service connection and water meters. The City to provide meter, water service line, and tap to water main depending on pipe material. Refer to Menlo Park Municipal Water Connection Guidelines.

## 2.14 VALVE BOXES, METER BOXES, FRAMES AND COVERS

A. Water Valve Box: Provide pre-cast concrete valve box for each buried valve. Provide box with steel or cast iron traffic cover marked “WATER”. Christy Model G5 with G5C cover or approved equal.

B. Valve or Meter Boxes: Contractor shall verify box size required for water system appurtenances as shown in the Construction Documents. Provide a precast concrete utility box for each buried appurtenance. Provide a traffic-rated lid for H20 loading. A non-traffic rated lid may be used for boxes located in landscape areas. Christy, or approved equal.

## 2.15 BACKFLOW PREVENTER - REDUCED PRESSURE PRINCIPLE ASSEMBLIES (RPPA)

A. Provide RPPA consisting of two independently operating check valves with a pressure differential relief valve located between the two check valves, two shut-off valves and four test cocks. RPPA shall be tamper-proof and conform to AWWA C511. Valve shall have an outside screw (OS) gate valve on inlet and outlet, and strainer on inlet. Include test cocks and pressure-differential relief valve with ASME A112.1.2 air gap fitting located between 2 positive-seating check valves for continuous-pressure application.

B. Body:

1. 2 inch and Smaller: Bronze with threaded ends
2. 2 ½ inch and Larger: Bronze, cast iron steel, or stainless steel with flanged ends

C. Interior Lining: AWWA C550, epoxy coating for cast iron or steel bodies

D. Interior Components: Corrosion-resistant materials

E. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Project include, but are not limited to, the following:

1. Cla-Val Company
2. Ames Company
3. Febco, CMB Industries, Inc.
4. Hersey Products, Inc.
5. Watts
6. Zurn/Wilkins, or approved equal

F. Backflow prevention assemblies must be approved by the University of Southern California Foundation for Cross-Connection Control, installed per City Standards, tested by an approved backflow prevention tester listed on the San Mateo County Environmental Health Service's list of Certified Backflow Prevention Testers, and identified with a County tag. Assemblies must be tested by owner upon installation and annual thereafter.

## 2.16 BACKFLOW PREVENTER - DOUBLE CHECK DETECTOR ASSEMBLY (DCDA)

A. Provide a cast-iron body DCDA consisting of mainline double check assemblies in parallel with a bypass double check and meter assembly, two shut-off valves and four test cocks. DCDA shall be tamper-proof and conform to AWWA C510. FM approved or UL listed, with outside screw and yoke (OS&Y) gate valve on inlet and outlet, and strainer on inlet. Include two positive-seating check valves and test cocks, and bypass with displacement-type water meter, valves, and double-check backflow preventer, for continuous pressure application.

B. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Project include, but are not limited to, the following:

1. Cla-Val Company
2. Ames Company
3. Febco, CMB Industries, Inc.
4. Hersey Products, Inc.
5. Zurn/Wilkins, or approved equal

C. Backflow prevention assemblies must be approved by the University of Southern California Foundation for Cross-Connection Control, installed per City Standards, tested by an approved backflow prevention tester listed on the San Mateo County Environmental Health Servie's list of Certified Backflow Prevention Testers, and identified with a County tag. Assemblies must be tested by owner upon installation and annual thereafter.

## 2.17 POST INDICATOR VALVE

A. General: UL 789, FM approved, vertical-type, cast-iron body with operating wrench extension rod, and adjustable cast-iron barrel of length required for depth of bury of valve.

B. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Project include, but are not limited to, the following:

1. Mueller Company

2. Clow Corporation
3. American Cast Iron Company

## 2.18 FIRE DEPARTMENT CONNECTION

A. Exposed, sidewalk or Freestanding Type Fire Department Connection: UL 405, cast brass body with threaded inlets according to NFPA 1963 and matching local fire department hose threads and threaded bottom outlet. Include lugged caps, gaskets and chains; lugged swivel connections and drop clapper for each hose-connection inlet; 18-inch high brass sleeve; and round escutcheon plate. Number of inlets shall be as shown on the Plans. Clapper and spring check inlets shall each have a minimum capacity of 250 gpm, and be furnished with a cap and chain. Outlet shall be sized for simultaneous use of all inlets. Connection shall be branded "Building XX".

1. 2-Way FDC: Connection shall conform to UL 405 or FM 1530. Elkhart, Croker, or approved equal.
2. 3-Way FDC: Connection shall be subject to approval by the local water department or fire marshal. Elkhart, Croker, Potter-Roemer or approved equal.
3. 4-Way FDC: Connection shall conform to UL 405. Potter-Roemer, Croker, or approved equal.
4. 6-Way FDC: Connection shall be subject to approval by the local water department or fire marshal. Croker, Potter-Roemer or approved equal.

## 2.19 FIRE HYDRANTS

A. Provide two 2 ½ inch and one 4 ½ inch outlets, with a 6-inch nominal inside diameter inlet and break-away type bolts. Hydrant shall have a working pressure of 250 psi and shall conform to AWWA C503, and be UL listed and FM approved. Provide hydrants of one manufacturer. Clow model 76 series, subject to approval of the Owner and fire marshal.

## 2.20 SERVICE SADDLES AND CORPORATION STOPS

A. Service Saddles: Saddles shall conform to AWWA C800 and NSF 61.

1. For DIP: Provide bronze or stainless steel body, double strap type with a 200 psi maximum working pressure. Mueller BR2 Series, Ford, or approved equal.
2. For PVC: Provide bronze body, wide strap type. Mueller H-13000 Series, Ford, or approved equal.
3. For PE: Per manufacturer's recommendations.

B. Corporation Stops: Provide ground key type; bronze conforming to ASTM B61 or ASTM B62, for a working pressure of 100 psi and suitable for the working pressure of the system.

1. Ends shall be suitable for adjoining pipe and connections, solder-joint, or flared tube compression type joint.
2. Threaded ends shall conform to AWWA C800.
3. Coupling nut for connection to flared copper tubing shall conform to ASME B16.26.
4. Mueller H-15000 Series with "CC" threads and a copper flare straight connection outlet, Ford, or approved equal.

2.21 IDENTIFICATION MATERIALS AND DEVICES

A. Warning Tape: Provide warning tape consisting of metallic foil bonded to solid blue plastic film not less than 3 inches wide. Film shall be inert polyethylene plastic. Film and foil shall each not be less than 1 mil thick. The tape continuously shall have printed black-letter, not less than ¾ inch high, message reading "CAUTION: WATER MAIN BELOW".

B. Tracer Wire for Nonmetallic Piping: Provide 8 gauge, coated copper or aluminum, with blue THW, THWN, or THHN rated insulation, in sufficient length to be continuous over each separate run of nonmetallic pipe. Wire shall be tied in at all valves.

PART 3 - EXECUTION

3.1 PIPE INSTALLATION

A. Pipe Depth and Trench Configuration: Conform to elevations, profiles and typical trench section(s) shown on the Plans.

B. Excavation, Bedding, Backfill, and Compaction: Section 312100 – Utility Trenching and Backfill.

C. Handling: Carefully handle during loading, hauling, unloading and placing operations to avoid breakage or damage. Use strap type slings for lifting and placing; no chains or hooks will be permitted. Comply with manufacturer's recommendations.

D. Pipe laying and jointing:

1. Provide proper facilities for lowering sections of pipe into trenches.
2. Do not drop or dump pipe, fittings, valves, or any other water line material into trenches.
3. Cut pipe accurately to length established at the site and work into place without springing or forcing. Replace any pipe or fitting that does not allow sufficient space for proper installation of jointing material.
4. Blocking or wedging between bells and spigots will not be permitted. Lay bell-and-spigot pipe with the bell end pointing in the direction of laying.
5. Grade the pipeline in straight lines; avoid the formation of dips and low points.
6. Support pipe at proper elevation and grade.
7. Provide secure firm, uniform support. Wood support blocking will not be permitted.
8. Lay pipe so that the full length of each section of pipe and each fitting rests solidly on the pipe bedding; excavate recesses to accommodate bells, joints, and couplings.
9. Provide anchors and supports where indicated and where necessary for fastening work into place.
10. Make proper provision for expansion and contraction of pipelines.
11. Keep trenches free of water until joints have been properly made.
12. Do not lay pipe when conditions of trench or weather prevent proper installation.
13. All fittings shall be blocked with appropriately sized thrust blocks as shown on the Plans.

E. Installation of Tracer Wire:

1. Install a continuous length of tracer wire for the full length of each run of nonmetallic pipe.

2. Attach wire to top of pipe in such manner that it will not be displaced during construction operations.
3. Form a mechanically and electrically continuous line throughout the pipeline, extending to the nearest valve or other pipeline appurtenance. Extend the wire up the outside of the valve box/riser and cut a hole that is 8 inches from the top, extend a 12 inch wire lead to the inside of the box. At other pipeline appurtenances, terminate the 12 inch wire lead inside the enclosure.
4. Splice wire with a splicing device consisting of and electro-tin plated seamless copper sleeve conductor. Install as recommended by the manufacturer. Wrap splices and damaged insulation with electrician's tape.

F. Installation of Warning Tape

1. Install tape approximately 1 foot above and along the centerline of the pipe.
2. Where tape is not continuous, lap tape ends a minimum of 2 feet.

G. Curved Alignment: When necessary to conform to the alignment specifically indicated, lay pipe on a curved alignment by means of asymmetrical closure of joints or bending of the pipe barrel. If necessary, use shorter than the standard lengths of pipe to achieve curvature specified. Do not exceed the recommendations of the pipe manufacture for deflections at the joints or pipe bending.

H. Connections to Existing Lines:

1. Make connections to existing water lines after approval is obtained and with a minimum interruption of service on the existing line.
2. Make connections to existing lines under pressure in accordance with the recommended procedures of a manufacturer of pipe of which the line being tapped is made.

I. Closure: Close open ends of pipes and appurtenance openings at the end of each day's work or when work is not in progress.

## 3.2 INSTALLATION OF DUCTILE-IRON PIPING

A. Install pipe and fittings in accordance with requirements of AWWA C600 for pipe installation, joint assembly, valve-and-fitting installation, and thrust restraint.

B. Jointing:

1. Provide push-on joints with the gaskets and lubricant specified for this type joint; assemble in accordance with the applicable requirements of AWWA C600 for joint assembly.
2. Provide mechanical joints with the gaskets, glands, bolts, and nuts specified for this type joint; assemble in accordance with the applicable requirements of AWWA C600 for joint assembly and with the recommendations of AWWA C111.
3. Provide flanged joints with the gaskets, bolts, and nuts specified for this type joint.
4. Install flanged joints up tight; avoid undue strain on flanges, fittings, valves, and other equipment and accessories.
5. Align bolt holes for each flanged joint.
6. Use full size bolts for the bolt holes; use of undersized bolts to make up for misalignment of bolt holes or for any other purpose will not be permitted.

7. Do not allow adjoining flange faces to be out of parallel to such degree that the flanged joint cannot be made watertight without over straining the flange.
8. Where flanged pipe and fitting have dimensions that do not allow the installation of a proper flanged joint as specified, replace it by one of proper dimensions.
9. Use setscrewed flanges to make flanged joints where conditions prevent the use of full-length flanged pipe. Assemble in accordance with the recommendations of the setscrewed flange manufacturer.
10. Provide insulating joints with the gaskets, sleeves, washers, bolts, and nuts previously specified for this type joint. Assemble insulating joints as specified for flanged joints. Bolts for insulating sleeves shall be full size for the bolt holes.
11. Ensure that there is no metal-to-metal contact between dissimilar metals after the joint has been assembled.

C. Exterior Protection: Completely encase buried ductile iron pipelines and underground appurtenances with polyethylene wrap. Install 8 mil linear low-density polyethylene (LLD) film or 4 mil high-density cross-laminated (HDCL) film per manufacturer's recommendations and in accordance with AWWA/ANSI C105/A21.5 and ASTM A674.

D. Pipe Anchorage: Provide concrete thrust blocks or restrained joints for pipe anchorage, except where metal harness is indicated on the Plans.

## 3.3 INSTALLATION OF POLYVINYL CHLORIDE PIPING

A. Comply with the recommendations for pipe installation, joint assembly and appurtenance installation in AWWA Manual M23.

B. Comply with the applicable requirements of AWWA C600 for joint assembly, and with the recommendations of Appendix A to AWWA C111.

C. Jointing:

1. Provide push-on joints with the elastomeric gaskets specified for this type joint, using either elastomeric-gasket bell-end pipe or elastomeric-gasket couplings.
2. For pipe-to-pipe push-on joint connections, use only pipe with push-on joint ends having factory-made bevel.
3. For push-on joint connections to metal fittings, valves, and other accessories, cut spigot end of pipe off square and re-bevel pipe end to a bevel approximately the same as that on ductile-iron pipe used for the same type of joint.
4. Use an approved lubricant recommended by the pipe manufacturer for push-on joints.
5. Assemble push-on joints for connection to fittings, valves, and other accessories in accordance with the applicable requirements of AWWA C600 for joint assembly.
6. Make compression-type joints/mechanical-joints with the gaskets, glands, bolts, nuts, and internal stiffeners previously specified for this type joint. Cut off spigot end of pipe for compression-type joint or mechanical-joint connections and do not re-bevel.
7. Assemble joints made with sleeve-type mechanical couplings in accordance with the recommendations of the coupling manufacturer using internal stiffeners as previously specified for compression-type joints.

D. Pipe Anchorage:

1. Provide concrete thrust blocks or restrained joints for pipe anchorage, except where metal harness is indicated on the Plans.

## 3.4 INSTALLATION OF VALVES

A. Gate Valves

1. Install gate valves conforming to AWWA C500 and UL 262 in accordance with the requirements of AWWA C600 for valve-and-fitting installation and with the recommendations of the Appendix (Installation, operation, and Maintenance of Gate Valves) to AWWA C509.
2. Install gate valves conforming to AWWA C509 in accordance with the requirements of AWWA C600 for valve-and-fitting installation and with the recommendations of the Appendix (Installation, Operation, and Maintenance of Gate Valves) to AWWA C509.
3. Install gate valves on PVC water mains in addition in accordance with the recommendations for appurtenance installation in AWWA Manual M23.

B. Check Valves: Install check valves in accordance with the applicable requirements of AWWA C600 for valve-and-fitting installation, except as otherwise indicated.

C. Joints:

1. Valves on DI and PVC Pipe: Mechanical joint valves for buried locations. Flanged-end valves for installation in vaults/pits.

## 3.5 INSTALLATION OF VALVE AND METER BOXES

A. Boxes shall be centered over the appurtenance so as not to transmit shock or stress. Covers shall be set flush with the surface of the finished pavement, or as shown on the Plans. Backfill shall be placed around the boxes and compacted to the specified level in a manner that will not damage or displace the box from proper alignment or grade. Misaligned boxed shall be excavated, plumbed, and backfilled at no additional cost to the Owner.

## 3.6 INSTALLATION OF FIRE HYDRANTS

A. Install fire hydrants, except for metal harness, plumbed vertical, in accordance with AWWA C600 for hydrant installation and as indicated.

B. Provide and assemble joints as specified for making and assembling the same type joints between pipe and fittings. Hydrants shall be set so that mounting bolts clear the top of finished grade by three inches so bolts may be easily replace if needed.

C. Provide metal harness as specified under pipe anchorage requirements for the respective pipeline material to which hydrant is attached.

## 3.7 SERVICE LINE CONNECTIONS TO WATER MAINS

A. City to provide water meters, water service lines, and tap connection to water main depending on pipe material.

## 3.8 INSTALLATION OF BACKFLOW PREVENTERS

A. Backflow devices shall be installed horizontal and level, with three feet minimum clearances from obstructions.

## 3.9 ANCHORAGE INSTALLATION

A. Mechanically Restrained Joints: Install where indicated for lengths indicated in accordance with manufacturer's instructions.

B. PCC Thrust Blocks: Install where required and as indicated. Bearing area indicated is to be against undisturbed earth. Allow a minimum of 24 hours curing time before introducing water into the pipeline and allow a minimum of 7 days curing time before pressure testing.

## 3.10 CONNECTION TO EXISTING

A. City to provide connection to existing water main.

## 3.11 HYDROSTATIC PRESSURE AND LEAKAGE TEST

A. General:

1. Provide all necessary materials and equipment, including water.
2. Backfill all trenches sufficient to hold pipe firmly in position.
3. Allow time for thrust blocks to cure prior to testing.
4. Flush all pipes prior to testing to remove all foreign material.
5. Perform pressure and leakage test concurrently.
6. Apply test pressure by means of a pump connected to the pipe.
7. Base test pressure on the elevation of the lowest point in the line.
8. Fill each closed valve section or bulk-headed section slowly. Expel air from section being tested by means of permanent air vents installed at high points or by means of temporary corporation cocks installed at such points. Remove and plug the temporary corporation cocks at the conclusion of the test.
9. Ensure the release of air from the line during filling, and prevent collapse due to vacuum when dewatering the line.
10. The pressure test on mortar-lined pipe shall not begin until the pipe has been filled with water for at least 24 hours to allow for absorption in the cement mortar lining.
11. Allow the system to stabilize at the test pressure before conducting the leakage test.
12. Do not operate valves in either the opening or closing direction at differential pressures above the valves rated pressure.
13. Maintain test pressure as specified for type of pipe being tested.

14. Pressure Test: Examine any exposed pipe, fittings, valves, hydrants and joints during the test, if no leaks are observed the section of line has passed the pressure test. If leaks are observed, repair any damaged or defective pipe, fittings, valves, or hydrants, and repeat the pressure test.
15. Leakage Test: Perform as specified hereafter for the type of pipe being installed.
16. After installation of the water meter, contractor to test all backflow prevention assemblies and submit passing test results to water@menlopark.org within 48 hours. Failure to submit proof of successful testing will result in shutoff of the water service.

B. Preparation for Test

1. Vents shall be provided at the high points of the system and drains provided where means of venting or draining do not exist.
2. Remove or block off, all relief valves, rupture discs, alarms, control instruments, etc. that shall not be subjected to the test pressure.
3. All discs, balls, or pistons from check valves shall be removed if they interfere with filling of the system. Open all valves between inlet and outlet of the section to be tested.
4. Connect pump and provide temporary closures for all of the external openings in the system. Use caution to insure that the closures are properly designed and strong enough to withstand the test pressure.
5. A joint previously tested in accordance with this specification may be covered or insulated.
6. Expansion joints shall be provided with temporary restraint for additional pressure under test or shall be isolated from the test.
7. Flanged joints, where blanks are inserted to isolate equipment during the test, need not be tested.

C. DIP Leakage Test: Perform in accordance with AWWA C600. Selected requirements of AWWA C600 are repeated as follows:

1. The pipe shall be subjected to a hydrostatic pressure of 50 percent above the normal operating pressure, or 150 psi, whichever is greater. In no case shall the pressure be allowed to exceed the design pressure for pipe, appurtenances, or thrust restraints.
2. Maintain the test pressure, +/- 5 psi, for a minimum of four hours.
3. No piping will be accepted if the leakage is greater than that determined by the following formula:

$$L = (S \times D \times P1/2)/133{,}200$$

L = Allowable leakage, gallons per hour.
S = Length of pipe tested, feet.
D = Nominal diameter of pipe, inches.
P = Average test pressure during the leakage test, pounds per square inch (gauge).

D. PE Pipe Leakage Test:

1. The pipe shall be subjected to a hydrostatic pressure of 50 percent above the normal operating pressure, or 150 psi, whichever is greater. In no case shall the pressure be allowed to exceed the design pressure for pipe, appurtenances, or thrust restraints.
2. Apply the test pressure and allow the pipe to stand, without makeup pressure, for sufficient time to allow for diametric expansion or pipe stretching to stabilize, approximately two to three hours.

3. After the above stabilization has occurred, return the section being tested to the test pressure. Hold the test pressure for four hours. If the pressure in the test section drops, and it is determined the drop may be the result of expansion resulting from increasing temperature, a limited amount of additional water may be added to bring the pressure back to the test pressure. Allowable amounts of make-up water, to compensate for expansion due to increasing temperature, are as shown in the following table. Make-up water is only allowed during this final test period and not during the initial stabilization described in the previous paragraph. If the additional water added is less than the allowable shown in the table and there are no visual leaks or significant pressure drops, the tested section passes the test.

| Nominal Pipe Size (in.) | Allowance for Expansion (U.S. Gals./100 Feet of Pipe) 1-Hour Test | 2-Hour Test | 3-Hour Test |
|---|---|---|---|
| 3 | 0.10 | 0.15 | 0.25 |
| 4 | 0.13 | 0.25 | 0.40 |
| 6 | 0.30 | 0.60 | 0.90 |
| 8 | 0.50 | 1.0 | 1.50 |
| 10 | 0.75 | 1.3 | 2.1 |
| 11 | 1.0 | 2.0 | 3.0 |
| 12 | 1.1 | 2.3 | 3.4 |
| 14 | 1.4 | 2.8 | 4.2 |
| 16 | 1.7 | 3.3 | 5.0 |
| 18 | 2.2 | 4.3 | 6.5 |
| 20 | 2.8 | 5.5 | 8.0 |
| 22 | 3.5 | 7.0 | 10.5 |
| 24 | 4.5 | 8.9 | 13.3 |
| 28 | 5.5 | 11.1 | 16.8 |
| 32 | 7.0 | 14.3 | 21.5 |
| 36 | 9.0 | 18.0 | 27.0 |
| 40 | 11.0 | 22.0 | 33.0 |
| 48 | 15.0 | 27.0 | 43.0 |

E. PVC Pipe Leakage Test: Perform in accordance with AWWA M23. Selected requirements of AWWA M23 are repeated as follows:

1. The pipe shall be subjected to a hydrostatic pressure of 50 percent above the normal operating pressure, or 150 psi, whichever is greater. In no case shall the pressure be allowed to exceed the design pressure for pipe, appurtenances, or thrust restraints.
2. Maintain the test pressure, +/- 5 psi, for a minimum of four hours.
3. No piping will be accepted if the leakage is greater than that determined by the following formula:

$$L = (N \times D \times P1/2)/7{,}400$$

L = Allowable leakage, gallons per hour.
N = Number of joints in the length of the pipeline tested.
D = Nominal diameter of pipe, inches.
P = Average test pressure during the leakage test, pounds per square inch (gauge).

F. Cement Mortar Lined and Coated Steel Pipe Leakage Test: Perform in accordance with AWWA M11. Selected requirements of AWWA M11 are repeated as follows:

1. All pipelines shall be tested by subjecting each section to a pressure, measured at the lowest end of the section, of at least 150 percent of the class rating or design pressure of the pipe under test. In no case shall the pipe be tested at less than 150 psi, nor shall the pressure be allowed to exceed the design pressure for pipe, appurtenances, or thrust restraints.
2. Maintain the test pressure, +/- 5 psi, for a minimum of four hours.
3. There shall be no significant leakage for pipe with welded joints or mechanical couplings.
4. For pipe joined with O-ring rubber gaskets, a leakage of 25 gallons per inch of diameter per mile per 24 hours is allowed.

## 3.12 CLEANING

A. At the conclusion of the work, thoroughly clean all pipelines by flushing with water or other means to remove all dirt, stones, pieces of wood, or other material which may have entered the pipes during the construction period. Debris cleaned from the lines shall be removed from the low end of the pipeline. If after this cleaning, obstructions remain, they shall be removed. After the pipelines are cleaned and if the groundwater level is above the pipe or following a heavy rain, the Owner will examine the pipes for leaks. If any further defective pipes or joints are discovered, the Contractor shall repair them. Finished paving shall not be installed prior to completion of all cleaning and testing.

## 3.13 DISINFECTION OF PIPELINES

A. After completion of the hydrostatic test, the mains shall be thoroughly flushed with a minimum pipe velocity of 2.5 fps and chlorinated in accordance with the latest revision of AWWA 651, Standards of Disinfecting Water Mains. Any one of the methods therein described may be used, with the additional requirement of 50 ppm chlorination minimum initial application. At the end of the contact period, the mains shall again be flushed, and bacteriological samples taken.

B. If necessary, the Contractor shall provide, at his expense, outlets from which to take the samples. The location of the chlorination and sampling points will be determined by the Owner in the field. Taps for chlorination and sampling shall be installed. The Contractor shall uncover and backfill the taps as required.

C. Disinfection of tie-ins shall be performed by the Contractor by swabbing with chlorine or by other approved methods. Following a tie-in, the area affected by the tie-in shall be thoroughly flushed and bacteriological samples will be taken as deemed necessary.

D. All treated water flushed from the lines shall be dechlorinated and disposed of by discharging to the locations identified in the Plans, or by other approved means. No discharge of chlorinated water to any storm sewer or natural water course will be allowed, unless properly dechlorinated.

E. The Contractor shall rechlorinate and retest any lines that do not meet the requirements of the above testing. The line shall not be placed in service until the requirements of the State Public Health Department are met.

## 3.14 BACTERIOLOGICAL TESTING

A. Samples shall be gathered and tests conducted at the expense of the Contractor by a laboratory approved by the Owner.

B. Water samples are to be taken at representative points no less than one test per 500 feet of pipe, plus one test at each end of the pipe; or as required by the Owner.

C. After the samples have passed the bacteriological testing, the Contractor will be notified and arrangements can be made to make tie-ins and connections to house services.

D. Each water sample will have passed the bacteria tests if they show zero total coliform per 100 ml and not more than 50 non-sheen bacteria per 100 ml, and when the turbidity is no greater than the source water.

E. Samples shall be taken no sooner than 24 hours after final flushing.

F. Jumpers and/or plates shall be pulled within 14 days of the notification of a successful test, or new bacteria samples will have to be taken.

G. Follow-up bacteriological testing shall take place after tie-ins have been made, and shall meet the same passing requirements as the initial tests.

END OF SECTION 331900

## 1.6 DELIVERY, STORAGE AND HANDLING

A. Delivery and Storage
   1. Piping: Inspect materials delivered to site for damage; store with minimum of handling. Store materials on site in enclosures or under protective coverings. Store plastic piping and jointing materials and rubber gaskets under cover out of direct sunlight. Do not store materials directly on the ground. Keep inside of pipes and fittings free of dirt and debris.
   2. Metal Items: Check upon arrival; identify and segregate as to types, functions, and sizes. Store off the ground in a manner affording easy accessibility and not causing excessive rusting or coating with grease or other objectionable materials.

B. Handling
   1. Handle pipe, fittings, and other accessories in such manner as to ensure delivery to the trench in sound undamaged condition. When handling lined pipe, take special care not to damage linings of pipe and fittings; if lining is damaged, make satisfactory repairs. Carry, do not drag, pipe to trench.
   2. Handle precast concrete pipe, manholes and other precast structures according to manufacturer's written instructions.
   3. Protect imported bedding and backfill material from contamination by other materials.

# PART 2 - PRODUCTS

## 2.1 PVC PIPE

A. Pipe:
   1. **4 inch through 8 inch private on site: ASTM D3034, SDR 35**
   2. **8 inch connection to West Bay: AWWA C900, SDR 18**

B. Bell and spigot joints

C. Fittings:
   1. 4 inch through 27 inch: ASTM F1336
   2. 30 inch through 36 inch: ASTM D3034, SDR 35

D. Joint Gasket: Elastomeric seal, ASTM F477

E. Special Pipe Coupling: ASTM C1173. Rubber or elastomeric sleeve and band assembly fabricated to match outside diameters of pipes to be joined.

## 2.2 GRAVITY PIPE CLEANOUTS

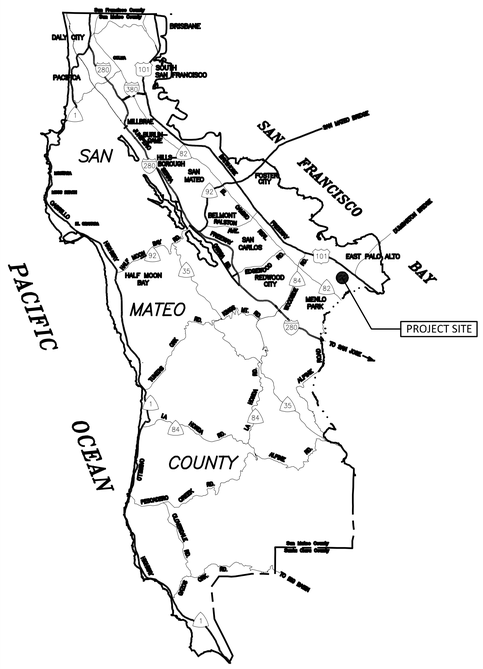
A. Piping: Same as sanitary sewer line if possible

B. Top Cap: Threaded and of same material as piping if possible

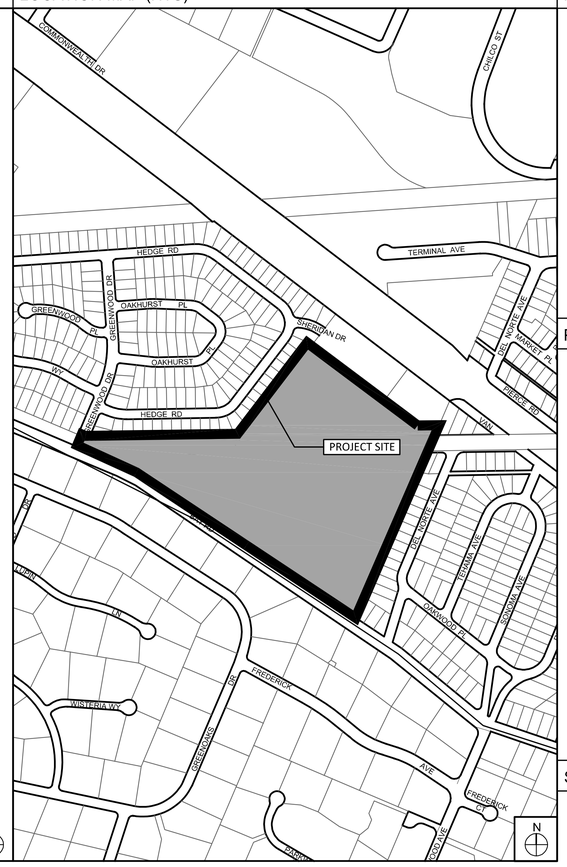
C. Box Size: As required to provide access and allow easy removal and reinstallation of cap

D. Box Types:
   1. Non-Traffic Areas: Portland cement concrete box and box cover, light duty

VICINITY MAP (NTS)




LOCATION MAP (NTS)




ILLUSTRATIVE PLAN (NTS, FOR REFERENCE ONLY)




PROJECT

# COUNTY OF SAN MATEO

CALIFORNIA

## REALIZE FLOOD PARK PROJECT – PHASE 1

215 BAY ROAD

MENLO PARK, CA 94025

PROJECT TEAM

**LANDSCAPE ARCHITECTURE**
CMG Landscape Architecture
444 Bryant Street
San Francisco, CA 94107
415-495-3070
cmgsite.com

**ARCHITECTURE**
Page + Turnbull
170 Maiden Lane, 5th Floor
San Francisco, CA 94108
415-362-5154
page-turnbull.com

**MEP**
ESD Global
90 New Montgomery St., Ste 1420
San Francisco, CA 94105
415-486-3100
esdglobal.com

**OPERATIONS AND MAINTENANCE**
Pros Consulting
35 Whittington Drive, Suite 300
Brownsburg, IN 46112
877-242-7760
prosconsulting.com

**CIVIL ENGINEERING**
BKF
255 Shoreline Drive, Suite 200
Redwood City, CA 94065
650-482-6300
bkf.com

**STRUCTURAL ENGINEERING**
Krakower & Associates
160 White Oak Drive
Arcadia, CA 91006
626-355-6088

**IRRIGATION**
Russell D. Mitchell Associates, Inc.
2760 Camino Diablo
Walnut Creek, CA 94597
925-939-3985
rmairrigation.com

**COST ESTIMATING**
M Lee Corporation
601 Montgomery Street, Suite 2040
San Francisco, CA 94111
415-693-0236
mleecorp.com

**GEOTECHNICAL AND SOILS ASSESSMENT**
Cornerstone
1259 Oakmead Parkway
Sunnyvale, CA 94085
408-245-4600
cornerstoneearth.com

**ECOLOGICAL CONSULTANTS**
H.T. Harvey & Associates
983 University Ave, Building D
Los Gatos, CA 95032
408.458.3200
harveyecology.com

**SOILS AND WATER TESTING**
Wallace Labratories
365 Coral Circle
El Suguno, CA 90245
310-615-0116
wlabs.com

**CATHODIC PROTECTION**
JDH CORROSION CONSULTANTS, INC.
1100 WILLOW PASS COURT
CONCORD, CA 94520
925-927-6630
jdhcorrosion.com

SHEET INDEX


**GENERAL**
G0-100 COVER SHEET
G0-101 LANDSCAPE NOTES AND ABBREVIATIONS
G0-200 TREE REMOVAL & PROTECTION NOTES & LEGEND
G0-210 TREE REMOVAL, PROTECTION & TRANSPLANT PLAN
G0-211 UTILITY COORDINATION PLAN
G0-220 TREE REMOVAL, PROTECTION & TRANSPLANT ENLG. PLAN
G0-221 TREE REMOVAL, PROTECTION & TRANSPLANT ENLG. PLAN
G0-222 TREE REMOVAL, PROTECTION & TRANSPLANT ENLG. PLAN
G0-223 TREE REMOVAL, PROTECTION & TRANSPLANT ENLG. PLAN
G0-224 TREE REMOVAL, PROTECTION & TRANSPLANT ENLG. PLAN
G0-310 ACCESSIBILITY PLAN
G0-410 EXCESS SOILS GRADING PLAN R2

**CIVIL ENGINEERING**
C1.0 GENERAL NOTES, LEGEND, & ABBREVIATIONS
C1.1 CITY STANDARD GENERAL NOTES
C2.0 EXISTING CONDITIONS PLAN
C2.1 EXISTING CONDITIONS PLAN
C2.2 EXISTING CONDITIONS PLAN
C2.3 EXISTING CONDITIONS PLAN
C2.4 EXISTING CONDITIONS PLAN
C2.5 EXISTING CONDITIONS PLAN
C3.0 DEMOLITION PLAN
C3.1 DEMOLITION PLAN
C3.2 DEMOLITION PLAN
C3.3 DEMOLITION PLAN
C3.4 DEMOLITION PLAN
C3.5 DEMOLITION PLAN
C4.0 PARKING LOT IMPROVEMENTS
C4.1 PARKING LOT IMPROVEMENTS
C4.2 PARKING LOT IMPROVEMENTS
C4.3 PARKING LOT IMPROVEMENTS
C4.4 CROSS SECTIONS
C4.5 BAY ROAD IMPROVEMENTS
C5.0 GRADING AND DRAINAGE PLAN
C5.1 GRADING AND DRAINAGE PLAN
C5.2 GRADING AND DRAINAGE PLAN
C5.3 GRADING AND DRAINAGE PLAN
C6.0 UTILITY PLAN
C6.1 UTILITY PLAN
C6.2 UTILITY PLAN
C6.3 UTILITY PLAN
C6.4 UTILITY PLAN
C6.5 UTILITY PLAN
C7.0 UTILITY PROFILES
C7.1 UTILITY PROFILES
C7.2 UTILITY PROFILES
C8.0 STORMWATER MANAGEMENT PLAN
C8.1 STORMWATER PRELIMINARY CALCULATIONS
C9.0 EROSION CONTROL PLAN
C9.1 EROSION CONTROL DETAILS
C9.2 EROSION CONTROL DETAILS
C9.3 BEST MANAGEMENT PRACTICES
C10.0 DETAILS
C10.1 DETAILS
C10.2 DETAILS
C10.3 DETAILS
C10.4 DETAILS
C10.5 DETAILS
C.10.6 DETAILS

**ELECTRICAL ENGINEERING & TECHNOLOGY DESIGN**
E0.01 ELECTRICAL RISER DIAGRAMS & SYMBOLS LIST - PHASE 1
E0.02 ELECTRICAL SCHEDULES - PHASE 1
E0.03 ELECTRICAL DETAILS - PHASE 1
E0.04 ELECTRICAL TITLE 24 - PHASE 1
E1.00 ELECTRICAL DEMO SITE PLAN - PHASE 1
E3.00 ELECTRICAL SITE PLAN - PHASE 1
T0.01 TECHNOLOGY DETAILS - PHASE 1
T3.00 TECHNOLOGY SITE PLAN - PHASE 1

**PLUMBING ENGINEERING**
P0.01 PLUMBING GENERAL NOTES AND SYMBOLS
P0.02 PLUMBING SCHEDULES AND DETAILS
P0.03 PLUMBING RISER DIAGRAMS
P1.00 PLUMBING SITE PLAN
P4.01 PLUMBING ENLARGED PLANS
P4.02 PLUMBING ENLARGED PLANS

**CATHODIC PROTECTION**
CP1.0 SYSTEM OVERALL SITE PLAN
CP1.1 SYSTEM SITE PLAN
CP1.2 SYSTEM SITE PLAN
CP1.3 SYSTEM SITE PLAN
CP2.0 DETAILS
CP2.1 DETAILS
CP2.2 DETAILS

**LANDSCAPE ARCHITECTURE**
L1-100 LANDSCAPE MATERIALS SCHEDULE
L1-110 OVERALL MATERIALS PLAN
L1-121 MATERIALS ENLARGEMENT PLAN
L1-122 MATERIALS ENLARGEMENT PLAN
L1-123 MATERIALS ENLARGEMENT PLAN
L1-124 MATERIALS ENLARGEMENT PLAN
L1-200 LAYOUT PLAN SCHEDULE
L1-210 HORIZONTAL CONTROL AND LAYOUT PLAN
L1-221 HORIZONTAL CONTROL AND LAYOUT ENLARGEMENT PLAN
L1-222 HORIZONTAL CONTROL AND LAYOUT ENLARGEMENT PLAN
L1-223 HORIZONTAL CONTROL AND LAYOUT ENLARGEMENT PLAN
L1-224 HORIZONTAL CONTROL AND LAYOUT ENLARGEMENT PLAN
L1-300 GRADING & DRAINAGE SCHEDULE
L1-310 GRADING & DRAINAGE PLAN
L1-321 GRADING & DRAINAGE ENLARGEMENT PLAN
L1-322 GRADING & DRAINAGE ENLARGEMENT PLAN
L1-323 GRADING & DRAINAGE ENLARGEMENT PLAN
L1-324 GRADING & DRAINAGE ENLARGEMENT PLAN
L1-E31 SMALL MULTI-USE FIELD GRADING & DRAINAGE
L1-E32 SPORTS COURT ENLARGEMENTS
L1-E41 RESERVABLE PICNIC AREA PLAN - FIR
L1-E42 RESERVABLE PICNIC AREA PLAN - MADRONE
L1-E43 RESERVABLE PICNIC AREA PLAN - REDWOOD
L1-E44 RESERVABLE PICNIC AREA PLAN - MAPLE
L1-E45 RESERVABLE PICNIC AREA PLAN - PINE
L1-E46 RESERVABLE PICNIC AREA PLAN - BAY
L1-E47 RESERVABLE PICNIC AREA PLAN - OAK
L1-600 UNDERSTORY PLANTING SCHEDULE
L1-610 UNDERSTORY PLANTING OVERALL PLAN
L1-620 UNDERSTORY ENLARGEMENT PLAN R2
L1-621 UNDERSTORY ENLARGEMENT PLAN
L1-622 UNDERSTORY ENLARGEMENT PLAN
L1-623 UNDERSTORY ENLARGEMENT PLAN
L1-624 UNDERSTORY ENLARGEMENT PLAN
L1-700 IRRIGATION LEGEND & NOTES
L1-710 OVERALL IRRIGATION PLAN
L1-720 IRRIGATION ENLARGEMENT PLAN
L1-721 IRRIGATION ENLARGEMENT PLAN
L1-722 IRRIGATION ENLARGEMENT PLAN
L1-723 IRRIGATION ENLARGEMENT PLAN
L1-724 IRRIGATION ENLARGEMENT PLAN
L1-725 IRRIGATION EQUIPMENT ENLARGEMENT
L1-726 IRRIGATION DETAILS
L1-727 IRRIGATION DETAILS
L1-728 IRRIGATION DETAILS
L1-729 IRRIGATION DETAILS
L1-730 IRRIGATION DETAILS & CALCS
L2-100 SITE SECTIONS
L6-100 PAVING DETAILS
L6-101 PAVING DETAILS
L6-102 PAVING DETAILS
L6-103 PAVING DETAILS
L6-200 SITE ELEMENTS DETAILS
L6-201 SITE ELEMENTS DETAILS
L6-202 SITE ELEMENTS DETAILS
L6-203 SITE ELEMENTS DETAILS
L6-204 SITE ELEMENTS DETAILS
L6-205 SITE ELEMENTS DETAILS
L6-206 SITE ELEMENTS DETAILS
L6-211 SPORT COURT DETAILS
L6-212 SPORT COURT DETAILS
L6-221 PICNIC AREA DETAILS
L6-222 PICNIC AREA DETAILS
L6-223 PICNIC AREA DETAILS
L6-224 PICNIC AREA DETAILS
L6-225 PICNIC AREA DETAILS
L6-226 PICNIC AREA DETAILS
L6-227 PICNIC AREA DETAILS
L6-228 PICNIC AREA DETAILS
L6-400 DRAINAGE DETAILS
L6-500 TREE PLANTING DETAILS
L6-501 TREE PLANTING DETAILS
L6-600 UNDERSTORY PLANTING DETAILS



cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
CHRISTOPHER M. GUILLARD
No. 6065
Signature
Renewal Date
Date
STATE OF CALIFORNIA

PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

COVER SHEET

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| | CG, AMP |

SHEET NUMBER

G0-100
(REV.)

## TREE REMOVAL AND PROTECTION LEGEND

| SYMBOL | TYPE |
|---|---|
| | Existing Trees to be Removed |
| TREE TO BE TRANSPLANTED | Existing Trees to be Transplanted<br>-See L1-610 for Transplant Locations |
| TRUNK CANOPY | Existing Trees to Remain and be Protected |
| | Heritage Tree to Remain<br>- NOTE: Protection requirements' extents are equal to 1" DBH = 1'-6" diameter of protection |
| | Significant Tree To Remain |
| | Other Tree To Remain |
| | Tree Protection Zone |
| | Heritage Tree Protection Zone + Fence |
| | Tree Protection Fencing |
| | Tree Protection Fencing<br>Access Point |

## UTILITY COLOR CHART

| SERVICE | COLOR |
|---|---|
| Irrigation | Blue |
| Water | Pink |
| Sewer | Green |
| Electrical | Orange |
| Telecom | Red |

## TREE PROTECTION NOTES

General

1. All existing trees are identified with numbers that correspond to the Arborist's Report included as part of the contract documents. Contractor shall notify Owner's appointed Construction Manager of any discrepancies between tree tag numbers in the field and those designated on plans.
2. Complete a pre-construction tree protection site walk with the Parks Department Arborist, Resident Engineer, and Landscape Architect in advance of preparing the construction sequencing and tree protection plans as defined in the Specifications.
3. Provide Tree Protection Plan indicating fencing locations based on construction sequencing plan for review and approval.
   a. Provide updates to the plan as needed for construction sequencing and operations.
   b. Updates to the protection plan and measures shall be approved by the Supervising Arborist and reviewed by the Resident Engineer to confirm compliance.
4. Key tree protection definitions and requirements are outlined below. Refer to the "Tree Removal and Protection" Specifications for all requirements.

Tree Protection Zone (TPZ)

1. Tree Protection Zones (TPZ designates an area surrounding a tree or grouping of trees that is to be fenced for protection. All construction activity (grading, filling, excavation, trenching, paving, landscaping) within the (TPZ) shall be completed according to the specifications. The TPZ for each tree is identified in the drawings as follows:
   a. Heritage Trees: 1'-6" protection for every 1-inch of diameter at breast height, i.e. 48 inch DBH = 72 foot diameter around tree.
   b. Significant Trees: TPZ = 1-foot protection for every 1 inch DBH, i.e. 24 inch DBH = 24 foot diameter around tree, or the tree dripline, whichever is greater.
   c. All Other Trees: 1-foot protection for every 1-inch DBH, i.e. 24 inch DBH = 24 foot diameter around tree, or the tree dripline, whichever is greater.
   d. Exceptions to this standard may occur depending upon the age, condition, and species tolerance of individual trees as determined by the Supervising Arborist.
2. Critical Root Zone: The critical root zone is the radial area around the trunk where all root impacts shall be avoided or mitigated with specialized procedures. The critical root zone will be a radial distance equal to three times the trunk diameter, or 8 feet minimum.
3. Protection: Provide all barricades including tree protection fencing as required to prevent all damage to existing trees and landscape areas to remain, including but not limited to protection from mechanical damage, soil compaction, pollution from all sources, and disruption of environmental support which would result in damage of said trees and plants.
   a. Primary Protection: 6' tall temporary chain link fencing defining the perimeter of the Tree Protection Zones as directed and approved by Supervising Arborist.
   b. Secondary Protection: 4' tall bright orange safety fencing, with metal channel posts installed at the Drip line of all trees within the designated TPZ where work is to be completed. The secondary protection will define the maximum extent of work within the TPZ.
   c. Trunk Protection: Protection of trunks as required by the specifications.
   d. Root Zone Protection: Protection of root zone soil from compaction as required by the specifications.

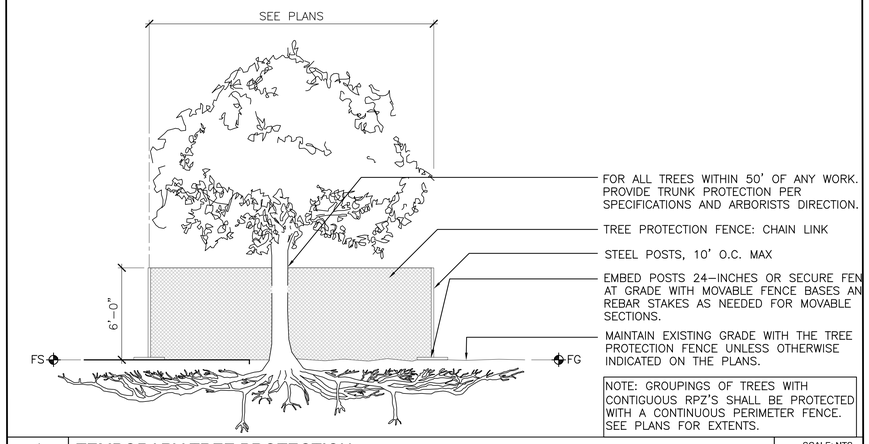
## TREE TRANSPLANT NOTES

1. Refer to tree removal plans for existing trees that are designated for removal and transplant on-site
2. Expectation is that trees being transplanted are to be planted permanently in their permanent spot immediately after excavation and are not to be stored in boxes or a secondary location for any amount of time.

## TREE REMOVAL AND PROTECTION SUMMARY - PHASE 1

| TYPE | QUANTITY |
|---|---|
| **TOTAL EXISTING TREES** | |
| Total (E) Trees | 739 |
| Total (E) Trees to Remain | 685 R2 |
| Total (E) Trees to be Removed | 54 |
| Total (E) Trees to be Transplanted | 17 |
| **TOTAL TREES REMOVED FOR SITE IMPROVEMENTS** | |
| Total (E) Heritage Trees | 0 R2 |
| Total (E) Significant Oak Trees | 6 |
| Total (E) Significant Native Trees (Non-Oak) | 3 |
| Total (E) Significant Non-Native Trees | 12 |
| Total (E) Oak Trees (less than 12") | 7 |
| Total (E) Native Trees (Non-Oak, less than 12") | 5 |
| Total (E) Non-Native Trees (less than 12") | 9 R2 |
| **TOTAL** | 42 |
| **TOTAL TREES REMOVED DUE TO HEALTH** | |
| Total (E) Heritage Trees | 0 |
| Total (E) Significant Trees | 7 |
| Total (E) Non-Significant Trees | 5 |
| **TOTAL** | 12 |

NOTE: TREE TOTALS REFLECT COORDINATION TO DATE AND ARE SUBJECT TO CHANGE BASED ON ONGOING PARK MAINTENANCE AND ASSESSMENT BY QUALIFIED ARBORISTS.




1 TEMPORARY TREE PROTECTION — SCALE: NTS

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP




PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP




SHEET TITLE

TREE REMOVAL & PROTECTION NOTES & LEGEND

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| | CG, AMP |

SHEET NUMBER

# G0-200
(REV.)




## TREE REMOVAL AND PROTECTION LEGEND

| SYMBOL | TYPE |
|---|---|
| | Existing Trees to be Removed |
| TRUNK CANOPY | Existing Trees to be Transplanted -See L1-610 for Transplant Locations |
| TRUNK CANOPY | Existing Trees to Remain and be Protected |
| | Heritage Tree to Remain<br>- NOTE: Protection requirements' extents are equal to 1" DBH = 1'-6" diameter of protection |
| | Significant Tree To Remain |
| | Other Tree To Remain |
| | Tree Protection Zone |
| | Heritage Tree Protection Zone |
| | Tree Protection Fencing |
| | Tree Protection Fencing Access Point |

1"=50' 0 12.5 25 50 100

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
STEPHEN M. GUILLARD No. 2555
Signature
Renewal Date
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER ST.LAMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

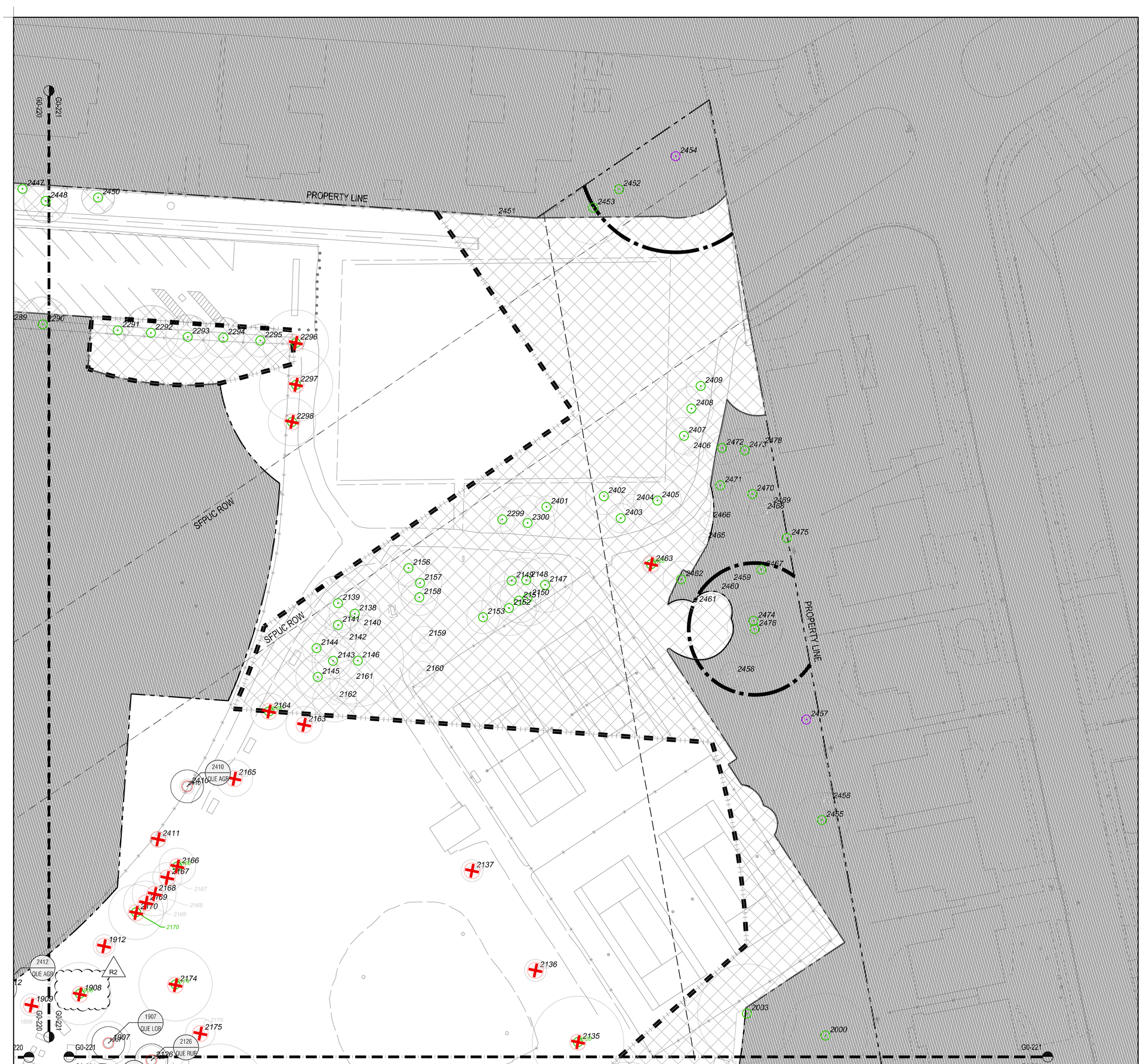
SHEET TITLE

## TREE REMOVAL & TRANSPLANT PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 50'-0" | CG, AMP |

SHEET NUMBER

# G0-210
(REV.)




## TREE REMOVAL AND PROTECTION LEGEND

| SYMBOL | TYPE |
|---|---|
| | Existing Trees to be Removed |
| TREE NUMBER | Existing Trees to be Transplanted -See L1-610 for Transplant Locations |
| TRUNK CANOPY | Existing Trees to Remain and be Protected |
| | Heritage Tree to Remain - NOTE: Protection requirements' extents are equal to 1" DBH = 1'-6" diameter of protection |
| | Significant Tree To Remain |
| | Other Tree To Remain |
| | Tree Protection Zone |
| | Heritage Tree Protection Zone |
| | Tree Protection Fencing |
| | Tree Protection Fencing Access Point |

1"=20'
0 10 20 40
N


cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

REGISTERED LANDSCAPE ARCHITECT
LICENSED BY THE STATE OF CALIFORNIA
JOHN W. GULLAND
No. 2549
Renewal 08/31/2024
STATE OF CALIFORNIA

PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
JOHN IMMER STILLMAN
C 47882
12/31/25
CIVIL
STATE OF CALIFORNIA

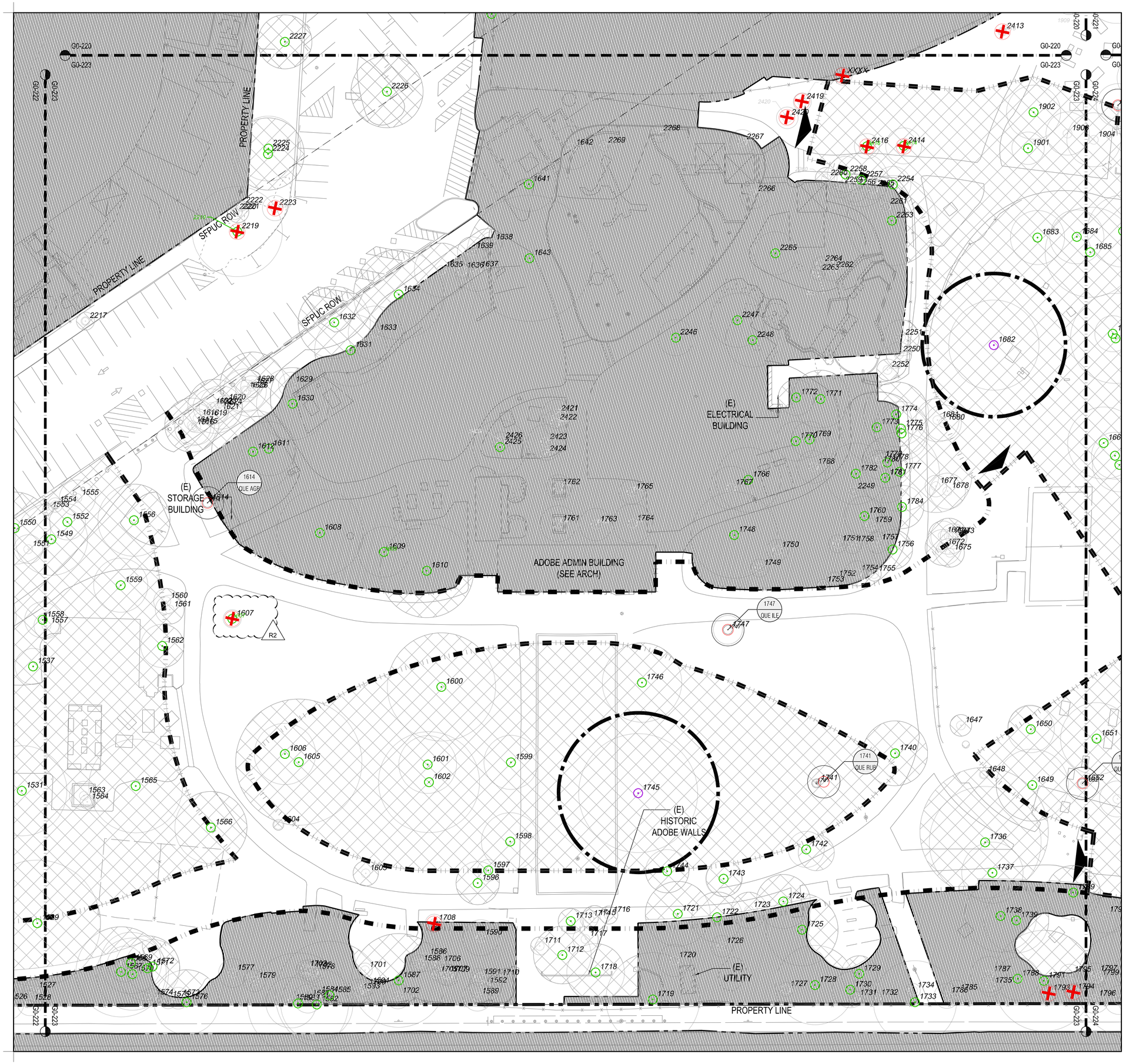
SHEET TITLE

TREE REMOVAL & TRANSPLANT ENLARGEMENT PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 20'-0" | CG, AMP |

SHEET NUMBER

# G0-221
(REV.)




## TREE REMOVAL AND PROTECTION LEGEND

| SYMBOL | TYPE |
|---|---|
| | Existing Trees to be Removed |
| TRUNK CANOPY | Existing Trees to be Transplanted -See L1-610 for Transplant Locations |
| TRUNK CANOPY | Existing Trees to Remain and be Protected |
| | Heritage Tree to Remain<br>- NOTE: Protection requirements' extents are equal to 1" DBH = 1'-6" diameter of protection |
| | Significant Tree To Remain |
| | Other Tree To Remain |
| | Tree Protection Zone |
| | Heritage Tree Protection Zone |
| | Tree Protection Fencing |
| | Tree Protection Fencing Access Point |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
RICHARD M. GUILLARD
No. 5005
Signature
Renewal Date
10/31/2024
STATE OF CALIFORNIA

PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

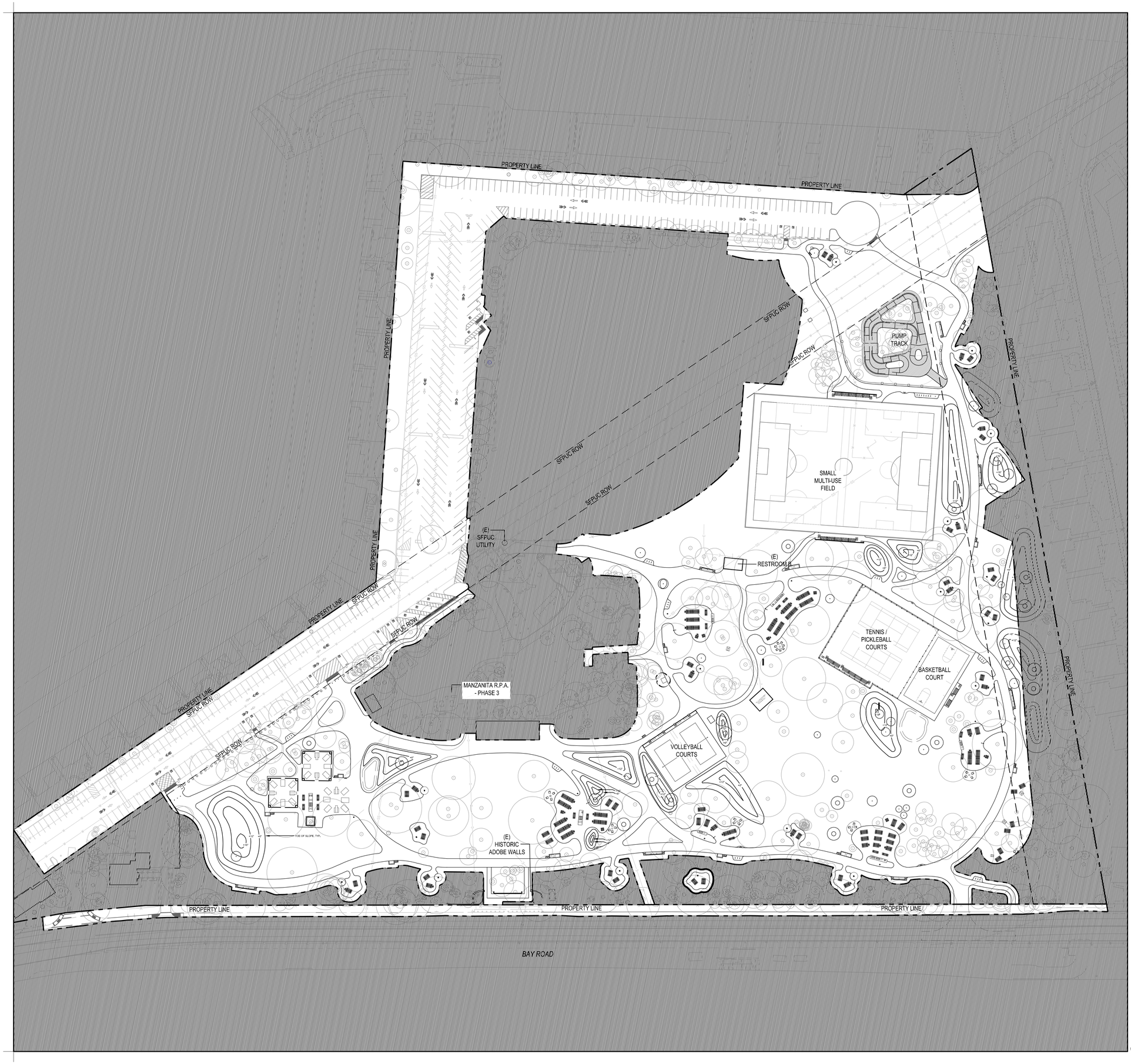
SHEET TITLE

# TREE REMOVAL & TRANSPLANT ENLARGEMENT PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 20'-0" | CG, AMP |

SHEET NUMBER

# G0-223
(REV.)




**NOTES:**

1. THE SITE IS EXPECTED TO HAVE A BALANCED CUT/FILL.
2. G0-410 OUTLINES ACCEPTABLE AREAS FOR THE DEPOSITION OF EXCESS SITE SOILS IF SITEWORK REALIZES AN UNBALANCED CUT/FILL CONDITION.
3. THE VOLUME OF DEPOSITION AND PROPOSED LOCATIONS & ELEVATIONS MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO THE BEGINNING OF EXCESS SOILS GRADING.
4. THE FINAL LAYOUT AND GRADING OF ALL EXCESS SOIL BERMS ARE TO BE FIELD COORDINATED WITH LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. A MINIMUM NOTICE OF 2-WEEKS IS REQUIRED PRIOR TO THE COMMENCEMENT OF WORK.
5. SOILS USED IN EXCESS SOIL BERMS MUST BE CLEAN AND BE FREE OF DELETERIOUS MATERIALS. SEE SPECIFICATION 32 91 13, 32 91 19 & 31 20 00 FOR ATTENDING REQUIREMENTS.
6. EXCESS SOILS GRADING MUST BE COMPLETED BEFORE ALL PLANTING AND IRRIGATION WORK IS COMPLETED.
7. THE GRADING OF EXCESS SOIL BERMS MUST COMPLY WITH ALL TREE PROTECTION MEASURES, SEE SPECIFICATION 01 56 93.
8. THE GRADING OF EXCESS SOIL BERMS MUST COMPLY WITH EROSION CONTROL REQUIREMENTS, SEE SPECIFICATION 01 50 50.
9. WHERE EXCESS SOIL LOCATIONS ARE ACCEPTED FOR DEPOSITION, SCARIFY THE EXISTING SUBGRADE AND CROSS RIP THE FIRST LIFT TO INTEGRATE EXCESS SOILS WITH EXISTING SITE SOILS TO A MINIMUM DEPTH OF 6".
10. GRADE ALL EXCESS SOIL BERMS TO EXISTING AND PROPOSED GRADES FOR SMOOTH AND UNIFORM TRANSITIONS.


cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
JASPER M. GUILLARD
No. 6454
Renewal Date
4-30-2025
Date
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R1 | BID ADDENDUM R1 | 12.22.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

## EXCESS SOILS GRADING PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| | CG, AMP |

SHEET NUMBER

R2

# G0-410
(REV.)

# GENERAL NOTES

## I. GENERAL NOTES:

1. THE FOLLOWING NOTES ARE NOT PART OF THE COUNTY OF SAN MATEO NOR CITY OF MENLO PARK'S ENCROACHMENT PERMIT APPROVAL CONDITIONS BUT ARE PROVIDED AS SUPPLEMENTAL NOTES BY BKF ENGINEERS AND ARE TO BE ADHERED TO BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH CITY OF MENLO PARK'S SPECIFICATIONS, COUNTY OF SAN MATEO AND DETAILS DURING PERFORMANCE OF WORK, UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING REQUIRED INSPECTIONS BY THE COUNTY, CITY INSPECTOR, OR HIS AUTHORIZED REPRESENTATIVES. BKF ENGINEERS IS NOT RESPONSIBLE FOR DELAY OF WORK CLAIM DUE TO THE CONTRACTOR'S FAILURE TO ARRANGE FOR COUNTY OR CITY INSPECTION IN ADVANCE.
3. WORK SHALL NOT BE PERFORMED DURING HOURS OTHER THAN THE NORMAL WORKING HOURS OF THE COUNTY OR CITY INSPECTION AND MAINTENANCE PERSONNEL WITHOUT THE APPROVAL OF THE COUNTY OR CITY ENGINEER AND WITHOUT FIRST OBTAINING A SPECIAL PERMIT FOR AFTER HOURS WORK FROM THE COUNTY OR CITY ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ANY ADDITIONAL FEES REQUIRED BY THE COUNTY AND CITY FOR PERFORMING WORK BEYOND THE NORMAL WORKING HOURS. CONTRACTOR SHALL CONFORM TO THE REQUIREMENT OF THE COUNTY OR CITY NOISE ORDINANCE.
4. REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE ENGINEER, WHO WILL OBTAIN APPROVAL FROM THE COUNTY OR CITY ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS. REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS, WHICH SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND CITY ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.
5. CONTRACTOR SHALL REPLACE OR REPAIR, AT HIS OWN EXPENSE, DAMAGED, REMOVED OR OTHERWISE DISTURBED EXISTING UTILITIES, IMPROVEMENTS OR FEATURES OF WHATEVER NATURE, TO ITS ORIGINAL CONDITION.
6. REPLACE STREET MONUMENTS AND OTHER PERMANENT MONUMENTS DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION BEFORE ACCEPTANCE OF THE IMPROVEMENTS BY THE CITY ENGINEER.
7. CONTRACTOR SHALL COORDINATE HIS WORK, AND THAT OF HIS SUBCONTRACTORS, WITH ANY ONGOING GRADING OR SITE WORK OF OTHER CONTRACTORS AND WITH THE INSTALLATION OF FACILITIES BY PG&E, AT&T, CABLE TV AND T–MOBILE.
8. IF TEMPORARY LANE CLOSURES ARE REQUIRED FOR CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ALSO PROVIDE FLAG MEN, CONES OR BARRICADES, AS NECESSARY TO CONTROL TRAFFIC AND PREVENT HAZARDOUS CONDITIONS, PER CALTRANS STANDARDS AND THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
9. EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS AND ADA ACCESS PATHWAYS WITHIN CITY RIGHT–OF–WAY SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER AND INSPECTOR.
10. TRENCHES SHALL NOT BE LEFT OPEN OVERNIGHT IN EXISTING STREET AREAS. CONTRACTOR SHALL BACKFILL TRENCHES, OR PLACE STEEL PLATING AND/OR HOT–MIX ASPHALT, AS REQUIRED BY THE CITY, TO PROTECT OPEN TRENCHES AT THE END OF EVERY WORK DAY.
11. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED AND SHEATHED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEATHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND HE SHALL COMPLETE NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A CONDUIT TRENCH AND/OR STRUCTURE IS FIVE FEET (5') OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE SHEATHING, SHORING AND BRACING IN CONFORMANCE WITH THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS.
12. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, BKF ENGINEERS, AT (650) 482–6300 BEFORE PROCEEDING WITH THE WORK IN QUESTION.
13. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING PAVEMENT, ADJACENT LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALK, ETC. TO AVOID ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
14. CONTRACTOR SHALL POST 24–HOUR EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, POLICE DEPARTMENT AND FIRE DEPARTMENT ON SITE PRIOR TO START OF CONSTRUCTION.
15. THE CONTRACTOR IS RESPONSIBLE FOR THE CARE AND PROTECTION OF ADJOINING PREMISES, TREES, LANDSCAPING, UTILITIES, SIDEWALKS AND STREETS FROM DAMAGE BY HIS OPERATIONS. CONTRACTOR SHALL REPAIR, REPLACE OR CLEAN ANY PART OF THE ABOVE MENTIONED TO THE SATISFACTION OF THE OWNER, AT NO ADDITIONAL COST TO THE OWNER, AT HIS OR HER EXPENSE.
16. CONSTRUCTION MATERIALS, EQUIPMENT AND VEHICLES SHALL BE PROPERLY MAINTAINED AND MANAGED AT THE CONSTRUCTION SITE THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT.
17. CONTRACTOR TO OBTAIN REQUIRED PERMITS FOR HAUL ROUTES PRIOR TO DEMOLITION AND CONSTRUCTION.
18. CONSTRUCTION STAKING FOR CURB, GUTTER, SIDEWALK, UTILITIES, AND GRADING, ETC. SHALL BE DONE BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
19. THIS PROJECT MUST COMPLY WITH THE CITY'S CONSTRUCTION AND DEMOLITION ORDINANCE WITHIN CITY ROW.
20. IMPLEMENT CONSTRUCTION DUST CONTROL MEASURES TO REDUCE PARTICULATE GENERATION TO A LESS THAN SIGNIFICANT LEVEL. PROVIDE DUST CONTROL IN CONFORMANCE WITH BAY AREA AIR QUALITY MANAGEMENT DISTRICT MINIMUM REQUIREMENTS. IMPLEMENT THE FOLLOWING CONSTRUCTION PRACTICES EXCEPT WHEN IT IS RAINING:

    A. WATER ACTIVE EXTERIOR SOIL AREAS AT LEAST TWICE A DAY.

    B. COVER TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIAL OR PROVIDE 2 FEET OF FREEBOARD.

    C. PAVE, APPLY WATER THREE TIMES DAILY OR APPLY NON–TOXIC SOIL STABILIZER ON UNPAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS.

    D. SWEEP PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS DAILY.

    E. APPLY HYDROSEED OR NON–TOXIC SOIL STABILIZER TO INACTIVE CONSTRUCTION AREAS. CONTRACTOR TO SUBMIT PRODUCT INFORMATION TO CIVIL ENGINEER AND LANDSCAPE ARCHITECT FOR APPROVAL. IN SUBMITTAL, CONTRACTOR TO PROVIDE VERIFICATION THAT PROPOSED PRODUCTS AND SYSTEM CONFORM TO BAY AREA AIR QUALITY STANDARDS.

    F. ENCLOSE, COVER, WATER TWICE DAILY OR APPLY NON–TOXIC SOIL STABILIZER TO EXPOSED SOIL STOCKPILES.

    G. INSTALL SANDBAGS AND OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.

    H. REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.

21. GEOTECHNICAL ENGINEER SHALL BE PRESENT AND PROVIDE RECOMMENDATIONS DURING CONSTRUCTION ACTIVITIES AND PRIOR TO PERMEABLE ASPHALT CONCRETE SECTION INSTALLATION.

## II. EXISTING CONDITIONS

20. BASED ON AN TOPOGRAPHIC SURVEY, GRADES ENCOUNTERED ON–SITE MAY VARY FROM THOSE SHOWN. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
21. INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM RECORD DATA KNOWN TO THE ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES, WHETHER SHOWN ON THESE PLANS OR NOT, PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
22. ELEVATIONS AND LOCATIONS OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF CONSTRUCTION AFFECTING SAID LINES.
23. ITEMS DEMOLISHED ARE TO BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF–SITE AND IN CONFORMANCE WITH THE CITY OR COUNTY CONSTRUCTION AND DEMOLITION DEBRIS REUSE AND RECYCLING PROGRAM.
24. CONTRACTOR TO COORDINATE ABANDONMENT, REMOVAL, RELOCATION, AND/OR ADJUSTMENT TO GRADE OF EXISTING DRY UTILITIES WITH UTILITY OWNER AND JOINT TRENCH DESIGNER.
25. IF UNDERGROUND UTILITY FACILITIES (W, SD, SS, IRRIG, ETC) ARE DISCOVERED BUT NOT SHOWN ON THESE PLANS, NOTIFY THE OWNER'S REPRESENTATIVE BEFORE REMOVAL OF SAID MATERIAL.
26. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON AN EXISTING CONDITIONS PLAN PROVIDED BY RMW, ALONG WITH SUPPLEMENTAL SURVEY BY BKF ENGINEERS. THE SUPPLEMENTAL SURVEY IS BASED UPON SANTA CLARA VALLEY WATER DISTRICT BENCHMARK BM–180, ELEVATION 18.73, DATUM NAVD 88. CONDITIONS ENCOUNTERED ON SITE MAY VARY FROM THOSE SHOWN. REVIEW CONSTRUCTION DOCUMENTS AND CONDUCT INVESTIGATIONS TO UNDERSTAND AND VERIFY EXISTING CONDITIONS AT THE SITE.

## III. UTILITIES

1. WATER VALVES OR OTHER FACILITIES OWNED BY THE COUNTY, CITY OF MENLO PARK OR OTHER UTILITY COMPANY SHALL NOT BE OPERATED FOR ANY PURPOSE BY THE CONTRACTOR. REQUIRED OPERATION WILL BE PERFORMED BY AUTHORIZED UTILITY OWNER PERSONNEL. THE CONTRACTOR SHALL NOTIFY THE UTILITY OWNER NOT LESS THAN FORTY–EIGHT (48) HOURS IN ADVANCE OF THE TIME THAT SUCH OPERATION IS REQUIRED.
2. PROVIDE THIRTY–SIX (36) INCHES MINIMUM COVER (MEASURED FROM ROADWAY SURFACE) OVER WATER MAINS. MAINTAIN A MINIMUM ONE FOOT VERTICAL CLEARANCE FROM UTILITIES TO WATER MAINS. MAINTAIN A MINIMUM TEN FOOT HORIZONTAL CLEARANCE FROM OUTSIDE DIAMETER OF PIPE BETWEEN WATER MAINS AND SANITARY SEWER AND A MINIMUM FOUR FOOT HORIZONTAL CLEARANCE FROM OTHER UTILITIES TO WATER MAINS.
3. ELECTRIC, GAS, TELEPHONE, CABLE, AND JOINT TRENCH WORK, SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE RESPECTIVE UTILITY PROVIDER. CONTRACTOR SHALL NOTIFY THE AFFECTED UTILITY PROVIDER AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING SUCH WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PUBLIC WORKS DEPARTMENT IF EXISTING WATER, SEWER, GAS MAINS, OR SERVICES ARE DISTURBED OR DAMAGED.
4. CONTRACTOR SHALL PROTECT UTILITIES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION.
5. UTILITY BOXES AND LIDS IN VEHICULAR TRAVEL AREAS SHALL BE DESIGNED FOR H–20 LOADING.
6. THE PIPE LENGTHS SHOWN ARE FOR PURPOSES OF ENGINEERING CALCULATIONS AND ARE NOT INTENDED FOR BID QUANTITIES OR ORDERING OF MATERIALS.
7. EXISTING PG&E, AT&T, CABLE, AND FIBER OPTIC MANHOLES/VAULTS SHALL BE ADJUSTED TO GRADE BY THE UTILITY PROVIDER. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE APPROPRIATE UTILITY PROVIDER. OTHER UTILITY BOXES SHALL BE ADJUSTED TO FINISH GRADE BY THE CONTRACTOR.
8. CONSTRUCTION OF GRAVITY FLOWING SYSTEMS SHALL PROCEED FROM THE DOWNSTREAM CONNECTION TO THE UPSTREAM TERMINUS.
9. STORM DRAIN AND SANITARY SEWER UTILITY INSTALLATION AND MATERIALS SHALL CONFORM TO CITY OF MENLO PARK AND/OR COUNTY OF SAN MATEO STANDARD DETAILS AND SPECIFICATIONS, LATEST EDITION, UNLESS NOTED OTHERWISE PER THE PLANS.
10. WATER PROOF MANHOLES WITH RAM–NEK OR APPROVED EQUAL PRIOR TO BACKFILLING AROUND MANHOLE.
11. PROVIDE THRUST BLOCKS AT BENDS GREATER THAN 11–1/4 DEGREES AND AT CROSSES, TEES, WYES, CAPS, PLUGS VALVES AND HYDRANTS WITHIN CITY ROW IN ACCORDANCE WITH CITY OF MENLO PARK STANDARD SPECIFICATIONS AND DRAWINGS – LATEST EDITION, UNLESS NOTED OTHERWISE.
12. CONSTRUCT VERTICAL GRADE BREAKS AND HORIZONTAL DEFLECTIONS IN UNDERGROUND UTILITIES USING HIGH DEFLECTION COUPLINGS WITH A MAXIMUM TOTAL DEFLECTION OF 2 DEGREES PER COUPLING. DEFLECTION WILL NOT EXCEED 1/2 OF MANUFACTURER'S ALLOWABLE DEFLECTION.
13. HDPE PIPE DERIVES THEIR STRENGTH FROM THE COMPACTED BEDDING MATERIAL BELOW AND BESIDE THE PIPE HAUNCHES. CAREFULLY PLACE AND COMPACT PIPE BEDDING AND BACKFILL MATERIAL, AND ALSO THE INSERTION AND REMOVAL OF SHEET PILING ADJACENT TO IT. USE CAUTION WHEN OPERATING EQUIPMENT ON SUBGRADE NEAR PIPE INSTALLATIONS.
14. STORM DRAIN INLETS SHALL BE LABELED IN ACCORDANCE WITH THE CITY OF MENLO PARK'S STORM DRAIN INLET LABEL PROGRAM ("NO DUMPING FLOWS TO BAY").
15. PIPES TO BE ABANDONED IN PLACE SHALL BE CUT, FILLED WITH GROUT AND CAPPED AS INDICATED ON THE PLANS. (1)

## IV. EARTHWORK AND GRADING

1. THE CONTRACTOR SHALL CLEAR AREAS DESIGNATED FOR SITE CLEARING ON THE DEMOLITION PLAN AND NOTES. STRIPPED TOPSOIL SHALL BE STOCKPILED AS NOTED ON THE DEMOLITION PLAN. REMAINING DEBRIS AND SOIL SHALL BE LAWFULLY DISPOSED OF OFF–SITE CONSISTENT WITH GENERAL REQUIREMENTS.
2. CONTRACTOR SHALL DEWATER AREAS COVERED WITH STANDING WATER PRIOR TO PLACING FILL OR GRADING. CONTRACTOR SHALL MAINTAIN WORK IN PROGRESS FREE OF STANDING WATER. WATER SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
3. CONTRACTOR SHALL CLEAR DEBRIS FROM AREAS OF EARTHWORK AND GRADING PRIOR TO PLACING FILL OR STARTING GRADING OPERATIONS. DO NOT CLEAR AREAS OUTSIDE LIMIT OF WORK.
4. COMPACTION BY FLOODING, PONDING OR JETTING WILL NOT BE PERMITTED.
5. THE GEOTECHNICAL ENGINEER SHALL REVIEW AND OBSERVE ALL EARTHWORK AND GRADING ACTIVITIES. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT TITLED "GEOTECHNICAL INVESTIGATION REIMAGINE FLOOD PARK 215 BAY ROAD MENLO PARK, CALIFORNIA" BY CORNERSTONE EARTH GROUP DATED JUNE 27, 2022.
6. CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF EARTHWORK QUANTITIES.
7. REFER TO LANDSCAPE GRADING PLANS FOR GRADING, DEPTH OF FILL AND SOIL AMENDMENTS WITHIN THE PARK.
8. THE CONTRACTOR SHALL PERFORM THE FOLLOWING BEST MANAGEMENT PRACTICES:

    A. ALL EXPOSED SURFACES (E.G., PARKING AREAS, STAGING AREAS, SOIL PILES, GRADED AREAS AND UNPAVED ACCESS ROADS) SHALL BE WATERED TWO TIMES PER DAY.

    B. ALL HAUL TRUCKS TRANSPORTING SOIL, SAND OR OTHER LOOSE MATERIAL OFF–SITE SHALL BE COVERED.

    C. ALL VISIBLE MUD OR DIRT TRACK–OUT ONTO ADJACENT PUBLIC ROADS SHALL BE REMOVED USING WET POWER VACUUM STREET SWEEPERS AT LEAST ONCE PER DAY. THE USE OF DRY POWER SWEEPING IS PROHIBITED.

    D. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MPH.

    E. ALL ROADWAYS, DRIVEWAYS AND SIDEWALKS TO BE PAVED SHALL BE COMPLETED AS SOON AS POSSIBLE. BUILDING PADS SHALL BE LAID AS SOON AS POSSIBLE AFTER GRADING UNLESS SEEDING OR SOIL BINDERS ARE USED.

    F. IDLING TIMES SHALL BE MINIMIZED EITHER BY SHUTTING EQUIPMENT OFF WHEN NOT IN USE OR REDUCING THE MAXIMUM IDLING TIME TO FIVE MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXICS CONTROL MEASURE TITLE 13, SECTION 2485, OF CALIFORNIA CODE OF REGULATIONS [CCR]). CLEAR SIGNAGE SHALL BE PROVIDED FOR CONSTRUCTION WORKERS AT ALL ACCESS POINTS.

    G. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.

    H. POST A PUBLICLY VISIBLE SIGN WITH THE TELEPHONE NUMBER AND PERSON TO CONTACT AT THE LEAD AGENCY REGARDING DUST COMPLAINTS. THIS PERSON SHALL RESPOND AND TAKE CORRECTIVE ACTION WITHIN 48 HOURS. THE AIR DISTRICT'S PHONE NUMBER SHALL ALSO BE VISIBLE TO ENSURE COMPLIANCE WITH APPLICABLE REGULATIONS.

## V. STORMWATER MANAGEMENT

1. POST CONSTRUCTION IMPERVIOUS AREAS TO BE TREATED AS REQUIRED BY THE BAY AREA MUNICIPAL REGIONAL STORMWATER PERMIT (MRP) PROVISION C.3.

## VI. RECORD DRAWINGS

1. KEEP ACCURATE RECORD DRAWINGS SHOW THE FINAL LOCATION, ELEVATION, AND DESCRIPTION OF WORK.
2. PROVIDE THE LOCATION AND ELEVATION OF THE EXISTING IMPROVEMENTS ENCOUNTERED. CERTIFY THE "RED–LINED" AS–BUILT PLANS FOR THE PROJECT ON A SET OF CONSTRUCTION PLAN REPRODUCIBLE, AND DELIVER THE DRAWINGS TO THE OWNER'S REPRESENTATIVE.

## VII. STATEMENT OF RESPONSIBILITY

1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION\PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD BOTH DESIGN PROFESSIONAL AND THE CITY OF MENLO PARK HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF EITHER THE DESIGN PROFESSIONAL OR THE CITY OF MENLO PARK, RESPECTIVELY.

## VIII. UNAUTHORIZED CHANGES AND USES

1. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

## IX. DRAWING LANGUAGE

1. NOTES AND CALLOUTS ON DRAWINGS MAY USE IMPERATIVE LANGUAGE REQUIREMENTS EXPRESSED IMPERATIVELY ARE TO BE PERFORMED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

## BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 3, EPOCH 2010.00, IN ACCORDANCE WITH CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801–8819; SAID COORDINATES ARE BASED LOCALLY UPON FIELD–OBSERVED TIES RELATIVE TO STATIC GPS OBSERVATIONS MADE ON NGS ALUMINUM DISK "AA1871" DESIGNATED "HPGN D CA SAN ANTONIO". DISTANCES ARE GRID BASED. DIVIDE BY A COMBINED SCALE FACTOR OF 0.99994475 TO OBTAIN GROUND DISTANCES. VALUES SHOWN BELOW ARE FROM THE NGS DATASHEET FOR AA1871:

NORTHING: 1,947,025.66
EASTING: 6,101,392.17
(STATE PLANE COORDINATES, CALIFORNIA ZONE 3)

## BENCHMARK

NGS ALUMINUM DISK "AA1871" DESIGNATED "HPGN D CA SAN ANTONIO"
ELEVATION = 435.3 FEET (NAVD88 ORTHOMETRIC HEIGHT; GPS OBS)

## LEGEND

| | PROPOSED | EXISTING |
|---|---|---|
| BOUNDARY LINE | | |
| STORM DRAIN LINE | | SD SD |
| STORM DRAIN PERFORATED PIPE | | |
| SANITARY SEWER LINE | SS SS | SS SS |
| WATER LINE | W W | W W |
| FIRE WATER LINE | FW FW | |
| ELECTRICAL LINE | | E E |
| COMMUNICATION LINE | | COMM COMM |
| OVERHEAD LINE | | OH OH |
| LIMIT OF WORK LINE | | |
| STORM DRAIN MANHOLE | | |
| STORM DRAIN DROP INLET | | |
| STORM DRAIN CATCH BASIN | | |
| STORM DRAIN CLEANOUT | | |
| SANITARY SEWER CLEANOUT | | |
| SANITARY SEWER MANHOLE | | |
| FIRE HYDRANT | | |
| WATER VALVE | | |
| JOINT POLE | | |
| SIGN | | |
| TREE | | |

## ABBREVIATIONS

| SYMBOL | DESCRIPTION |
|---|---|
| AB | AGGREGATE BASE |
| AC | ASPHALT CONCRETE |
| ACP | ASBESTOS CEMENT PIPE |
| AD | AREA DRAIN |
| BC | BEGIN CURVE |
| BDPL | BAY DIVISION PIPELINE |
| BLDG | BUILDING |
| BMP | BEST MANAGEMENT PRACTICES |
| BW | BACK OF WALK |
| CB | CATCH BASIN |
| C/L, CL | CENTERLINE |
| C&G | CURB AND GUTTER |
| CO | CLEANOUT |
| COMM | COMMUNICATIONS |
| CSP | CORRUGATED STEEL PIPE |
| DI | DROP INLET |
| DW | DOMESTIC WATER |
| DWS | DETECTABLE WARNING SURFACE |
| DWY | DRIVEWAY |
| (E), EX | EXISTING |
| EAS | EASEMENT |
| EB | ELECTRICAL BOX |
| EC | END CURVE |
| EL, ELEC | ELECTRICAL |
| EV | ELECTRICAL VAULT |
| EVA | EMERGENCY VEHICLE ACCESS |
| EX | EXISTING |
| FC | FACE OF CURB |
| FH | FIRE HYDRANT |
| FNC | FENCE |
| FS | FIRE SERVICE |
| FW | FIRE WATER |
| G | GAS |
| GB | GRADE BREAK |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER |
| HDPE | HIGH DENSITY POLYETHLYLENE |
| HP | HIGH POINT |
| INV | INVERT ELEVATION |
| IRR | IRRIGATION |
| JB | JUNCTION BOX |
| JP | JOINT POLE |
| JT | JOINT TRENCH |
| L | LENGTH |
| LOW | LIMIT OF WORK |
| L/S, LS | LANDSCAPE |
| LP | LOW POINT |
| MAX | MAXIMUM |
| MH | MANHOLE |
| MIN | MINIMUM |
| MON | SURVEY MONUMENT |
| NTS | NOT TO SCALE |
| PG&E | PACIFIC GAS & ELECTRIC |
| PIV | POST INDICATOR VALVE |
| P/L | PROPERTY LINE |
| PR | PROPOSED |
| PVC | POLYVINYL CHLORIDE |
| PVMT | PAVEMENT |
| PW | POTABLE WATER |
| R | RADIUS |
| RIM | RIM ELEVATION |
| R/W | RIGHT OF WAY |
| RCP | REINFORCED CONCRETE PIPE |
| ROW | RIGHT–OF–WAY |
| RW | RECYCLED WATER |
| S/W, SW | SIDEWALK |
| SAP | SEE ARCHITECTURE PLANS |
| SB | SIGNAL BOX |
| SDCO | STORM DRAIN CLEANOUT |
| SD | STORM DRAIN |
| SDAD | STORM DRAIN AREA DRAIN |
| SDCB | STORM DRAIN CATCH BASIN |
| SDDI | STORM DRAIN DRAINAGE INLET |
| SDE | STORM DRAIN EASEMENT |
| SDJB | STORM DRAIN JUNCTION BOX |
| SDMH | STORM DRAIN MANHOLE |
| SFPUC | SAN FRANCISCO PUBLIC UTILITIES COMMISSION |
| SL | STREET LIGHT |
| SLP | SEE LANDSCAPE PLANS |
| SLB | STREET LIGHT BOX |
| SS | SANITARY SEWER |
| SSCO | SANITARY SEWER CLEANOUT |
| SSMH | SANITARY SEWER MANHOLE |
| STD | STANDARD |
| SW | SIDEWALK |
| S.W.E. | SIDEWALK EASEMENT |
| TB | TELEPHONE BOX |
| TC | TOP OF CURB |
| TELE | TELEPHONE |
| TG | TOP OF GRATE |
| TW | TOP OF WALK |
| TYP | TYPICAL |
| UB | UTILITY BOX |
| UTIL | UTILITY |
| VC | VERTICAL CURB |
| VCP | VITRIFIED CLAY PIPE |
| VIF | VERIFY IN FIELD |
| W | WATER |
| WM | WATER MAIN |
| WV | WATER VALVE |

## CIVIL SHEET INDEX


| | |
|---|---|
| C1.0 | GENERAL NOTES, LEGEND AND ABBREVIATIONS |
| C1.1 | CITY STANDARD GENERAL NOTES |
| C2.0 | EXISTING CONDITIONS PLAN |
| C2.1 | EXISTING CONDITIONS PLAN |
| C2.2 | EXISTING CONDITIONS PLAN |
| C2.3 | EXISTING CONDITIONS PLAN |
| C2.4 | EXISTING CONDITIONS PLAN |
| C2.5 | EXISTING CONDITIONS PLAN |
| C3.0 | DEMOLITION PLAN |
| C3.1 | DEMOLITION PLAN |
| C3.2 | DEMOLITION PLAN |
| C3.3 | DEMOLITION PLAN |
| C3.4 | DEMOLITION PLAN |
| C3.5 | DEMOLITION PLAN |
| C4.0 | PARKING LOT IMPROVEMENTS |
| C4.1 | PARKING LOT IMPROVEMENTS |
| C4.2 | PARKING LOT IMPROVEMENTS |
| C4.3 | PARKING LOT IMPROVEMENTS |
| C4.4 | CROSS SECTIONS |
| C4.5 | BAY ROAD IMPROVEMENTS |
| C5.0 | PARKING LOT GRADING & DRAINAGE PLAN |
| C5.1 | PARKING LOT GRADING & DRAINAGE PLAN |
| C5.2 | PARKING LOT GRADING & DRAINAGE PLAN |
| C5.3 | PARKING LOT GRADING & DRAINAGE PLAN |
| C6.0 | UTILITY PLAN |
| C6.1 | UTILITY PLAN |
| C6.2 | UTILITY PLAN |
| C6.3 | UTILITY PLAN |
| C6.4 | UTILITY PLAN |
| C6.5 | UTILITY PLAN |
| C7.0 | UTILITY PROFILES |
| C7.1 | UTILITY PROFILES |
| C7.2 | UTILITY PROFILES |
| C8.0 | STORMWATER MANAGEMENT PLAN |
| C8.1 | STORMWATER PRELIMINARY CALCULATIONS |
| C9.0 | EROSION CONTROL PLAN |
| C9.1 | EROSION CONTROL DETAILS |
| C9.2 | EROSION CONTROL DETAILS |
| C9.3 | BEST MANAGEMENT PRACTICES |
| C10.0 | DETAILS |
| C10.1 | DETAILS |
| C10.2 | DETAILS |
| C10.3 | DETAILS |
| C10.4 | DETAILS |
| C10.5 | DETAILS |
| C10.6 | DETAILS |



cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES M. DALLSTREAM No. 72339 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER MADER STILLMAN C 47302 12/31/25 CIVIL STATE OF CALIFORNIA

SHEET TITLE

## GENERAL NOTES, LEGEND & ABBREVIATIONS

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C1.0
(REV.)

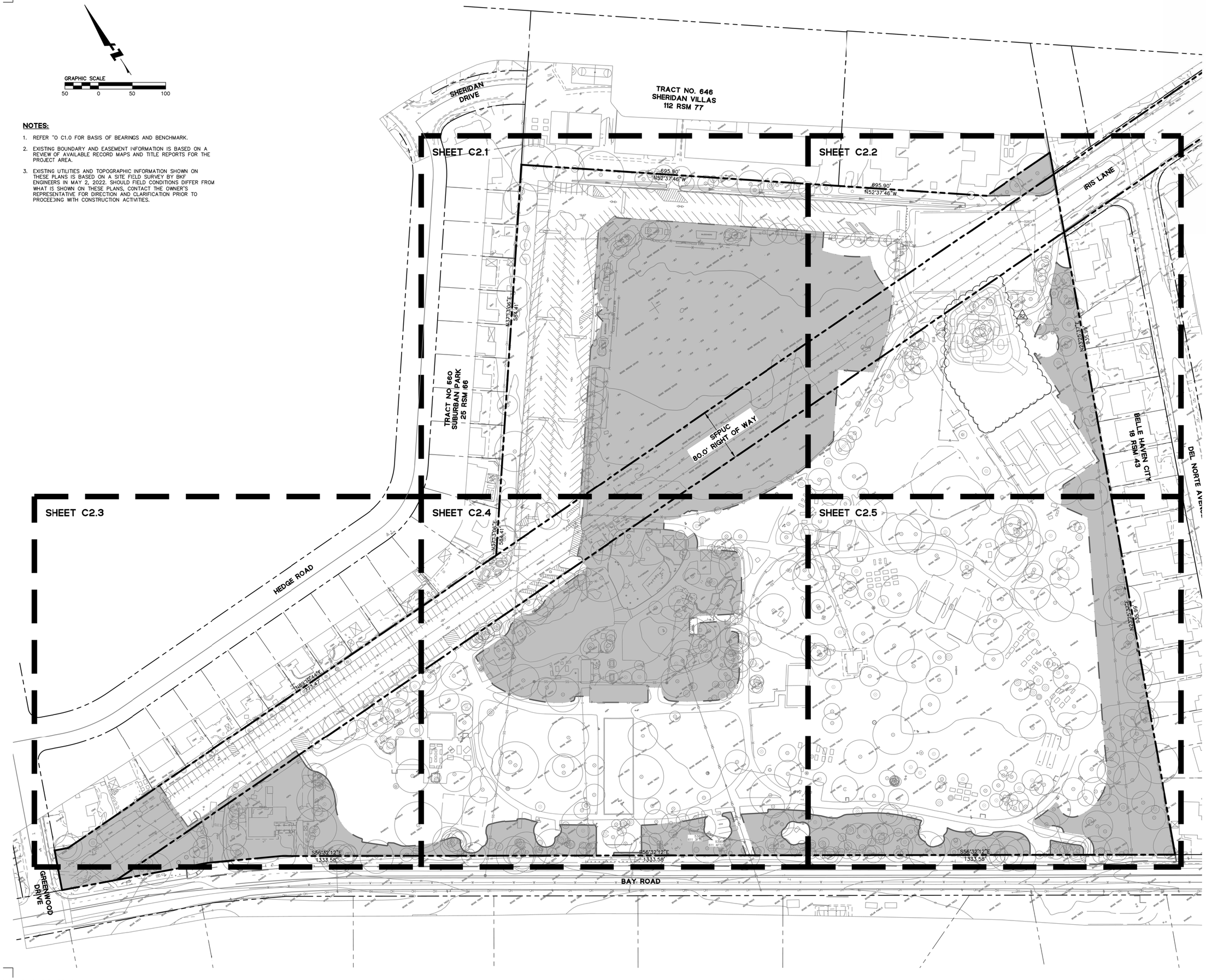
DRAWING NAME: \\BKF-RC\VOL4\2021\210178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C1.0 NOTES.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mayj

GRAPHIC SCALE

50 0 50 100

**NOTES:**

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2, 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.





cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES W. DALLOZ
No. 72339
CIVIL
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.06.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
No. C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

## EXISTING CONDITIONS PLAN

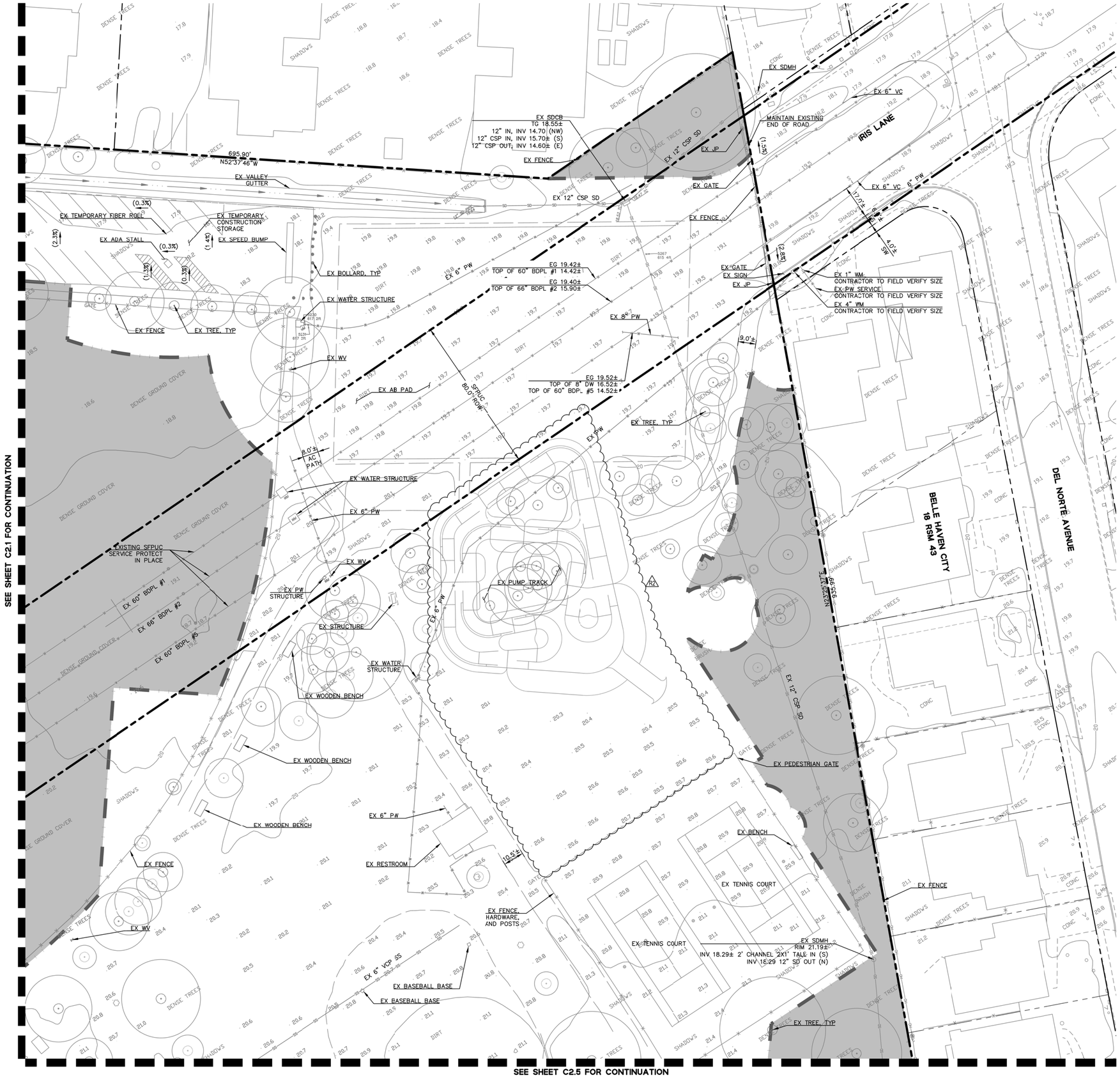
| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C2.0
(REV.)

DRAWING NAME: \\BKF-RC\VOL4\2021\210178_ReImagine_Flood_Park_Design\ENG\CD\SHEETS\C2.0 EXCOND.dwg
PLOT DATE: 01-19-24
PLOTTED BY: meyj

Xref ..\csm2101 sd -tb-30x42.dwg




GRAPHIC SCALE
20 0 20 40

**NOTES:**

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.

**LEGEND:**

LIMIT OF WORK

FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES W. DALLOLIO IV
No. 72339
Unregistered
CIVIL
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.06.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
MATTHEW MADER STILLMAN
C 47882
EXP 9/15
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

## EXISTING CONDITIONS PLAN

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C2.2
(REV.)

DRAWING NAME: \\BKF-RC\VOL4\2021\210178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C2.0 EXCOND.dwg
PLOT DATE: 01-19-24
PLOTTED BY: mej

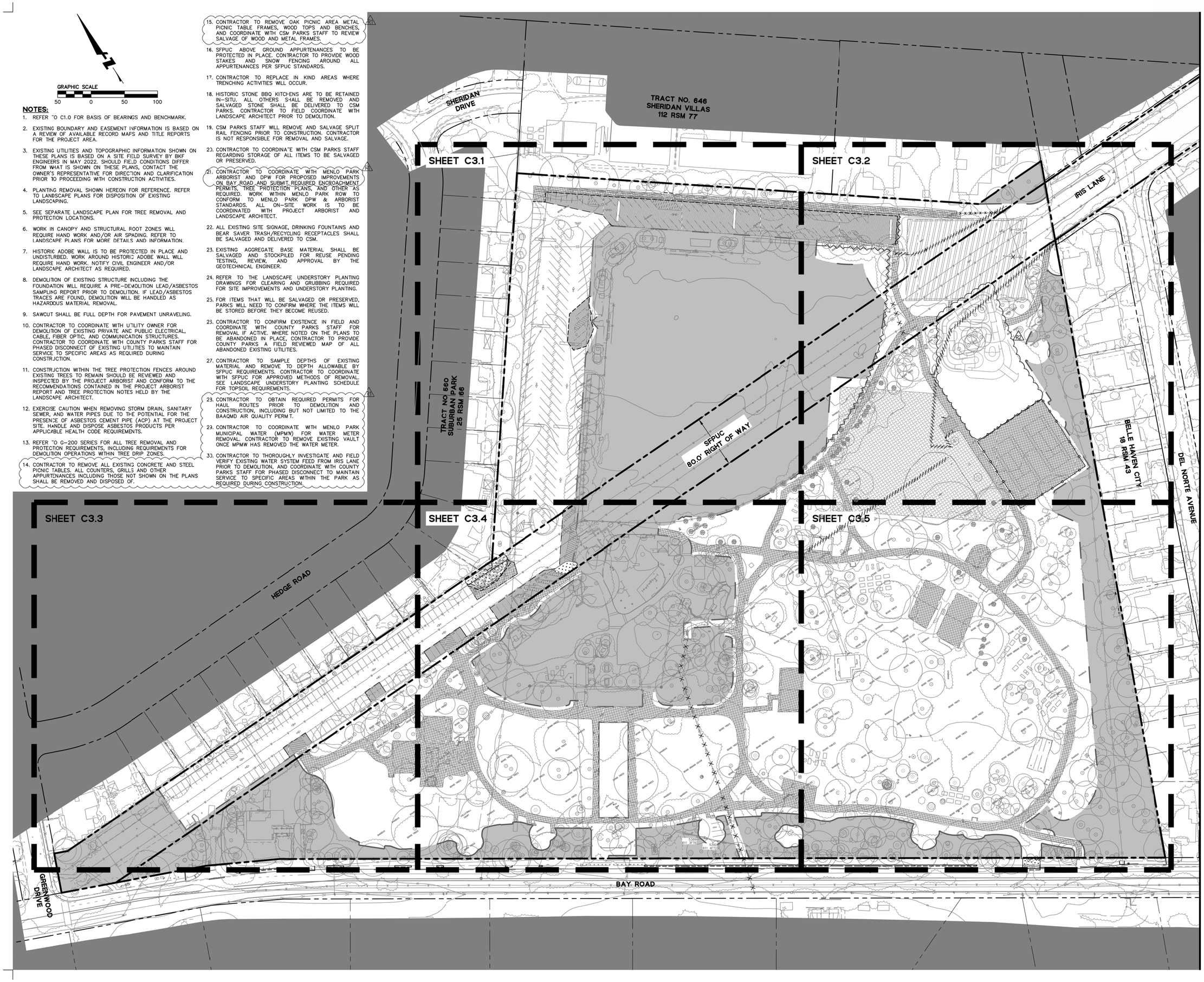
Xref ..\csm2101 sd -tb-30x42.dwg

GRAPHIC SCALE

50 0 50 100

**NOTES:**

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. PLANTING REMOVAL SHOWN HEREON FOR REFERENCE. REFER TO LANDSCAPE PLANS FOR DISPOSITION OF EXISTING LANDSCAPING.
5. SEE SEPARATE LANDSCAPE PLAN FOR TREE REMOVAL AND PROTECTION LOCATIONS.
6. WORK IN CANOPY AND STRUCTURAL ROOT ZONES WILL REQUIRE HAND WORK AND/OR AIR SPADING. REFER TO LANDSCAPE PLANS FOR MORE DETAILS AND INFORMATION.
7. HISTORIC ADOBE WALL IS TO BE PROTECTED IN PLACE AND UNDISTURBED. WORK AROUND HISTORIC ADOBE WALL WILL REQUIRE HAND WORK. NOTIFY CIVIL ENGINEER AND/OR LANDSCAPE ARCHITECT AS REQUIRED.
8. DEMOLITION OF EXISTING STRUCTURE INCLUDING THE FOUNDATION WILL REQUIRE A PRE-DEMOLITION LEAD/ASBESTOS SAMPLING REPORT PRIOR TO DEMOLITION. IF LEAD/ASBESTOS TRACES ARE FOUND, DEMOLITION WILL BE HANDLED AS HAZARDOUS MATERIAL REMOVAL.
9. SAWCUT SHALL BE FULL DEPTH FOR PAVEMENT UNRAVELING.
10. CONTRACTOR TO COORDINATE WITH UTILITY OWNER FOR DEMOLITION OF EXISTING PRIVATE AND PUBLIC ELECTRICAL, CABLE, FIBER OPTIC, AND COMMUNICATION STRUCTURES. CONTRACTOR TO COORDINATE WITH COUNTY PARKS STAFF FOR PHASED DISCONNECT OF EXISTING UTILITIES TO MAINTAIN SERVICE TO SPECIFIC AREAS AS REQUIRED DURING CONSTRUCTION.
11. CONSTRUCTION WITHIN THE TREE PROTECTION FENCES AROUND EXISTING TREES TO REMAIN SHOULD BE REVIEWED AND INSPECTED BY THE PROJECT ARBORIST AND CONFORM TO THE RECOMMENDATIONS CONTAINED IN THE PROJECT ARBORIST REPORT AND TREE PROTECTION NOTES HELD BY THE LANDSCAPE ARCHITECT.
12. EXERCISE CAUTION WHEN REMOVING STORM DRAIN, SANITARY SEWER, AND WATER PIPES DUE TO THE POTENTIAL FOR THE PRESENCE OF ASBESTOS CEMENT PIPE (ACP) AT THE PROJECT SITE. HANDLE AND DISPOSE ASBESTOS PRODUCTS PER APPLICABLE HEALTH CODE REQUIREMENTS.
13. REFER TO G-200 SERIES FOR ALL TREE REMOVAL AND PROTECTION REQUIREMENTS, INCLUDING REQUIREMENTS FOR DEMOLITION OPERATIONS WITHIN TREE DRIP ZONES.
14. CONTRACTOR TO REMOVE ALL EXISTING CONCRETE AND STEEL PICNIC TABLES. ALL COUNTERS, GRILLS AND OTHER APPURTENANCES INCLUDING THOSE NOT SHOWN ON THE PLANS SHALL BE REMOVED AND DISPOSED OF.
15. CONTRACTOR TO REMOVE OAK PICNIC AREA METAL PICNIC TABLE FRAMES, WOOD TOPS AND BENCHES, AND COORDINATE WITH CSM PARKS STAFF TO REVIEW SALVAGE OF WOOD AND METAL FRAMES.
16. SFPUC ABOVE GROUND APPURTENANCES TO BE PROTECTED IN PLACE. CONTRACTOR TO PROVIDE WOOD STAKES AND SNOW FENCING AROUND ALL APPURTENANCES PER SFPUC STANDARDS.
17. CONTRACTOR TO REPLACE IN KIND AREAS WHERE TRENCHING ACTIVITIES WILL OCCUR.
18. HISTORIC STONE BBQ KITCHENS ARE TO BE RETAINED IN-SITU. ALL OTHERS SHALL BE REMOVED AND SALVAGED STONE SHALL BE DELIVERED TO CSM PARKS. CONTRACTOR TO FIELD COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO DEMOLITION.
19. CSM PARKS STAFF WILL REMOVE AND SALVAGE SPLIT RAIL FENCING PRIOR TO CONSTRUCTION. CONTRACTOR IS NOT RESPONSIBLE FOR REMOVAL AND SALVAGE.
23. CONTRACTOR TO COORDINATE WITH CSM PARKS STAFF REGARDING STORAGE OF ALL ITEMS TO BE SALVAGED OR PRESERVED.
21. CONTRACTOR TO COORDINATE WITH MENLO PARK ARBORIST AND DPW FOR PROPOSED IMPROVEMENTS ON BAY ROAD AND SUBMIT REQUIRED ENCROACHMENT PERMITS, TREE PROTECTION PLANS, AND OTHER AS REQUIRED. WORK WITHIN MENLO PARK ROW TO CONFORM TO MENLO PARK DPW & ARBORIST STANDARDS. ALL ON-SITE WORK IS TO BE COORDINATED WITH PROJECT ARBORIST AND LANDSCAPE ARCHITECT.
22. ALL EXISTING SITE SIGNAGE, DRINKING FOUNTAINS AND BEAR SAVER TRASH/RECYCLING RECEPTACLES SHALL BE SALVAGED AND DELIVERED TO CSM.
23. EXISTING AGGREGATE BASE MATERIAL SHALL BE SALVAGED AND STOCKPILED FOR REUSE PENDING TESTING, REVIEW, AND APPROVAL BY THE GEOTECHNICAL ENGINEER.
24. REFER TO THE LANDSCAPE UNDERSTORY PLANTING DRAWINGS FOR CLEARING AND GRUBBING REQUIRED FOR SITE IMPROVEMENTS AND UNDERSTORY PLANTING.
25. FOR ITEMS THAT WILL BE SALVAGED OR PRESERVED, PARKS WILL NEED TO CONFIRM WHERE THE ITEMS WILL BE STORED BEFORE THEY BECOME REUSED.
25. CONTRACTOR TO CONFIRM EXISTENCE IN FIELD AND COORDINATE WITH COUNTY PARKS STAFF FOR REMOVAL IF ACTIVE. WHERE NOTED ON THE PLANS TO BE ABANDONED IN PLACE, CONTRACTOR TO PROVIDE COUNTY PARKS A FIELD REVIEWED MAP OF ALL ABANDONED EXISTING UTILITIES.
27. CONTRACTOR TO SAMPLE DEPTHS OF EXISTING MATERIAL AND REMOVE TO DEPTH ALLOWABLE BY SFPUC REQUIREMENTS. CONTRACTOR TO COORDINATE WITH SFPUC FOR APPROVED METHODS OF REMOVAL. SEE LANDSCAPE UNDERSTORY PLANTING SCHEDULE FOR TOPSOIL REQUIREMENTS.
23. CONTRACTOR TO OBTAIN REQUIRED PERMITS FOR HAUL ROUTES PRIOR TO DEMOLITION AND CONSTRUCTION, INCLUDING BUT NOT LIMITED TO THE BAAQMD AIR QUALITY PERMIT.
23. CONTRACTOR TO COORDINATE WITH MENLO PARK MUNICIPAL WATER (MPMW) FOR WATER METER REMOVAL. CONTRACTOR TO REMOVE EXISTING VAULT ONCE MPMW HAS REMOVED THE WATER METER.
33. CONTRACTOR TO THOROUGHLY INVESTIGATE AND FIELD VERIFY EXISTING WATER SYSTEM FEED FROM IRIS LANE PRIOR TO DEMOLITION, AND COORDINATE WITH COUNTY PARKS STAFF FOR PHASED DISCONNECT TO MAINTAIN SERVICE TO SPECIFIC AREAS WITHIN THE PARK AS REQUIRED DURING CONSTRUCTION.




DRAWING NAME: \\BKF-RCVOL4\2021\210178_Reinagine_Flood_Park_Design\ENGV\CD\SHEETS\C3.0 DEMO.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mmj


cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES W. DALLOCCHIO JR.
No. 72339
CIVIL
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.06.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R1 | BID ADDENDUM R1 | 12.22.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

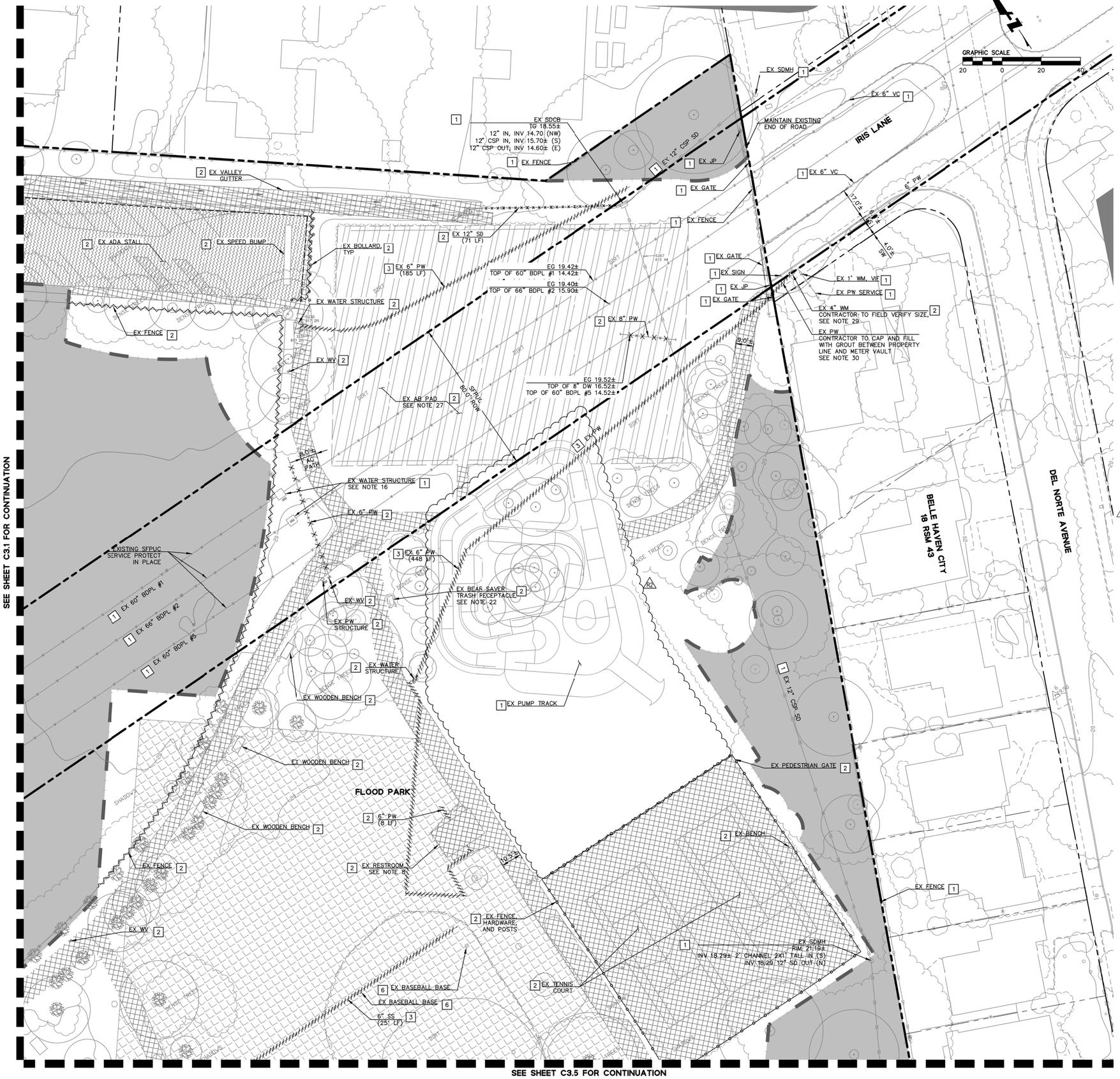
SHEET TITLE

## DEMOLITION PLAN

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C3.0
(REV.)




**NOTES:**

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022 . SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. PLANTING REMOVAL SHOWN HEREON FOR REFERENCE. REFER TO LANDSCAPE PLANS FOR DISPOSITION OF EXISTING LANDSCAPING.
5. SEE SEPARATE LANDSCAPE PLAN FOR TREE REMOVAL AND PROTECTION LOCATIONS.
6. WORK IN CANOPY AND STRUCTURAL ROOT ZONES WILL REQUIRE HAND WORK AND/OR AIR SPADING. REFER TO LANDSCAPE PLANS FOR MORE DETAILS AND INFORMATION.
7. HISTORIC ADOBE WALL IS TO BE PROTECTED IN PLACE AND UNDISTURBED. WORK AROUND HISTORIC ADOBE WALL WILL REQUIRE HAND WORK. NOTIFY CIVIL ENGINEER AND/OR LANDSCAPE ARCHITECT AS REQUIRED.
8. DEMOLITION OF EXISTING STRUCTURE INCLUDING THE FOUNDATION WILL REQUIRE A PRE-DEMOLITION LEAD/ASBESTOS SAMPLING REPORT PRIOR TO DEMOLITION. IF LEAD/ASBESTOS TRACES ARE FOUND, DEMOLITION WILL BE HANDLED AS HAZARDOUS MATERIAL REMOVAL.
9. SAWCUT SHALL BE FULL DEPTH FOR PAVEMENT UNRAVELING.
10. CONTRACTOR TO COORDINATE WITH UTILITY OWNER FOR DEMOLITION OF EXISTING PRIVATE AND PUBLIC ELECTRICAL, CABLE, FIBER OPTIC, AND COMMUNICATION STRUCTURES. CONTRACTOR TO COORDINATE WITH COUNTY PARKS STAFF FOR PHASED DISCONNECT OF EXISTING UTILITIES TO MAINTAIN SERVICE TO SPECIFIC AREAS AS REQUIRED DURING CONSTRUCTION.
11. CONSTRUCTION WITHIN THE TREE PROTECTION FENCES AROUND EXISTING TREES TO REMAIN SHOULD BE REVIEWED AND INSPECTED BY THE PROJECT ARBORIST AND CONFORM TO THE RECOMMENDATIONS CONTAINED IN THE PROJECT ARBORIST REPORT AND TREE PROTECTION NOTES HELD BY THE LANDSCAPE ARCHITECT.
12. EXERCISE CAUTION WHEN REMOVING STORM DRAIN, SANITARY SEWER, AND WATER PIPES DUE TO THE POTENTIAL FOR THE PRESENCE OF ASBESTOS CEMENT PIPE (ACP) AT THE PROJECT SITE. HANDLE AND DISPOSE ASBESTOS PRODUCTS PER APPLICABLE HEALTH CODE REQUIREMENTS.
13. REFER TO G-200 SERIES FOR ALL TREE REMOVAL AND PRCTECTION REQUIREMENTS, INCLUDING REQUIREMENTS FOR DEMOLITION OPERATIONS WITHIN TREE DRIP ZONES.
14. CONTRACTOR TO REMOVE ALL EXISTING CONCRETE AND STEEL PICNIC TABLES, ALL COUNTERS, GRILLS AND OTHER APPURTENANCES INCLUDING THOSE NOT SHOWN ON THE PLANS SHALL BE REMOVED AND DISPOSED OF.
15. CONTRACTOR TO REMOVE OAK PICNIC AREA METAL PICNIC TABLE FRAMES, WOOD TOPS AND BENCHES, AND COORDINATE WITH CSM PARKS STAFF TO REVIEW SALVAGE OF WOOD AND METAL FRAMES.
16. SFPUC ABOVE GROUND APPURTENANCES TO BE PROTECTED IN PLACE. CONTRACTOR TO PROVIDE WOOD STAKES AND SNOW FENCING AROUND ALL APPURTENANCES PER SFPUC STANDARDS.
17. CONTRACTOR TO REPLACE IN KIND AREAS WHERE TRENCHING ACTIVITIES WILL OCCUR.
18. HISTORIC STONE BBQ KITCHENS ARE TO BE RETAINED IN-SITU. ALL OTHERS SHALL BE REMOVED AND SALVAGED STONE SHALL BE DELIVERED TO CSM PARKS. CONTRACTOR TO FIELD COORDINATE WITH LANDSCAPE ARCHITECT PRIOR TO DEMOLITION.
19. CSM PARKS STAFF WILL REMOVE AND SALVAGE SPLIT RAIL FENCING PRIOR TO CONSTRUCTION. CONTRACTOR IS NOT RESPONSIBLE FOR REMOVAL AND SALVAGE.
20. CONTRACTOR TO COORDINATE WITH CSM PARKS STAFF REGARDING STORAGE OF ALL ITEMS TO BE SALVAGED OR PRESERVED.
21. CONTRACTOR TO COORDINATE WITH MENLO PARK ARBORIST AND DPW FOR PROPOSED IMPROVEMENTS ON BAY ROAD) AND SUBMIT REQUIRED ENCROACHMENT PERMITS, TREE PROTECTION PLANS, AND OTHER AS REQUIRED. WORK WITHIN MENLO PARK ROW TO CONFORM TO MENLO PARK DPW & ARBORIST STANDARDS. ALL ON-SITE WORK IS TO BE COORDINATED WITH PROJECT ARBORIST AND LANDSCAPE ARCHITECT.
22. ALL EXISTING SITE SIGNAGE, DRINKING FOUNTAINS AND BEAR SAVER TRACH/RECYCLING RECEPTACLES SHALL BE SALVAGED AND DELIVERED TO CSM.
23. EXISTING AGGREGATE BASE MATERIAL SHALL BE SALVAGED AND STOCKPILED FOR REUSE PENDING TESTING, REVIEW, AND APPROVAL BY THE GEOTECHNICAL ENGINEER.
24. REFER TO THE LANDSCAPE UNDERSTORY PLANTING DRAWINGS FOR CLEARING AND GRUBBING REQUIRED FOR SITE IMPROVEMENTS AND UNDERSTORY PLANTING.
25. FOR ITEMS THAT WILL BE SALVAGED OR PRESERVED, PARKS WILL NEED TO CONFIRM WHERE THE ITEMS WLL BE STORED BEFORE THEY BECOME REUSED.
26. CONTRACTOR TO CONFIRM EXISTENCE IN FIELD AND COORDINATE WITH COUNTY PARKS STAFF FOR REMOVAL IF ACTIVE. WHERE NOTED ON THE PLANS TO BE ABANDONED IN PLACE, CONTRACTOR TO PROVIDE COUNTY PARKS A FIELD REVIEWED MAP OF ALL ABANDONED EXISTING UTILITIES.
27. CONTRACTOR TO SAMPLE DEPTHS OF EXISTING MATERIAL AND REMOVE TO DEPTH ALLOWABLE BY SFPUC REQUIREMENTS. CONTRACTOR TO COORDINATE WITH SFPUC FOR APPROVED METHODS OF REMOVAL. SEE LANDSCAPE UNDERSTORY PLANTING SCHEDULE FOR TOPSOIL REQUIREMENTS.
28. CONTRACTOR TO OBTAIN REQUIRED PERMITS FOR HAUL ROUTES PRIOR TO DEMOLITION AND CONSTRUCTION, INCLUDING BUT NOT LIMITED TO THE BAAQMD AIR QUALITY PERMIT.
29. CONTRACTOR TO COORDINATE WITH MENLO PARK MUNICIPAL WATER (MPMW) FOR WATER METER REMOVAL. CONTRACTOR TO REMOVE EXISTING VAULT ONCE MPMW HAS REMOVED THE WATER METER.
30. CONTRACTOR TO THOROUGHLY INVESTIGATE AND FIELD VERIFY EXISTING WATER SYSTEM FEED FROM IRIS LANE PRIOR TO DEMOLITION, AND COORDINATE WITH COUNTY PARKS STAFF FOR PHASED DISCONNECT TO MAINTAIN SERVICE TO SPECIFIC AREAS WITHIN THE PARK AS REQUIRED DURING CONSTRUCTION.

**LEGEND:**

- [1] TO REMAIN/PROTECT IN PLACE
- [2] TO BE DEMOLISHED AND REMOVED
- [3] TO BE ABANDONED
- [4] EXISTING PICNIC TABLES (SEE NOTES 14 & 15)
- [5] TO BE REINSTALLED IN PLACE
- [6] TO BE SALVAGED AND DELIVERED TO COUNTY PARKS
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY
- HARDSCAPE TO BE DEMOLISHED & REMOVED
- AB TO BE DEMOLISHED AND REMOVED
- AC GRIND AND OVERLAY
- CLEAR AND GRUB EXISTING LANDSCAPE, SLP PER NOTE 24
- CLEARING UNDER PROPOSED PAVING AND MULTI-USE FIELD. REMOVE AND DISPOSE OF 3-4 INCHES OF EXISTING VEGETATION, ORGANIC MATERIAL AND DEBRIS.
- LIMIT OF WORK
- SAWCUT LINE
- LIMIT OF GRIND & OVERLAY
- FENCE TO BE REMOVED
- FENCE TO BE DISASSEMBLED AND STOCKPILED AT MAINTENANCE YARD
- UTILITY TO BE ABANDONED
- UTILITY TO BE REMOVED
- CONCRETE CURB TO BE REMOVED
- EXISTING TREE, SLP FOR TREE DISPOSITION

cmg Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COLNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES R. DALDORPH No. 72339 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BIC ADDENDUM 1 | 07.63.23 |
| 2 | BIC ADDENDUM 2 | 08.64.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R1 | BIC ADDENDUM R1 | 12.22.23 |
| R2 | BIC ADDENDUM R2 | 01.19.24 |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER ANN MAUER STILLMAN C 47882 EXPIRES CIVIL STATE OF CALIFORNIA

SHEET TITLE

## DEMOLITION PLAN

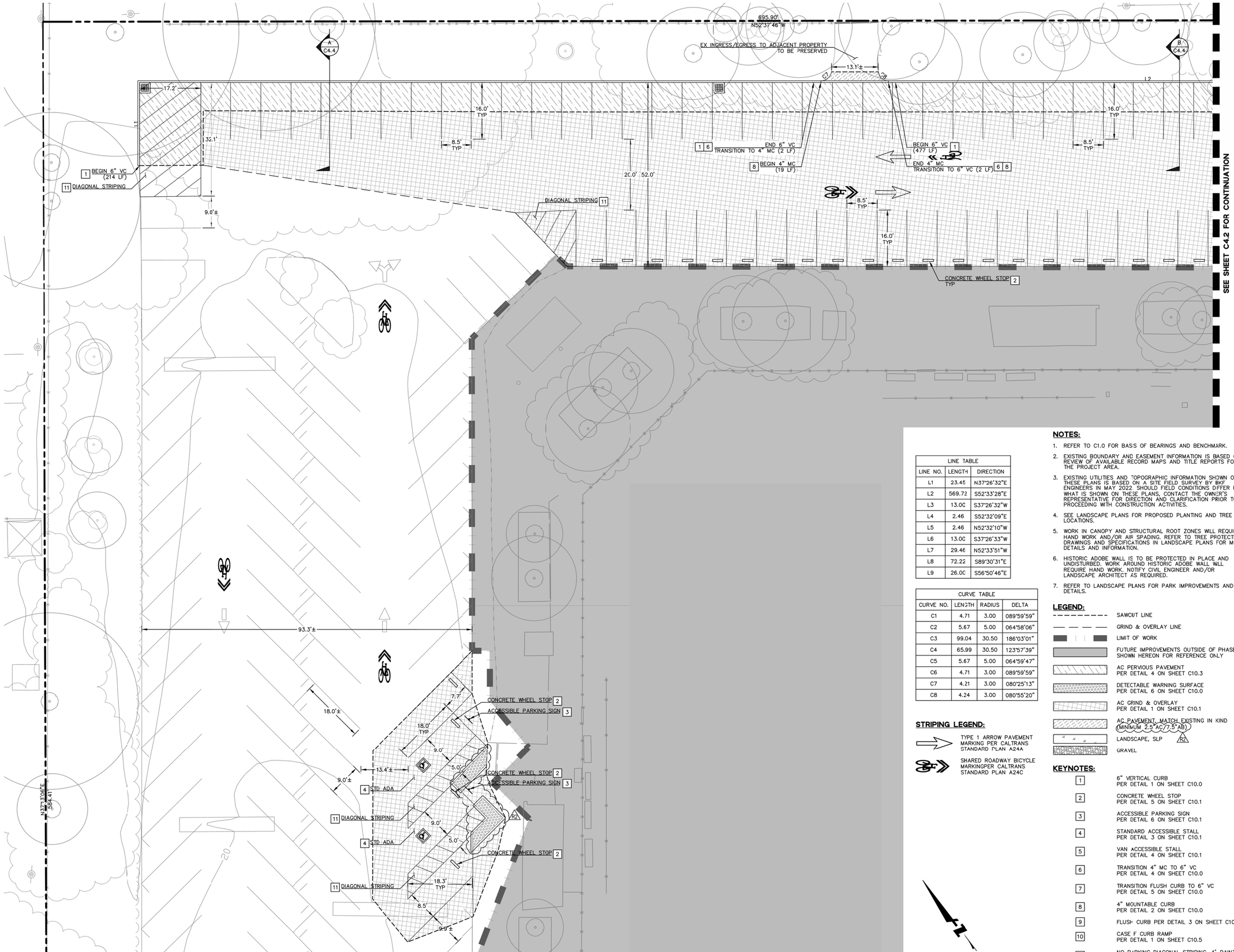
| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C3.2 (REV.)

DRAWING NAME: \\BKF-RCV\VOL4\2021\210178_ReimagineFlood_Park_Design\ENG\CD\SHEETS\C3.0 DEMO.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mey

Xref ..\csm2101 sd -tb-30x42.dwg




| LINE TABLE | | |
|---|---|---|
| LINE NO. | LENGTH | DIRECTION |
| L1 | 23.45 | N37°26'32"E |
| L2 | 569.72 | S52°33'28"E |
| L3 | 13.00 | S37°26'32"W |
| L4 | 2.46 | S52°32'09"E |
| L5 | 2.46 | N52°32'10"W |
| L6 | 13.00 | S37°26'33"W |
| L7 | 29.46 | N52°33'51"W |
| L8 | 72.22 | S89°30'31"E |
| L9 | 26.00 | S56°50'46"E |

| CURVE TABLE | | | |
|---|---|---|---|
| CURVE NO. | LENGTH | RADIUS | DELTA |
| C1 | 4.71 | 3.00 | 089°59'59" |
| C2 | 5.67 | 5.00 | 064°58'06" |
| C3 | 99.04 | 30.50 | 186°03'01" |
| C4 | 65.99 | 30.50 | 123°57'39" |
| C5 | 5.67 | 5.00 | 064°59'47" |
| C6 | 4.71 | 3.00 | 089°59'59" |
| C7 | 4.21 | 3.00 | 080°25'13" |
| C8 | 4.24 | 3.00 | 080°55'20" |

**STRIPING LEGEND:**

TYPE 1 ARROW PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24A

SHARED ROADWAY BICYCLE MARKINGPER CALTRANS STANDARD PLAN A24C

GRAPHIC SCALE
10 0 10 20

**NOTES:**

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. SEE LANDSCAPE PLANS FOR PROPOSED PLANTING AND TREE LOCATIONS.
5. WORK IN CANOPY AND STRUCTURAL ROOT ZONES WILL REQUIRE HAND WORK AND/OR AIR SPADING. REFER TO TREE PROTECTION DRAWINGS AND SPECIFICATIONS IN LANDSCAPE PLANS FOR MORE DETAILS AND INFORMATION.
6. HISTORIC ADOBE WALL IS TO BE PROTECTED IN PLACE AND UNDISTURBED. WORK AROUND HISTORIC ADOBE WALL WILL REQUIRE HAND WORK. NOTIFY CIVIL ENGINEER AND/OR LANDSCAPE ARCHITECT AS REQUIRED.
7. REFER TO LANDSCAPE PLANS FOR PARK IMPROVEMENTS AND DETAILS.

**LEGEND:**

- SAWCUT LINE
- GRIND & OVERLAY LINE
- LIMIT OF WORK
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY
- AC PERVIOUS PAVEMENT PER DETAIL 4 ON SHEET C10.3
- DETECTABLE WARNING SURFACE PER DETAIL 6 ON SHEET C10.0
- AC GRIND & OVERLAY PER DETAIL 1 ON SHEET C10.1
- AC PAVEMENT, MATCH EXISTING IN KIND (MINIMUM 2.5"AC/7.5"AB)
- LANDSCAPE, SLP R2
- GRAVEL

**KEYNOTES:**

1. 6" VERTICAL CURB PER DETAIL 1 ON SHEET C10.0
2. CONCRETE WHEEL STOP PER DETAIL 5 ON SHEET C10.1
3. ACCESSIBLE PARKING SIGN PER DETAIL 6 ON SHEET C10.1
4. STANDARD ACCESSIBLE STALL PER DETAIL 3 ON SHEET C10.1
5. VAN ACCESSIBLE STALL PER DETAIL 4 ON SHEET C10.1
6. TRANSITION 4" MC TO 6" VC PER DETAIL 4 ON SHEET C10.0
7. TRANSITION FLUSH CURB TO 6" VC PER DETAIL 5 ON SHEET C10.0
8. 4" MOUNTABLE CURB PER DETAIL 2 ON SHEET C10.0
9. FLUSH CURB PER DETAIL 3 ON SHEET C10.0
10. CASE F CURB RAMP PER DETAIL 1 ON SHEET C10.5
11. NO PARKING DIAGONAL STRIPING, 4" PAINTED WHITE STRIPES AT 36" ON CENTER
12. 6" VERTICAL CURB (CALTRANS TYPE B1) PER DETAIL 3 ON SHEET C10.5
13. CURB CUT PER DETAIL 7 ON SHEET C10.0
14. SELF-RETAINING AREA PER DETAIL 3 ON SHEET C10.0

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES W. DALLOSTA No. 72339 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BIC ADDENDUM 1 | 07.03.23 |
| 2 | BIC ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BIC ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER JIAN MAJER STILLMAN C 47882 EXPIRES 06/30/24 CIVIL STATE OF CALIFORNIA

SHEET TITLE

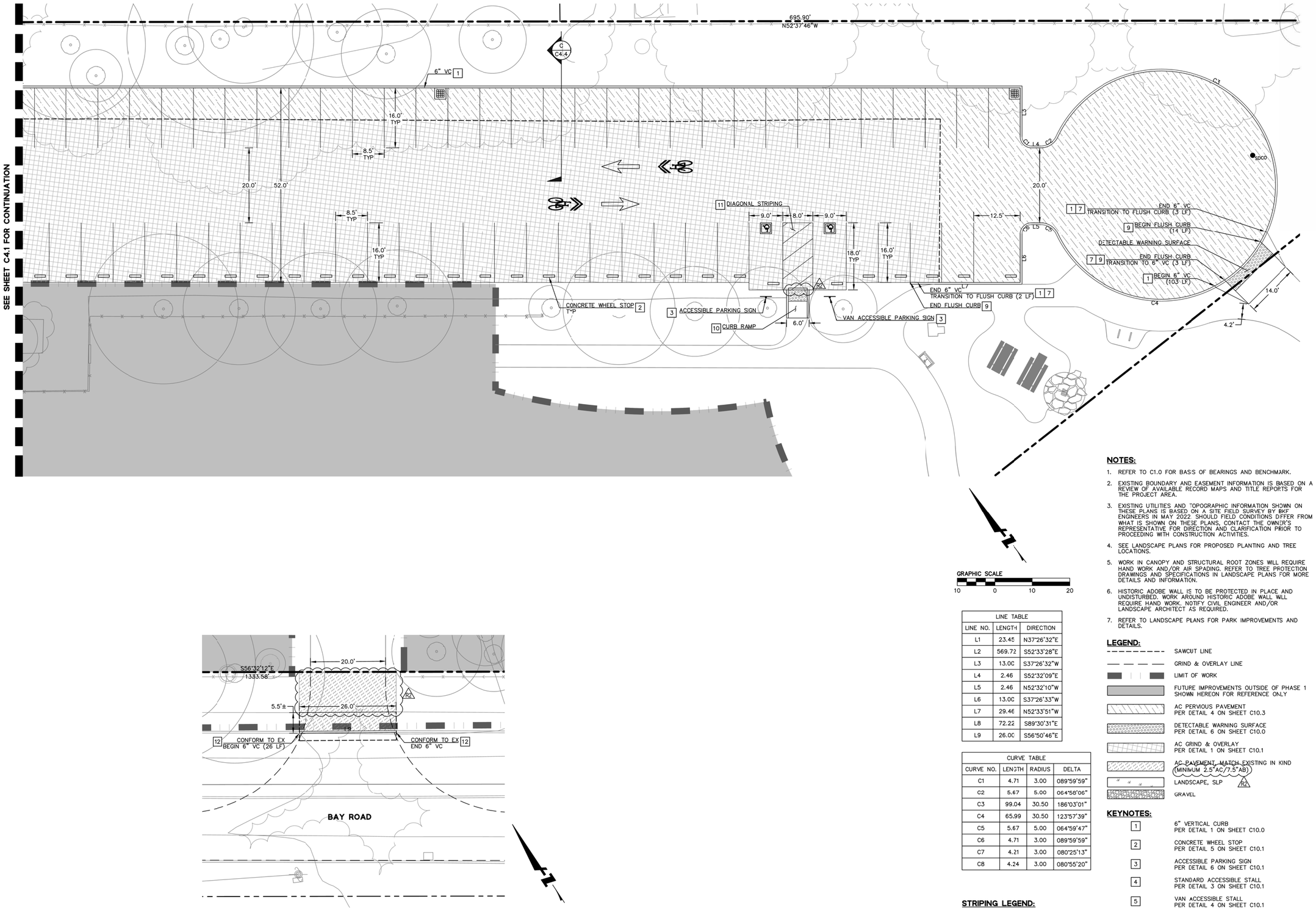
## PARKING LOT IMPROVEMENTS

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C4.1 (REV.)

DRAWING NAME: \\Bkf-rc\vol4\2021\20178_ReimagineFlood_Park_Design\ENG\CD\SHEETS\C4.0 HZCT.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mejy




GRAPHIC SCALE

10 0 10 20

| LINE TABLE | | |
|---|---|---|
| LINE NO. | LENGTH | DIRECTION |
| L1 | 23.45 | N37°26'32"E |
| L2 | 569.72 | S52°33'28"E |
| L3 | 13.00 | S37°26'32"W |
| L4 | 2.46 | S52°32'09"E |
| L5 | 2.46 | N52°32'10"W |
| L6 | 13.00 | S37°26'33"W |
| L7 | 29.46 | N52°33'51"W |
| L8 | 72.22 | S89°30'31"E |
| L9 | 26.00 | S56°50'46"E |

| CURVE TABLE | | | |
|---|---|---|---|
| CURVE NO. | LENGTH | RADIUS | DELTA |
| C1 | 4.71 | 3.00 | 089°59'59" |
| C2 | 5.67 | 5.00 | 064°58'06" |
| C3 | 99.04 | 30.50 | 186°03'01" |
| C4 | 65.99 | 30.50 | 123°57'39" |
| C5 | 5.67 | 5.00 | 064°59'47" |
| C6 | 4.71 | 3.00 | 089°59'59" |
| C7 | 4.21 | 3.00 | 080°25'13" |
| C8 | 4.24 | 3.00 | 080°55'20" |

**STRIPING LEGEND:**

TYPE 1 ARROW PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24A

SHARED ROADWAY BICYCLE MARKINGPER CALTRANS STANDARD PLAN A24C

**NOTES:**

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. SEE LANDSCAPE PLANS FOR PROPOSED PLANTING AND TREE LOCATIONS.
5. WORK IN CANOPY AND STRUCTURAL ROOT ZONES WILL REQUIRE HAND WORK AND/OR AIR SPADING. REFER TO TREE PROTECTION DRAWINGS AND SPECIFICATIONS IN LANDSCAPE PLANS FOR MORE DETAILS AND INFORMATION.
6. HISTORIC ADOBE WALL IS TO BE PROTECTED IN PLACE AND UNDISTURBED. WORK AROUND HISTORIC ADOBE WALL WILL REQUIRE HAND WORK. NOTIFY CIVIL ENGINEER AND/OR LANDSCAPE ARCHITECT AS REQUIRED.
7. REFER TO LANDSCAPE PLANS FOR PARK IMPROVEMENTS AND DETAILS.

**LEGEND:**

- SAWCUT LINE
- GRIND & OVERLAY LINE
- LIMIT OF WORK
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY
- AC PERVIOUS PAVEMENT PER DETAIL 4 ON SHEET C10.3
- DETECTABLE WARNING SURFACE PER DETAIL 6 ON SHEET C10.0
- AC GRIND & OVERLAY PER DETAIL 1 ON SHEET C10.1
- AC PAVEMENT, MATCH EXISTING IN KIND (MINIMUM 2.5"AC/7.5"AB)
- LANDSCAPE, SLP R2
- GRAVEL

**KEYNOTES:**

1. 6" VERTICAL CURB PER DETAIL 1 ON SHEET C10.0
2. CONCRETE WHEEL STOP PER DETAIL 5 ON SHEET C10.1
3. ACCESSIBLE PARKING SIGN PER DETAIL 6 ON SHEET C10.1
4. STANDARD ACCESSIBLE STALL PER DETAIL 3 ON SHEET C10.1
5. VAN ACCESSIBLE STALL PER DETAIL 4 ON SHEET C10.1
6. TRANSITION 4" MC TO 6" VC PER DETAIL 4 ON SHEET C10.0
7. TRANSITION FLUSH CURB TO 6" VC PER DETAIL 5 ON SHEET C10.0
8. 4" MOUNTABLE CURB PER DETAIL 2 ON SHEET C10.0
9. FLUSH CURB PER DETAIL 3 ON SHEET C10.0
10. CASE F CURB RAMP PER DETAIL 1 ON SHEET C10.5
11. NO PARKING DIAGONAL STRIPING, 4" PAINTED WHITE STRIPES AT 36" ON CENTER
12. 6" VERTICAL CURB (CALTRANS TYPE B1) PER DETAIL 3 ON SHEET C10.5
13. CURB CUT PER DETAIL 7 ON SHEET C10.0
14. SELF-RETAINING AREA PER DETAIL 3 ON SHEET C10.




**DETAIL A - BAY ROAD ACCESS**
SCALE: 1"=10'


cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES R. DALLOSTA No. 72339 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BIC ADDENDUM 1 | 07.63.23 |
| 2 | BIC ADDENDUM 2 | 08.64.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BIC ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER ANN MAJER STILLMAN C 47882 EXPIRES CIVIL STATE OF CALIFORNIA

SHEET TITLE

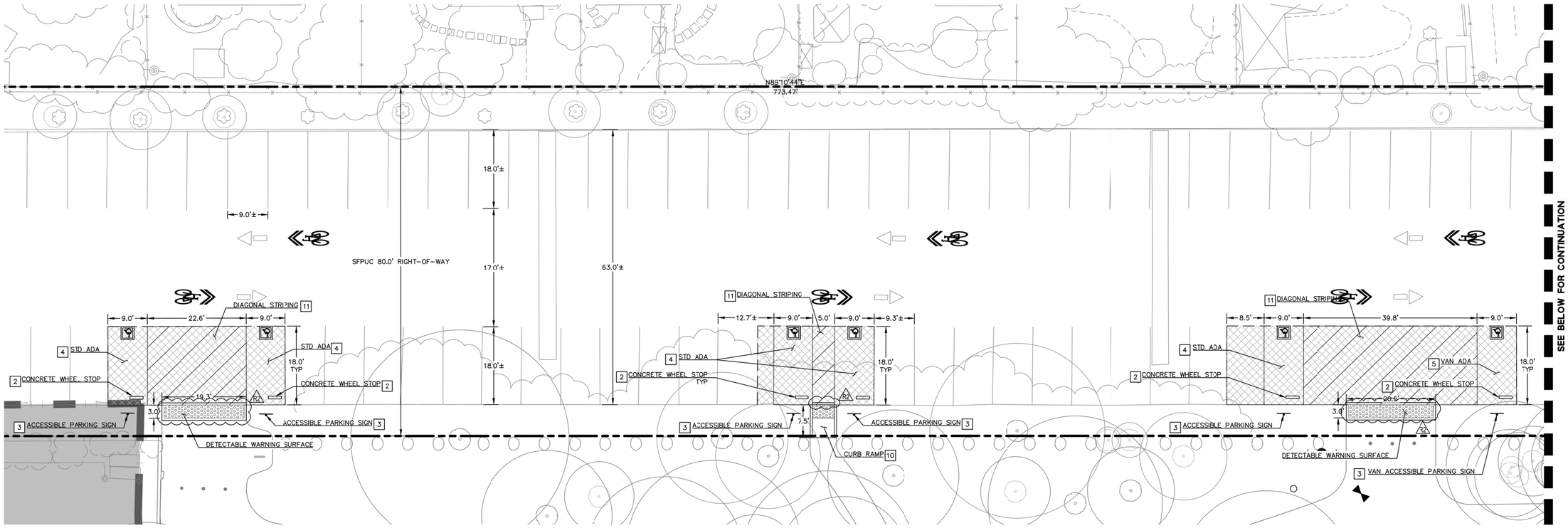
## PARKING LOT IMPROVEMENTS

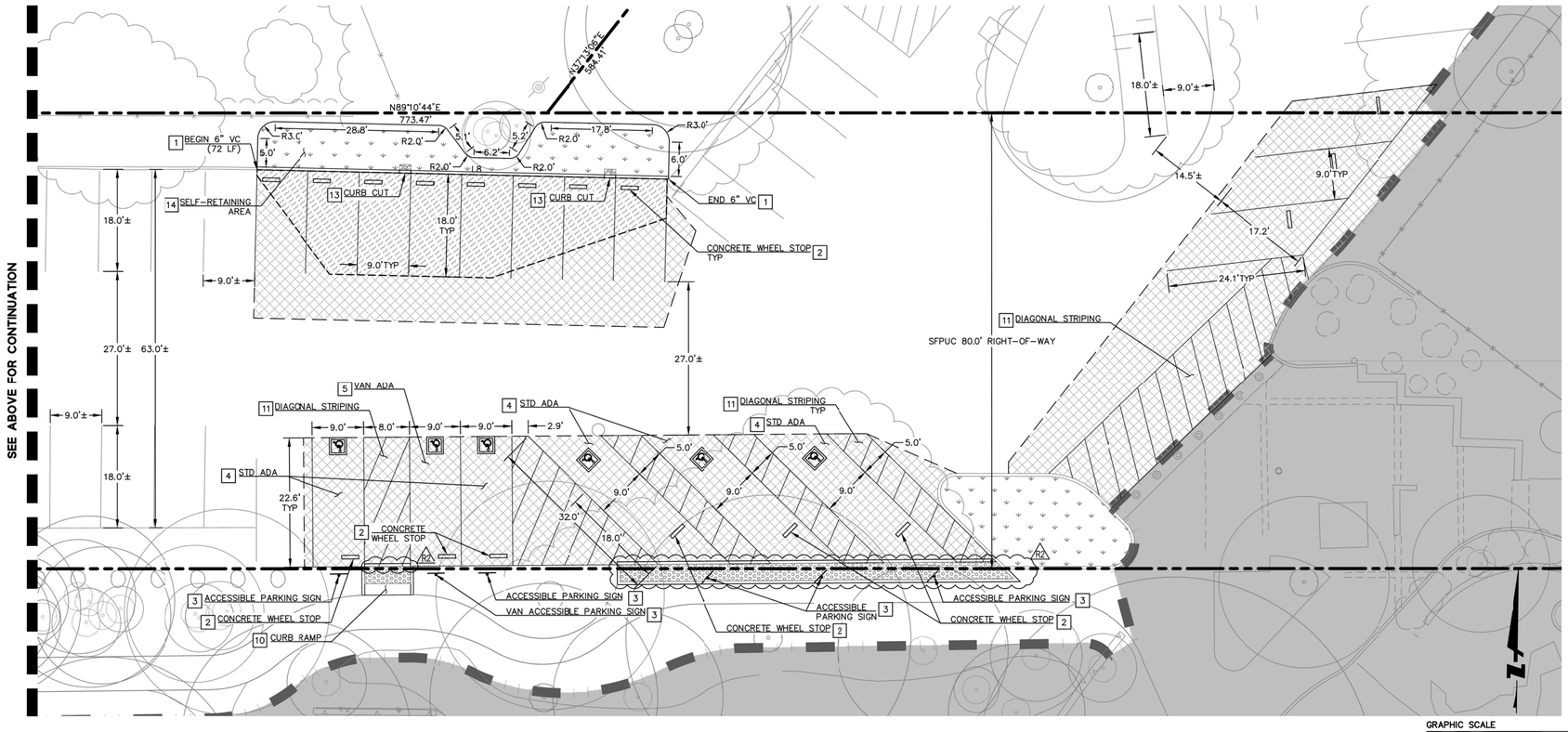
| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C4.2
(REV.)


DRAWING NAME: \\Bkf-rc\vol4\2021\210178_ReImagine_Flood_Park_Design\ENG\CD\SHEETS\C4.0 HZCT.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mmj




**STRIPING LEGEND:**

TYPE 1 ARROW PAVEMENT MARKING PER CALTRANS STANDARD PLAN A24A

SHARED ROADWAY BICYCLE MARKINGPER CALTRANS STANDARD PLAN A24C

**NOTES:**

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. SEE LANDSCAPE PLANS FOR PROPOSED PLANTING AND TREE LOCATIONS.
5. WORK IN CANOPY AND STRUCTURAL ROOT ZONES WILL REQUIRE HAND WORK AND/OR AIR SPADING. REFER TO TREE PROTECTION DRAWINGS AND SPECIFICATIONS IN LANDSCAPE PLANS FOR MORE DETAILS AND INFORMATION.
6. HISTORIC ADOBE WALL IS TO BE PROTECTED IN PLACE AND UNDISTURBED. WORK AROUND HISTORIC ADOBE WALL WILL REQUIRE HAND WORK. NOTIFY CIVIL ENGINEER AND/OR LANDSCAPE ARCHITECT AS REQUIRED.
7. REFER TO LANDSCAPE PLANS FOR PARK IMPROVEMENTS AND DETAILS.

**LEGEND:**

- SAWCUT LINE
- GRIND & OVERLAY LINE
- LIMIT OF WORK
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY
- AC PERVIOUS PAVEMENT PER DETAIL 4 ON SHEET C10.3
- DETECTABLE WARNING SURFACE PER DETAIL 6 ON SHEET C10.0
- AC GRIND & OVERLAY PER DETAIL 1 ON SHEET C10.1
- AC PAVEMENT, MATCH EXISTING IN KIND (MINIMUM 2.5"AC/7.5"AB)
- LANDSCAPE, SLP R2
- GRAVEL

**KEYNOTES:**

| | |
|---|---|
| 1 | 6" VERTICAL CURB PER DETAIL 1 ON SHEET C10.0 |
| 2 | CONCRETE WHEEL STOP PER DETAIL 5 ON SHEET C10.1 |
| 3 | ACCESSIBLE PARKING SIGN PER DETAIL 6 ON SHEET C10.1 |
| 4 | STANDARD ACCESSIBLE STALL PER DETAIL 3 ON SHEET C10.1 |
| 5 | VAN ACCESSIBLE STALL PER DETAIL 4 ON SHEET C10.1 |
| 6 | TRANSITION 4" MC TO 6" VC PER DETAIL 4 ON SHEET C10.0 |
| 7 | TRANSITION FLUSH CURB TO 6" VC PER DETAIL 5 ON SHEET C10.0 |
| 8 | 4" MOUNTABLE CURB PER DETAIL 2 ON SHEET C10.0 |
| 9 | FLUSH CURB PER DETAIL 3 ON SHEET C10.0 |
| 10 | CASE F CURB RAMP PER DETAIL 1 ON SHEET C10.5 |
| 11 | NO PARKING DIAGONAL STRIPING, 4" PAINTED WHITE STRIPES AT 36" ON CENTER |
| 12 | 6" VERTICAL CURB (CALTRANS TYPE B1) PER DETAIL 3 ON SHEET C10.5 |
| 13 | CURB CUT PER DETAIL 7 ON SHEET C10.0 |
| 14 | SELF-RETAINING AREA PER DETAIL 3 ON SHEET C10.0 |


cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER · JAMES R. DALOSTAN · No. 72339 · CIVIL · STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BIC ADDENDUM 1 | 07.03.23 |
| 2 | BIC ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BIC ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER · IAN MADER STILLMAN · C 47882 · EXPIRES · CIVIL · STATE OF CALIFORNIA

SHEET TITLE

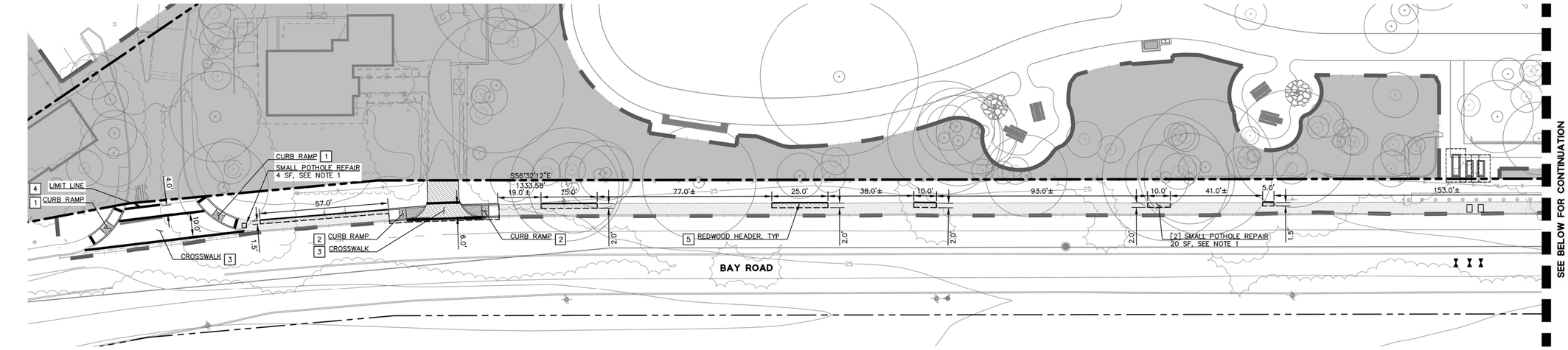
## PARKING LOT IMPROVEMENTS

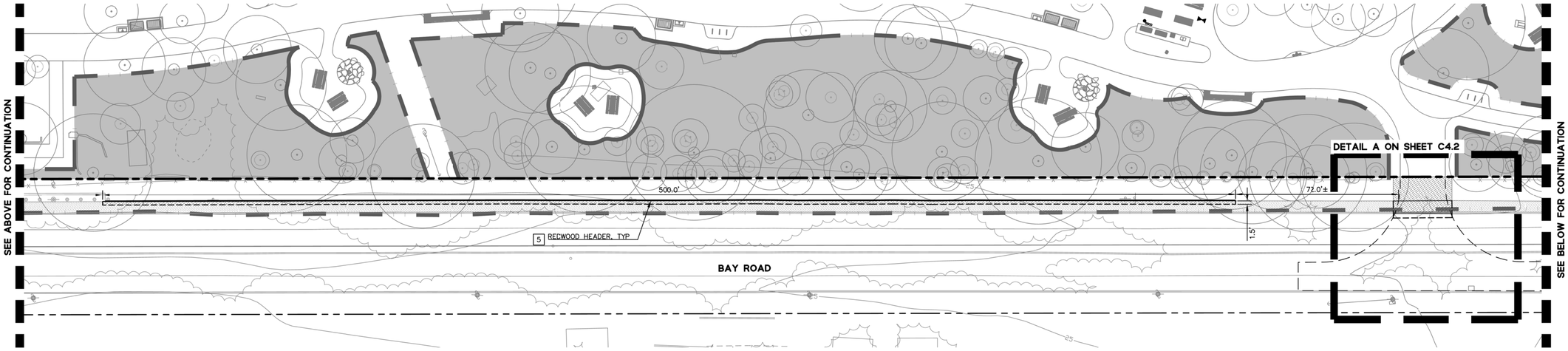
| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

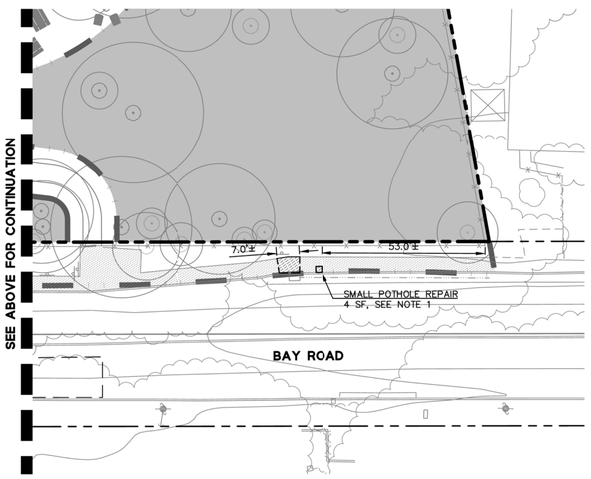
SHEET NUMBER

# C4.3 (REV.)

DRAWING NAME: \\bkf-cs\vol4\2021\210178_Reimagine_Flood_Park_Design\ENGVCD\SHEETS\C4.0 HZCT.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mejj




**NOTES:**

1. REPAIR EXISTING POTHOLE WITH HOT MIX ASPHALT. CUT EDGES AND SQUARE UP EXISTING ASPHALT, THEN FILL POTHOLE AS NEEDED. MINIMUM DIMENSION FOR POTHOLE REPAIR IS 2 FEET BY 2 FEET.

**LEGEND:**

- SAWCUT LINE
- LIMIT OF WORK
- REDWOOD HEADER PER DETAIL 2 ON SHEET C10.1
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY
- DETECTABLE WARNING SURFACE PER DETAIL 6 ON SHEET C10.0
- AC PAVEMENT, MATCH EXISTING IN KIND (MINIMUM 2.5"AC/7.5"AB)
- SLURRY SEAL AC (R2)

**KEYNOTES:**

1. CASE C CURB RAMP PER DETAIL 1 ON SHEET C1C.6
2. CASE CM CURB RAMP PER DETAIL 4 ON SHEET C10.6
3. 12" WIDE STRIPE BASIC CROSSWALK PER DETAIL 2 ON SHEET C10.6
4. STOP LIMIT LINE PER DETAIL 3 ON SHEET C10.6
5. REDWOOD HEADER PER DETAIL 2 ON SHEET C10.1

GRAPHIC SCALE
20 0 20 40

DRAWING NAME: \\Bkf-rcvol4\2021\210178_Reimagine_Flood_Park_Design\ENG\C2\SHEETS\C4.0 HZCT.dwg
PLOT DATE: 01-19-24
PLOTTED BY: meyj

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES DALLOCK JR No. 72339 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXP.09/30/24 CIVIL STATE OF CALIFORNIA

SHEET TITLE

## BAY ROAD IMPROVEMENTS

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMEER

# C4.5
(REV.)

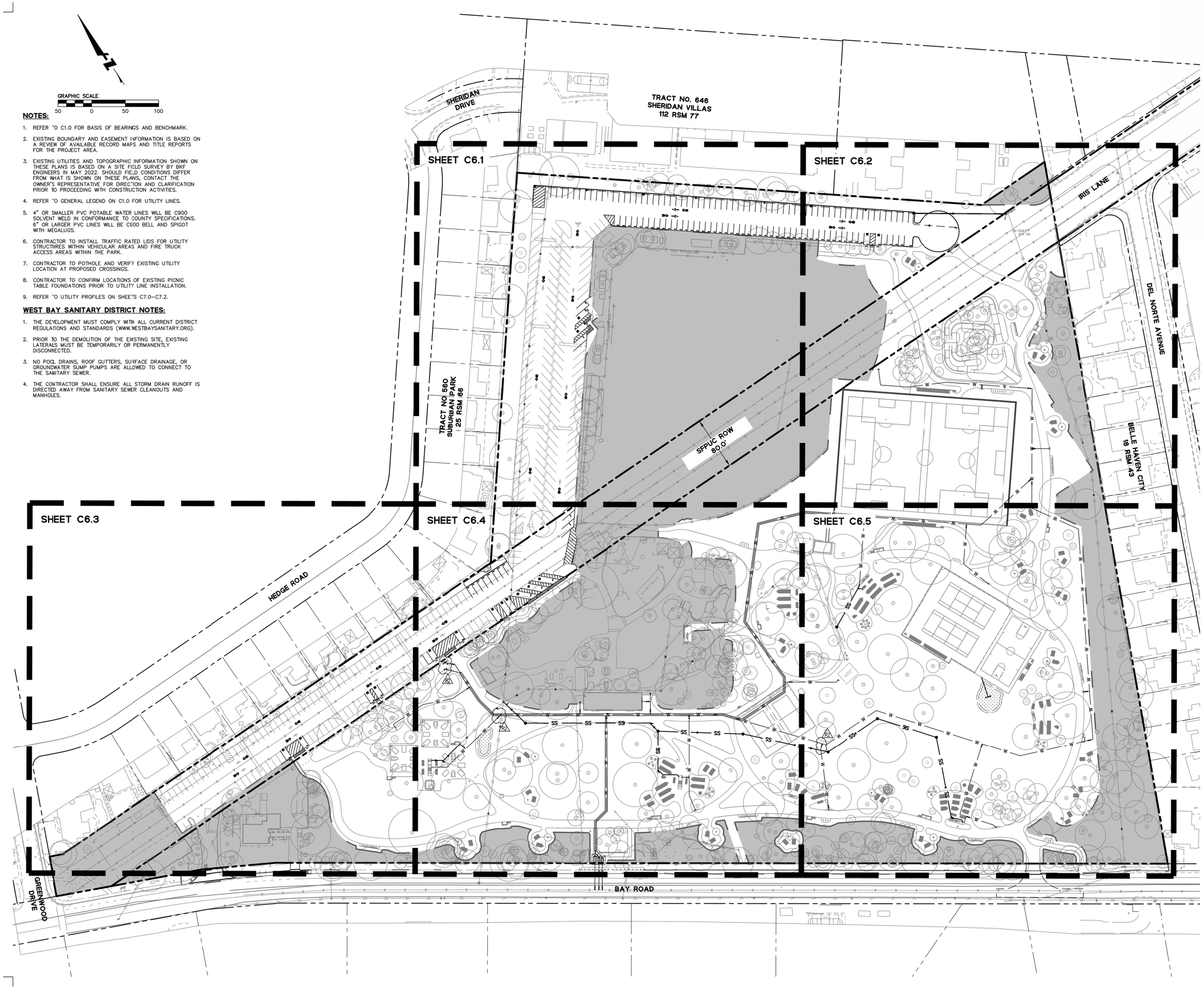
GRAPHIC SCALE
50 0 50 100

## NOTES:

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. REFER TO GENERAL LEGEND ON C1.0 FOR UTILITY LINES.
5. 4" OR SMALLER PVC POTABLE WATER LINES WILL BE C900 SOLVENT WELD IN CONFORMANCE TO COUNTY SPECIFICATIONS. 6" OR LARGER PVC LINES WILL BE C900 BELL AND SPIGOT WITH MEGALUGS.
6. CONTRACTOR TO INSTALL TRAFFIC RATED LIDS FOR UTILITY STRUCTURES WITHIN VEHICULAR AREAS AND FIRE TRUCK ACCESS AREAS WITHIN THE PARK.
7. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITY LOCATION AT PROPOSED CROSSINGS.
8. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PICNIC TABLE FOUNDATIONS PRIOR TO UTILITY LINE INSTALLATION.
9. REFER TO UTILITY PROFILES ON SHEETS C7.0–C7.2.

## WEST BAY SANITARY DISTRICT NOTES:

1. THE DEVELOPMENT MUST COMPLY WITH ALL CURRENT DISTRICT REGULATIONS AND STANDARDS (WWW.WESTBAYSANITARY.ORG).
2. PRIOR TO THE DEMOLITION OF THE EXISTING SITE, EXISTING LATERALS MUST BE TEMPORARILY OR PERMANENTLY DISCONNECTED.
3. NO POOL DRAINS, ROOF GUTTERS, SURFACE DRAINAGE, OR GROUNDWATER SUMP PUMPS ARE ALLOWED TO CONNECT TO THE SANITARY SEWER.
4. THE CONTRACTOR SHALL ENSURE ALL STORM DRAIN RUNOFF IS DIRECTED AWAY FROM SANITARY SEWER CLEANOUTS AND MANHOLES.




DRAWING NAME: \\BKF-RC\Vol4\2021\210178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C6.0 PRUTIL.dwg
PLOT DATE: 01-19-24
PLOTTED BY: meyj


cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES W. DALLOZ
No. 72339
CIVIL
STATE OF CALIFORNIA

PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.05.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

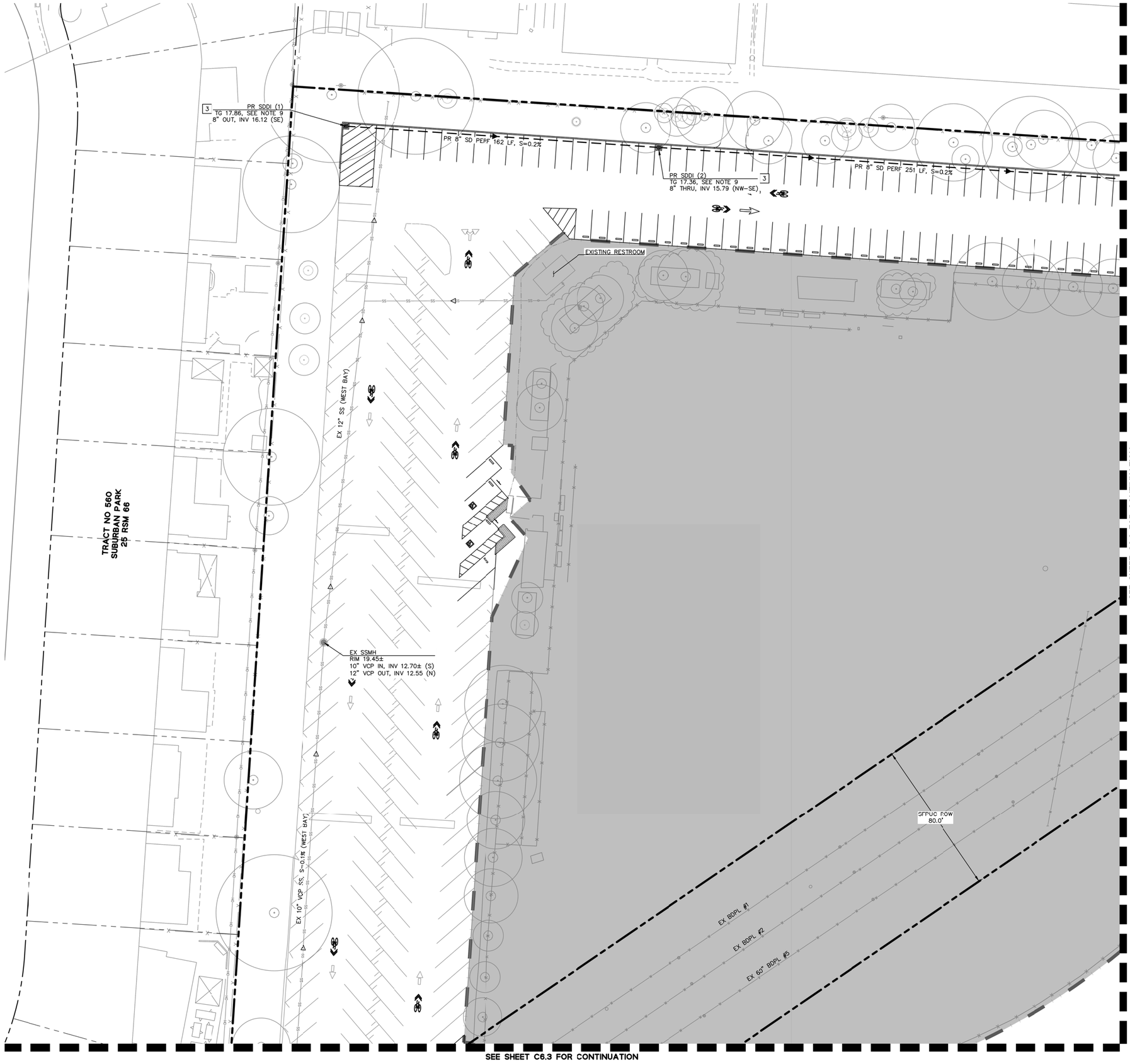
SHEET TITLE

# UTILITY PLAN

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

C6.0
(REV.)




GRAPHIC SCALE
20 0 20 40

## NOTES:

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. REFER TO GENERAL LEGEND ON C1.0 FOR UTILITY LINES.
5. 4" OR SMALLER PVC POTABLE WATER LINES WILL BE C900 SOLVENT WELD IN CONFORMANCE TO COUNTY SPECIFICATIONS. 6" OR LARGER PVC LINES WILL BE C900 BELL AND SPIGOT WITH MEGALUGS.
6. CONTRACTOR TO INSTALL TRAFFIC RATED LIDS FOR UTILITY STRUCTURES WITHIN VEHICULAR AREAS AND FIRE TRUCK ACCESS AREAS WITHIN THE PARK.
7. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITY LOCATION AT PROPOSED CROSSINGS.
8. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PICNIC TABLE FOUNDATIONS PRIOR TO UTILITY LINE INSTALLATION.
9. REFER TO UTILITY PROFILES ON SHEETS C7.0–C7.2.

## WEST BAY SANITARY DISTRICT NOTES:

1. THE DEVELOPMENT MUST COMPLY WITH ALL CURRENT DISTRICT REGULATIONS AND STANDARDS (WWW.WESTBAYSANITARY.ORG).
2. PRIOR TO THE DEMOLITION OF THE EXISTING SITE, EXISTING LATERALS MUST BE TEMPORARILY OR PERMANENTLY DISCONNECTED.
3. NO POOL DRAINS, ROOF GUTTERS, SURFACE DRAINAGE, OR GROUNDWATER SUMP PUMPS ARE ALLOWED TO CONNECT TO THE SANITARY SEWER.
4. THE CONTRACTOR SHALL ENSURE ALL STORM DRAIN RUNOFF IS DIRECTED AWAY FROM SANITARY SEWER CLEANOUTS AND MANHOLES.

## LEGEND:

- LIMIT OF WORK
- BIORETENTION PLANTER PER DETAIL 6 ON SHEET C10.2
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY

| KEYNOTE | STRUCTURE | STRUCTURE TYPE |
|---|---|---|
| 1 | | SANITARY SEWER MANHOLE PER DETAIL 4 ON SHEET C10.2 |
| 2 | | SANITARY SEWER CLEANOUT PER DETAIL 3 ON SHEET C10.2 |
| 3 | | STORM DRAIN DROP INLET PER DETAIL 2 ON SHEET C10.2 |
| 4 | | STORM DRAIN CLEANOUT PER DETAIL 5 ON SHEET C10.2 |
| 5 | | FIRE HYDRANT PER DETAIL 3 ON SHEET C10.3 |
| 6 | | WATER VALVE & CORP STOP PER DETAIL 2 & 4 ON SHEET C10.4 (R2) |
| 7 | | WATER METER PER DETAIL 2 ON SHEET C10.4 |
| 8 | | 4" IRR BFP PER DETAIL 5 ON SHEET C10.4 (R2) |
| 9 | | 4" FW BFP PER DETAIL 5 ON SHEET C10.4 |
| 10 | | 8" FW BFP PER DETAIL 7 ON SHEET C10.3 |
| 11 | W | WATER TRENCH PER DETAILS 1, 6 ON SHEET C10.3 |
| 12 | | FDC PER DETAIL 5 ON SHEET C10.3 |
| 13 | | INFILTRATION TRENCH, SLP |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES W. DALLOZ IV
No. 72339
Civil
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.05.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.28.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/24
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

## UTILITY PLAN

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C6.1
(REV.)

DRAWING NAME: \\BKF-RC\VOL4\2021\210178_Reimagine_Flood_Park_Design\ENG\DD\SHEETS\C6.0 PRUTIL.dwg
PLOT DATE: 01-19-24
PLOTTED BY: meyj




GRAPHIC SCALE
20 0 20 40

## NOTES:

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. REFER TO GENERAL LEGEND ON C1.0 FOR UTILITY LINES.
5. 4" OR SMALLER PVC POTABLE WATER LINES WILL BE C900 SOLVENT WELD IN CONFORMANCE TO COUNTY SPECIFICATIONS. 6" OR LARGER PVC LINES WILL BE C900 BELL AND SPIGOT WITH MEGALUGS.
6. CONTRACTOR TO INSTALL TRAFFIC RATED LIDS FOR UTILITY STRUCTURES WITHIN VEHICULAR AREAS AND FIRE TRUCK ACCESS AREAS WITHIN THE PARK.
7. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITY LOCATION AT PROPOSED CROSSINGS.
8. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PICNIC TABLE FOUNDATIONS PRIOR TO UTILITY LINE INSTALLATION.
9. REFER TO UTILITY PROFILES ON SHEETS C7.0~C7.2.

## WEST BAY SANITARY DISTRICT NOTES:

1. THE DEVELOPMENT MUST COMPLY WITH ALL CURRENT DISTRICT REGULATIONS AND STANDARDS (WWW.WESTBAYSANITARY.ORG).
2. PRIOR TO THE DEMOLITION OF THE EXISTING SITE, EXISTING LATERALS MUST BE TEMPORARILY OR PERMANENTLY DISCONNECTED.
3. NO POOL DRAINS, ROOF GUTTERS, SURFACE DRAINAGE, OR GROUNDWATER SUMP PUMPS ARE ALLOWED TO CONNECT TO THE SANITARY SEWER.
4. THE CONTRACTOR SHALL ENSURE ALL STORM DRAIN RUNOFF IS DIRECTED AWAY FROM SANITARY SEWER CLEANOUTS AND MANHOLES.

## LEGEND:

- LIMIT OF WORK
- BIORETENTION PLANTER PER DETAIL 6 ON SHEET C10.2
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY

| KEYNOTE | STRUCTURE | STRUCTURE TYPE |
|---|---|---|
| 1 | | SANITARY SEWER MANHOLE PER DETAIL 4 ON SHEET C10.2 |
| 2 | | SANITARY SEWER CLEANOUT PER DETAIL 3 ON SHEET C10.2 |
| 3 | | STORM DRAIN DROP INLET PER DETAIL 2 ON SHEET C10.2 |
| 4 | | STORM DRAN CLEANOUT PER DETAIL 5 ON SHEET C10.2 |
| 5 | | FIRE HYDRANT PER DETAIL 3 ON SHEET C10.3 |
| 6 | | WATER VALVE/CORP STOP PER DETAIL 2 & 4 ON SHEET C10.4 R2 |
| 7 | | WATER METER PER DETAIL 2 ON SHEET C10.4 |
| 8 | | 4" IRR BFP PER DETAIL 5 ON SHEET C10.4 R2 |
| 9 | | 4" PW BFP PER DETAIL 5 ON SHEET C10.4 |
| 10 | | 8" FW BFP PER DETAIL 7 ON SHEET C10.3 |
| 11 | W | WATER TRENCH PER DETAILS 1, 6 ON SHEET C10.3 |
| 12 | | FDC PER DETAIL 5 ON SHEET C10.3 |
| 13 | | INFILTRATION TRENCH, SLP |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES B. DALLOSTA
No. 72339
CIVIL
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BIC ADDENDUM 1 | 07.63.23 |
| 2 | BIC ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BIC ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

## UTILITY PLAN

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C6.2
(REV.)

DRAWING NAME: \\BKF-RCVOLA\2021\20178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C6.0 PRUTIL.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mayj




GRAPHIC SCALE
20 0 20 40

**NOTES:**

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. REFER TO GENERAL LEGEND ON C1.0 FOR UTILITY LINES.
5. 4" OR SMALLER PVC POTABLE WATER LINES WILL BE C900 SOLVENT WELD IN CONFORMANCE TO COUNTY SPECIFICATIONS. 6" OR LARGER PVC LINES WILL BE C900 BELL AND SPIGOT WITH MEGALUGS.
6. CONTRACTOR TO INSTALL TRAFFIC RATED LIDS FOR UTILITY STRUCTURES WITHIN VEHICULAR AREAS AND FIRE TRUCK ACCESS AREAS WITHIN THE PARK.
7. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITY LOCATION AT PROPOSED CROSSINGS.
8. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PICNIC TABLE FOUNDATIONS PRIOR TO UTILITY LINE INSTALLATION.
9. REFER TO UTILITY PROFILES ON SHEETS C7.0–C7.2.

**WEST BAY SANITARY DISTRICT NOTES:**

1. THE DEVELOPMENT MUST COMPLY WITH ALL CURRENT DISTRICT REGULATIONS AND STANDARDS (WWW.WESTBAYSANITARY.ORG).
2. PRIOR TO THE DEMOLITION OF THE EXISTING SITE, EXISTING LATERALS MUST BE TEMPORARILY OR PERMANENTLY DISCONNECTED.
3. NO POOL DRAINS, ROOF GUTTERS, SURFACE DRAINAGE, OR GROUNDWATER SUMP PUMPS ARE ALLOWED TO CONNECT TO THE SANITARY SEWER.
4. THE CONTRACTOR SHALL ENSURE ALL STORM DRAIN RUNOFF IS DIRECTED AWAY FROM SANITARY SEWER CLEANOUTS AND MANHOLES.

**LEGEND:**

- LIMIT OF WORK
- BIORETENTION PLANTER PER DETAIL 6 ON SHEET C10.2
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY

| KEYNOTE | STRUCTURE | STRUCTURE TYPE |
|---|---|---|
| 1 | | SANITARY SEWER MANHOLE PER DETAIL 4 ON SHEET C10.2 |
| 2 | | SANITARY SEWER CLEANOUT PER DETAIL 3 ON SHEET C10.2 |
| 3 | | STORM DRAIN DROP INLET PER DETAIL 2 ON SHEET C10.2 |
| 4 | | STORM DRAIN CLEANOUT PER DETAIL 5 ON SHEET C10.2 |
| 5 | | FIRE HYDRANT PER DETAIL 3 ON SHEET C10.3 |
| 6 | | WATER VALVE/CORP STOP PER DETAIL 2 & 4 ON SHEET C10.4 R2 |
| 7 | | WATER METER PER DETAIL 2 ON SHEET C10.4 |
| 8 | | 4" IRR BFP PER DETAIL 5 ON SHEET C10.4 R2 |
| 9 | | 4" PW BFP PER DETAIL 5 ON SHEET C10.4 |
| 10 | | 8" FW BFP PER DETAIL 7 ON SHEET C10.3 |
| 11 | W | WATER TRENCH PER DETAILS 1, 6 ON SHEET C10.3 |
| 12 | | FDC PER DETAIL 5 ON SHEET C10.3 |
| 13 | | INFILTRATION TRENCH, SLP |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES W. DALLOLIO JR. No. 72339 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.06.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER ADAM MAUDER STILLMAN No. C 47882 CIVIL STATE OF CALIFORNIA 03/17/25

SHEET TITLE

## UTILITY PLAN

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C6.3
(REV.)

DRAWING NAME: \\bkf-rc\vol4\2021\210178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C6.0 PRUTIL.dwg
PLOT DATE: 01-19-24
PLOTTED BY: meyl

SEE SHEET C6.1 FOR CONTINUATION

SEE SHEET C6.3 FOR CONTINUATION

SEE SHEET C6.5 FOR CONTINUATION

EX SSMH
RIM 21.26±
10" VCP IN, INV 13.11± (E)
10" VCP IN, INV 12.90± (S)
10" VCP OUT, INV 12.90± (N)

EX BDPL #1
EX BDPL #2
EX 60" BDPL #5
SFPUC ROW
80.0'
EX 10" VCP SS, S=0.3% (WEST BAY)
EX 6" VCP SS
EX 4" SS
EX 4" W
EX 10" VCP SS, S=0.2% (WEST BAY)

PR WV 6
TEE & CAP FOR FUTURE CONNECTION
EX STORAGE BUILDING
5 FR FIRE HYDRANT
12 PR FDC
11 WATER TRENCH, 26 LF
8" FW
8" FW (FDC LINE)
6 PR WV
PR 2" PW 137 LF
11 WATER TRENCH 55 LF
4" PW,
8" FW
8" FW (FDC)
CONNECT TO EX 6" SS
INV THRU 19.88± (W-E)
PR WATER FOUNTAIN
6 PR WV
PR 6" SS 38 LF, S=2.0%
PR SINK
PR SSCO
RIM 23.90
6" OUT, INV 20.65 (E)
PR 6" SS 18 LF, S=2.0%
SEE NOTE 8
PR 4" PVC 23 LF
SEE NOTE 8
PICNIC APPURTENANCES, SAP
PR 2" PW 113 LF
PR 4" PVC FW

EX STRUCTURE TO REMAIN, CONTRACTOR TO DETERMINE EXISTING SERVICE AND RECONNECT TO PROPOSED WATER SERVICE
EX SSMH
RIM 23.59±
4" IN, INV 18.89± (SE)
4" OUT, INV 18.74± (W)
CAP FOR FUTURE FDC CONNECTION
11 WATER TRENCH 129 LF
4" PW
8" FW
8" FW (FDC)
PR SSCO (2)
RIM 23.48, SEE NOTE 9
8" THRU, INV 15.86 (S-N)
2
PR 8" PVC C900 DR 18 SS
5 LF, S=0.5%
UTIL CROSSING
SEE NOTE 7
PR 8" PVC DR 35 SS
46 LF, S=0.5%
PR SSMH (3)
RIM 24.00, SEE NOTE 9
8" THRU, INV 16.06 (SE-N)
1
CONNECT TO EX SSMH (1)
RIM 23.48±, SEE NOTE 9
4" IN, INV 19.78± 4" (E)
INV 16.98± CAPPED (E)
INV 16.98± CAPPED (W)
6" IN, INV 14.23± (W)
8" IN, INV 15.83 (S)
10" IN, INV 13.68± (SW)
10" OUT, INV 13.63± (NE)
BIORETENTION PLANTER
11 WATER TRENCH 39 LF
4" PW
8" FW
6 PR WV
10.0' MIN CLEARANCE

EX SSMH
RIM 23.52±
6" THRU, INV 18.92± (E-NW)
UNK IN, INV UNK (NE)
CAP FOR FUTURE CONNECTION
EX ADOBE ADMINISTRATION BUILDING TO REMAIN. CONTRACTOR TO DETERMINE EXISTING SERVICE AND RECONNECT TO PROPOSED WATER AND SEWER SERVICE UTILITY CONNECTIONS
1 TOILET
1 SINK
PR 1-1/2" PW
PR WV 6
PR 2" PW
32 LF
PR WV 6
UTIL CROSSING
SEE NOTE 7
PR 8" PVC DR 35 SS
186 LF, S=0.5%
WATER TRENCH, 66 LF
4" PW
6" IRR
PR 8" PVC DR 35 SS
17 LF, S=0.5%
PR SSMH (4)
RIM 23.10, SEE NOTE 9
8" IN, INV 18.14 (SW)
8" IN, INV 17.08 (SE)
8" OUT, INV 17.08 (N)
1
PR SSCO (10)
RIM 23.00, SEE NOTE 9
8" OUT, INV 19.33 (NE)
2
PR 8" PVC DR 35 SS
60 LF, S=2.0%
6 PR WV
PR 1-1/2" PW
PR SINK
WATER TRENCH, 144 LF
4" PW
6" IRR
8" FW
PR 2" PW 25 LF
PR WATER FOUNTAIN
WATER TRENCH, 22 LF
4" PW
6" IRR
8" FW
11 WATER TRENCH, 44 LF
4" PW
6" IRR
8" FW
EX HISTORIC ADOBE WALLS
PROTECT AND SHORE WALLS IN PLACE AS REQUIRED BY COUNTY APPOINTED CONSTRUCTION MANAGER. TO BE COORDINATED WITH GEOTECHNICAL ENGINEER.
10 8" FW BFP
4" PW BFP 9
4" IRR BFP 8
(2) 3" WM 7
8" FW
4" PW
4" IRR
PR WV 6
EX 8" ACP PW
CONNECT TO EX 8" ACP PW MAIN
COORDINATE WITH CALWATER FOR CONNECTION

WATER TRENCH, 73 LF 11
4" PW
6" IRR
WATER TRENCH, 147 LF 11
4" PW
6" IRR
EX 6" VCP SS
UTIL CROSSING
SEE NOTE 7
WATER TRENCH, 102 LF 11
4" PW
6" IRR
UTIL CROSSING
SEE NOTE 7
6 PR WV
PR 2" PW
82 LF
11 WATER TRENCH, 22 LF
4" PW
6" IRR
11 WATER TRENCH, 77 LF
4" PW
6" IRR
WATER TRENCH, 108 LF 11
4" PW
6" IRR
11 WATER TRENCH, 30 LF
4" PW
6" IRR
6 PR WV
PR SSCO
RIM 23.00
8" OUT, INV 17.00 (NW)
2
6 PR 4" PW WV
PR 8" PVC DR 35 SS 127 LF, S=0.5%
1
PR SSMH (5)
RIM 23.00, SEE NOTE 9
8" THRU, INV 17.71 (SE-NW)
PR 8" PVC DR 35 SS 130 LF, S=0.5%
PR 4" PVC PW 131 LF
PR 2" PW 121 LF

GRAPHIC SCALE
20 0 20 40

## NOTES:

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. REFER TO GENERAL LEGEND ON C1.0 FOR UTILITY LINES.
5. 4" OR SMALLER PVC POTABLE WATER LINES WILL BE C900 SOLVENT WELD IN CONFORMANCE TO COUNTY SPECIFICATIONS. 6" OR LARGER PVC LINES WILL BE C900 BELL AND SPIGOT WITH MEGALUGS.
6. CONTRACTOR TO INSTALL TRAFFIC RATED LIDS FOR UTILITY STRUCTURES WITHIN VEHICULAR AREAS AND FIRE TRUCK ACCESS AREAS WITHIN THE PARK.
7. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITY LOCATION AT PROPOSED CROSSINGS.
8. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PICNIC TABLE FOUNDATIONS PRIOR TO UTILITY LINE INSTALLATION.
9. REFER TO UTILITY PROFILES ON SHEETS C7.0–C7.2.

## WEST BAY SANITARY DISTRICT NOTES:

1. THE DEVELOPMENT MUST COMPLY WITH ALL CURRENT DISTRICT REGULATIONS AND STANDARDS (WWW.WESTBAYSANITARY.ORG).
2. PRIOR TO THE DEMOLITION OF THE EXISTING SITE, EXISTING LATERALS MUST BE TEMPORARILY OR PERMANENTLY DISCONNECTED.
3. NO POOL DRAINS, ROOF GUTTERS, SURFACE DRAINAGE, OR GROUNDWATER SUMP PUMPS ARE ALLOWED TO CONNECT TO THE SANITARY SEWER.
4. THE CONTRACTOR SHALL ENSURE ALL STORM DRAIN RUNOFF IS DIRECTED AWAY FROM SANITARY SEWER CLEANOUTS AND MANHOLES.

## LEGEND:

- LIMIT OF WORK
- BIORETENTION PLANTER PER DETAIL 6 ON SHEET C10.2
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY

| KEYNOTE | STRUCTURE | STRUCTURE TYPE |
|---|---|---|
| 1 | ◉ | SANITARY SEWER MANHOLE PER DETAIL 4 ON SHEET C10.2 |
| 2 | ●cco | SANITARY SEWER CLEANOUT PER DETAIL 3 ON SHEET C10.2 |
| 3 | ▣ | STORM DRAIN DROP INLET PER DETAIL 2 ON SHEET C10.2 |
| 4 | ●cco | STORM DRAIN CLEANOUT PER DETAIL 5 ON SHEET C10.2 |
| 5 | +●+ | FIRE HYDRANT PER DETAIL 3 ON SHEET C10.3 |
| 6 | ⋈ | WATER VALVE / CORP STOP PER DETAIL 2 & 4 ON SHEET C10.4 R2 |
| 7 | □ | WATER METER PER DETAIL 2 ON SHEET C10.4 |
| 8 | ▭ | (4") IRR BFP PER DETAIL 5 ON SHEET C10.4 R2 |
| 9 | ▭ | 4" PW BFP PER DETAIL 5 ON SHEET C10.4 |
| 10 | ▭ | 8" FW BFP PER DETAIL 7 ON SHEET C10.3 |
| 11 | W | WATER TRENCH PER DETAILS 1, 6 ON SHEET C10.3 |
| 12 | ○ | FDC PER DETAIL 5 ON SHEET C10.3 |
| 13 | ═══ | INFILTRATION TRENCH, SLP |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES W. DALLOTTO No. 72339 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.06.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 EXPIRES 12-31-24 CIVIL STATE OF CALIFORNIA

SHEET TITLE

## UTILITY PLAN

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

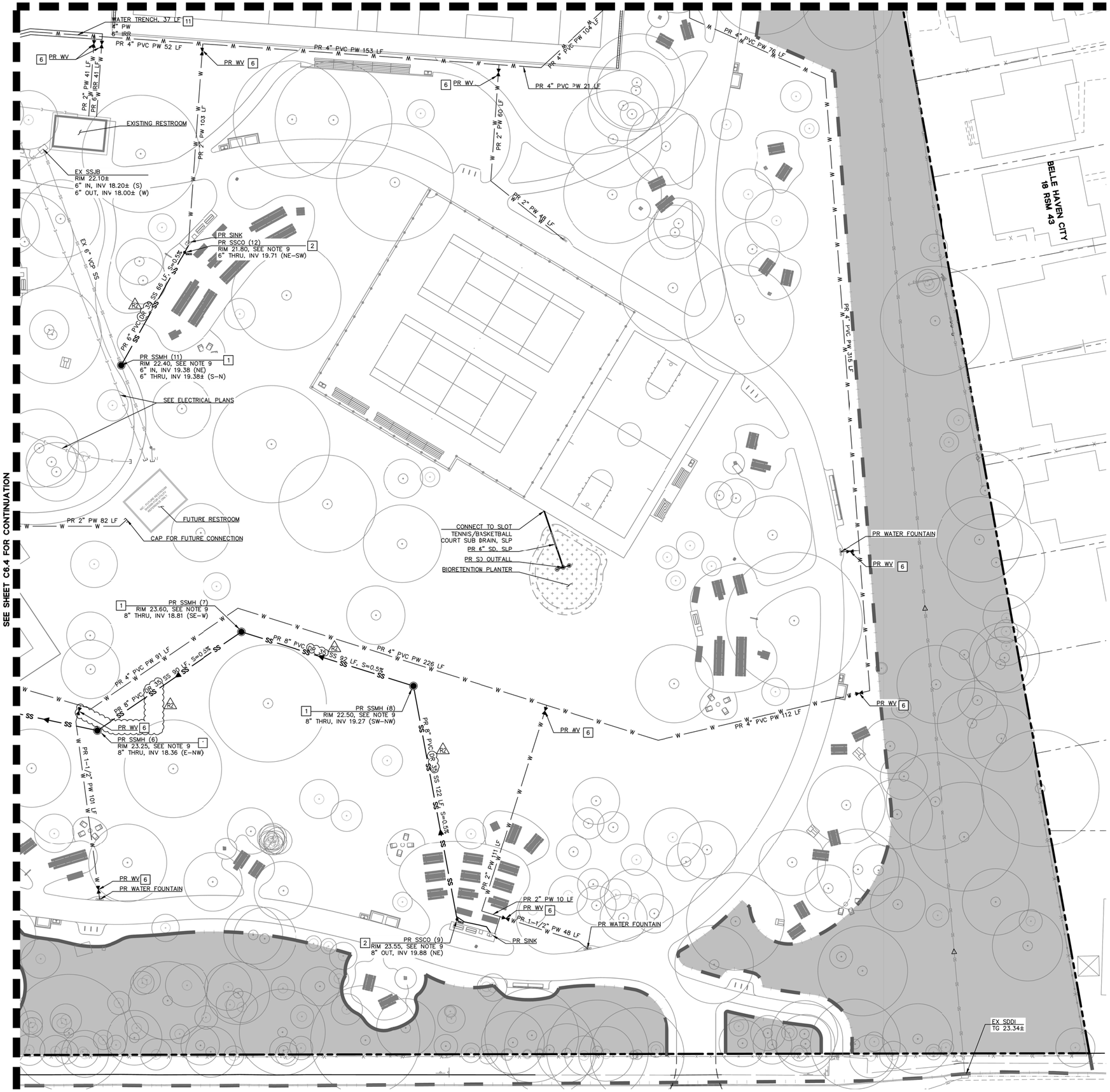
SHEET NUMBER

# C6.4
(REV.)

DRAWING NAME: \\Bkf-rc\vol4\2021\210178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C6.0 PRUTIL.dwg
PLOT DATE: 01-19-24
PLOTTED BY: mwj

SEE SHEET C6.2 FOR CONTINUATION

SEE SHEET C6.4 FOR CONTINUATION




GRAPHIC SCALE
20 0 20 40

## NOTES:

1. REFER TO C1.0 FOR BASIS OF BEARINGS AND BENCHMARK.
2. EXISTING BOUNDARY AND EASEMENT INFORMATION IS BASED ON A REVIEW OF AVAILABLE RECORD MAPS AND TITLE REPORTS FOR THE PROJECT AREA.
3. EXISTING UTILITIES AND TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A SITE FIELD SURVEY BY BKF ENGINEERS IN MAY 2022. SHOULD FIELD CONDITIONS DIFFER FROM WHAT IS SHOWN ON THESE PLANS, CONTACT THE OWNER'S REPRESENTATIVE FOR DIRECTION AND CLARIFICATION PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.
4. REFER TO GENERAL LEGEND ON C1.0 FOR UTILITY LINES.
5. 4" OR SMALLER PVC POTABLE WATER LINES WILL BE C900 SOLVENT WELD IN CONFORMANCE TO COUNTY SPECIFICATIONS. 6" OR LARGER PVC LINES WILL BE C900 BELL AND SPIGOT WITH MEGALUGS.
6. CONTRACTOR TO INSTALL TRAFFIC RATED LIDS FOR UTILITY STRUCTURES WITHIN VEHICULAR AREAS AND FIRE TRUCK ACCESS AREAS WITHIN THE PARK.
7. CONTRACTOR TO POTHOLE AND VERIFY EXISTING UTILITY LOCATION AT PROPOSED CROSSINGS.
8. CONTRACTOR TO CONFIRM LOCATIONS OF EXISTING PICNIC TABLE FOUNDATIONS PRIOR TO UTILITY LINE INSTALLATION.
9. REFER TO UTILITY PROFILES ON SHEETS C7.0–C7.2.

## WEST BAY SANITARY DISTRICT NOTES:

1. THE DEVELOPMENT MUST COMPLY WITH ALL CURRENT DISTRICT REGULATIONS AND STANDARDS (WWW.WESTBAYSANITARY.ORG).
2. PRIOR TO THE DEMOLITION OF THE EXISTING SITE, EXISTING LATERALS MUST BE TEMPORARILY OR PERMANENTLY DISCONNECTED.
3. NO POOL DRAINS, ROOF GUTTERS, SURFACE DRAINAGE, OR GROUNDWATER SUMP PUMPS ARE ALLOWED TO CONNECT TO THE SANITARY SEWER.
4. THE CONTRACTOR SHALL ENSURE ALL STORM DRAIN RUNOFF IS DIRECTED AWAY FROM SANITARY SEWER CLEANOUTS AND MANHOLES.

## LEGEND:

- LIMIT OF WORK
- BIORETENTION PLANTER PER DETAIL 6 ON SHEET C10.2
- FUTURE IMPROVEMENTS OUTSIDE OF PHASE 1 SHOWN HEREON FOR REFERENCE ONLY

| KEYNOTE | STRUCTURE | STRUCTURE TYPE |
|---|---|---|
| 1 | | SANITARY SEWER MANHOLE PER DETAIL 4 ON SHEET C10.2 |
| 2 | | SANITARY SEWER CLEANOUT PER DETAIL 3 ON SHEET C10.2 |
| 3 | | STORM DRAIN DROP INLET PER DETAIL 2 ON SHEET C10.2 |
| 4 | | STORM DRAIN CLEANOUT PER DETAIL 5 ON SHEET C10.2 |
| 5 | | FIRE HYDRANT PER DETAIL 3 ON SHEET C10.3 |
| 6 | | WATER VALVE/CORP STOP PER DETAIL 2 ON SHEET C10.4 (R2) |
| 7 | | WATER METER PER DETAIL 2 ON SHEET C10.4 |
| 8 | | 4" IRR BFP PER DETAIL 5 ON SHEET C10.4 (R2) |
| 9 | | 4" PW BFP PER DETAIL 5 ON SHEET C10.4 |
| 10 | | 8" FW BFP PER DETAIL 7 ON SHEET C10.3 |
| 11 | W | WATER TRENCH PER DETAILS 1, 6 ON SHEET C10.3 |
| 12 | | FDC PER DETAIL 5 ON SHEET C10.3 |
| 13 | | INFILTRATION TRENCH, SLP |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES W. DALLOZZO IV
No. 72339
CIVIL
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.05.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

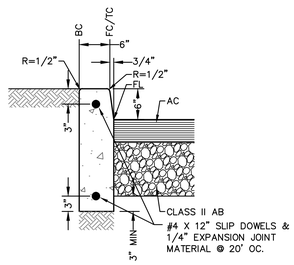
## UTILITY PLAN

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

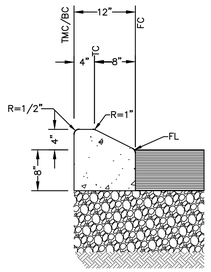
# C6.5
(REV.)

DRAWING NAME: \\bkf-r2\vol4\2021\20178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C6.0 PRUTIL.dwg
PLOT DATE: 01-19-24
PLOTTED BY: meyj



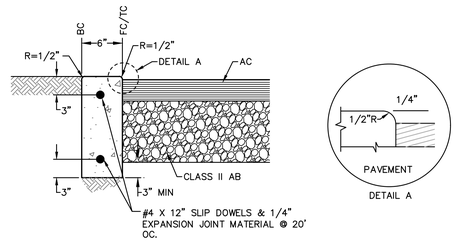

NOTES:
1. MATERIAL FOR EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 1751.
2. REFER TO THE RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER FOR SUBGRADE PREPARATION.

**1 – 6" VERTICAL CURB**
NTS



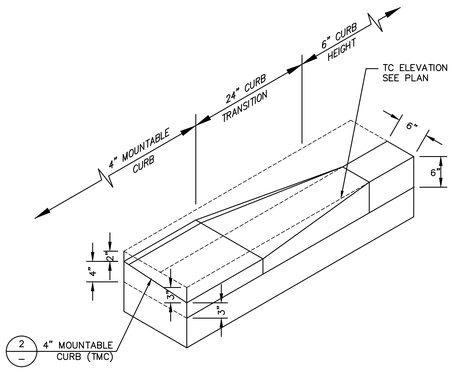

NOTES:
1. MATERIAL FOR EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 1751.
2. REFER TO RECOMMENDATIONS BY GEOTECH ENGINEER FOR SUBGRADE PREPARATION.

**2 – 4" MOUNTABLE CURB**
NTS

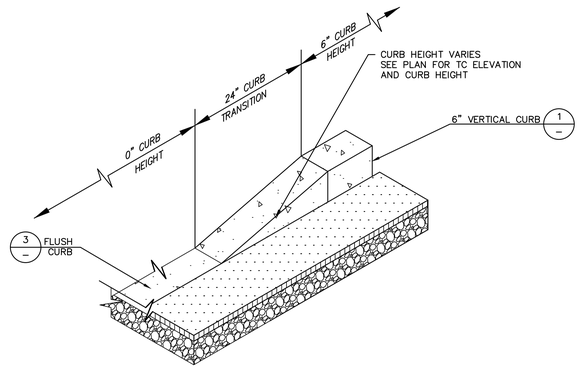



NOTES:
1. MATERIAL FOR EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 1751.
2. REFER TO THE RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER FOR SUBGRADE PREPARATION.

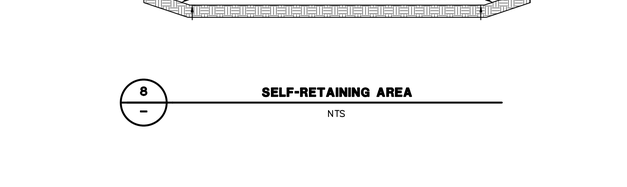
**3 – FLUSH CURB**
NTS




**4 – 4" MC TO 6" VC TRANSITION**
NTS




**5 – FLUSH CURB TO 6" VC TRANSITION**
NTS

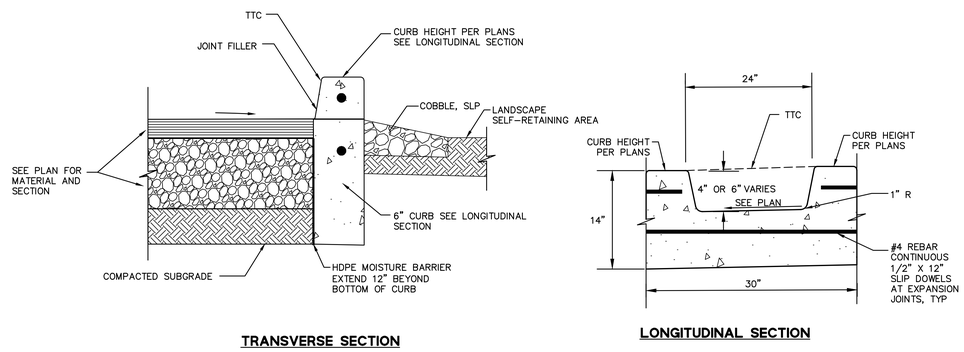



**SECTION**

**RAISED TRUNCATED DOME PATTERN (IN–LINE)**

NOTES:
1. RAISED TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL BE SIZED AND SPACED PER CBC SECTIONS 11B–705.1.1.1 AND 11B–705.1.1.2
2. DETECTABLE WARNING SURFACES SHALL BE WHITECAP "PEARL WHITE" AND COLOR 37875.
3. DETECTABLE WARNINGS AT CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN LESS 2 INCHES MAXIMUM ON EACH SIDE, EXCLUDING FLARED SIDES (CBC SECTION 11B–705.1.2.2).
4. DETECTABLE WARNINGS AT CURB RAMPS (EXCEPT PARALLEL CURB RAMPS) SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND 8 INCHES MAXIMUM FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB AND THE GUTTER, STREET OR HIGHWAY (CBC SECTION 11B–705.1.2.2).
5. ONLY APPROVED DSA–AC DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE INSTALLED (CBC SECTION 11B–705.3).

**6 – DETECTABLE WARNING SURFACE**
NTS

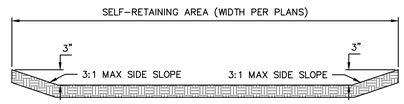



**TRANSVERSE SECTION**

**LONGITUDINAL SECTION**

NOTES:
1. FOR FINISHED GRADE OF LANDSCAPE AREAS NEXT TO CURB CUTS SLP.

**7 – CURB CUT**
NTS




**8 – SELF-RETAINING AREA**
NTS

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER
JAMES W. DALLISTER
No. 72339
CIVIL
STATE OF CALIFORNIA

PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/24
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

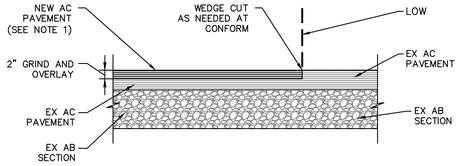
DETAILS

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

C10.0
(REV.)

DRAWING NAME: \\Bkf-rc\Vol4\2021\210178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C11.0 DETAILS.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mejj

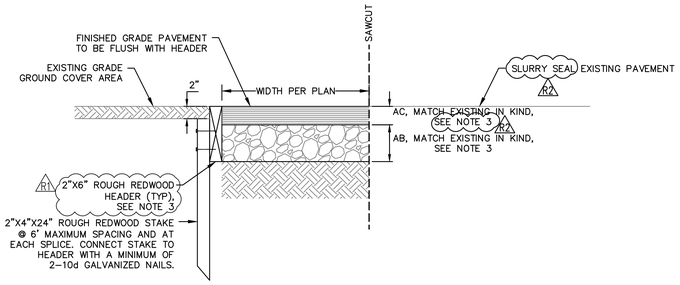



NOTE:

1. GRIND EXISTING AC 2" MIN AND OVERLAY TO MATCH EX STREET CROSS SLOPE, SEE PLANS FOR LIMIT OF OVERLAY.

**1 — 2" GRIND AND OVERLAY**

NTS

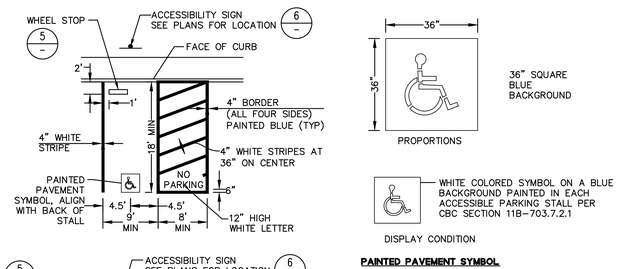



NOTES:

1. ALL REDWOOD SHALL BE CONSTRUCTION HEART GRADE.
2. ALL STAKES SHALL BE INSTALLED ON LANDSCAPE SIDE OF REDWOOD HEADER.
3. CONTRACTOR TO CONFIRM PAVEMENT SECTION DEPTH PRIOR TO PLACING REDWOOD HEADER. REDWOOD HEADER TO MATCH OR EXTEND PAST BOTTOM OF AB LAYER. AT A MINIMUM, 2.5" AC/7.5" AB SHALL BE PROVIDED. R2

**2 — REDWOOD HEADER**

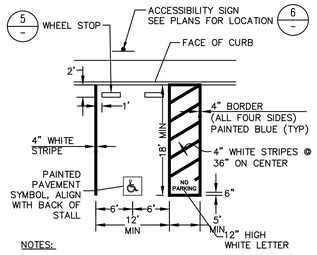
NTS







**PAINTED PAVEMENT SYMBOL**




NOTES:

1. EACH ACCESSIBLE SPACE SHALL HAVE SURFACE IDENTIFICATION IN COMPLIANCE WITH CBC SECTIONS 11B-502.6.4.1 OR 11B-502.6.4.2.
2. "NO PARKING" PAVEMENT MARKING SHALL BE 12" HIGH WHITE LETTERS AND SHALL BE LOCATED TO BE VISIBLE FROM ADJACENT VEHICULAR WAY. (CBC 11B-502.3.3)
3. SURFACE OF PARKING SPACE AND ACCESS AISLE SHALL NOT BE STEEPER THAN 1:48 (2%) IN ANY DIRECTION. NO CHANGES IN ELEVATION ARE ALLOWED. (CBC 11B-502.4)
4. VERTICAL CLEARANCE SHALL NOT BE LESS THAN 8'-2". (CBC 11B-502.5)
5. ACCESS AISLE SHALL BE LOCATED ON EITHER SIDE OF VEHICLE PARKING SPACE. (CBC 11B-502.3.4)

**3 — STANDARD ADA PARKING STALL**

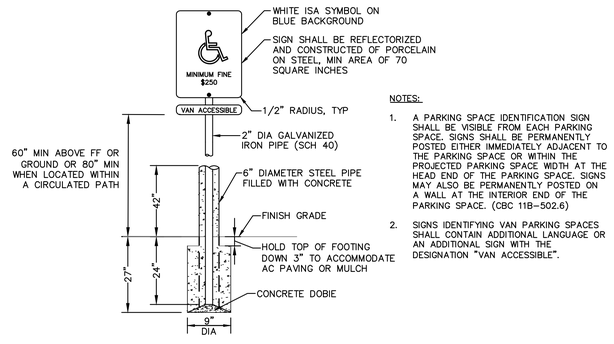
NTS

NOTES:

1. EACH ACCESSIBLE SPACE SHALL HAVE SURFACE IDENTIFICATION IN COMPLIANCE WITH CBC SECTIONS 11B-502.6.4.1 OR 11B-502.6.4.2.
2. "NO PARKING" PAVEMENT MARKING SHALL BE 12" HIGH WHITE LETTERS AND SHALL BE LOCATED TO BE VISIBLE FROM ADJACENT VEHICULAR WAY. (CBC 11B-502.3.3)
3. SURFACE OF PARKING SPACE AND ACCESS AISLE SHALL NOT BE STEEPER THAN 1:48 (2%) IN ANY DIRECTION. NO CHANGES IN ELEVATION ARE ALLOWED. (CBC 11B-502.4)
4. VERTICAL CLEARANCE SHALL NOT BE LESS THAN 8'-2". (CBC 11B-502.5)
5. ACCESS AISLE SHALL BE LOCATED ON THE PASSENGER SIDE OF VEHICLE PARKING SPACE. (CBC 11B-502.3.4)
7. ON THE GROUND, AT THE ACCESSIBLE PARKING LOADING/UNLOADING AISLE, A PAINTED SIGN INDICATING "NO PARKING" SHALL BE PAINTED IN 12" HIGH WHITE LETTERS AND LOCATED SO THAT IT IS VISIBLE TO TRAFFIC ENFORCEMENT OFFICIALS PER CBC 11B-502.3.3.

**4 — VAN ADA PARKING STALL**

NTS

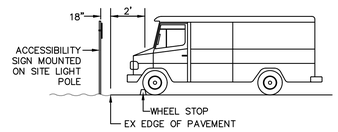


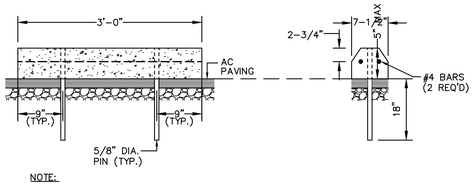

NOTES:

1. A PARKING SPACE IDENTIFICATION SIGN SHALL BE VISIBLE FROM EACH PARKING SPACE. SIGNS SHALL BE PERMANENTLY POSTED EITHER IMMEDIATELY ADJACENT TO THE PARKING SPACE OR WITHIN THE PROJECTED PARKING SPACE WIDTH AT THE HEAD END OF THE PARKING SPACE. SIGNS MAY ALSO BE PERMANENTLY POSTED ON A WALL AT THE INTERIOR END OF THE PARKING SPACE. (CBC 11B-502.6)
2. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN ADDITIONAL LANGUAGE OR AN ADDITIONAL SIGN WITH THE DESIGNATION "VAN ACCESSIBLE".

**6 — ACCESSIBLE PARKING SIGN**

NTS




NOTE:

1. PROVIDE WHEEL STOP IN COMPLIANCE WITH CBC SECTION 11B-502.7.2

**5 — CONCRETE WHEEL STOP**

NTS

DRAWING NAME: \\Bkf-rc\vol4\2021\210178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C11.0 DETAILS.dwg
PLOT DATE: 01-19-24 PLOTTED BY: mey


cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER — JAMES A. DALLOS TAIT — No. 72339 — CIVIL — STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R1 | BID ADDENDUM R1 | 12.22.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER — JOHN MAJER STILLMAN — C 47882 — 12/31/25 — CIVIL — STATE OF CALIFORNIA

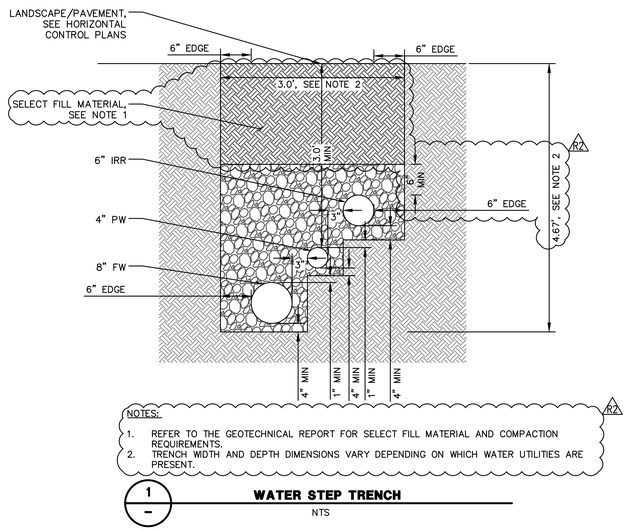
SHEET TITLE

## DETAILS

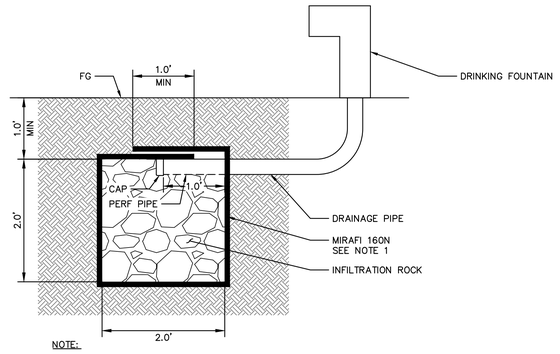
| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

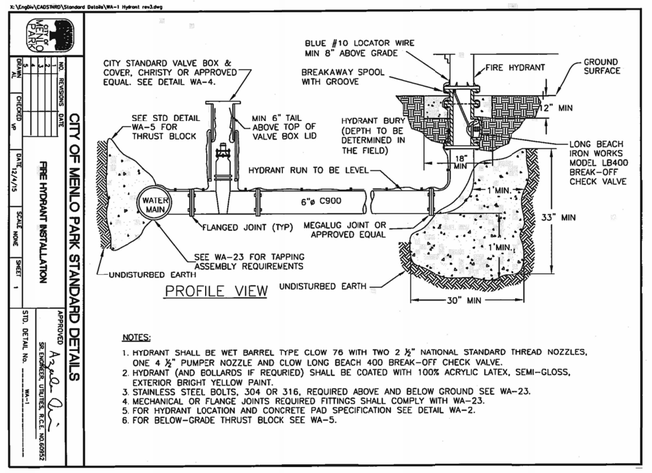
# C10.1
(REV.)



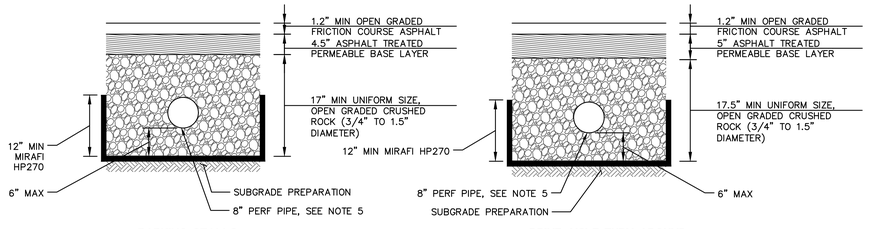

**1 — WATER STEP TRENCH**
NTS




**2 — INFILTRATION PIT**
NTS



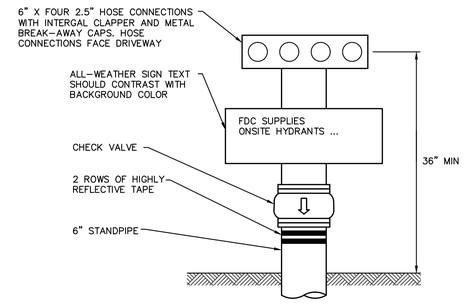

**3 — FIRE HYDRANT**
NTS



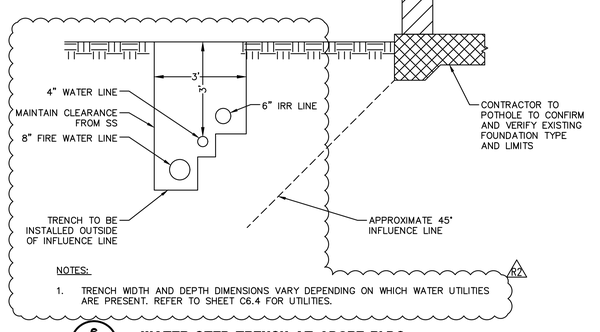

NOTES:

1. REFER TO THE GEOTECHNICAL ENGINEER RECOMMENDATION FOR AB COMPACTION REQUIREMENTS.
2. REFER TO THE GEOTECHNICAL ENGINEER RECOMMENDATION FOR SUBGRADE PREPARATION.
3. A PRODUCT SUBMITTAL INCLUDING TESTING INFORMATION FOR CLASS II AB AND CRUSHED STONE (ASTM C33 NO. 8 AND 57) SHALL BE SUBMITTED TO THE CIVIL AND GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO BRINGING THE MATERIAL TO THE SITE. A COMPACTION CURVE (ASTM D1557) SHOULD BE PROVIDED FOR THE MATERIAL AND IF ONE IS NOT AVAILABLE THEN THIS TEST SHOULD BE PERFORMED AND SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR APPROVAL PRIOR TO USE AT THE SITE.
4. GEOTECHNICAL ENGINEER SHALL BE PRESENT AND PROVIDE RECOMMENDATIONS DURING COMPACTION ACTIVITIES AND PRIOR TO SECTION INSTALLATION.
5. SUB-DRAINAGE SHALL BE PROVIDED AT LOW SIDE OF PERMEABLE AC ROADWAY ADJACENT TO CURB.

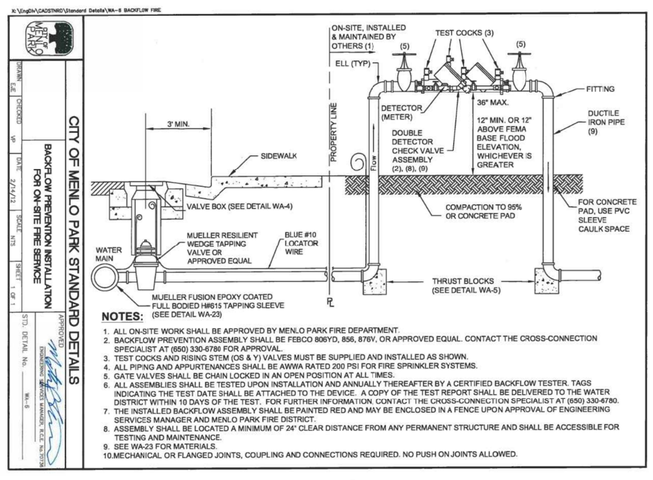
**4 — PERMEABLE AC PAVEMENT SECTION**
NTS



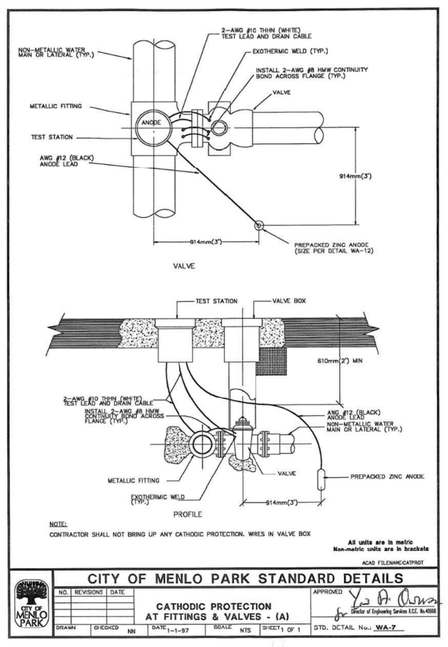

**5 — FIRE DEPARTMENT CONNECTION ASSEMBLY**
NTS




**6 — WATER STEP TRENCH AT ADOBE BLDG**
NTS




**7 — FIRE SERVICE BACKFLOW PREVENTER**
NTS




**8 — CATHODIC PROTECTION AT FITTINGS & VALVES**
NTS

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES A. DALLOSTA No. 72339 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER ANN MAGEE STILLMAN C 47882 EXPIRES: 12/31/25 CIVIL STATE OF CALIFORNIA

SHEET TITLE

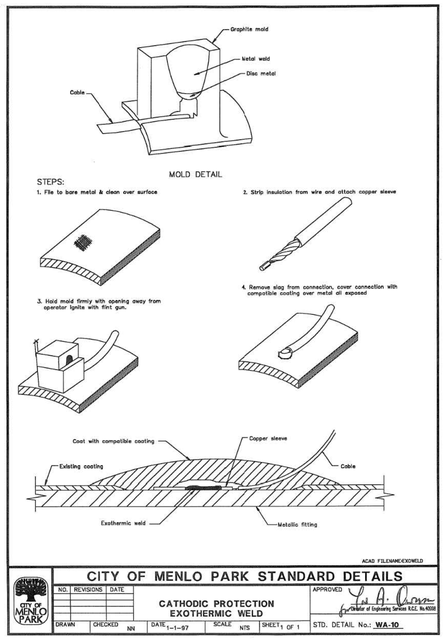
## DETAILS

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

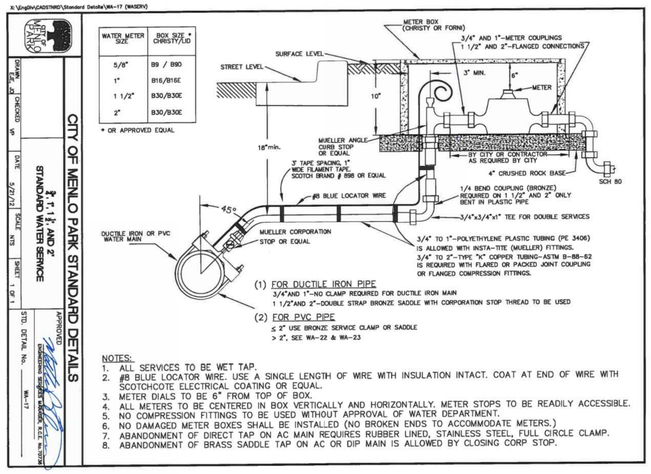
SHEET NUMBER

# C10.3
(REV.)

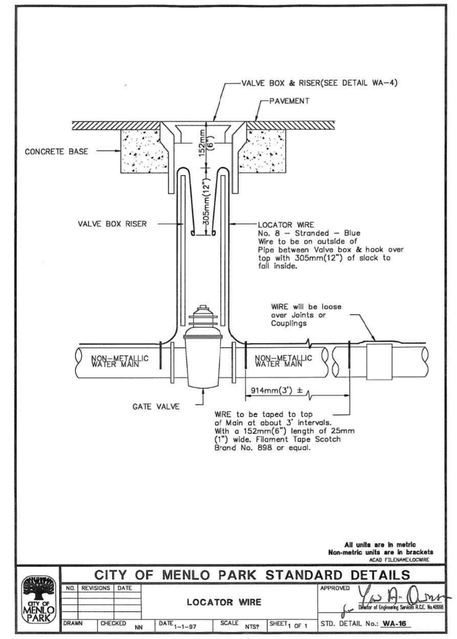
DRAWING NAME: \\Bkf-cvol4\2021\20178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C11.0 DETAILS.dwg
PLOT DATE: 01-19-24 PLOTTED BY: meyj



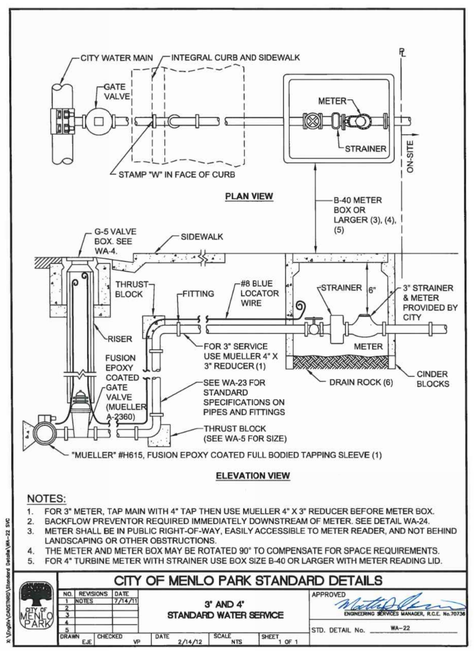

1 — CATHODIC PROTECTION WITH EXOTHERMIC WELD
NTS



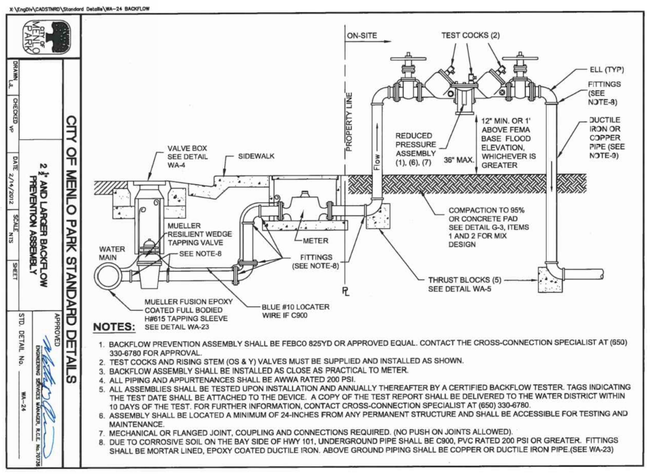

2 — 3/4", 1", 1 1/2", AND 2" WATER SERVICE
NTS



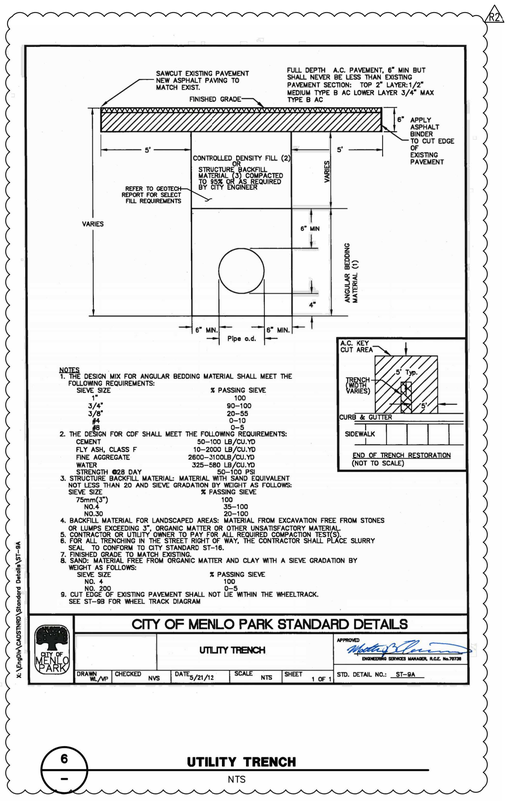

3 — LOCATOR WIRE
NTS




4 — 3" AND 4" WATER SERVICE
NTS




5 — 2 1/2" AND LARGER BACKFLOW PREVENTER
NTS




6 — UTILITY TRENCH
NTS

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

BKF

PROJECT NAME

# FLOOD PARK
215 BAY RD,
MENLO PARK, CA 94025

STAMP

REGISTERED PROFESSIONAL ENGINEER JAMES W. DALOSTAN No. 72339 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 09.30.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER ANN MADER STILLMAN C 47882 Exp. 12/31/24 CIVIL STATE OF CALIFORNIA

SHEET TITLE

## DETAILS

| PROJECT | DRAWN BY |
|---|---|
| 20210178 | JM, CP, BA |
| SCALE | CHECKED BY |
| AS SHOWN | JW, JD |

SHEET NUMBER

# C10.4
(REV.)

DRAWING NAME: \\Bkf-rc\vol4\2021\210178_Reimagine_Flood_Park_Design\ENG\CD\SHEETS\C11.0 DETAILS.dwg
PLOT DATE: 01-19-24 PLOTTED BY: meyj

## CSM 2101 - MATERIALS SCHEDULE

### PAVING

| TAG | SYMBOL | TYPE | DETAIL | MANUFACTURER | PRODUCT | NOTES/DESCRIPTION |
|---|---|---|---|---|---|---|
| P1 | | ASPHALT PAVING –PEDESTRIAN | 1/L6–100 | EDGE RESTRAINT: PERMALOC | ASPHALTEDGE ALUMINUM ASPHALT RESTRAINT | ASPHALTEDGE DEPTH: 2", COLOR: BLACK DURAFLEX |
| P2 | | ASPHALT PAVING –VEHICULAR | 3/L6–100 | EDGE RESTRAINT: PERMALOC | ASPHALTEDGE ALUMINUM ASPHALT RESTRAINT | ASPHALTEDGE DEPTH: 3", COLOR: BLACK DURAFLEX |
| P3 | | ASPHALT PAVING –VEHICULAR AT TREE ZONE | 2/L6–100 | EDGE RESTRAINT: PERMALOC | ASPHALTEDGE ALUMINUM ASPHALT RESTRAINT | ASPHALTEDGE DEPTH: 3", COLOR: BLACK DURAFLEX GEOTEXTILE: MIRAFI HP570 |
| P4 | | DETECTABLE WARNING STRIPS | SCD | TEKWAY | STANDARD ADA DOME TILES – 30" X 36" | COLOR: WHITE |
| P5 | | STABILIZED CRUSHED STONE PAVING | 1/L6–101 | TMT ENTERPRISES | CALIFORNIA GOLD, WITH PHP STABILIZER | INSTALL PER MANUFACTURERS RECOMMENDATIONS. PROVIDE ASPHALT EDGE 3", COLOR: BLACK DURAFLEX |
| P6 | | TENNIS COURT PAVING AND SURFACING | 5/L6–102 | LAYKOLD | SURFACE: CUSHION PLUS SYSTEM STRIPING: LINE PRIMER & TEXTURED LINE PAINT | COLORS AND STRIPING PER PLAN ENLARGEMENT PLAN |
| P7 | | BASKETBALL COURT PAVING AND SURFACING | 5/L6–102 | LAYKOLD | SURFACE: CUSHION PLUS SYSTEM STRIPING: LINE PRIMER & TEXTURED LINE PAINT | COLORS AND STRIPING PER PLAN ENLARGEMENT PLAN |
| P8 | | PUMP TRACK | – | – | – | THE PUMP TRACK IS N.I.C. IT WILL BE COMPLETED AS PART OF A SEPARATE DESIGN–BUILD CONTRACT. REFER TO SPECIFICATIONS SPECIAL PROVISIONS SECTION FOR COORDINATION REQUIREMENTS |
| P9 | | VOLLEYBALL SAND | 1/L6–102 | G3 MINERALS | PURE SILICA, WASHED FREE OF ALL ORGANICS | EDGE RESTRAINT: 2X12 REDWOOD HEADER; CONSTRUCTION GRADE OR BETTER; SECURE WITH 2X2 REDWOOD STAKE, 24" LONG MINIMUM, PLACE STAKES 4'O.C. MAX AND AT ALL SPLICE LOCATIONS; INCLUDE (2) STAKES AT CORNER JOINTS, PLASTIC VOLLEYBALL COURT EDGE GUARD IN COLOR TBD |
| P10 | | CONCRETE CURB | 2/L6–203 | – | – | COLOR: NATURAL GRAY |
| P11 | | SYNTHETIC TURF | 2/L6–103 | TURF: FIELDTURF SHOCKPAD: SHOCKBASE INFILL: ORGANIC CORK AND SAND | TURF: VERTEXCORE DUAL FIBER SHOCKPAD: SHOCKBASE PRO INFILL: ORGANIC CORK/SAND | THE SYNTHETIC TURF SHALL BE PROVIDED AND INSTALLED BY A VENDOR THROUGH A CALIFORNIA MULTIPLE AWARD SCHEDULE (CMAS) PROCUREMENT PROCESS. REFER TO THE CMAS NOTES FOR MORE INFORMATION. MARKING AND SEAM DETAILS TO BE PROVIDED BY MANUFACTURER AND INSTALLER |
| P12 | | FLAGSTONE PAVING | 3,4/L6–101 | LYNSGO | A. SILVER QUARTZITE FLAGS B. GOLD QUARTZITE FLAGS | PROVIDE SAMPLES FOR REVIEW AND APPROVAL ACCORDING TO SPECIFICATIONS SIZES: PER DETAILS SETTING BED: PER DETAILS AND SPECIFICATIONS, JOINT SAND PER SPECIFICATIONS. MORTAR SETTING AT PLANTING: PER DETAILS AND SPECIFICATIONS. |
| P13 | | GRAVEL MULCH | – | LYNGSO | 3/8" CRUSHED ROSE GOLD | PROFILE: 3" |
| P14 | | ATHLETIC FIELD CONC. PERIMETER CURB | 3/L6–103 | – | – | COLOR: NATURAL GRAY |

### SITE ELEMENTS

| TAG | SYMBOL | TYPE | DETAIL | MANUFACTURER | PRODUCT | NOTES/DESCRIPTION |
|---|---|---|---|---|---|---|
| S1 | | SPECTATOR SEATING | 2/L6–202 R2 | STREETLIFE | HEAVY – HEAVY MALAPARTE, CUSTOM LENGTHS PER PLAN | 34" HEIGHT, LENGTH PER PLAN, FSC HARDWOOD, GALVANIZED STEEL SUPPORTS. |
| S2 | | DRINKING FOUNTAIN | 1/L6–201 | MOST DEPENDABLE FOUNTAINS (MDF) | MODEL 10145SMSS WITH PET BOWL | COLOR: GREEN; EACH FOUNTAIN TO INCLUDE DOMESTIC WATER AND DRYWELL CONNECTION (SCD) |
| S3 | | WASTE RECEPTACLES | 3/L6–201 | BEAR SAVER | HA2–PX | DOUBLE TRASH/RECYCLING LABELS, COLOR: FIR GREEN, S.S. PADLOCK HASP |
| S4 | | BENCH | 1/L6–202 | STREETLIFE | ROUGH & READY L6 BENCHES | LINKED LENGTHS PER PLAN, HIGH BACKREST, GALV. STEEL BASE, ACCOYA WOOD, CENTRAL ARM RESTS ONLY. |
| S5 | | ADIRONDACK CHAIRS AND RECLAIMED LOG TABLES | 2/L6–222 | LOLL DESIGNS | LOLLYGAGGER LOUNGE CHAIR | QTY: 30. COLOR ORANGE, EACH SEATING AREA TO INCLUDE RECLAIMED LOG TABLE TO BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR |
| S6 | | BIKE RACKS | 4/L6–201 | STREETLIFE | SOLID BIKE PARKING | FINISH: ACCOYA WOOD WITH GALVANIZED STEEL. |
| S7 | | VEHICULAR CHAINLINK GATE | 3/L6–200 | – | – | 20' WIDE VEHICULAR ENTRY GATE AT EXISTING FENCE; CHAIN LINK TO MATCH EXISTING FENCING |
| S8 | | WIFI POLE | 2/L6–203 | POLE: STRUCTURA | BOL–T–16–70–55–S1–C10–STD | COORDINATE CONDUIT CONNECTIONS WITH POST FOOTINGS. WIFI SYSTEMS AND FIBER ARE NOT IN CONTRACT |
| S9 | | REMOVABLE BOLLARDS | 1/L6–200 | STREETLIFE | ROUGH & READY BOLLARD 30" TALL BOLR (REMOVABLE) | ACCOYA WOOD WITH GALVANIZED STEEL |
| S10 | | PARKING LOT BOULDERS | 2/L6–200 | – | – | REPLACE EXISTING CONCRETE BOLLARDS WITH 2–3' SONOMA MOSS BOULDERS AT APPX 7' O.C. SOURCE: AMERICAN SOIL & STONE. |
| S11 | | UTILITY FENCE AT RESTROOM B | 1/L6–206 | WESTERN CEDAR FENCE BUSTERS | HAND SP BOARDS, | NOT USED - DEFERRED TO FUTURE PHASE SIDE" HAND SPLIT GRAPESTAKE CEDAR FENCE BOARDS |
| S12 | | ELECTRICAL EQUIPMENT ENCLOSURE | 1/L6–205 | WESTERN CEDAR FENCE BUSTERS | HAND SPLIT CEDAR FENCE BOARDS, STRAIGHT EDGE | RUSTIC "STRAIGHT SIDE" HAND SPLIT GRAPESTAKE CEDAR FENCE BOARDS |
| S13 | | PUMP TRACK FENCE | 1/L6–206 | WESTERN CEDAR FENCE BUSTERS | HAND SPLIT CEDAR FENCE BOARDS, STRAIGHT EDGE | RUSTIC "STRAIGHT SIDE" HAND SPLIT GRAPESTAKE CEDAR FENCE BOARDS |
| S14 | | TREE BRANCH BRACES | – | – | – | 1/4" GALVANIZED PLATE COLLAR FORMED TO FIT BRANCH, FILLET WELDED TO 3 GUAGE 3" DIA. GALV. PIPE. MIN EMBED 36". FOOTING IS 24" DIA X 42" DEEP W/ #4 REBAR CAGE @ 12" O.C.E.W. HEIGHTS VARY. CONTRACTOR TO FIELD LOCATE AND V.I.F. UNDER SUPERVISION OF COUNTY ARBORIST. ASSUME QUANTITY OF (8) WITH 80 LF. R2 |
| S15 | | BIKE REPAIR STATION | 3/L6–203 | DERO | FIXIT PLUS W/ AIR KIT PRIME | 1–BIKE REPAIR STAND W/ FULL HAND TOOL & AIR PUMP KIT. GALVANIZED FINISH W/ CANE STOP. INSTALLATION HARDWARE SUPPLIED BY MANUF. |

### PICNIC AREAS

| TAG | SYMBOL | TYPE | DETAIL | MANUFACTURER | PRODUCT | NOTES/DESCRIPTION |
|---|---|---|---|---|---|---|
| A1 | | OAK PICNIC AREA STRUCTURES | – | – | – | PROTECT IN PLACE |
| A2 | | PICNIC TABLES (OAK PICNIC AREA) | 1/ L6–221 | – | – | COUNTY WILL PROCURE AND DELIVER ALL FABRICATED AND FINISHED TABLE METAL FRAME COMPONENTS, HARDWARE, AND REDWOOD TABLE TOPS AND SEATS. CONTRACTOR TO FINISH ALL NOMINAL LUMBER AS IDENTIFIED IN L6–221 AND L6–222 AND INSTALL AND ASSEMBLE TABLES. R1 |
| A3 | | KIDS PICNIC TABLE | 1/ L6–222 R2 | – | – | COUNTY WILL PROCURE AND DELIVER ALL FABRICATED AND FINISHED TABLE METAL FRAME COMPONENTS, HARDWARE, AND REDWOOD TABLE TOPS AND SEATS. CONTRACTOR TO FINISH ALL NOMINAL LUMBER AS IDENTIFIED IN L6–222 AND INSTALL AND ASSEMBLE TABLES. |
| A4 | | STD. PICNIC TABLE | 1/ L6–221 | – | – | COUNTY WILL PROCURE AND DELIVER ALL FABRICATED AND FINISHED TABLE METAL FRAME COMPONENTS, HARDWARE, AND REDWOOD TABLE TOPS AND SEATS. CONTRACTOR TO FINISH ALL NOMINAL LUMBER AS IDENTIFIED IN L6–221 AND INSTALL AND ASSEMBLE TABLES. |
| A5 | | ADA PICNIC TABLE | 1/ L6–221 | – | – | COUNTY WILL PROCURE AND DELIVER ALL FABRICATED AND FINISHED TABLE METAL FRAME COMPONENTS, HARDWARE, AND REDWOOD TABLE TOPS AND SEATS. CONTRACTOR TO FINISH ALL NOMINAL LUMBER AS IDENTIFIED IN L6–221 AND INSTALL AND ASSEMBLE TABLES. |
| A6 | | NEW PEDESTAL GRILLS | 2/L6–201 | PILOT ROCK | ASW–20 B2 ACCESSIBLE GRILL | COLOR: STANDARD BLACK ENAMEL |
| A7 | | LARGE COUNTERTOP GRILLS | L6–223 | OUTDOOR CREATIONS INC. | 3001AG ADJUSTABLE GRILL | GRILL INSERT ONLY, FULL CONCRETE HOUSING NOT NEEDED |
| A8 | | SMALL COUNTERTOP GRILLS | L6–223 | PILOT ROCK | Q–24–B2 | GRILL INSERT ONLY, NO POST NEEDED |
| A9 | | SINKS | L6–223 | SINK: ELKAY FAUCET: KRAUS | SINK: PLAFRU281610 FAUCET: KPF–1610MB–KAG–1MB | SINK: 30.5" X 18.5" X 10" SINGLE BOWL UNDERMOUNT OUTDOOR SINK FAUCET: SINGLE–HOLE, DECK–MOUNTED MANUAL SINK FAUCET, MATTE BLACK |
| A10 | | GRILL COUNTERS | L6–223–28 | | | COUNTERTOP SURFACE: COLDSPRING ACADEMY BLACK W/ DIAMOND 8 FINISH; COUNTERTOP SIDES & VERTICAL FACES: COLDSPRING ACADEMY BLACK W/ THERMAL FINISH. WALLS: SEDIMENTARY CONCRETE W/ SS ACCESS DOORS |
| A11 | | WOOD COUNTERS | 2/L6–222 | POWER: B–K LIGHTING | POWER: C1203–08 PRODUCT: CUS–1203–01 OPT A FINISH: BZP SATIN BRONZE | COUNTY WILL PROCURE AND DELIVER ALL FABRICATED AND FINISHED TABLE METAL FRAME COMPONENTS, HARDWARE, AND REDWOOD TABLE TOPS AND SEATS. CONTRACTOR TO FINISH ALL NOMINAL LUMBER AS IDENTIFIED IN L6–222 AND INSTALL AND ASSEMBLE TABLES INCLUSIVE OF POWER RECEPTACLE WITH IN–USE COVER AND TAMPERPROOF SCREW. R1 |
| A12 | | DUMPSTERS AND ENCLOSURES | 1/L6–204 | – | – | DUMPSTERS PROVIDED BY OWNER, SEE DETAIL FOR ENCLOSURE DESIGN. |
| A13 | | PINATA HANGERS (N.I.C) | | – | – | TO BE COMPLETED AS PART OF FUTURE PHASE |

### SPORTS COURT/FIELD ELEMENTS

| TAG | SYMBOL | TYPE | DETAIL | MANUFACTURER | PRODUCT | NOTES/DESCRIPTION |
|---|---|---|---|---|---|---|
| F1 | | BASKETBALL RIM, BACKBOARD, POLE AND NYLON NET | 2/L6–212 | TRUE BOUNCE | XL7042; PA666; RB1000 | FREE–STANDING BASKETBALL HOOP WITH NYLON NET BACKBOARD: RECREATIONAL XL SERIES OUTDOOR CLEAR PERFORATED POLYCARBONATE WITH RED SHOT BLOCK AND WHITE PERIMETER POLE: (2) TRUE FIX 6" SQUARE POLE, COLOR BLACK R1 |
| F2 | | TENNIS COURT FENCE | 5/L6–211 | – | – | POSTS: 4"X4"X10' CHAINLINK POSTS @ 8'–0" MAX OC & ALL CORNERS. INWARD SWING GATE AT ENTRY. FENCING: FOREST GREEN VINYL COATED 1" SQ. CHAINLINK FENCE |
| F3 | | TENNIS COURT NET | 3,4/L6–211 | ANTHEM SPORTS | FIRST TEAM SENTRY IN–GROUND COMBO PICKLEBALL/TENNIS SYSTEM | INCLUDE NET ANCHOR R1 R2 |
| F4 | | VOLLEYBALL NET, POLE & RATCHET, J–BOLT, AND ANCHOR | 1/L6–212 & 5/L6–211 R1 | SPORTS IMPORTS | POLE & RATCHET: SENOH DE5010 W/ HDNR–B NET RATCHET J BOLT: SVJ–J BOLT ANCHOR: SVA–SAND VOLLEYBALL ANCHOR | SALVAGE EXISTING VOLLEYBALL COURT NETS AND PROVIDE TO COUNTY. POSTS: SENOH DE5010 POST, SVA SAND VOLLEYBALL ANCHOR, AND SVJ–J BOLT. FOR COURT EDGE GUARD: USE SAND VOLLEYBALL COURT EDGE GUARD TM FROM SUPPLIER VOLLEYBALL USA OR APPROVED EQUAL. COLOR TO BE DARK GREEN R2 |
| F5 | | STORAGE SHED | – | KETER | ARTISAN 9X7 STORAGE SHED– GREY | PROVIDE 4" DEEP CONCRETE PAD SET +1" FG, #4 REBAR @ 16" OC BOTH WAYS, 3" CLR FROM OUTSIDE EDGES, TYP. OVER COMPACTED SUBGRADE. |
| F6 | | S12 SOCCER GOALS | – | FIRST TEAM | 24'X8' WORLD CLASS 40 ELITE PORTABLE SOCCER GOALS | TO BE PURCHASED DIRECTLY BY CLIENT GROUP, N.I.C. |

### RESERVABLE PICNIC AREA (R.P.A.) KEY

| AREA KEY | CAPACITY | ACCESSIBLE TABLES | STANDARD TABLES | COUNTERS | GRILLS | NOTES |
|---|---|---|---|---|---|---|
| OAK PICNIC AREA | 200 | 6 | 18 | (1) MASONRY (4) WOOD COUNTERS | (2) LARGE ADJUSTABLE (4) LARGE ACCESSIBLE | EXISTING TABLE ACCESSIBILITY TO BE VERIFIED IN– FIELD; INCLUDES (2) SINKS |
| BAY R.P.A. | 150 | 6 | 12 | (1) MASONRY (3) WOOD COUNTERS | (2) LARGE ADJUSTABLE (2) LARGE ACCESSIBLE | INCLUDES (1) SINK, (8) ADIRONDACK CHAIRS R2 |
| MAPLE R.P.A. | 100 | 3 | 8 | (1) MASONRY (2) WOOD COUNTERS | (2) LARGE ADJUSTABLE (1) LARGE ACCESSIBLE | INCLUDES (1) SINK, (4) ADIRONDACK CHAIRS |
| MADRONE R.P.A. | 100 | 3 | 9 | (1) MASONRY (3) WOOD COUNTERS | (2) LARGE ADJUSTABLE (1) LARGE ACCESSIBLE | INCLUDES (1) SINK, (7) ADIRONDACK CHAIRS |
| FIR R.P.A. | 50 | 2 | 4 | (1) MASONRY (2) WOOD COUNTERS | (1) LARGE ADJUSTABLE (1) LARGE ACCESSIBLE | |
| REDWOOD R.P.A. | 50 | 2 | 4 | (1) MASONRY (2) WOOD COUNTERS | (1) LARGE ADJUSTABLE (1) LARGE ACCESSIBLE | INCLUDES (4) ADIRONDACK CHAIRS R2 |
| PINE R.P.A. | 40 | 2 | 4 | (1) MASONRY (2) WOOD COUNTERS | (1) LARGE ADJUSTABLE (1) LARGE ACCESSIBLE | INCLUDES (4) ADIRONDACK CHAIRS |
| MANZANITA R.P.A. | TO BE REFURBISHED IN PHASE 3 | | | | | |

### DROP-IN PICNIC AREA KEY

| AREA KEY | CAPACITY | ACCESSIBLE TABLES | STANDARD TABLES | GRILLS | NOTES |
|---|---|---|---|---|---|
| D1 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D2 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D3 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D4 | 20 | 0 | 2 | (1) SMALL GRILL | – |
| D5 | 20 | 0 | 2 | (1) SMALL GRILL | – |
| D6 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D7 | 20 | 0 | 2 | (1) SMALL GRILL | – |
| D8 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D9 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D10 | 20 | 0 | 2 | (1) SMALL GRILL | – |
| D11 | 20 | 0 | 2 | (1) SMALL GRILL | – |
| D12 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D13 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D14 | 20 | 0 | 2 | (1) SMALL GRILL | – |
| D15 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D16 | 20 | 0 | 2 | (1) SMALL GRILL | – |
| D17 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D18 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D19 | 20 | 1 | 1 | (1) SMALL GRILL | – |
| D20 | 20 | 1 | 1 | (1) SMALL GRILL | – |

### GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR PARKING LOT PAVING/STRIPING
2. EXISTING PAVING/STRUCTURES NOT NOTED FOR DEMOLITION TO REMAIN PROTECTED DURING CONSTRUCTION
3. ALL PRODUCTS SPECIFIED BY SPECIFIC PRODUCT OR MANUFACTURER MAY BE SUBSTITUTED FOR APPROVED EQUAL, PENDING CONFORMANCE TO SPECIFICATIONS AND LANDSCAPE ARCHITECT REVIEW AND APPROVAL.
4. REFER TO L1–600 SERIES UNDERSTORY PLANTING PLANS FOR CLEARING AND GRUBBING REQUIRED FOR LANDSCAPE IMPROVEMENTS.
5. EXISTING BASE MATERIAL IS NOT SUITABLE FOR REUSE BENEATH SITE PAVING. ALL EXISTING BASE MATERIAL BELOW EXISTING PAVING IT TO BE REMOVED AND DISPOSED OF. SEE SUPPLEMENTAL REPORT BY CORNERSTONE EARTH GROUP. R2
6. REFER TO L1–300 SERIES GRADING AND DRAINAGE PLANS FOR EARTHWORK NOTES.
7. ALL SIGNAGE TO BE PROVIDED BY OWNER.

### SYNTHETIC TURF CALIFORNIA MULTIPLE AWARD SCHEDULE (CMAS) PROCUREMENT NOTES:

1. THE SYNTHETIC TURF FOR THE SMALL MULTIUSE FIELD AND THE VOLLEYBALL SEATING AREA SHALL BE PROVIDED AND INSTALLED BY A VENDOR THROUGH A CALIFORNIA MULTIPLE AWARD SCHEDULE (CMAS) PROCUREMENT PROCESS.
2. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE COUNTY CONSTRUCTION MANAGEMENT TEAM AND THE VENDOR TO COORDINATE SITE PREPARATION AND SCHEDULING OF THE WORK.
3. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING SITE PREPARATION, GRADING, AND DRAINAGE SYSTEMS IN ADVANCE OF THE SYNTHETIC TURF INSTALLATION:
   - A. DEMOLITION AND REMOVAL AND CLEARING AND GRUBBING OF THE FIELD AREA
   - B. INSTALLATION OF UTILITIES
   - C. ROUGH GRADING, SUBGRADE PREPARATION, AND FINE GRADING OF FIELD SUBGRADES
   - D. INSTALLATION OF THE CONCRETE PERIMETER CURB (P10)
   - C. INSTALLATION OF IRRIGATION SYSTEM INCLUDING ROTORS WITHIN FIELD TURF BASED ON COORDINATION WITH SYNTHETIC TURF VENDOR
   - D. TOPSOIL PLACEMENT AND TRANSITION GRADING FROM CONCRETE CURB TO ADJACENT GRADE ACCORDING TO GRADING PLANS.
   - E. INSTALLATION OF VOLLEYBALL COURT EDGING
4. THE CMAS VENDOR SHALL PROVIDE AND INSTALL THE FOLLOWING
   - A. HDPE HEADER PER DETAIL
   - B. GEOTEXTILE FABRIC
   - C. FIELD UNDERDRAINS
   - B. INSTALLATION OF THE PERIMETER DRAINAGE TRENCH AND PIPE WITH BUBBLE UPS
   - C. CLASS 2 PERMEABLE BASE PER DETAILS
   - D. SHOCKPAD
   - E. FIELD TURF
   - F. ORGANIC CORK/SAND INFILL
   - G. ALL MARKINGS AND SEAMS
5. THE RELEVANT SPECIFICATIONS SHALL APPLY TO BOTH SCOPES OF WORK.

### REUSE OF EXISTING AGGREGATE BASE MATERIAL

1. EXISTING AGGREGATE BASE ROCK MAY BE STOCKPILED AND REUSED PENDING FIELD REVIEW AND TESTING AS DIRECTED BY THE GEOTECHNICAL ENGINEER.


cmg Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
CHRISTOPHER M. QUILLARD, JR.
Signature
Date
Renewal Date 08/31/2024
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R1 | BID ADDENDUM R1 | 12.22.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANU MADER STILLMAN
No. C 47882
EXPIRES 06/30/25
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

## LANDSCAPE MATERIALS SCHEDULE

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| | CG, AMP |

SHEET NUMBER

# L1-100
(REV.)




## CSM 2101 - MATERIALS SCHEDULE

### PAVING

| TAG | SYMBOL | TYPE |
|---|---|---|
| P1 | | ASPHALT PAVING -PEDESTRIAN |
| P2 | | ASPHALT PAVING -VEHICULAR |
| P3 | | ASPHALT PAVING -VEHICULAR AT TREE ZONE |
| P4 | | DETECTABLE WARNING STRIPS |
| P5 | | STABILIZED CRUSHED STONE PAVING |
| P6 | | TENNIS COURT PAVING AND SURFACING |
| P7 | | BASKETBALL COURT PAVING AND SURFACING |
| P8 | | PUMP TRACK |
| P9 | | VOLLEYBALL SAND |
| P10 | | CONCRETE CURB |
| P11 | | SYNTHETIC TURF |
| P12 | | FLAGSTONE PAVING |
| P13 | | GRAVEL MULCH |
| P14 | | ATHLETIC FIELD CONC. PERIMETER CURB |

### SITE ELEMENTS

| TAG | SYMBOL | TYPE |
|---|---|---|
| S1 | | SPECTATOR SEATING |
| S2 | | DRINKING FOUNTAIN |
| S3 | | WASTE RECEPTACLES |
| S4 | | BENCH |
| S5 | | ADIRONDACK CHAIRS AND RECLAIMED LOG TABLES |
| S6 | | BIKE RACKS |
| S7 | | VEHICULAR CHAINLINK GATE |
| S8 | | WIFI POLE |
| S9 | | REMOVABLE BOLLARDS |
| S10 | | PARKING LOT BOULDERS |
| S11 | | UTILITY FENCE AT RESTROOM 'B' |
| S12 | | ELECTRICAL EQUIPMENT ENCLOSURE |
| S13 | | PUMP TRACK FENCE |
| S14 | | TREE BRANCH BRACES |
| S15 | | BIKE REPAIR STATION |

### PICNIC AREAS

| TAG | SYMBOL | TYPE |
|---|---|---|
| A1 | | OAK PICNIC AREA STRUCTURES |
| A2 | | PICNIC TABLES (OAK PICNIC AREA) |
| A3 | | KIDS PICNIC TABLE |
| A4 | | STD. 8' PICNIC TABLE |
| A5 | | STD. 10' PICNIC TABLE |
| A6 | | NEW PEDESTAL GRILLS |
| A7 | | LARGE COUNTERTOP GRILLS |
| A8 | | SMALL COUNTERTOP GRILLS |
| A9 | | SINKS |
| A10 | | GRILL COUNTERS |
| A11 | | WOOD COUNTERS |
| A12 | | DUMPSTERS AND ENCLOSURES |
| A13 | | PINATA HANGERS (N.I.C) |

### SPORTS COURT/FIELD ELEMENTS

| TAG | SYMBOL | TYPE |
|---|---|---|
| F1 | | BASKETBALL RIM, BACKBOARD, POLE AND NYLON NET |
| F2 | | TENNIS COURT FENCE |
| F3 | | TENNIS COURT NET |
| F4 | | VOLLEYBALL NET, POLE & RATCHET, J-BOLT, AND ANCHOR |
| F5 | | STORAGE SHED |
| F6 | | S12 SOCCER GOALS |

1"=20'
0 5 10 20 40
N

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
LIGIA M. GUILARTE
No. 6482
Signature
Renewal Date
OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
JOHN MAUER STILLMAN
C 47882
EXPIRES 12/31/2024
CIVIL
STATE OF CALIFORNIA

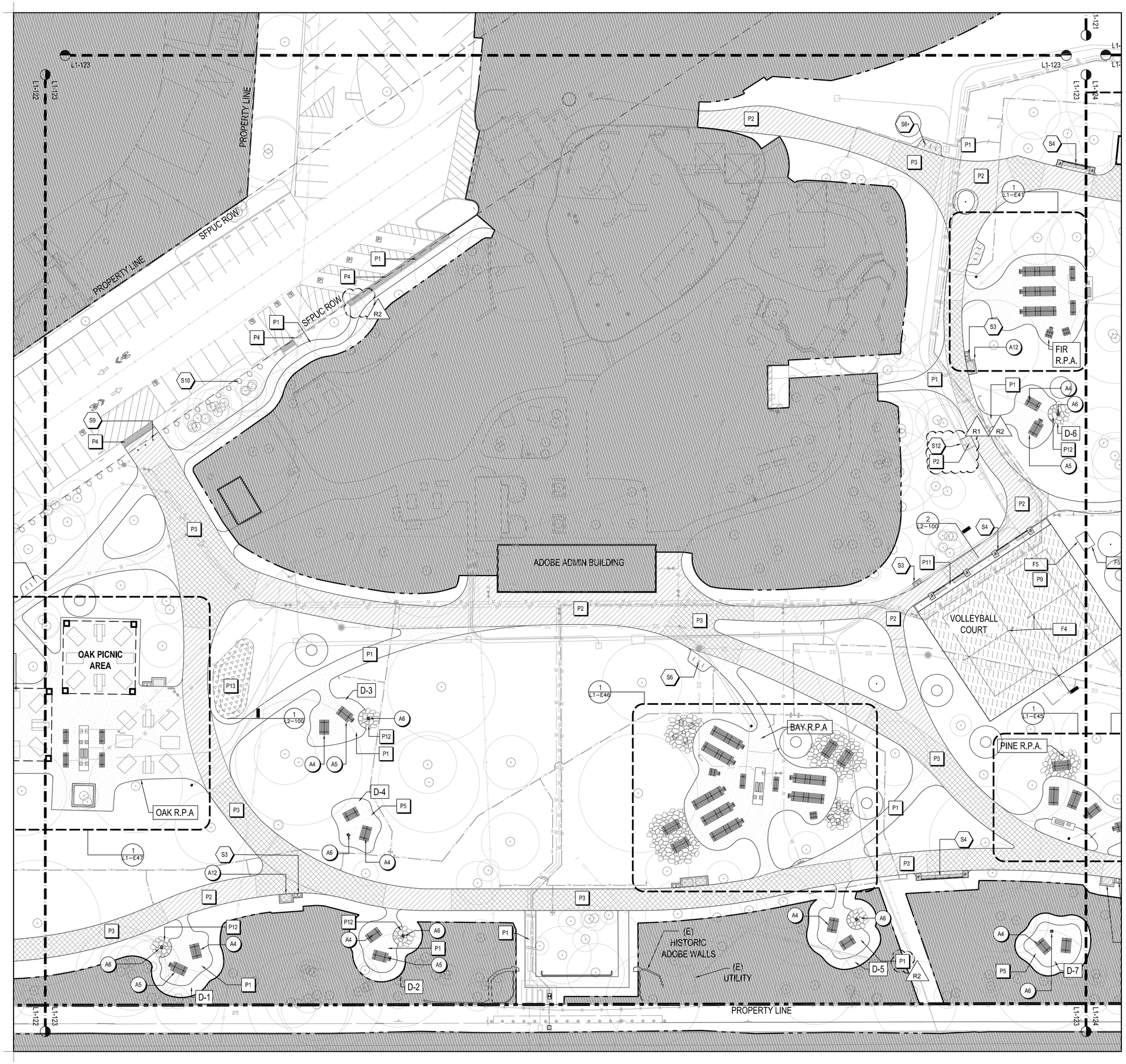
SHEET TITLE

## MATERIALS ENLARGEMENT PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 20'-0" | CG, AMP |

SHEET NUMBER

# L1-121
(REV.)




## CSM 2101 - MATERIALS SCHEDULE

### PAVING

| TAG | SYMBOL | TYPE |
|---|---|---|
| P1 | | ASPHALT PAVING –PEDESTRIAN |
| P2 | | ASPHALT PAVING –VEHICULAR |
| P3 | | ASPHALT PAVING –VEHICULAR AT TREE ZONE |
| P4 | | DETECTABLE WARNING STRIPS |
| P5 | | STABILIZED CRUSHED STONE PAVING |
| P6 | | TENNIS COURT PAVING AND SURFACING |
| P7 | | BASKETBALL COURT PAVING AND SURFACING |
| P8 | | PUMP TRACK |
| P9 | | VOLLEYBALL SAND |
| P10 | | CONCRETE CURB |
| P11 | | SYNTHETIC TURF |
| P12 | | FLAGSTONE PAVING |
| P13 | | GRAVEL MULCH |
| P14 | | ATHLETIC FIELD CONC. PERIMETER CURB |

### SITE ELEMENTS

| TAG | SYMBOL | TYPE |
|---|---|---|
| S1 | | SPECTATOR SEATING |
| S2 | | DRINKING FOUNTAIN |
| S3 | | WASTE RECEPTACLES |
| S4 | | BENCH |
| S5 | | ADIRONDACK CHAIRS AND RECLAIMED LOG TABLES |
| S6 | | BIKE RACKS |
| S7 | | VEHICULAR CHAINLINK GATE |
| S8 | | WIFI POLE |
| S9 | | REMOVABLE BOLLARDS |
| S10 | | PARKING LOT BOULDERS |
| S11 | | UTILITY FENCE AT RESTROOM B |
| S12 | | ELECTRICAL EQUIPMENT ENCLOSURE |
| S13 | | PUMP TRACK FENCE |
| S14 | | TREE BRANCH BRACES |
| S15 | | BIKE REPAIR STATION |

### PICNIC AREAS

| TAG | SYMBOL | TYPE |
|---|---|---|
| A1 | | OAK PICNIC AREA STRUCTURES |
| A2 | | PICNIC TABLES (OAK PICNIC AREA) |
| A3 | | KIDS PICNIC TABLE |
| A4 | | STD. 8' PICNIC TABLE |
| A5 | | STD. 10' PICNIC TABLE |
| A6 | | NEW PEDESTAL GRILLS |
| A7 | | LARGE COUNTERTOP GRILLS |
| A8 | | SMALL COUNTERTOP GRILLS |
| A9 | | SINKS |
| A10 | | GRILL COUNTERS |
| A11 | | WOOD COUNTERS |
| A12 | | DUMPSTERS AND ENCLOSURES |
| A13 | | PINATA HANGERS (N.I.C) |

### SPORTS COURT/FIELD ELEMENTS

| TAG | SYMBOL | TYPE |
|---|---|---|
| F1 | | BASKETBALL RIM, BACKBOARD, POLE AND NYLON NET |
| F2 | | TENNIS COURT FENCE |
| F3 | | TENNIS COURT NET |
| F4 | | VOLLEYBALL NET, POLE & RATCHET, J–BOLT, AND ANCHOR |
| F5 | | STORAGE SHED |
| F6 | | S12 SOCCER GOALS |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT.
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
RICHARD M. GUILLARD
No. 5165
Signature
Renewal Date
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R1 | BID ADDENDUM R1 | 12.22.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

SHEET TITLE

## MATERIALS ENLARGEMENT PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1" = 20'-0" | CG, AMP |

SHEET NUMBER

# L1-123
(REV.)

## TREE PLANTING SCHEDULE

| SYMBOL | LATIN NAME | COMMON NAME | SIZE | QTY | FORM | STAKE / ROD | IRRIGATION TYPE |
|---|---|---|---|---|---|---|---|
| AES CAL | AESCULUS CALIFORNICA | CALIFORNIA BUCKEYE | 36" BOX | 6 | MULTI. | TBD AFTER PROCUREMENT | CONTRACTOR IS RESPONSIBLE FOR MANUALLY WATERING TREES BY HAND. DEEP WATER TREES MIN. ONCE PER WEEK DURING ESTABLISHMENT PERIOD; AND PROVIDE GATOR BAGS W/ POTABLE WATER DURING ESTABLISHMENT PERIOD.<br><br>CONTRACTOR TO REVISE WATERING REGIMENT AT SOLE DISCRETION OF LANDSCAPE ARCHITECT AND PROJECT ARBORIST. |
| | CALOCEDRUS DECURRENS | INCENSE CEDAR | 15 GAL | 7 | STD. | TBD AFTER PROCUREMENT | |
| | CEANOTHUS THYRSIFLORUS | BLUEBLOSSOM CEANOTHUS | 15 GAL | 10 | MULTI. | TBD AFTER PROCUREMENT | |
| CER OCC | CERCIS OCCIDENTALIS | WESTERN REDBUD | 24" BOX | 6 | MULTI. | TBD AFTER PROCUREMENT | |
| | HETEROMELES ARBUTIFOLIA | TOYON | 15 GAL | 7 | MULTI. | TBD AFTER PROCUREMENT | |
| JUG HIN | JUGLANS HINDSII | N. CALIFORNIA WALNUT | 48" BOX | 3 | STD. | TBD AFTER PROCUREMENT | |
| R2 LYO FLO | LYONOTHAMNUS FLORIBUNDUS | CATALINA IRONWOOD | 15 GAL | 6 | STD. | TBD AFTER PROCUREMENT | |
| | | | 48" BOX | 1 | STD. | TBD AFTER PROCUREMENT | |
| | PRUNUS ILLICIFOLIA | HOLLYLEAF CHERRY | 15 GAL | 3 | STD. | TBD AFTER PROCUREMENT | |
| QU ENG | QUERCUS ENGELMANNII | ENGELMANN OAK | 36" BOX | 2 | STD. | TBD AFTER PROCUREMENT | |
| QU LOB | QUERCUS LOBATA | VALLEY OAK | 24" BOX | 2 | STD. | TBD AFTER PROCUREMENT | |
| QU OBLO | QUERCUS OBLONGIFOLIA | MEXICAN BLUE OAK | 24" BOX | 1 | STD. | TBD AFTER PROCUREMENT | |
| QU RUG | QUERCUS RUGOSA | NETLEAF OAK | 48" BOX | 1 | STD. | TBD AFTER PROCUREMENT | |
| | | | 36" BOX | 1 | STD. | TBD AFTER PROCUREMENT | |
| QU TOM | QUERCUS TOMENTELLA | ISLAND OAK | 36" BOX | 2 | STD. | TBD AFTER PROCUREMENT | |
| QU COMP | QUERCUS X COMPTONIAE | COMPTON OAK | 48" BOX | 2 | STD. | TBD AFTER PROCUREMENT | |
| | | | 36" BOX | 2 | STD. | TBD AFTER PROCUREMENT | |
| | SAMBUCUS NIGRA | BLACK ELDERBERRY | 15 GAL | 10 | MULTI. | TBD AFTER PROCUREMENT | |

## TREE LEGEND - NEW




## TREE LEGEND - TRANSPLANT




## LANDSCAPE SOIL NOTES

1. SOIL TESTING IS REQUIRED OF BOTH SUB-GRADE AND TOPSOIL CONDITIONS FOR HORTICULTURE SUITABILITY AND DEVELOPMENT OF THE SITE SOILS PLAN.

## PLANTING NOTES

1. LANDSCAPE AREAS INCLUDE TREE MULCH RINGS FOR NEW TREES. PROVIDE MULCH RINGS AT ALL NEW AND EXISTING TREES PER DETAILS.
2. PROVIDE AN ALLOWANCE FOR ADDITIONAL PLANT MATERIAL TO ADDRESS FIELD ADJUSTMENTS DURING CONSTRUCTION AND REPLACEMENT DURING THE WARRANTY PERIOD. REFER TO SPECIFICATIONS FOR ALLOWANCE.

## WELO NOTES

1. REFER TO IRRIGATION DRAWINGS FOR WELO COMPLIANCE.

## UNDERSTORY PLANTING SCHEDULE

| SYMBOL | TAG | SPECIES | SIZE | PERCENT AREA | SPACING | WELO WATER USE | SOILS | IRRIGATION TYPE |
|---|---|---|---|---|---|---|---|---|
| **EXISTING LAWN AREA REHABILITATION** | | | | | | | | |
| | PA-01 | FESTUCA RUBRA 'MOLATE' @ 150 LBS/AC.<br>FESTUCA IDAHOENSIS @ 150 LBS/AC<br>SOURCE: PACIFIC COAST SEED | | | | -- | DRAG SMOOTH TO REMOVE ANY GROUND SQUIRREL HOLES AND ANY IRREGULARITIES TO CREATE CONTINUOUS, EVENLY GRADED SURFACE. TOP DRESS AND OVERSEED ENTIRE AREA. | HAND WATERING OR TEMPORARY IRRIGATION FOR ESTABLISHMENT |
| **STORMWATER TREATMENT PLANTING** | | | | | | | | |
| | PA-02 | ASCLEPIAS CALIFORNICA | 1 Gal | 10% | 24" OC | L | 18" IMPORTED BIOTREATMENT SOIL MIX OVER 12" OF CLASS II PERMABLE BASE ROCK. | SPRAY |
| | | IRIS DOUGLASIA | 1 Gal | 20% | 36" OC | | | |
| | | RIBES SANGUINEUM | 5 Gal | 12 TOTAL | FIELD SITED | | | |
| | | SALVIA SPATHECEA | 1 Gal | 30% | 24" OC | | | |
| | | ZAUSCHNERIA CALIFORNICA | 1 Gal | 40% | 24" OC | | | |
| **REDWOOD REHAB MIX - SHADE** | | | | | | | | |
| SHRUBS | | | | | | | AMENDMENT OF SOILS WITHIN PLANTING PITS. MULCH ALL PLANTED AREAS W/ 3" DEEP ARBORIST CHIPS – SOURCE FROM COUNTY PARKS. | SPRAY |
| | PA-03 | FRANGULA CALIFORNIA 'MOUND SAN BRUNO' | 5 Gal | 25 | FIELD SITED | L | | |
| | | BERBERIS NERVOSA | 5 Gal | 50 | FIELD SITED | M | | |
| | | ARCTOSTAPHYLOS UVA-URSI 'POINT REYES' | 5 Gal | | 24" OC | L | | |
| PERENNIALS | | | | | | | | |
| | PA-03 | POLYSTICHUM MUNITUM | 5 Gal | 40% | 24" OC | M | | |
| | | WOODWARDIA FRIMBIATA | 5 Gal | 60% | 36" OC | M | | |
| **REDWOOD REHAB MIX - SUN** | | | | | | | | |
| SHRUBS | | | | | | | AMENDMENT OF SOILS WITHIN PLANTING PITS. MULCH ALL PLANTED AREAS W/ 3" DEEP ARBORIST CHIPS – SOURCE FROM COUNTY PARKS. | SPRAY |
| R2 | PA-04 | FRANGULA CALIFORNIA 'MOUND SAN BRUNO' | 5 Gal | 30 | FIELD SITED | L | | |
| | | BERBERIS NERVOSA | 5 Gal | 50 | FIELD SITED | M | | |
| | | ARCTOSTAPHYLOS DENSIFLORA 'HOWARD MCMINN' | 10 Gal | 9 | FIELD SITED | L | | |
| | | CEANOTHUS GLORIOSUS 'ANCHOR BAY' | 5 Gal | | 24" OC | L | | |
| | | ARCTOSTAPHYLOS UVA-URSI 'POINT REYES' | 5 Gal | | 24" OC | L | | |
| PERENNIALS | | | | | | | | |
| | PA-04 | POLYSTICHUM MUNITUM | 5 Gal | 60% | 24" OC | M | | |
| | | WOODWARDIA FRIMBIATA | 5 Gal | 40% | 36" OC | M | | |
| **PERENNIAL MEADOW - FORBS** | | | | | | | | |
| | PA-05A | BROMUS CARINATUS @ 12 LBS/AC<br>ELYMUS GLAUCUS @ 10 LBS/AC<br>FESTUCA MICROSTACHYS @ 6 LBS/AC<br>STIPA PULCHRA @ 4 LBS/AC<br>STIPA CERNUA @ 4 LBS/AC<br>ACHILLEA MILLEFOLIUM @ 1 LBS/AC<br>CLARKIA PURPUREA @ 1.5 LBS/AC<br>GRINDELIA STRICTA @ 1.5 LBS/AC<br>ERIOPHYLLUM CONFERTIFLORUM @ 0.5 LBS/AC<br>ESCHSCHOLCIA CALIFORNICA @ 1.5 LBS/AC<br>PHACELIA CALIFORNICA @ 2 LBS/AC<br>COLLINSIA HETEROPHYLLA @ 2 LBS/AC<br>MONARDELLA VILLOSA @ 2 LBS/AC<br>LUPINIS SUCCULENTUS @ 5 LBS/AC<br>SOURCE: PACIFIC COAST SEED | | | | L | CLEAR & GRUB ALL AREAS TO DEPTH OF 2 INCHES BELOW EXISTING GRADE. RAKE AND DRAG ALL REMAINING SOILS AND REMOVE DEBRIS. DO NOT CLEAR AREAS WITHIN THE STRUCTURAL ROOT ZONE OF EXISTING TREES. APPLY PRE-EMERGENT HERBICIDE ACCORDING TO SPECIFICATIONS. FILL ALL GROUND SQUIRREL HOLES AND OTHER DEPRESSIONS FOR SMOOTH CONTINUOUS SURFACE. REPLACE REMOVED MATERIAL WITH SALVAGED AND/OR IMPORT TOPSOIL TO MATCH GRADES PRIOR TO CLEARING AND GRUBING. APPLY TOPDRESS AMENDMENT AND FERTILIZER SPECIFICATIONS PER SOIL TESTING LAB RECOMMENDATIONS. BROADCAST SEED, RAKE IN, MULCH, & WET.<br>MONITOR IRRIGATION SYSTEM, SPRAY DISTRIBUTION, AND SOIL MOISTURE DAILY. | SPRAY |
| **PERENNIAL MEADOW - GRASSLAND** | | | | | | | | |
| | PA-05B | BROMUS CARINATUS @ 12 LBS/AC<br>ELYMUS GLAUCUS @ 10 LBS/AC<br>FESTUCA MICROSTACHYS @ 6 LBS/AC<br>STIPA PULCHRA @ 4 LBS/AC<br>STIPA CERNUA @ 4 LBS/AC<br>CLARKIA PURPUREA @ 1.5 LBS/AC<br>GRINDELIA STRICTA @ 1.5 LBS/AC<br>ESCHSCHOLZIA CALIFORNICA @ 1.5 LBS/AC<br>SOURCE: PACIFIC COAST SEED | | | | L | CLEAR & GRUB ALL AREAS TO DEPTH OF 2 INCHES BELOW EXISTING GRADE. RAKE AND DRAG ALL REMAINING SOILS AND REMOVE DEBRIS. REMOVE AND DISPOSE OF ALL MATERIAL. DO NOT CLEAR AREAS WITHIN THE STRUCTURAL ROOT ZONE OF EXISTING TREES. APPLY PRE-EMERGENT HERBICIDE ACCORDING TO SPECIFICATIONS. FILL ALL GROUND SQUIRREL HOLES AND OTHER DEPRESSIONS FOR SMOOTH CONTINUOUS SURFACE. REPLACE REMOVED MATERIAL WITH SALVAGED AND/OR IMPORT TOPSOIL TO MATCH GRADES PRIOR TO CLEARING AND GRUBING. APPLY TOPDRESS AMENDMENT AND FERTILIZER SPECIFICATIONS PER SOIL TESTING LAB RECOMMENDATIONS. BROADCAST SEED, RAKE IN, MULCH, & WET.<br>MONITOR IRRIGATION SYSTEM, SPRAY DISTRIBUTION, AND SOIL MOISTURE DAILY. | SPRAY |
| **RED FESCUE** | | | | | | | | |
| | PA-06 | FESTUCA RUBRA 'MOLATE' @ 150 LBS/AC<br>FESTUCA IDAHOENSIS @ 150 LBS/AC<br>SOURCE: PACIFIC COAST SEED | | | | L | DRAG SMOOTH TO REMOVE ANY GROUND SQUIRREL HOLES AND ANY IRREGULARITIES TO CREATE CONTINUOUS, EVENLY GRADED SURFACE. OVERSEED ENTIRE AREA. IN LOCATIONS WHERE DEMOLITION LOWERS EXISTING GRADES REPLACE W/ TOPSOIL TO MATCH ADJACENT GRADES. APPLY TOPDRESS AMENDMENT AND FERTILIZER SPECIFICATIONS AND SOIL TESTING LAB RECOMMENDATIONS. BROADCAST SEED, RAKE IN, STRAW MULCH, & WET. ROUGH & FINE GRADE. | HAND WATERING OR TEMPORARY IRRIGATION FOR ESTABLISHMENT |
| **TRANSPLANT TREES** | | | | | | | | |
| | | TAG# / SPEC | | | | | | |
| | | LOCATION OF TREES TO BE TRANSPLANTED | | | | | PREPARE SOIL PITS PER TRANSPLANT SPECIALIST GUIDELINES & APPROVALS BY COUNTY ARBORIST. APPLY AMENDEMENTS AND FERTILIZER SPECIFICATIONS PER SOIL TESTING LAB RECOMMENDATIONS. | HAND WATERING OR TEMPORARY IRRIGATION FOR ESTABLISHMENT |


cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP




PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |

COUNTY OF SAN MATEO - DPW STAMP




SHEET TITLE

UNDERSTORY PLANTING SCHEDULE

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| | CG, AMP |

SHEET NUMBER

L1-600
(REV.)




| UNDERSTORY PLANTING SCHEDULE | | |
|---|---|---|
| SYMBOL | TAG | SEE L1-600 |
| EXISTING LAWN AREA REHABILITATION | | |
| | PA-01 | |
| STORMWATER TREATMENT PLANTING | | |
| | PA-02 | |
| REDWOOD REHAB MIX - SHADE | | |
| SHRUBS | | |
| | PA-03 | |
| PERENNIALS | | |
| | PA-03 | |
| REDWOOD REHAB MIX - SUN | | |
| SHRUBS | | |
| | PA-04 | |
| PERENNIALS | | |
| | PA-04 | |
| PERENNIAL MEADOW - FORBS | | |
| | PA-05A | |
| PERENNIAL MEADOW - GRASSLAND | | |
| | PA-05B | |
| RED FESCUE | | |
| | PA-06 | |
| TRANSPLANT TREES | | |
| TAG# SPEC | | |

1"=50' 0 12.5 25 50 100

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

REGISTERED LANDSCAPE ARCHITECT
CHERI A. QUILLARD
Signature
No. 5165
Renewal Date
11/30/2024
Date
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES
CIVIL
STATE OF CALIFORNIA

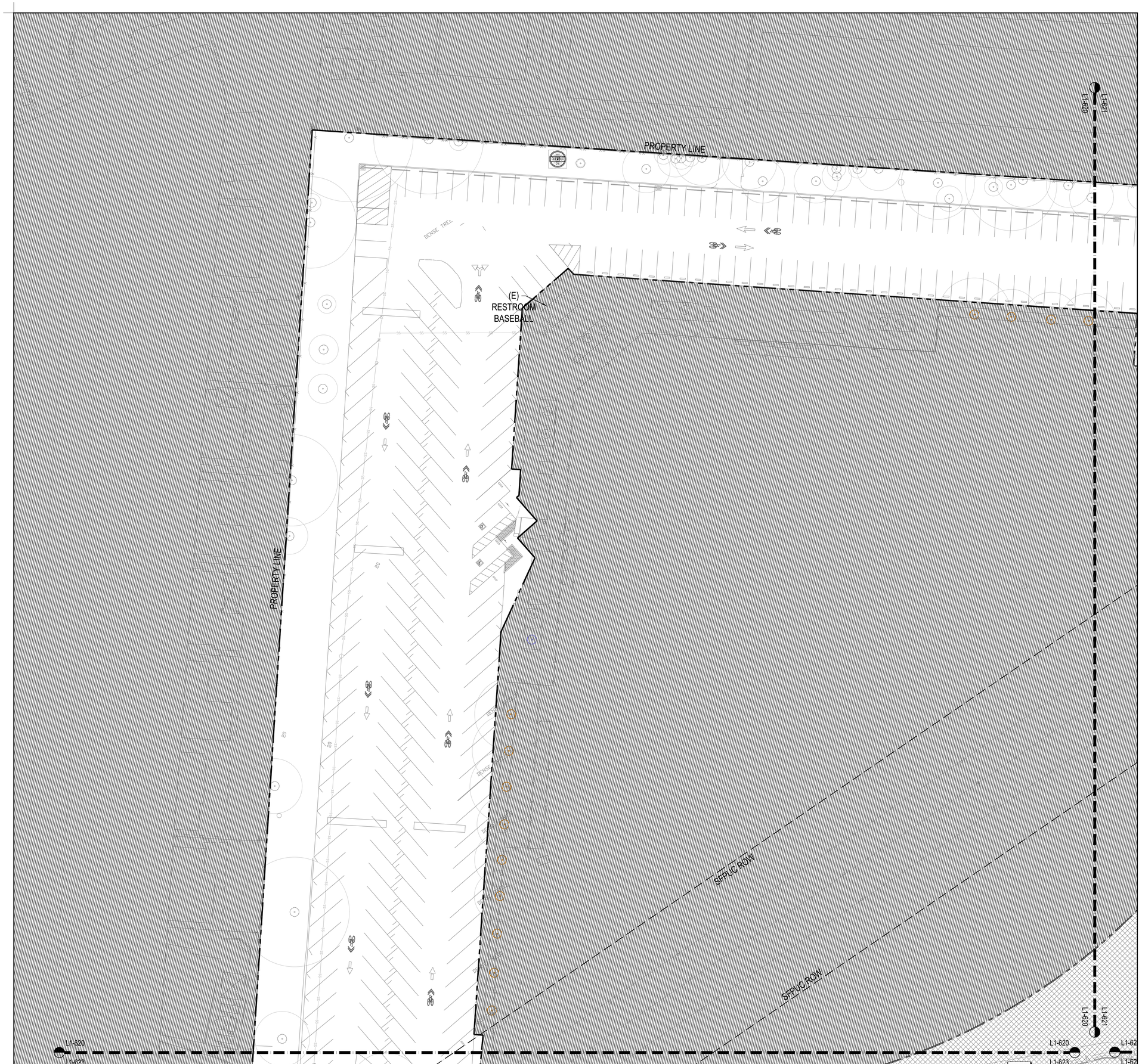
SHEET TITLE

## UNDERSTORY OVERALL PLANTING PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 50'-0" | CG, AMP |

SHEET NUMBER

# L1-610
(REV.)


PROPERTY LINE
PROPERTY LINE
(E) RESTROOM
BASEBALL
SEWER
SEWER
SEWER




| UNDERSTORY PLANTING SCHEDULE | | |
|---|---|---|
| SYMBOL | TAG | SEE L1-600 |
| **EXISTING LAWN AREA REHABILITATION** | | |
| | PA-01 | |
| **STORMWATER TREATMENT PLANTING** | | |
| | PA-02 | |
| **REDWOOD REHAB MIX - SHADE** | | |
| SHRUBS | | |
| | PA-03 | |
| PERENNIALS | | |
| | PA-03 | |
| **REDWOOD REHAB MIX - SUN** | | |
| SHRUBS | | |
| | PA-04 | |
| PERENNIALS | | |
| | PA-04 | |
| **PERENNIAL MEADOW - FORBS** | | |
| | PA-05A | |
| **PERENNIAL MEADOW - GRASSLAND** | | |
| | PA-05B | |
| **RED FESCUE** | | |
| | PA-06 | |

1"=20'-0"

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
JEFFREY GUILLAUME
No. 5199
Signature
Renewal Date
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/24
CIVIL
STATE OF CALIFORNIA

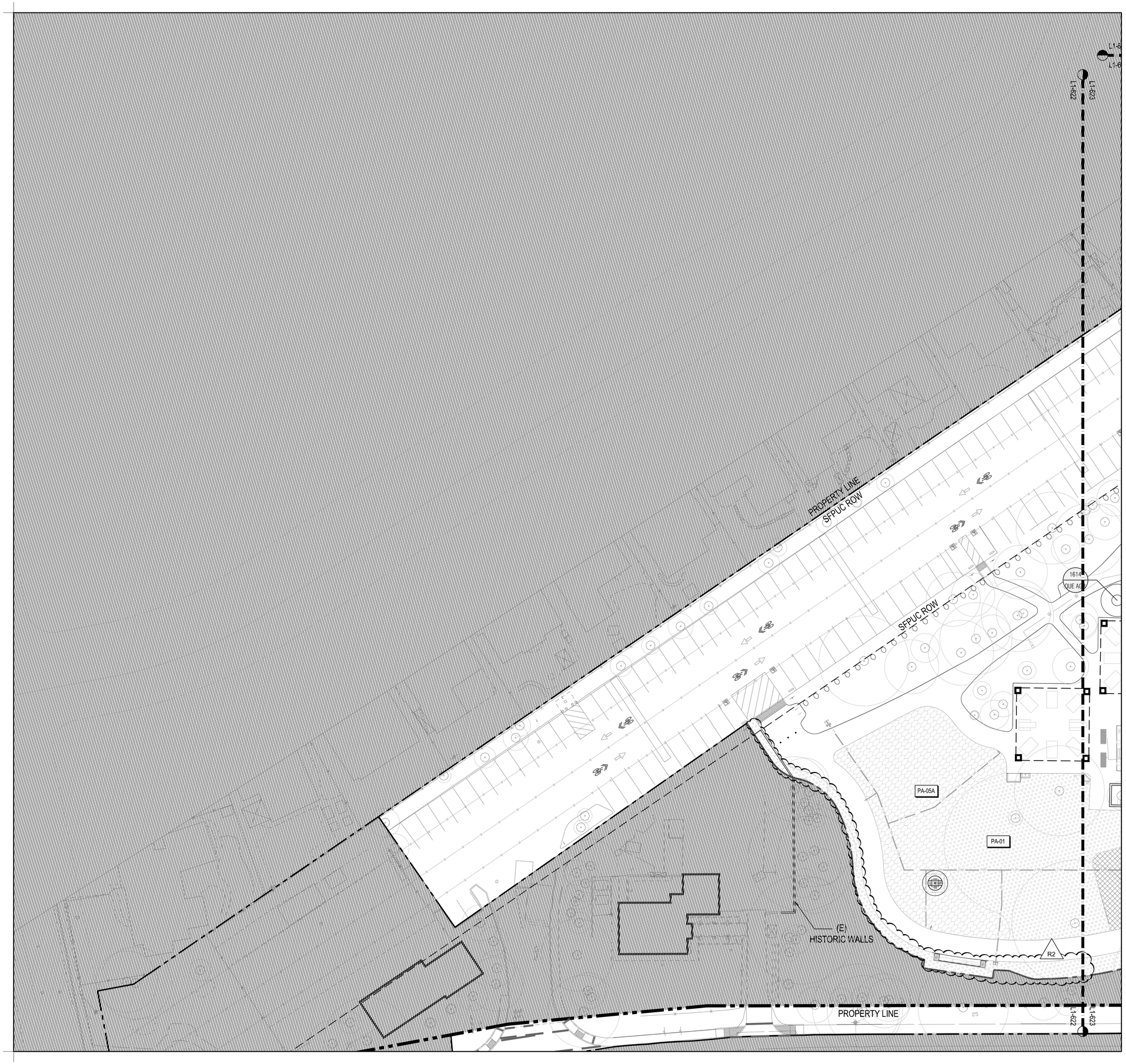
SHEET TITLE

## UNDERSTORY ENLARGEMENT PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 20'-0" | CG, AMP |

SHEET NUMBER

# L1-621
(REV.)




## UNDERSTORY PLANTING SCHEDULE

| SYMBOL | TAG | SEE L1-600 |
|---|---|---|
| **EXISTING LAWN AREA REHABILITATION** | | |
| | PA-01 | |
| **STORMWATER TREATMENT PLANTING** | | |
| | PA-02 | |
| **REDWOOD REHAB MIX - SHADE** | | |
| SHRUBS | | |
| | PA-03 | |
| PERENNIALS | | |
| | PA-03 | |
| **REDWOOD REHAB MIX - SUN** | | |
| SHRUBS | | |
| | PA-04 | |
| PERENNIALS | | |
| | PA-04 | |
| **PERENNIAL MEADOW - FORBS** | | |
| | PA-05A | |
| **PERENNIAL MEADOW - GRASSLAND** | | |
| | PA-05B | |
| **RED FESCUE** | | |
| | PA-06 | |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT.
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

REGISTERED LANDSCAPE ARCHITECT
ANDREW FOLKERTS
No. 5618
Renewal Date 08/31/24
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
No. C 47882
Expires 6-30-25
CIVIL
STATE OF CALIFORNIA

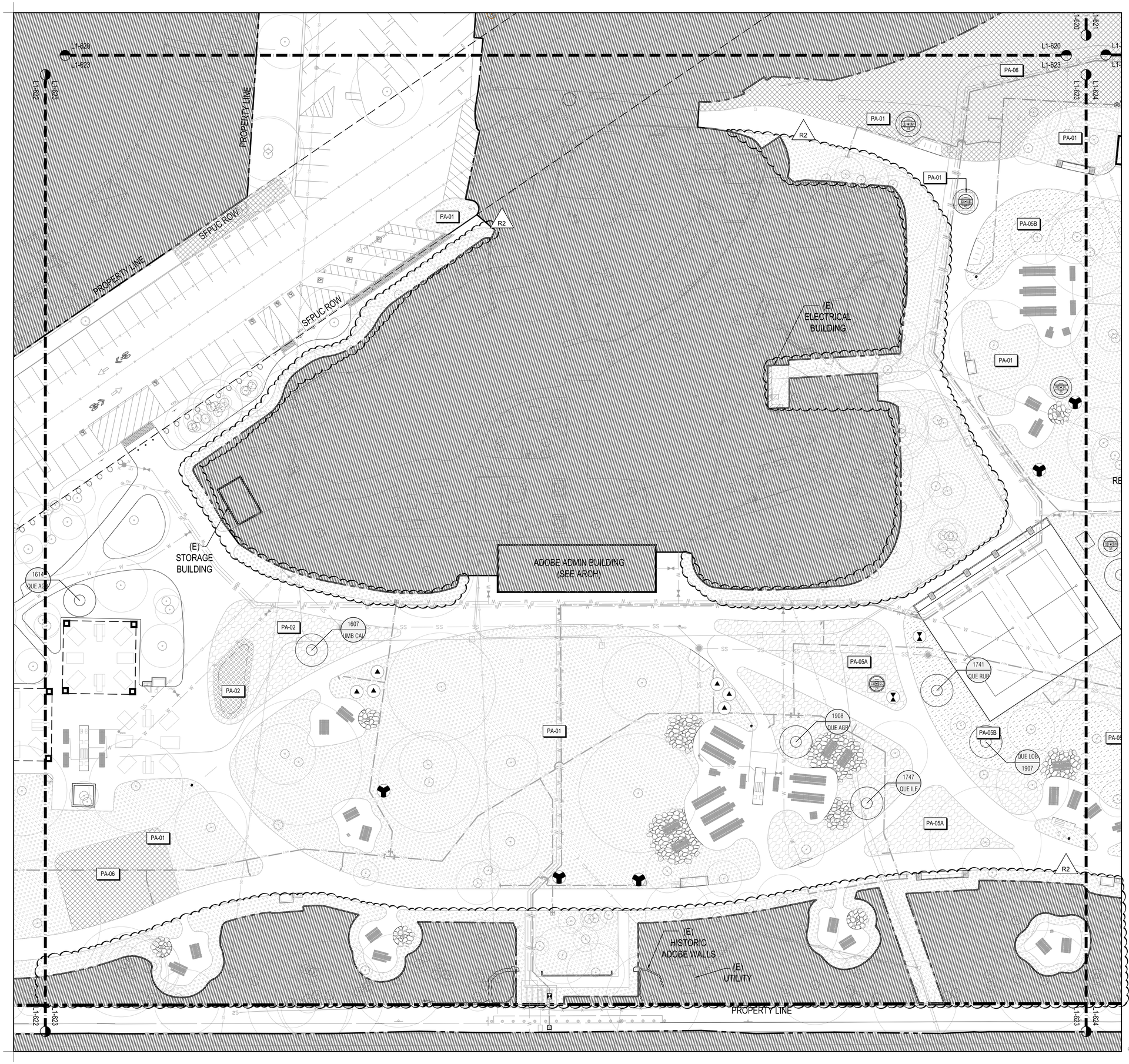
SHEET TITLE

## UNDERSTORY ENLARGEMENT PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 20'-0" | CG, AMP |

SHEET NUMBER

# L1-622
(REV.)




| UNDERSTORY PLANTING SCHEDULE | | |
|---|---|---|
| SYMBOL | TAG | SEE L1-600 |
| EXISTING LAWN AREA REHABILITATION | | |
| | PA-01 | |
| STORMWATER TREATMENT PLANTING | | |
| | PA-02 | |
| REDWOOD REHAB MIX - SHADE | | |
| SHRUBS | | |
| | PA-03 | |
| PERENNIALS | | |
| | PA-03 | |
| REDWOOD REHAB MIX - SUN | | |
| SHRUBS | | |
| | PA-04 | |
| PERENNIALS | | |
| | PA-04 | |
| PERENNIAL MEADOW - FORBS | | |
| | PA-05A | |
| PERENNIAL MEADOW - GRASSLAND | | |
| | PA-05B | |
| RED FESCUE | | |
| | PA-06 | |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
CHRISTOPHER GUILLEBEAU
No. 6065
Signature
Renewal Date: 08/31/2024
STATE OF CALIFORNIA

PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/24
CIVIL
STATE OF CALIFORNIA

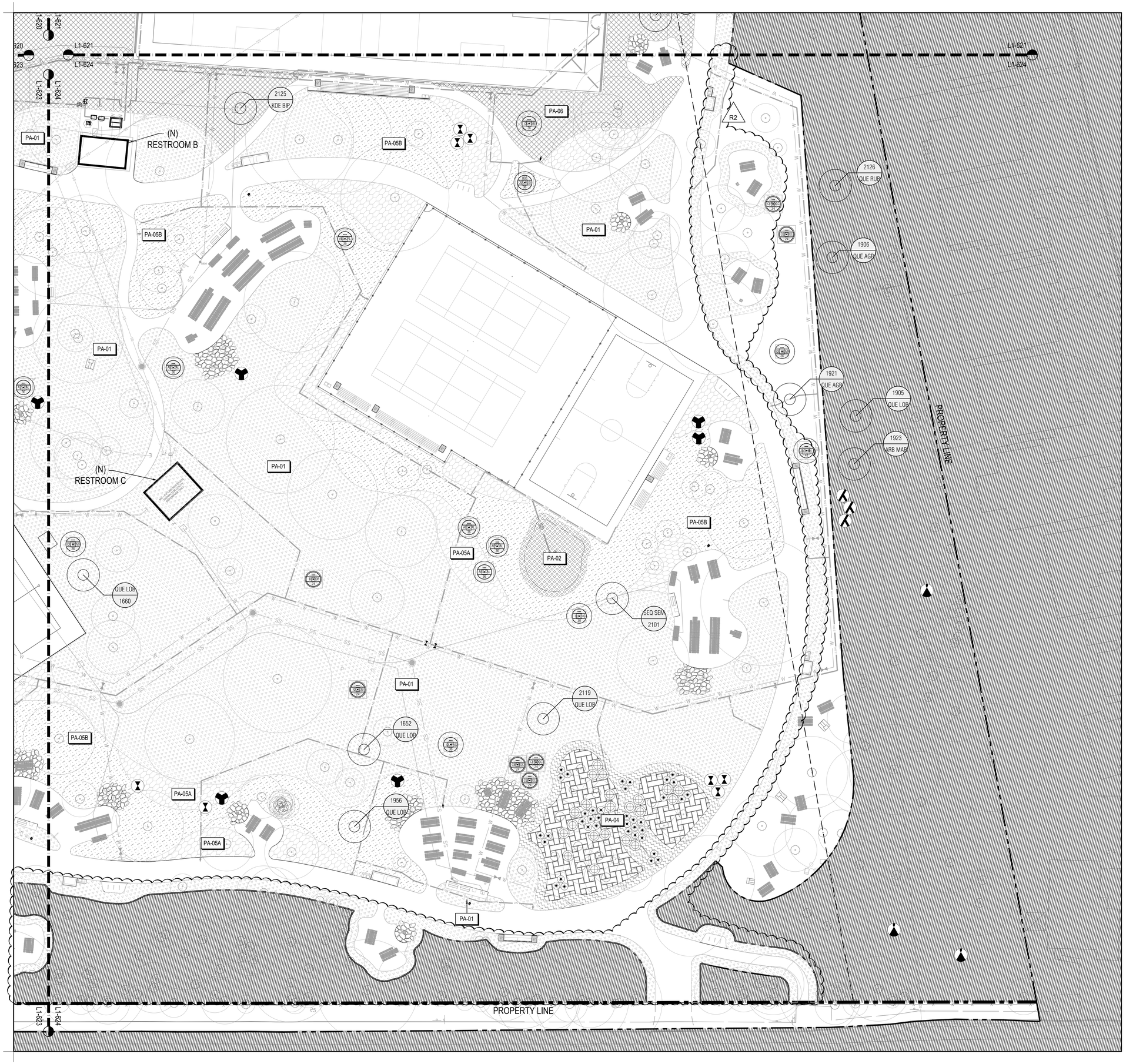
SHEET TITLE

UNDERSTORY ENLARGEMENT PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 20'-0" | CG, AMP |

SHEET NUMBER

L1-623
(REV.)




| UNDERSTORY PLANTING SCHEDULE | | |
|---|---|---|
| SYMBOL | TAG | SEE L1-600 |
| EXISTING LAWN AREA REHABILITATION | | |
| | PA-01 | |
| STORMWATER TREATMENT PLANTING | | |
| | PA-02 | |
| REDWOOD REHAB MIX - SHADE | | |
| SHRUBS | | |
| | PA-03 | |
| PERENNIALS | | |
| | PA-03 | |
| REDWOOD REHAB MIX - SUN | | |
| SHRUBS | | |
| | PA-04 | |
| PERENNIALS | | |
| | PA-04 | |
| PERENNIAL MEADOW - FORBS | | |
| | PA-05A | |
| PERENNIAL MEADOW - GRASSLAND | | |
| | PA-05B | |
| RED FESCUE | | |
| | PA-06 | |

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

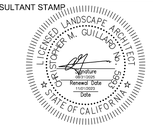
SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP




PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP



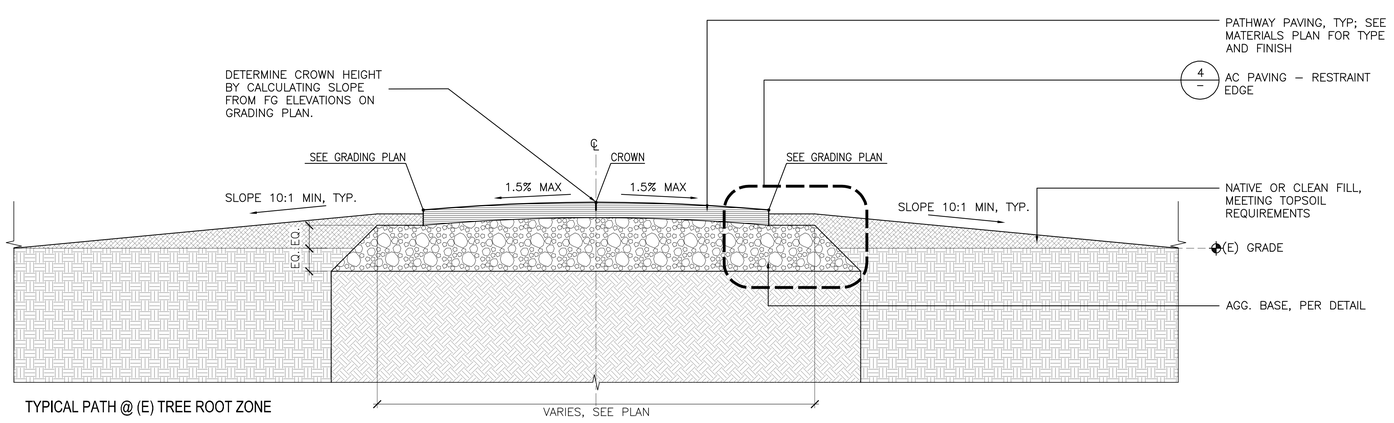

SHEET TITLE

## UNDERSTORY ENLARGEMENT PLAN

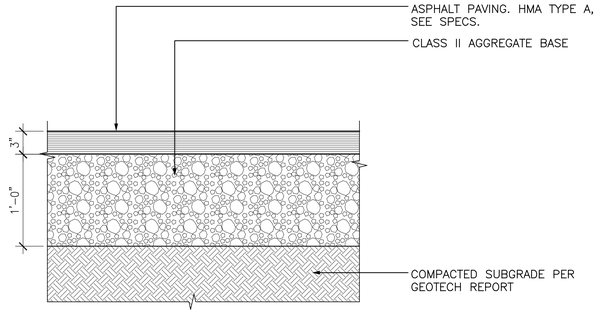
| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| 1"= 20'-0" | CG, AMP |

SHEET NUMBER

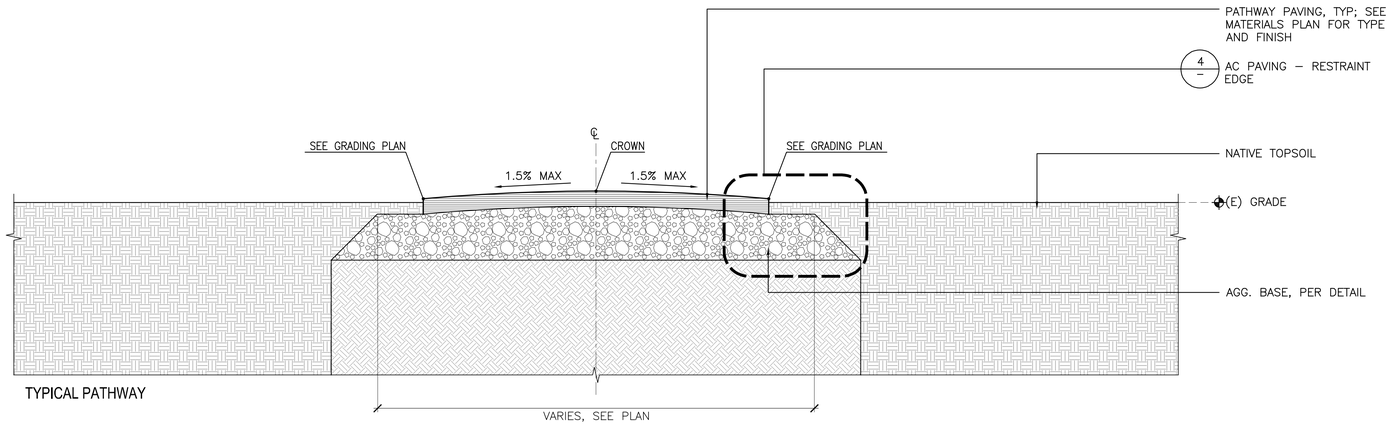
# L1-624
(REV.)




TYPICAL PATH @ (E) TREE ROOT ZONE

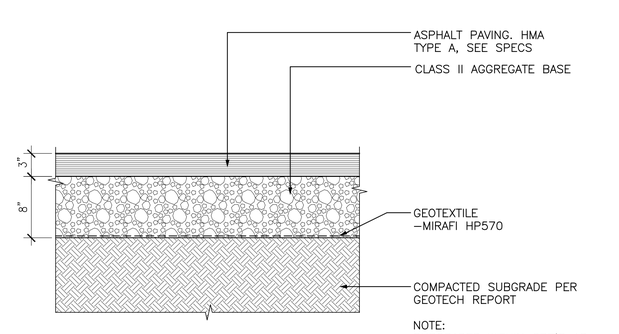



3 | AC PAVING - VEHICULAR | SCALE: 1 1/2"=1'-0"



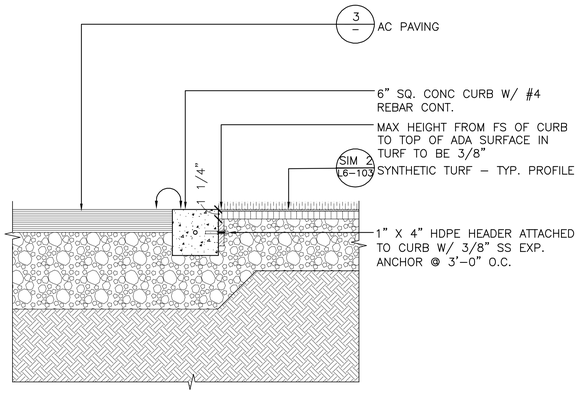

TYPICAL PATHWAY

6 | PATHWAY GRADING SECTION | SCALE: 1 1/2"=1'-0"



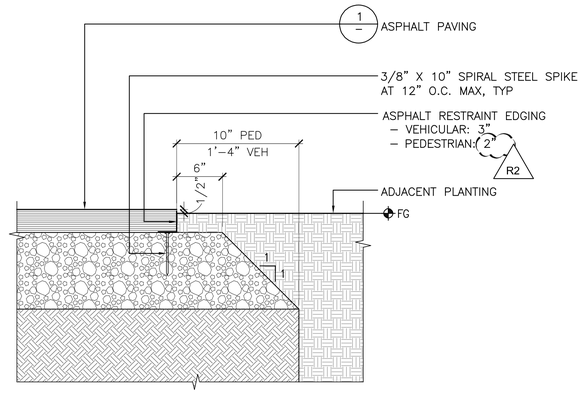

NOTE:
SUBGRADES WITHIN CRZ'S AS IDENTIFIED ON THE TREE PROTECTION PLANS SHALL BE SCARIFIED A MAXIMUM OF 2–3 IN.

2 | AC PAVING AT EXISTING TREE - VEHICULAR | SCALE: 1 1/2"=1'-0"



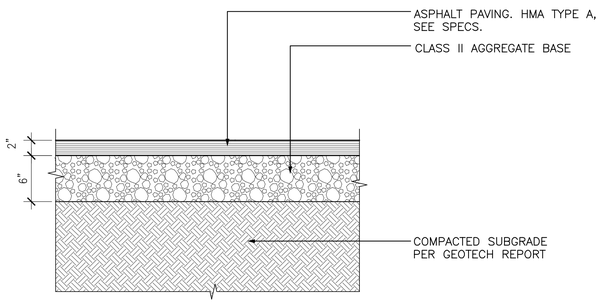

NOTE:
1. LANDSCAPE ARCHITECT TO REVIEW CURB LAYOUT PRIOR TO INSTALLATION AND AFTER INSTALLATION BEFORE ASPHALT PLACEMENT

5 | AC PAVING AT SYNTHETIC TURF AT VOLLEYBALL COURT | SCALE: 1 1/2"=1'-0"




NOTE:
1. LANDSCAPE ARCHITECT TO REVIEW EDGING LAYOUT PRIOR TO INSTALLATION AND AFTER INSTALLATION BEFORE ASPHALT PLACEMENT

4 | AC PAVING - RESTRAINT EDGING | SCALE: 1 1/2"=1'-0"




1 | AC PAVING - PEDESTRIAN | SCALE: 1 1/2"=1'-0"

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT
JENNIFER M. GUILLARD
No. 5765
Signature
Date
Renewal Date
STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER
ANN MADER STILLMAN
C 47882
EXPIRES 12/31/2024
CIVIL
STATE OF CALIFORNIA

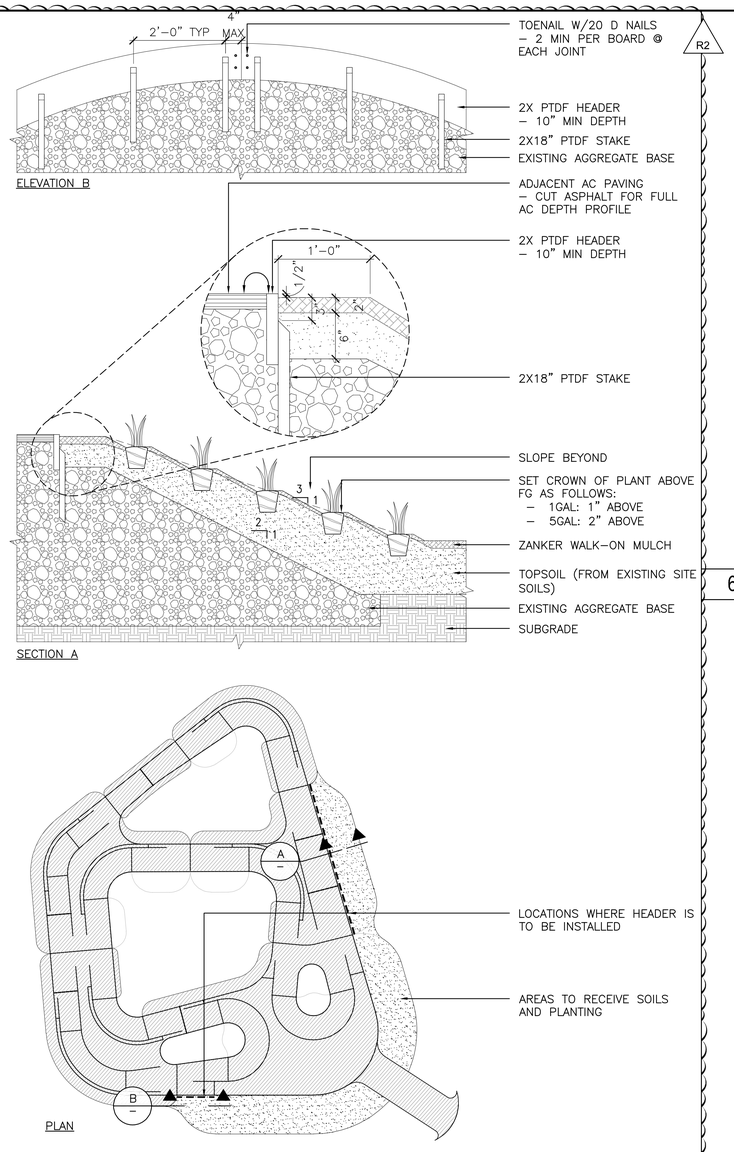
SHEET TITLE

## PAVING DETAILS

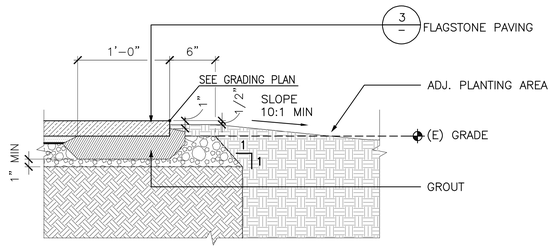
| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| | CG, AMP |

SHEET NUMBER

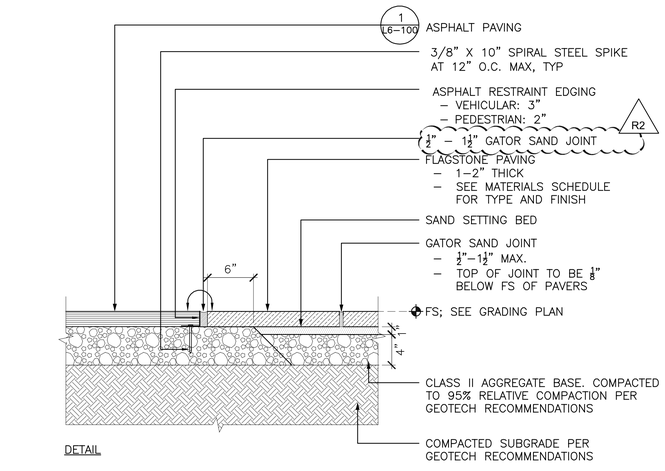
# L6-100
(REV.)




8 PUMP TRACK HEADER AND PLANTING — SCALE: 3/4"=1'-0"

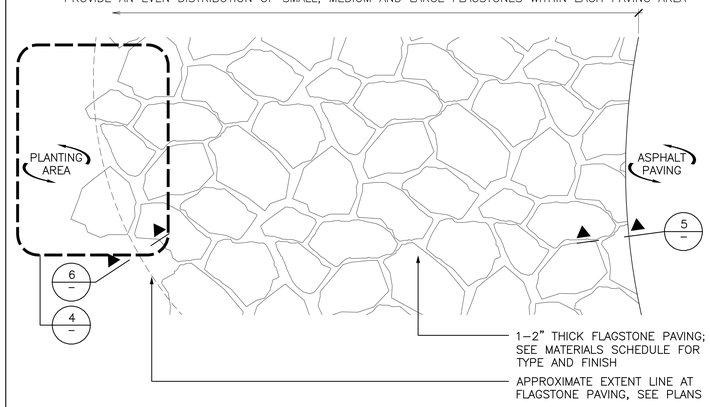



6 FLAGSTONE PAVING AT PLANTING — SCALE: 1 1/2"=1'-0"

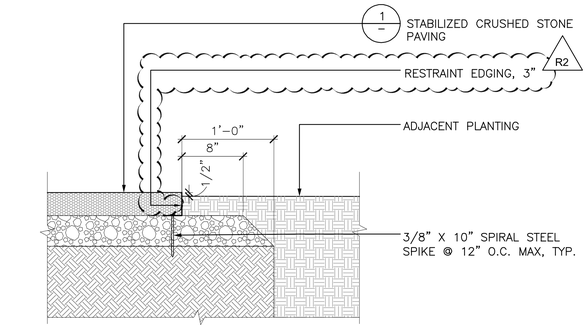



5 FLAGSTONE PAVING AT AC PAVING — SCALE: 1 1/2"=1'-0"

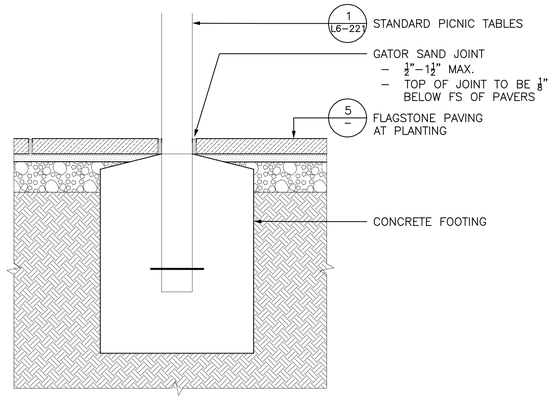
FLAGSTONE SIZES:
SMALL: MIN. 12"X 18" (+/– 25% OF AREA)
MEDIUM: MIN. 18" X 24" (+/– 50% OF AREA)
LARGE: MIN. 24" X 36" (+/– 25% OF AREA)



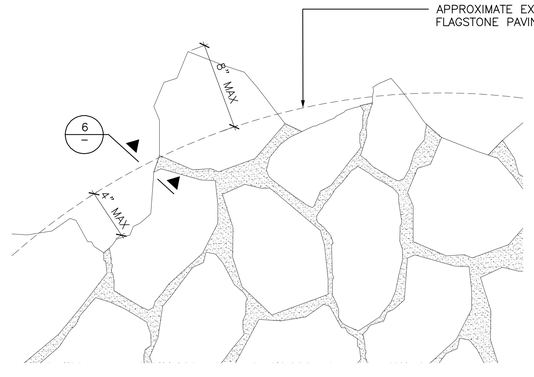

3 FLAGSTONE PAVING LAYOUT - TYP — SCALE: NTS



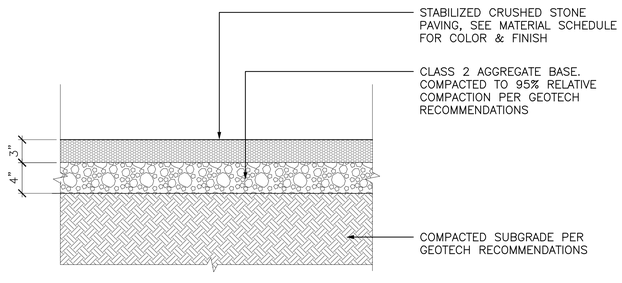

1 STABILIZED CRUSHED STONE PAVING — SCALE: 1 1/2"=1'-0"




7 FLAGSTONE AT PICNIC TABLE FOOTING — SCALE: 1 1/2"=1'-0"




4 FLAGSTONE PAVING LAYOUT AT PLANTING EDGE — SCALE: NTS




1 STABILIZED CRUSHED STONE PAVING — SCALE: 1 1/2"=1'-0"

cmg
Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com

OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

# FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

CONSULTANT STAMP

LICENSED LANDSCAPE ARCHITECT — JENNIFER M. GUILLARD — No. 5362 — Signature — Renewal Date — Date — STATE OF CALIFORNIA

PHASE

## PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |
| R2 | BID ADDENDUM R2 | 01.19.24 |
| | | |
| | | |
| | | |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER — ANN MADER STILLMAN — NO. C 47882 — EXPIRES — CIVIL — STATE OF CALIFORNIA

SHEET TITLE

## PAVING DETAILS

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| | CG, AMP |

SHEET NUMBER

# L6-101
(REV.)

CORNERSTONE EARTH GROUP

| | |
|---|---|
| Date: | January 16, 2024 |
| Project No.: | 255-2-1 |
| Prepared For: | Mr. Mike Wassermann<br>**CAPITAL PROGRAM MANAGEMENT, INC.**<br>495 Seaport Court, Suite 103<br>Redwood City, California 94063 |
| Re: | Geotechnical Results<br>Flood Park Pavement Evaluation<br>215 Bay Road<br>Menlo Park, California |

Dear Mr. Wassermann:

As requested, this letter presents the results of our findings and laboratory results for the above-referenced project. Our services were performed in accordance with our agreement dated December 19, 2023. As you know, we have previously performed a geotechnical investigation for the site and presented the findings and recommendations in our report titled "Geotechnical Investigation: Reimagine Flood Park" dated June 27, 2022.

## Project Background

The project includes the modernization of Flood Park which is located at 215 Bay Road, Menlo Park, California. The modernization includes new asphalt paving and information on the existing aggregate base (AB) is needed for the bidding process. This letter discusses the thickness and quality of the existing AB and provides recommendations for reuse in future improvements. A map of the locations of our explorations is attached to this letter.

## Site Observations

### Exploration Plan

Field exploration consisted of nine pavement cores and hand augers performed on January 4, 2024, with wet-diamond coring equipment and hand auger drilling equipment. The hand augers were advanced to the bottom of the bottom of the existing pavements. In addition to the cores, we also collected a composite bulk sample of the existing AB from the nine core locations and a bulk of the existing AB found adjacent to core location C-9. The pavement cores were patched with quick-setting concrete. The approximate locations of our core and hand auger locations are attached at the end of the letter.

### Pavement Core and Section

The existing pavement section was measured at each core location. The asphalt concrete (AC) section thickness was variable between 2 to 4½ inches and the AB thickness varied from 1½ to 5½ inches. The AB encountered in the core locations C-1 to C-9 was mainly a brown AB with

course subangular material. In C-9, the AB encountered appeared to be a mixture of the previously encountered brown AB and a black AB. The black AB material was also found adjacent to core C-9 in the exposed end of the pavement trail. The structural section at each location is summarized below in Table 1.

**Table 1: Summary of Slab Cores and Sampling**

| Location # | AC Thickness (inches) | AB Thickness (inches) |
|---|---|---|
| C-1 | 2 | 5 |
| C-2 | 2 | 3 |
| C-3 | 2½ | 5½ |
| C-4 | 3 | 4 |
| C-5 | 3½ | 2½ |
| C-6 | 3 | 1½ |
| C-7 | 4½ | 4½ |
| C-8 | 2½ | 5 |
| C-9 | 2½ | 4½ |

## Laboratory Testing Results and Recommendations

The laboratory program included two Caltrans Class II Aggregate Base Specification Tests on the existing aggregate base bulk samples collected from the composite of cores and from the bulk adjacent to C-9. The test results are included in this letter. Based on the test results, it appears the composite bulk AB sample from cores C-1 to C-9 and bulk sample collected adjacent to core C-9 do not meet Caltrans Class II specifications for reuse as Class II AB.

The AB material can be used as engineered fill at the site but should not be reused as Class II AB in new pavement structural sections.

## Closure

We hope this provides the information you need at this time. Recommendations presented in this letter have been prepared for the sole use of Capital Program Management, Inc. specifically for the property at 215 Bay Road in Menlo Park, California. Our professional services were performed and our findings were prepared in accordance with generally accepted geotechnical engineering principles and practices at this time and location. No warranties are either expressed or implied.

If you have any questions or need any additional information from us, please call and we will be glad to discuss them with you.

Sincerely,

**Cornerstone Earth Group, Inc.**




Diana Lin, P.E.
Project Engineer

Erin L. Steiner, P.E., G.E.
Seinor Principal Engineer

DL:ELS

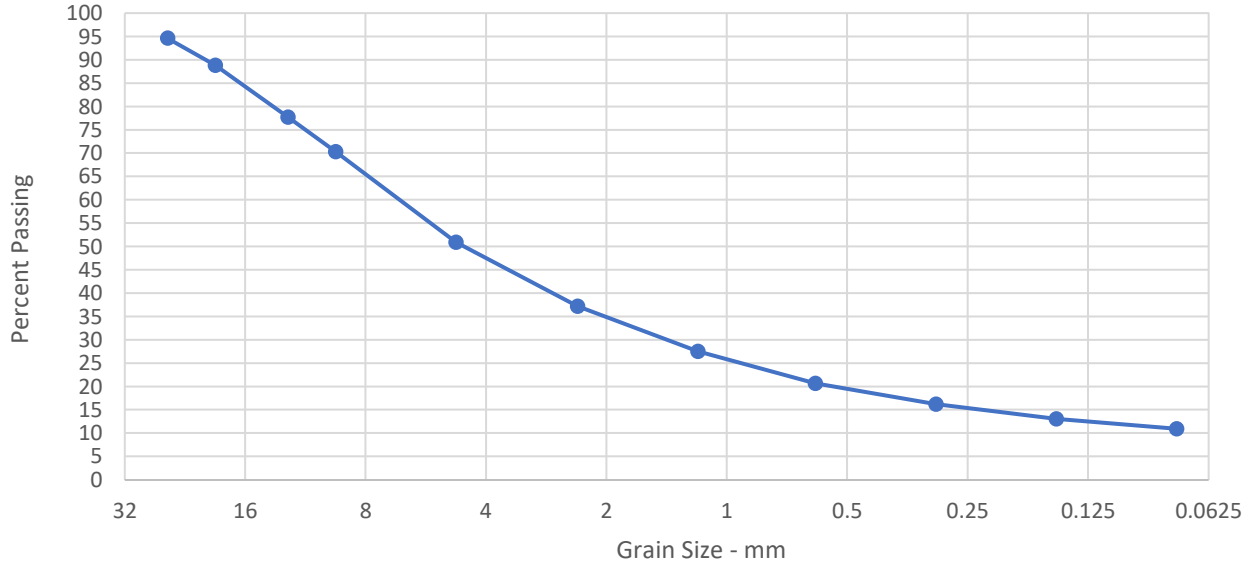
Copies: Addressee (1 by email)
Attachments: Field Exploration Map
Caltrans Class II Specification Test Results


Flood Park Site Map
215 Bay road, Menlo Park
Legend
Core Locations (9 total)
C-1
C-2
C-3
C-4
C-5
C-6
C-7
C-8
C-9
215 Bay Rd
Bayshore Fwy
Hedge Rd
Oakhurst Pl
Greenwood Dr
Del Norte Ave
Iris Ln
Bay Rd
Greenoaks Dr
Google Earth
800 ft
N

# Caltrans Class II Aggregate Base Test Report

CT 202, CT 217, CT 229, CT 301

| | | | |
|---|---|---|---|
| Project Name: | Flood Park Pavement Eval. (1462-1-2) | Sample Date: | 1/4/2024 |
| Project Number: | 24-1688 | Test Date: | 1/11/2024 |
| Sample Location: | Composite of C-1 to C-9 | Report Date: | 1/12/2024 |
| Client Project : | -- | Sampled By: | CEG |
| Project Location : | -- | Lab Number: | M-2249 |
| Material: | Native AB Material | | |




| Sieve Size (in.) | Opening (mm) | % Passing | Caltrans Spec. | Pass/ Fail |
|---|---|---|---|---|
| 1 | 25 | 95 | 100 | **Fail** |
| 3/4 | 19 | 89 | 87 - 100 | **Pass** |
| 1/2 | 12.5 | 78 | -- | **--** |
| 3/8 | 9.5 | 70 | -- | **--** |
| #4 | 4.75 | 51 | 30 - 65 | **Pass** |
| #8 | 2.36 | 37 | -- | **--** |
| #16 | 1.18 | 27 | -- | **--** |
| #30 | 0.6 | 21 | 5 - 35 | **Pass** |
| #50 | 0.3 | 16 | -- | **--** |
| #100 | 0.15 | 13 | -- | **--** |
| #200 | 0.075 | 11 | 0 - 12 | **Pass** |

***Material tested meets the minimum requirements of Class II Aggregate Base per 2018 Caltrans Standard Specifications, Section 26-1.02B.**

| Sand Equivalent | Caltrans Spec. | Pass/Fail |
|---|---|---|
| 21 | 22 min. | **FAIL** |

| Durability Index | Caltrans Spec. | Pass/Fail |
|---|---|---|
| 20 | 35 min. | **FAIL** |

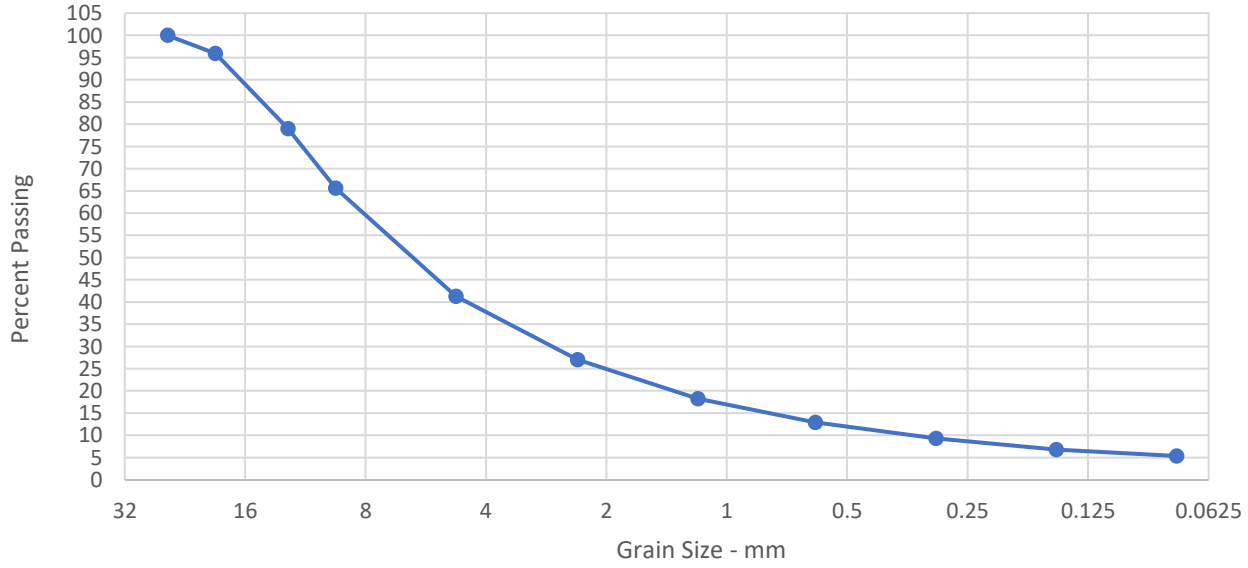
| R-Value | Caltrans Spec. | Pass/Fail |
|---|---|---|
| 33 | 78 | **FAIL** |

Suzanne Morgan
Laboratory Manager

# Caltrans Class II Aggregate Base Test Report

CT 202, CT 217, CT 229, CT 301

| | | | |
|---|---|---|---|
| Project Name: | Flood Park Pavement Eval. (1462-1-2) | Sample Date: | 1/4/2024 |
| Project Number: | 24-1688 | Test Date: | 1/11/2024 |
| Sample Location: | End of sidewalk of C-9 and also found under C-9 | Report Date: | 1/12/2024 |
| Client Project : | -- | Sampled By: | CEG |
| Project Location : | -- | Lab Number: | M-2250 |
| Material: | Recycled AB Material | | |




| Sieve Size (in.) | Opening (mm) | % Passing | Caltrans Spec. | Pass/ Fail |
|---|---|---|---|---|
| 1 | 25 | 100 | 100 | **Pass** |
| 3/4 | 19 | 96 | 87 - 100 | **Pass** |
| 1/2 | 12.5 | 79 | -- | **--** |
| 3/8 | 9.5 | 66 | -- | **--** |
| #4 | 4.75 | 41 | 30 - 65 | **Pass** |
| #8 | 2.36 | 27 | -- | **--** |
| #16 | 1.18 | 18 | -- | **--** |
| #30 | 0.6 | 13 | 5 - 35 | **Pass** |
| #50 | 0.3 | 9 | -- | **--** |
| #100 | 0.15 | 7 | -- | **--** |
| #200 | 0.075 | 5 | 0 - 12 | **Pass** |

***Material tested meets the minimum requirements of Class II Aggregate Base per 2018 Caltrans Standard Specifications, Section 26-1.02B.**

| Sand Equivalent | Caltrans Spec. | Pass/Fail |
|---|---|---|
| 49 | 22 min. | **PASS** |

| Durability Index | Caltrans Spec. | Pass/Fail |
|---|---|---|
| 35 | 35 min. | **PASS** |

| R-Value | Caltrans Spec. | Pass/Fail |
|---|---|---|
| 72 | 78 | **FAIL** |

Suzanne Morgan
Laboratory Manager

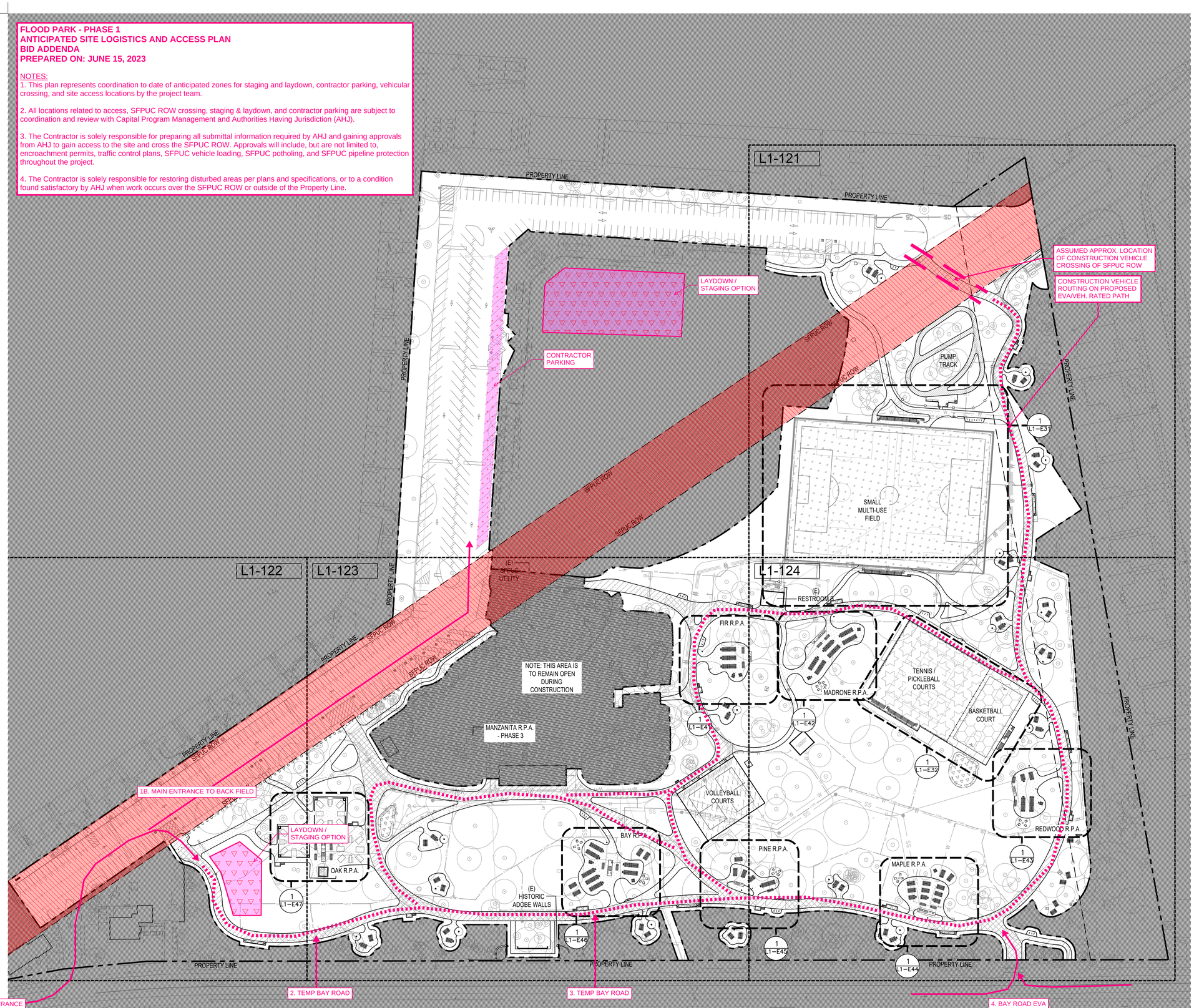
**FLOOD PARK - PHASE 1**
**ANTICIPATED SITE LOGISTICS AND ACCESS PLAN**
**BID ADDENDA**
**PREPARED ON: JUNE 15, 2023**

NOTES:
1. This plan represents coordination to date of anticipated zones for staging and laydown, contractor parking, vehicular crossing, and site access locations by the project team.

2. All locations related to access, SFPUC ROW crossing, staging & laydown, and contractor parking are subject to coordination and review with Capital Program Management and Authorities Having Jurisdiction (AHJ).

3. The Contractor is solely responsible for preparing all submittal information required by AHJ and gaining approvals from AHJ to gain access to the site and cross the SFPUC ROW. Approvals will include, but are not limited to, encroachment permits, traffic control plans, SFPUC vehicle loading, SFPUC potholing, and SFPUC pipeline protection throughout the project.

4. The Contractor is solely responsible for restoring disturbed areas per plans and specifications, or to a condition found satisfactory by AHJ when work occurs over the SFPUC ROW or outside of the Property Line.




## CSM 2101 - MATERIALS SCHEDULE

### PAVING

| TAG | SYMBOL | TYPE |
|---|---|---|
| P1 | | ASPHALT PAVING – PEDESTRIAN |
| P2 | | ASPHALT PAVING – VEHICULAR |
| P3 | | ASPHALT PAVING – VEHICULAR AT TREE ZONE |
| P4 | | DETECTABLE WARNING STRIPS |
| P5 | | STABILIZED CRUSHED STONE PAVING |
| P6 | | TENNIS COURT PAVING AND SURFACING |
| P7 | | BASKETBALL COURT PAVING AND SURFACING |
| P8 | | PUMP TRACK |
| P9 | | VOLLEYBALL SAND |
| P10 | | CONCRETE CURB |
| P11 | | SYNTHETIC TURF |
| P12 | | FLAGSTONE PAVING |
| P13 | | GRAVEL MULCH |
| P14 | | ATHLETIC FIELD CONC. PERIMETER CURB |

### SITE ELEMENTS

| TAG | SYMBOL | TYPE |
|---|---|---|
| S1 | | SPECTATOR SEATING |
| S2 | | DRINKING FOUNTAIN |
| S3 | | WASTE RECEPTACLE |
| S4 | | BENCH |
| S5 | | ADIRONDACK CHAIRS AND RECLAIMED LOG TABLE |
| S6 | | BIKE RACKS |
| S7 | | VEHICULAR CHAINLINK GATE |
| S8 | | WIFI POLE |
| S9 | | REMOVABLE BOLLARDS |
| S10 | | |
| S11 | | |
| S12 | | |
| S13 | | PUMP TRACK FENCE |
| S14 | | TREE BRANCH BRACES |

### PICNIC AREAS

| TAG | SYMBOL | TYPE |
|---|---|---|
| A1 | | OAK PICNIC AREA STRUCTURES |
| A2 | | REFURBISHED PICNIC TABLES (OAK PICNIC AREA) |
| A3 | | KIDS PICNIC TABLE |
| A4 | | STD. 8' PICNIC TABLE |
| A5 | | STD. 10' PICNIC TABLE |
| A6 | | NEW PEDESTAL GRILLS |
| A7 | | LARGE COUNTERTOP GRILLS |
| A8 | | SMALL COUNTERTOP GRILLS |
| A9 | | SINKS |
| A10 | | GRILL COUNTERS |
| A11 | | WOOD COUNTERS |
| A12 | | DUMPSTERS AND ENCLOSURES |
| A13 | | PIÑATA HANGERS (N.I.C) |

### SPORTS COURT/FIELD ELEMENTS

| TAG | SYMBOL | TYPE |
|---|---|---|
| F1 | | BASKETBALL RIM, BACKBOARD, POLE AND NYLON NET |
| F2 | | TENNIS COURT FENCE |
| F3 | | TENNIS COURT NET |
| F4 | | VOLLEYBALL NET, POLE & RATCHET, J-BOLT, AND ANCHOR |
| F5 | | STORAGE SHED |
| F6 | | S12 SOCCER GOALS |

1"=50' 0 12.5 25 50 100 N


cmg Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT
SAN MATEO COUNTY
PARKS DEPARTMENT
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME
FLOOD PARK
215 RAY RD.
MENLO PARK, CA 94025

BID ADDENDA EXHIBIT

PHASE
PHASE 1
CONSTRUCTION
DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |

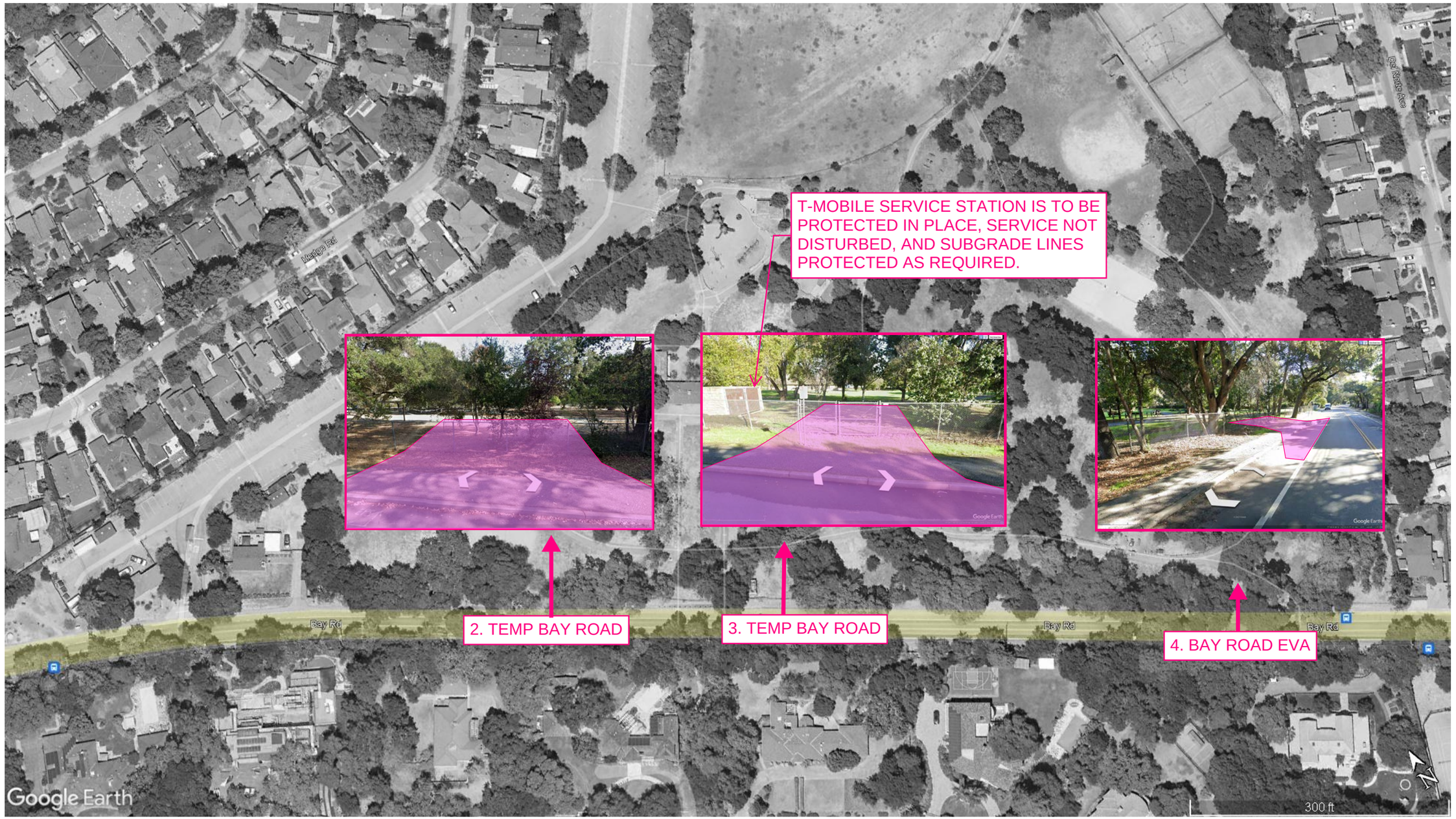
KEY PLAN

SHEET TITLE
LANDSCAPE
MATERIALS PLAN

PROJECT CSM 2101
DRAWN BY AFO, JY, NA, AMP
SCALE
CHECKED BY CG, AMP

SHEET NUMBER
L1-110

# FLOOD PARK - PHASE 1 - BAY ROAD EXHIBIT



# FLOOD PARK - PHASE 1

## PUMP TRACK PUBLIC ACCESS DURING CONSTRUCTION

## *SITE EXHIBIT*

**NOTES:**

1. PUMP TRACK IS TO REMAIN OPEN TO THE PUBLIC FOR THE DURATION OF CONSTRUCTION, CONSISTENT WITH PUBLICY POSTED PARK OPEN HOURS.

2. CONTRACTOR HAS THE OPTION TO CLOSE PARK FOR A MAXIMUM OF 3 WEEKS TO COMPLETE WORK.
- PARK CLOSURE IS ALLOWED WITH COUNTY APPROVAL TO COMPLETE NECESSARY WORK RELATED TO PARKING, PATHWAYS, OR OTHER SITE IMPROVEMENTS.
- CLOSEURE MUST BE COORDINATED AND APPROVED BY THE COUNTY.
- THE COUNTY REQUIRES A MINIMUM NOTICE OF 3 WEEKS AND WILL PROVIDE NOTICE OF APPROVAL WITHIN 1 WEEK.

3. CONTRACTOR IS TO MAINTAIN 20 PARKING STALLS AVAILABLE FOR PUBLIC PARKING TO ACCESS THE PUMP TRACK FOR THE DURATION OF CONSTRUCTION WHICH ARE CLEARLY DESIGNATED.

4. CONTRACTOR IS REQUIRED TO ENSURE THAT MINIMUM (2) STALLS ARE AVAILABLE FOR ACCESSIBLE PARKING AT ALL TIMES. ACCESSSIBLE STALLS MAY BE EITHER A) EXISTING ACCESSIBLE STALLS; B) NEWLY INSTALLED, COMPLETED, AND PUNCHED ACCESSIBLE PARKING; C) TEMPORARY STALLS WHERE (2) STANDARD STALLS ARE DESIGNATED FOR ACCESIBLE PARKING EACH.

5. WHERE ACCESSIBLE STALLS ARE NOT CONTIGUOUS WITH TYPICAL PARKING STALLS, CONTRACTOR IS RESPONSIBLE FOR SIGNING STALLS AND PROVIDING ALL USERS WITH ACCESS.

6. CONTRACTOR IS TO PROVIDE CONTINUOUS FENCING PER EXHIBIT AND TEMPORARY SITE FENCING SPECIFICATIONS FOR THE ENTIRE PATH OF PEDESTRIAN ACCESS TO THE PUMP TRACK. WHEREVER CONTRACTOR REQUIRES A SHARED PATH OF TRAVEL ON PEDESTRIAN PATHWAY, SECURED GATES ARE REQUIRED.

7. CONTRACTOR AND ALL SUBCONSULTANTS ARE REQUIRED TO WALK ALL CONSTRUCTION VEHICLES AND EQUIPMENT WHEN WITHIN PUBLICLY ACCESSED PORTIONS OF THE PARKING LOT.

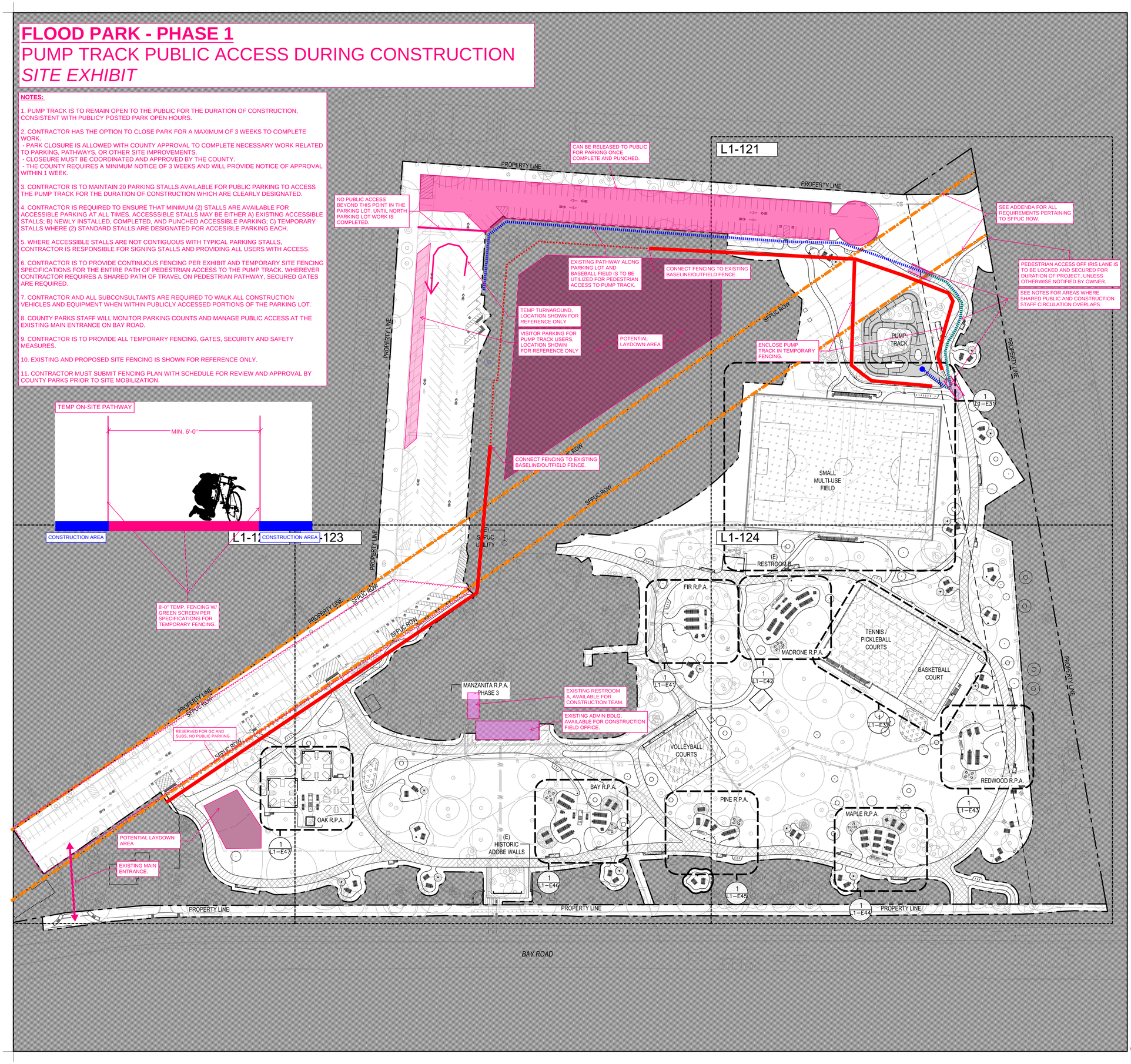
8. COUNTY PARKS STAFF WILL MONITOR PARKING COUNTS AND MANAGE PUBLIC ACCESS AT THE EXISTING MAIN ENTRANCE ON BAY ROAD.

9. CONTRACTOR IS TO PROVIDE ALL TEMPORARY FENCING, GATES, SECURITY AND SAFETY MEASURES.

10. EXISTING AND PROPOSED SITE FENCING IS SHOWN FOR REFERENCE ONLY.

11. CONTRACTOR MUST SUBMIT FENCING PLAN WITH SCHEDULE FOR REVIEW AND APPROVAL BY COUNTY PARKS PRIOR TO SITE MOBILIZATION.




## CSM 2101 - MATERIALS SCHEDULE

### PAVING

| TAG | SYMBOL | TYPE |
|---|---|---|
| P1 | | ASPHALT PAVING –PEDESTRIAN |
| P2 | | ASPHALT PAVING –VEHICULAR |
| P3 | | ASPHALT PAVING –VEHICULAR AT TREE ZONE |
| P4 | | DETECTABLE WARNING STRIPS |
| P5 | | STABILIZED CRUSHED STONE PAVING |
| P6 | | TENNIS COURT PAVING AND SURFACING |
| P7 | | BASKETBALL COURT PAVING AND SURFACING |
| P8 | | PUMP TRACK |
| P9 | | VOLLEYBALL SAND |
| P10 | | CONCRETE CURB |
| P11 | | SYNTHETIC TURF |
| P12 | | FLAGSTONE PAVING |
| P13 | | GRAVEL MULCH |
| P14 | | ATHLETIC FIELD CONC. PERIMETER CURB |

### SITE ELEMENTS

| TAG | SYMBOL | TYPE |
|---|---|---|
| S1 | | SPECTATOR SEATING |
| S2 | | DRINKING FOUNTAIN |
| S3 | | WASTE RECEPTACLES |
| S4 | | BENCH |
| S5 | | ADIRONDACK CHAIRS AND RECLAIMED LOG TABLES |
| S6 | | BIKE RACKS |
| S7 | | VEHICULAR CHAINLINK GATE |
| S8 | | WIFI POLE |
| S9 | | REMOVABLE BOLLARDS |
| S10 | | PARKING LOT BOULDER |
| S11 | | UTILITY FENCE RESTROOM 'B' |
| S12 | | ELECTRICAL EQUIPMENT ENCLOSURE |
| S13 | | PUMP TRACK FENCE |
| S14 | | TREE BRANCH BRACES |
| S15 | | BIKE REPAIR STATION |

### PICNIC AREAS

| TAG | SYMBOL | TYPE |
|---|---|---|
| A1 | | OAK PICNIC AREA STRUCTURES |
| A2 | | PICNIC TABLES (OAK PICNIC AREA) |
| A3 | | KIDS PICNIC TABLE |
| A4 | | STD. 8' PICNIC TABLE |
| A5 | | STD. 10' PICNIC TABLE |
| A6 | | NEW PEDESTAL GRILLS |
| A7 | | LARGE COUNTERTOP GRILLS |
| A8 | | SMALL COUNTERTOP GRILLS |
| A9 | | SINKS |
| A10 | | GRILL COUNTERS |
| A11 | | WOOD COUNTERS |
| A12 | | DUMPSTERS AND ENCLOSURES |
| A13 | | PINATA HANGERS (N.I.C) |

### SPORTS COURT/FIELD ELEMENTS

| TAG | SYMBOL | TYPE |
|---|---|---|
| F1 | | BASKETBALL RIM, BACKBOARD, POLE AND NYLON NET |
| F2 | | TENNIS COURT FENCE |
| F3 | | TENNIS COURT NET |
| F4 | | VOLLEYBALL NET, POLE & RATCHET, J–BOLT, AND ANCHOR |
| F5 | | STORAGE SHED |
| F6 | | S12 SOCCER GOALS |


cmg Landscape Architecture
444 Bryant St
San Francisco, CA 94107
415.495.3070
www.cmgsite.com


OWNER/CLIENT

SAN MATEO COUNTY
PARKS DEPARTMENT,
455 COUNTY CENTER, 4TH FLOOR
REDWOOD CITY, CA 94063

CONSULTANTS

PROJECT NAME

FLOOD PARK
215 BAY RD.
MENLO PARK, CA 94025

SITE EXHIBIT

STAMP

LICENSED LANDSCAPE ARCHITECT — CHRISTOPHER M. QUILLARD, No. 6362 — Signature — Renewal Date 08/31/2024 — STATE OF CALIFORNIA

PHASE

PHASE 1 BID PS&E DOCUMENTS

| NO. | ISSUE | DATE |
|---|---|---|
| | 100% SCHEMATIC DESIGN (30%) | 07.18.22 |
| | PHASE 1 - CD PROGRESS SET | 10.07.22 |
| | PHASE 1 - 75% PS&E | 11.04.22 |
| | PHASE 1 - 90% PS&E | 12.09.22 |
| | PHASE 1 - 100% PS&E BID CHK SET | 03.20.23 |
| | PHASE 1 - 100% PS&E BID SET | 04.28.23 |
| | PHASE 1 - BID PS&E DOCUMENTS | 05.26.23 |
| 1 | BID ADDENDUM 1 | 07.03.23 |
| 2 | BID ADDENDUM 2 | 08.04.23 |
| | PHASE 1 - RE-BID PS&E DOCS | 11.01.23 |

COUNTY OF SAN MATEO - DPW STAMP

REGISTERED PROFESSIONAL ENGINEER — ANN MADER STILLMAN — C 47882 — EXPIRES 12/31/23 — CIVIL — STATE OF CALIFORNIA

SHEET TITLE

LANDSCAPE MATERIALS PLAN

| PROJECT | DRAWN BY |
|---|---|
| CSM 2101 | AFO, JY, NA, AMP |
| SCALE | CHECKED BY |
| | CG, AMP |

SHEET NUMBER

L1-110