



BID No. 19014.2

New Probations Headquarters Building Project

ADDENDUM #2

April 30, 2024

ADDENDUM TO BID DOCUMENTS

County of Santa Barbara

New Probation Headquarters

**Addendum #2
April 30th, 2024**

NOTE: ALL PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS REMAIN UNCHANGED EXCEPT SECTIONS OR PARTS ADDED TO, REVISED, DELETED OR CLARIFIED BY THIS ADDENDUM.

Addendum 1 Sheet total:

Items - 99

Full size drawing sheets – 25

Specifications sheets - 59

CHANGES TO SPECIAL CONDITIONS

- Item 1:** Reference Special Conditions Section 7. (B): Revise section to read: “The COUNTY OF SANTA BARBARA shall obtain and pay for the following permits: (1) Water connection; (2) Sewer connection; (3) Electrical; (4) Stormwater connection; (5) Fire water connection; (6) City of Santa Barbara Encroachment Permit; (7) Erosion Control Permit. All other permits necessary to carry out the Work, including applications, applicable fees, and obtaining, are the responsibility of the Contractor.”
- Item 2:** Reference Special Conditions: Add the following Section 19 (B) to read: “Contractor shall pay for all cost for utility consumption including water, power, sewer, etc. during the course of the Project.”
- Item 3:** Reference Special Conditions: Add the following Section 21 (B) to read: :All cost associated with parking during the course of the Project shall be by the Contractor.”
- Item 4:** Reference Special Conditions Section 53.G: “Revise section to read: Fire watch shall be provided per California Fire Code (CFC) Chapter 33”
- Item 5:** Reference Special Conditions: Add the following Section 58 to read: “TEMPORARY CONSTRUCTION ENTRY PERMITS. (A) The County will be acquiring Temporary Construction Entry Permits with the property owners that border the Project Site. The intent of these "Entry Permits" is to provide access to the Contractor to perform the Work that borders the adjacent properties. It is expected that the Contractor will perform the majority of the work from the Project Site and the "Entry Permits" will be used for minimal work, clean up, etc. Contractor to provide 72-hour notice to the County prior to entering on to neighboring property.”
- Item 6:** Reference Special Conditions: Add the following Section 59 to read: “SOUTHERN CALIFORNIA EDISON. (A) The COUNTY OF SANTA BARBARA is currently working with Southern California Edison on the design, engineering, and installation of the permanent power to serve the New Probations Headquarters project. Per Exhibit 1, we are

anticipating the power to be run from the corner of Figueroa Street and Garden Street to the project site. We do not anticipate the final approved design until one (1) year from the date of Notice to Proceed Two (NTP 2). Contractor shall anticipate this in their construction schedule and include the cost of all necessary labor, materials, equipment, and construction services necessary to carry out the Work in the Base Bid.”

CHANGES INSTRUCTIONS TO BIDDERS

Item 7: Reference Bid Bond: Replace Bid Bond Form as attached

CHANGES TO SPECIFICATIONS

Item 8: Reference Table of Contents: Add the following to read:

03 54 13 GYPSUM CEMENT UNDERLAYMENT

07 17 00 BENTONITE WATERPROOFING

08 33 43 OVERHEAD COILING SMOKE CURTIANS

09 05 61.13 MOISTURE VAPOR CONTROL

11 24 23 FALL PROTECTION TIEBACK ANCHORS

Item 9: Reference Section 03 54 13 GYPSUM CEMENT UNDERLAYMENT: Add new Section 03 54 13 GYPSUM CEMENT UNDERLAYMENT attached.

Item 10: Reference Section 07 17 00 BENTONITE WATERPROOFING: Add new Section 07 17 00 BENTONITE WATERPROOFING as attached.

Item 11: Reference Section 08 33 43 OVERHEAD COILING SMOKE CURTIANS: Add new Section 08 33 43 OVERHEAD COILING SMOKE CURTIANS as attached.

Item 12: Reference Section 09 05 61.13 MOISTURE VAPOR CONTROL: Add new Section 09 05 61.13 MOISTURE VAPOR CONTROL as attached.

Item 13: Reference Section 11 24 23 FALL PROTECTION TIEBACK ANCHORS: Add new Section 11 24 23 FALL PROTECTION TIEBACK ANCHORS as attached.

Item 14: Reference Specification Section 01 32 14A – CONSTRUCTION MILESTONES: Milestone 36 Milestone Completion Date to read as follows: “754 Calendar days after the effective date of the NTP.”

Item 15: Reference Specification Section 01 50 00 - TEMPORARY FACILITIES AND CONTROLS: Add Article 2.1 to read as follows: TEMPORARY FACILITIES

- A. Field Offices: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading, or provide field office in permanent adjacent office space within 500 feet of site.
- B. Common-Use Field Office: Of sufficient size to accommodate needs of Owner, Architect, Construction Manager, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly. Furnish and equip offices as follows:

1. Furniture required for Project-site documents, including file cabinets, plan tables, plan racks, and bookcases.
 2. Conference room of sufficient size to accommodate meetings of **10** individuals. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall. Furnish room with conference table, chairs, and **4-foot-** square tack and marker boards.
 3. Drinking water and private toilet.
 4. Heating and cooling equipment necessary to maintain a uniform indoor temperature of **68 to 72 deg F**.
 5. Lighting fixtures capable of maintaining average illumination of **20 fc** at desk height.
- C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
1. Store combustible materials apart from building.

Item 16: Reference Section 01 57 1 CEQA Mitigations: Replace existing section with new Section 01 57 19 in its entirety as attached.

Item 17: Reference Specification Section 01 71 23 - FIELD ENGINEERING: Add Sub paragraph 1.02 B a to read as follows:

- a. Owner will identify existing property corners prior to start of demolition and grading, Contractor will be responsible for maintaining staking through construction. Any restaking will be at contractors expense

Item 18: Reference Section 03 30 00 CAST IN PLACE CONCRETE: Replace existing section with new Section 03 30 00 CAST IN PLACE CONCRETE in its entirety as attached.

Item 19: Reference Specification Section 04 22 00 - CONCRETE MASONRY UNITS: Replace Paragraph 3.1 F a to read as follows:

F. Grouting - High Lift: Placement of grout in lifts higher than 2 feet shall be considered high lift grouting and is not allowed.

Item 20: Reference Specification Section 04 22 00 - CONCRETE MASONRY UNITS: Remove Article 3.7, Renumber Article 3.9 to 3.8 and Article 3.10 to 3.9

Item 21: Reference Specification Section 05 12 00 - Structural Steel: Replace Paragraph 1.4 B to read as follows:

- B. Qualifications of Fabricator: Fabricate structural steel in shop of a licensed fabricator, AISC certified *or* LA City certified, in the same category of the scope of this project

Item 22: Reference Specification Section 08 12 16 - ALUMINUM FRAMES: Add Sub paragraph 2.2 A 5 to read as follows:

5. Avalon International Aluminum

Item 23: Reference Specification Section 32 31 16 - WELDED WIRE FENCING AND GATES: Replace Paragraph 2.2 B to read as follows:

B. Fence Fabric: Metallic-coated-steel wire.

Spacing of Vertical Wires: 2".

Vertical Wire Size: 0.192 inch.
Spacing of Horizontal Wires: 6".
Horizontal Wire Size: 0.92 inch.

Item 24: Reference Specification Section 28 10 00 - Electronic ACCESS CONTROL SYSTEM: Replace Sub paragraph 2.2 E 6 to read as follows: Controllers and modules shall be mounted within a Security Terminal Cabinet (STC). Cabinet shall be suitable for the environment in which it is installed, as recommended by the manufacturer and required by the specifications.

Item 25: Reference Specification Section 28 10 00 - ELECTRONIC ACCESS CONTROL SYSTEM: Replace paragraph 2.2 F to read as follows: Access Control Readers: Provide multiclass 125 KHz Proximity (RFID) / 13.56 MHz smartcard readers as shown on the drawings. Coordinate with County of Santa Barbara Probation Office Building representative to verify the current credential technology. Readers shall be "single-package" type, combining controller, electronics and antenna in one package, in the following configurations:

Item 27: Reference Specification Section 28 23 00 - VIDEO SURVEILLANCE SYSTEM: Replace Paragraph 1.2 A to read as follows: General Description: This specification section covers the furnishing and installation of a complete low-voltage Video Surveillance System (VSS) and Security Intercom System (SIS) communicating newly installed building network infrastructure.

Item 28: (Not used)

Item 29: Reference Specification Section 28 23 00 - VIDEO SURVEILLANCE SYSTEM: Replace Paragraph 2.2 C to read as follows: Client Workstation: Provide Bosch VMS most current version available at time of purchase, no known equal workstation configured as required to support the workstation requirements for the project.

Item 30: Reference Specification Section 28 23 00 - VIDEO SURVEILLANCE SYSTEM: Replace Paragraph 1.8 C 15 a to read as follows: The object of "security system integration" is to automatically configure the system to display, record, and report appropriate system activity to various elements of the system. Automatic configuration frees operators from several difficult control tasks, gives the operator more time to respond to events, reduces operator error, and ensures critical system tasks occur consistently. The system shall integrate to the DSX access control system using standard interface API provided by the VSS manufacturer. The manufacturer shall provide a Software Development Kit (SDK) to provide the capability to integrate to other system utilizing .XML protocols

Item 31: Reference Specification Section 32 90 00 -LANDSCAPE PLANTING: Replace Paragraph 3.7 B to read as follows:

B. Layout of trees: All trees 24" box size and larger (including any specimen bareroot palms) shall be placed in the landscape per the direction of the Owner's Representative prior to installation of irrigation system. The trees shall then be moved so that planting holes can be excavated and amended. The trees shall then be installed in their respective holes and positioned in the holes per direction of the Owner's Representative. For those trees located within tree wells, the layout shall be in direct coordination with the installation of the tree wells. The trees shall be placed so that the center of trunk is directly within the center of the tree well, equidistant on all sides of the tree well edges.

Item 32: Reference Specification Section 32 90 00 -LANDSCAPE PLANTING: Replace Paragraph 3.10 D to read as follows:

- D. Set container-grown stock plumb and in center of excavated planting pit or trench with root flare 1-inch above adjacent finish grades. Exception: City street Tree planting requires root flare 2-inches above adjacent finish grade

(sub paragraphs 1- 6 remain the same)

Item 33: Reference Specification Section 32 90 00 -LANDSCAPE PLANTING: Remove 3.17 B relabel 3.17 C to B and 3.17 D to C

Item 34: Reference Specification Section 01 71 23 -FIELD ENGINEERING: Add Paragraph 3.02 M to read as follows:

M. Prior to starting work, Contractor shall survey all existing structures bordering the project site to document the existing elevations of the structures. Once ALL work is complete, Contractor shall re-survey to confirm final elevations.

Item 35: Reference Specification Section 01 32 33 -PHOTOGRAPHIC DOCUMENTATION: Add Paragraph Paragraph 1.04 C to read as follows:

“C. Prior to starting work, Contractor shall provide photo and video documentation of ALL adjacent properties that are bordering the Project Site to document the existing conditions.”

Item 36: Reference Section 09 24 00 CEMENT PLASTERING: Replace existing section with new Section 09 24 00 CEMENT PLASTERING in its entirety as attached. Leveling coat, finish and reinforcing mesh information added

CHANGES TO DRAWINGS

CIVIL

Item 37: Reference GRADING & DRAINAGE PLAN- EAST Sheet C-004: Update sheet as shown in CSK-A2-1 as attached. Wall Heights clarified.

Item 38: Reference GRADING & DRAINAGE PLAN- EAST Sheet C-004: Update sheet as shown in CSK-A2-2 as attached. Wall Heights clarified, retaining curb limits identified.

Item 39: Reference UTILITY PLAN EAST sheet C-007: Replace with new sheet C-007 as attached. Piping Clarified.

ARCHITECTURAL

Item 40: Reference OVERALL SITE PLAN Sheet AS-1.1.0: Replace KEYNOTE 32000D text with the following: “8’-0” TALL WELDED WIRE ANTI-CLIMB FENCE, REFER TO DETAIL 18/AS-7.0.1”

Item 41: Reference OVERALL SITE PLAN Sheet AS-1.1.0: Replace KEYNOTE 32391A text with

the following: "BOLLARDS, REFER TO 14/AS-7.0.0"

Item 42: Reference OVERALL SITE PLAN Sheet AS-1.1.0: Add Sheet GENERAL NOTE 7 with the following text: "REFER TO STRUCTURAL DETAILS ON SHEET S-403 FOR RETAINING WALLS REINFORCING AND FOOTINGS NOTED ON ARCHITECTURAL AND CIVIL DRAWINGS AND STRUCTURAL DETAIL 1 ON SHEET S-405 FOR FOUNDATION AND REINFORCING OF FREESTANDING CMU WALLS"

Item 43: Reference ENLARGED SITE PLANS Sheet AS-1.1.1: Add Sheet GENERAL NOTE 7 with the following text: "REFER TO STRUCTURAL DETAILS ON SHEET S-403 FOR RETAINING WALLS REINFORCING AND FOOTINGS NOTED ON ARCHITECTURAL AND CIVIL DRAWINGS AND STRUCTURAL DETAIL 1 ON SHEET S-405 FOR FOUNDATION AND REINFORCING OF FREESTANDING CMU WALLS"

Item 44:

Item 45: Reference ENLARGED SITE PLANS Sheet **AS-1.1.1:** Replace KEYNOTE 32000D text with the following: "8'-0" TALL WELDED WIRE ANTI-CLIMB FENCE, REFER TO DETAIL 18/AS-7.0.1"

Item 46: Reference TYPICAL SITE DETAILS sheet AS-7.0.0: Replace with new sheet AS-7.0.0 as attached. bollard detail 14 added

Item 47: Reference TYPICAL SITE DETAILS sheet AS-7.0.1: Replace with new sheet AS-7.0.1 as attached. Added Fence detail 18.

Item 48: Reference SITE DETAILS - GATES sheet AS-7.0.2: Replace with new sheet AS-7.0.2 as attached. Materials clarified

Item 49: Reference SECOND FLOOR PLAN sheet A-1.2.1: Update sheet as shown in ASK-A2-1 as attached. Bar Grating Added

Item 50: Reference ENLARGED ELEVATOR PLANS AND SECTIONS sheet A-1.3.2: Update sheet as shown in ASK-A2-2 as attached. Smoke Curtains added

Item 51: Reference GROUND FLOOR SLAB AND DIMENSION PLAN sheet A-1.4.0: Replace with new sheet A-1.4.0 as attached. Elevations updated

Item 52: Reference GROUND FLOOR SLAB AND DIMENSION PLAN sheet A-1.4.1: Replace with new sheet A-1.4.1 as attached. Curb Heights clarified I select locations.

Item 53: Reference SECOND FLOOR REFLECTED CEILING PLAN Sheet A-2.2.0: Update sheet as shown in ASK-A2-3 as attached. Smoke curtain at elevator added.

Item 54: Reference THIRD FLOOR REFLECTED CEILING PLAN Sheet A-2.3.0: Update sheet as shown in ASK-A2-4 as attached. Smoke curtain at elevator added.

Item 55: Reference OVERAL EXTERIOR ELEVATION sheet A-3.1.1: Replace with new sheet A-3.1.1 as attached. Expansion Joints at CMU walls located.

Item 56: Reference OVERALL EXTERIOR ELEVATION Sheet A-3.1.2: Update sheet as shown in ASK-A2-5 as attached. Expansion Joints at CMU walls located

Item 57: Reference OVERALL EXTERIOR ELEVATION sheet A-3.1.3: Replace with new sheet A-3.1.3 as attached. Expansion Joints at CMU walls located.

Item 58: Reference OVERALL EXTERIOR ELEVATION sheet A-3.1.4: Replace with new sheet A-3.1.4 as attached. Expansion Joints at CMU walls located.

- Item 59:** Reference PARTIAL EXTERIOR ELEVATION sheet A-3.1.5: Replace with new sheet A-3.1.5 as attached. Additional Joints at Plaster walls located.
- Item 58.1:** Reference PARTIAL EXTERIOR ELEVATION sheet A-3.1.6: Replace with new sheet A-3.1.6 as attached. Additional Joints at Plaster walls located.
- Item 60:** Reference BUILDING SECTIONS Sheet A-4.1.2: Replace KEYNOTE 32391A text with the following: "BOLLARDS, REFER TO 14/AS-7.0.0"
- Item 61:** Reference WINDOW SCHEDULE sheet A-7.2.0: Replace with new sheet A-7.2.0 as attached. Roller Shades indicated at specific windows.
- Item 62:** Reference STOREFRONT SCHEDULE Sheet A-7.2.3: Update sheet as shown in ASK-A2-6 as attached. Storefront with roller shades indicated.
- Item 63:** Reference INTERIOR FINISH SCHEDULE sheet A-7.3.0: Replace with new sheet A-7.3.0 as attached. Schedule format corrected, additional rooms added.
- Item 64:** Reference INTERIOR FINISH SCHEDULE sheet A-7.3.1: Replace with new sheet A-7.3.1 as attached. Schedule format corrected, additional rooms added.
- Item 65:** Reference FLOOR ASSEMBLIES Sheet AD-0.5: Update sheet as shown in ASK-A2-7 as attached. Gypcrete thickness clarified.
- Item 66:** Reference WALL DETAILS - EXTERIOR Sheet AD-4.0: Update sheet as shown in ASK-A2-8 as attached. Detail 3 CMU Wall expansion joint added.
- Item 65.1:** Reference EXTERIOR WINDOW AND LOUVER DETAILS Sheet AD-5.2: Update sheet as shown in ASK-A2-10 as attached. Details 13 and 18 revised to match 3 Piece simulated true muntins.
- Item 67:** Reference ROOF DETAILS – PLAZA DECK Sheet AD-7.4: Update sheet as shown in ASK-A2-9 as attached. Bench at detail 20 changed from wood to GFRC.
- Item 68:** Reference ELEVATOR DETAILS Sheet AD-9.0: Update sheet as shown in ASK-A2-10 as attached. Smoke curtain added at detail 10

STRUCTURAL

- Item 69:** Reference GENERAL STRUCTURAL NOTES Sheet S-002 : Update sheet as shown in SSK-S002-1 as attached
- Item 70:** Reference ENLARGED FOUNDATION PLAN – AREA A Sheet S-100A: Update sheet as shown in SSK-S100A-1 as attached. Penetrations for manhole and biopod added.
- Item 71:** Reference OVERALL FOUNDATION ADDED REINFORCING PLAN Sheet S-100R: Update sheet as shown in SSK-S100R-1 as attached. Penetrations for manhole and biopod added.
- Item 72:** Reference ENLARGED FIRST FLOOR PLAN – AREA A- TIE DOWN PLAN Sheet S-101A: Remove Row C2 from TYPICAL HSS POST SCHEDULE
- Item 73:** Reference Sheets S-101A ENLARGED FIRST FLOOR PLAN – AREA A- TIE DOWN PLAN, S-101B ENLARGED FIRST FLOOR PLAN – AREA B- TIE DOWN PLAN, S-102A ENLARGED SECOND FLOOR PLAN – AREA A, S103A ENLARGED THIRD FLOOR PLAN

– AREA A, S-104A ENLARGED ROOF PLAN – AREA A, S-105 HIGH ROOF PLAN: Update sheet WALL FRAMING LEGEND as shown in SSK-S100-1.

Item 74: Reference Sheet S-101B ENLARGED FIRST FLOOR PLAN – AREA B- TIE DOWN PLAN: Remove Row C2 from TYPICAL HSS POST SCHEDULE

Item 75: Reference Sheet S-102A ENLARGED SECOND FLOOR PLAN – AREA A: Remove Row C2 from TYPICAL HSS POST SCHEDULE

Item 76: Reference Sheet S-103A ENLARGED THIRD FLOOR PLAN – AREA A: Remove Row C2 from TYPICAL HSS POST SCHEDULE

Item 77: Reference Sheet S-104A ENLARGED ROOF PLAN – AREA A: Remove Row C2 from TYPICAL HSS POST SCHEDULE

Item 78: Reference Sheet S-105 HIGH ROOF PLAN: Remove Row C2 from TYPICAL HSS POST SCHEDULE

Item 79: Reference SHEAR WALL AND BEARING WALL ELEVATIONS Sheet S-210: Update sheet as shown in SSK-S210-1 as attached. CMU Shear wall reinforcing updated.

Item 80: Reference SHEAR WALL AND BEARING WALL ELEVATIONS Sheet S-211: Update sheet as shown in SSK-S211-1 as attached. CMU Shear wall reinforcing updated.

Item 81: Reference TYPICAL CMU DETAILS Sheet S-403: Update sheet as shown in SSK-S403-1 as attached. Property line retaining wall clarified.

MECHANICAL

Item 82: Reference MECHANICAL SCHEDULES sheet M-0.0.4: Replace with new sheet M-1.0.0 as attached with updates to the VARIABLE REFRIGERANT VOLUME FAN COIL SCHEDULE.

Item 83: Reference MECHANICAL VRF WIRING AND PIPING DIAGRAMS Sheet M-0.0.9 : Add GENERAL NOTE with the following text: “PROVIDE WELDED, FULL PORT BALL VALVES AT ALL FANCOIL/ BRANCH BOX REFRIGERANT PIPE CONNECTIONS FOR ISOLATION AND SERVICE AT EACH ZONE. PROVIDE BALL VALVES ON LIQUID AND SUCTION LINES.”

Item 84: Reference MECHANICAL VRF WIRING AND PIPING DIAGRAMS Sheet M-0.0.10 : Add GENERAL NOTE with the following text: “PROVIDE WELDED, FULL PORT BALL VALVES AT ALL FANCOIL/ BRANCH BOX REFRIGERANT PIPE CONNECTIONS FOR ISOLATION AND SERVICE AT EACH ZONE. PROVIDE BALL VALVES ON LIQUID AND SUCTION LINES.”

PLUMBING

Item 85: Reference PLUMBING GROUND FLOOR PLAN sheet P-1.0.0: Replace with new sheet P-1.0.0 as attached with updates to the Storm Drain System.

ELECTRICAL

Item 86: Reference SOLAR SYSTEM SINGLE LINE DIAGRAM sheet E-0.5: Replace with new sheet E-0.5 as attached with updates to the Rapid Shutdown Equipment. Notes updated

Item 87: Reference PANEL SCHEDULES sheet E-0.8: Replace with new sheet E-0.8 as attached with updates to panel schedule for smoke curtain.

Item 88: Reference SECOND FLOOR POWER PLAN sheet E-1.2.2: Replace with new sheet E-1.2.2 as attached with updates to power feed for smoke curtain for smoke curtain.

Item 89: Reference THIRD FLOOR POWER PLAN sheet E-1.3.2: Replace with new sheet E-1.3.2 as attached with updates to power feed for smoke curtain for smoke curtain.

LANDSCAPE ARCHITECTURE

Item 90: Reference CONSTRUCTION DETAILS Sheet LC-3.0: Remove Detail C – TREE GRATE.

Item 91: Reference AT GRADE LANDSCAPE IRRIGATION PLAN ENLARGEMENTS Sheet LI-1.1.2: Update sheet as shown in ASK-L1-1 as attached. Tree well bubblers added to legend and callout revised

Item 92: Reference MAIN LEVEL PLANTING PLAN Sheet LP-1.1.1: Update sheet as shown in ASK-L4-1 as attached. Tree well replace tree grates

Item 93: Reference LANDSCAPE IRRIGATION DETAILS Sheet LI-9.0: Remove Detail B – TREE BUBBLER UNDER TREE GRATE.

Item 94: Reference AT GRADE LANDSCAPE AND CONSTRUCTION ENLARGEMENTS sheet LC-1.1.2: Replace with new sheet LC-1.1.2 as attached with removed Street Tree Grate and adjusted dimensions of tree wells.

Item 95: Reference MAIN LEVEL LANDSCAPE CONSTRUCTION AND LAYOUT ENLARGEMENTS sheet LC-1.1.3: Replace with new sheet LC-1.1.3 as attached with reordered Landscape Construction Legend

Item 96: Reference LEVEL 2, LEVEL 3, LANDSCAPE CONSTRUCTION PLANS AND LAYOUT PLAN ENLARGEMENTS sheet LC-1.2.1: Replace with new sheet LC-1.2.1 as attached with reordered Landscape Construction Legend

Item 97: Reference LANDSCAPE CONSTRUCTION LEGEND sheet LC-2.1: Replace with new sheet LC-2.1 as attached with reordered Landscape Construction Legend

Item 98: Reference LANDSCAPE CONSTRUCTION LEGEND sheet LC-2.12 Replace with new sheet LC-2.1 as attached with reordered Landscape Construction Legend

Item 99: Reference PLANTING DETAILS sheet LP-3.0 Replace with new sheet LP-3.0 as attached with changes to detail A - TREE PLANTING WITH DOUBLE STAKING DETAIL

BIDDER'S BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____ as Principal, and _____ as Surety (hereinafter referred to as Surety), are held firmly bound unto the County of Santa Barbara, State of California (hereinafter called "Owner") in the penal sum of Ten Percent (10%) of the total aggregate amount of the bid of the Principal above named, submitted by said Principal to Owner for the work described below, for the payment of which sum in lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. Surety shall be and hereby warrants that it is listed in the Insurance Organizations Authorized by the Insurance Commissioner to Transact Business of Insurance in the State of California, published by the Department of Insurance, State of California or successor publications. In no case shall the liability of the Surety hereunder exceed the sum of _____ DOLLARS (\$ _____). The condition of this obligation is such that a bid to Owner for certain construction specifically described as follows:

**COUNTY OF SANTA BARBARA
NEW PROBATION HEADQUARTERS
1019 Garden Street, Santa Barbara, CA 93101
Project No. 19014**

for which bids are due on Thursday, May 9, 2024 at 3:00 PM Pacific Time, has been submitted by Principal to Owner.

NOW, THEREFORE, if the aforesaid Principal shall not withdraw said bid within the period therein after the opening of the same, or, if no period be specified within sixty (60) days after said opening and shall within the period specified therefore, or, if no period be specified, within eight (8) days after the prescribed forms are presented to him for signature, enter into a written Contract with Owner, in the prescribed form, in accordance with the bid as accepted, and file the two Bonds with Owner, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall remain in full force, virtue and affect.

Said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of said Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any manner affects its obligations on this bond, and it does hereby waive notice of any change, extension, alteration, or addition.

It is hereby agreed that any progress payment made after the scheduled completion date will not constitute a waiver of any liquidated damages heretofore agreed upon.

In the event suit is brought upon said Bond by Owner and judgment is recovered, the Surety shall pay all costs incurred by Owner in such suit, including a reasonable attorney's fee to be fixed by the Court.

Death, Bankruptcy, Receivership, Going Out of Business for any reason, or incompetence of the Principal shall not relieve the Surety of its obligations hereunder.

Name of Principal _____
Dated _____ Signature of Principal _____ (Seal)

Name of Surety _____
Address _____
City, State & Zip _____
Dated _____ Signature of Surety's Attorney-in-fact _____ (Seal)

Surety's Agent for Service of Process (located within the State of California):

Name of Agent _____
Address _____
City, State & Zip _____
Telephone Number _____
FAX Number _____

NOTE: Signatures of those executing for Surety MUST be properly acknowledged. This form may be reproduced for transmittal to the Surety for execution and attached to the front of the original Bid Bond Form.

SECTION 01 57 19 - CEQA MITIGATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Mitigation procedures to minimize environmental impact.

1.02 RELATED SECTIONS

- A. Section 01 35 00 – Special Procedures
- B. Section 01 74 16 – Storm Water Pollution Prevention Plan.
- C. Section 01 45 24 – Environmental Import / Export Materials Testing.
- D. Section 01 50 00 - Construction Facilities and Temporary Controls.
- E. Section 01 74 19 - Construction and Demolition Waste Management.

1.03 SUBMITTALS

- A. CONTRACTOR shall submit monthly the form “Certification of Compliance with CEQA Mitigations”, found in Section 01 57 19, certifying compliance to CEQA mitigations.

1.04 CEQA MITIGATIONS - MITIGATION MONITORING AND REPORTING PROGRAM -

- A. CONTRACTOR shall comply with the Mitigated Negative Declaration Monitoring and Reporting Program and all other CEQA requirements included in **Exhibit G – Public Review Draft Initial Study Mitigated Negative Declaration**.
- B. Following installation of exterior lighting CONTRACTOR shall adjust light fixtures to reduce the lighting intensity from the new sources on adjacent residences to no more than two foot-candles, measured at the property line.
- C. CONTRACTOR shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer’s specifications, to ensure that excessive emissions are not generated by unmaintained equipment.
- D. CONTRACTOR shall comply with the following requirements:
 - 1. Maintain slow speeds with all vehicles.
 - 2. Load impacted soil directly into transportation trucks to minimize soil handling.
 - 3. Water/mist soil as it is being excavated and loaded onto the transportation trucks.
 - 4. Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site.
 - 5. Minimize soil drop height into transportation trucks or stockpiles during dumping.
 - 6. During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks.
 - 7. Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed.
 - 8. Place stockpiled soil on polyethylene sheeting and cover with similar material.

9. Place stockpiled soil in areas shielded from prevailing winds.

E. When using large, heavy or noisy construction equipment CONTRACTOR shall implement all feasible measures to reduce air emissions below the *Santa Barbara* County Air Quality Management (SBACQMD) regional and localized significance thresholds.

1. Exhaust Emissions:

- a. Schedule construction activities that affect traffic flow to off-peak hours .
- b. Consolidate truck deliveries and/or limit the number of haul trips per day.
- c. Route construction trucks of congested streets.
- d. Employ high pressure fuel injection systems or engine timing retardation.
- e. Utilize ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment.
- f. Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower.
- g. Restrict non-essential diesel engine idle time, to not more than five consecutive minutes.
- h. Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction.
- i. Utilize electric or alternatively fueled equipment, if feasible.
- j. Utilize construction equipment with the minimum practical engine size.
- k. Utilize low-emission on-road construction fleet vehicles.
- l. Ensure construction equipment is properly serviced and maintained to the manufacturer's standards.

2. Fugitive Dust:

- a. Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for ten days or more).
- b. Replace ground cover in disturbed areas as quickly as possible.
- c. Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water).
- d. Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip.
- e. Water the disturbed areas of the active construction site at least three times per day, except during periods of rainfall.
- f. Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a five percent or greater silt content.
- g. Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph).
- h. Apply water at least three times daily, except during periods of rainfall, to all unpaved road surfaces.
- i. Limit traffic speeds on unpaved road to 10 mph or less.

- j. Prohibit high emission causing fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD.
 - k. Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials.
 - l. Limit the amount of daily soil and/or demolition debris loaded and hauled per day.
3. General Construction:
- a. Utilize ultra-low VOC or zero-VOC surface coatings.
 - b. Phase construction activities to minimize maximum daily emissions.
 - c. Configure construction parking to minimize traffic interference.
 - d. Provide temporary traffic control during construction activities to improve traffic flow (e.g., flag person).
 - e. Develop a trip reduction plan for construction employees.
 - f. Increase distance between emission sources to reduce near-field emission impacts.
 - g. Require construction contractors to document compliance with the identified mitigation measures.
- F. CONTRACTOR shall consult and coordinate with the COUNTY OF SANTA BARBARA REPRESENTATIVE and COUNTY OF SANTA BARBARA, prior to construction to schedule high noise or vibration producing activities to minimize disruption. Coordination shall continue on an as-needed basis throughout the construction phase of the project.
- G. CONTRACTOR shall minimize blasting for all construction and demolition activities, where feasible. If demolition is necessary adjacent to residential uses or fragile structures, the COUNTY OF SANTA BARBARA REPRESENTATIVE will require the CONTRACTOR to avoid using impact tools. Alternatives that shall be considered include mechanical methods using hydraulic crushers or deconstruction techniques.
- H. Where pile driving activities are required within 150 feet of a structure, a detailed vibration assessment shall be provided by an acoustical engineer to analyze potential impacts related to vibration to nearby structures and to determine feasible mitigation measures to eliminate potential risk of architectural damage.
- I. Specific noise reduction measures include, but are not limited to, those listed below.
1. Source Controls:
- a. Time Constraints: It is prohibited work during nighttime hours. Scheduling: Perform noisy work during less sensitive time periods as directed by the COUNTY.
 - b. Equipment Restrictions: Restrict the type of equipment used.
 - c. Noise Restrictions: Comply with local and state noise levels ordinances. Substitute Methods: Use quieter methods and/or equipment.
 - d. Exhaust Mufflers: Ensure equipment have quality mufflers installed.
 - e. Lubrication & Maintenance: Well-maintained equipment is quieter.
 - f. Reduced Power Operation: Use only necessary size and power.

- g. Limit Equipment On-Site: Only have necessary equipment on-site.
 - h. Noise Compliance Monitoring: Technician on site shall ensure compliance.
 - i. Quieter Backup Alarms: Manually-adjustable or ambient sensitive types.
2. Path Controls:
- a. Noise Barriers: Semi-permanent or portable wooden or concrete barriers.
 - b. Noise Curtains: Flexible intervening curtain systems hung from supports.
 - c. Enclosures: Encase localized and stationary noise sources.
 - d. Increased Distance: Perform noisy activities farther away from receptors, including operation of portable equipment, storage, and maintenance of equipment.
3. Receptor Controls:
- a. Community Participation – open dialogue to involve affected residents.
 - b. Noise Complaint Process: CONTRACTOR shall log and respond to noise complaints. Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the project area. The notice shall state specifically where and when construction activities will occur and provide contact information for filing noise complaints with the CONTRACTOR and the COUNTY OF SANTA BARBARA. In the event of noise complaints, the COUNTY OF SANTA BARBARA will monitor noise from the construction activity to ensure that construction noise does not exceed limits specified in the noise ordinance.
 - c. Construction Equipment for Use on Public Roadways: CONTRACTOR shall submit a construction worksite traffic control plan to the COUNTY OF SANTA BARBARA REPRESENTATIVE for review prior to construction. The plan shall show the location of haul routes, hours of operation, protective devices, warning signs, and access to abutting properties COUNTY OF SANTA BARBARA encourages CONTRACTOR to limit construction-related trucks to off-peak commute periods.

END OF SECTION

SECTION 033000 - CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Cast-in-place concrete, including concrete materials, mixture design, placement procedures, and finishes.

B. Related Requirements:

1. Section 031000 "Concrete Forming and Accessories" for form-facing materials, form liners, insulating concrete forms, and waterstops.
2. Section 032000 "Concrete Reinforcing" for steel reinforcing bars and welded-wire reinforcement.
3. Section 033300 "Architectural Concrete" for general building applications of specially finished formed concrete.
4. Section 033543 "Polished Concrete Finishing" for concrete floors scheduled to receive a polished concrete finish.
5. Section 035300 "Concrete Topping" for emery- and iron-aggregate concrete floor toppings.
6. Section 312000 "Earth Moving" for drainage fill under slabs-on-ground.
7. Section 321313 "Concrete Paving" for concrete pavement and walks.
8. Section 321316 "Decorative Concrete Paving" for decorative concrete pavement and walks.

1.2 DEFINITIONS

A. Cementitious Materials: Portland cement alone or in combination with one or more of the following: blended hydraulic cement, fly ash, slag cement, other pozzolans, and silica fume; materials subject to compliance with requirements.

B. Water/Cement Ratio (w/cm): The ratio by weight of water to cementitious materials.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at the project site.

1. Require representatives of each entity directly concerned with cast-in-place concrete to attend, including the following:

- a. Contractor's superintendent.
- b. Independent testing agency responsible for concrete design mixtures.
- c. Ready-mix concrete manufacturer.
- d. Concrete Subcontractor.

2. Review the following:

- a. Special inspection and testing and inspecting agency procedures for field quality control.
- b. Construction joints, control joints, isolation joints, and joint-filler strips.
- c. Semirigid joint fillers.
- d. Vapor-retarder installation.
- e. Anchor rod and anchorage device installation tolerances.
- f. Cold and hot weather concreting procedures.
- g. Concrete finishes and finishing.

- h. Curing procedures.
- i. Forms and form-removal limitations.
- j. Shoring and reshoring procedures.
- k. Methods for achieving specified floor and slab flatness and levelness.
- l. Floor and slab flatness and levelness measurements.
- m. Concrete repair procedures.
- n. Concrete protection.
- o. Initial curing and field curing of field test cylinders (ASTM C31/C31M.)
- p. Protection of field cured field test cylinders.

1.4 ACTION SUBMITTALS

A. Product Data: For each of the following.

- 1. Portland cement.
- 2. Fly ash.
- 3. Slag cement.
- 4. Blended hydraulic cement.
- 5. Silica fume.
- 6. Performance-based hydraulic cement
- 7. Aggregates.
- 8. Admixtures:
 - a. Include limitations of use, including restrictions on cementitious materials, supplementary cementitious materials, air entrainment, aggregates, temperature at time of concrete placement, relative humidity at time of concrete placement, curing conditions, and use of other admixtures.
- 9. Color pigments.
- 10. Fiber reinforcement.
- 11. Vapor retarders.
- 12. Floor and slab treatments.
- 13. Liquid floor treatments.
- 14. Curing materials.
 - a. Include documentation from color pigment manufacturer, indicating that proposed methods of curing are recommended by color pigment manufacturer.
- 15. Joint fillers.
- 16. Repair materials.

B. Sustainable Design Submittals:

- 1. Environmental Product Declaration (EPD): EPDs for cast-in-place concrete.
- 2. Laboratory Test Reports: For liquid floor treatments and curing and sealing compounds, indicating compliance with requirements for low-emitting materials.

C. Design Mixtures: For each concrete mixture, include the following:

- 1. Mixture identification.
- 2. Minimum 28-day compressive strength.
- 3. Durability exposure class.
- 4. Maximum w/cm.
- 5. Calculated equilibrium unit weight, for lightweight concrete.
- 6. Slump limit.
- 7. Air content.
- 8. Nominal maximum aggregate size.
- 9. Indicate amounts of mixing water to be withheld for later addition at Project site if

- permitted.
 - 10. Include manufacturer's certification that permeability-reducing admixture is compatible with mix design.
 - 11. Include certification that dosage rate for permeability-reducing admixture matches dosage rate used in performance compliance test.
 - 12. Intended placement method.
 - 13. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
- D. Shop Drawings:
- 1. Construction Joint Layout: Indicate proposed construction joints required to construct the structure.
 - a. Location of construction joints is subject to approval of the Architect.
- E. Samples: Manufacturer's standard colors for color pigment vapor retarder
- F. Concrete Schedule: For each location of each Class of concrete indicated in "Concrete Mixtures" Article, including the following:
- 1. Concrete Class designation.
 - 2. Location within Project.
 - 3. Exposure Class designation.
 - 4. Formed Surface Finish designation and final finish.
 - 5. Final finish for floors.
 - 6. Curing process.
 - 7. Floor treatment if any.
- 1.5 INFORMATIONAL SUBMITTALS
- A. Qualification Data: For the following:
- 1. Installer: Include copies of applicable ACI certificates.
 - 2. Ready-mixed concrete manufacturer.
 - 3. Testing agency: Include copies of applicable ACI certificates.
- B. Material Certificates: For each of the following, signed by manufacturers:
- 1. Cementitious materials.
 - 2. Admixtures.
 - 3. Fiber reinforcement.
 - 4. Curing compounds.
 - 5. Floor and slab treatments.
 - 6. Bonding agents.
 - 7. Adhesives.
 - 8. Vapor retarders.
 - 9. Semirigid joint filler.
 - 10. Joint-filler strips.
 - 11. Repair materials.
- C. Material Test Reports: For the following, from a qualified testing agency:
- 1. Portland cement.
 - 2. Fly ash
 - 3. Slag cement.
 - 4. Blended hydraulic cement.
 - 5. Silica fume.
 - 6. Performance-based hydraulic cement.

7. Aggregates.
 8. Admixtures:
 - a. Permeability-Reducing Admixture: Include independent test reports, indicating compliance with specified requirements, including dosage rate used in test.
 - D. Floor surface flatness and levelness measurements report, indicating compliance with specified tolerances.
 - E. Research Reports:
 1. For concrete admixtures in accordance with ICC's Acceptance Criteria AC198.
 2. For sheet vapor retarder/termite barrier, showing compliance with ICC AC380.
 - F. Preconstruction Test Reports: For each mix design.
 - G. Field quality-control reports.
 - H. Minutes of preinstallation conference.
- 1.6 QUALITY ASSURANCE
- A. Installer Qualifications: A qualified installer who employs Project personnel qualified as an ACI-certified Flatwork Technician and Finisher and a supervisor who is a certified ACI Flatwork Concrete Finisher/Technician or an ACI Concrete Flatwork Technician with experience installing and finishing concrete, incorporating permeability-reducing admixtures.
 1. Post-Installed Concrete Anchors Installers: ACI-certified Adhesive Anchor Installer.
 - B. Ready-Mixed Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94/C94M requirements for production facilities and equipment.
 1. Manufacturer certified in accordance with NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
 - C. Laboratory Testing Agency Qualifications: A testing agency qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated and employing an ACI-certified Concrete Quality Control Technical Manager.
 1. Personnel performing laboratory tests to be an ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician, Grade I. Testing agency laboratory supervisor to be an ACI-certified Concrete Laboratory Testing Technician, Grade II.
 - D. Field Quality-Control Testing Agency Qualifications: An independent agency, acceptable to authorities having jurisdiction, qualified in accordance with ASTM C1077 and ASTM E329 for testing indicated.
 1. Personnel conducting field tests to be qualified as an ACI Concrete Field Testing Technician, Grade 1, in accordance with ACI CPP 610.1 or an equivalent certification program.
 - E. Mockups: Cast concrete formed-surface panels to demonstrate typical joints, surface finish, texture, tolerances, floor treatments, and standard of workmanship.

1. Formed Surfaces: Build panel approximately 100 sq. ft. in the location indicated or, if not indicated, as directed by Architect.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 PRECONSTRUCTION TESTING

- A. Preconstruction Testing Service: Engage a qualified testing agency to perform preconstruction testing on each concrete mixture.

1. Include the following information in each test report:
 - a. Admixture dosage rates.
 - b. Slump.
 - c. Air content.
 - d. Seven-day compressive strength.
 - e. 28-day compressive strength.
 - f. Permeability.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Comply with ASTM C94/C94M and ACI 301.

1.9 FIELD CONDITIONS

- A. Cold-Weather Placement: Comply with ACI 301 and ACI 306.1 and as follows.

1. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
2. When average high and low temperature is expected to fall below 40 deg F for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
3. Do not use frozen materials or materials containing ice or snow.
4. Do not place concrete in contact with surfaces less than 35 deg F, other than reinforcing steel.
5. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.

- B. Hot-Weather Placement: Comply with ACI 301 and ACI 305.1, and as follows:

1. Maintain concrete temperature at time of discharge to not exceed 95 deg F.
2. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

1.10 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to furnish replacement sheet vapor retarder/termite barrier material and accessories for sheet vapor retarder/ termite barrier and accessories that do not comply with requirements or that fail to resist penetration by termites within specified warranty period.

1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 CONCRETE, GENERAL

- A. ACI Publications: Comply with ACI 301 unless modified by requirements in the Contract Documents.

2.2 CONCRETE MATERIALS

- A. Regional Materials: Verify concrete is manufactured within 100 miles of Project site from aggregates and cementitious materials that have been extracted, harvested, or recovered, as well as manufactured, within 100 miles of Project site.
- B. Source Limitations:
1. Obtain all concrete mixtures from a single ready-mixed concrete manufacturer for entire Project.
 2. Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant.
 3. Obtain aggregate from single source.
 4. Obtain each type of admixture from single source from single manufacturer.
- C. Cementitious Materials:
1. Portland Cement: ASTM C150/C150M, Type II.
 2. Fly Ash: ASTM C618, Class C or F.
 3. Slag Cement: ASTM C989/C989M, Grade 100 or 120.
 4. Silica Fume: ASTM C1240 amorphous silica.
- D. Normal-Weight Aggregates: ASTM C33/C33M, coarse aggregate or better, graded. Provide aggregates from a single source.
1. Maximum Coarse-Aggregate Size: Unless maximum coarse aggregate size is otherwise specified, the maximum aggregate size shall not exceed:
 - a. Three-fourths of the minimum clear spacing between individual reinforcing bars or wires, bundles of bars, prestressed reinforcement, individual tendons, bundled tendons or ducts.
 - b. One-fifth of the narrowest dimension between the sides of the forms.
 - c. One-third of the depth of the slabs or toppings
 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- E. Lightweight Aggregate: ASTM C330/C330M, 3/4-inch nominal maximum aggregate size.
- F. Air-Entraining Admixture: ASTM C260/C260M.
- G. Chemical Admixtures: Certified by manufacturer to be compatible with other admixtures that do not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride in steel-reinforced concrete.
1. Water-Reducing Admixture: ASTM C494/C494M, Type A.
 2. Retarding Admixture: ASTM C494/C494M, Type B.
 3. Water-Reducing and -Retarding Admixture: ASTM C494/C494M, Type D.
 4. High-Range, Water-Reducing Admixture: ASTM C494/C494M, Type F.
 5. High-Range, Water-Reducing and -Retarding Admixture: ASTM C494/C494M, Type G.
 6. Plasticizing and Retarding Admixture: ASTM C1017/C1017M, Type II.
 7. Permeability-Reducing Admixture: ASTM C494/C494M, Type S, hydrophilic, permeability-reducing crystalline admixture, capable of reducing water absorption of concrete exposed to hydrostatic pressure (PRAH).
 - a. Basis-of-Design Product: Subject to compliance with requirements, provide Xypex Chemical Corporation; Xypex Admix C-Series or comparable product by one of the following:

- 1) Penetron International, Ltd,
- 2) Or approved equal.

b. Permeability: No leakage when tested in accordance with U.S. Army Corps of Engineers CRD C48 at a hydraulic pressure of 200 psi for 14 days.

- H. Color Pigment: ASTM C979/C979M, synthetic mineral-oxide pigments, color stable, nonfading, and resistant to lime and other alkalis.
1. Color: As selected by Architect from manufacturer's full range.
- I. Water and Water Used to Make Ice: ASTM C94/C94M, potable or complying with ASTM C1602/C1602M, including all limits listed in Table 2 and the requirements of paragraph 5.4.

2.3 VAPOR RETARDERS

- A. Sheet Vapor Retarder, Class A: ASTM E1745, Class A; not less than 10 mils thick. Include manufacturer's recommended adhesive or pressure-sensitive tape.
1. Basis-of-Design Product: Subject to compliance with requirements, provide Stego Industries, LLC; Stego Wrap 20-Mil Vapor Barrier or a comparable product by one of the following:
 - a. Poly-America, L.P.
 - b. W. R. Meadows, Inc.
- B. Bituminous Vapor Retarder: ASTM E1993/E1993M, 110-mil-thick, semiflexible, seven-ply sheet membrane, consisting of reinforced core and carrier sheet with fortified asphalt layers, protective weather coating, and removable plastic release liner. Furnish manufacturer's accessories, including bonding asphalt, pointing mastics, and self-adhering joint tape.
1. Basis-of-Design Product: Subject to compliance with requirements, provide W. R. Meadows, Inc ; Premoulded Membrane Vapor Seal With Plasmatic Core.; or approved equal.
 2. Water-Vapor Permeance: 0.0011 grains/h x sq. ft. x inches Hg when tested in accordance with ASTM E154/E154M.
 3. Tensile Strength: 156 lbf/inch when tested in accordance with ASTM E154/E154M.
 4. Puncture Resistance: 140 lbf when tested in accordance with ASTM E154/E154M.

2.4 FLOOR AND SLAB TREATMENTS

- A. Slip-Resistive Emery Aggregate Finish: Factory-graded, packaged, rustproof, nonglazing, abrasive, crushed emery aggregate containing not less than 50 percent aluminum oxide and not less than 20 percent ferric oxide; unaffected by freezing, moisture, and cleaning materials with 100 percent passing 3/8-inch sieve.
- B. Slip-Resistive Aluminum Granule Finish: Factory-graded, packaged, rustproof, nonglazing, abrasive aggregate of not less than 95 percent fused aluminum-oxide granules.
- C. Emery Dry-Shake Floor Hardener: Pigmented or Unpigmented, factory-packaged, dry combination of portland cement, graded emery aggregate, and plasticizing admixture; with emery aggregate consisting of no less than 60 percent of total aggregate content.
1. Color: As selected by Architect from manufacturer's full range
- D. Metallic Dry-Shake Floor Hardener: Pigmented or Unpigmented , factory-packaged, dry combination of portland cement, graded metallic aggregate, rust inhibitors, and plasticizing admixture; with metallic aggregate consisting of no less than 65 percent of total aggregate content.

1. Color: As selected by Architect from manufacturer's full range

2.5 LIQUID FLOOR TREATMENTS

- A. Penetrating Liquid Floor Treatment: Clear, chemically reactive, waterborne solution of inorganic silicate or silicate materials and proprietary components; odorless; that penetrates, hardens, and densifies concrete surfaces.
 1. Verify products comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.6 CURING MATERIALS

- A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
 1. Basis-of-Design Product: Subject to compliance with requirements, provide Master Builders Solutions; MasterKure ER 50 or comparable product by one of the following:
 - a. Dayton Superior Corporation.
 - b. Euclid Chemical Company (The); an RPM company.
 - c. Sika Corporation.
 - d. W. R. Meadows, Inc.
- B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.
- C. Moisture-Retaining Cover: ASTM C171, polyethylene film burlap-polyethylene sheet.
 1. Color:
 - a. Ambient Temperature Below 50 deg F: Black.
 - b. Ambient Temperature between 50 deg F and 85 deg F: Any color.
 - c. Ambient Temperature Above 85 deg F: White.
- D. Curing Paper: 8-foot-wide paper, consisting of two layers of fibered kraft paper laminated with double coating of asphalt.
- E. Water: Potable or complying with ASTM C1602/C1602M.
- F. Clear, Waterborne, Membrane-Forming, Curing and Sealing Compound: ASTM C1315, Type 1, Class A.
 1. Verify products comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

2.7 RELATED MATERIALS

- A. Expansion- and Isolation-Joint-Filler Strips: ASTM D1751, asphalt-saturated cellulosic fiber or ASTM D1752, cork or self-expanding cork.
- B. Bonding Agent: ASTM C1059/C1059M, Type II, nonredispersible, acrylic emulsion or styrene butadiene.
- C. Epoxy Bonding Adhesive: ASTM C881, two-component epoxy resin, capable of humid curing and bonding to damp surfaces, of class suitable for application temperature and of grade and class to suit requirements, and as follows:
 1. Types IV and V, load bearing, for bonding hardened or freshly mixed concrete to

hardened concrete.

- D. Floor Slab Protective Covering: 8-foot-wide cellulose fabric.

2.8 REPAIR MATERIALS

- A. Repair Underlayment: Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses from 1/8 inch and that can be feathered at edges to match adjacent floor elevations.
 - 1. Cement Binder: ASTM C150/C150M portland cement or hydraulic or blended hydraulic cement, as defined in ASTM C219.
 - 2. Primer: Product of underlayment manufacturer recommended for substrate, conditions, and application.
 - 3. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch or coarse sand, as recommended by underlayment manufacturer.
 - 4. Compressive Strength: Not less than 5000 psi at 28 days when tested in accordance with ASTM C109/C109M.
- B. Repair Overlayment: Cement-based, polymer-modified, self-leveling product that can be applied in thicknesses from 1/4 inch and that can be filled in over a scarified surface to match adjacent floor elevations.
 - 1. Cement Binder: ASTM C150/C150M portland cement or hydraulic or blended hydraulic cement, as defined in ASTM C219.
 - 2. Primer: Product of topping manufacturer recommended for substrate, conditions, and application.
 - 3. Aggregate: Well-graded, washed gravel, 1/8 to 1/4 inch or coarse sand as recommended by topping manufacturer.
 - 4. Compressive Strength: Not less than 5000 psi at 28 days when tested in accordance with ASTM C109/C109M.

2.9 CONCRETE MIXTURES, GENERAL

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, in accordance with ACI 301.
 - 1. Use a qualified testing agency for preparing and reporting proposed mixture designs, based on laboratory trial mixtures.
- B. Cementitious Materials: Limit percentage, by weight, of cementitious materials other than portland cement in concrete as follows:
 - 1. Fly Ash or Other Pozzolans: 25 percent by mass.
 - 2. Slag Cement: 50 percent by mass.
 - 3. Silica Fume: 10 percent by mass.
 - 4. Total of Fly Ash or Other Pozzolans, Slag Cement, and Silica Fume: 50 percent by mass, with fly ash or pozzolans not exceeding 25 percent by mass and silica fume not exceeding 10 percent by mass.
 - 5. Total of Fly Ash or Other Pozzolans and Silica Fume: 35 percent by mass with fly ash or pozzolans not exceeding 25 percent by mass and silica fume not exceeding 10 percent by mass.
- C. Admixtures: Use admixtures in accordance with manufacturer's written instructions.
 - 1. Use water-reducing admixture in concrete, as required, for placement and workability.
 - 2. Use water-reducing and -retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.

3. Use water-reducing admixture in pumped concrete, concrete for heavy-use industrial slabs concrete for parking structure slabs, and concrete with a w/cm below 0.50.
 4. Use corrosion-inhibiting admixture in concrete mixtures where indicated.
 5. Use permeability-reducing admixture in concrete mixtures where indicated.
- D. Color Pigment: Add color pigment to concrete mixture in accordance with manufacturer's written instructions and to result in hardened concrete color consistent with approved mockup.

2.10 CONCRETE MIXTURES

- A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301 (ACI 301M)
1. Use a qualified independent testing agency for preparing and reporting proposed mixture designs based on laboratory trial mixtures.
 2. Concrete mix designs shall comply with the requirements of the structural drawings.
- B. Prepare Environmental Product Declaration (EPD) Sustainable Design Submittal[s]:
1. For a minimum of 95% by volume of the cast-in-place concrete (100% by volume of structural concrete), submit Environmental Product Declarations in accordance with the Product Category Rules (PCR) for ISO 14025 Type III Environmental Product Declarations (EPDs) for Concrete.
 2. Calculate the weighted average Benchmark Global Warming Potential (GWP) for the volume of concrete with EPDs. The calculation shall include:
 - a. A list of all classes of concrete used in the project. A class of concrete is determined by the 28-day specified design compressive strength (i.e. 3000 psi concrete, 4000 psi concrete).
 - b. A list of the projected volume of each class of concrete to be used in the project. The total volume reported per class shall match the total volume of concrete listed in the weighted average Proposed Mix GWP calculations.
 - c. A list of the GWP for each class of concrete for the 2021 CLF material baseline report. These benchmarks are as follows:

Concrete Class Required f'c at 28 days	Benchmark Global Warming Potential (GWP) kg CO ²	
3000 psi Concrete	210	per m ³
5000 psi Concrete	320	per m ³
6000 psi Concrete	330	per m ³
8000 psi Concrete	380	per m ³

All Benchmark GWP values shall be based on the 28 day minimum required compressive strength of concrete as listed in the Contract Documents.

Interpolation is permitted to determine GWP values for concrete classes between the values shown in the table.

- d. Calculate the weighted average Benchmark GWP for the volume of concrete corresponding to the Proposed Mix Designs with EPDs as follows:

$$GWP_{AVG \text{ BENCHMARK}} = \frac{\sum_{i=1}^n [GWP_{i \text{ BENCHMARK}} \times Volume_i]}{\sum_{i=1}^n Volume_i}$$

Where:

$GWP_{i \text{ BENCHMARK}}$ = benchmark global warming potential for concrete class i

$Volume_i$ = volume of concrete for concrete class i
 n = total number of classes of concrete

- e. The calculated weighted average Benchmark GWP shall be submitted to the

Architect at the time of mix design submittal and at the end of construction. The calculation at the end of construction shall use the actual volumes used during construction.

3. Calculate the weighted average Proposed Mix GWP for the volume of concrete with EPDs. The calculation shall include:
 - a. A list of all mixes proposed to be used on the project. This list shall include the supplier, mix design number, supply plant location, EPD Program Operator, EPD Developer, EPD issue date, and EPD expiration date for every mix.
 - b. A list of the projected volume of each mix to be used on the project. The total volume reported shall match the total volume of concrete listed in the Benchmark average GWP calculations.
 - c. A list of GWP, as shown on the mix's EPD, for each proposed mix.
 - d. Calculate the weighted average Proposed Mix GWP as follows:

$$GWP_{AVG\ PROPOSED} = \frac{\sum_{i=1}^n [GWP_{i\ PROPOSED} \times Volume_i]}{\sum_{i=1}^n Volume_i}$$

Where:

$GWP_{i\ PROPOSED}$ = global warming potential for proposed mix i
 $Volume_i$ = volume of concrete for proposed mix i
n = total number of proposed mixes of concrete

- e. The calculated weighted average Proposed Mix GWP shall be submitted to the Architect at the time of mix design submittal and at the end of construction. The calculation at the end of construction shall use the actual volumes and mix GWP values used during construction.
4. Percent reduction calculation:
 - a. Calculate the percent reduction in weighted average Proposed Mix GWP as compared to the weighted average Benchmark GWP as follows:
$$\% \text{ Reduction} = \frac{GWP_{AVG\ BASELINE} - GWP_{AVG\ PROPOSED}}{GWP_{AVG\ BASELINE}} \times 100$$
 - b. Submit the calculations for percent reduction to the Architect at the time of mix design submittal and at the end of construction. The calculation at the end of construction shall use the actual volumes and mix GWP values used during construction.
 - c. Provide concrete mixes such that the percent reduction in weighted average Proposed Mix GWP as compared to the weighted average Benchmark GWP shall be a minimum of 10%.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verification of Conditions:

1. Before placing concrete, verify that installation of concrete forms, accessories, and reinforcement, and embedded items is complete and that required inspections have been performed.
2. Do not proceed until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Provide reasonable auxiliary services to accommodate field testing and inspections, acceptable to testing agency, including the following:

1. Daily access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Secure space for storage, initial curing, and field curing of test samples, including source of water and continuous electrical power at Project site during site curing period for test

samples.

4. Security and protection for test samples and for testing and inspection equipment at Project site.

3.3 INSTALLATION OF EMBEDDED ITEMS

- A. Place and secure anchorage devices and other embedded items required for adjoining Work that is attached to or supported by cast-in-place concrete.

1. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
2. Install anchor rods, accurately located, to elevations required and complying with tolerances in Section 7.5 of ANSI/AISC 303.
3. Install reglets to receive waterproofing and to receive through-wall flashings in outer face of concrete frame at exterior walls, where flashing is shown at lintels, shelf angles, and other conditions.

3.4 INSTALLATION OF VAPOR RETARDER

- A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder in accordance with ASTM E1643 and manufacturer's written instructions.

1. Install vapor retarder with longest dimension parallel with direction of concrete pour.
2. Face laps away from exposed direction of concrete pour.
3. Lap vapor retarder over footings and grade beams not less than 6 inches, sealing vapor retarder to concrete.
4. Lap joints 6 inches and seal with manufacturer's recommended tape.
5. Terminate vapor retarder at the top of floor slabs, grade beams, and pile caps, sealing entire perimeter to floor slabs, grade beams, foundation walls, or pile caps.
6. Seal penetrations in accordance with vapor retarder manufacturer's instructions.
7. Protect vapor retarder during placement of reinforcement and concrete.

- a. Repair damaged areas by patching with vapor retarder material, overlapping damages area by 6 inches on all sides, and sealing to vapor retarder.

- B. Bituminous Vapor Retarders: Place, protect, and repair bituminous vapor retarder in accordance with manufacturer's written instructions.

3.5 JOINTS

- A. Construct joints true to line, with faces perpendicular to surface plane of concrete.

- B. Construction Joints: Coordinate with floor slab pattern and concrete placement sequence.

1. Install so strength and appearance of concrete are not impaired, at locations indicated on Drawings or as approved by Architect.
2. Place joints perpendicular to main reinforcement.
 - a. Continue reinforcement across construction joints unless otherwise indicated.
 - b. Do not continue reinforcement through sides of strip placements of floors and slabs.
3. Form keyed joints as indicated. Embed keys at least 1-1/2 inches into concrete.
4. Locate joints for beams, slabs, joists, and girders at third points of spans. Offset joints in girders a minimum distance of twice the beam width from a beam-girder intersection.
5. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.

6. Space vertical joints in walls as indicated on Drawings. Unless otherwise indicated on Drawings, locate vertical joints beside piers integral with walls, near corners, and in concealed locations where possible.
 7. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
 8. Use epoxy-bonding adhesive at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
- C. Control Joints in Slabs-on-Ground: Form weakened-plane control joints, sectioning concrete into areas as indicated. Construct control joints for a depth equal to at least one-fourth of concrete thickness as follows:
1. Grooved Joints: Form control joints after initial floating by grooving and finishing each edge of joint to a radius of 1/8 inch. Repeat grooving of control joints after applying surface finishes. Eliminate groover tool marks on concrete surfaces.
 2. Sawed Joints: Form control joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints into concrete when cutting action does not tear, abrade, or otherwise damage surface and before concrete develops random cracks.
- D. Doweled Joints:
1. Install dowel bars and support assemblies at joints where indicated on Drawings.
 2. Lubricate or asphalt coat one-half of dowel bar length to prevent concrete bonding to one side of joint.
- 3.6 CONCRETE PLACEMENT
- A. Before placing concrete, verify that installation of formwork, reinforcement, embedded items, and vapor retarder is complete and that required inspections are completed.
1. Immediately prior to concrete placement, inspect vapor retarder for damage and deficient installation, and repair defective areas.
 2. Provide continuous inspection of vapor retarder during concrete placement and make necessary repairs to damaged areas as Work progresses.
- B. Notify Architect and testing and inspection agencies 24 hours prior to commencement of concrete placement.
- C. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect in writing, but not to exceed the amount indicated on the concrete delivery ticket.
1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- D. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301, but not to exceed the amount indicated on the concrete delivery ticket.
1. Do not add water to concrete after adding high-range water-reducing admixtures to mixture.
- E. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete is placed on concrete that has hardened enough to cause seams or planes of weakness.
1. If a section cannot be placed continuously, provide construction joints as indicated.
 2. Deposit concrete to avoid segregation.

3. Deposit concrete in horizontal layers of depth not to exceed formwork design pressures and in a manner to avoid inclined construction joints.
4. Consolidate placed concrete with mechanical vibrating equipment in accordance with ACI 301.
 - a. Do not use vibrators to transport concrete inside forms.
 - b. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer.
 - c. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity.
 - d. At each insertion, limit duration of vibration to time necessary to consolidate concrete, and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
- F. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
 1. Do not place concrete floors and slabs in a checkerboard sequence.
 2. Consolidate concrete during placement operations, so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 3. Maintain reinforcement in position on chairs during concrete placement.
 4. Screed slab surfaces with a straightedge and strike off to correct elevations.
 5. Level concrete, cut high areas, and fill low areas.
 6. Slope surfaces uniformly to drains where required.
 7. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleedwater appears on the surface.
 8. Do not further disturb slab surfaces before starting finishing operations.

3.7 INSTALLATION OF MISCELLANEOUS CONCRETE ITEMS

- A. Filling In:
 1. Fill in holes and openings left in concrete structures after Work of other trades is in place unless otherwise indicated.
 2. Mix, place, and cure concrete, as specified, to blend with in-place construction.
 3. Provide other miscellaneous concrete filling indicated or required to complete the Work.
- B. Curbs: Provide monolithic finish to interior curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded.
- C. Equipment Bases and Foundations:
 1. Coordinate sizes and locations of concrete bases with actual equipment provided.
 2. Construct concrete bases 6 inches high unless otherwise indicated on Drawings, and extend base not less than 6 inches in each direction beyond the maximum dimensions of supported equipment unless otherwise indicated on Drawings, or unless required for seismic anchor support.
 3. Minimum Compressive Strength: specified on Structural Drawing at 28 days.
 4. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch centers around the full perimeter of concrete base.
 5. For supported equipment, install epoxy-coated anchor bolts that extend through concrete base and anchor into structural concrete substrate.
 6. Prior to pouring concrete, place and secure anchorage devices.

- a. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
- b. Cast anchor-bolt insert into bases.
- c. Install anchor bolts to elevations required for proper attachment to supported equipment.

3.8 CONCRETE CURING

- A. Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
 1. Comply with ACI 301 and ACI 306.1 for cold weather protection during curing.
 2. Comply with ACI 301 and ACI 305.1 for hot-weather protection during curing.
 3. Maintain moisture loss no more than 0.2 lb/sq. ft. x h, calculated in accordance with ACI 305.1, before and during finishing operations.
- B. Curing Formed Surfaces: Comply with ACI 308.1 as follows:
 1. Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces.
 2. Cure concrete containing color pigments in accordance with color pigment manufacturer's instructions.
 3. If forms remain during curing period, moist cure after loosening forms.
 4. If removing forms before end of curing period, continue curing for remainder of curing period, as follows:
 - a. Continuous Fogging: Maintain standing water on concrete surface until final setting of concrete.
 - b. Continuous Sprinkling: Maintain concrete surface continuously wet.
 - c. Absorptive Cover: Pre-dampen absorptive material before application; apply additional water to absorptive material to maintain concrete surface continuously wet.
 - d. Water-Retention Sheeting Materials: Cover exposed concrete surfaces with sheeting material, taping, or lapping seams.
 - e. Membrane-Forming Curing Compound: Apply uniformly in continuous operation by power spray or roller in accordance with manufacturer's written instructions.
 - 1) Recoat areas subject to heavy rainfall within three hours after initial application.
 - 2) Maintain continuity of coating and repair damage during curing period.
- C. Curing Unformed Surfaces: Comply with ACI 308.1 as follows:
 1. Begin curing immediately after finishing concrete.

3.9 TOLERANCES

- A. Conform to ACI 117.

3.10 APPLICATION OF LIQUID FLOOR TREATMENTS

- A. Penetrating Liquid Floor Treatment: Prepare, apply, and finish penetrating liquid floor treatment in accordance with manufacturer's written instructions.
 1. Remove curing compounds, sealers, oil, dirt, laitance, and other contaminants and complete surface repairs.
 2. Do not apply to concrete that is less than 28 days' old, unless manufacturer's written instructions state otherwise.
 3. Apply liquid until surface is saturated, scrubbing into surface until a gel forms; rewet; and

- repeat brooming or scrubbing.
- 4. Rinse with water; remove excess material until surface is dry.
- 5. Apply a second coat in a similar manner if surface is rough or porous.

- B. Sealing Coat: Uniformly apply a continuous sealing coat of curing and sealing compound to hardened concrete by power spray or roller in accordance with manufacturer's written instructions.

3.11 JOINT FILLING

- A. Prepare, clean, and install joint filler in accordance with manufacturer's written instructions.
 - 1. Defer joint filling until concrete has aged at least one month.
 - 2. Do not fill joints until construction traffic has permanently ceased.
- B. Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints; leave contact faces of joints clean and dry.
- C. Install semirigid joint filler full depth in saw-cut joints and at least 2 inches deep in formed joints.
- D. Overfill joint, and trim joint filler flush with top of joint after hardening.

3.12 CONCRETE SURFACE REPAIRS

- A. Defective Concrete:
 - 1. Repair and patch defective areas when approved by Architect.
 - 2. Remove and replace concrete that cannot be repaired and patched to Architect's approval.
- B. Patching Mortar: Mix dry-pack patching mortar, consisting of 1 part portland cement to 2-1/2 parts fine aggregate passing a No. 16 sieve, using only enough water for handling and placing.
- C. Repairing Formed Surfaces: Surface defects include color and texture irregularities, cracks, spalls, air bubbles, honeycombs, rock pockets, fins and other projections on the surface, and stains and other discolorations that cannot be removed by cleaning.
 - 1. Immediately after form removal, cut out honeycombs, rock pockets, and voids more than 1/2 inch in any dimension to solid concrete.
 - a. Limit cut depth to 3/4 inch.
 - b. Make edges of cuts perpendicular to concrete surface.
 - c. Clean, dampen with water, and brush-coat holes and voids with bonding agent.
 - d. Fill and compact with patching mortar before bonding agent has dried.
 - e. Fill form-tie voids with patching mortar or cone plugs secured in place with bonding agent.
 - f. Repair defects on surfaces exposed to view by blending white portland cement and standard portland cement, so that, when dry, patching mortar matches surrounding color. Patch a test area at inconspicuous locations to verify mixture and color match before proceeding with patching.
 - g. Compact mortar in place and strike off slightly higher than surrounding surface.
 - 2. Repair defects on concealed formed surfaces that will affect concrete's durability and structural performance as determined by Architect.
- D. Repairing Unformed Surfaces:
 - 1. Test unformed surfaces, such as floors and slabs, for finish, and verify surface tolerances

specified for each surface.

- a. Correct low and high areas.
 - b. Test surfaces sloped to drain for trueness of slope and smoothness; use a sloped template.
2. Repair finished surfaces containing surface defects, including spalls, popouts, honeycombs, rock pockets, crazing, and cracks in excess of 0.01 inch wide or that penetrate to reinforcement or completely through unreinforced sections regardless of width, and other objectionable conditions.
 3. After concrete has cured at least 14 days, correct high areas by grinding.
 4. Correct localized low areas during, or immediately after, completing surface-finishing operations by cutting out low areas and replacing with patching mortar.
 - a. Finish repaired areas to blend into adjacent concrete.
 5. Correct other low areas scheduled to receive floor coverings with a repair underlayment.
 - a. Prepare, mix, and apply repair underlayment and primer in accordance with manufacturer's written instructions to produce a smooth, uniform, plane, and level surface.
 - b. Feather edges to match adjacent floor elevations.
 6. Correct other low areas scheduled to remain exposed with repair topping.
 - a. Cut out low areas to ensure a minimum repair topping depth of 1/4 inch to match adjacent floor elevations.
 - b. Prepare, mix, and apply repair topping and primer in accordance with manufacturer's written instructions to produce a smooth, uniform, plane, and level surface.
 7. Repair defective areas, except random cracks and single holes 1 inch or less in diameter, by cutting out and replacing with fresh concrete.
 - a. Remove defective areas with clean, square cuts, and expose steel reinforcement with at least a 3/4-inch clearance all around.
 - b. Dampen concrete surfaces in contact with patching concrete and apply bonding agent.
 - c. Mix patching concrete of same materials and mixture as original concrete, except without coarse aggregate.
 - d. Place, compact, and finish to blend with adjacent finished concrete.
 - e. Cure in same manner as adjacent concrete.
 8. Repair random cracks and single holes 1 inch or less in diameter with patching mortar.
 - a. Groove top of cracks and cut out holes to sound concrete, and clean off dust, dirt, and loose particles.
 - b. Dampen cleaned concrete surfaces and apply bonding agent.
 - c. Place patching mortar before bonding agent has dried.
 - d. Compact patching mortar and finish to match adjacent concrete.
 - e. Keep patched area continuously moist for at least 72 hours.
- E. Perform structural repairs of concrete, subject to Architect's approval, using epoxy adhesive and patching mortar.
- F. Repair materials and installation not specified above may be used, subject to Architect's

approval.

3.13 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a special inspector to perform field tests and inspections and prepare testing and inspection reports.
- B. Testing Agency: Engage a qualified testing and inspecting agency to perform tests and inspections and to submit reports.
 - 1. Testing agency to be responsible for providing curing container for composite samples on Site and verifying that field-cured composite samples are cured in accordance with ASTM C31/C31M.
 - 2. Testing agency to immediately report to Architect, Contractor, and concrete manufacturer any failure of Work to comply with Contract Documents.
 - 3. Testing agency to report results of tests and inspections, in writing, to Owner, Architect, Contractor, and concrete manufacturer within 48 hours of inspections and tests.
 - a. Test reports to include reporting requirements of ASTM C31/C31M, ASTM C39/C39M, and ACI 301, including the following as applicable to each test and inspection:
 - 1) Project name.
 - 2) Name of testing agency.
 - 3) Names and certification numbers of field and laboratory technicians performing inspections and testing.
 - 4) Name of concrete manufacturer.
 - 5) Date and time of inspection, sampling, and field testing.
 - 6) Date and time of concrete placement.
 - 7) Location in Work of concrete represented by samples.
 - 8) Date and time sample was obtained.
 - 9) Truck and batch ticket numbers.
 - 10) Design compressive strength at 28 days.
 - 11) Concrete mixture designation, proportions, and materials.
 - 12) Field test results.
 - 13) Information on storage and curing of samples before testing, including curing method and maximum and minimum temperatures during initial curing period.
 - 14) Type of fracture and compressive break strengths at seven days and 28 days.
- C. Batch Tickets: For each load delivered, submit three copies of batch delivery ticket to testing agency, indicating quantity, mix identification, admixtures, design strength, aggregate size, design air content, design slump at time of batching, and amount of water that can be added at Project site.
- D. Inspections:
 - 1. Headed bolts and studs.
 - 2. Verification of use of required design mixture.
 - 3. Concrete placement, including conveying and depositing.
 - 4. Curing procedures and maintenance of curing temperature.
 - 5. Verification of concrete strength before removal of shores and forms from beams and slabs.
 - 6. Batch Plant Inspections: On a random basis, as determined by Architect.
- E. Concrete Tests: Testing of composite samples of fresh concrete obtained in accordance with ASTM C 172/C 172M to be performed in accordance with the following requirements:

1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. or fraction thereof.
 - a. When frequency of testing provides fewer than five compressive-strength tests for each concrete mixture, testing to be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
2. Slump: ASTM C143/C143M:
 - a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.
 - b. Perform additional tests when concrete consistency appears to change.
3. Slump Flow: ASTM C1611/C1611M:
 - a. One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture.
 - b. Perform additional tests when concrete consistency appears to change.
4. Air Content: ASTM C231/C231M pressure method, for normal-weight concrete; ASTM C173/C173M volumetric method, for structural lightweight concrete.
 - a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
5. Concrete Temperature: ASTM C1064/C1064M:
 - a. One test hourly when air temperature is 40 deg F and below or 80 deg F and above, and one test for each composite sample.
6. Unit Weight: ASTM C567/C567M fresh unit weight of structural lightweight concrete.
 - a. One test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
7. Compression Test Specimens: ASTM C31/C31M:
 - a. Cast and laboratory cure two sets of three 6-inch by 12-inch cylinder specimens for each composite sample.
 - b. Cast, initial cure, and field cure two sets of three standard cylinder specimens for each composite sample.
8. Compressive-Strength Tests: ASTM C39/C39M.
 - a. Test one set of three laboratory-cured specimens at seven days and one set of two specimens at 28 days.
 - b. Test one set of three field-cured specimens at seven days and one set of two specimens at 28 days.
 - c. A compressive-strength test to be the average compressive strength from a set of two specimens obtained from same composite sample and tested at age indicated.
9. When strength of field-cured cylinders is less than 85 percent of companion laboratory-cured cylinders, Contractor to evaluate operations and provide corrective procedures for protecting and curing in-place concrete.
10. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive

strength, and no compressive-strength test value falls below specified compressive strength by more than 500 psi if specified compressive strength is 5000 psi, or no compressive strength test value is less than 10 percent of specified compressive strength if specified compressive strength is greater than 5000 psi.

11. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
 12. Additional Tests:
 - a. Testing and inspecting agency to make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect.
 - b. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C42/C42M or by other methods as directed by Architect.
 - 1) Acceptance criteria for concrete strength to be in accordance with ACI 301, Section 1.6.6.3.
 13. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
 14. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.
- F. Measure floor and slab flatness and levelness in accordance with ASTM E1155 within 48 hours of completion of floor finishing and promptly report test results to Architect.

3.14 PROTECTION

- A. Protect concrete surfaces as follows:
1. Protect from petroleum stains.
 2. Diaper hydraulic equipment used over concrete surfaces.
 3. Prohibit vehicles from interior concrete slabs.
 4. Prohibit use of pipe-cutting machinery over concrete surfaces.
 5. Prohibit placement of steel items on concrete surfaces.
 6. Prohibit use of acids or acidic detergents over concrete surfaces.
 7. Protect liquid floor treatment from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by liquid floor treatments installer.
 8. Protect concrete surfaces scheduled to receive surface hardener or polished concrete finish using Floor Slab Protective Covering.

END OF SECTION 033000

SECTION 035413 - GYPSUM CEMENT UNDERLAYMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Self-leveling, gypsum cement underlayment for application below interior floor coverings.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site

1.3 ACTION SUBMITTALS

A. Product Data: For the following:

1. Gypsum cement underlayment.
2. Reinforcement.
3. Primer.
4. Corrosion-resistant coating.
5. Surface sealer.
6. Sound control mat.

- B. Shop Drawings: Include plans indicating substrates, locations, and average depths of underlayment based on survey of substrate conditions.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.

B. Test Reports:

1. For fire-resistant ratings, from a qualified testing agency.
2. For STC-rated assemblies, from a qualified testing agency.
3. For IIC-rated assemblies, from a qualified testing agency.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Installer who is approved by manufacturer for application of underlayment products required for this Project.

1.6 FIELD CONDITIONS

- A. Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ventilation, ambient temperature and humidity, and other conditions affecting underlayment performance.
 - 1. Place gypsum cement underlayments only when ambient temperature and temperature of substrates are between 50 and 80 deg F (10 and 27 deg C).

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Resistance Ratings: Comply with ASTM E119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1. Indicate design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.
- B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated, according to ASTM E90 and classified according to ASTM E413 by an independent testing agency.
 - 1. STC Rating: 60.
- C. IIC-Rated Assemblies: For IIC-rated assemblies, provide materials and construction identical to those tested in assembly indicated, according to ASTM E492 and classified according to ASTM E989 by an independent testing agency.
 - 1. IIC Rating: 50.

2.2 GYPSUM CEMENT UNDERLAYMENTS

- A. Gypsum Cement Underlayment: Self-leveling, gypsum cement product that can be applied in minimum uniform thickness of 1 ¼".
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. USG: Levelrock 4500FR (Basis of Design)
 - b. ARDEX Americas.
 - c. Hacker Industries, Inc.
 - d. Maxxon Corporation.
 - e. USG Corporation.
 - 2. Cement Binder: Gypsum or blended gypsum cement as defined by ASTM C219.
 - 3. Compressive Strength: Not less 4500- 5500 psi at 28 days when tested according to ASTM C472.

4. Underlayment Additive: Resilient-emulsion product of underlayment manufacturer, formulated for use with underlayment when applied to substrate and conditions indicated.
- B. Water: Potable and at a temperature of not more than 70 deg F (21 deg C).
- C. Reinforcement: For underlayment applied to wood substrates, provide galvanized metal lath or other corrosion-resistant reinforcement recommended in writing by underlayment manufacturer.
- D. Primer: Product of underlayment manufacturer recommended in writing for substrate, conditions, and application indicated.
- E. Corrosion-Resistant Coating: Recommended in writing by underlayment manufacturer for metal substrates.
- F. Surface Sealer: Designed to reduce porosity as recommended by manufacturer for type of floor covering to be applied to underlayment.

2.3 ACCESSORIES

- A. Sound Control Mat: As required to meet STC and IIC ratings, manufactured by gypsum cement underlayment manufacturer.
 1. USG SRM-25 Sound Reduction Mat (Basis of Design)
 - a. Thickness: 1/4 inch (6 mm).

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, with Installer present, for conditions affecting performance of the Work.
- B. Proceed with application only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Prepare and clean substrate according to manufacturer's written instructions.
 1. Treat nonmoving substrate cracks according to manufacturer's written instructions to prevent cracks from telegraphing (reflecting) through underlayment.
 2. Fill substrate voids to prevent underlayment from leaking.

- B. Wood Substrates: Mechanically fasten loose boards and panels to eliminate substrate movement and squeaks. Sand to remove coatings that might impair underlayment bond and remove sanding dust.
 - 1. Install underlayment reinforcement recommended in writing by manufacturer.
- C. Sound Control Mat: Install sound control materials according to manufacturer's written instructions.
 - 1. Do not install mechanical fasteners that penetrate through the sound control materials.

3.3 INSTALLATION

- A. Mix and install underlayment components according to manufacturer's written instructions.
 - 1. Close areas to traffic during underlayment installation and for time period after installation recommended in writing by manufacturer.
 - 2. Coordinate installation of components to provide optimum adhesion to substrate and between coats.
 - 3. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.
- B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Install underlayment to produce uniform, level surface.
 - 1. Install a final layer without aggregate to product surface.
 - 2. Feather edges to match adjacent floor elevations.
- D. Cure underlayment according to manufacturer's written instructions. Prevent contamination during installation and curing processes.
- E. Do not install floor coverings over underlayment until after time period recommended in writing by underlayment manufacturer.
- F. Apply surface sealer at rate recommended by manufacturer.
- G. Remove and replace underlayment areas that evidence lack of bond with substrate, including areas that emit a "hollow" sound when tapped.

3.4 INSTALLATION TOLERANCES

- A. Finish and measure surface, so gap at any point between gypsum cement underlayment surface and an unlevelled, freestanding, ~~10-foot-~~ (3.05-m-) long straightedge resting on two high spots and placed anywhere on the surface does not exceed ~~3/16 inch~~ (4.8 mm).

3.5 PROTECTION

- A. Protect underlayment from concentrated and rolling loads for remainder of construction period.

END OF SECTION 035413

SECTION 071700 - BENTONITE WATERPROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Geotextile/bentonite sheets.

B. Related Requirements:

1. Section 312000 "Earth Moving" for excavating and backfilling.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1. Include construction details, material descriptions, and installation instructions.

1.4 INFORMATIONAL SUBMITTALS

- A. Product Certificates: For each type of waterproofing material.

- B. Preconstruction Test Reports: For water samples taken at Project site along with recommendations resulting from these tests.

- C. Field quality-control reports.

- D. Sample Warranty: For manufacturer's special warranty.

1.5 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit bentonite waterproofing to be installed according to manufacturer's written instructions and warranty requirements.

1. Do not apply waterproofing materials to surfaces where ice or frost is visible. Do not apply bentonite waterproofing materials in areas with standing water.
2. Do not place bentonite clay products in panel or composite form on damp surfaces unless such practice is approved in writing by manufacturer.

1.6 WARRANTY

- A. Special Warranty: Manufacturer and Installer agree(s) to repair or replace components of bentonite waterproofing system that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 GEOTEXTILE/BENTONITE SHEETS

- A. Polyethylene-Lined Geotextile/Bentonite Sheet: Minimum of **1.0 lb/sq. ft. (5 kg/sq. m)** of bentonite clay granules between two layers of geotextile fabric, heat-fused together; and with a low-permeability polyethylene geomembrane bonded to one surface.
1. Basis-of-Design Product: Subject to compliance with requirements, provide CETCO; Voltex Waterproofing Membrane or comparable product by one of the following:
 - a. W.R. Meadows.
 - b. Or approved equakl
 2. Grab Tensile Strength: **120 lbf (422 N)** in accordance with ASTM D4632.
 3. Puncture Resistance: **140 lbf (445 N)** in accordance with ASTM D4833.

2.2 ACCESSORIES

- A. Granular Bentonite: Sodium bentonite clay containing a minimum of 90 percent montmorillonite (hydrated aluminum silicate), with a minimum of 90 percent passing a **No. 20 (0.85 mm)** sieve.
- B. Bentonite Mastic: Bentonite compound of trowelable consistency, specifically formulated for application at joints and penetrations.
- C. Bentonite Tubes: Manufacturer's standard **2-inch- (50-mm-)** diameter, water-soluble tube containing approximately **1.5 lb/ft. (2.2 kg/m)** of granular bentonite; hermetically sealed; designed specifically for placing on wall footings at line of joint with exterior base of wall.
- D. Termination Bar: Extruded-aluminum or formed stainless steel bars with upper flange to receive sealant.
- E. Plastic Protection Sheet: Polyethylene sheeting in accordance with ASTM D4397; thickness as recommended in writing by waterproofing manufacturer to suit application but at least **6 mils (0.15 mm)** thick.
- F. Cement Grout Patching Material: Grout mix compatible with substrate being patched and recommended in writing by waterproofing manufacturer.

- G. Masonry Fasteners: Case-hardened nails or hardened-steel, powder-actuated fasteners. Depending on manufacturer's written requirements, provide 1/2- or 1-inch- (13- or 25-mm-) diameter washers under fastener heads.
- H. Sealants: As recommended in writing by waterproofing manufacturer. Comply with requirements specified in Section 079200 "Joint Sealants."
- I. Tapes: Waterproofing manufacturer's recommended waterproof tape for joints between sheets, membranes, or panels.
- J. Adhesive: Waterproofing manufacturer's water-based adhesive used to secure waterproofing to both vertical and horizontal surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrate preparations and other conditions affecting performance of bentonite waterproofing.
- B. Examine bentonite materials before installation. Reject materials that have been prematurely exposed to moisture.
- C. Verify that substrate is complete and that work that will penetrate waterproofing is complete and rigidly installed.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean, prepare, and treat substrates according to manufacturer's written instructions.
- B. Formed Concrete Surfaces: Remove fins and projections. Fill voids, rock pockets, form-tie holes, and other defects with bentonite mastic or cement grout patching material according to manufacturer's written instructions.
- C. Horizontal Concrete Surfaces: Remove debris, standing water, oily substances, mud, and similar substances that could impair the bonding ability of concrete or the effectiveness of waterproofing. Fill voids, cracks greater than 1/8 inch (3 mm), honeycomb areas, and other defects with bentonite mastic or cement grout patching material according to manufacturer's written instructions.
- D. Excavation Support and Protection System: If water is seeping, use plastic protection sheets or other suitable means to prevent wetting the bentonite waterproofing. Fill minor gaps and spaces 1/8 inch (3 mm) wide or wider with wood, metal, concrete, or other appropriate filling material. Cover or fill large voids and crevices with cement mortar according to manufacturer's written instructions.

3.3 INSTALLATION, GENERAL

- A. Prepare substrates, voids, cracks, and cavities; and install waterproofing and accessories according to manufacturer's written instructions.
 - 1. Before installing, verify the correct side of waterproofing that faces substrate surface.
 - 2. Apply granular bentonite around penetrations in horizontal surfaces and changes in plane according to manufacturer's details in preparation for bentonite tubes and mastic.
 - 3. Apply bentonite tubes, bentonite mastic, or both at changes of plane, construction joints in substrate, projections, and penetrations.
 - 4. Prime concrete substrates. Primer may be omitted on concrete surfaces that comply with manufacturer's written requirements for dryness, surface texture, and freedom from imperfections.
- B. Apply bentonite tubes continuously on footing against base of wall to be waterproofed.
- C. Protect waterproofing from damage and wetting before and during subsequent construction operations. Repair punctures, tears, and cuts.
- D. Install protection course before backfilling or placing overburden when recommended in writing by waterproofing manufacturer.

3.4 INSTALLATION OF GEOTEXTILE/BENTONITE SHEETS

- A. Below Structural Slabs-on-Grade at elevator pit: Place waterproofing sheets on compacted substrate with ends and edges lapped and stapled.
- B. Termination:
 - 1. Lap Vapor Barrier over top of Waterproofing.

END OF SECTION 071700

SECTION 083343 - OVERHEAD COILING SMOKE CURTAINS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Smoke-protective curtain assemblies for elevator entrances.

B. Related Requirements:

1. Section 14 24 00 – Hydraulic Elevators
2. Section 28 31 00 Fire Sprinkler Monitoring and Alarm

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 COORDINATION

- A. Coordinate smoke curtain assemblies with power, signal, fire-alarm, and smoke-detection systems specified in Division 26 and Division 28.
- B. Coordinate elevator smoke-protective curtain assemblies with elevator hoistway door frames specified in Division 14.
- C. Coordinate smoke-protective curtain assemblies with ceilings for operational clearances and maintenance access requirements.
- D. Coordinate smoke-protective curtain assemblies with walls for support requirements, rating continuity above ceilings, and recessed wall switches.
- E. Coordinate requirements for metal supports required for smoke-protective curtain assemblies.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of smoke-protective curtain assembly and draft curtain.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for smoke curtains.
2. Include points of attachment and their corresponding static and dynamic loads imposed on structure.

3. Include ratings, operating components, electrical characteristics, control systems, and furnished specialties and accessories.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data.
1. Include plans, elevations, sections, and attachment details.
 2. Include details of smoke curtain assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location of each field connection.
 3. Include points of attachment and their corresponding static and dynamic loads imposed on structure.
 4. Detail fabrication and assembly of fire-protective curtain assemblies.
 5. Show locations of controls, detectors, and other accessories.
 6. Include diagrams for power, signal, and control wiring.
- C. Samples: For each exposed product and for each color and texture specified, 6 inches (152 mm) in length.
- D. Samples for Initial Selection: Manufacturer's finish charts showing full range of material and finish options available for units with factory-applied finishes.
1. Curtain guide.
 2. Bottom bar.
- E. Samples for Verification: For each type of exposed finish, in manufacturer's standard sizes.
1. Curtain guide
 2. Bottom bar.
- F. Product Schedule: For smoke curtain assemblies.
- 1.5 INFORMATIONAL SUBMITTALS
- A. Qualification Data: For Installer, manufacturer, testing agency, and factory-authorized service representative.
 - B. Evaluation Reports: For curtain assemblies, from ICC-ES or another qualified testing agency.
 - C. Field quality-control reports.
 - D. Sample Warranty: For manufacturer's special warranty.
- 1.6 CLOSEOUT SUBMITTALS
- A. Operation and Maintenance Data: For smoke curtain assemblies to include in emergency, operation, and maintenance manuals.

- B. Field quality-control reports for required testing.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: An entity experienced in manufacturing smoke-and-draft-control curtain assemblies that have been successfully installed in compliance with requirements of authorities having jurisdiction.
- B. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer for both installation and maintenance of units required for this Project.
- C. Smoke-Protective Curtain Assembly Inspector Qualifications: Inspector for field quality control inspections of smoke-protective curtain assemblies complying with NFPA 105.

1.8 FIELD CONDITIONS

- A. Field Measurements: Field-verify and coordinate dimensions and indicate measurements on Shop Drawings.

1.9 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of curtain assemblies that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS, GENERAL

- A. Source Limitations: Obtain smoke-protective curtains from single source from single manufacturer.
 - 1. Obtain operators and controls from smoke-protective curtain manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Smoke Protective Curtain Assemblies: Provide smoke-protective curtains that are listed and labeled with the letter "S" on the rating label by a qualified testing agency for smoke- and draft-control based on testing in accordance with UL 1784; with maximum air-leakage rate of 3.0 cfm/sq. ft. (0.01524 cu. m/s x sq. m) of opening at 0.10 inch wg (24.9 Pa) for both ambient and elevated temperature tests.
- B. Curtain Fabric Fire-Test-Response Characteristics: Provide products that pass NFPA 701, as determined by testing of fabrics that were treated using treatment-

application method intended for use for this Project by a testing and inspecting agency acceptable to authorities having jurisdiction.

- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.3 SMOKE-PROTECTIVE CURTAIN ASSEMBLIES FOR ELEVATOR ENTRANCES

- A. Alarm-activated transparent-film smoke curtain assembly complying with ICC-ES AC77.
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Smoke Guard, a CSW Industrials Company.; Model M200 – Basis of Design
 - 2. Cookson; a CornellCookson company.
 - 3. Door Systems.
- C. Smoke Containment: Assemblies complying with UL 1784 for air leakage and requirements of ASME 17.1/CSA B44.
- D. Transparent-Film Curtain: Manufacturer's standard transparent film with flame-spread and smoke-developed indexes of 25 and 450, respectively, when tested in accordance with ASTM E84.
- E. Curtain Egress: Provide curtain that is operable from the egress side with less than 15 pounds of release pressure.
- F. Operation: Controlled descent automatically by fail-safe motor-driven deployment and motorized rewind.
- G. Curtain Attachment: Curtain shall form a pressure-resisting seal by one of the following methods:
 - 1. Magnetic Adhesion: With Type 430 ferritic stainless steel elevator door frames, use magnets for closure with door frame. Provide Rails above door head to create seal
 - 2. Auxiliary Rails: With magnetic closure of curtain with incompatible elevator door frame material, provide magnetic stainless steel cladding for door frame, formed from ASTM A240/A240M, Type 430 ferritic stainless steel.
 - a. Finish: Match stainless steel elevator door frame.
- H. Control System: Provide factory-assembled control unit as required for assembly specified.
 - 1. Fail-safe device deploys on activation of local smoke detector and building fire alarm or testing key switch in compliance with UL 864.
 - 2. Curtain Rewind Switch: Include switch to rewind screen into housing.

3. Motor Operator: Provide factory-assembled electric operation system of size and capacity recommended in writing by curtain manufacturer for assembly specified, with electric motors and factory-rewired motor controls, control devices, and accessories required for proper operation.
 4. Electrical Components, Devices, and Accessories: Listed and labeled in accordance with NFPA 70, by a qualified testing agency, and marked for intended location and application.
- I. Housing Type: Sheet metal housings containing support rollers and associated electronics.
1. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
 2. Housing Finish: Manufacturer;s standard powder coat finish in Custom RAL color

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrate areas and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.
- B. Examine locations of electrical connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Smoke-Protective Curtains: Install smoke-protective curtain assemblies in accordance with manufacturer's written installation instructions and NFPA 105.
 1. Install smoke-protective curtain assemblies for elevator entrances in accordance with ASME 17.1/CSA B44.
- B. Power-Operated Curtains: Install in accordance with UL 864.
- C. Install anchorage devices to securely fasten assembly to substrate and building framing without distortion or stress.
- D. Securely brace components suspended from structure.
- E. Fit and align assembly, including vertical guides, level and plumb, to provide smooth operation.

3.3 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified opening protective assembly inspector to perform tests and inspections and to furnish reports to Architect.
- B. Perform the following tests and inspections:
 - 1. Test release mechanism, closing, and alarm operations when activated by smoke detector or building's fire-alarm system. Test manual operation of closed curtain. Reset closing mechanism after successful test.
 - 2. Inspections: Inspect each smoke-protective curtain assembly in accordance with NFPA 105.
- C. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.
- D. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.
- E. Prepare and submit separate inspection report for each smoke-protective curtain assembly indicating compliance with each item listed in NFPA 105.

3.4 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain overhead coiling smoke curtains.

3.5 MAINTENANCE

- A. Engage a manufacturer's authorized service representative to test, adjust, and maintain the smoke-protective assemblies once per year, as required by NFPA 105.

END OF SECTION 083343

SECTION 090561.13 - MOISTURE VAPOR EMISSION CONTROL

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Fluid-applied, resin-based, membrane-forming systems that control the moisture-vapor-emission rate of high-moisture, interior concrete and gypcrete to prepare it for resilient tile flooring installation.

1.2 DEFINITIONS

- A. MVE: Moisture vapor emission.
- B. MVER: Moisture vapor emission rate.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer manufacturer.
- B. Product Test Reports: For each MVE-control system, for tests performed by a qualified testing agency.
- C. Preinstallation testing reports.
- D. Field quality-control reports.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Employs factory-trained personnel who are available for consultation and Project-site inspection.
- B. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating directions for storage and mixing with other components.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Comply with MVE-control system manufacturer's written instructions for substrate and ambient temperatures, humidity, ventilation, and other conditions affecting system installation.
 - 1. Store system components in a temperature-controlled environment and protected from weather and at ambient temperature of not less than 65 deg F (18 deg C) and not more than 85 deg F (29.4 deg C) at least 48 hours before use.
 - 2. Maintain ambient temperature and relative humidity in installation areas within range recommended in writing by MVE-control system manufacturer, but not less than 65 deg F (18 deg C) or more than 85 deg F (29.4 deg C) and not less than 40 or more than 60 percent relative humidity, for 48 hours before installation, during installation, and for 48 hours after installation unless longer period is recommended in writing by manufacturer.
 - 3. Install MVE-control systems where concrete surface temperatures will remain a minimum of 5 deg F (3 deg C) higher than the dew point for ambient temperature and relative humidity conditions in installation areas for 48 hours before installation, during installation, and for 48 hours after installation unless longer period is recommended in writing by manufacturer.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. MVE-Control System Capabilities: Capable of suppressing MVE without failure where installed on concrete that exhibits the following conditions:
 - 1. MVER: Maximum 25 lb of water/1000 sq. ft. (11.34 kg of water/92.9 sq. m) when tested according to ASTM F1869.
 - 2. Relative Humidity: Maximum 90 percent when tested according to ASTM F2170 using in situ probes.
- B. Water-Vapor Transmission: Through MVE-control system, maximum 0.11 perm (5.75 ng/Pa x s x sq. m) when tested according to ASTM E96/E96M.
- C. Tensile Bond Strength: For MVE-control system, greater than 200 psi (1.38 MPa) with failure in the concrete according to ASTM D7234.

2.2 MVE-CONTROL SYSTEM

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. USG Corporation.
 - 2. ARDEX Americas.
 - 3. KOSTER American Corporation.
 - 4. MAPEI Corporation.
 - 5. Maxxon Corporation.
- B. MVE-Control System: ASTM F3010-qualified, fluid-applied, two-component, epoxy-resin, membrane-forming system; formulated for application on concrete substrates to reduce MVER to level required for installation of floor coverings indicated and acceptable to manufacturers of floor covering products indicated, including adhesives.
 - 1. Substrate Primer: Provide MVE-control system manufacturer's concrete-substrate primer if required for system indicated by substrate conditions.
 - 2. Cementitious Underlayment Primer: If required for subsequent installation of cementitious underlayment products, provide MVE-control system manufacturer's primer to ensure adhesion of products to MVE-control system.

2.3 ACCESSORIES

- A. Patching and Leveling Material: Moisture-, mildew-, and alkali-resistant product recommended in writing by MVE-control system manufacturer and with minimum of **3000-psi (20.68-MPa)** Insert pressure compressive strength after 28 days when tested according to ASTM C109/C109M.
- B. Crack-Filling Material: Resin-based material recommended in writing by MVE-control system manufacturer for sealing concrete substrate crack repair.
- C. Cementitious Underlayment: If required to maintain manufacturer's warranty, provide MVE-control system manufacturer's gypsum cement-based underlayment.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
 - 1. Installation of system indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Preinstallation Testing:

1. Testing Agency: Engage a qualified testing agency to perform tests.
2. Alkalinity Testing: Perform pH testing according to ASTM F710. Install MVE-control system in areas with resilient flooring where pH readings are less than 5.0 and in areas where pH readings are greater than 9.0
 - a. Coordinate testing with required flooring system test
3. Moisture Testing: Perform tests so that each test area does not exceed **500 sq. ft. (18.6 sq. m)** and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
 - a. Anhydrous Calcium Chloride Test: ASTM F1869. Install MVE-control system in locations where concrete substrate MVER exceeds **3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m)** in 24 hours.

B. Concrete Substrates: Prepare and clean substrates according to MVE-control system manufacturer's written instructions to ensure adhesion of system to concrete.

1. Remove coatings and other substances that are incompatible with MVE-control system and that contain soap, wax, oil, or silicone, using mechanical methods recommended in writing by MVE-control system manufacturer. Do not use solvents.
2. Provide concrete surface profile complying with ICRI 310.2R CSP 3 by shot blasting using apparatus that abrades the concrete surface with shot, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
3. After shot blasting, repair damaged and deteriorated concrete according to MVE-control system manufacturer's written instructions.
4. Protect substrate voids and joints to prevent resins from flowing into or leaking through them.
5. Fill surface depressions and irregularities with patching and leveling material.
6. Fill surface cracks, grooves, control joints, and other nonmoving joints with crack-filling material.
7. Allow concrete to dry, undisturbed, for period recommended in writing by MVE-control system manufacturer after surface preparation, but not less than 24 hours.
8. Before installing MVE-control systems, broom sweep and vacuum prepared concrete.

C. Protect walls, floor openings, electrical openings, door frames, and other obstructions during installation.

3.3 INSTALLATION

- A. Install MVE-control system according to ASTM F3010 and manufacturer's written instructions to produce a uniform, monolithic surface free of surface deficiencies such as pin holes, fish eyes, and voids.
 - 1. Install primers as required to comply with manufacturer's written instructions.
- B. Do not apply MVE-control system across substrate expansion, isolation, and other moving joints.
- C. Apply system, including component coats if any, in thickness recommended in writing by MVE-control system manufacturer for MVER indicated by preinstallation testing.
- D. Cure MVE-control system components according to manufacturer's written instructions. Prevent contamination or other damage during installation and curing processes.
- E. After curing, examine MVE-control system for surface deficiencies. Repair surface deficiencies according to manufacturer's written instructions.
- F. Install cementitious underlayment over cured membrane if required to maintain manufacturer's warranty and in thickness required to maintain the warranty.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform installation inspections.
- B. Installation Inspections: Inspect substrate preparation and installation of system components to ensure compliance with manufacturer's written instructions and to ensure that a complete MVE-control system is installed without deficiencies.
 - 1. Verify that surface preparation meets requirements.
 - 2. Verify that component coats and complete MVE-control-system film thicknesses comply with manufacturer's written instructions.
 - 3. Verify that MVE-control-system components and installation areas that evidence deficiencies are repaired according to manufacturer's written instructions.
- C. MVE-control system will be considered defective if it does not pass inspections.

3.5 PROTECTION

- A. Protect MVE-control system from damage, wear, dirt, dust, and other contaminants before floor covering installation. Use protective methods and materials, including temporary coverings, recommended in writing by MVE-control system manufacturer.
- B. Do not allow subsequent preinstallation examination and testing for floor covering installation to damage, puncture, or otherwise compromise the MVE-control system membrane.

Bid Addendum #2
April 30, 2024

County of Santa Barbara
New Probation Headquarters

END OF SECTION 090561.13

SECTION 09 24 00 - CEMENT PLASTERING

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
1. Metal lath.
 2. Base-coat cement plaster.
 3. Cement plaster finish coats.
 4. Accessories.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Show locations and installation of control and expansion joints, including plans, elevations, sections, details of components, and attachments to other work.
- C. Samples: For each type of factory-prepared finish coat and for each color and texture specified.
- D. Samples for Initial Selection: For each type of factory-prepared finish coat and for each color and texture specified.
- E. Samples for Verification: For each type of factory-prepared finish coat and for each color and texture specified, **12 by 12 inches**, and prepared on rigid backing.
- F. Sustainable Design Submittals:

1.4 MOCKUPS

- A. Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
1. Build mockups for each substrate and finish texture indicated for cement plastering, including accessories.
 - a. Size: 100 sq. ft. in surface area.

2. For interior plasterwork, simulate finished lighting conditions for review of mockups.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store materials inside under cover, and keep them dry and protected against damage from weather, moisture, direct sunlight, surface contamination, corrosion, construction traffic, and other causes.

1.6 FIELD CONDITIONS

- A. Comply with ASTM C926 requirements.
- B. Exterior Plasterwork:
 1. Apply and cure plaster to prevent plaster drying out during curing period. Use procedures required by climatic conditions, including moist curing, providing coverings, and providing barriers to deflect sunlight and wind.
 2. Apply plaster when ambient temperature is greater than **40 deg F**.
 3. Protect plaster coats from freezing for not less than 48 hours after set of plaster coat has occurred.
- C. Factory-Prepared Finishes: Comply with manufacturer's written recommendations for environmental conditions for applying finishes.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain plaster materials from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Fire-Resistance Ratings: Where indicated, provide cement plaster assemblies identical to those of assemblies tested for fire resistance according to ASTM E119 by a qualified testing agency.

2.3 METAL LATH

- A. Self-Furring Welded Wire Lath:

1. Basis-of-Design Product: Subject to compliance with requirements, provide Structa wire corp. ; Mega Lath or comparable product by one of the following:
 - a. Davis Wire; a Heico Wire Group company
 - b. K-Lath; a Tree Island Steel Ltd. company
 - c. or approved equal
2. Welded-Wire Lath: ASTM C933; self-furring, 1.95 lb/sq. yd.
3. Furring Height: ¼"

B. Paper Backing: FS UU-B-790a, Type I, Grade D, Style 2 vapor-permeable paper.

2.4 BASE-COAT CEMENT PLASTER

A. General: Comply with ASTM C926 for applications indicated.

1. Fiber Content: Add fiber to base-coat mixes after ingredients have mixed at least two minutes. Comply with fiber manufacturer's written instructions for fiber quantities in mixes, but do not exceed **1 lb of fiber/cu. yd.** of cementitious materials.

B. Base-Coat Mixes for Use over Metal Lath: Scratch and brown coats for three-coat plasterwork as follows:

1. Portland Cement Mixes:

- a. Factory proportioned, Portland cement based exterior stucco for use in scratch and brown coat stucco applications. BOD Quickcrete Scratch and Browncoat Stucco, or approved equal

2.5 CEMENT PLASTER FINISH COATS

A. *Acrylic based*, Factory-mixed coating systems formulated with colorfast mineral pigments and fine aggregates; for use over premixed cement plaster base coats. Include manufacturer's recommended primers and sealing topcoats.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Master Wall Inc, Cemplaster Fiberstucco or comparable product by one of the following:
 - a. California Stucco Products Corp.
 - b. Omega Products International, Inc.
 - c. Stuc-O-Flex International, Inc.
 - d. or approved equal
2. Color: As selected by Architect from manufacturer's full range.
3. *Finish: Manufacturers' Varius- Vary Smooth Finish or approved equal*

2.6 ACCESSORIES

- A. General: Comply with ASTM C1063, and coordinate depth of trim and accessories with thicknesses and number of plaster coats required.
- B. Metal Accessories:
 - 1. Manufacturers: Subject to compliance with requirements, :
 - a. AMICO, a Gibraltar Industries company
 - b. CEMCO; California Expanded Metal Products Co.
 - c. ClarkDietrich
 - 2. Foundation Weep Screed: Fabricated from hot-dip galvanized-steel sheet, ASTM A653/A653M, **G60** zinc coating.
 - 3. Cornerite: Fabricated from metal lath with ASTM A653/A653M, **G60**, hot-dip galvanized-zinc coating.
 - 4. External- (Outside-) Corner Reinforcement: Fabricated from metal lath with ASTM A653/A653M, **G60**, hot-dip galvanized-zinc coating.
 - 5. Cornerbeads: Fabricated from zinc-coated (galvanized) steel.
 - 6. Casing Beads: Fabricated from zinc-coated (galvanized) steel; square-edged style; with expanded flanges.
 - 7. Control Joints: Fabricated from zinc-coated (galvanized) steel; one-piece-type, folded pair of unperforated screeds in M-shaped configuration; with perforated flanges and removable protective tape on plaster face of control joint.
 - 8. Expansion Joints: Fabricated from zinc-coated (galvanized) steel; folded pair of unperforated screeds in M-shaped configuration; with expanded flanges.
 - 9. Two-Piece Expansion Joints: Fabricated from zinc-coated (galvanized) steel; formed to produce slip-joint and square-edged reveal that is adjustable from **1/4 to 5/8 inch** wide; with perforated flanges.

2.7 PLASTER MATERIALS

- A. Portland Cement: ASTM C150/C150M, Type I or Type II.
- B. Premixed fiber reinforced modified Portland Cement based plaster complying with ASTM C150
- C. Colorants for Job-Mixed Finish Coats: Colorfast mineral pigments that produce finish plaster color to match Architect's sample.
- D. Sand Aggregate: ASTM C897.

2.8 MISCELLANEOUS MATERIALS

- A. Water for Mixing and Finishing Plaster: Potable and free of substances capable of affecting plaster set or of damaging plaster, lath, or accessories.
- B. *Leveling base coat: Master Wall Bagged Base Coat,*

1. *Dry polymer acrylic formulated base coat and adhesive.*
- C. Fiber for Base Coat: Alkaline-resistant glass or polypropylene fibers, **1/2 inch** long, free of contaminants, manufactured for use in cement plaster.
- D. *Standard Mesh: ASTM D76 Woven glass fiber mesh, with Alkaline-Resistant coating*
 1. *Weight: 4.6 oz/sq. yrd.*
 2. *ASTM D579*
- E. Bonding Compound: ASTM C932.
- F. Fasteners for Attaching Metal Lath to Substrates: ASTM C1063.
- G. Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, not less than **0.0475-inch** diameter unless otherwise indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Protect adjacent work from soiling, spattering, moisture deterioration, and other harmful effects caused by plastering.
- B. Prepare smooth, solid substrates for plaster according to ASTM C926.

3.3 INSTALLATION, GENERAL

- A. Fire-Resistance-Rated Assemblies: Install components according to requirements for design designations from listing organization and publication indicated on Drawings.
- B. Sound-Attenuation Blankets: Where required, install blankets before installing lath unless blankets are readily installed after lath has been installed on one side.

3.4 INSTALLATION OF METAL LATH

- A. Metal Lath: Install according to ASTM C1063.
 1. Partition Framing and Vertical Furring: Install self-furring welded-wire lath.

2. Flat-Ceiling and Horizontal Framing: Install self-furring welded-wire lath.
3. On Solid Surfaces, Not Otherwise Furred: Install self-furring, welded-wire lath.

3.5 INSTALLATION OF ACCESSORIES

- A. Install according to ASTM C1063 and at locations indicated on Drawings.
- B. Reinforcement for External (Outside) Corners:
 1. Install lath-type, external-corner reinforcement at exterior locations.
 2. Install cornerbead at interior locations.
- C. Control Joints: Locate as approved by Architect for visual effect and as follows:
 1. As required to delineate plasterwork into areas (panels) of the following maximum sizes:
 - a. Vertical Surfaces: *As indicated in drawings*
 - b. Horizontal and Other Nonvertical Surfaces: *As indicated in drawings*
 2. As required to delineate plasterwork into areas (panels) with length-to-width ratios of not greater than 2-1/2:1.
 3. Where control joints occur in surface of construction directly behind plaster.
 4. Where plasterwork areas change dimensions, to delineate rectangular-shaped areas (panels) and to relieve the stress that occurs at the corner formed by the dimension change.

3.6 APPLICATION OF BASE-COAT CEMENT PLASTER

- A. General: Comply with ASTM C926.
 1. Do not deviate more than plus or minus **1/4 inch in 10 feet** from a true plane in finished plaster surfaces when measured by a **10-foot** straightedge placed on surface.
 2. Finish plaster flush with metal frames and other built-in metal items or accessories that act as a plaster ground unless otherwise indicated. Where casing bead does not terminate plaster at metal frame, cut base coat free from metal frame before plaster sets and groove finish coat at junctures with metal.
 3. Provide plaster surfaces that are ready to receive field-applied finishes indicated.
- B. Bonding Compound: Apply on unit masonry and concrete substrates for direct application of plaster.
- C. Walls; Base-Coat Mixes for Use over Metal Lath: For scratch and brown coats, for three-coat plasterwork with **3/4-inch** total thickness, as follows:
 1. Premixed Base mix mixed with manufacturer's recommended amount of water and sand.
- D. Ceilings; Base-Coat Mixes for Use over Metal Lath: For scratch and brown coats, for

three-coat plasterwork and having 3/4-inch total thickness for metal lath on concrete, as follows:

1. Premixed Base mix.

3.7 BROWN COAT:

- A. As soon as the scratch coat is firm enough to receive the brown coat without damage, apply the brown coat with sufficient pressure to ensure intimate contact with the first coat to an approximate thickness as needed to bring the cement plaster to a uniform thickness that matches the grounds of the accessories. Use a rod or straight edge to bring the surface to a true, even plane. Fill depressions in plane.
- B. After the Plaster has become slightly firm float the surface lightly with a Darby or wood float to densify the surface and to provide a smooth, even surface.
- C. Moist cure using fogging, plastic films or other method acceptable to the design professional for 48- 72 hours. Mixes with Ad Liquid do not need moist curing.
- D. Allow to fully cure until clean, dry and hard before finishing: (Follow manufacturer guidelines. Regional climate conditions may impact minimum curing times.)

3.8 LEVELING BASE COAT

- A. *Ensure that the surface of the is cured, clean, dry, and free of efflorescence, oil or other contaminants that would impair adhesion.*
- B. *Mix Leveling Base Coat materials in accordance with Manufacturer's recommendations.*
- C. *Apply the base coat to the entire surface of the approximately 3/32" thick. Immediately embed Standard reinforcing mesh into wet base coat with a trowel, working from the center toward the edges, until the mesh is fully covered and a smooth surface is achieved. The color of the mesh shall not be visible but a slight mesh pattern may be visible. Lap mesh 2 1/2" minimum on all sides. Reinforcing Mesh shall be continuous through all interior and exterior corners extending beyond the corner a minimum of 12" from both directions creating a minimum of two layers of standard reinforcing mesh on all interior and exterior corners.*
- D. *Allow to dry a minimum of 12 hours at room temperature before finishing.*

3.9 APPLICATION OF CEMENT PLASTER FINISH COATS

- A. Plaster Finish Coats: Apply to provide Smooth Coat finish to match Architect's sample.
 1. Level Surface to a uniform thickness of 3/32" to 1/8"
 2. Float Finish with plastic float in a uniform motion to achieve smooth texture, apply a second layer if required

- B. Concealed Exterior Plasterwork: Where plaster application is used as a base for adhered finishes, omit finish coat.

3.10 REPAIR

- A. Repair or replace work to eliminate cracks, dents, blisters, buckles, crazing and check cracking, dry outs, efflorescence, sweat outs, and similar defects and where bond to substrate has failed.

3.11 CLEANING

- A. Remove temporary protection and enclosure of other work after plastering is complete.
- B. Promptly remove plaster from door frames, windows, and other surfaces not indicated to be plastered.
- C. Repair floors, walls, and other surfaces stained, marred, or otherwise damaged during plastering.

END OF SECTION 09 24 00

SECTION 112423 – FALL PROTECTION TIEBACK ANCHORS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes tieback anchors for maintenance personnel fall protection.
- B. Related Requirements
 - 1. Section 01 31 19 Project Meetings for pre-installation meeting.

1.2 REFERENCES

- A. American Welding Society (AWS).
 - 1. AWS D1.2/D1.2M, Structural Welding Code - Aluminum.
 - 2. AWS D1.1/D1.1M, Structural Welding Code—Steel.
- B. ASTM International (ASTM).
- C. ASTM A123/A123M, Standard Specification for Zinc (Hot-Dip Galvanized) - Coatings on Iron and Steel Products.
- D. ASTM A167, Specification for Stainless and Heat Resisting Chromium Nickel Steel Plate, Sheet and Strip.
- E. ASTM A276, Standard Specification for Stainless Steel Bars and Shapes.
- F. Occupational Safety and Health Administration (OSHA).
 - 1. OSHA 1910, Subpart D, Walking and Work Surfaces.
 - 2. OSHA 1910, Subpart F, Appendix C, Personal Fall Arrest Systems.
- G. National Roofing Contractor's Association (NRCA)
 - 1. The NRCA Roofing and Waterproofing Manual, Fifth Edition

1.3 REGULATORY REQUIREMENTS

- A. Comply with current California Building Code.
- B. Comply with OSHA regulations as follows:
 - 1. 1910, Subpart D, Walking and Working Surfaces.
 - 2. Appendix C to 1910 Subpart F, Personal Fall Arrest Systems.
- C. Comply with California Code of Regulations, Title 8 – Industrial Relations, Appendix C to Article 6 (Personal Fall Arrest System)

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include manufacturer's technical data sheet.
- B. Shop Drawings: Indicate information on shop drawings as follows:
 - 1. Submit shop drawings showing complete layout of system, including components and accessories.
 - 2. Indicate design and fabrication details, hardware, and installation details.
 - 3. Include installation and rigging instructions and:
 - a. Required restrictive working usage and general safety notes.
 - b. Non-restrictive working usage and general safety notes.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualifications:
 - 1. Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - 2. Manufacturer Qualifications: Manufacturer capable of providing field service representation during construction and approving application method.
- B. Quality Assurance:
 - 1. Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
 - 2. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
 - 3. Manufacturer's installation instructions.
- C. Warranty:
 - 1. Submit manufacturer's standard warranty that complies with requirements herein.
- D. Operating Procedures Outline Sheet (OPOS)
 - A. Submit an Operating Procedures Outline System (OPOS) including necessary elements in both pictorial and written form, to instruct employees in safe use of roof supported building maintenance equipment or window

cleaning procedures not covered by California Labor Code orders. Ensure that OPOS contains as a minimum, elements as follows:

- a. Isometric or plan view pictorial drawing of building's roof, including building's name, address, and date OPOS was prepared. Ensure drawing is legible and kept with building's written assurance.
- b. Identification of drop zones, recommended drop sequences, scaffold configurations, and specific building maintenance procedures including equipment to be used.
- c. Identification of anchorage points for personal fall arrest systems and building maintenance equipment.
- d. Identification of personal fall protection requirements and procedures for securing equipment.
- e. Identification of dangerous areas on roof by highlighting of "Danger Zone" on pictorial drawing.
- f. Description of means and methods to be used to transfer equipment from drop location or between building levels.
- g. Identification of equipment limitations, load ratings, and special use conditions.
- h. Provisions for pre-operational, operation and maintenance inspections.
- i. Identification of access and egress to work locations and storage area(s) for permanent or transportable building maintenance equipment.
- j. Indication of location and method of stabilization provided for suspended equipment.
- k. Emergency and rescue procedures, and means of communications to be used during such procedures.
- l. Method to be used to control employee exposure to falls while in "Danger Zone."

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For installed products, including:
 1. Manufacturer's instructions covering maintenance requirements and parts catalog giving complete list of repair and replacement parts with cuts and identifying numbers.
 2. System Equipment Manual & Inspection Log Book, with "Initial Inspection - Certification for Use" and "Inspection Sign-Off" forms completed.

3. As-built shop drawings showing equipment locations and details. Post drawing adjacent to each roof access point.

1.7 COORDINATION

- A. Conduct pre-installation meeting to verify project requirements, manufacturer's installation instructions, and manufacturer's warranty requirements, and to coordinate work with related trades. Comply with Section 01 31 19 - Project Meetings.
- B. Sequence with other Work and Comply with manufacturer's written recommendations for sequencing construction operations.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Delivery:
 1. Deliver materials in manufacturer's original packaging with identification labels intact and in sizes to suit project.
- B. Storage and Protection:
 1. Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

1.9 PROJECT AMBIENT CONDITIONS

- A. Installation Location: Assemble and erect components only when temperatures are above 40 degrees F.

1.10 WARRANTY

1. Manufacturer's standard 1-year warranty.

PART 2 - PRODUCTS

2.1 ANCHORS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide, products by one of the following:
 1. Pro-Bel (basis of design, PBE75-0000)
 2. Guardian Fall Protection
 3. Tractel
 4. Or approved equal

2.2 PERFORMANCE REQUIREMENTS

- A. Anchor components shall comply with ASME A120.1.

- B. Fall arrest system shall comply with AISC S342L and load ratings as noted on drawings.
- C. Safety Anchor Eye Plate: Mild steel, Type 300W with 44 Ksi minimum yield strength, hot-dip galvanized per ASTM A123/A123M.
 - 1. Plate: 0.875 inches diameter material with 2 inches eye opening.
- D. Hollow Steel Section (HSS) Piers: Mild steel, Type 300W with 50 Ksi minimum yield strength, hot dipped galvanized per ASTM A123/A123M
 - 2. Wall thickness to suit application .
- E. Plate and other sections: Mild steel, Type 300W with 44 Ksi minimum yield strength, hot dipped galvanized per ASTM A123/A123M
 - 3. Wall thickness to suit application.
- F. Miscellaneous Bolts, Nuts and Washers: Mild steel, Type 300W with 44 Ksi minimum yield strength, hot-dip galvanized to ASTM A123/A123M.

2.3 SOURCE QUALITY CONTROL

- A. Obtain components from a single manufacturer.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- 1. Comply with manufacturer's written installation instructions.

3.2 EXAMINATION

- A. Site Verification:
 - 1. Verify that substrate conditions which have been previously installed under other sections or contracts, are acceptable for product installation in accordance with manufacturer's instructions prior to installation of tieback equipment.
 - 2. Inform Architect of unacceptable conditions immediately upon discovery.
 - 3. Proceed with installation only after unacceptable conditions have been remedied.

3.3 PREPARATION

- A. Verify that structure or substrate is adequate to support complete system and required loads.
- B. Verify that structural steel to receive safety anchors has adequate bearing surface as indicated on shop drawings.

3.4 INSTALLATION

- A. Complete "Initial Inspection - Certification for Use" form included in Equipment Manual and Inspection Log Book provided by manufacturer.

3.5 ADJUSTMENT

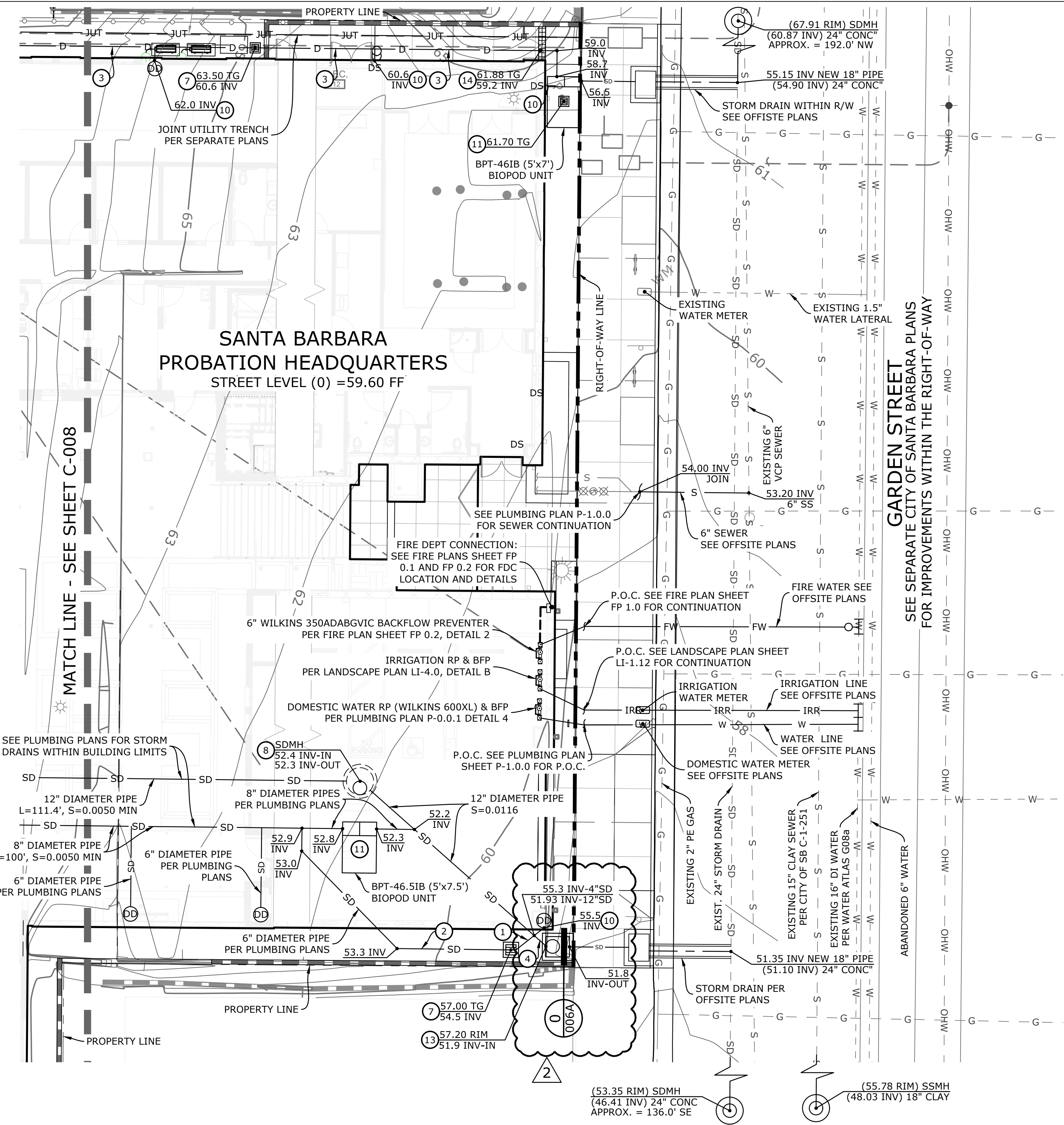
- A. Install anchors plumb and level in accordance with manufacturer's written instructions.
- B. Accurately fit and align, securely fasten and install free from distortion or defects.

3.6 PROTECTION

- A. Protect installed product from damage during construction in accordance with Section 018300 Execution.
- B. Repair damage to adjacent materials caused by equipment installation.

END OF SECTION 112423

DRAWING: n:\projects\0475\engineering\acad\improvements\0475_utility.dwg



STORM DRAIN CONSTRUCTION NOTES

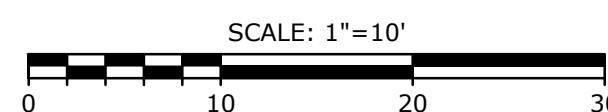
- 1 CONSTRUCT 4" DIA. SDR 35 PVC STORM DRAIN PIPE PER TRENCH DETAIL "F" ON SHEET C-009.
- 2 CONSTRUCT 6" DIA. SDR 35 PVC STORM DRAIN PIPE PER TRENCH DETAIL "F" ON SHEET C-009. SLOPE PER PLAN.
- 3 CONSTRUCT 8" DIA. SDR 35 PVC STORM DRAIN PIPE PER TRENCH DETAIL "F" ON SHEET C-009. SLOPE PER PLAN.
- 4 CONSTRUCT 12" DIA. SDR 35 PVC STORM DRAIN PIPE PER TRENCH DETAIL "F" ON SHEET C-009. SLOPE PER PLAN.
- 5 INSTALL 6" ATRIUM GRATE PER ARCHITECT'S PLANS.
- 6 CONSTRUCT BROOKS PRECAST 12" SQUARE GRATED DROP INLET CATCH BASIN WITH TRAFFIC RATED GRATE PER DETAIL "J" ON SHEET C-009 OR APPROVED EQUAL.
- 7 CONSTRUCT BROOKS PRECAST 18" SQUARE GRATED DROP INLET CATCH BASIN WITH TRAFFIC RATED GRATE PER DETAIL "J" ON SHEET C-009 OR APPROVED EQUAL.
- 8 CONSTRUCT CONCRETE ECCENTRIC 48" STANDARD PRE-CAST MANHOLE PER CITY OF SANTA BARBARA DETAIL S-MH-1 OR APPROVED EQUAL.
- 9 INSTALL STORM DRAIN ELBOW, WYE, CROSS OR TEE AS SHOWN.
- 10 CONNECT ROOF DOWN DRAIN TO STORM DRAIN PER DETAIL "K" ON SHEET C-010.
- 11 CONSTRUCT BIPOD BIOFILTER UNIT PER CONTECH ENGINEERED SOLUTIONS (SIZE AS NOTED ON PLAN). SEE DETAIL "Z" ON SHEET C-010.
- 12 CONSTRUCT 8" WIDE, PRE-SLOPED TRENCH DRAIN WITH TRAFFIC RATED GRATE PER ZURN INDUSTRIES OR APPROVED EQUAL.
- 13 CONSTRUCT 4.5'Lx4.0'Wx5.4'D POUR-IN-PLACE CONCRETE DRAINAGE STRUCTURE WITH 6" THICK WALLS. SIMILAR TO SPPWC STANDARD PLAN 300-4. SEE "OUTLET STRUCTURE" DETAIL "O" ON SHEET C-006A.
- 14 CONSTRUCT 8" WIDE, PRE-SLOPED TRENCH DRAIN WITH ADA RATED GRATE PER ZURN INDUSTRIES OR APPROVED EQUAL.

LEGEND

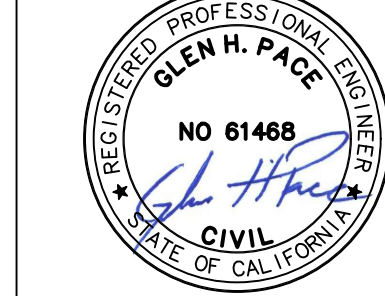
	CATCH BASIN		STORM DRAIN
	TRENCH DRAIN		MINOR DRAIN
	BIPOD BIOFILTRATION UNIT		WATER
	DOWN DRAIN (CONNECT TO SD)		FIRE WATER
	DOWN SPOUT		SEWER
			GAS
			JOINT UTILITY TRENCH
			FIRE DEPT CONNECTION/ DOUBLE CHECK VALVE

NOTE:

IMPROVEMENTS WITHIN RIGHT-OF-WAY PER SEPARATE CITY OF SANTA BARBARA PLANS AND PERMIT (C-1-4966)



Roesling Nakamura Terada Architects
 363 Fifth Avenue, Ste. 202
 San Diego, California
 P619.233.1023
 F619.233.0016
 www.RNTarchitects.com



GLEN H. PACE 61468
 PROJECT ENGINEER RCE

COUNTY OF
 SANTA
 BARBARA

SANTA
 BARBARA
 PROBATION
 1019 GARDEN STREET
 SANTA BARBARA, CA 93101

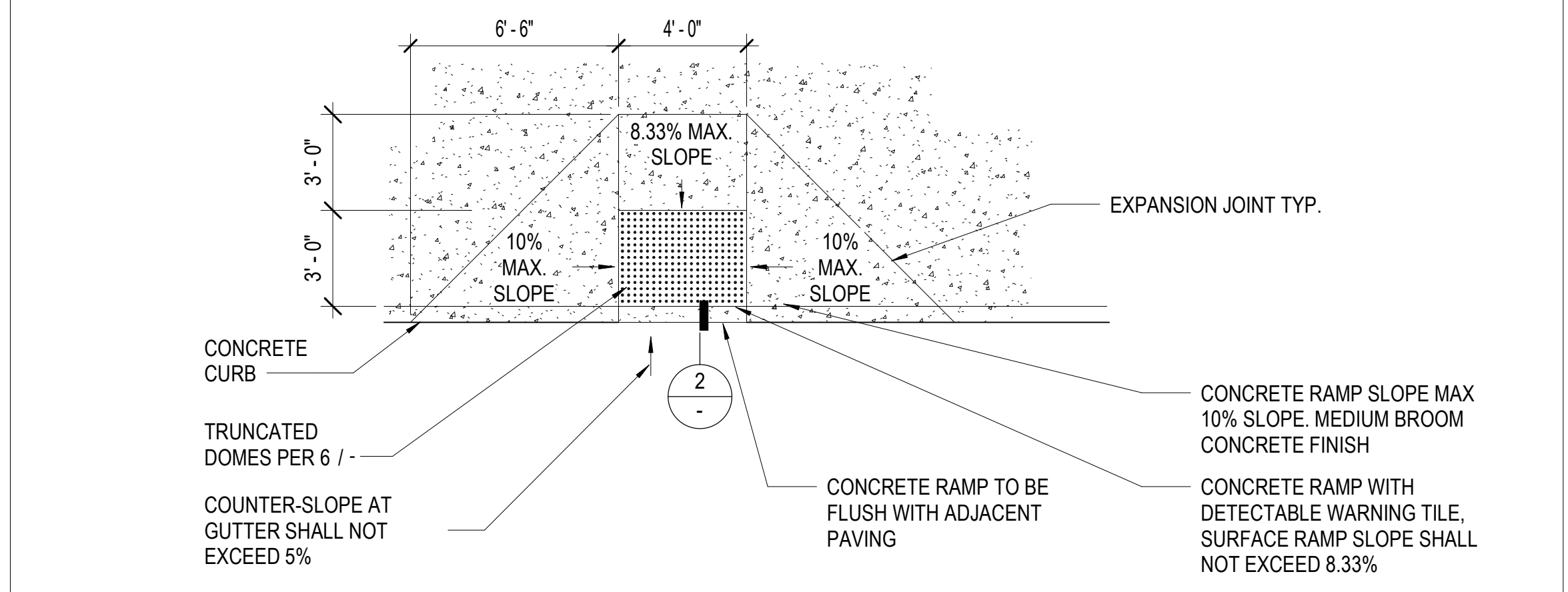
100% CONSTRUCTION
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	ADDED OUTLET STRUCTURE DETAIL "O" TO NOTE 13 & SECTION CALLOUT	

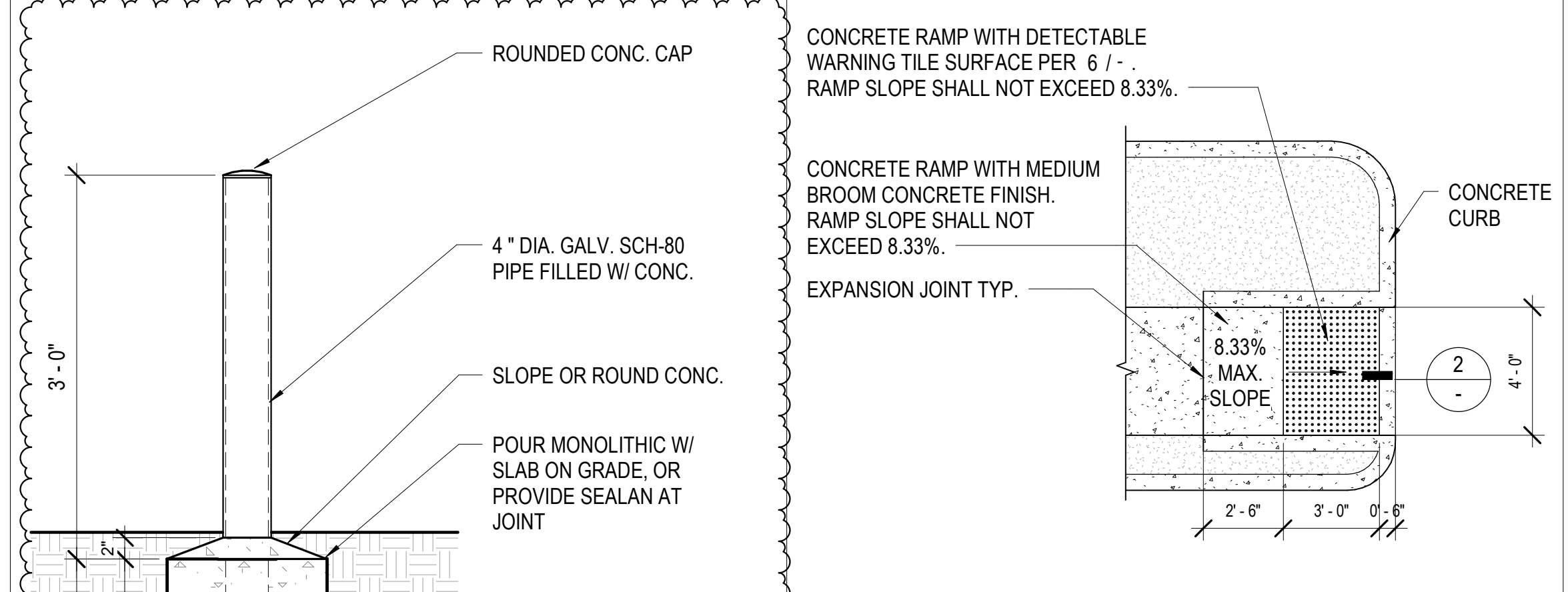
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**UTILITY PLAN
 EAST**
 Date 03/28/2024
 Drawn by: FB
 Checked by: GHP
 Sheet Number
C - 007
 Sheet 7 of 10 Sheets



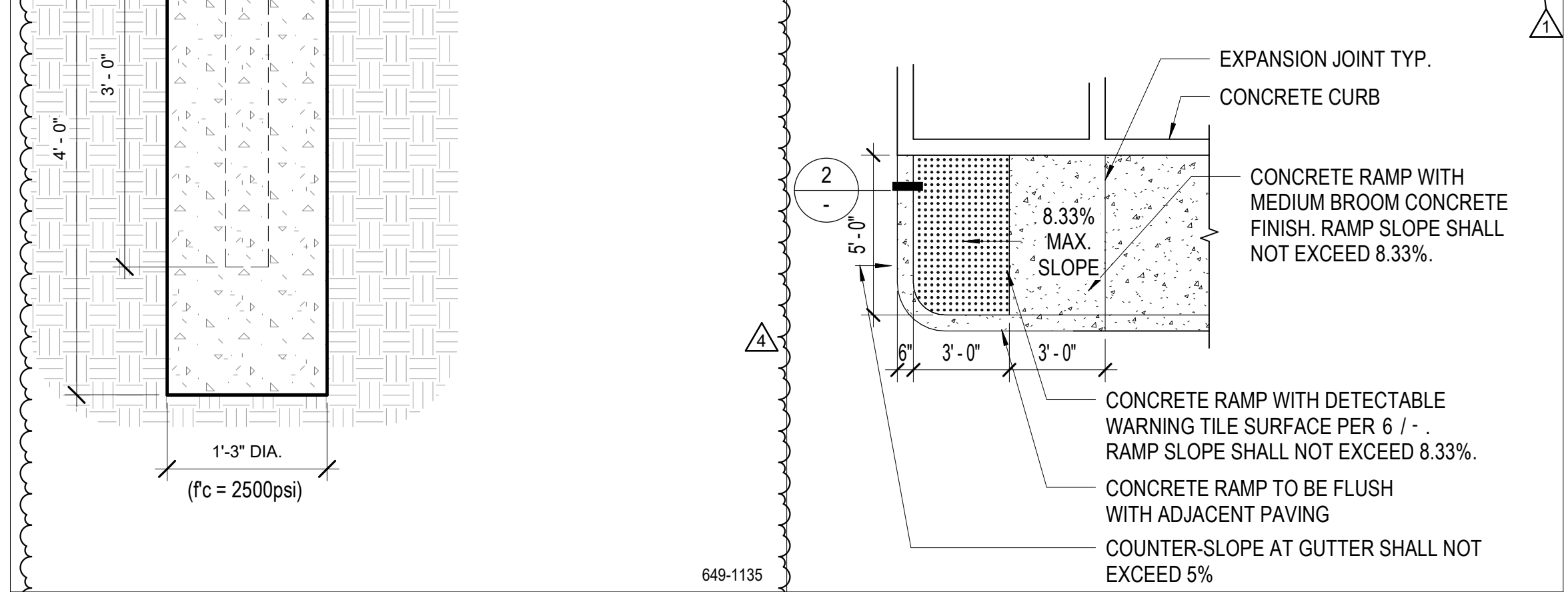
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2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024



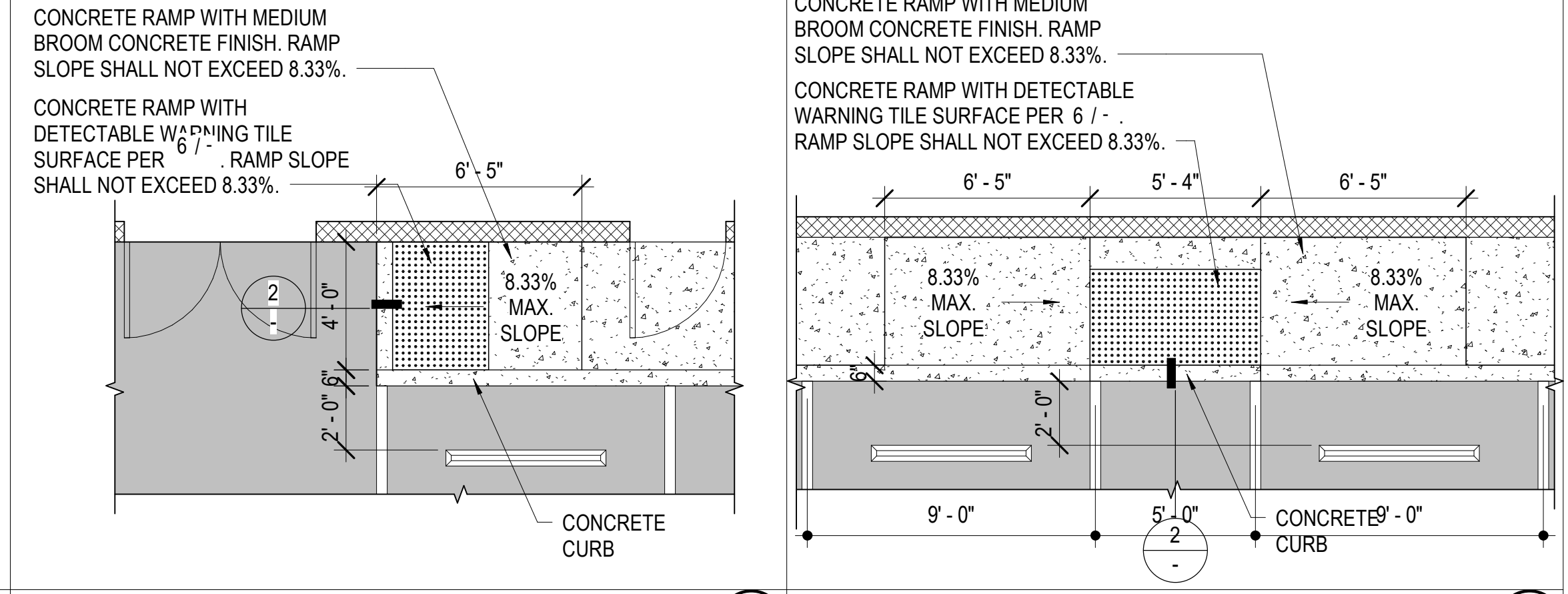
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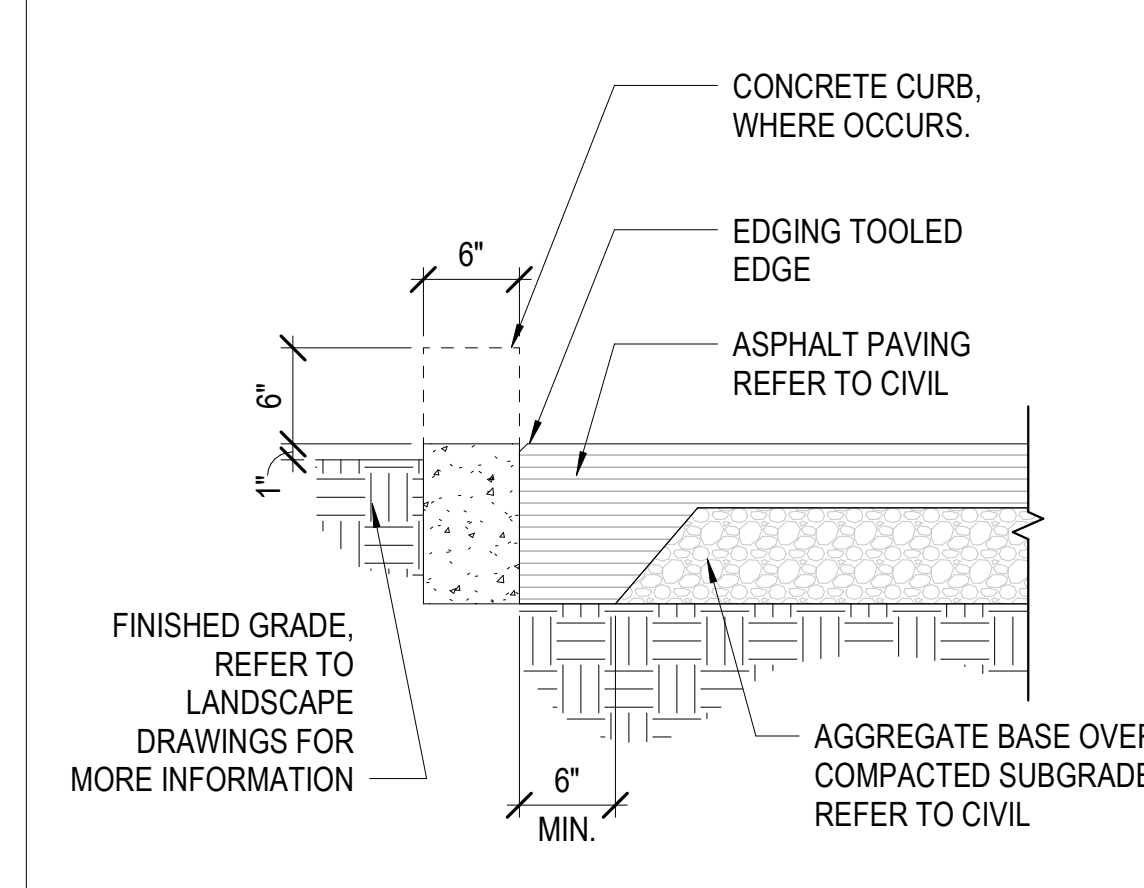
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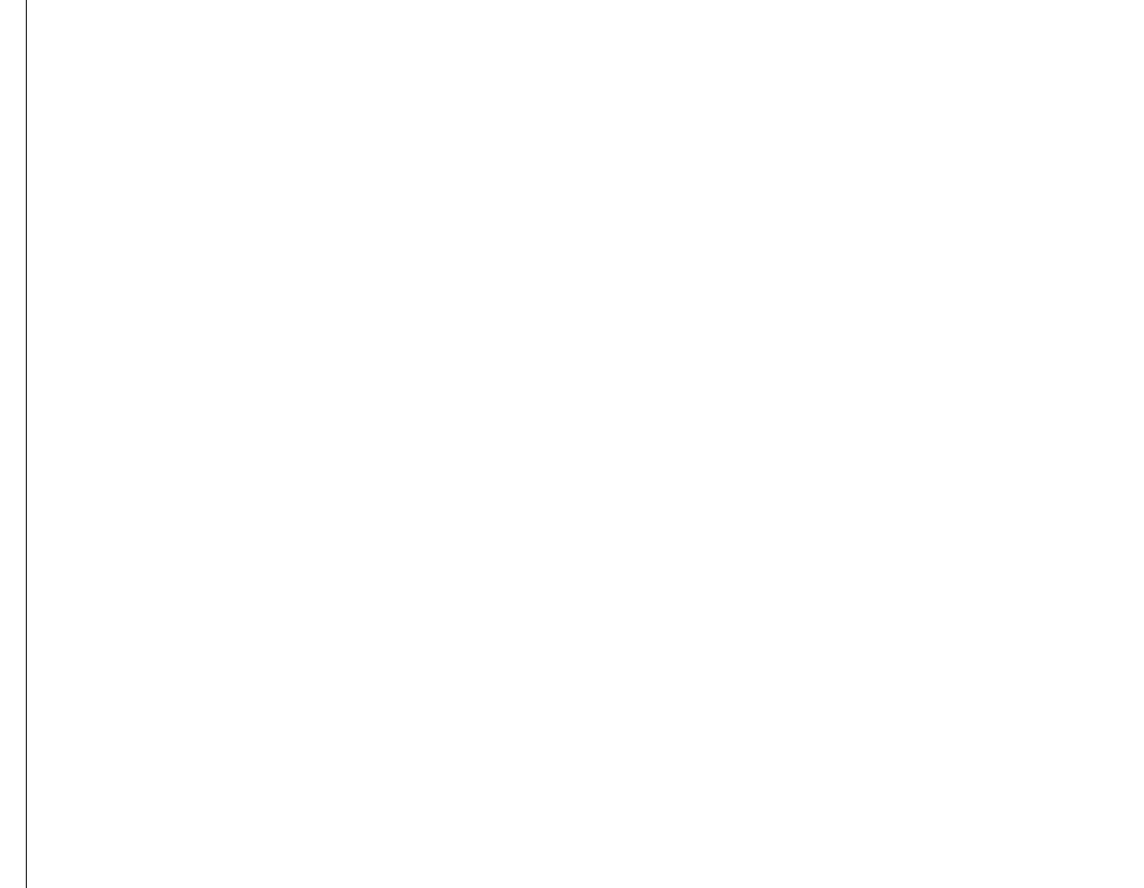
14 1135 BOLLARD @ GRADE 1" = 1'-0"



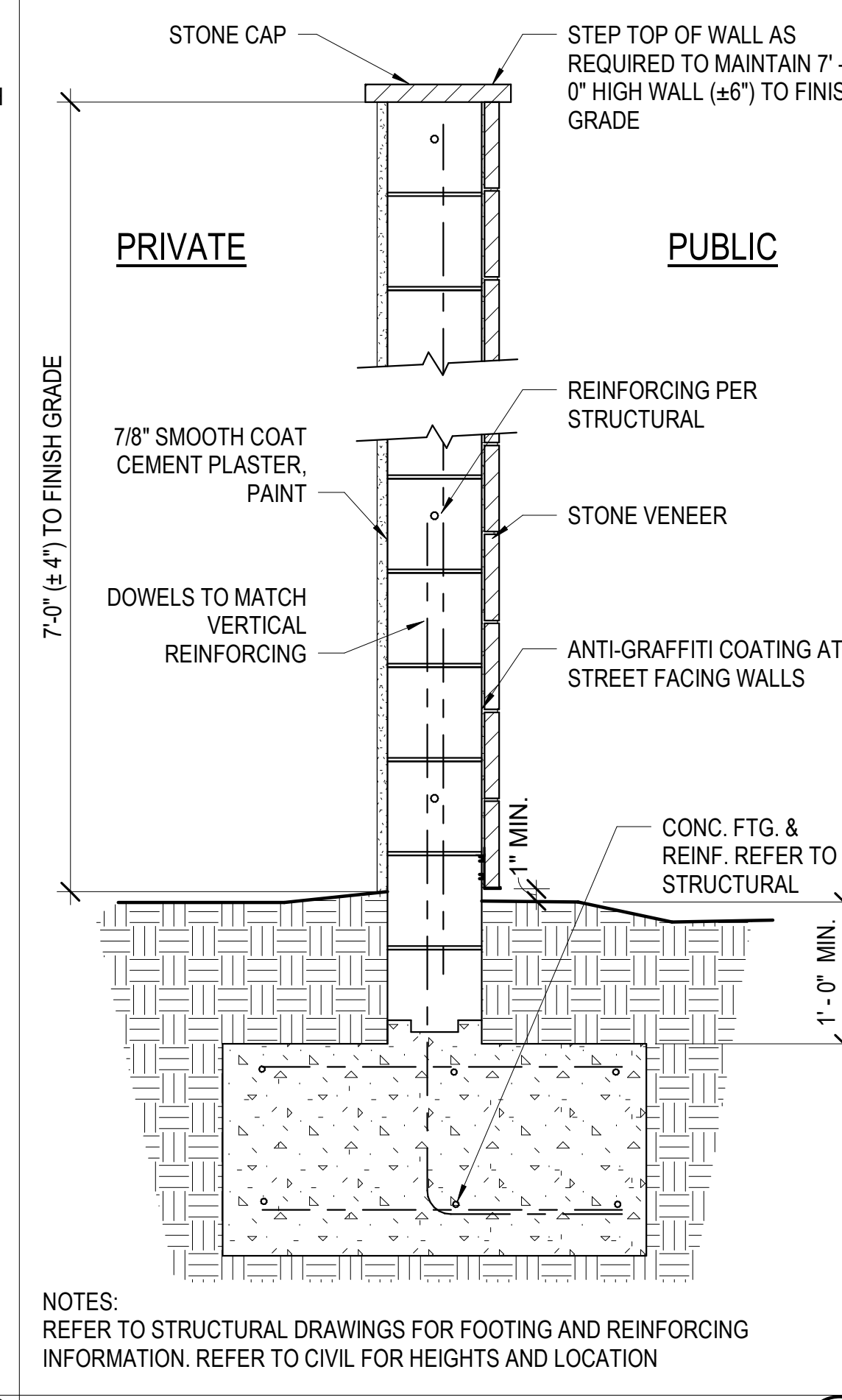
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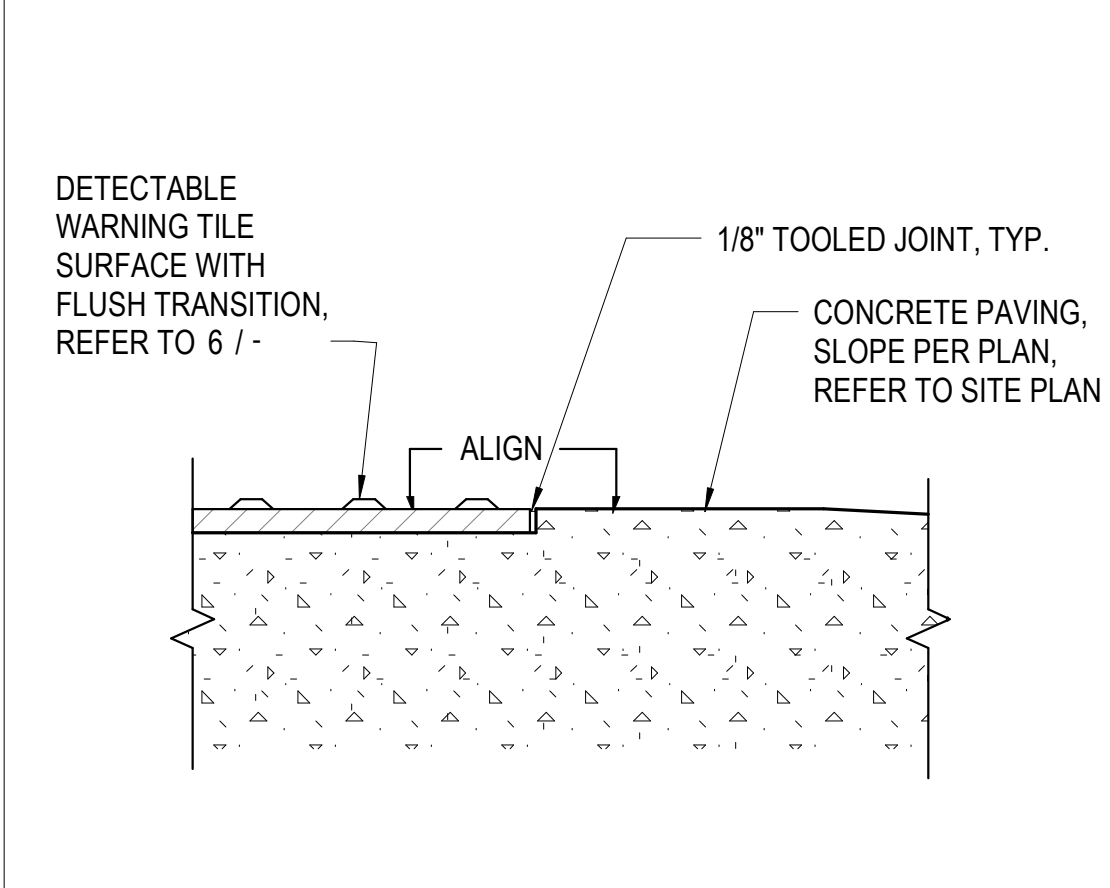
3 ASPHALT PAVING EDGE 1" = 1'-0"



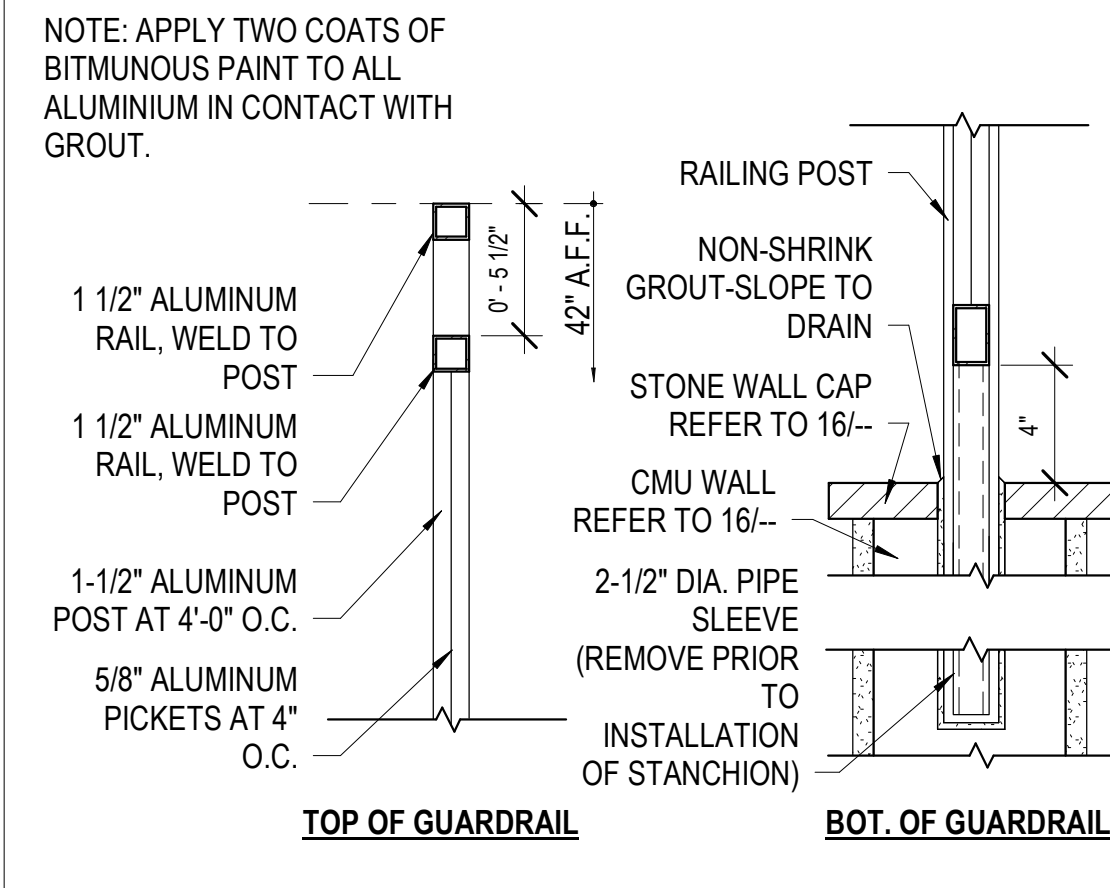
7 GUARDRAIL AT CMU WALL 1 1/2" = 1'-0"



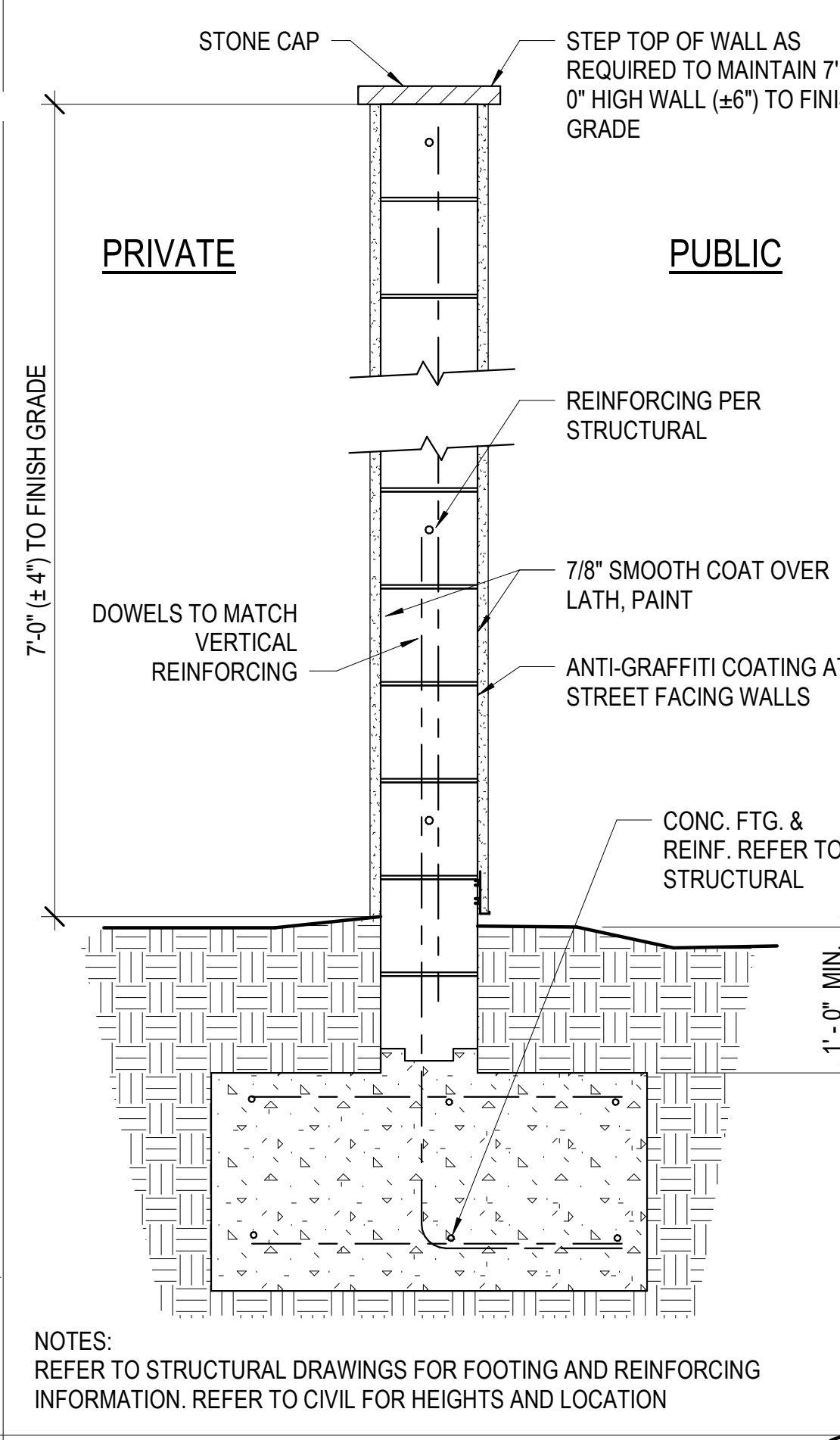
17 CMU SITE WALL W/ STONE 1" = 1'-0"



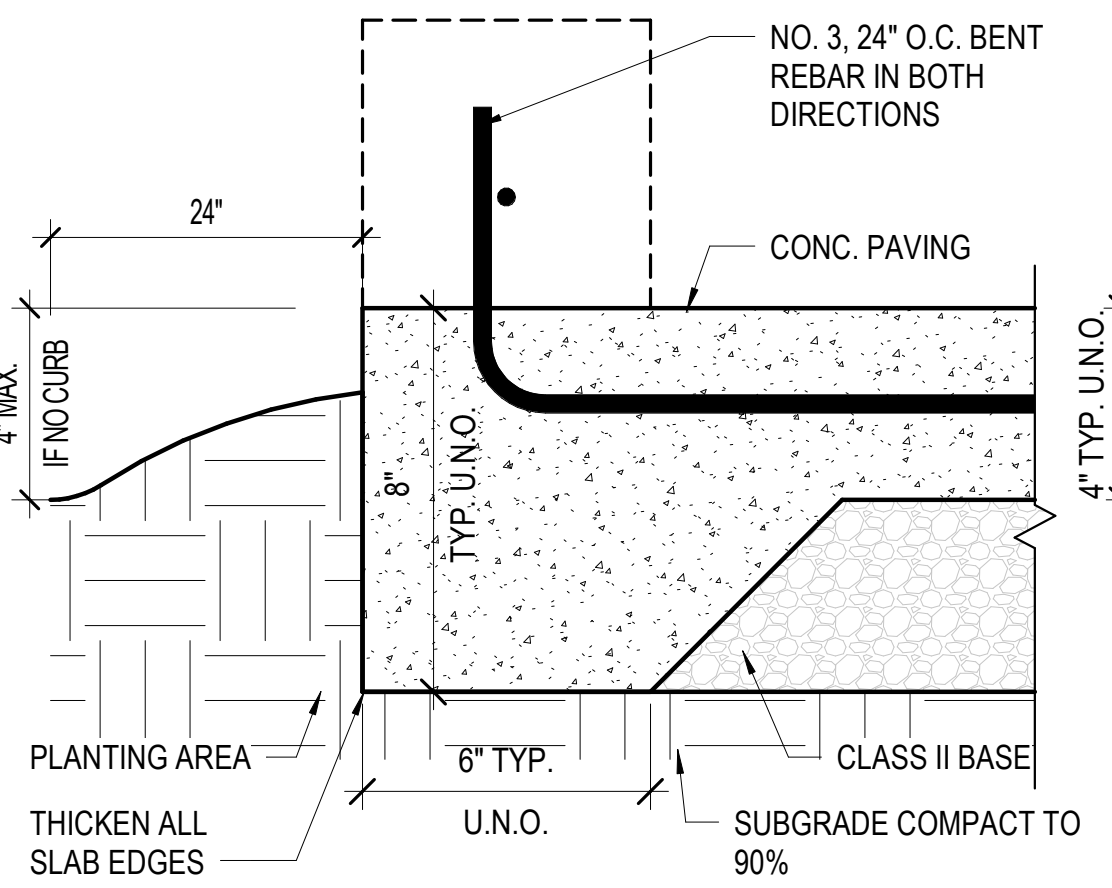
2 DETECTABLE WARNING TILE SURFACE TRANSITION 3" = 1'-0"



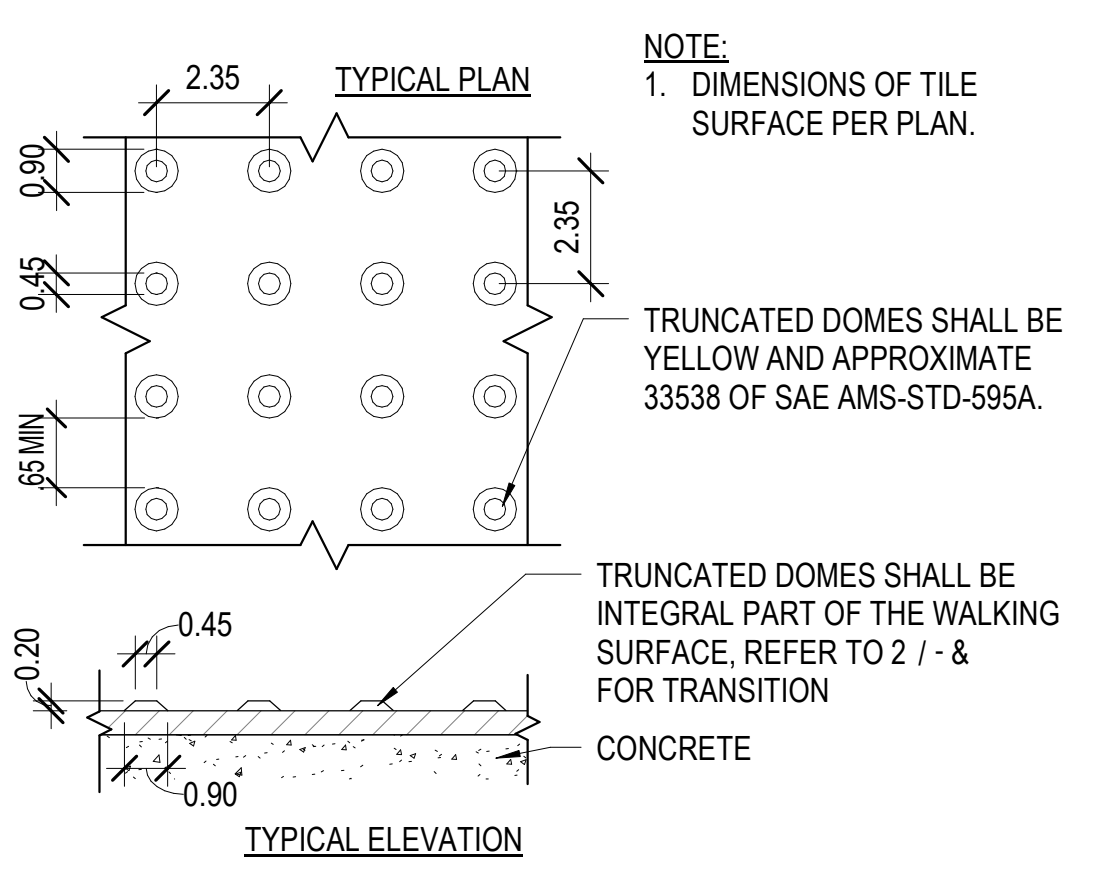
6 DETECTABLE WARNING TILE SURFACE 3" = 1'-0"



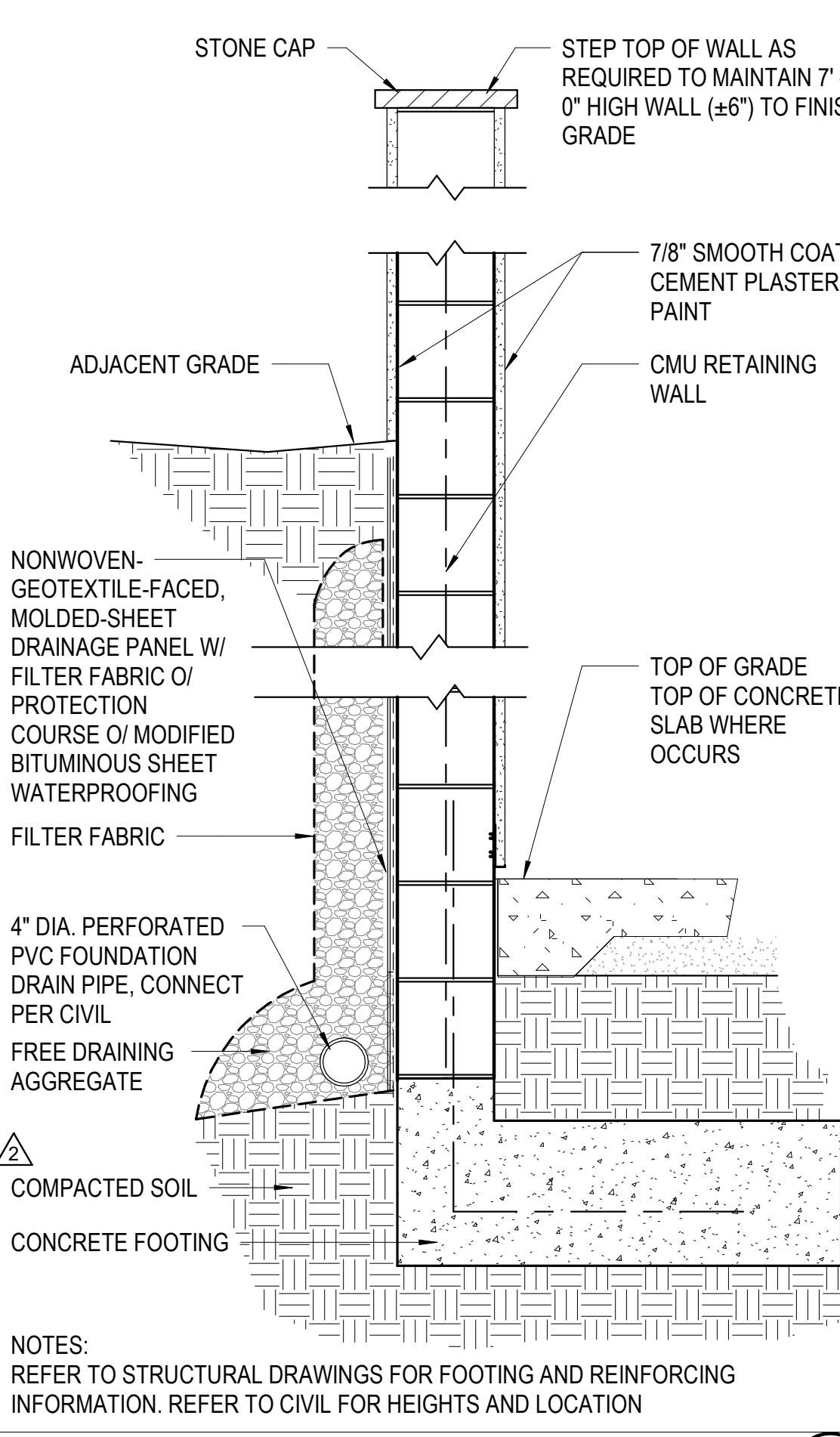
16 SITE RETAINING WALL 1" = 1'-0"



1 CONCRETE SLAB THICKENED EDGE 3" = 1'-0"



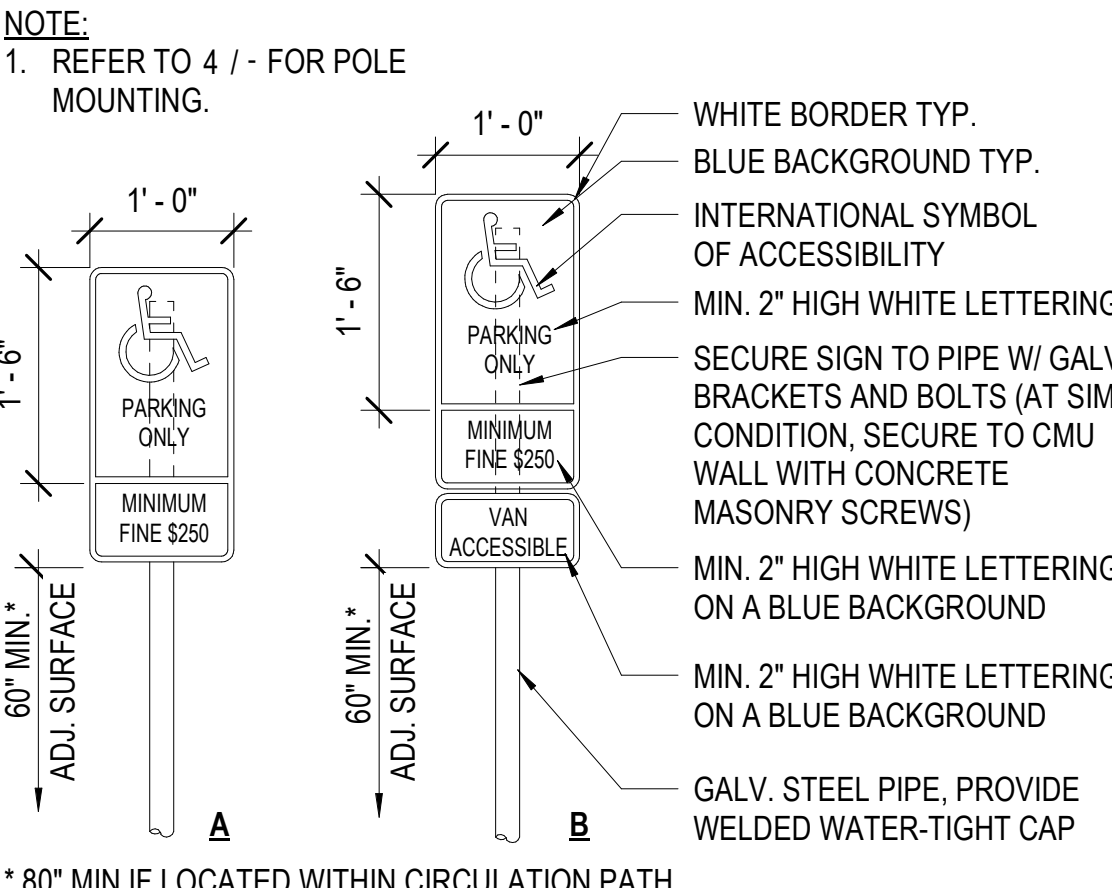
8 GUARDRAIL AT CMU WALL 1 1/2" = 1'-0"



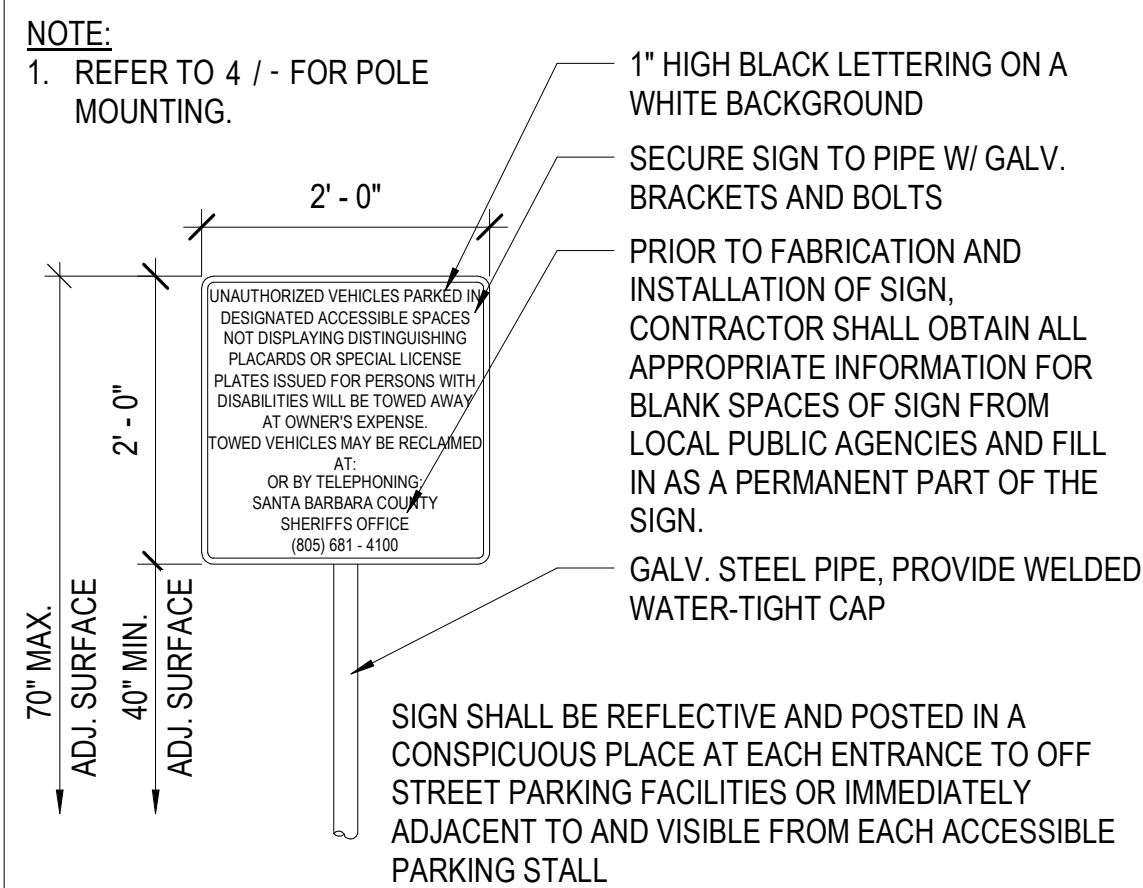
18 CURB RAMP 4 1" = 1'-0"

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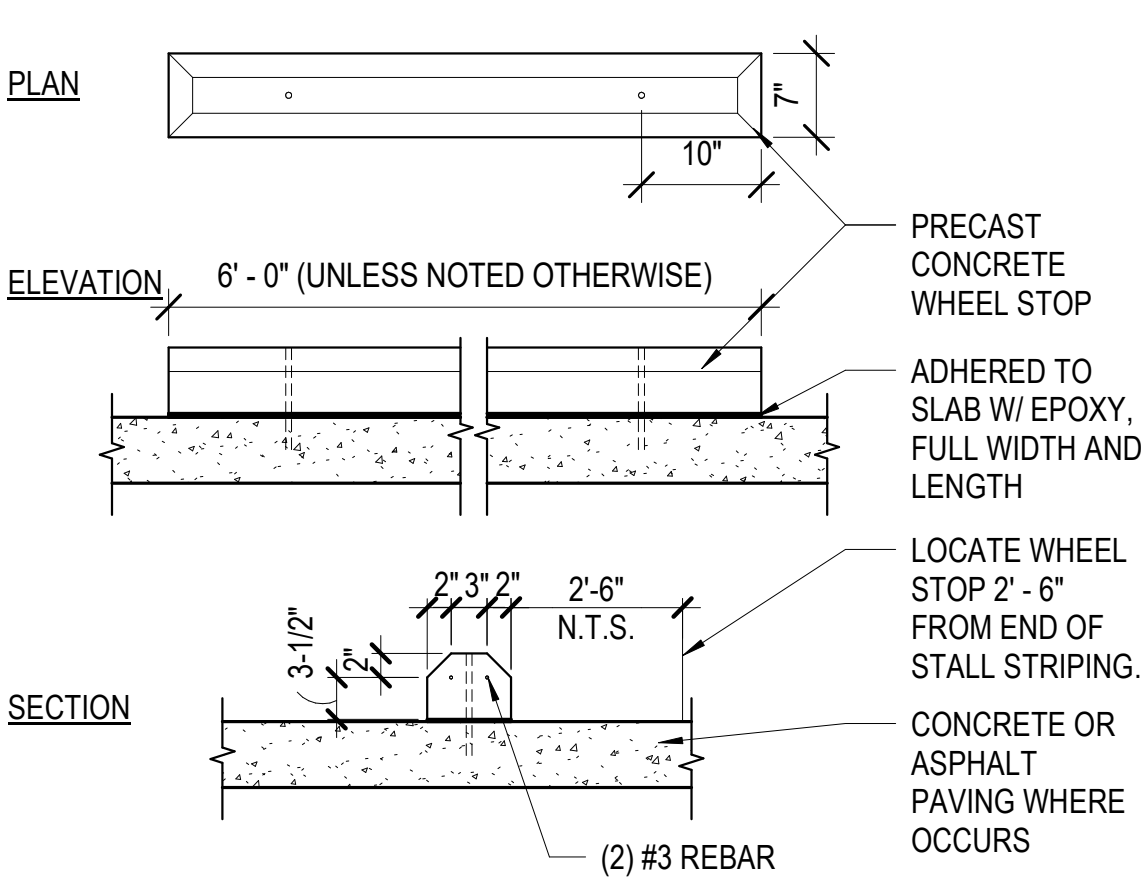
Autodesk Docs://895-SB County Probation/895 - Santa Barbara Probation et. All ideas, arrangements and plans indicated or represented by this drawing are owned by, and the property of, Roelling Nikamura Terada Architects, Inc. and were created, evolved, and developed for use on and in connection with the project. None of such ideas, arrangements, or plans shall be used by or disclosed to any person, firm, or corporation for any purpose whatsoever without the written permission of Roelling Nikamura Terada Architects, Inc. Filing of these drawings or applications with any public agency is not a publication of same. No reproduction is therefore permissible without the written consent of RNT.



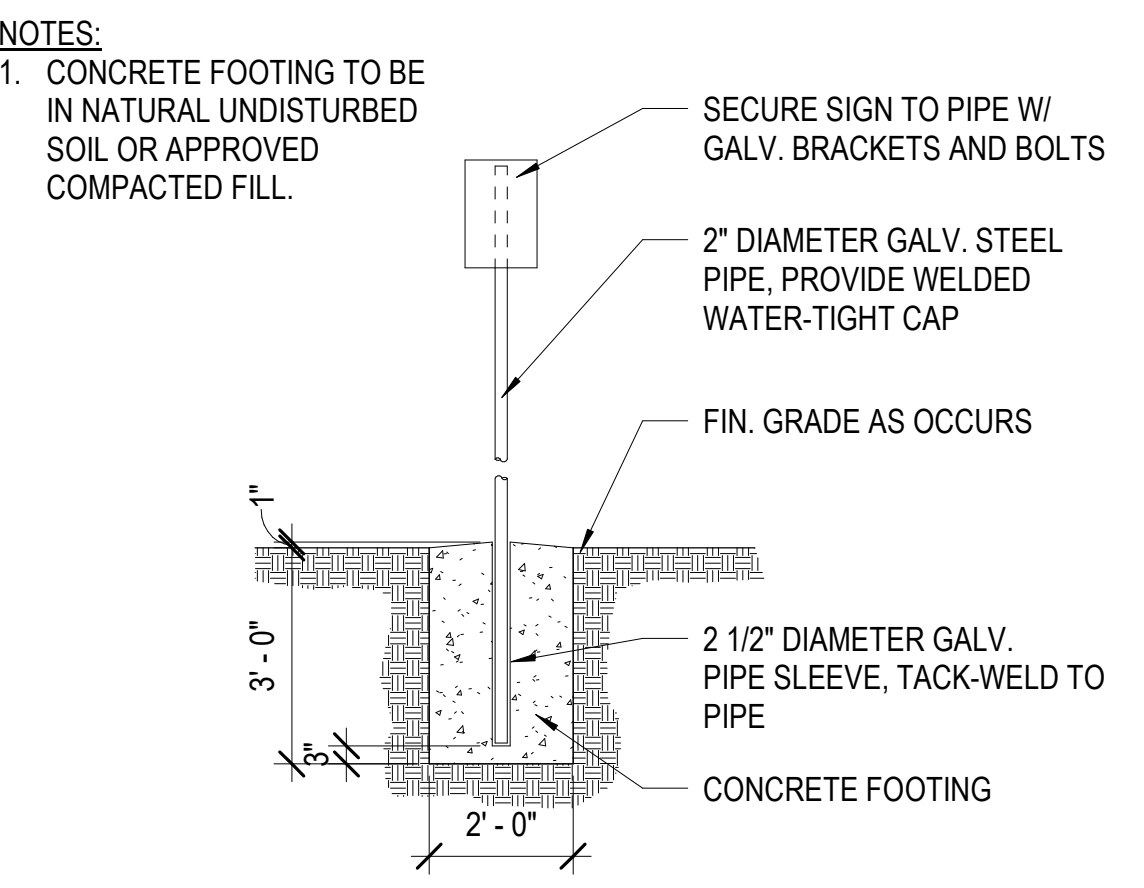
SIGNAGE - TYPE U 3/4" = 1'-0" **1**



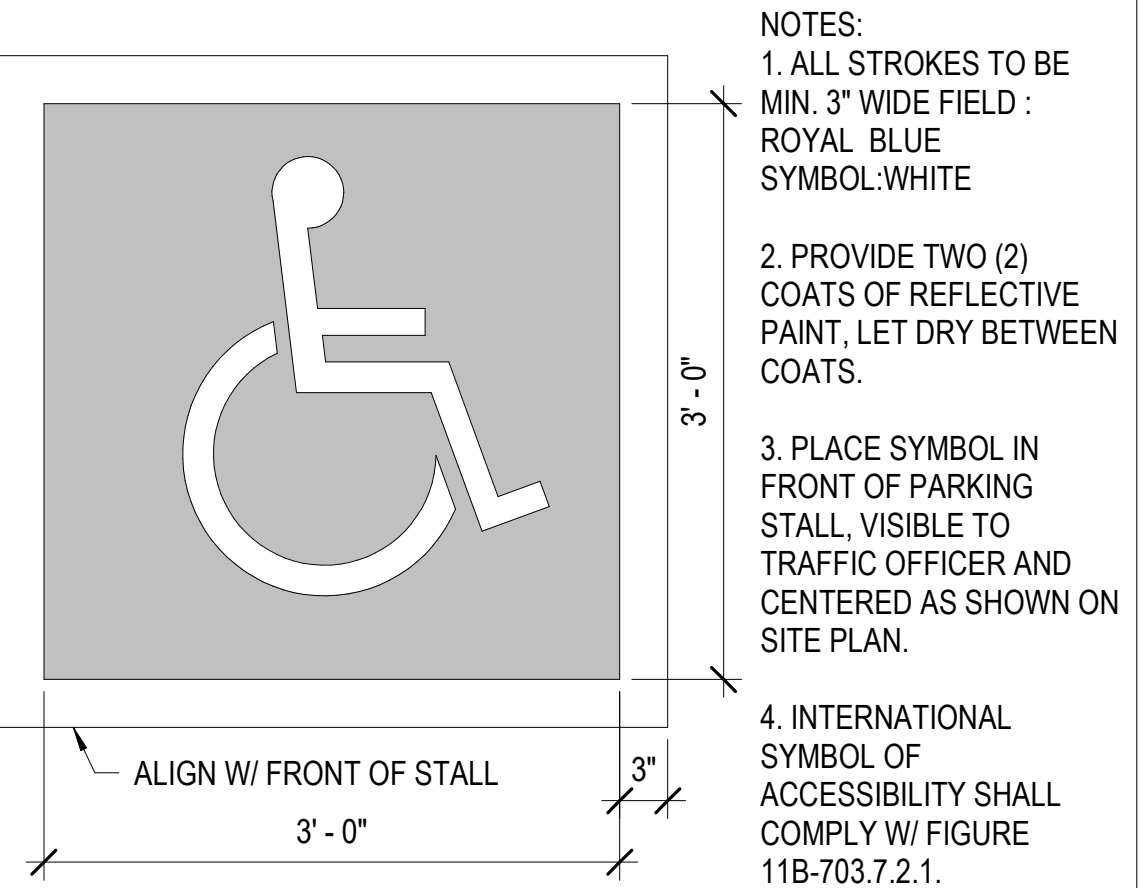
SIGNAGE - TYPE V 3/4" = 1'-0" **2**



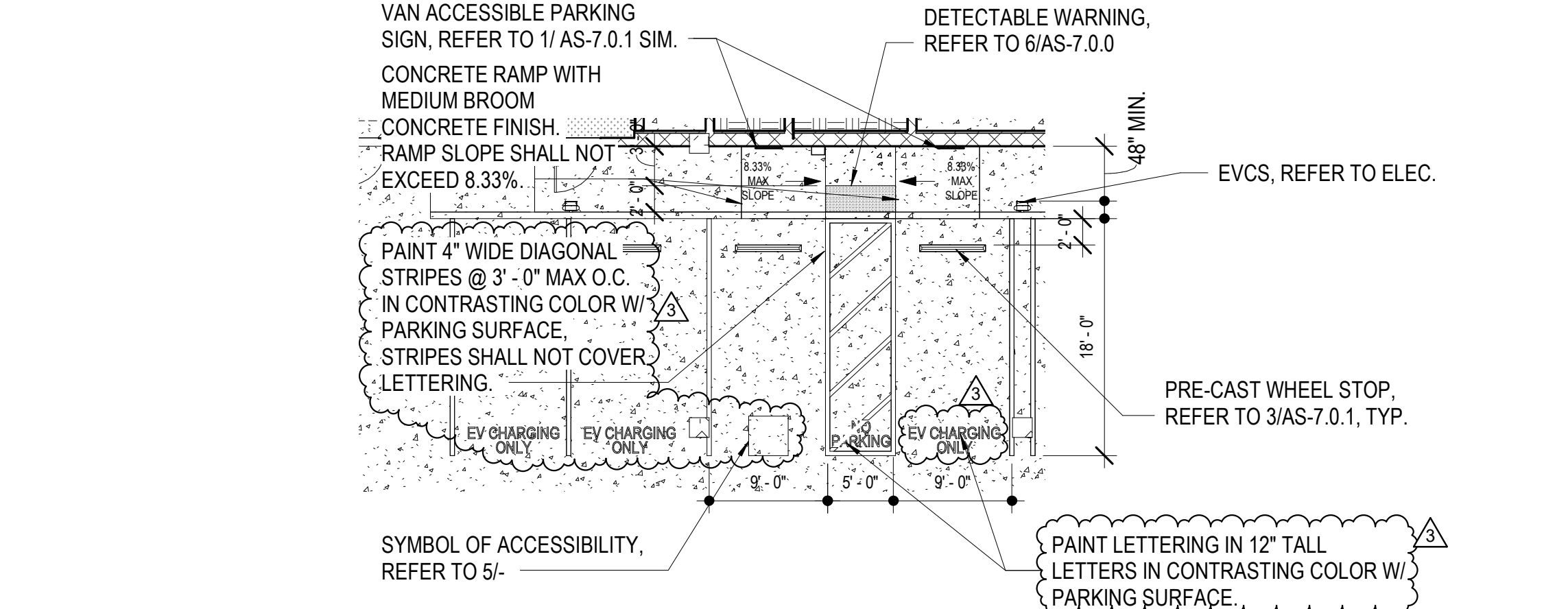
PRE-CAST WHEEL STOP 3/4" = 1'-0" **3**



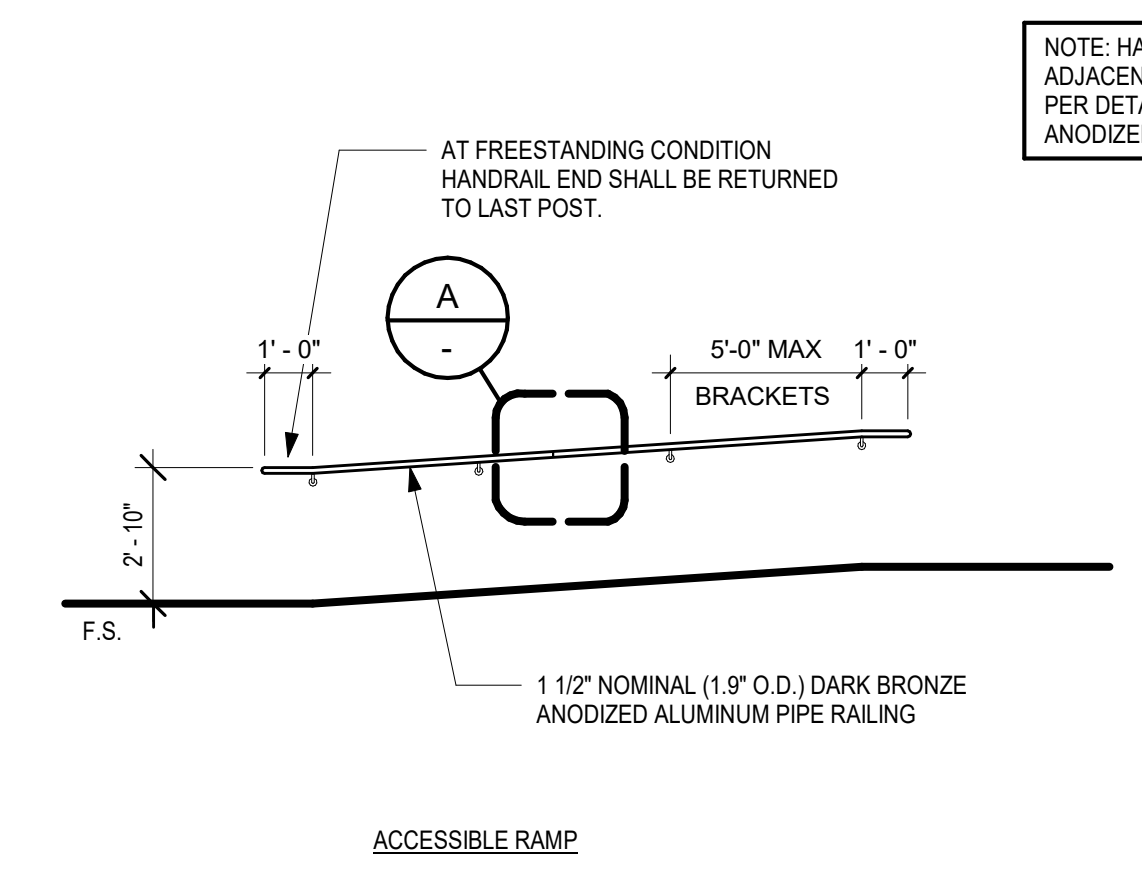
POLE MOUNTING 3/8" = 1'-0" **4**



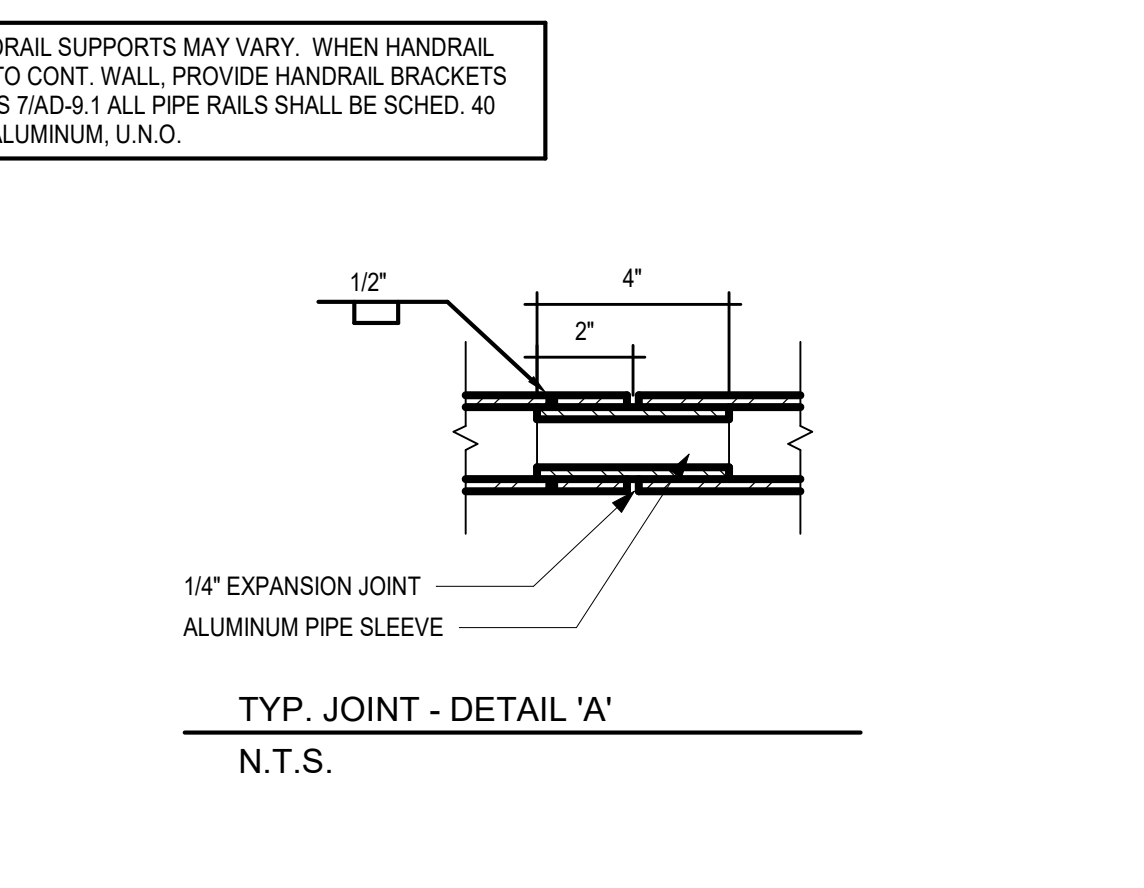
SYMBOL OF ACCESSIBILITY 1" = 1'-0" **5**



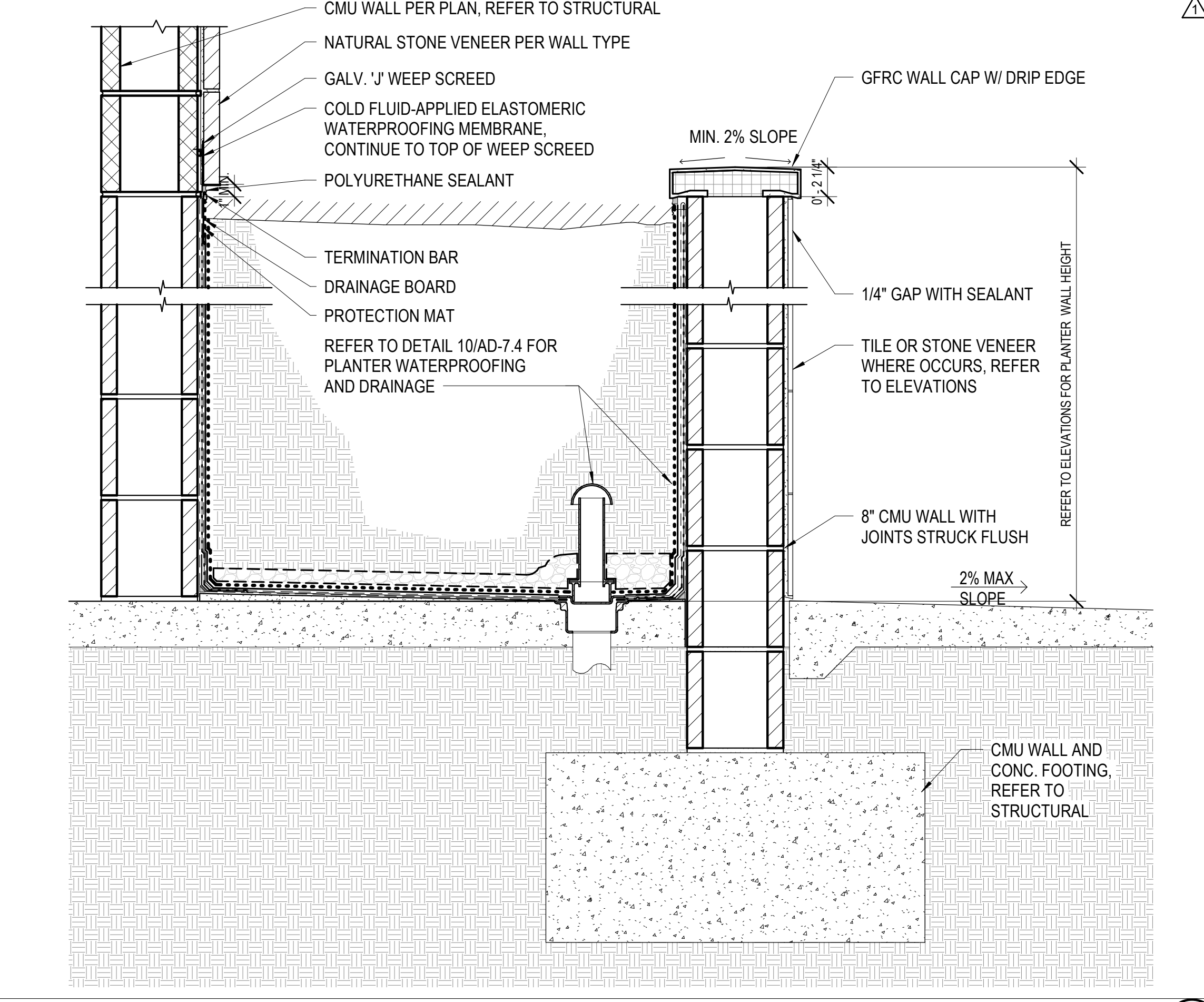
GROUND FLOOR ACCESSIBLE PARKING 1" = 10'-0" **7**



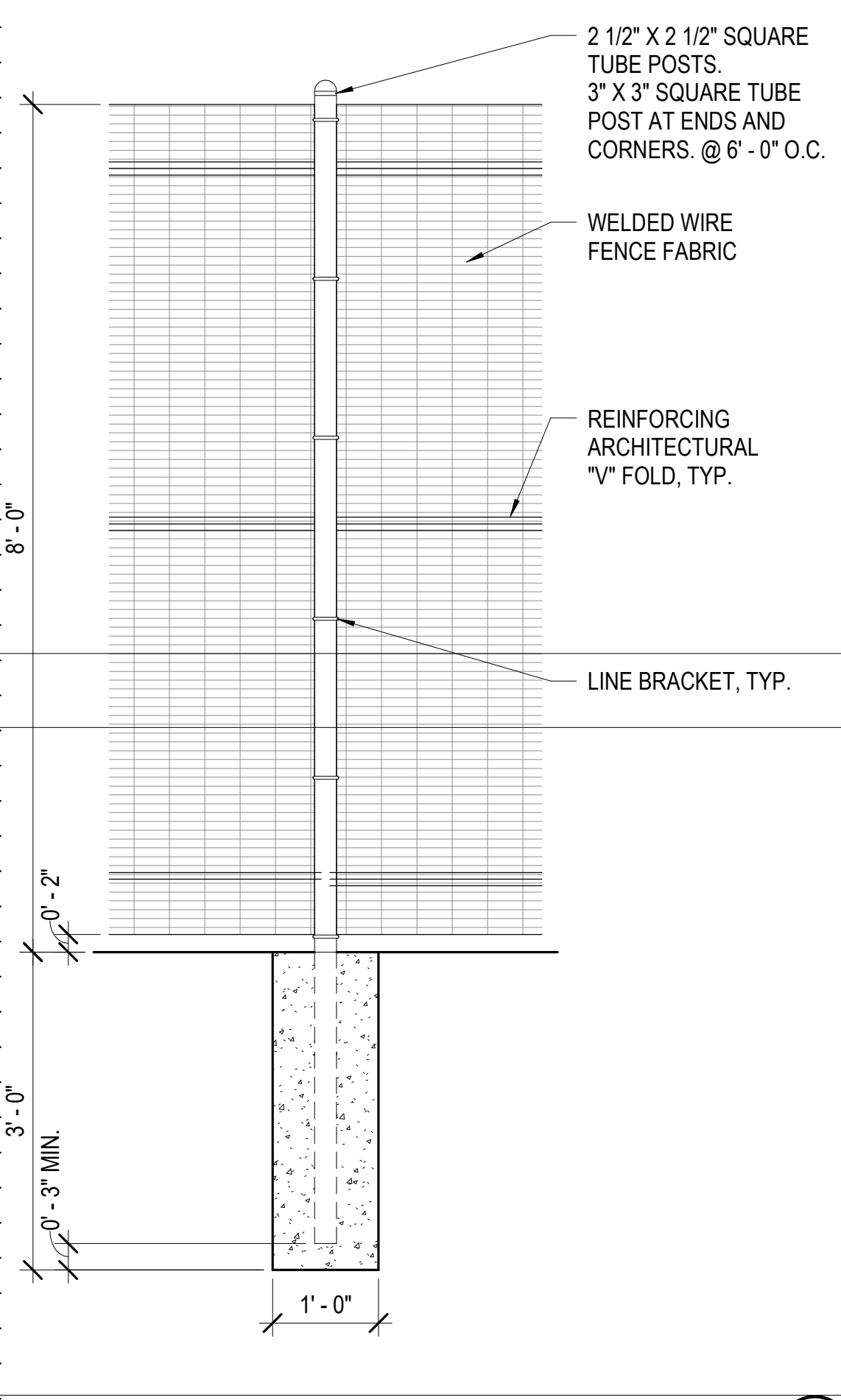
ACCESSIBLE RAMP HANDRAIL 1/4" = 1'-0" **9**



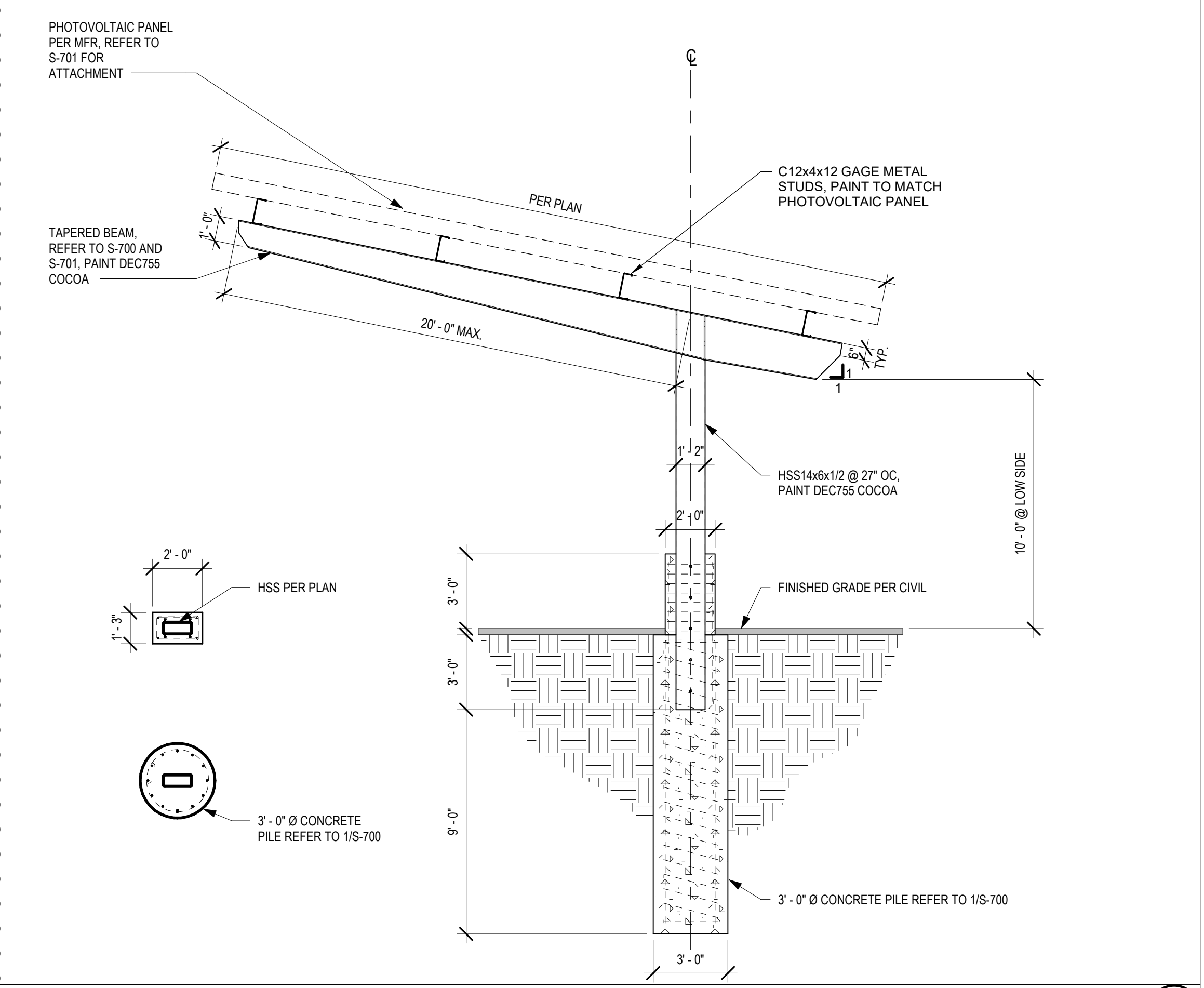
ACCESSIBLE SIDEWALK OBSTRUCTIONS 1/2" = 1'-0" **10**



PLANTER AT GRADE 1 1/2" = 1'-0" **17**



ANTI-CLIMB GROUNDABLE FENCE 3/4" = 1'-0" **18**



PHOTOVOLTAIC CARPORT SECTION 1/4" = 1'-0" **20**

BID DOCUMENTS

No.	Description	Date
1	PCC#1	12/19/2023
2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024

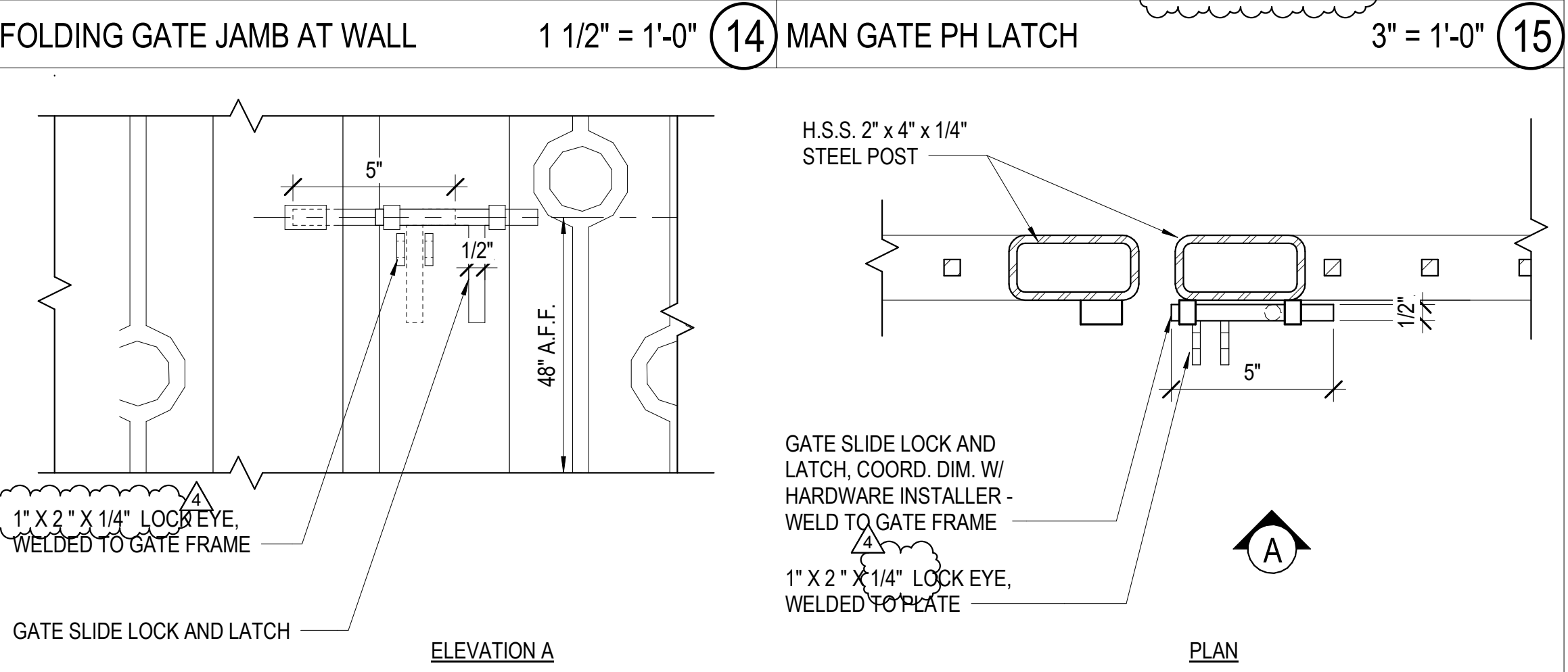
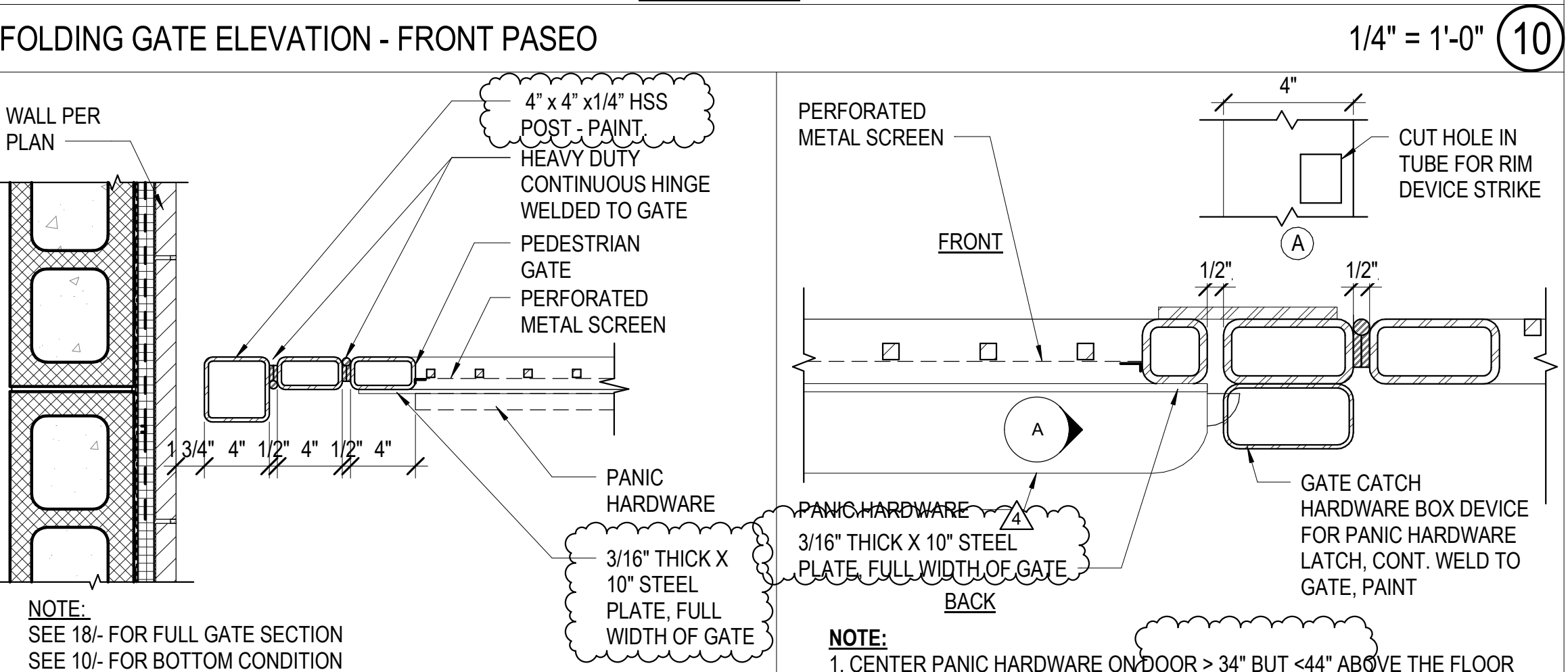
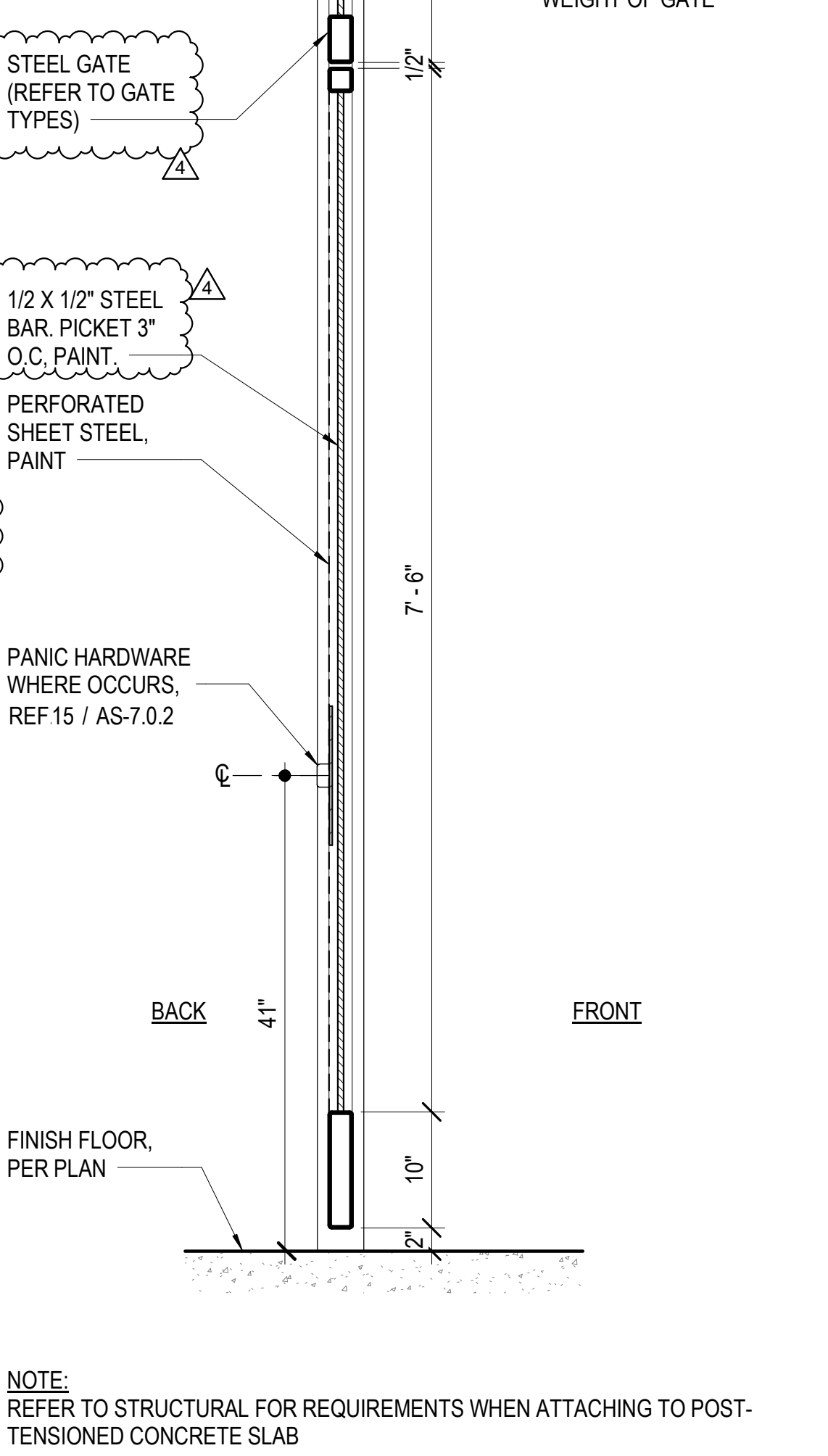
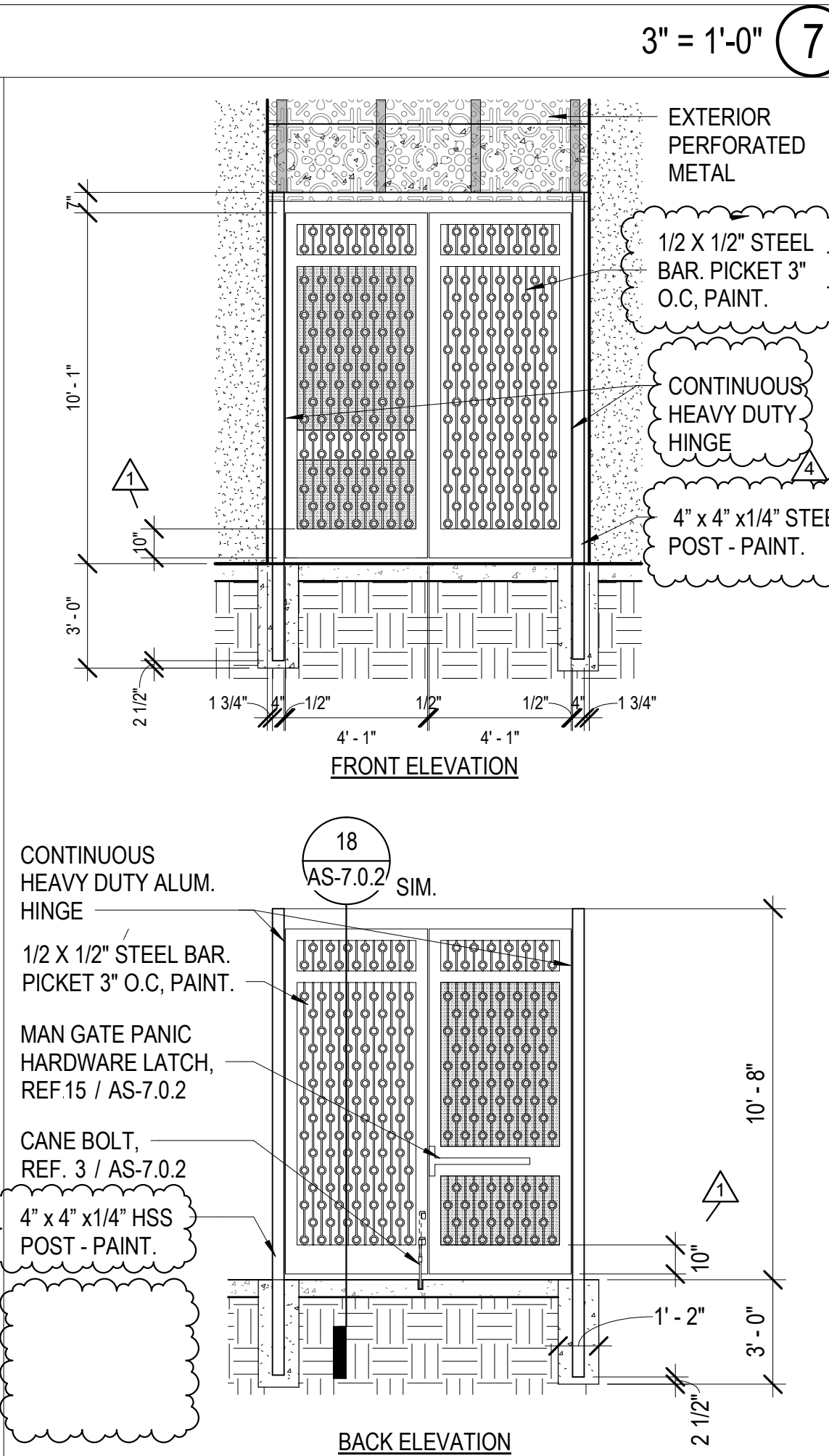
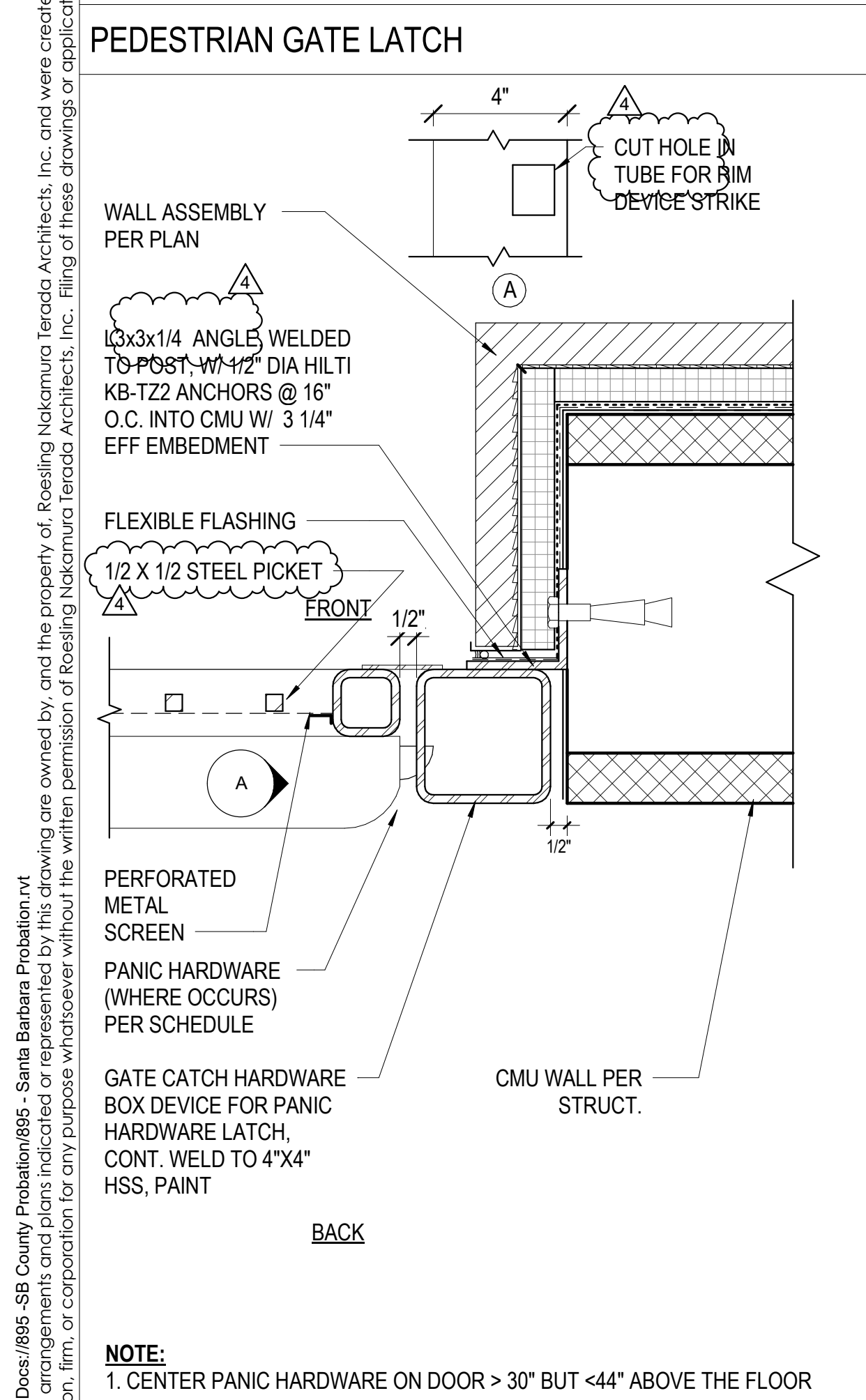
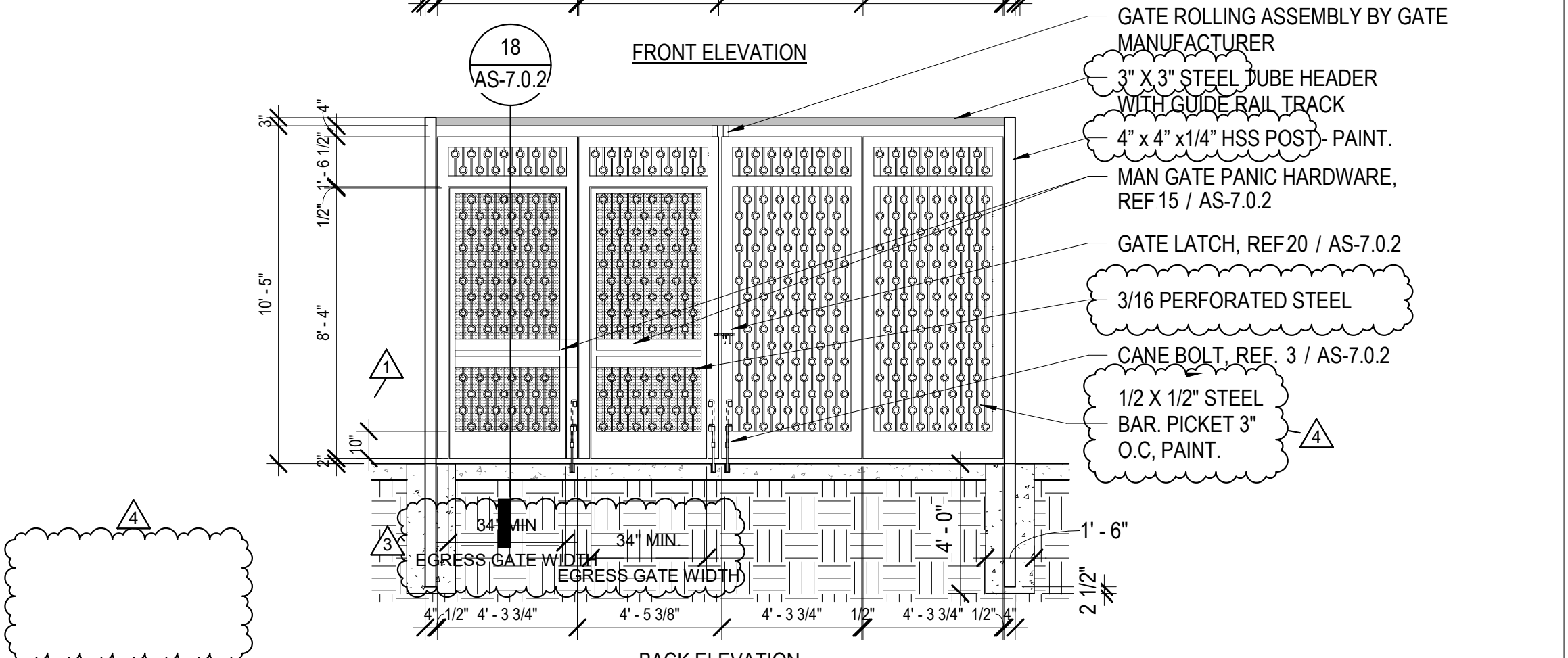
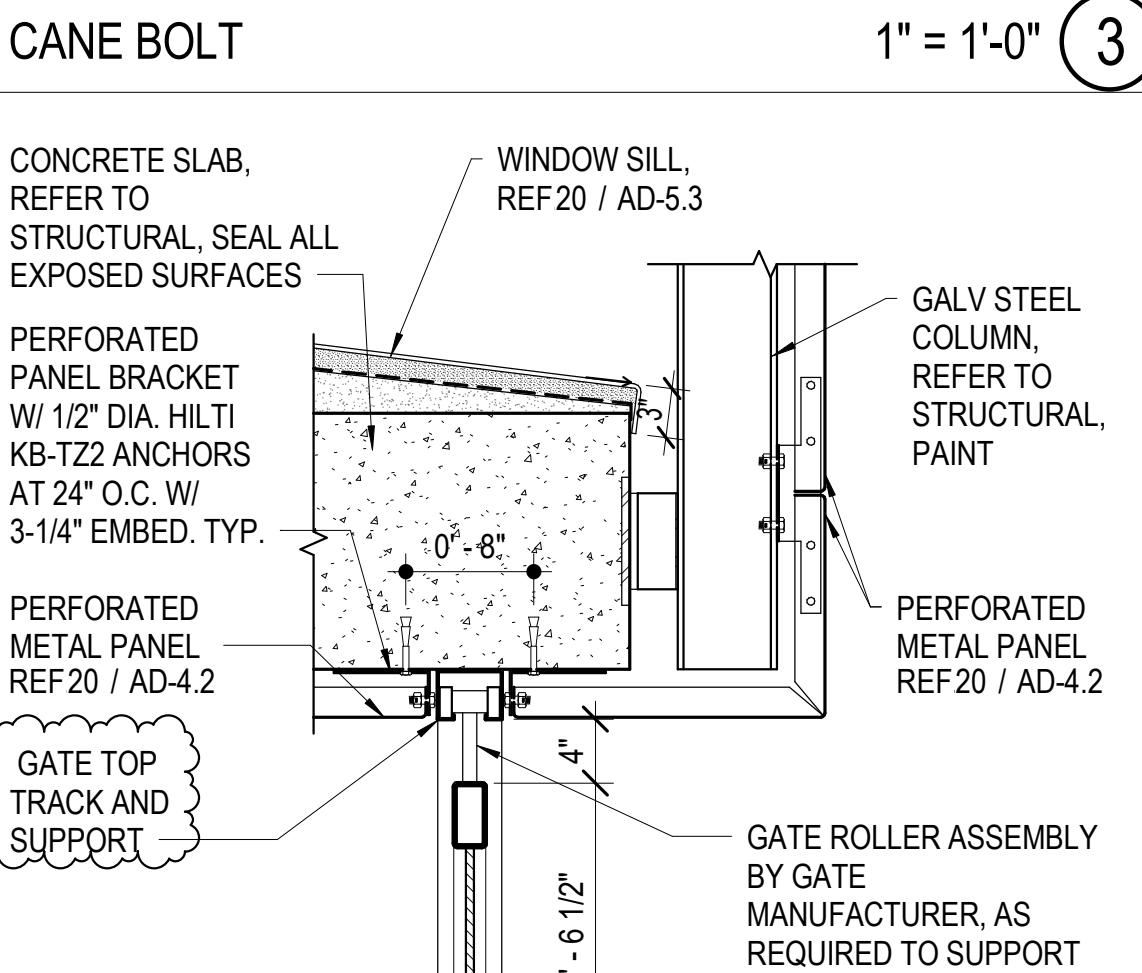
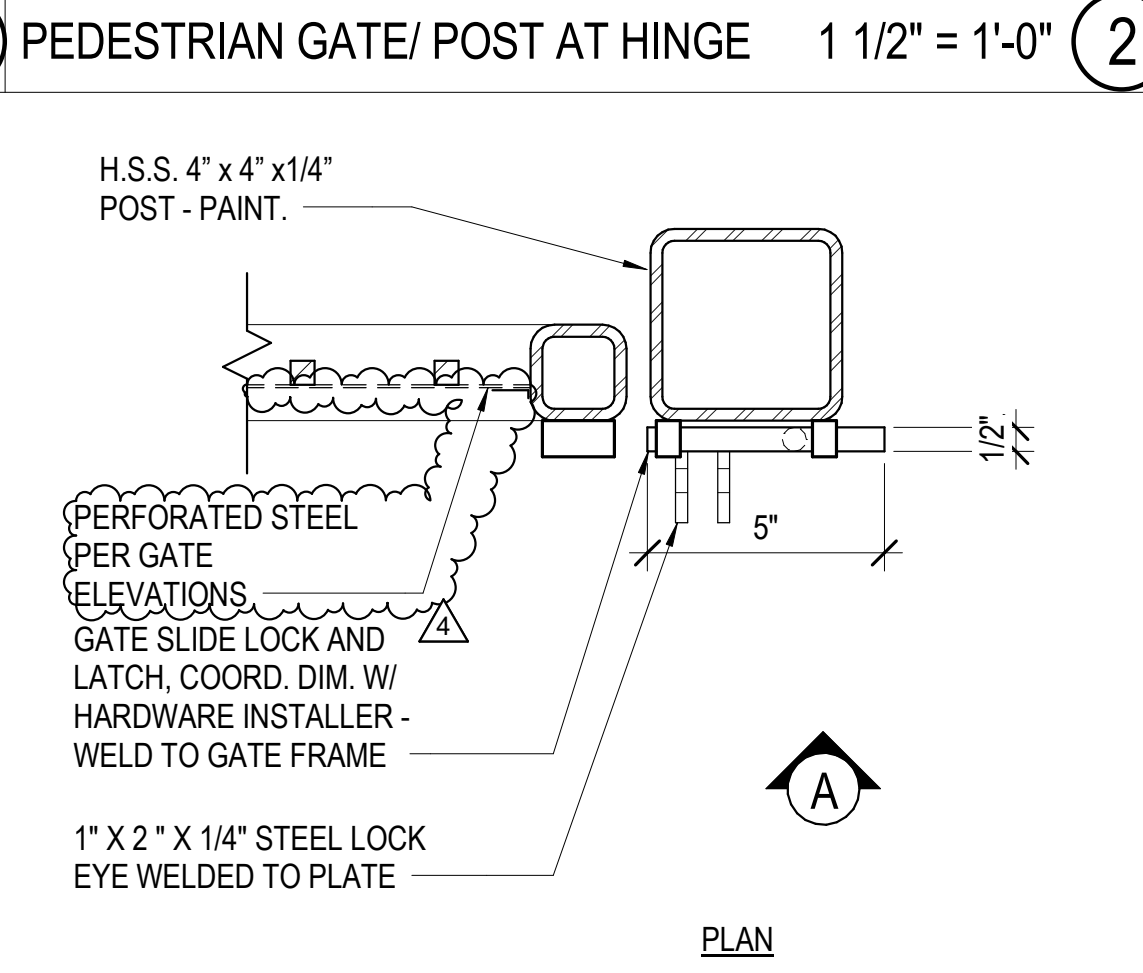
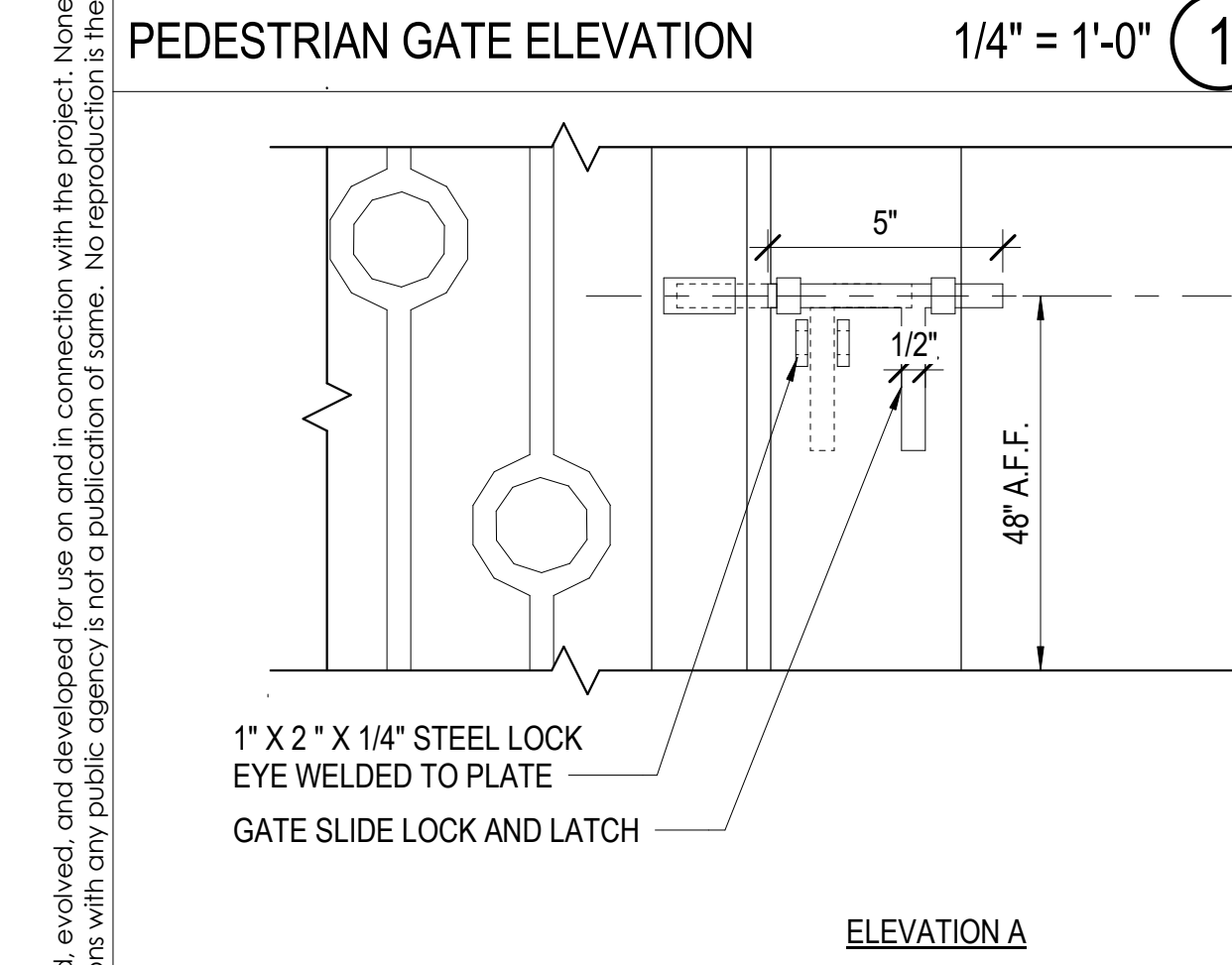
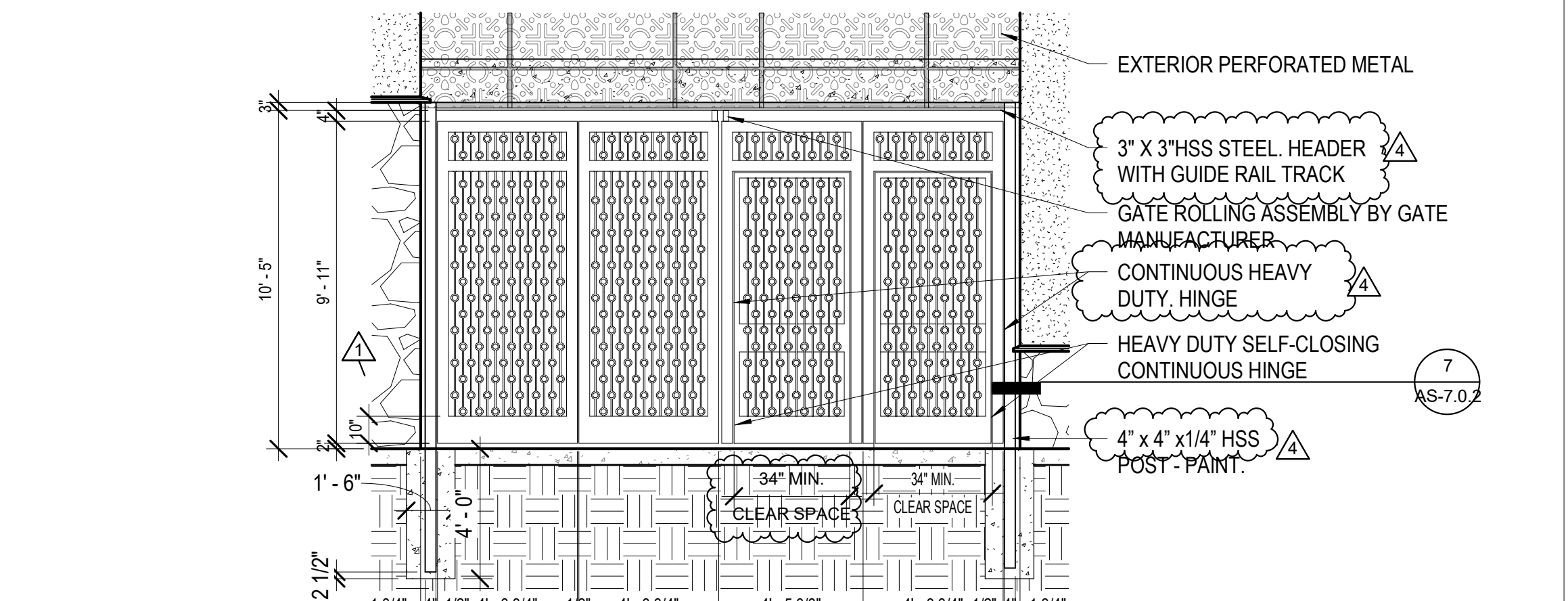
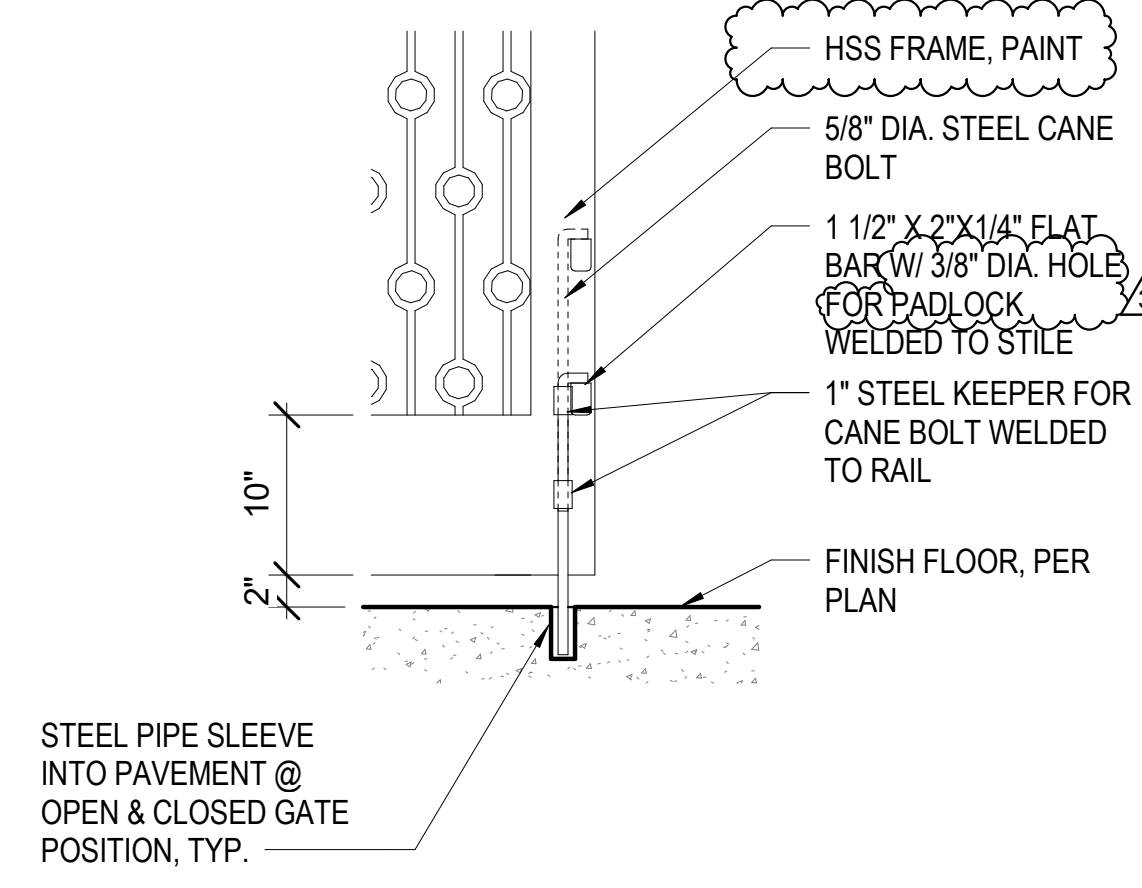
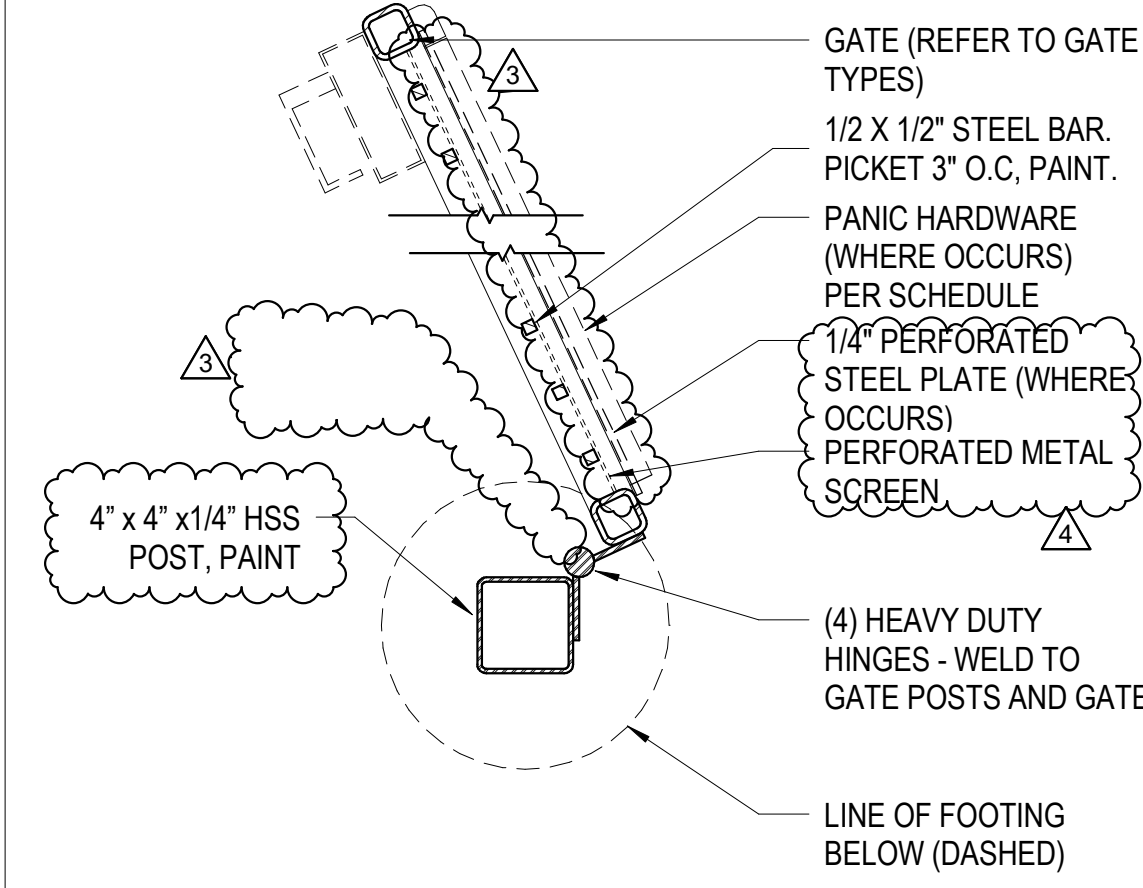
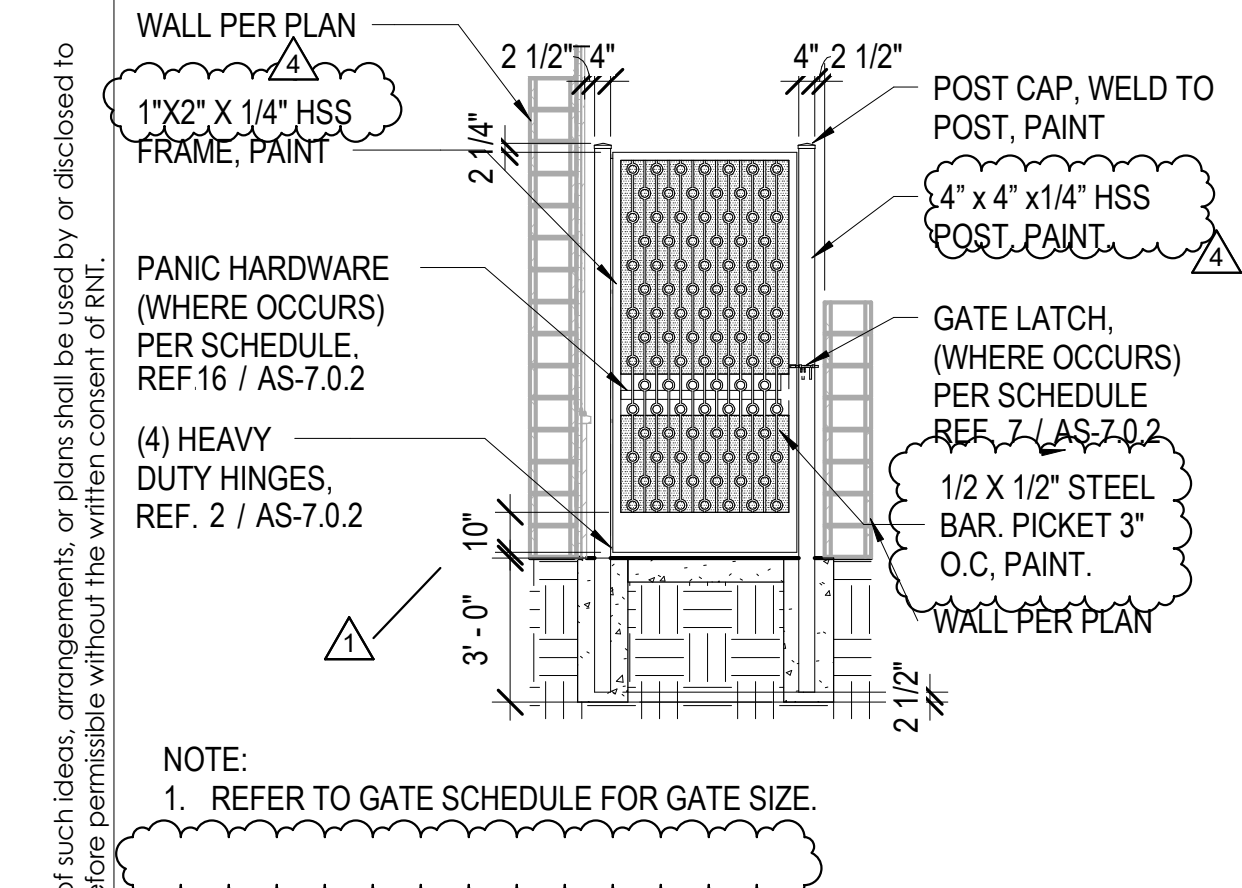
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TYPICAL SITE DETAILS

Date 895.01
3/29/201
Drawn by Author
Checked by Checker
Sheet Number

AS-7.0.1



No.	Description	Date
1	PCC#1	12/19/2023
2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024



PEDESTRIAN GATE PH LATCH 3" = 1'-0" 16

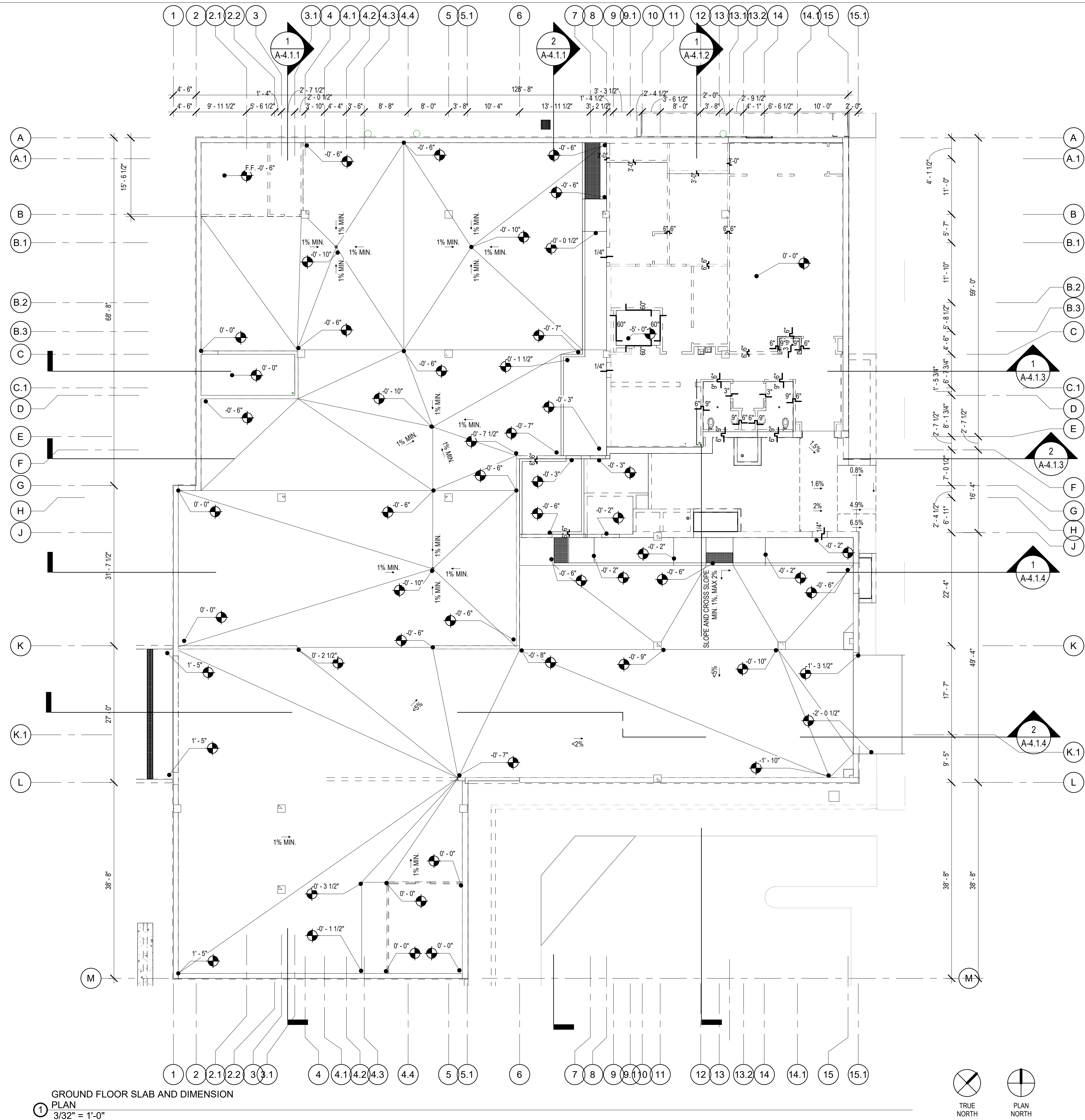
PEDESTRIAN SWING GATE ELEVATION - REAR PASEO 1/4" = 1'-0" 17

PEDESTRIAN GATE SECTION 1" = 1'-0" 18

FOLDING GATE LATCH 3" = 1'-0" 20

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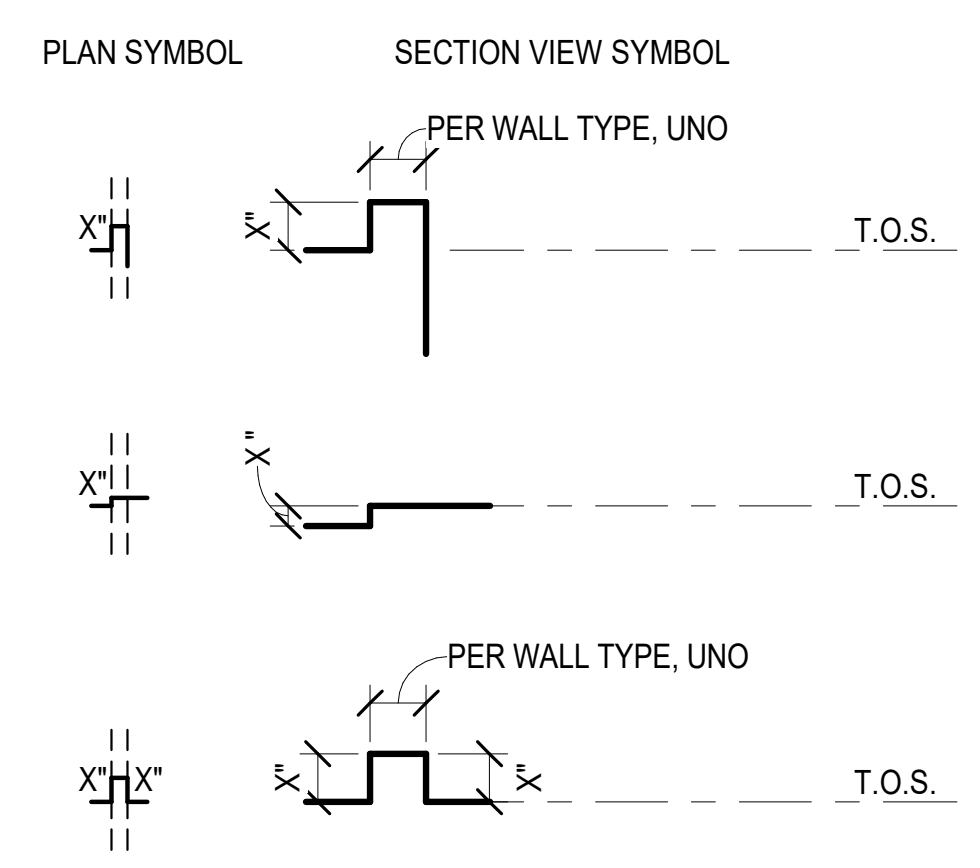
GROUND FLOOR SLAB AND DIMENSION PLAN
 3/32" = 1'-0"

GENERAL NOTES

- SEE SHEET T-1.0 FOR GENERAL NOTES AND STANDARDS.
- SEE SHEET T-2.0 FOR ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND DIMENSIONING STANDARDS.
- ALL DIMENSIONS TO FORMED CONCRETE EDGES ARE TO FACE OF CONCRETE OR FACE OF CURB.
- INTERIOR PARTITION WALL DIMENSIONS ARE SHOWN ON BUILDING SLAB PLANS FOR CLARITY. REFER TO BUILDING FLOOR PLANS FOR EXTERIOR WALL DIMENSIONS AND ADDITIONAL DIMENSION INFORMATION.
- COORDINATE ALL PENETRATIONS/ SLEEVES/ EMBEDS/ CONDUITS AND BLOCKOUTS WITH OTHER TRADES INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, MECHANICAL AND FIRE.
- COORDINATE CURB WIDTHS WITH WALL TYPE DETAILS.
- REFER TO FLOOR PLAN FOR SLOPE OF FLOOR SURFACE; REFER TO FINISH SCHEDULE FOR FLOOR FINISH ASSEMBLIES.
- ELEVATION 0'-0" REFERS TO FINISH FLOOR ELEVATION NOTED IN CIVIL DRAWINGS.
- SLOPES INDICATED ARE FOR ROOFING MEMBRANE AND INSULATION BELOW PEDESTAL SYSTEM WITH LEVEL WALKING SURFACE ABOVE

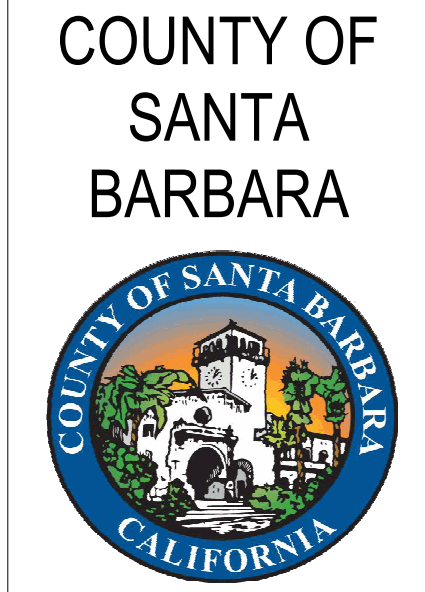
LEGEND

T.O.S. ELEVATIONS INDICATED ABOVE T.O.S.
 F.F. = 0'-0" TYP. UNO



- ENCLOSED BUILDING AREA, SEE FLOOR PLANS
- SLOPE MIN. 3/8" PER FOOT U.N.O.
- RIDGE
- VALLEY

- BUILT-UP SLAB, REFER TO STRUCTURAL DRAWINGS
- LINE OF BEAM BELOW
- FRAMED WALLS
- DECK DRAIN REFER TO 9/AD-7.5
- PLANTER DRAIN REFER TO 10/AD-7.5
- FLOOR DRAIN



PROBATION HEADQUARTERS

1019 GARDEN STREET
 SANTA BARBARA, CA
 93101

BID DOCUMENTS

No.	Description	Date
1	PCC#1	12/19/2023
2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024

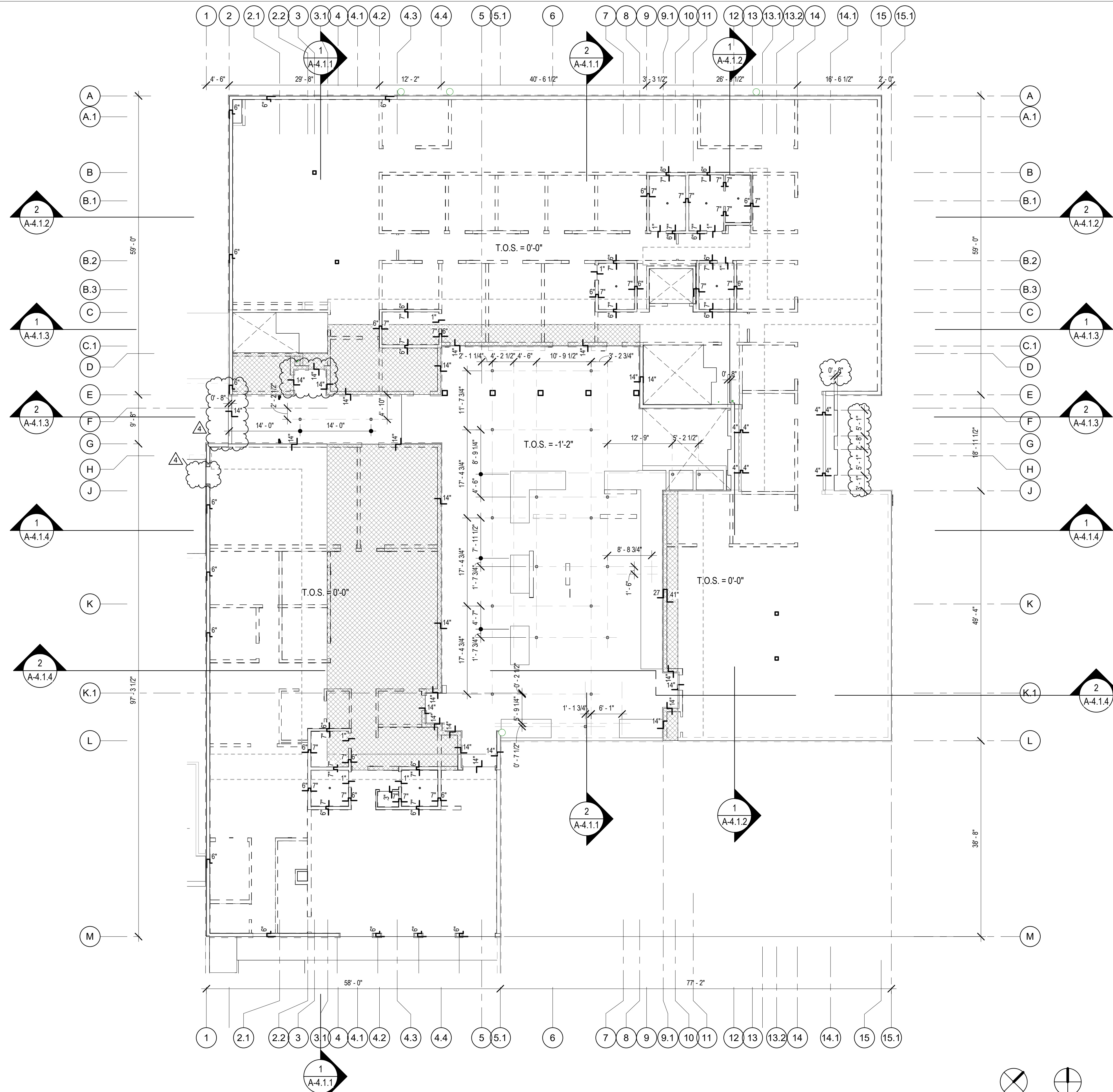
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GROUND FLOOR SLAB AND DIMENSION PLAN

895.01
 Date 3/29/201
 Drawn by Author
 Checked by Checker

Sheet Number
A-1.4.0

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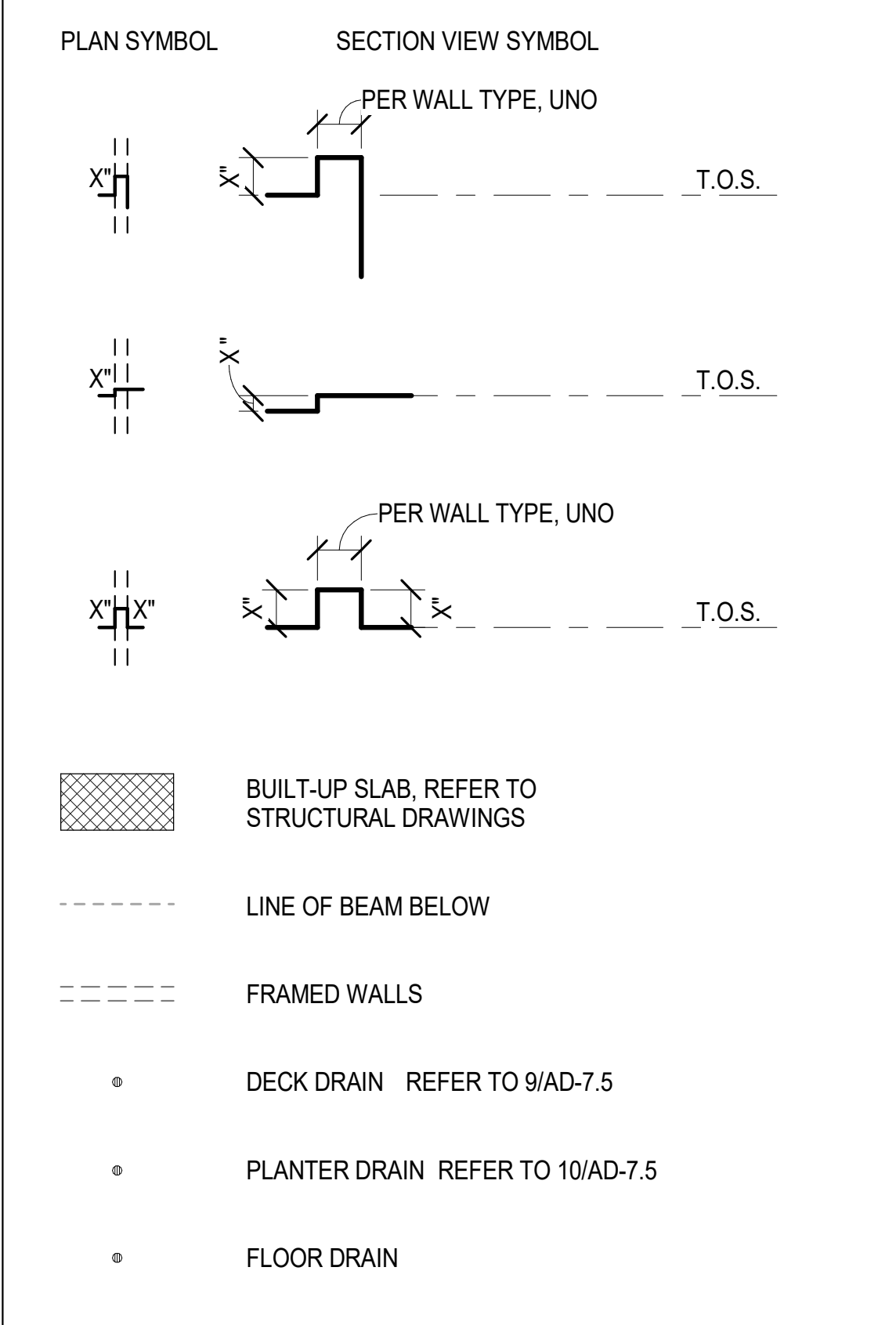


GENERAL NOTES

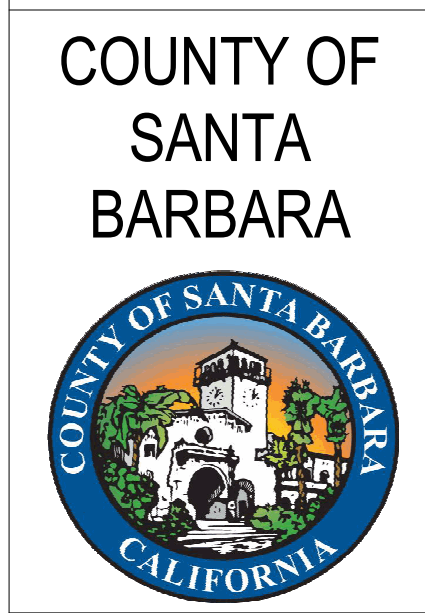
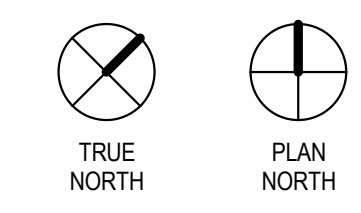
- SEE SHEET T-1.0 FOR GENERAL NOTES AND STANDARDS.
- SEE SHEET T-2.0 FOR ARCHITECTURAL ABBREVIATIONS, SYMBOLS AND DIMENSIONING STANDARDS.
- ALL DIMENSIONS TO FORMED CONCRETE EDGES ARE TO FACE OF CONCRETE OR FACE OF CURB.
- INTERIOR PARTITION WALL DIMENSIONS ARE SHOWN ON BUILDING SLAB PLANS FOR CLARITY. REFER TO BUILDING FLOOR PLANS FOR EXTERIOR WALL DIMENSIONS AND ADDITIONAL DIMENSION INFORMATION.
- COORDINATE ALL PENETRATIONS/ SLEEVES/ EMBEDS/ CONDUITS AND BLOCKOUTS WITH OTHER TRADES INCLUDING BUT NOT LIMITED TO PLUMBING, ELECTRICAL, MECHANICAL AND FIRE.
- COORDINATE CURB WIDTHS WITH WALL TYPE DETAILS.
- REFER TO FLOOR PLAN FOR SLOPE OF FLOOR SURFACE; REFER TO FINISH SCHEDULE FOR FLOOR FINISH ASSEMBLIES.
- ELEVATION 0'-0" REFERS TO FINISH FLOOR ELEVATION NOTED IN CIVIL DRAWINGS.
- SLOPES INDICATED ARE FOR ROOFING MEMBRANE AND INSULATION BELOW PEDESTAL SYSTEM WITH LEVEL WALKING SURFACE ABOVE

LEGEND

T.O.S. ELEVATIONS INDICATED ABOVE T.O.S.
 F.F. = 0'-0" TYP, UNO



1 FIRST FLOOR SLAB AND DIMENSION PLAN
 3/32" = 1'-0"



PROBATION HEADQUARTERS

1019 GARDEN STREET
 SANTA BARBARA, CA
 93101

BID DOCUMENTS

No.	Description	Date
1	PCC#1	12/19/2023
2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024

Sheet Name
FIRST FLOOR SLAB AND DIMENSION PLAN

Date	895.01
Drawn by	3/29/201
Checked by	Author
Sheet Number	Checker

A-1.4.1



BID DOCUMENTS

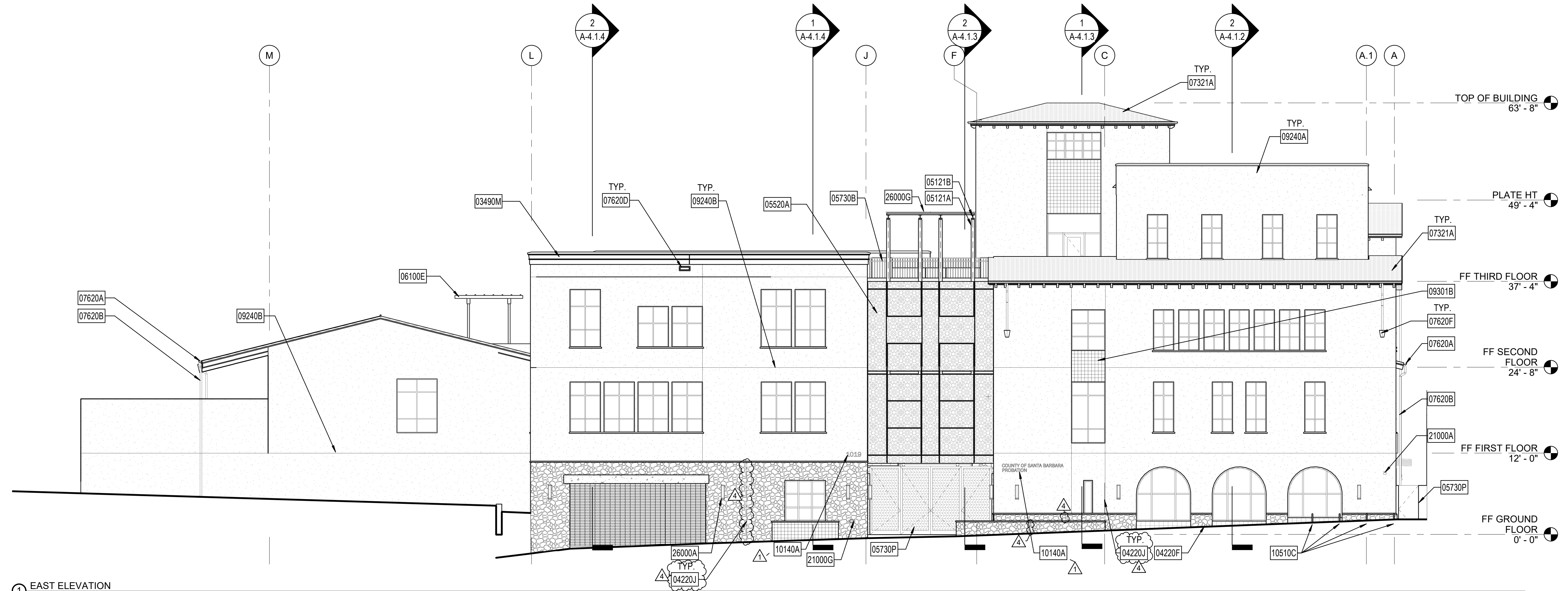
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2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024

Sheet Name

**OVERALL
EXTERIOR
ELEVATION**

Date	895.01
Drawn by	Author
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Sheet Number
A-3.1.1



① EAST ELEVATION
1/8" = 1'-0"

GENERAL NOTES

- NOTES
1. EXTERIOR PLASTER SHALL BE SMOOTH COAT SANTA BARBARA FINISH
2. STONE VENEER SHALL BE SANTA BARBARA SANDSTONE THIN VENEER,
3. EXTERIOR GUTTERS, SHEET METAL FLASHING, DOWNSPOUTS,
CONDUCTOR HEADS, ECT. SHALL BE COPPER.

LEGEND

	SMOOTH COAT CEMENT PLASTER
	STONE VENEER: "SANTA BARBARA SANDSTONE RANDOM ASHLAR"
	PORCELAIN TILE
	2 PIECE CLAY ROOF TILE
	VERTICAL TREATED WOOD SIDING
	EXTERIOR PERFORATED METAL SCREEN

KEYNOTES

03490M	GFRC TRIM TOP CORNICE PROFILE 1, REFER TO 8/AD-7.1
04220F	CONCRETE MASONRY UNIT WALL WITH SANTA BARBARA SANDSTONE RANDOM ASHLAR VENEER, REFER TO WALL TYPES
04220J	CMU EXPANSION JOINT, REFER TO DETAIL 3/AD-4.0 AND STRUCTURAL DRAWINGS
05121A	ARCHITECTURAL EXPOSED (AESS) STEEL COLUMN, GALVANIZED, REFER TO STRUCTURAL DRAWINGS
05121B	ARCHITECTURAL EXPOSED (AESS) STEEL BEAM, GALVANIZED, REFER TO STRUCTURAL DRAWINGS
05520A	EXTERIOR PERFORATED METAL SCREEN, REFER TO AD-4.2
05730B	GUARDRAIL, STEEL (PAINT) WITH WOOD HANDRAIL, REFER TO 9/AD-9.1
05730P	GATE, REFER TO GATE SCHEDULE
06100E	WOOD TRELLIS, REFER TO 1-4/AD-3.0

07321A	2 PIECE ROOF TILE, CLAY, HALF-BARREL, REFER TO AD-7.0
07620A	SHEET METAL GUTTER, COPPER, REFER TO 17/AD-7.0
07620B	DOWNSPOUT, COPPER, REFER TO 20/AD-7.1
07620D	SHEET METAL SCUPPER, COPPER, REFER TO 14/AD-7.2
07620F	COPPER CONDUCTOR HEAD, REFER TO 20/AD-7.2
09240A	PORTLAND CEMENT PLASTER, SMOOTH FINISH
09240B	PORTLAND CEMENT PLASTER CONTROL JOINT, REFER TO 5 AND 7/AD-4.0
09301B	WALL TILE, CERAMIC, REFER TO FINISH SCHEDULE AND AD-12.0
10140A	SIGNAGE, REFER TO FLOOR PLAN AND SIGNAGE SCHEDULE
10510C	BIKE RACK, REFER TO LANDSCAPE, RACK DOES NOT PROTRUDE MORE THAN 4" AT A HEIGHT OF 27" ABOVE FINISH SURFACE.

21000A	FIRE ALARM BELL, DEFERRED SUBMITTAL FOR FIRE ALARM
21000G	FIRE DEPARTMENT 3- WAY FDC, REFER TO FIRE PROTECTION DRAWINGS
26000A	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
26000G	SOLAR PHOTOVOLTAIC PANEL, REFER TO ELECTRICAL DRAWINGS

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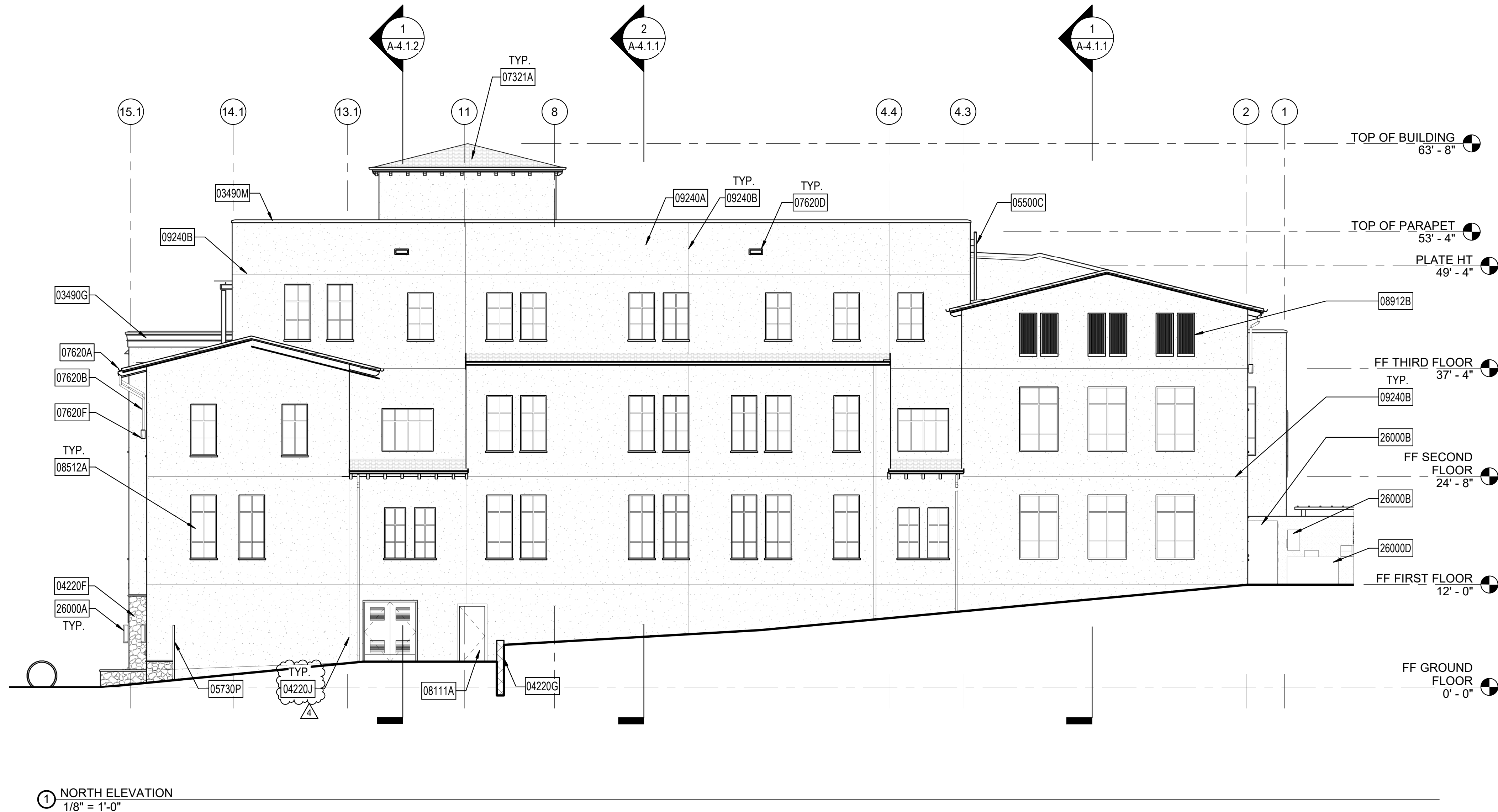
No.	Description	Date
1	PCC#1	12/19/2023
2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024

Sheet Name

**OVERALL
EXTERIOR
ELEVATION**

Date	895.01
Drawn by	3/29/201
Checked by	Author
Sheet Number	Checker

A-3.1.3


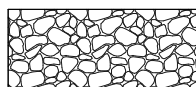

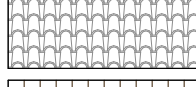




1 NORTH ELEVATION
1/8" = 1'-0"

GENERAL NOTES

- NOTES
1. EXTERIOR PLASTER SHALL BE SMOOTH COAT SANTA BARBARA FINISH
2. STONE VENEER SHALL BE SANTA BARBARA SANDSTONE THIN VENEER,
3. EXTERIOR GUTTERS, SHEET METAL FLASHING, DOWNSPOUTS, CONDUCTOR HEADS, ECT. SHALL BE COPPER.

LEGEND

-  SMOOTH COAT CEMENT PLASTER
-  STONE VENEER: "SANTA BARBARA SANDSTONE RANDOM ASHLAR"
-  PORCELAIN TILE
-  2 PIECE CLAY ROOF TILE
-  VERTICAL TREATED WOOD SIDING
-  EXTERIOR PERFORATED METAL SCREEN

KEYNOTES

- | | | | |
|--------|---|--------|--|
| 03490G | GFRC TRIM TOP CORNICE PROFILE 2, REFER TO 18/AD-7.1 | 08512A | WINDOW, REFER TO WINDOW SCHEDULE |
| 03490M | GFRC TRIM TOP CORNICE PROFILE 1, REFER TO 8/AD-7.1 | 08912B | DRAINABLE-BLADE LOUVER, REFER 7, 12, AND 17 / AD-5.2 |
| 04220F | CONCRETE MASONRY UNIT WALL WITH SANTA BARBARA SANDSTONE RANDOM ASHLAR VENEER, REFER TO WALL TYPES | 09240A | PORTLAND CEMENT PLASTER, SMOOTH FINISH |
| 04220G | CONCRETE MASONRY UNIT RETAINING WALL, REFER TO DETAIL 16/AS-7.0.0 AND STRUCTURAL | 09240B | PORTLAND CEMENT PLASTER CONTROL JOINT, REFER TO 5 AND 7/AD-4.0 |
| 04220J | CMU EXPANSION JOINT, REFER TO DETAIL 3/AD-4.0 AND STRUCTURAL DRAWINGS | 26000A | LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS |
| 05500C | ROOF ACCESS LADDER, REFER TO 4/AD-4.1 | 26000B | ELECTRICAL EQUIPMENT ON CONCRETE PAD, REFER TO ELECTRICAL DRAWINGS |
| 05730P | GATE, REFER TO GATE SCHEDULE | 26000D | TRANSFORMER, REFER TO ELECTRICAL DRAWINGS |
| 07321A | 2 PIECE ROOF TILE, CLAY, HALF-BARREL, REFER TO AD-7.0 | | |
| 07620A | SHEET METAL GUTTER, COPPER, REFER TO 17/AD-7.0 | | |
| 07620B | DOWNSPOUT, COPPER, REFER TO 20/AD-7.1 | | |
| 07620D | SHEET METAL SCUPPER, COPPER, REFER TO 14/AD-7.2 | | |
| 07620F | COPPER CONDUCTOR HEAD, REFER TO 20/AD-7.2 | | |
| 08111A | DOOR, ALUMINUM, REFER TO DOOR SCHEDULE | | |

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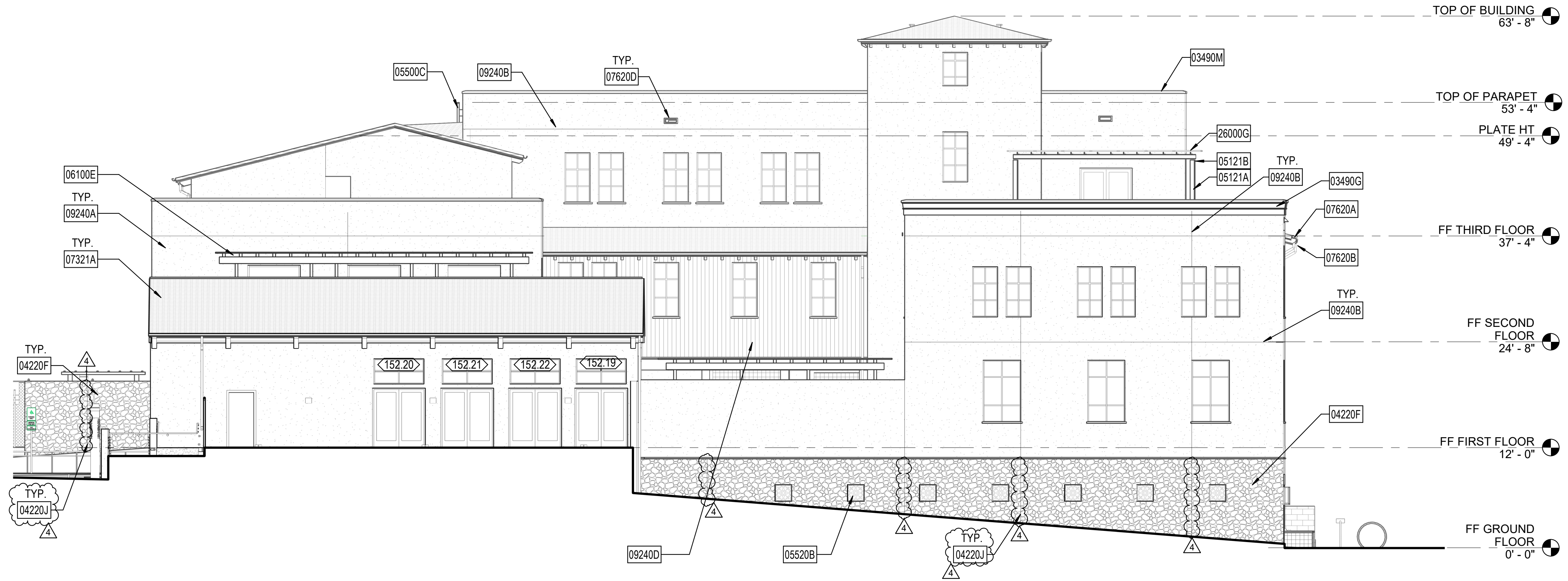
No.	Description	Date
1	PCC#1	12/19/2023
2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024

Sheet Name

**OVERALL
EXTERIOR
ELEVATION**

Date	895.01
Drawn by	Author
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Sheet Number	

A-3.1.4



1 SOUTH ELEVATION
1/8" = 1'-0"

GENERAL NOTES

- NOTES
1. EXTERIOR PLASTER SHALL BE SMOOTH COAT SANTA BARBARA FINISH
2. STONE VENEER SHALL BE SANTA BARBARA SANDSTONE THIN VENEER,
3. EXTERIOR GUTTERS, SHEET METAL FLASHING, DOWNSPOUTS, CONDUCTOR HEADS, ECT. SHALL BE COPPER.

LEGEND

	SMOOTH COAT CEMENT PLASTER
	STONE VENEER: "SANTA BARBARA SANDSTONE RANDOM ASHLAR"
	PORCELAIN TILE
	2 PIECE CLAY ROOF TILE
	VERTICAL TREATED WOOD SIDING
	EXTERIOR PERFORATED METAL SCREEN

KEYNOTES

03490G	GFRG TRIM TOP CORNICE PROFILE 2, REFER TO 18/AD-7.1	05520B	EXTERIOR PERFORATED METAL SCREEN, REFER TO 7/AD-4.2
03490M	GFRG TRIM TOP CORNICE PROFILE 1, REFER TO 8/AD-7.1	06100E	WOOD TRELLIS, REFER TO 1-4/AD-3.0
04220F	CONCRETE MASONRY UNIT WALL WITH SANTA BARBARA SANDSTONE RANDOM ASHLAR VENEER, REFER TO WALL TYPES	07321A	2 PIECE ROOF TILE, CLAY, HALF-BARREL, REFER TO AD-7.0
04220J	CMU EXPANSION JOINT, REFER TO DETAIL 3/AD-4.0 AND STRUCTURAL DRAWINGS	07620A	SHEET METAL GUTTER, COPPER, REFER TO 17/AD-7.0
05121A	ARCHITECTURAL EXPOSED (AESS) STEEL COLUMN, GALVANIZED, REFER TO STRUCTURAL DRAWINGS	07620B	DOWNSPOUT, COPPER, REFER TO 20/AD-7.1
05121B	ARCHITECTURAL EXPOSED (AESS) STEEL BEAM, GALVANIZED, REFER TO STRUCTURAL DRAWINGS	07620D	SHEET METAL SCUPPER, COPPER, REFER TO 14/AD-7.2
05500C	ROOF ACCESS LADDER, REFER TO 4/AD-4.1	09240A	PORTLAND CEMENT PLASTER, SMOOTH FINISH
		09240B	PORTLAND CEMENT PLASTER CONTROL JOINT, REFER TO 5 AND 7/AD-4.0
		09240D	VERTICAL TREATED WOOD SIDING, PAINT, REFER TO W7/AD-0.0
		26000G	SOLAR PHOTOVOLTAIC PANEL, REFER TO ELECTRICAL DRAWINGS

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1019 GARDEN STREET
SANTA BARBARA, CA
93101

BID DOCUMENTS

No.	Description	Date
1	PCC#1	12/19/2023
2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024

Sheet Name

**PARTIAL
EXTERIOR
ELEVATIONS**

Date 895.01
3/29/201
Author
Checked by
Checker

Sheet Number
A-3.1.5

GENERAL NOTES

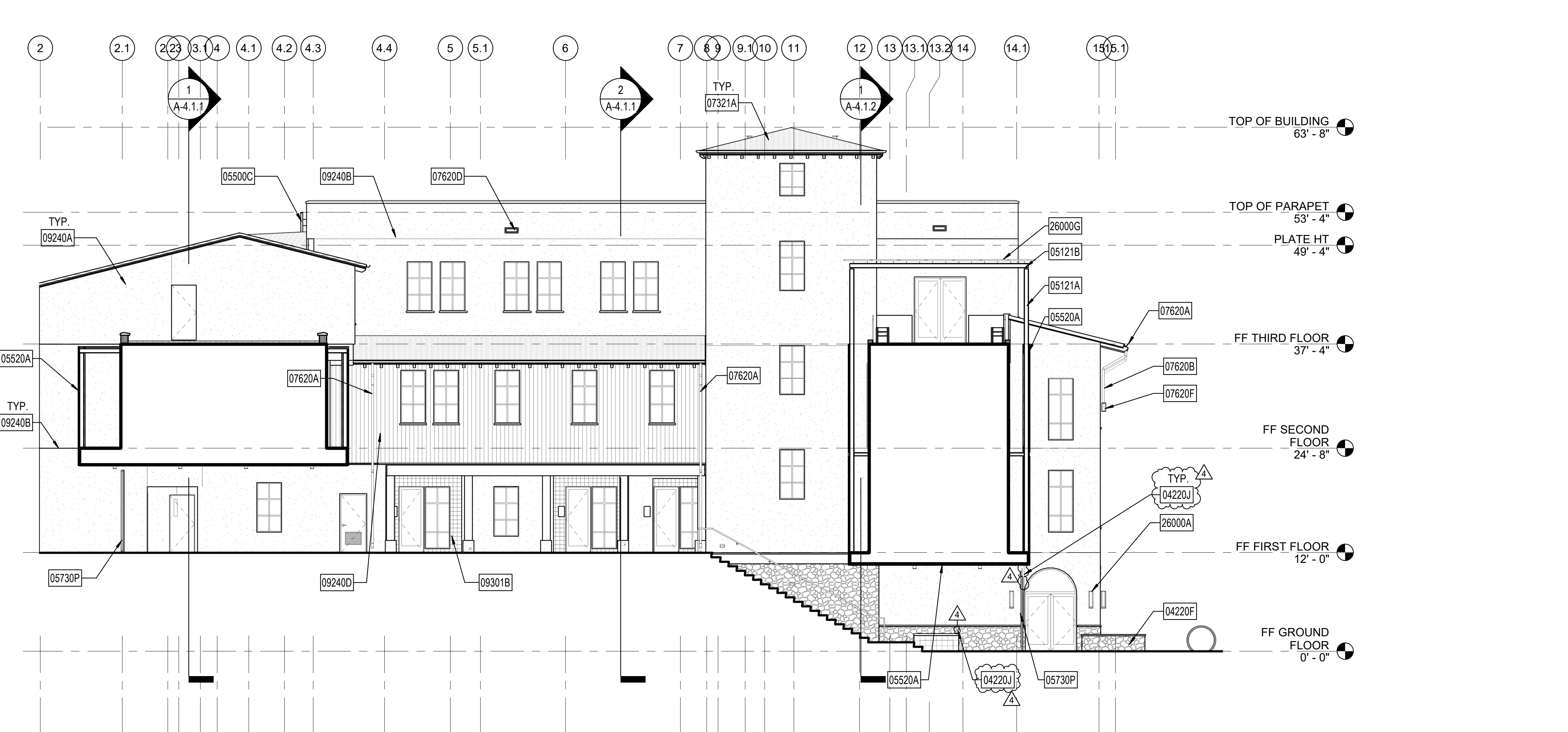
- NOTES
1. EXTERIOR PLASTER SHALL BE SMOOTH COAT SANTA BARBARA FINISH
2. STONE VENEER SHALL BE SANTA BARBARA SANDSTONE THIN VENEER,
3. EXTERIOR GUTTERS, SHEET METAL FLASHING, DOWNSPOUTS, CONDUCTOR HEADS, ECT. SHALL BE COPPER.

LEGEND

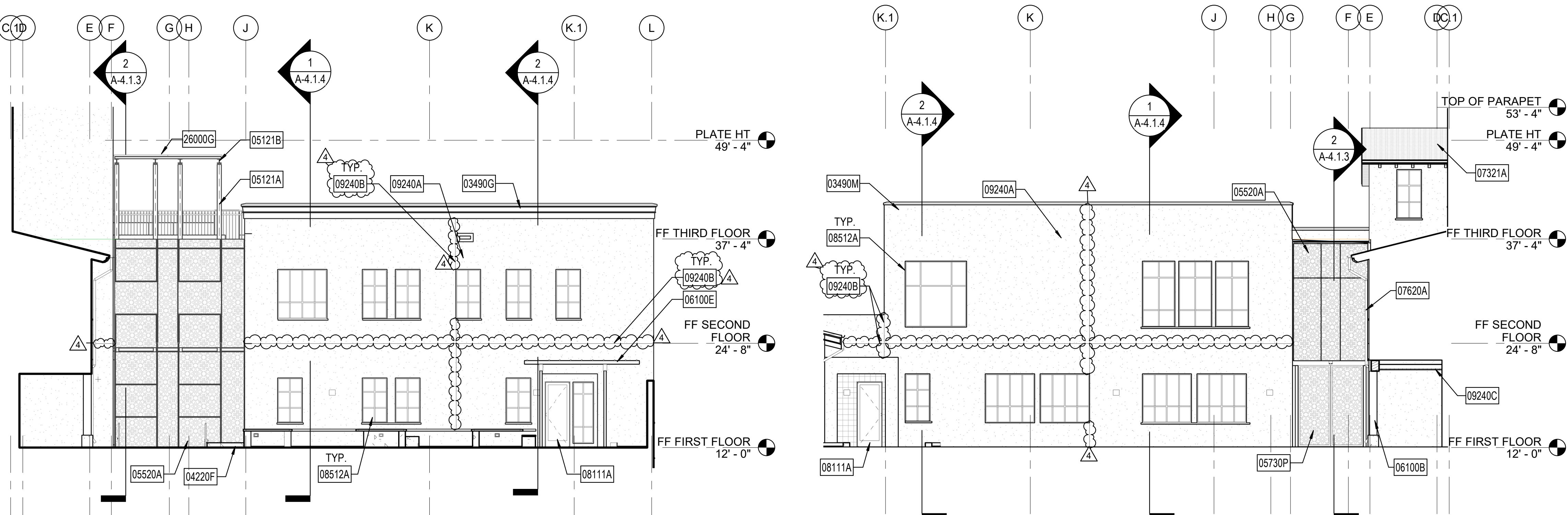
- SMOOTH COAT CEMENT PLASTER
- STONE VENEER: "SANTA BARBARA SANDSTONE RANDOM ASHLAR"
- PORCELAIN TILE
- 2 PIECE CLAY ROOF TILE
- VERTICAL TREATED WOOD SIDING
- EXTERIOR PERFORATED METAL SCREEN

KEYNOTES

- 03490G GFRC TRIM TOP CORNICE PROFILE 2, REFER TO 18/AD-7.1
- 03490M GFRC TRIM TOP CORNICE PROFILE 1, REFER TO 8/AD-7.1
- 04220F CONCRETE MASONRY UNIT WALL WITH SANTA BARBARA SANDSTONE RANDOM ASHLAR VENEER, REFER TO WALL TYPES
- 04220J CMU EXPANSION JOINT, REFER TO DETAIL 3/AD-4.0 AND STRUCTURAL DRAWINGS
- 05121A ARCHITECTURAL EXPOSED (AESS) STEEL COLUMN, GALVANIZED, REFER TO STRUCTURAL DRAWINGS
- 05121B ARCHITECTURAL EXPOSED (AESS) STEEL BEAM, GALVANIZED, REFER TO STRUCTURAL DRAWINGS
- 05500C ROOF ACCESS LADDER, REFER TO 4/AD-4.1
- 05520A EXTERIOR PERFORATED METAL SCREEN, REFER TO AD-4.2
- 05730P GATE, REFER TO GATE SCHEDULE
- 06100B WOOD COLUMN, REFER TO STRUCTURAL
- 06100E WOOD TRELLIS, REFER TO 1-4/AD-3.0
- 07321A 2 PIECE ROOF TILE, CLAY, HALF-BARREL, REFER TO AD-7.0
- 07620A SHEET METAL GUTTER, COPPER, REFER TO 17/AD-7.0
- 07620B DOWNSPOUT, COPPER, REFER TO 20/AD-7.1
- 07620D SHEET METAL SCUPPER, COPPER, REFER TO 14/AD-7.2
- 07620F COPPER CONDUCTOR HEAD, REFER TO 20/AD-7.2
- 08111A DOOR, ALUMINUM, REFER TO DOOR SCHEDULE
- 08512A WINDOW, REFER TO WINDOW SCHEDULE
- 09240A PORTLAND CEMENT PLASTER, SMOOTH FINISH
- 09240B PORTLAND CEMENT PLASTER CONTROL JOINT, REFER TO 5 AND 7/AD-4.0
- 09240C PORTLAND CEMENT PLASTER SOFFIT
- 09240D VERTICAL TREATED WOOD SIDING, PAINT, REFER TO W7/AD-0.0
- 09301B WALL TILE, CERAMIC, REFER TO FINISH SCHEDULE AND AD-12.0
- 26000A LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
- 26000G SOLAR PHOTOVOLTAIC PANEL, REFER TO ELECTRICAL DRAWINGS



1 COURTYARD NORTH ELEVATION
1/8" = 1'-0"

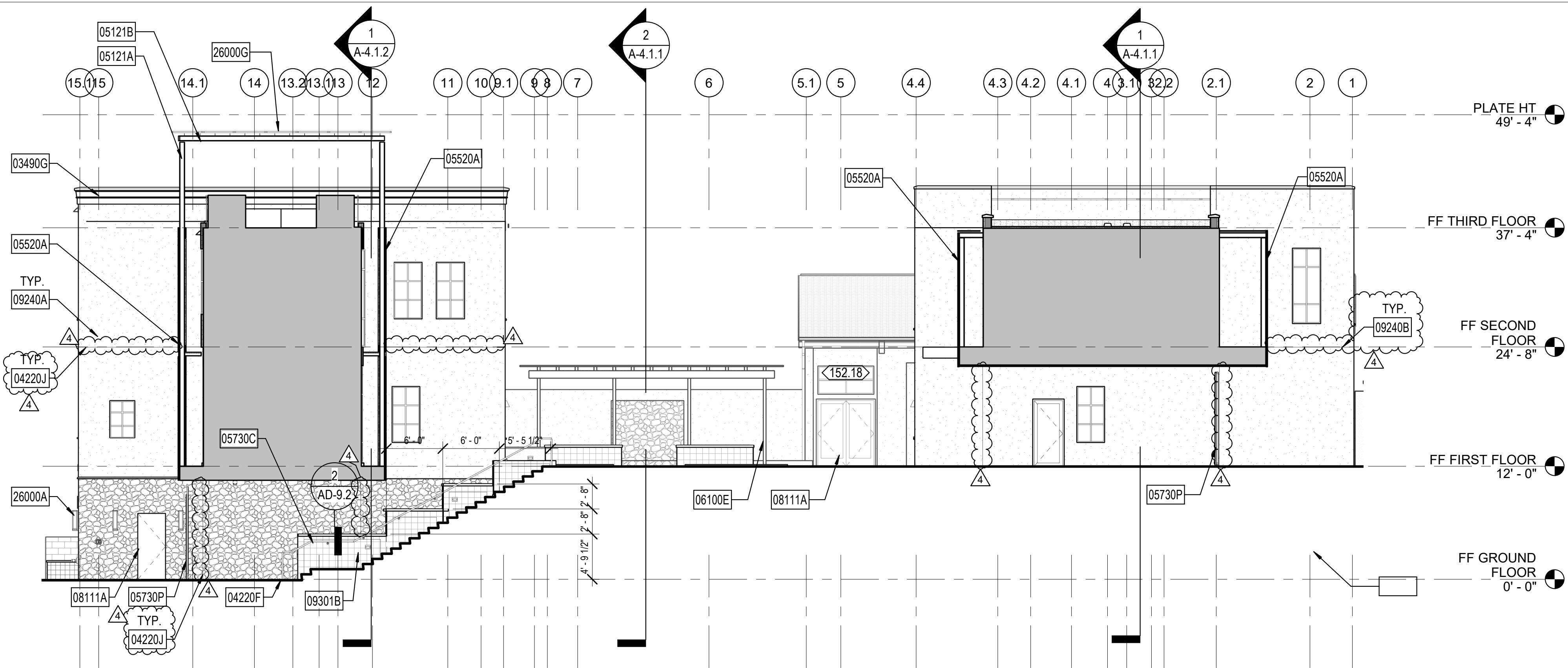


2 COURTYARD EAST ELEVATION
1/8" = 1'-0"

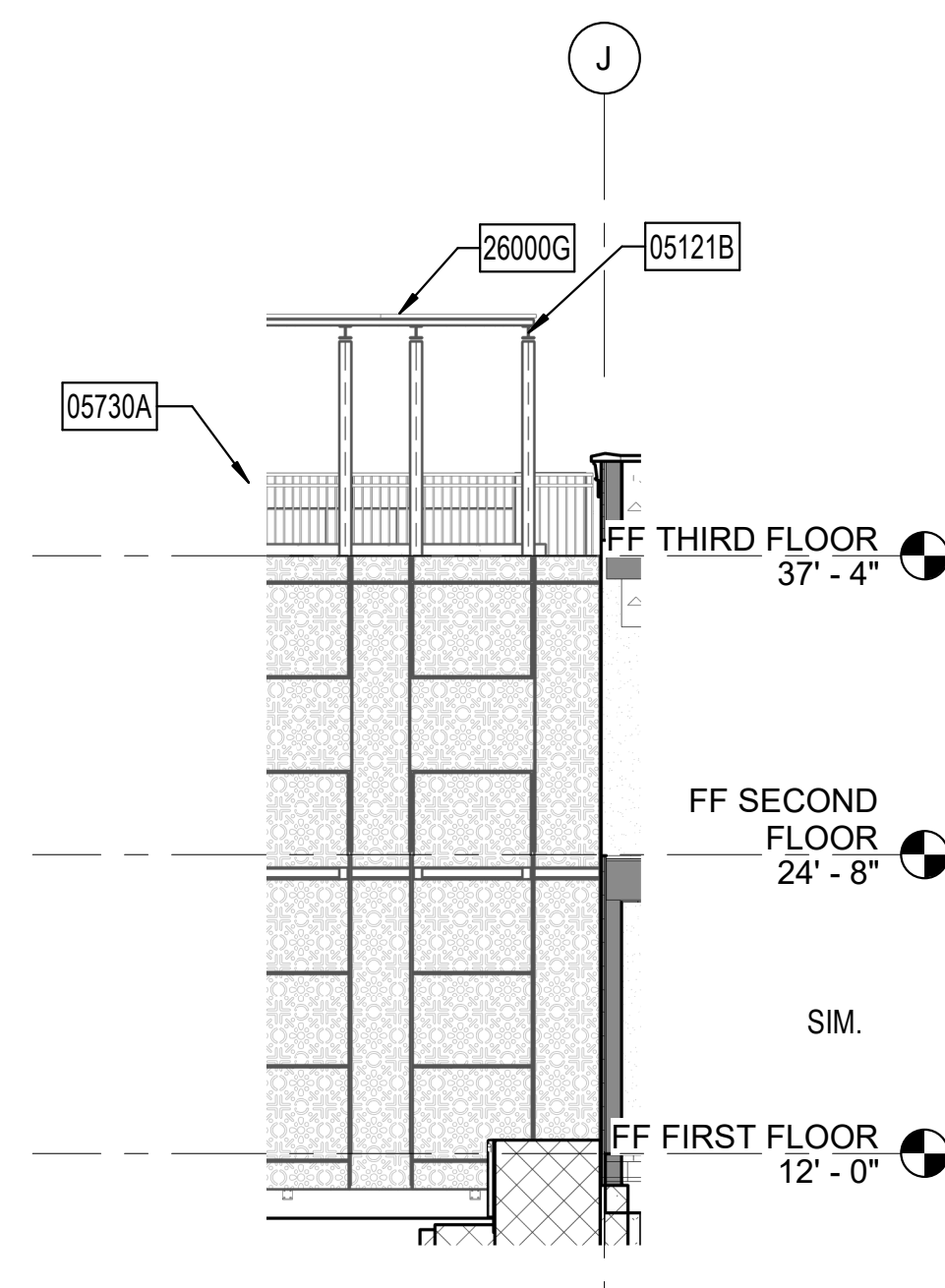
3 COURTYARD WEST ELEVATION
1/8" = 1'-0"

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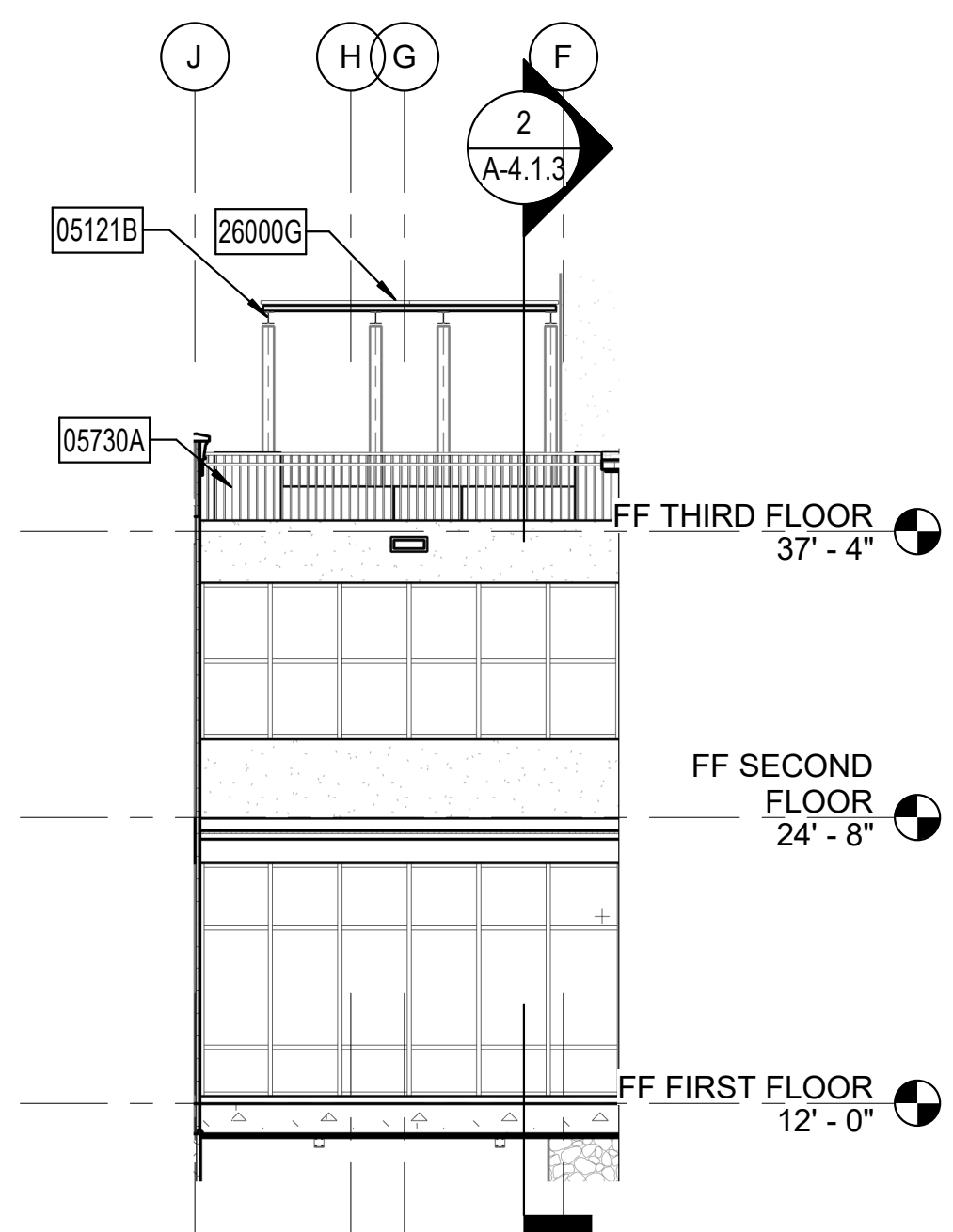
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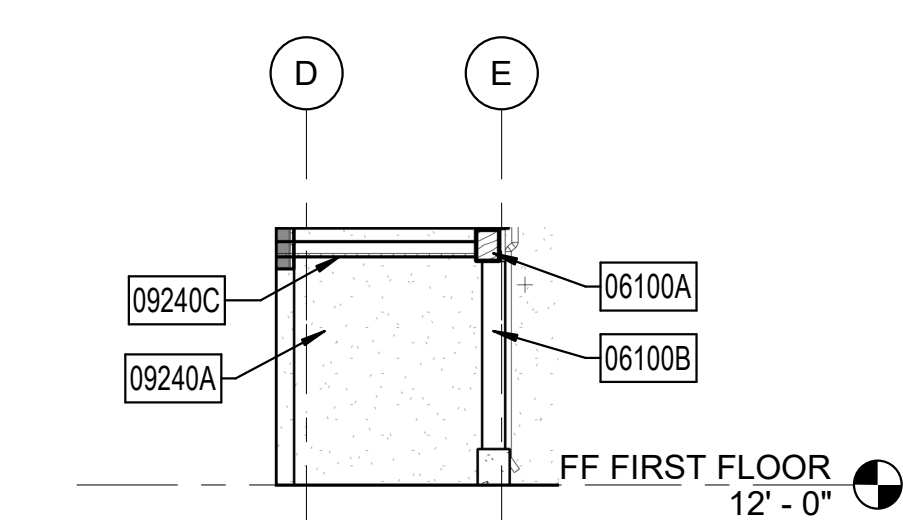
1 COURTYARD SOUTH ELEVATION
1/8" = 1'-0"



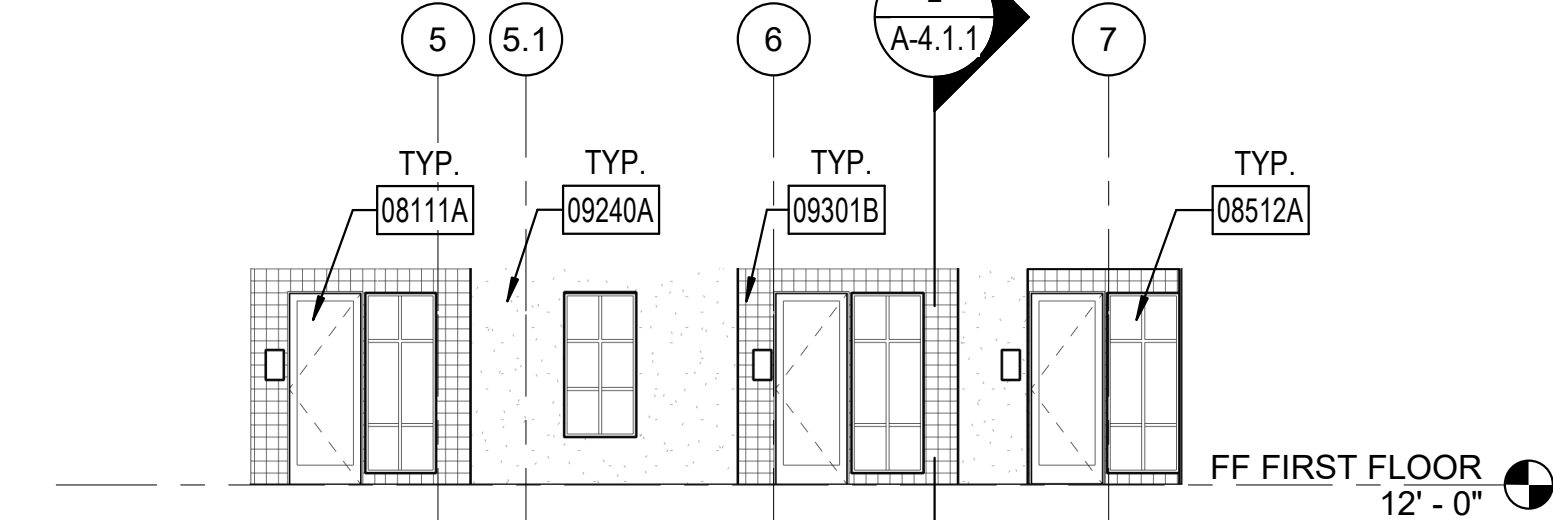
2 PARTIAL EXTERIOR ELEVATION BEHIND SCREEN WEST
1/8" = 1'-0"



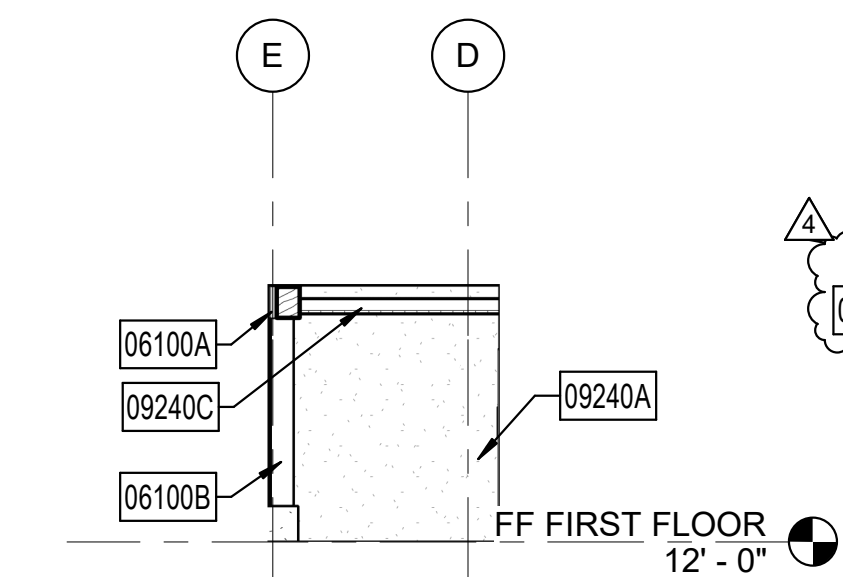
3 PARTIAL EXTERIOR ELEVATION BEHIND SCREEN EAST
1/8" = 1'-0"



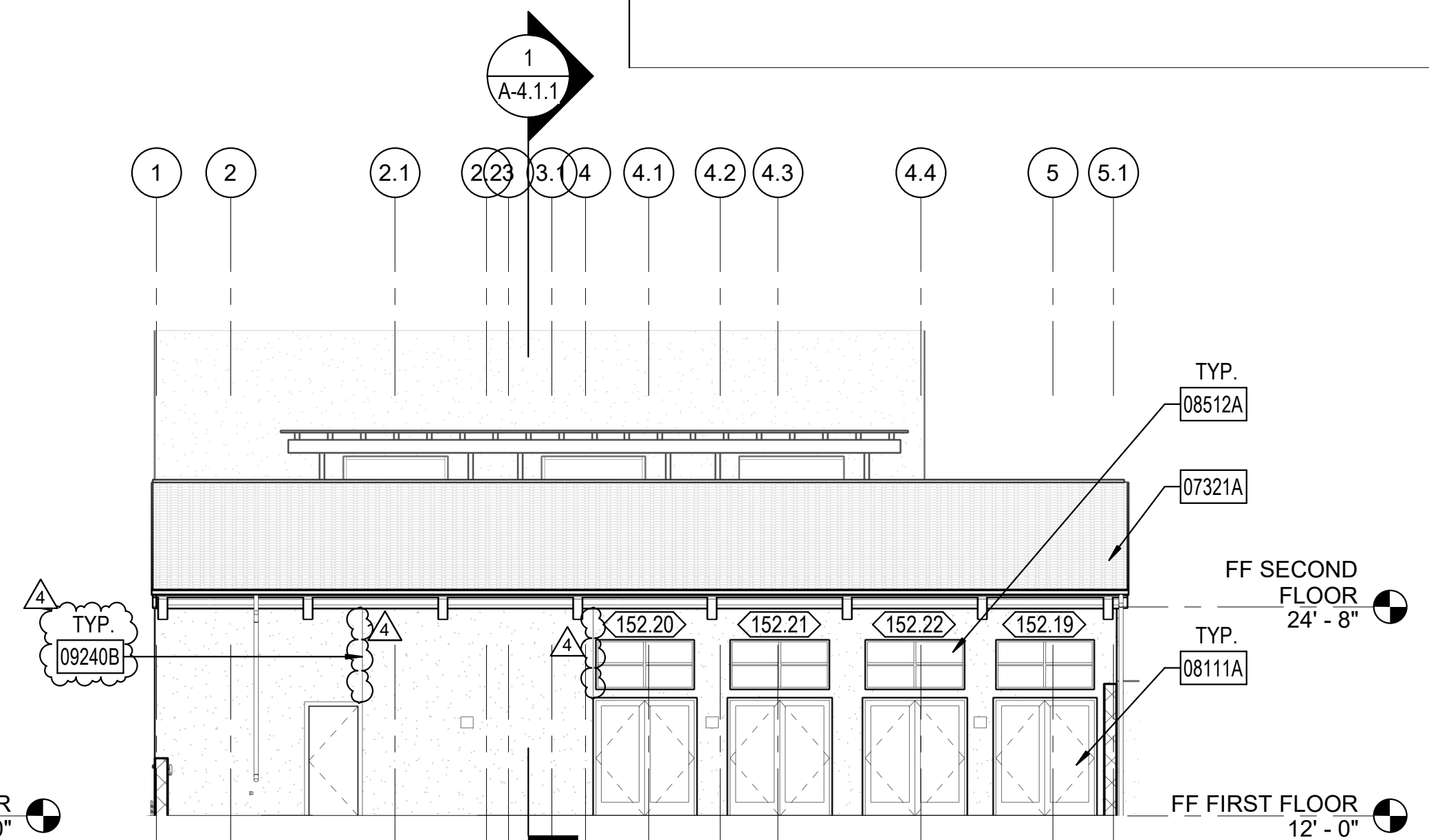
4 LOBBY ALCOVE EAST ELEVATION
1/8" = 1'-0"



5 LOBBY ALCOVE NORTH ELEVATION
1/8" = 1'-0"



6 LOBBY ALCOVE WEST ELEVATION
1/8" = 1'-0"



7 TRAINING RM PATIO NORTH ELEVATION
1/8" = 1'-0"

GENERAL NOTES

NOTES

- EXTERIOR PLASTER SHALL BE SMOOTH COAT SANTA BARBARA FINISH
- STONE VENEER SHALL BE SANTA BARBARA SANDSTONE THIN VENEER,
- EXTERIOR GUTTERS, SHEET METAL FLASHING, DOWNSPOUTS, CONDUCTOR HEADS, ECT. SHALL BE COPPER.

LEGEND

- SMOOTH COAT CEMENT PLASTER
- STONE VENEER: "SANTA BARBARA SANDSTONE RANDOM ASHLAR"
- PORCELAIN TILE
- 2 PIECE CLAY ROOF TILE
- VERTICAL TREATED WOOD SIDING
- EXTERIOR PERFORATED METAL SCREEN

KEYNOTES

- 03490G GFRFC TRIM TOP CORNICE PROFILE 2, REFER TO 18/AD-7.1
- 04220F CONCRETE MASONRY UNIT WALL WITH SANTA BARBARA SANDSTONE RANDOM ASHLAR VENEER, REFER TO WALL TYPES
- 04220J CMU EXPANSION JOINT, REFER TO DETAIL 3/AD-4.0 AND STRUCTURAL DRAWINGS.
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- 05121B ARCHITECTURAL EXPOSED (AESS) STEEL BEAM, GALVANIZED, REFER TO STRUCTURAL DRAWINGS
- 05520A EXTERIOR PERFORATED METAL SCREEN, REFER TO AD-4.2
- 05730A ANODIZED ALUMINUM GUARDRAIL, PAINT, REFER TO 13/AD-4.2
- 05730C HANDRAIL, DARK BRONZE ANODIZED ALUMINUM, WALL MOUNT, REFER TO 9/AD-9.1 AND 2/AD-9.2
- 05730P GATE, REFER TO GATE SCHEDULE
- 06100A WOOD BEAM, REFER TO STRUCTURAL
- 06100B WOOD COLUMN, REFER TO STRUCTURAL
- 06100E WOOD TRELLIS, REFER TO 1-4/AD-3.0
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- 26000G SOLAR PHOTOVOLTAIC PANEL, REFER TO ELECTRICAL DRAWINGS



COUNTY OF SANTA BARBARA



PROBATION HEADQUARTERS

1019 GARDEN STREET
SANTA BARBARA, CA 93101

BID DOCUMENTS

No.	Description	Date
1	PCC#1	12/19/2023
2	PCC#2	1/22/2024
3	FOR PERMIT	3/29/2024
4	ADDENDUM #2	4/27/2024

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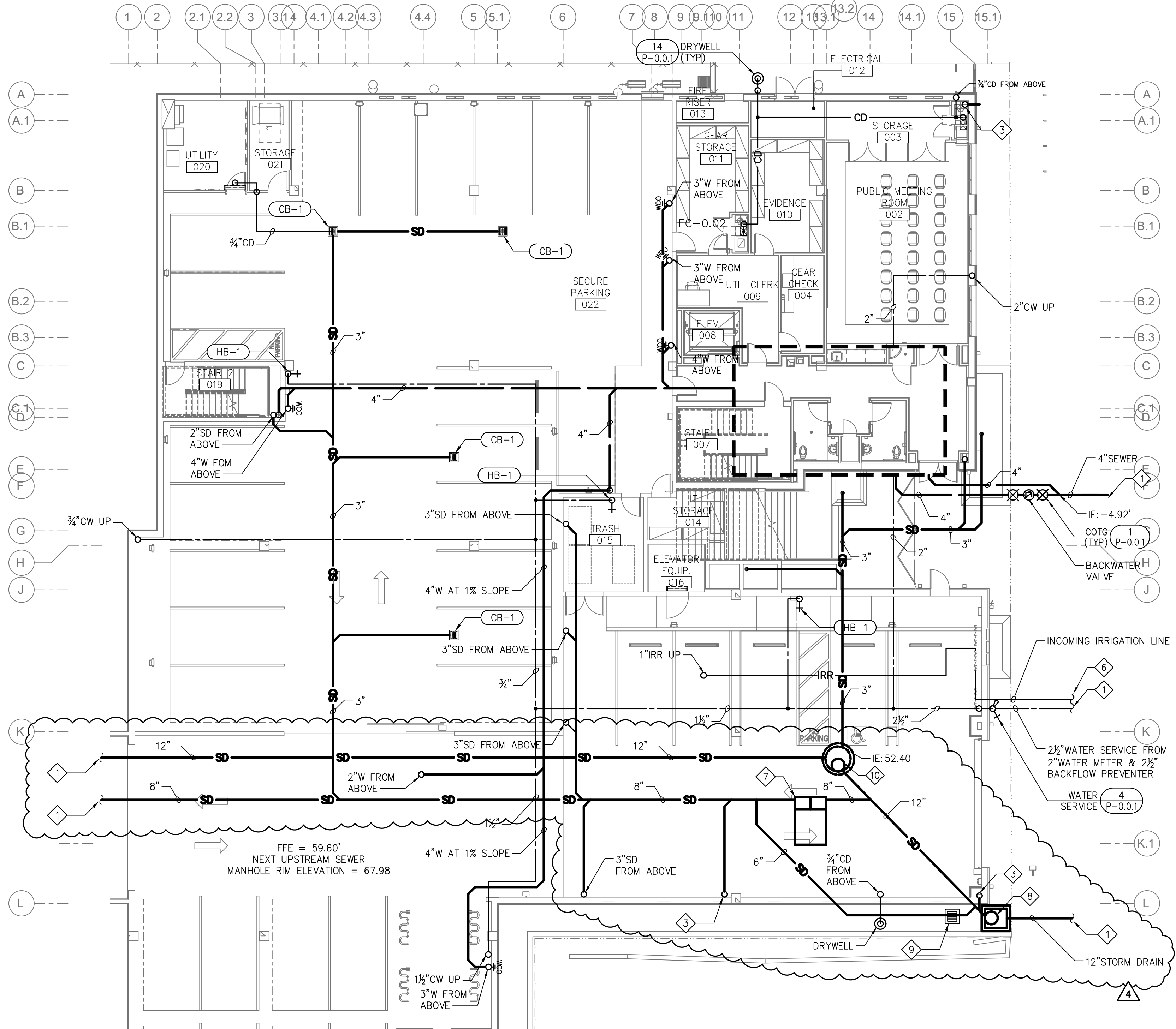
PARTIAL EXTERIOR ELEVATIONS

Date 895.01
3/29/201
Author
Checked by
Checker

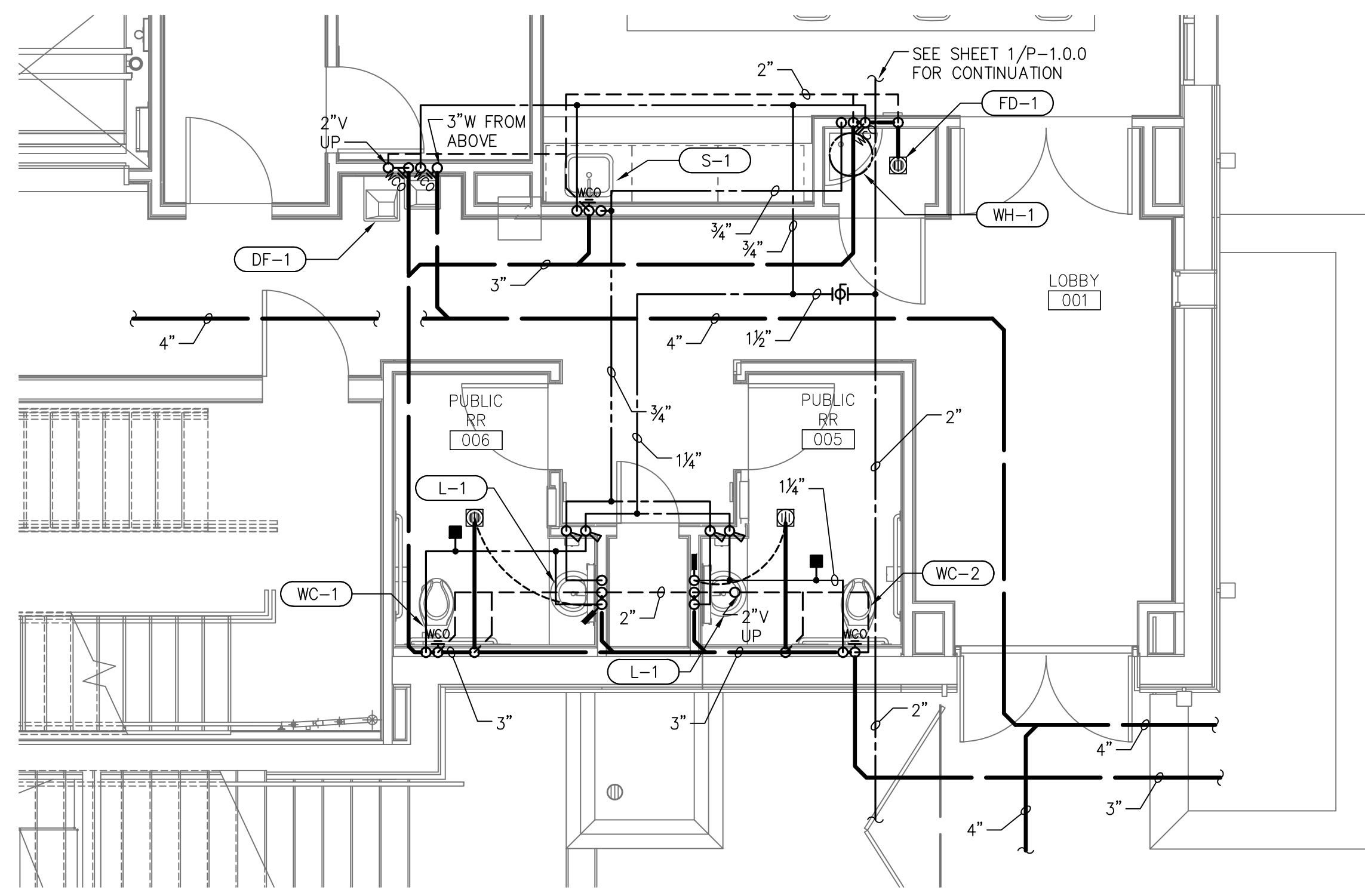
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1 PLUMBING OVERALL GROUND FLOOR PLAN
SCALE: 3/32" = 1'-0"



2 PLUMBING ENLARGED GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. See plumbing fixture schedule for pipe branch size to individual fixtures.

REFERENCE NOTES

- 1 For continuation see civil utility plan.
- 2 3"RWL & 3"RWO from above.
- 3 3"RWL from above.
- 4 4"RWL from above.
- 5 2"SD from above.
- 6 Refer to landscape architect irrigation.
- 7 BIOPOD biofilter unit per civil Utility Plan East sheet C-007.
- 8 POUR-IN-PLACE concrete drainage structure per civil Utility Plan East sheet C-007.
- 9 Precast 18" square grated drop inlet catch basin with traffic rated grate per civil Utility Plan East sheet C-007.
- 10 Concrete eccentric 48" standard pre-cast manhole per civil Utility Plan East sheet C-007.

RNT ARCHITECTS
285 NORTH VENTURA AVE.
SUITE 102
VENTURA, CA 93003
P805.626.5330
www.RNTarchitects.com

BMA Mechanical +
689 Tank Farm Rd., Ste 240
SLO, CA 93401
OFF: (805) 544-4269
BMA JOB# 22147.00

MECHANICAL ENGINEER
STATE OF CALIFORNIA
M 31,682
EXP. 8/30/25



SANTA BARBARA NEW PROBATION BLDG
1001 Garden St
Santa Barbara, CA 93101

100% CONSTRUCTION DOCUMENTS

No.	Description	Date
1	PCC#1	09/25/2023
2	PCC#2	01/22/2024
4	ADDENDUM #2	04/27/2024

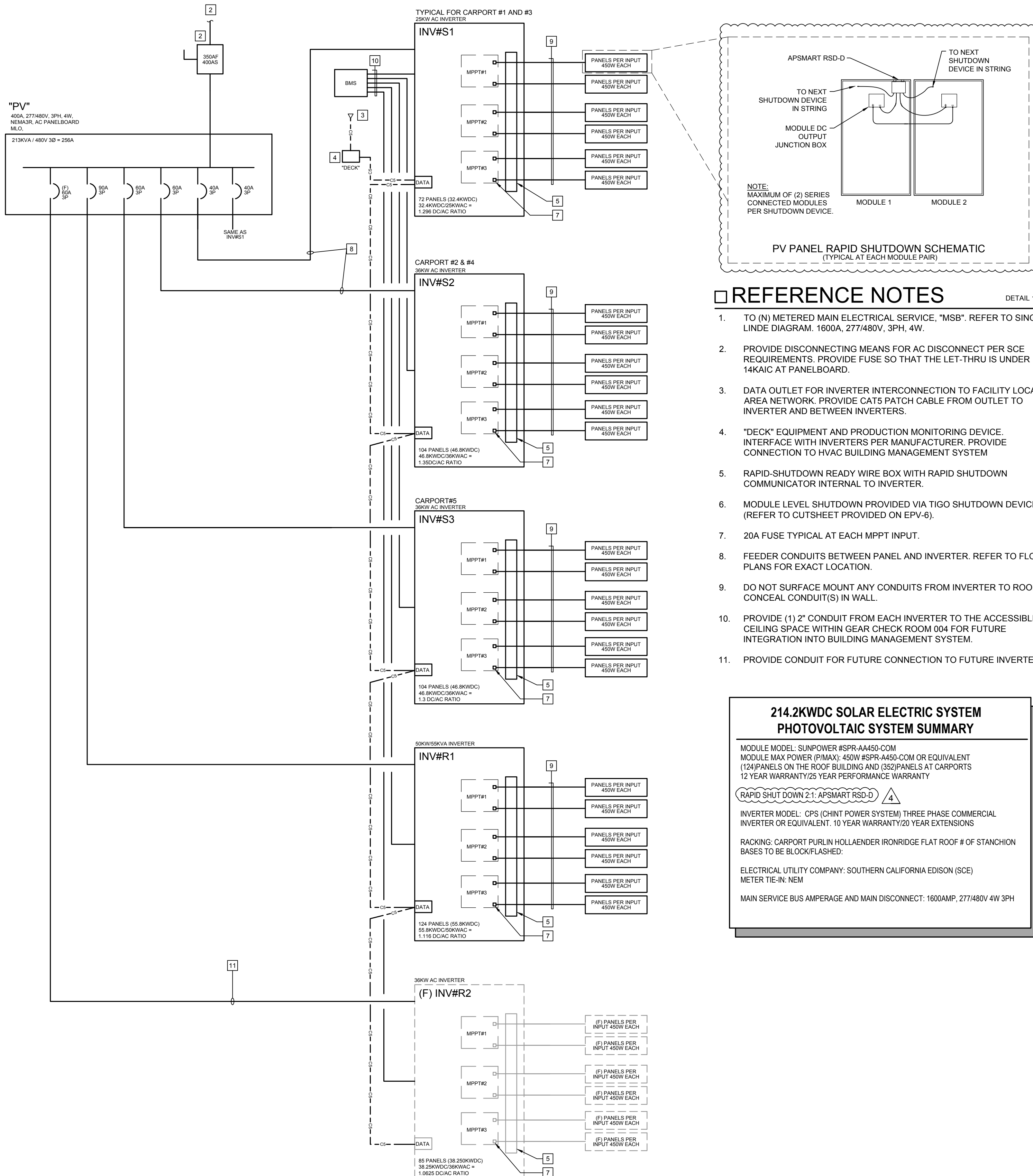
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PLUMBING GROUND FLOOR PLAN

Date	895.01
Drawn by	JM
Checked by	RS
Sheet Number	P-1.0.0
Sheet of	Sheets

SOLAR PHOTOVOLTAIC SYSTEM PERFORMANCE SPECIFICATIONS

DEFERRED SUBMITTAL

- PV PANEL SIZE, LAYOUT AND QUANTITIES SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND PROVIDE COMPLETE MODULE PANEL, CONDUITS, CABLING COMBINER, INVERTER AND ASSOCIATED SUPPORT SYSTEM FOR A COMPLETE TURNKEY PV SYSTEM COMPLYING WITH DESIGN REQUIREMENTS.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2022 CBC, 2022 CFC AND 2022 CEC WITH SPECIAL EMPHASIS ON ARTICLE 690. MOREOVER, COMPLIANCE WITH DSA INTERPRETATION OF REGULATIONS DOCUMENT IR 16-8 SHALL BE REQUIRED.
- ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED AND IDENTIFIED UL 1703.
- ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A RECOGNIZED ELECTRICAL TESTING LABORATORY.
- ALL DC MATERIALS (FUSES, EQUIPMENT, CONNECTORS, WIRES, ETC.) TO BE UL LISTED FOR 600VDC OR 1000VDC WHERE APPLICABLE.
- MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ALL COMPONENTS OF THE SOLAR PV SYSTEM SHALL BE KEPT ON THE PROJECT SITE AND MADE AVAILABLE UPON REQUEST OF THE INSPECTOR.
- CONTRACTOR SHALL NEVER LEAVE A MODULE UNSUPPORTED OR UNSECURED. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIAL HANDLING ON THE JOBSITE. MODULES SHALL BE SECURED WITH A MINIMUM (4) POINTS OF CONTACT.
- SOLAR SYSTEM SHALL NOT COVER ANY PLUMBING OR MECHANICAL VENTS.
- PHOTOVOLTAIC MODULES SHALL MAINTAIN 4 FEET CLEAR FROM ALL ROOF EDGES, PER CSFM INSTALLATION GUIDELINES AND CFC REQUIREMENTS.
- ALL PV MODULES AND ASSOCIATED EQUIPMENT AND WIRING SHALL BE PROTECTED FROM ANY PHYSICAL DAMAGE.
- ALL HARDWARE ON THE ROOF SHALL BE STAINLESS STEEL, IN COMBINATION WITH ALUMINUM FITTINGS AND RAILINGS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL SUPPLY AND INSTALL FASTENING HARDWARE STRUCTURAL DESIGN CRITERIA FOUND IN THE STRUCTURAL DRAWINGS AND PV MOUNTING SYSTEM MANUFACTURER'S RECOMMENDATIONS.
- SEPARATION DISTANCE FROM ROOF TO BOTTOM OF PV PANELS SHALL BE A MINIMUM OF 4".
- ALL SHARP EDGES AND FASTENER TIPS SHALL BE COVERED OR CRIMPED OVER AS TO NOT PROVIDE A SHARP EDGE WHERE EMERGENCY RESPONDERS OR ANY OTHER INDIVIDUAL ACCESSING THE ROOFTOP MAY BE INJURED.
- LIVE PARTS OF PV SOURCE CIRCUITS AND PV OUTPUT CIRCUITS OVER 150V TO GROUND SHALL NOT BE ACCESSIBLE TO OTHER THAN QUALIFIED PERSONS WHILE ENERGIZED.
- INVERTER SHALL BE EQUIPPED W/ INTEGRATED GFDI, THUS PROVIDING GROUND FAULT PROTECTION.
- RACKING SYSTEM SHALL BE LISTED TO UL 1703.
- MODULES AND SUPPORT STRUCTURES SHALL BE GROUNDED. ALL METALLIC COMPONENTS OF THE SOLAR PHOTOVOLTAIC SYSTEM (AC AND DC SYSTEMS INCLUDED) SHALL BE GROUNDED AND BONDED PER CEC ARTICLES 250 AND 690. PV MODULES SHALL BE GROUNDED TO MOUNTING RAILS USING MODULE LUGS OR RACKING INTEGRATED GROUNDING CLAMPS. ALL OTHER EXPOSED METAL PARTS SHALL BE GROUNDED USING UL LISTED LAY-IN LUGS. PROVIDE BONDING STRAPS BETWEEN INDIVIDUAL RAILS JOINING TO FORM A MULTI-PIECE RAILING SYSTEM. EACH RAILING SYSTEM SHALL BE BONDED TO THE GROUNDING SYSTEM WITH A MINIMUM #8 COPPER CONDUCTOR.
- GROUNDING LUGS SHALL BE SPECIFIED AND LOCATED ACCORDING TO THE PHOTOVOLTAIC PANEL MANUFACTURER'S REQUIREMENTS.
- PER CEC 250.92, NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT SHALL BE EFFECTIVELY BONDED TOGETHER. BOND BOTH ENDS OF RACEWAYS.
- COPPER BONDING CONDUCTORS SHALL BE KEPT CLEAR OF CONTACT FROM RACKING SYSTEM AND ALL OTHER ALUMINUM MATERIALS TO AVOID CATHODIC CORROSION.
- CONDUIT RACEWAYS SHALL BE PROVIDED WITH EXPANSION FITTINGS TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION. CEC 300.7(b), 352.44
- EQUIPMENT GROUNDING CONDUCTOR REQUIRED IN RACEWAYS SHALL BE SIZED PER CEC 250.166.
- ALL CONDUCTORS SHALL BE COPPER AND 90 DEG RATED. ALL WIRING IN CONDUIT SHALL BE THHN/THWN-2. ALL EXPOSED OR HOMERUN WIRING SHALL BE PV WIRE/USE-2/RHW-2. BARE COPPER SHALL BE PERMITTED FOR GROUND WHERE USED WITHIN THE ARRAY FOOTPRINT.
- ALL EXPOSED CABLES, SUCH AS MODULE LEADS, SHALL BE SECURED WITH UV RATED PLASTIC OR OTHER APPROVED SUNLIGHT RESISTANT MEANS WITH A 25 YEAR LIFE.
- ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH BUILDING SURFACE. ANY EXPOSED CONDUIT SHALL BE APPROVED BY OWNER IN ADVANCE OF INSTALLATION.
- ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE UL LISTED RAIN TIGHT AND SHALL BE APPROVED FOR WET LOCATIONS PER CEC 314.15.
- ROOFTOP PENETRATIONS SHALL BE COMPLETED AND SEALED PER CODE BY A LICENSED CONTRACTOR AND IN ACCORDANCE WITH THE ROOFING MANUFACTURER'S REQUIREMENTS TO MAINTAIN THE ROOF WARRANTY AND ROOF FIRE RATING (AS APPLICABLE).
- ROOF ATTACHMENTS AND STAND-OFFS SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS, AND ATTACHED TO THE ROOF STRUCTURE PER STRUCTURAL REQUIREMENTS AND AS OTHERWISE DESCRIBED IN THESE CONSTRUCTION DOCUMENTS. COPIES OF MANUFACTURER'S MOUNTING DETAILS AND INSTRUCTIONS SHALL BE PRESENTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO INSTALLATION.
- ROOF ATTACHMENTS SHALL BE MADE WITH APPROVED SEALANT. COORDINATE WITH ARCHITECT FOR ROOF PENETRATION SEALING REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SIGNAGE TO ALL ELECTRIC BOXES, JUNCTION BOXES, PULL BOXES, DC DISCONNECTS, CONDUITS RUNS, AC DISCONNECTS, SUB PANELS, INVERTERS, AND MAIN SERVICES PER CEC ARTICLE 690.
- SIGNS OR DIRECTORIES SHALL BE ATTACHED TO THE ELECTRICAL EQUIPMENT OR LOCATED ADJACENT TO THE IDENTIFIED EQUIPMENT. ANY EXISTING SIGNAGE ASSOCIATED WITH PREVIOUS SOLAR SYSTEM INSTALLATIONS SHALL BE DEMOLISHED.
- SIGNS SHALL BE OF A SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT.
- ANY PLAQUES WILL BE METAL OR PLASTIC WITH ENGRAVED OR MACHINE PRINTED LETTERS, OR ELECTRO-PLATING, IN A RED BACKGROUND WITH WHITE LETTERING, A MINIMUM OF 3/8" HEIGHT.
- PHOTOVOLTAIC SYSTEM SHALL BE MONITORED VIA APPROVED WEB-BASED PERFORMANCE MONITORING SYSTEM, PER 2009 CRITERIA, SECTION EE2.1. MONITORING SYSTEM INTEGRAL WITH INVERTER SHALL BE ACCEPTED, INCLUDE ALL NECESSARY HARDWARE, SOFTWARE AND LICENSING (MINIMUM 1 YEAR), CABLING AND CONNECTIONS FOR A COMPLETE AND OPERATIONAL WEB-BASED PERFORMANCE MONITORING SYSTEM. INTERFACE WITH DISTRICT'S ETHERNET SYSTEM. PROVIDE 1 DAY OF TRAINING AND MANUFACTURER'S SUBSCRIPTION INFORMATION TO THE DISTRICT.
- CONTRACTOR SHALL SUBMIT SCE NET ENERGY METERING (NEM2) INTERCONNECTION APPLICATION AND PAPER WORK. MOREOVER, CONTRACTOR SHALL NOTIFY AND OBTAIN APPROVAL FROM LOCAL UTILITY PRIOR TO USE AND ACTIVATION OF ANY SOLAR PV INSTALLATION. CONTRACTOR SHALL COORDINATE ALL INSPECTIONS, TESTING COMMISSIONING, AND ACCEPTANCE WITH THE OWNER, UTILITY COMPANY, AND INSPECTOR OF RECORD AS NEEDED.
- START UP, COMMISSIONING AND TRAINING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR START UP AND COMMISSIONING OF THE SOLAR PHOTOVOLTAIC SYSTEM, AS REQUIRED TO SATISFY THE SYSTEM COMPONENTS SHOWN ON THESE CONSTRUCTION DOCUMENTS, AND TO SATISFY DSA AUTHORITIES AND INSPECTOR(S). REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS RELATED TO COMMISSIONING. PROVIDE TRAINING FOR THE SYSTEM'S OPERATION, MAINTENANCE, AND PROGRAMMING, SPECIFIC TO THE INSTALLED EQUIPMENT AND SYSTEMS.



REFERENCE NOTES

- TO (N) METERED MAIN ELECTRICAL SERVICE, "MSB". REFER TO SINGLE LINE DIAGRAM. 1600A, 277/480V, 3PH, 4W.
- PROVIDE DISCONNECTING MEANS FOR AC DISCONNECT PER SCE REQUIREMENTS. PROVIDE FUSE SO THAT THE LET-THRU IS UNDER 14KAIC AT PANELBOARD.
- DATA OUTLET FOR INVERTER INTERCONNECTION TO FACILITY LOCAL AREA NETWORK. PROVIDE CAT5 PATCH CABLE FROM OUTLET TO INVERTER AND BETWEEN INVERTERS.
- "DECK" EQUIPMENT AND PRODUCTION MONITORING DEVICE. INTERFACE WITH INVERTERS PER MANUFACTURER. PROVIDE CONNECTION TO HVAC BUILDING MANAGEMENT SYSTEM
- RAPID-SHUTDOWN READY WIRE BOX WITH RAPID SHUTDOWN COMMUNICATOR INTERNAL TO INVERTER.
- MODULE LEVEL SHUTDOWN PROVIDED VIA TIGO SHUTDOWN DEVICE (REFER TO CUTSHEET PROVIDED ON EPV-6).
- 20A FUSE TYPICAL AT EACH MPPT INPUT.
- FEEDER CONDUITS BETWEEN PANEL AND INVERTER. REFER TO FLOOR PLANS FOR EXACT LOCATION.
- DO NOT SURFACE MOUNT ANY CONDUITS FROM INVERTER TO ROOF. CONCEAL CONDUIT(S) IN WALL.
- PROVIDE (1) 2" CONDUIT FROM EACH INVERTER TO THE ACCESSIBLE CEILING SPACE WITHIN GEAR CHECK ROOM 004 FOR FUTURE INTEGRATION INTO BUILDING MANAGEMENT SYSTEM.
- PROVIDE CONDUIT FOR FUTURE CONNECTION TO FUTURE INVERTER.

21.2KWDC SOLAR ELECTRIC SYSTEM PHOTOVOLTAIC SYSTEM SUMMARY

MODULE MODEL: SUNPOWER #SPR-AA450-COM
 MODULE MAX POWER (P_{MAX}): 450W #SPR-AA450-COM OR EQUIVALENT
 (124)PANELS ON THE ROOF BUILDING AND (352)PANELS AT CARPORTS
 12 YEAR WARRANTY/25 YEAR PERFORMANCE WARRANTY

RAPID SHUT DOWN 2:1: APSMART RSD-D

INVERTER MODEL: CPS (CHINT POWER SYSTEM) THREE PHASE COMMERCIAL INVERTER OR EQUIVALENT. 10 YEAR WARRANTY/20 YEAR EXTENSIONS

RACKING: CARPORT PURLIN HOLLAEENDER IRONRIDGE FLAT ROOF # OF STANCHION BASES TO BE BLOCK/FLASHED:

ELECTRICAL UTILITY COMPANY: SOUTHERN CALIFORNIA EDISON (SCE)
 METER TIE-IN: NEM

MAIN SERVICE BUS AMPERAGE AND MAIN DISCONNECT: 1600AMP, 277/480V 4W 3PH

SOLAR SYSTEM SINGLE LINE DIAGRAM

RNT ARCHITECTS
 285 NORTH VENTURA AVE.
 SUITE 102
 VENTURA, CA 93003
 P805.626.5330
 www.RNTarchitects.com

Thoma ENGINEERING
 THOMA ELECTRIC, INC.
 P.O. Box 1167 - 3562 Empleo St.
 San Luis Obispo, CA 93406
 Phone: (805) 543-3850
 Fax: (805) 543-3829
 cae@thomaelec.com

REGISTERED PROFESSIONAL ENGINEER
 I AM A THOMA
 ELECTRICIAN
 STATE OF CALIFORNIA
 EXP: 06/30/25
 THOMA #22-8052

COUNTY OF SANTA BARBARA
 COUNTY OF SANTA BARBARA CALIFORNIA

SANTA BARBARA PROBATION HEADQUARTERS
 1019 GARDEN STREET
 SANTA BARBARA, CA 93101

100% CONSTRUCTION DOCUMENTS

No.	Description	Date
1	PC1	12/15/2023
4	Bid RFI	04/27/2024

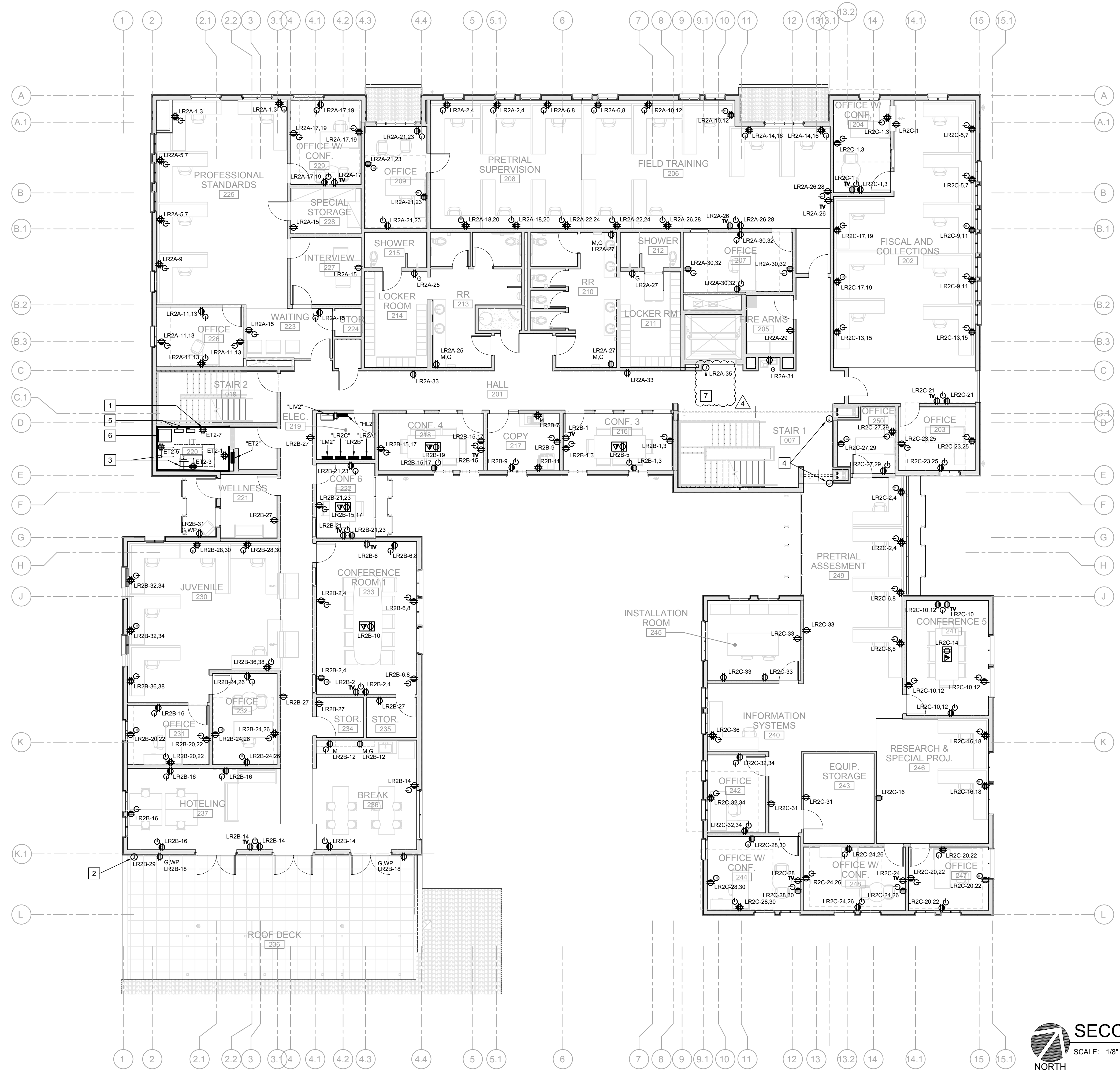
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SOLAR SYSTEM SINGLE LINE DIAGRAM

Date	895.01
04/28/2023	
Drawn by	TR
Checked by	CJ
Sheet Number	E-0.5
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- ### REFERENCE NOTES
1. CONNECTION TO FLOOR MOUNTED DATA RACK.
 2. PROVIDE 20A, 120V DEDICATED CIRCUIT FOR CONNECTION TO IRRIGATION CONTROLLER. VERIFY EXACT LOCATION WITH LANDSCAPE PLANS PRIOR TO ROUGH-IN.
 3. PROVIDE FIRE RATED BACKBOARD AT WALLS SHOWN WITH GROUND BAR.
 4. PROVIDE 120V AND FIRE ALARM CONNECTION TO FIRE CURTAIN "WON DOORS".
 5. PROVIDE DEDICATED CIRCUIT FOR ACCESS CONTROL PANEL.
 6. PROVIDE DEDICATED CIRCUIT FOR SECURITY RACK.
 7. PROVIDE 120V AND FIRE ALARM CONNECTION TO ELEVATOR DOOR SMOKE CURTAIN.

RNT ARCHITECTS
 285 NORTH VENTURA AVE.
 SUITE 102
 VENTURA, CA 93003
 P805.626.5330
 www.RNTarchitects.com

Thomas ENGINEERING
 THOMA ELECTRIC, INC.
 P.O. Box 1167 - 3562 Empleo St.
 San Luis Obispo, CA 93406
 Phone: (805) 543-3850
 Fax: (805) 543-3829
 cad@thomaelec.com

REGISTERED PROFESSIONAL ENGINEER
 WILLIAM A. THOMAS
 No. 10571
 ELECTRICAL
 STATE OF CALIFORNIA
 EXP: 06/30/25 THOMA #22-8052

COUNTY OF SANTA BARBARA

SANTA BARBARA PROBATION HEADQUARTERS
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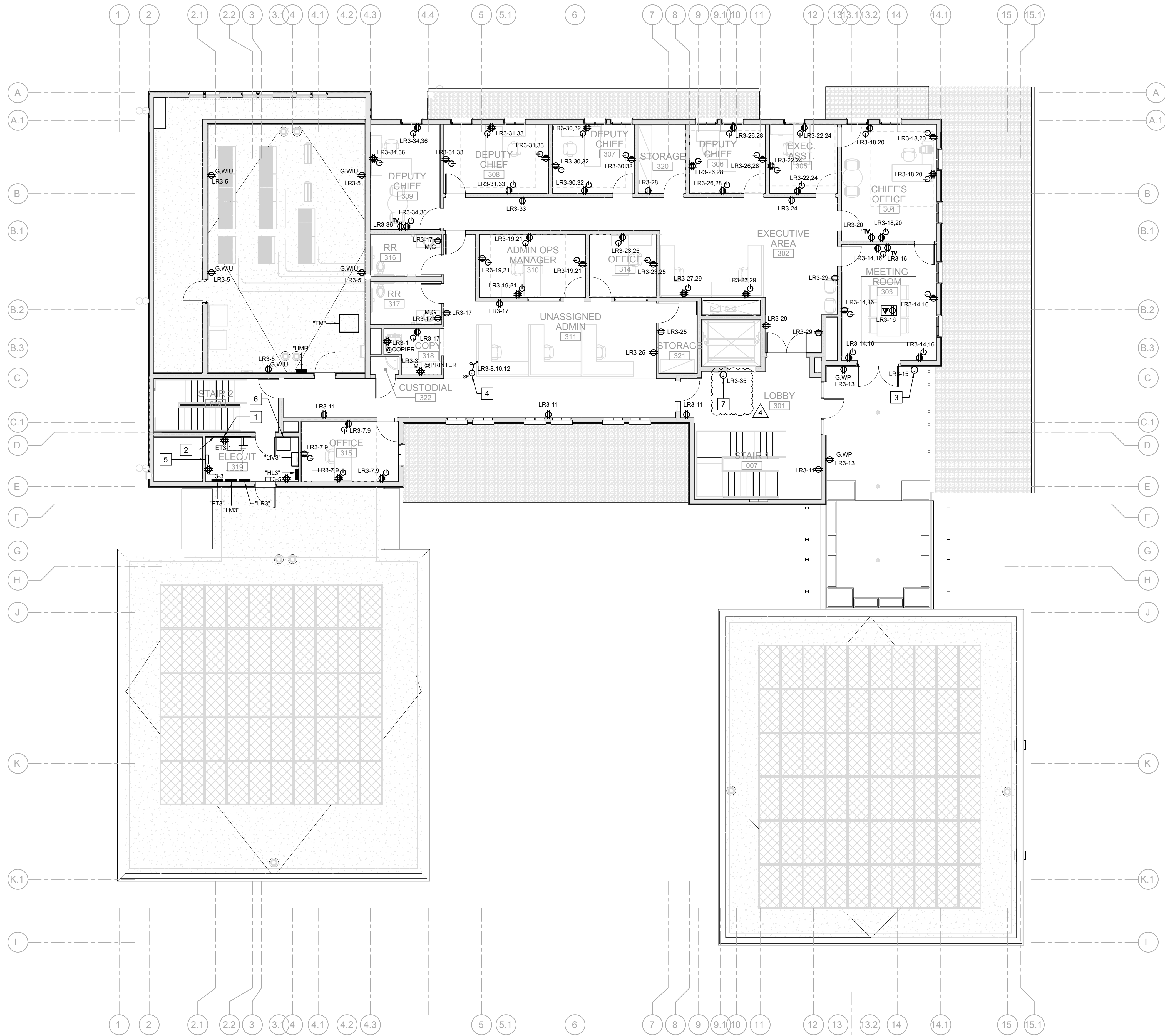
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SECOND FLOOR POWER PLAN

Date 895.01
 04/28/2023
 Drawn by TR
 Checked by CJ
 Sheet Number
E-1.2.2
 Sheet of Sheets

SECOND FLOOR POWER PLAN
 SCALE: 1/8" = 1'-0"

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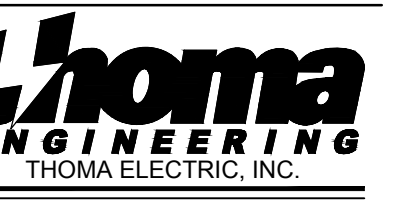


REFERENCE NOTES

1. CONNECTION TO FLOOR MOUNTED DATA RACK.
2. PROVIDE FIRE RATED BACKBOARD AT WALLS SHOWN WITH GROUND BAR.
3. PROVIDE 20A, 120V DEDICATED CIRCUIT FOR CONNECTION IRRIGATION CONTROL. VERIFY EXACT LOCATION WITH LANDSCAPE PLANS PRIOR TO ROUGH-IN.
4. PROVIDE FLOOR BOX FOR CONNECTION TO ELECTRIFIED SYSTEM FURNITURE. COORDINATE EXACT LOCATION AT THE FLOOR WITH FURNITURE PRIOR TO ROUGH-IN.
5. PROVIDE DEDICATED CIRCUIT FOR ACCESS CONTROL PANEL.
6. PROVIDE DEDICATED CIRCUIT FOR SECURITY RACK.
7. PROVIDE 120V AND FIRE ALARM CONNECTION TO ELEVATOR DOOR SMOKE CURTAIN.



285 NORTH VENTURA AVE.
SUITE 102
VENTURA, CA 93003
P805.626.5330
www.RNTarchitects.com



P.O. Box 1167 - 3562 Empleo St.
San Luis Obispo, CA 93406
Phone: (805) 543-3850
Fax: (805) 543-3829
ca@thomaelec.com



EXP: 06/30/25 THOMA #22-8052

COUNTY OF SANTA BARBARA



SANTA BARBARA PROBATION HEADQUARTERS
1019 GARDEN STREET
SANTA BARBARA, CA 93101

100% CONSTRUCTION DOCUMENTS

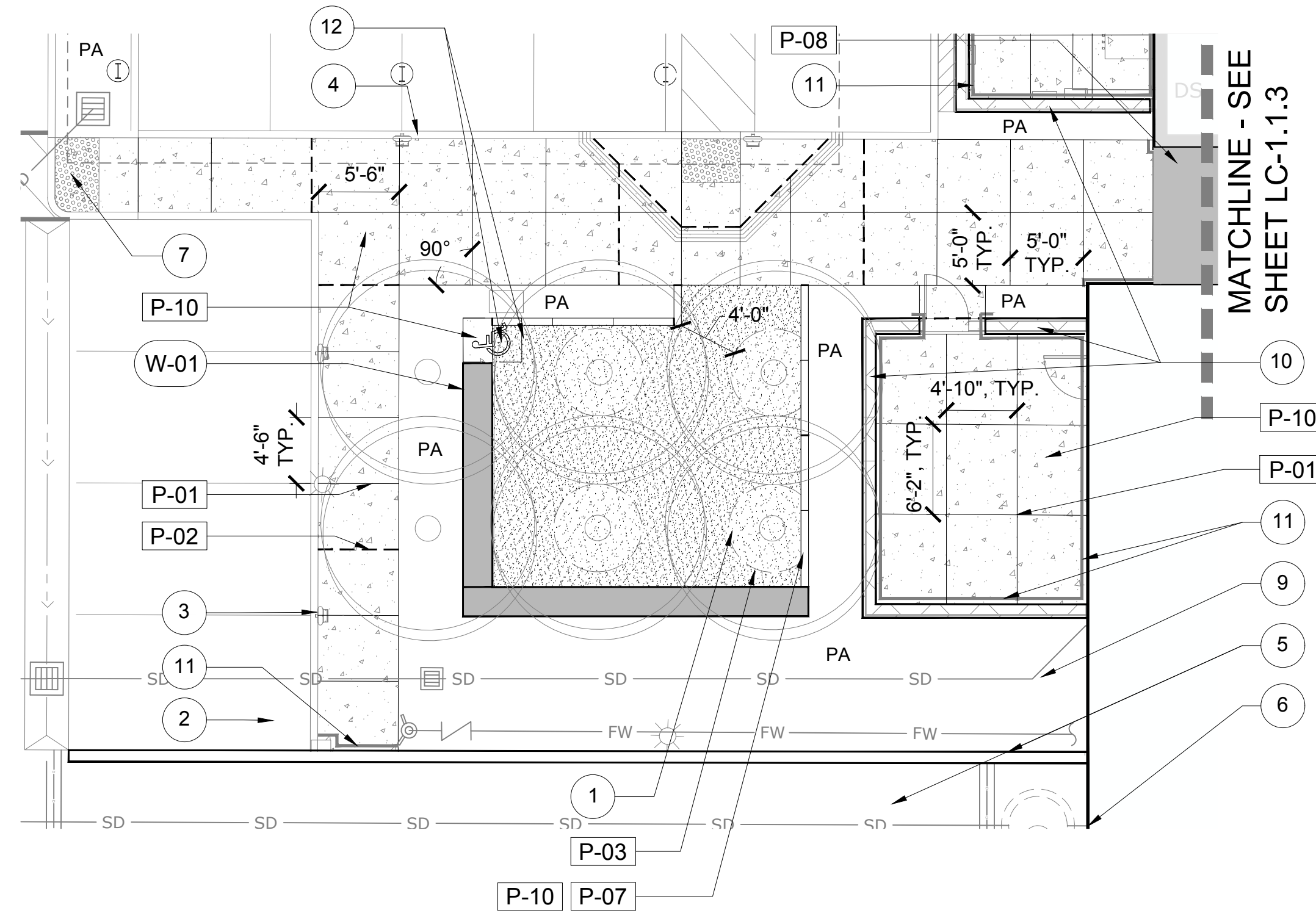
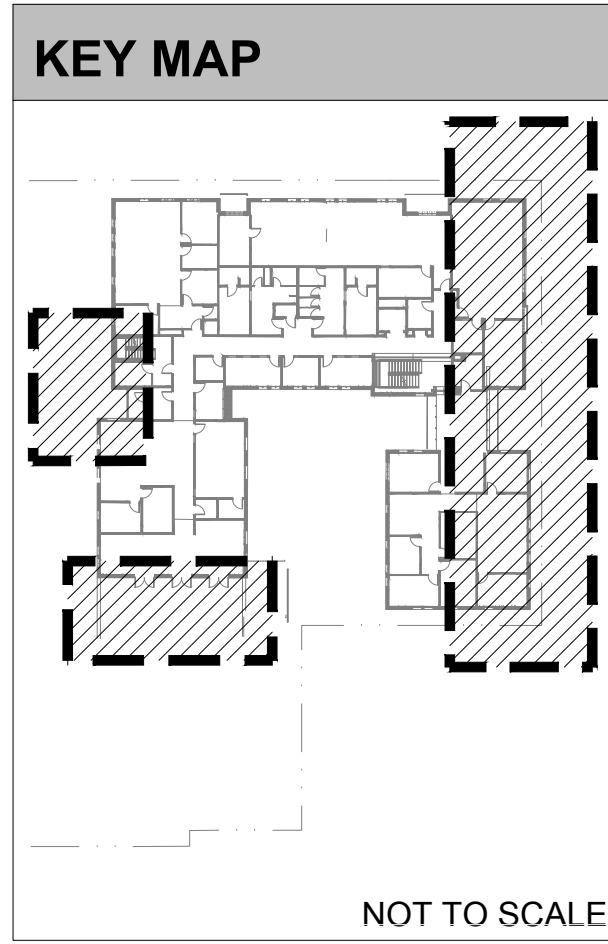
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1	PC1	12/15/2023
4	Bid RFI	04/27/2024

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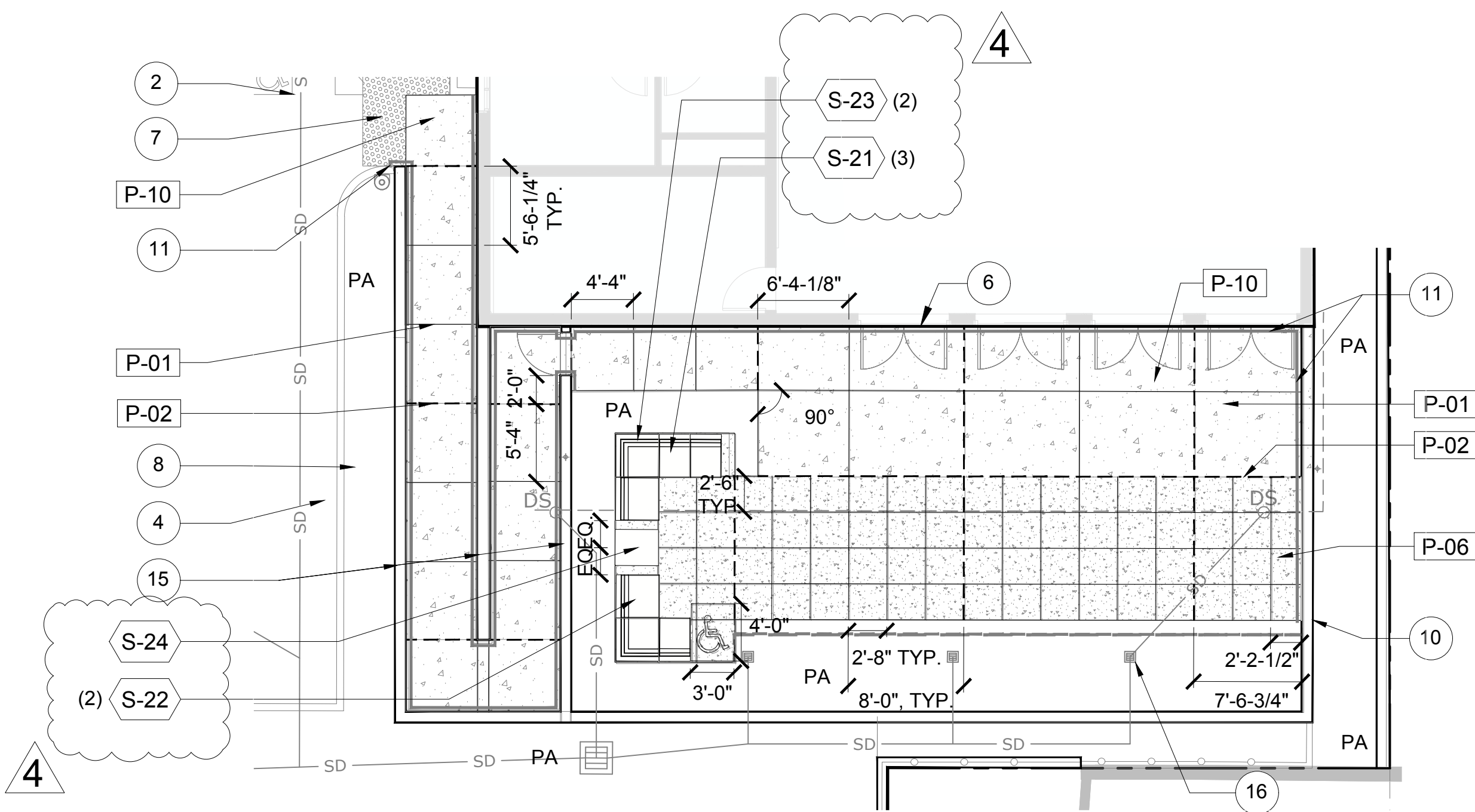
THIRD FLOOR POWER PLAN

Date	895.01
Drawn by	04/28/2023
Checked by	TR
Sheet Number	CJ
E-1.3.2	
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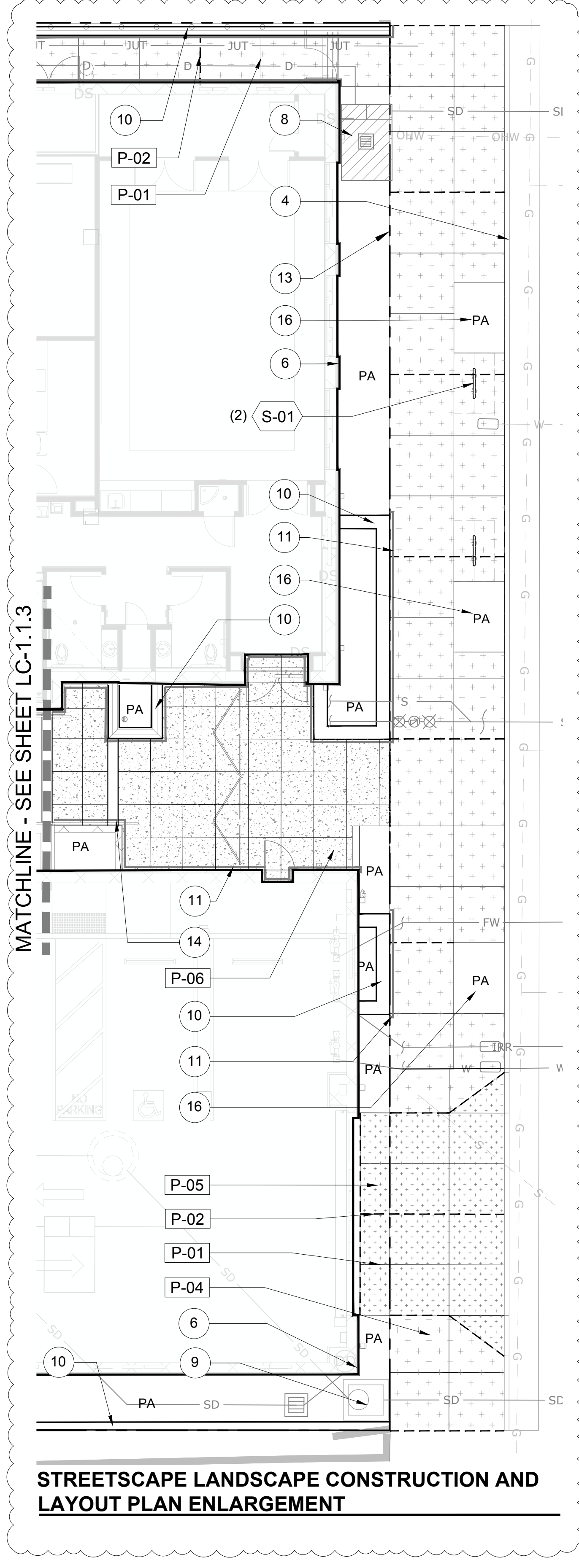
THIRD FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"
NORTH



PARKING LOT COURTYARD LANDSCAPE CONSTRUCTION AND LAYOUT PLAN ENLARGEMENT



SOUTH COURTYARD LANDSCAPE CONSTRUCTION AND LAYOUT PLAN ENLARGEMENT



STREETSCAPE LANDSCAPE CONSTRUCTION AND LAYOUT PLAN ENLARGEMENT

LANDSCAPE CONSTRUCTION LEGEND

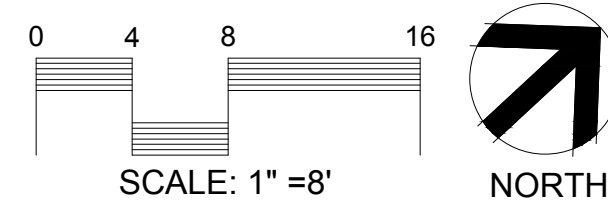
KEY	SYMBOL	DESCRIPTION	DETAIL
P-01		SAW CUT JOINT, TYP.	A / LC-3.0
P-02		EXPANSION JOINT, TYP.	A / LC-3.0
P-03		DECOMPOSED GRANITE (STABILIZED UNLESS NOTED OTHERWISE)	B / LC-3.0
P-04		TYPE 1 CONCRETE (PEDESTRIAN THICKNESS)	SEE CIVIL DRAWINGS
P-05		TYPE 1 CONCRETE (VEHICULAR THICKNESS)	SEE CIVIL DRAWINGS
P-06		TYPE 2 CONCRETE (PEDESTRIAN THICKNESS)	SEE CIVIL DRAWINGS
P-07		CONCRETE HEADER	B / LC-3.0
P-08		TYPE 1 PAVER (COLOR A)	A / LC-3.1
P-10		TYPE 3 CONCRETE (PEDESTRIAN THICKNESS)	SEE CIVIL DRAWINGS
S-01		BIKE RACK	D / LC-3.0
S-21		TYPE 1 FURN. MODULE	-
S-22		TYPE 2 FURN. MODULE	-
S-23		TYPE 3 FURN. MODULE	-
S-24		TYPE 4 FURN. MODULE	-
W-01		DECORATIVE CONCRETE WALL	A / LC-3.3
PA		PLANTING AREA, TYP.	-

KEY NOTES

- DO NOT STABILIZE DECOMPOSED GRANITE WITHIN 6' DIA. DASHED CIRCLE, TYP. (NO EDGER REQUIRED). NON STABILIZED D.G. SHALL BE CENTERED AROUND TREES, SEE LANDSCAPE PLANTING PLANS FOR TREE LOCATIONS. CONTRACTOR SHALL ENSURE 4'-0" MIN. WIDTH OF STABILIZED DG PATHWAY FOR ACCESSIBLE PATH. REFER TO PLAN.
- PARKING LOT, SEE CIVIL DRAWINGS
- EV PEDESTAL OR FUTURE EV PEDESTAL, TYP. SEE ELECTRICAL DRAWINGS
- CURB, SEE CIVIL DRAWINGS
- PARKING STRUCTURE RAMP AND WALLS, SEE CIVIL AND ARCHITECTURAL DRAWINGS
- BUILDING, SEE ARCHITECTURAL DRAWINGS
- ACCESSIBLE RAMP, SEE CIVIL DRAWINGS
- STORMWATER BMP, BIOPOD BIOFILTRATION UNIT, SEE CIVIL DRAWINGS
- STORM DRAIN, SEE CIVIL DRAWINGS
- WALL, SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS
- EXPANSION JOINT (NO REBAR) BETWEEN PAVING AND BUILDING, BETWEEN PAVING AND WALLS, TYP. INSTALL DIRECTLY ABUTTING BUILDING/WALL (SHOWN OFFSET FROM BUILDING/WALL FOR CLARITY ONLY)
- WHEELCHAIR SPACE ADJACENT TO SEATING
- RIGHT-OF-WAY
- STAIR WITH HANDRAIL, SEE ARCHITECTURAL DRAWINGS
- WALL WITH HANDRAIL, SEE ARCHITECTURAL DRAWINGS
- TREE WELL. INSTALL BARK MULCH PER DETAILS AND SPECIFICATIONS.

SHEET NOTES

- REFER TO SHEETS LC-1.1.1, LC-1.1.2, LC-1.1.3, LC-1.2.1 FOR LANDSCAPE CONSTRUCTION PLANS, ENLARGEMENT PLANS, AND LAYOUT PLANS.
- REFER TO SHEET LC-2.0 FOR GENERAL CONSTRUCTION NOTES AND SHEETS LC-2.1, LC-2.2 FOR LANDSCAPE CONSTRUCTION LEGEND.
- REFER TO SHEETS LC-3.0 THROUGH LC-3.4 FOR LANDSCAPE CONSTRUCTION DETAILS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING PLANS.



Roesling Nakamura Terada Architects
363 Fifth Avenue, Ste. 202
San Diego, California
P619.233.1023
F619.233.0016
www.RNTarchitects.com

ktua
3916 Normal Street
San Diego, CA 92103
619.294.4477 | www.ktua.com



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SANTA BARBARA PROBATION

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No.	Description	Date
1	PC1	12/15/2023
2	PC2	1/26/2024
4	PIP-PC1	4/22/2024

Sheet Name

AT GRADE LANDSCAPE CONSTRUCTION AND LAYOUT PLAN ENLARGEMENTS

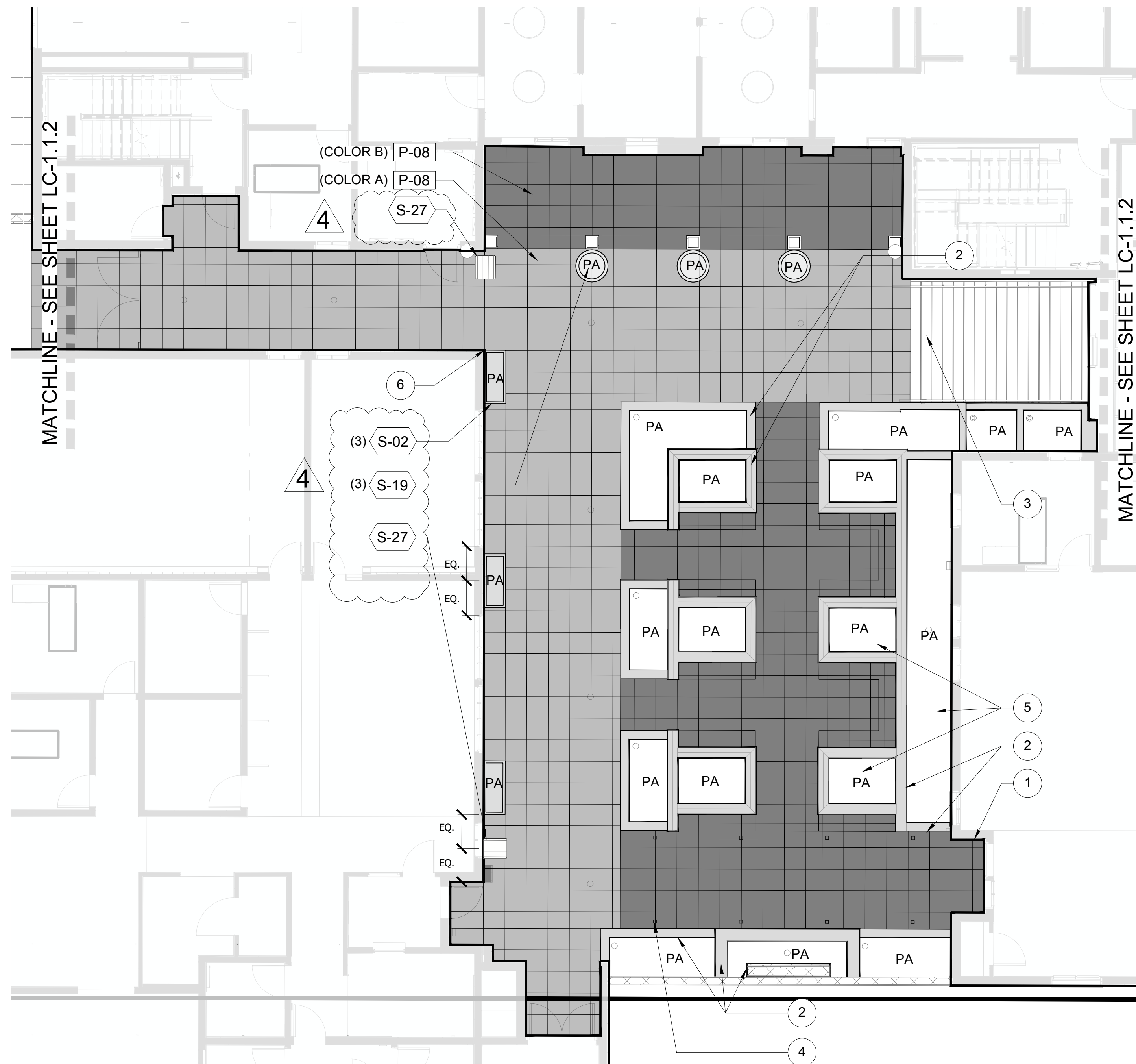
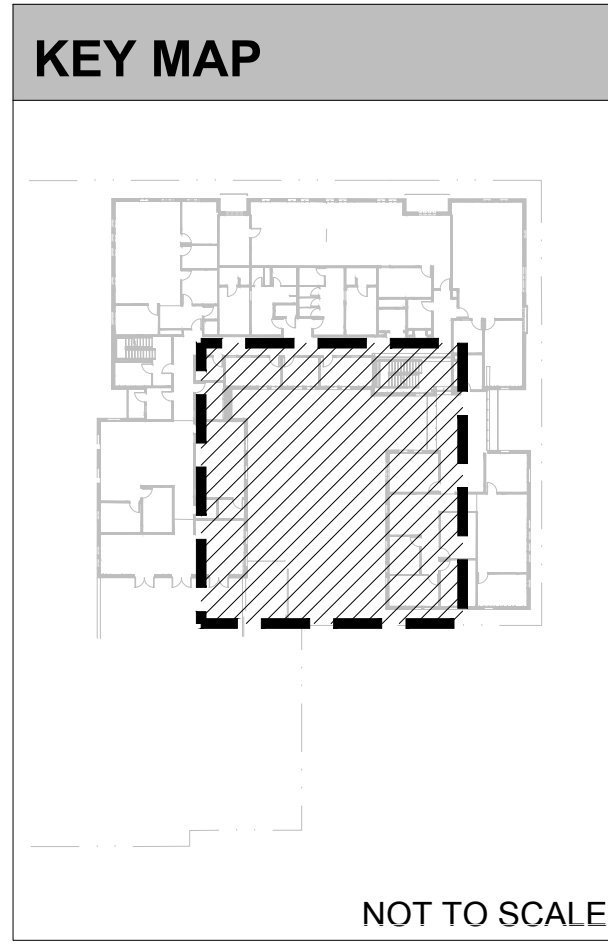
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Date 4/22/2024

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Checked by: JH

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LC-1.1.2
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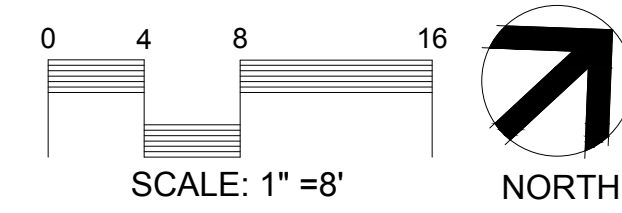


MAIN LEVEL COURTYARD LANDSCAPE CONSTRUCTION AND LAYOUT PLAN ENLARGEMENT

LANDSCAPE CONSTRUCTION LEGEND			
KEY	SYMBOL	DESCRIPTION	DETAIL
P-08	[Grid Pattern]	TYPE 1 PAVER (COLOR A)	A / LC-3.1
P-08	[Grid Pattern]	TYPE 1 PAVER (COLOR B)	A / LC-3.1
S-02	[Rectangular Box]	PLANTER WCR-602436	A / LC-3.2
S-19	[Circle]	PLANTER ROUND	A / LC-3.2
S-27	[Square]	TRASH AND RECYCLING RECEPTACLE	-
PA	-	PLANTING AREA, TYP.	-

KEY NOTES	
1	BUILDING, SEE ARCHITECTURAL DRAWINGS
2	WALL, SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS
3	STAIR WITH HANDRAIL, SEE ARCHITECTURAL DRAWINGS
4	SHADE STRUCTURE/TRELLIS POST, SEE ARCHITECTURAL DRAWINGS
5	SEE PLUMBING DRAWINGS FOR PLANTING AREA DRAINAGE, TYP.
6	PAVER LAYOUT STARTING POINT, ALIGN PAVERS WITH CORNER OF BUILDING/ WALL AS SHOWN.

SHEET NOTES	
1.	REFER TO SHEETS LC-1.1.1, LC-1.1.2, LC-1.1.3, LC-1.2.1 FOR LANDSCAPE CONSTRUCTION PLANS, ENLARGEMENT PLANS, AND LAYOUT PLANS.
2.	REFER TO SHEET LC-2.0 FOR GENERAL CONSTRUCTION NOTES AND SHEETS LC-2.1, LC-2.2 FOR LANDSCAPE CONSTRUCTION LEGEND.
3.	REFER TO SHEETS LC-3.0 THROUGH LC-3.4 FOR LANDSCAPE CONSTRUCTION DETAILS.
4.	REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5.	SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING PLANS.



RNT ARCHITECTS
 Roesling Nakamura Terada Architects
 363 Fifth Avenue, Ste. 202
 San Diego, California
 P619.233.1023
 F619.233.0016
 www.RNTarchitects.com

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 3916 Normal Street
 San Diego, CA 92103
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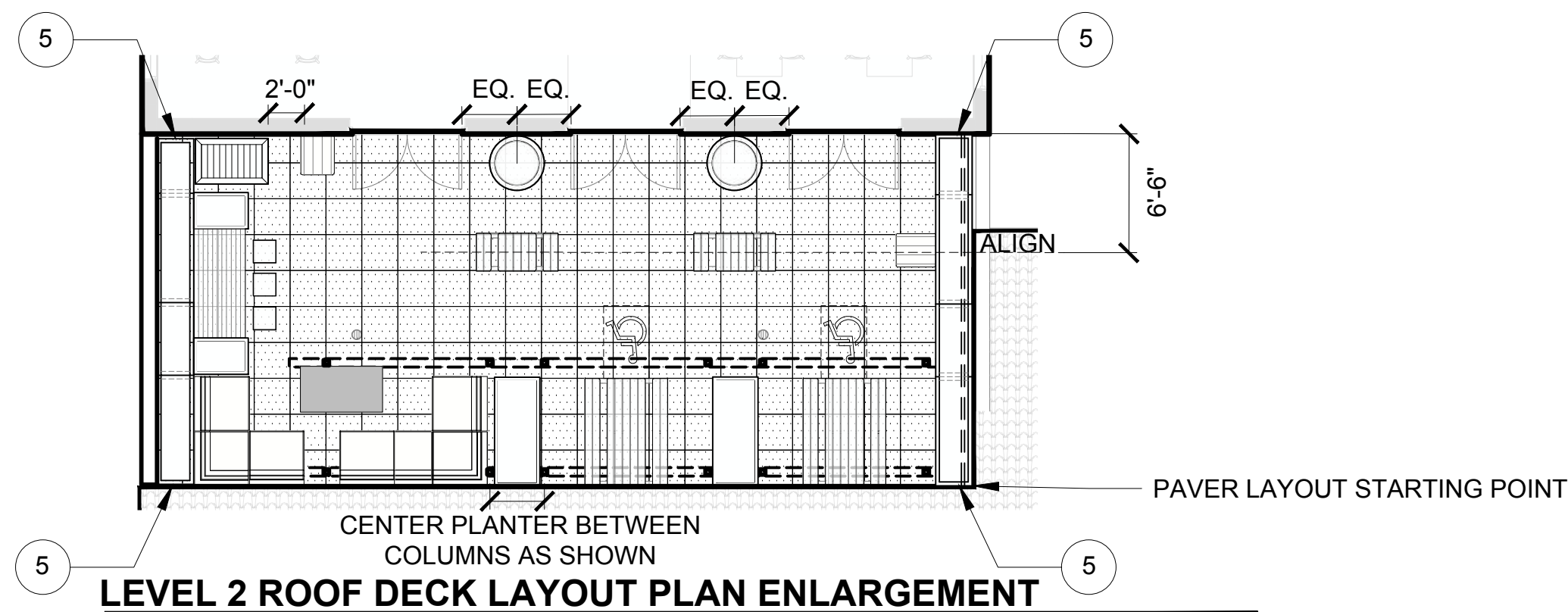
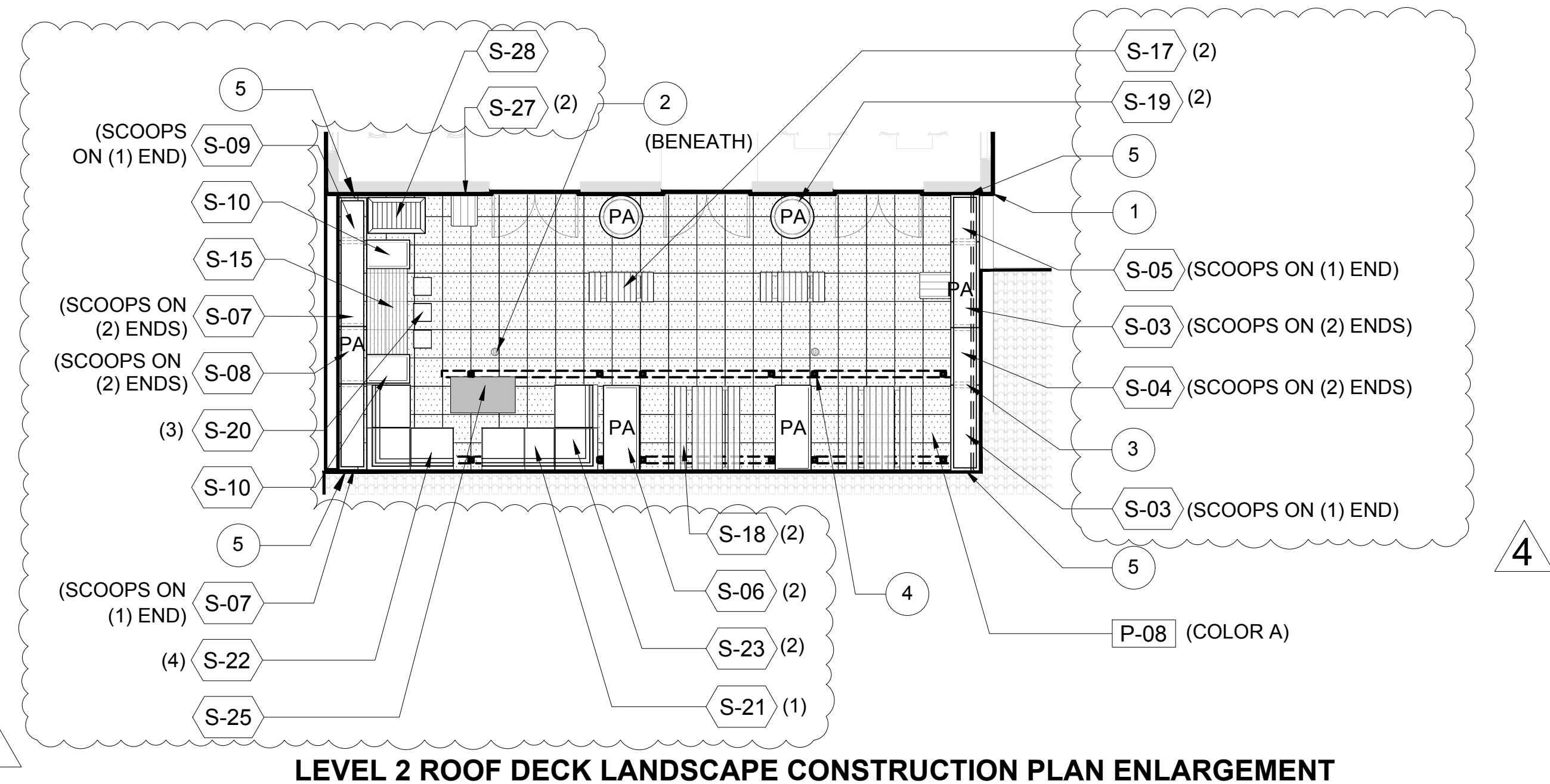
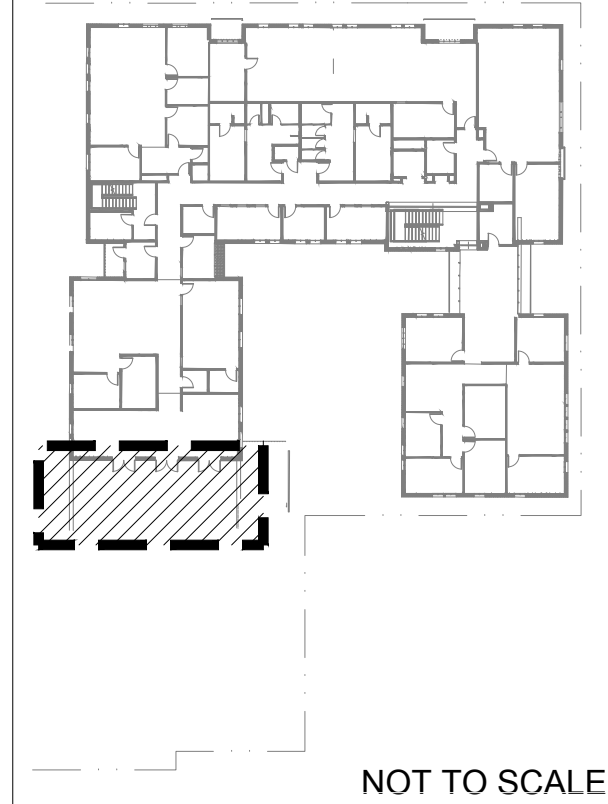
COUNTY OF SANTA BARBARA
 SANTA BARBARA PROBATION

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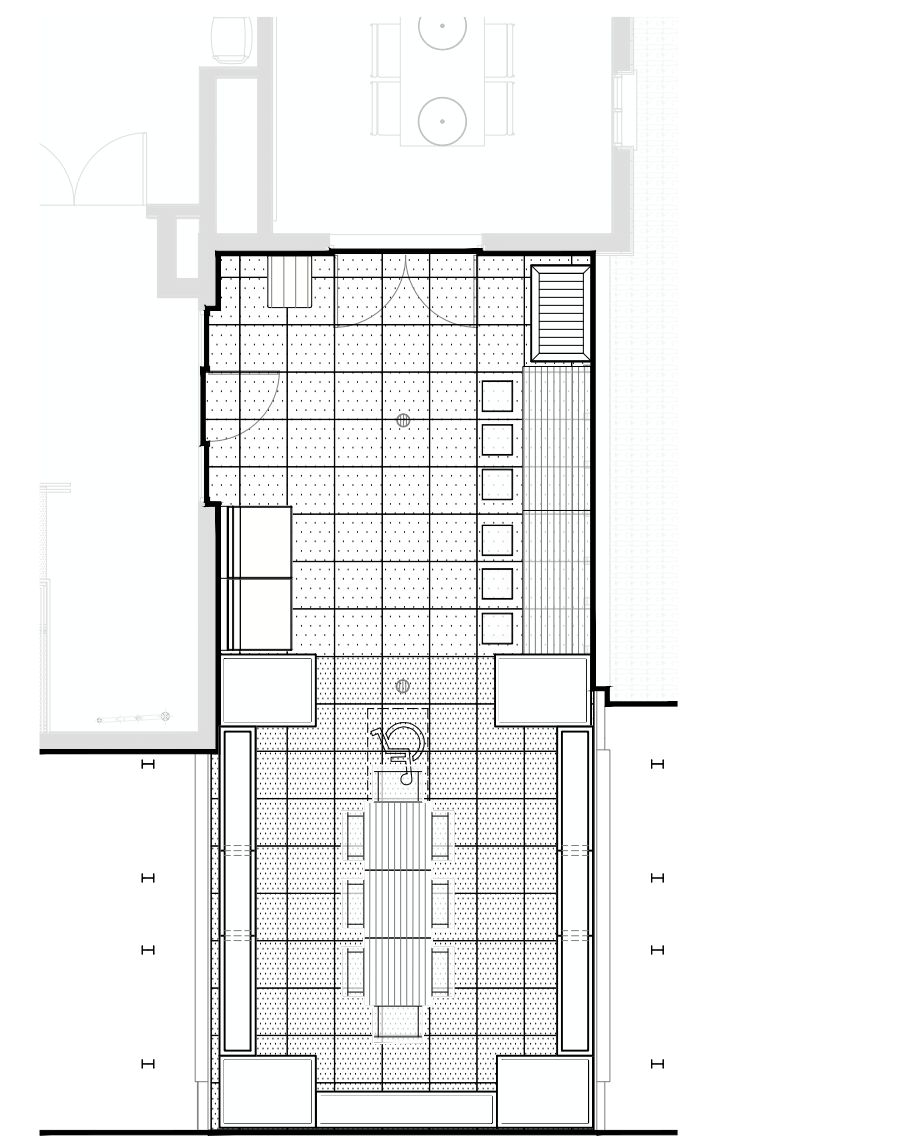
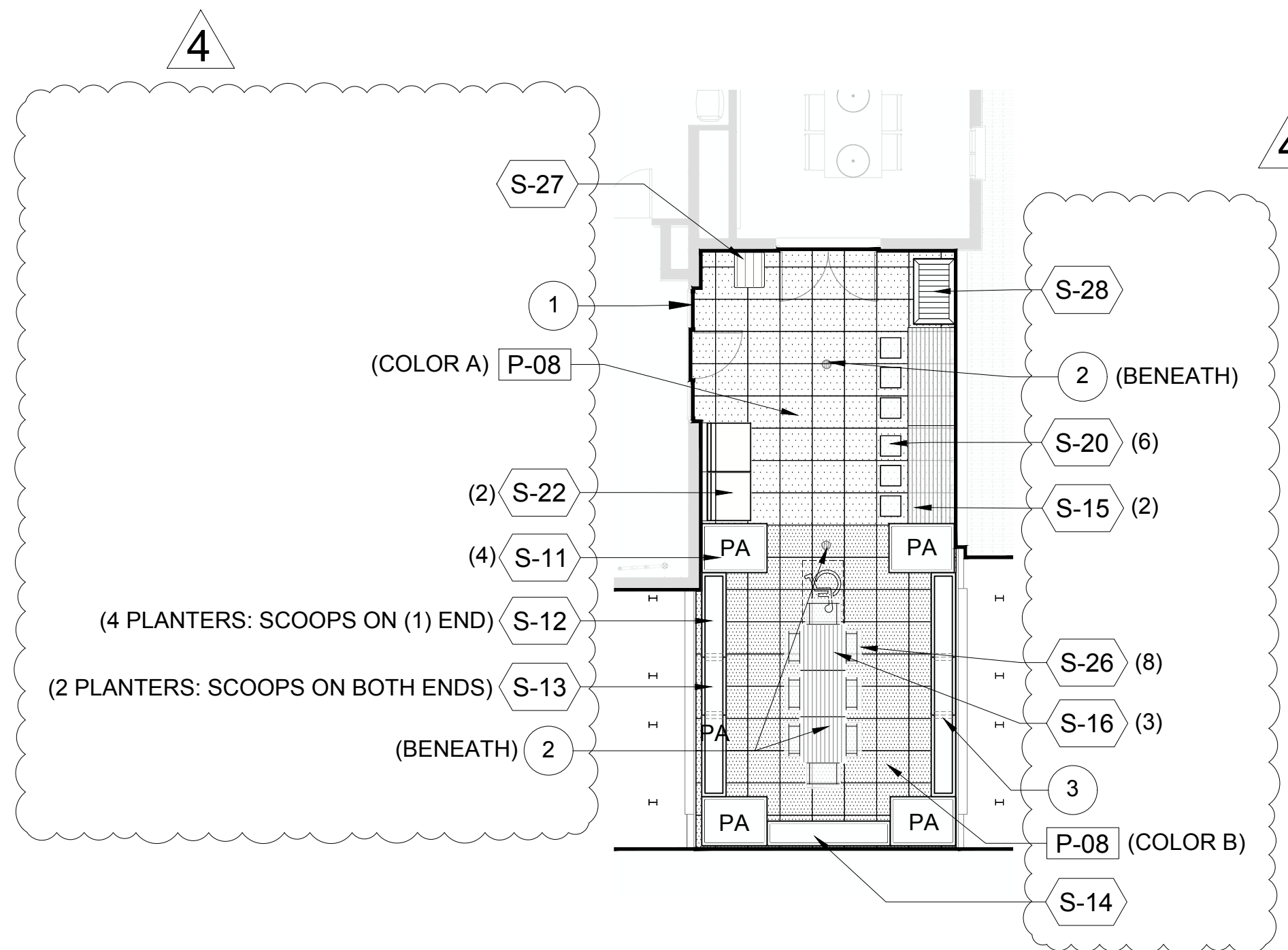
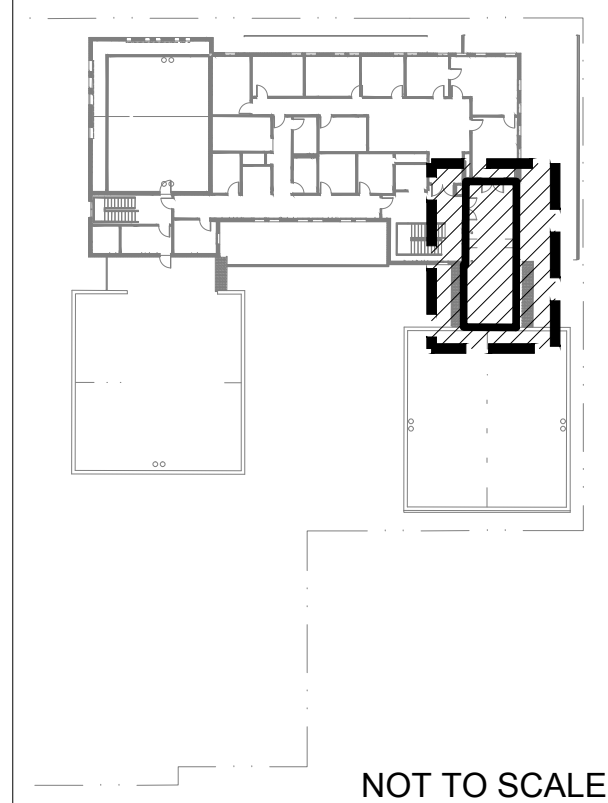
No.	Description	Date
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4	PIP-PC1	4/22/2024

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 895.01
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KEY MAP - LEVEL 2



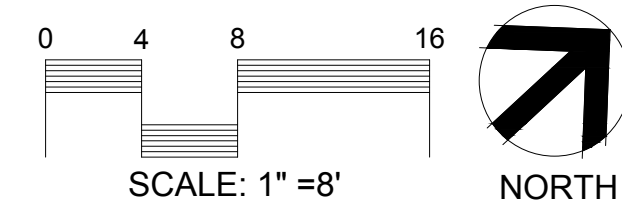
KEY MAP - LEVEL 3



LEVEL 3 ROOF DECK LANDSCAPE CONSTRUCTION PLAN ENLARGEMENT

NOTE: LEVEL 3 DRAINAGE FROM PLANTERS WILL DRAIN DIRECTLY ONTO WATERPROOFING (NO PLUMBED DRAIN LINE TO ROOF DRAIN)

LEVEL 3 ROOF DECK LAYOUT PLAN ENLARGEMENT



LANDSCAPE CONSTRUCTION LEGEND

KEY	SYMBOL	DESCRIPTION	DETAIL
P-08	[Symbol]	TYPE 2 PAVER (COLOR A)	A / LC-3.1
P-08	[Symbol]	TYPE 2 PAVER (COLOR B)	A / LC-3.1
S-03	[Symbol]	PLANTER WCX-722436-90	A / LC-3.2
S-04	[Symbol]	PLANTER WCX-482436-90	A / LC-3.2
S-05	[Symbol]	PLANTER WCX-362436-90	A / LC-3.2
S-06	[Symbol]	PLANTER WCR-723030	A / LC-3.2
S-07	[Symbol]	PLANTER WCR-722448	A / LC-3.2
S-08	[Symbol]	PLANTER WCR-482448	A / LC-3.2
S-09	[Symbol]	PLANTER WCR-362448	A / LC-3.2
S-10	[Symbol]	PLANTER WCR-362436	A / LC-3.2
S-11	[Symbol]	PLANTER WCR-483636	A / LC-3.2
S-12	[Symbol]	PLANTER WCR-601830	A / LC-3.2
S-13	[Symbol]	PLANTER WCR-42.5 1830	A / LC-3.2
S-14	[Symbol]	PLANTER WCR-90.5 1830	A / LC-3.2
S-15	[Symbol]	TYPE 1 TABLE	-
S-16	[Symbol]	TYPE 2 TABLE	-
S-17	[Symbol]	TYPE 3 TABLE	-
S-18	[Symbol]	TYPE 4 TABLE	-
S-19	[Symbol]	PLANTER ROUND	A / LC-3.2
S-20	[Symbol]	COUNTER STOOL	-
S-21	[Symbol]	TYPE 1 FURN. MODULE	-
S-22	[Symbol]	TYPE 2 FURN. MODULE	-
S-23	[Symbol]	TYPE 3 FURN. MODULE	-
S-25	[Symbol]	TYPE 5 FURN. MODULE	-
S-26	[Symbol]	CHAIR WITH ARMREST	-
S-27	[Symbol]	TRASH AND RECYCLING RECEPTACLE	-
S-28	[Symbol]	CUSTOM YARDBOX	-
PA	[Symbol]	PLANTING AREA, TYP.	-

KEY NOTES

- BUILDING, SEE ARCHITECTURAL DRAWINGS
- DECK DRAIN, SEE PLUMBING DRAWINGS
- PLANTER SCOOP, TYP. SEE MANUFACTURER'S PRODUCT DATA SHEETS FOR ADDITIONAL INFORMATION
- SHADE STRUCTURE/TRELLIS POST, SEE ARCHITECTURAL DRAWINGS. CUT PAVERS TO FIT AROUND POST, 1/8" MAX. GAP BETWEEN PAVERS AND POSTS, TYP. PROVIDE ADDITIONAL SCREWJACK PEDESTALS AROUND POSTS /BENEATH CUT PAVERS PER MANUFACTURER'S RECOMMENDATIONS.
- 1" CLEAR BETWEEN PLANTER AND WALL

SHEET NOTES

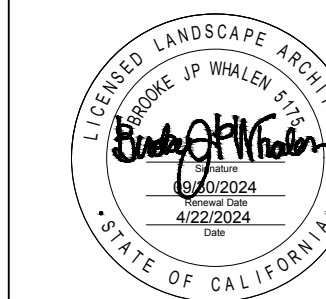
- REFER TO SHEETS LC-1.1.1, LC-1.1.2, LC-1.1.3, LC-1.2.1 FOR LANDSCAPE CONSTRUCTION PLANS, ENLARGEMENT PLANS, AND LAYOUT PLANS.
- REFER TO SHEET LC-2.0 FOR GENERAL CONSTRUCTION NOTES AND SHEETS LC-2.1, LC-2.2 FOR LANDSCAPE CONSTRUCTION LEGEND.
- REFER TO SHEETS LC-3.0 THROUGH LC-3.4 FOR LANDSCAPE CONSTRUCTION DETAILS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING PLANS.



Roesling Nakamura Terada Architects
363 Fifth Avenue, Ste. 202
San Diego, California
P619.233.1023
F619.233.0016
www.RNTarchitects.com



3916 Normal Street
San Diego, CA 92103
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Sheet Name

LEVEL 2, LEVEL 3 LANDSCAPE CONSTRUCTION PLANS AND LAYOUT PLAN ENLARGEMENTS

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Date 4/22/2024
Drawn by: DJ
Checked by: JH
Sheet Number
LC-1.2.1
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LANDSCAPE CONSTRUCTION LEGEND

PAVING & SURFACING

KEY	ITEM	DESCRIPTION	COLOR & FINISH	NOTES & REMARKS	SUPPLIER INFORMATION	DETAIL
P-01	SAW CUT JOINT	SAW CUT CONTROL JOINT 1/2" DEEP X 1/8" WIDE	-	SAWCUT JOINTS SHALL EXTEND TO FACE OF WALLS, BUILDINGS, AND OTHER STRUCTURES AND PAVING EDGES, TYPICAL. MAXIMUM JOINT SPACING SHALL NOT EXCEED 10' O.C. REFER TO PLANS FOR LOCATIONS.	-	A / LC-3.0
P-02	EXPANSION JOINT	FIBER EXPANSION JOINT MATERIAL, STEEL DOWEL WITH SLEEVE	SEALANT COLOR TO MATCH ADJACENT PAVING, 3/8" WIDE EXPANSION MATERIAL	MAXIMUM JOINT SPACING SHALL NOT EXCEED 20' O.C., TYP. USE SIKAFLEX - 1A JOINT SEALANT OVER NOMAFLEX POLYPROPYLENE JOINT FILLER PLANK OR POLYFOAM POLYETHYLENE (AT CURVILINEAR JOINTS) BACKING MATERIAL. REFER TO PLANS FOR LOCATIONS	SIKA CORPORATION USA.SIKA.COM	A / LC-3.0
P-03	DECOMPOSED GRANITE (STABILIZED UNLESS NOTED OTHERWISE)	STABILIZED DECOMPOSED GRANITE	COLOR: BRIMSTONE	INSTALL PER DETAILS AND SPECIFICATIONS. PROVIDE MOCK-UP PER SPECIFICATIONS.	SOUTHWEST BOULDER & STONE SOUTHWESTBOULDER.COM	B / LC-3.0
P-04	TYPE 1 CONCRETE (PEDESTRIAN THICKNESS)	NATURAL GREY CONCRETE PAVING	COLOR: NATURAL GRAY FINISH: MEDIUM BROOM	CONTRACTOR SHALL PROVIDE MOCK UP PER SPECIFICATIONS WITH JOINTING AND MEDIUM BROOM FINISH FOR OWNER'S REPRESENTATIVE TO REVIEW AND SELECT (1) FINISH TO BE USED FOR ALL TYPE 1 CONCRETE. BROOM FINISH SHALL BE IN DIRECTION PERPENDICULAR TO ADJACENT STREET TRAFFIC, TYP.	DAYTON SUPERIOR DAYTONSUPERIOR.COM	SEE CIVIL DRAWINGS
P-05	TYPE 1 CONCRETE (VEHICULAR THICKNESS)	NATURAL GREY CONCRETE PAVING	COLOR: NATURAL GRAY FINISH: MEDIUM BROOM			
P-06	TYPE 2 CONCRETE (PEDESTRIAN THICKNESS)	INTEGRAL COLOR CONCRETE PAVING	COLOR: PUEBLO BROWN FINISH: TOPCAST #15 OR TOPCAST #25	CONTRACTOR SHALL PROVIDE MOCK UP PER SPECIFICATIONS WITH JOINTING AND TOP CAST #15 FINISH AND SHALL PROVIDE MOCK UP WITH JOINTING AND TOP CAST #25 FINISH FOR OWNER'S REP. TO REVIEW AND SELECT (1) FINISH TO BE USED FOR ALL TYPE 2 CONCRETE.	DAVIS COLORS PHONE: (800) 356-4848 WEBSITE: WWW.DAVISCOLORS.COM	
P-07	CONCRETE HEADER	CONCRETE HEADER WITH REBAR REINFORCEMENT	COLOR: MATCH TYPE 3 CONCRETE FINISH: MATCH TYPE 3 CONCRETE	INSTALL PER DETAILS AND SPECIFICATIONS.	DAYTON SUPERIOR DAYTONSUPERIOR.COM	B / LC-3.0
P-08	TYPE 1 PAVER (COLOR A) TYPE 1 PAVER (COLOR B)	WESTERN PLAZA CONCRETE PAVER SYSTEM	COLOR A: LATTE 24X24, SHOTBLAST COLOR B: NATURAL 24X24, SHOTBLAST	INSTALL PER DETAILS AND SPECIFICATIONS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS	OLDCASTLE/BELGARD PHIL.GALLICCHIO, PHONE: 949.281.9692 PHIL.GALLICCHIO@OLDCASTLE.COM	A / LC-3.1
P-09	TYPE 2 PAVER (COLOR A) TYPE 2 PAVER (COLOR B)	SILVERLAKE PORCELAIN PAVER SYSTEM	COLOR A: RESIA 24X24 COLOR B: MORITZ 24X24	INSTALL PER DETAILS AND SPECIFICATIONS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS		A / LC-3.1
P-10	TYPE 3 CONCRETE (PEDESTRIAN THICKNESS)	NATURAL GREY CONCRETE PAVING	COLOR: NATURAL GRAY FINISH: TOPCAST #03 OR TOPCAST #05	CONTRACTOR SHALL PROVIDE MOCK UP WITH JOINTING AND TOP CAST #03 FINISH AND SHALL PROVIDE MOCK UP WITH JOINTING AND TOP CAST #05 FINISH FOR OWNER'S REP. TO REVIEW AND SELECT (1) FINISH TO BE USED FOR ALL TYPE 3 CONCRETE.	DAYTON SUPERIOR DAYTONSUPERIOR.COM	SEE CIVIL DRAWINGS

4

SITE FURNISHINGS

S-01	BIKE RACK	TANDEM BIKE RACK, 32" TALL (CIRCLEPVC)	FUSION ADV COLOR: TEXTURED BRONZE MOUNTING: SURFACE MOUNT	INSTALL PER DETAIL, PER MANUFACTURER'S RECOMMENDATIONS.	ANOVA FURNISHINGS WWW.ANOVAFURNISHINGS.COM REP. PHONE: (949) 285-0433 PRE. CONTACT: ERIKA EIFLER	D / LC-3.0
S-02	PLANTER WCR-602436	WILSHIRE COLLECTION PLANTER, 60" X 24" X 36" TALL	COLOR: SHADOW MATERIAL: GFRC "NATURAL SAND" FINISH DRAINAGE AND IRRIGATION HOLES: MANUFACTURER PROVIDED.	INSTALL PER DETAILS, PER MANUFACTURER'S RECOMMENDATIONS.	TOURNESOL TOURNESOL.COM	A / LC-3.2
S-03	PLANTER WCX-722436-78	WILSHIRE SCREEN PLANTER, 72" X 24" X 24" TALL X 78" OVERALL HEIGHT, LASER CUT SCREEN - STD PATTERN# 2	COLOR: SHADOW MATERIAL: GFRC "NATURAL SAND" FINISH SCREEN COLOR: SCREEN COLOR TO MATCH METAL WINDOW AS SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS. SCREEN POSITIONING: OFFSET DRAINAGE AND IRRIGATION HOLES: MANUFACTURER PROVIDED	INSTALL PER DETAILS, PER MANUFACTURER'S RECOMMENDATIONS. NOTE SOME PLANTERS HAVE SCOOPS, SEE PLANS FOR LOCATIONS. OFFSET SCREEN LOCATION AS SHOWN PER PLAN.		
S-04	PLANTER WCX-482436-78	WILSHIRE SCREEN PLANTER, 48" X 24" X 24" TALL X 78" OVERALL HEIGHT, LASER CUT SCREEN - STD PATTERN# 2				
S-05	PLANTER WCX-362424-78	WILSHIRE SCREEN PLANTER, CUSTOM 36" X 24" X 24" TALL X 78" OVERALL HEIGHT, LASER CUT SCREEN - STD PATTERN# 2				
S-06	PLANTER WCR-723030	WILSHIRE COLLECTION PLANTER, 72" X 30" X 30" TALL	COLOR: SHADOW MATERIAL: GFRC "NATURAL SAND" FINISH DRAINAGE AND IRRIGATION HOLES: MANUFACTURER PROVIDED.	INSTALL PER DETAILS, PER MANUFACTURER'S RECOMMENDATIONS. NOTE SOME PLANTERS HAVE SCOOPS, SEE PLANS FOR LOCATIONS.		
S-07	PLANTER WCR-722448	WILSHIRE COLLECTION PLANTER, 72" x 24" x 48" TALL				
S-08	PLANTER WCR-482448	WILSHIRE COLLECTION PLANTER, 48" x 24" x 48" TALL				
S-09	PLANTER WCR-362448	WILSHIRE COLLECTION PLANTER, 36" x 24" x 48" TALL				
S-10	PLANTER WCR-362436	WILSHIRE COLLECTION PLANTER, 36" x 24" x 36" TALL				
S-11	PLANTER WCR-483636	WILSHIRE COLLECTION PLANTER, 48" X 36" X 36" TALL				
S-12	PLANTER WCR-601830	WILSHIRE COLLECTION PLANTER, 60" X 18" X 30" TALL				
S-13	PLANTER WCR-42.5 1830	WILSHIRE COLLECTION PLANTER, CUSTOM 42.5" X 18" X 30" TALL				
S-14	PLANTER WCR-90.5 1830	WILSHIRE COLLECTION PLANTER, CUSTOM 45.75" X 18" X 30" TALL				

NOTE:

1. INSTALLATION OF ADDITIONAL ITEMS ON TOP OF DECK (I.E. PLANTERS, FURNISHINGS) SHALL BE SUPPORTED DIRECTLY BY ADDITIONAL PEDESTALS THAT ARE IN ADDITION TO THE MAIN DECK PAVER/ TILE PEDESTAL SYSTEM. FINAL QUANTITY OF ADDITIONAL PEDESTALS SHALL BE PER PEDESTAL PAVER MANUFACTURER.

SHEET NOTES

1. REFER TO SHEETS LC-1.1.1, LC-1.1.2, LC-1.1.3, LC-1.2.1 FOR LANDSCAPE CONSTRUCTION PLANS, ENLARGEMENT PLANS, AND LAYOUT PLANS.
2. REFER TO SHEET LC-2.0 FOR GENERAL CONSTRUCTION NOTES AND SHEETS LC-2.1, LC-2.2 FOR LANDSCAPE CONSTRUCTION LEGEND.
3. REFER TO SHEETS LC-3.0 THROUGH LC-3.4 FOR LANDSCAPE CONSTRUCTION DETAILS.
4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. SEE ELECTRICAL DRAWINGS FOR SITE LIGHTING PLANS.



Roesling Nakamura
Terada Architects

363 Fifth Avenue, Ste. 202
San Diego, California
P619.233.1023
F619.233.0016
www.RNTarchitects.com



3916 Normal Street
San Diego, CA 92103
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COUNTY OF
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BARBARA

SANTA
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PROBATION

BID SET

No.	Description	Date
1	PC1	12/15/2023
2	PC2	1/26/2024
4	PIP- PC1	4/22/2024

Sheet Name

LANDSCAPE
CONSTRUCTION
LEGEND

895.01

Date 4/22/2024

Drawn by: DJ

Checked by: JH

Sheet Number

LC-2.1

Sheet of Sheets

LANDSCAPE CONSTRUCTION LEGEND

SITE FURNISHINGS						
KEY	ITEM	DESCRIPTION	COLOR & FINISH	NOTES & REMARKS	SUPPLIER INFORMATION	DETAIL
S-15	TYPE 1 TABLE	MIXX THERMORY COUNTER HEIGHT TABLE, 72" X 34" TALL, UNANCHORED (MIX2955T)	STEEL COLOR: TEXTURED PEWTER WOOD SLAT COLOR: THERMORY	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	ANOVA FURNISHINGS WWW.ANOVAFURNISHINGS.COM	-
S-16	TYPE 2 TABLE	MIXX 34" SQUARE THERMORY TABLE 34" SQ. X 31" TALL, UNANCHORED (MIX2925T)	STEEL COLOR: TEXTURED PEWTER WOOD SLAT COLOR: THERMORY	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	REP. PHONE: (949) 285-0433 PRE. CONTACT: ERIKA EIFLER	-
S-17	TYPE 3 TABLE	RAUTSTER RTW152 PICNIC TABLE, GALVANIZED STEEL, UNANCHORED	POWDERCOAT COLOR: PURE WHITE WOOD: THERMALLY MODIFIED WOOD	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	MMCCITÉ MMCCITE.COM	-
S-18	TYPE 4 TABLE	RAUTSTER RTW181 PICNIC SET, GALVANIZED STEEL, UNANCHORED	POWDERCOAT COLOR: PURE WHITE WOOD: THERMALLY MODIFIED WOOD	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.		-
S-19	PLANTER ROUND	HORUS ROUND CAST STONE PLANTER 36" DIA. X 38" TALL C19-HOR-R3638	COLOR: OXIDO, MATERIAL: GFRC 2" DIA. DRAINAGE HOLE AND 2" DIA. IRRIGATION HOLE TO BE PROVIDED BY MANUFACTURER.	INSTALL PER DETAIL AND PER MANUFACTURER'S RECOMMENDATIONS. VERIFY THAT THE STANDARD DRAINAGE HOLE DIAMETER AND PROPOSED IRRIGATION HOLE DIAMETER IS COMPATIBLE WITH THE DRAINAGE ADAPTER PRIOR TO ORDERING.	PLANTERS UNLIMITED PLANTERSUNLIMITED.COM	A / LC-3.2
S-20	COUNTER STOOL	MIXX THERMORY COUNTER HEIGHT STOOL, 15" SQ. X 25" TALL, UNANCHORED (MIX2937T)	STEEL COLOR: TEXTURED PEWTER WOOD SLAT COLOR: THERMORY	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	ANOVA, SEE INFORMATION ABOVE	-
S-21	TYPE 1 FURN. MODULE	CLOSED MODULE CENTER (26" W.), (733-11-111-63-00), W/ CUSHION, 20LB WEIGHT	JANUSCOAT FINISH: PALLADIUM CUSHION FABRIC: TAUPE II (MESH M2 COL.)	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FURNISH 20LB WEIGHT AND STRAP FROM MANUFACTURER FOR EACH SECTION. USE GANGING CLIPS AS APPLICABLE.	JANUS ET CIE JANUSETCIE.COM	-
S-22	TYPE 2 FURN. MODULE	CLOSED MODULE CENTER WIDE (36.25" W.), (733-11-112-40-00), W/ CUSHION, 20LB WEIGHT	JANUSCOAT FINISH: PALLADIUM CUSHION FABRIC: TAUPE II (MESH M2 COL.)	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FURNISH 20LB WEIGHT AND STRAP FROM MANUFACTURER FOR EACH SECTION. USE GANGING CLIPS AS APPLICABLE.		-
S-23	TYPE 3 FURN. MODULE	CLOSED MODULE CORNER (36.25" W.), (733-11-113-63-00), W/ CUSHION, 20LB WEIGHT	JANUSCOAT FINISH: PALLADIUM CUSHION FABRIC: TAUPE II (MESH M2 COL.)	INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FURNISH 20LB WEIGHT AND STRAP FROM MANUFACTURER FOR EACH SECTION. USE GANGING CLIPS AS APPLICABLE.		-
S-24	TYPE 4 FURN. MODULE	CLOSED OTTOMAN / TABLE WIDE 92, (733-11-591-63-00), W/ 20LB WEIGHT	JANUSCOAT FINISH: PALLADIUM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.		-
S-25	TYPE 5 FURN. MODULE	CLOSED OTTOMAN / TABLE X-WIDE 138, (733-11-601-40-00), W/ 20 LB WEIGHT	JANUSCOAT FINISH: PALLADIUM	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.		-
S-26	CHAIR WITH ARMREST	ELEVATION THERMORY CHAIR WITH ARMREST, UNANCHORED (ELV60T)	STEEL COLOR: TEXTURED PEWTER WOOD SLAT COLOR: THERMORY	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.		-
S-27	TRASH AND RECYCLING RECEPTACLE	45 GALLON DUAL TRASH/RECYCLER WITH SIDE DOOR	PANEL/LID COLOR: TEXTURED PEWTER FRAME COLORS: TEXTURED SANDSTONE LABEL 1: MIXED RECYCLING (WHITE LETTERING) LABEL 2: TRASH (WHITE LETTERING)	INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	ANOVA, SEE INFORMATION ABOVE	-
S-28	CUSTOM YARDBOX	WILSHIRE COLLECTION PLANTER, 48" x 30" x 30" TALL W/ CUSTOM HINGED LID WITH LATCHING MECHANISM	COLOR: SHADOW MATERIAL: BODY: GFRC "NATURAL SAND" FINISH, THERMORY WOOD HINGED LID W/ STAINLESS STEEL LATCHING MECHANISM. DRAINAGE HOLES: MANUFACTURER PROVIDED, CONTRACTOR SHALL CORE PENETRATIONS FOR IRRIGATION IN AND OUT OF BOX IN THE FIELD, REFER TO MANUFACTURER RECOMMENDATIONS.	MANUFACTURER TO PROVIDE DETAIL FOR SUBSEQUENT SUBMITTAL.	TOURNESOL TOURNESOL.COM	-
WALLS						
W-01	DECORATIVE CONCRETE WALL	CAST IN PLACE INTEGRAL COLOR CONCRETE WALL	COLOR: PUEBLO BROWN FINISH: TOPCAST #05	CONTRACTOR SHALL PROVIDE MOCK UP PER SPECIFICATIONS AND SHALL INCLUDE JOINTING, FINISH, CORNERS, EDGES FOR OWNER'S REPRESENTATIVE TO REVIEW AND APPROVE PRIOR TO POURING OF WALL. PROVIDE MATTE FINISH PERMASHIELD PREMIUM 5600 NON-SACRIFICIAL ANTI-GRAFFITI SEALANT ON ALL EXPOSED SURFACES, EXTEND 4" MIN. BELOW FINISH GRADE, TYP.	DAYTON SUPERIOR DAYTONSUPERIOR.COM	A / LC-3.3

- NOTES:
- INSTALLATION OF ADDITIONAL ITEMS ON TOP OF DECK (I.E. PLANTERS, FURNISHINGS) SHALL BE SUPPORTED DIRECTLY BY ADDITIONAL PEDESTALS THAT ARE IN ADDITION TO THE MAIN DECK PAVER/ TILE PEDESTAL SYSTEM. FINAL QUANTITY OF ADDITIONAL PEDESTALS SHALL BE PER PEDESTAL PAVER MANUFACTURER.
 - CONTRACTOR SHALL FIELD MEASURE TO VERIFY ALL DIMENSIONS OF ALL PLANTERS AND PROVIDE DIMENSIONS TO MANUFACTURER PRIOR TO SUBMITTAL AND ORDERING.

SHEET NOTES

- REFER TO SHEETS LC-1.1.1, LC-1.1.2, LC-1.1.3, LC-1.2.1 FOR LANDSCAPE CONSTRUCTION PLANS, ENLARGEMENT PLANS, AND LAYOUT PLANS.
- REFER TO SHEET LC-2.0 FOR GENERAL CONSTRUCTION NOTES AND SHEETS LC-2.1, LC-2.2 FOR LANDSCAPE CONSTRUCTION LEGEND.
- REFER TO SHEETS LC-3.0 THROUGH LC-3.4 FOR LANDSCAPE CONSTRUCTION DETAILS.
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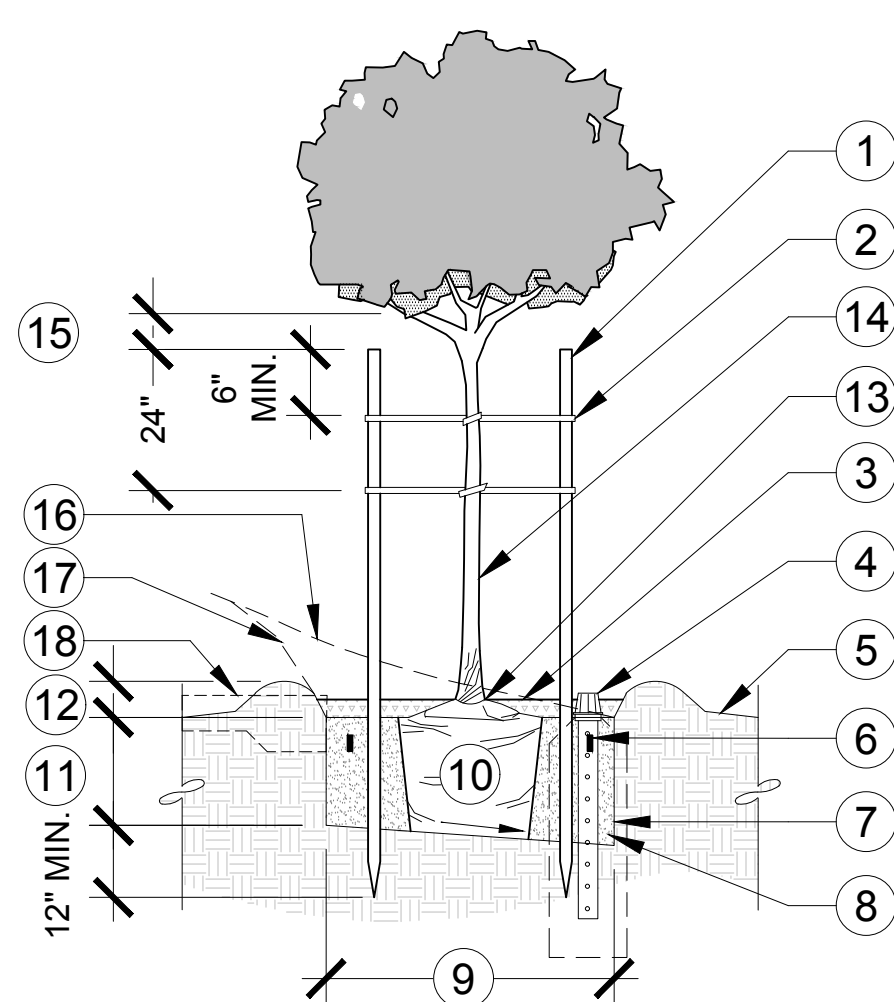
BID SET

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1	PC1	12/15/2023
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Sheet Name

LANDSCAPE
CONSTRUCTION
LEGEND

895.01
Date 4/22/2024
Drawn by: DJ
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Sheet of Sheets



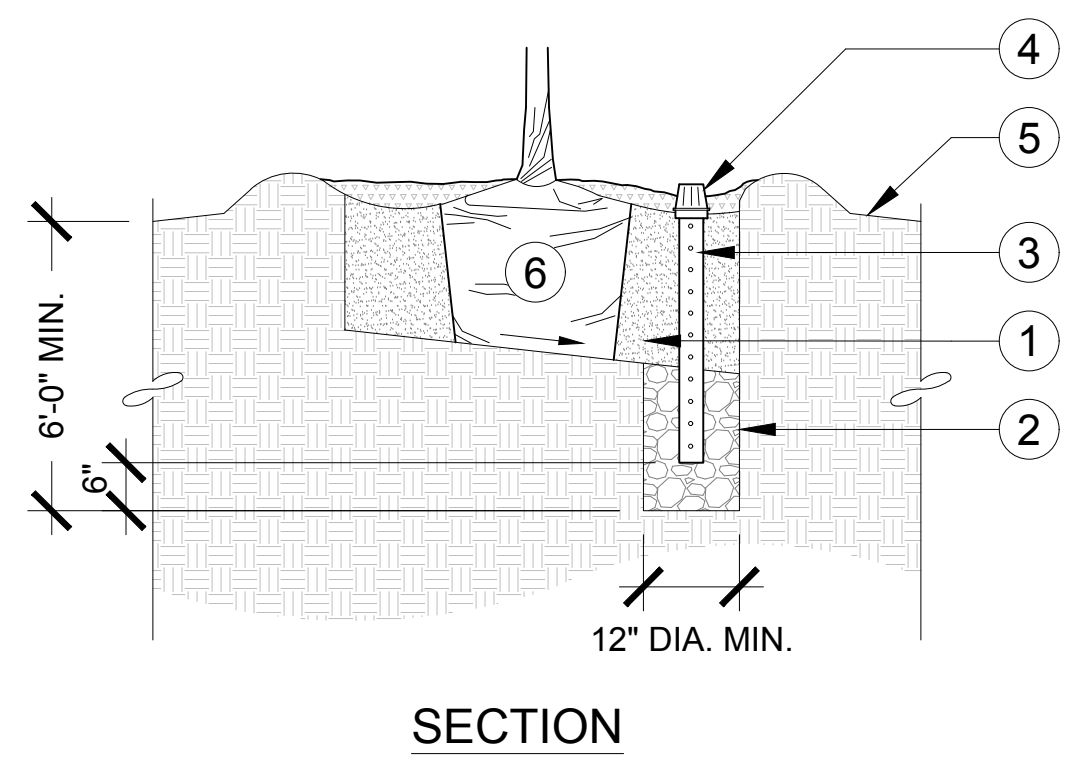
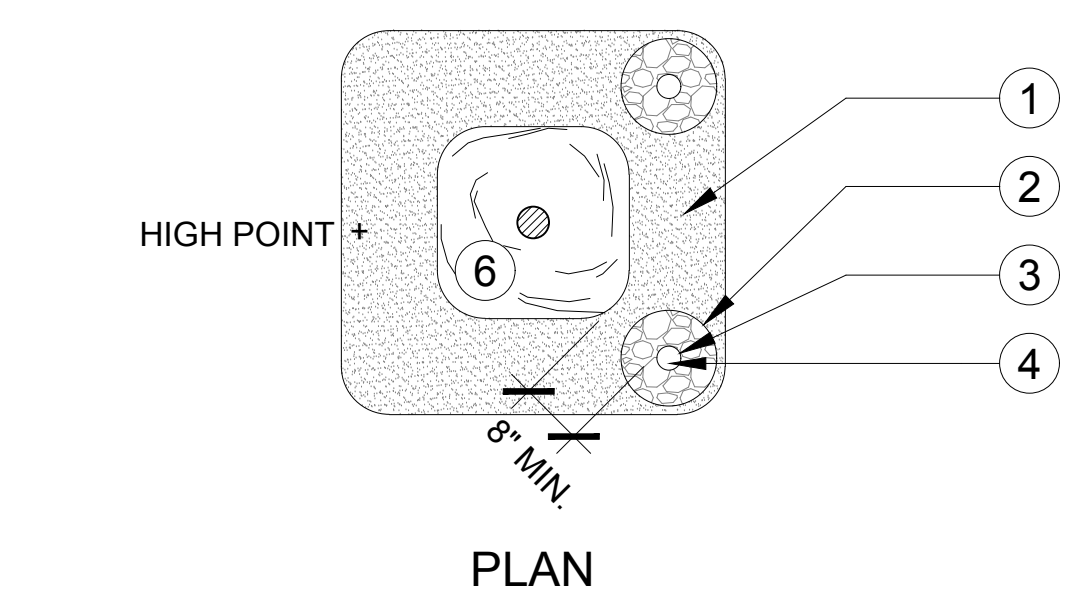
- LEGEND**
- 1 TREE STAKE PER SPECIFICATIONS
 - 2 TREE TIE (MIN. 4 REQUIRED, NAIL TO STAKE USING 1-1/4\" GALVANIZED THREADED NAILS)
 - 3 MULCH, REFER TO SPECIFICATIONS AND PLANTING NOTES FOR DEPTH AND TYPE
 - 4 SEE TREE OBSERVATION TUBE DETAIL
 - 5 FINISH GRADE
 - 6 PLANT TABLETS PER SPECIFICATIONS, INSTALL 3\" BELOW GRADE, TYP.

- 7 PLANTING PIT W/ ROUGHENED SIDES AND SLOPED BOTTOM PER TREE OBSERVATION TUBE DETAIL. REFER TO SPECIFICATIONS AND PLANTING NOTES FOR BACKFILL MIX.
- 8 BACKFILL MIX, PUDDLE AND SETTLE PER SPECIFICATIONS
- 9 2x ROOTBALL DIAMETER MIN.
- 10 ROOTBALL
- 11 DEPTH OF ROOTBALL
- 12 4\" WATERING BASIN, REMOVE BASIN AT END OF MAINTENANCE PERIOD AND MULCH AS NEEDED
- 13 TREE COLLAR PER SPECIFICATIONS
- 14 TREE TRUNK
- 15 CUT STAKES BELOW TREE CANOPY
- 16 EXISTING GRADE AT SLOPES
- 17 NEW FINISH GRADE AT SLOPES (WHERE APPLICABLE)
- 18 THICKENED CURB AT TREE WELLS, REFER TO CIVIL

- NOTES:**
1. REFER TO SPECIFICATIONS FOR PLANTING PROCEDURES AND ADDITIONAL INFORMATION.
 2. REMOVE FROM BOX WITH AS LITTLE DISTURBANCE TO THE ROOTBALL AS POSSIBLE.
 3. FOR TREES PLANTED IN MAIN COURTYARD, OMIT 4\" HIGH WATERING BERM AND TREE STAKES.
 4. SEE SHEETS LP-1.1.2 AND LC-3.2 FOR GREENLITE SOIL LOCATIONS. IN GREENLITE SOIL LOCATIONS OMIT #7 AND #8 IN LEGEND ABOVE.

A TREE PLANTING WITH DOUBLE STAKING
SECTION NOT TO SCALE

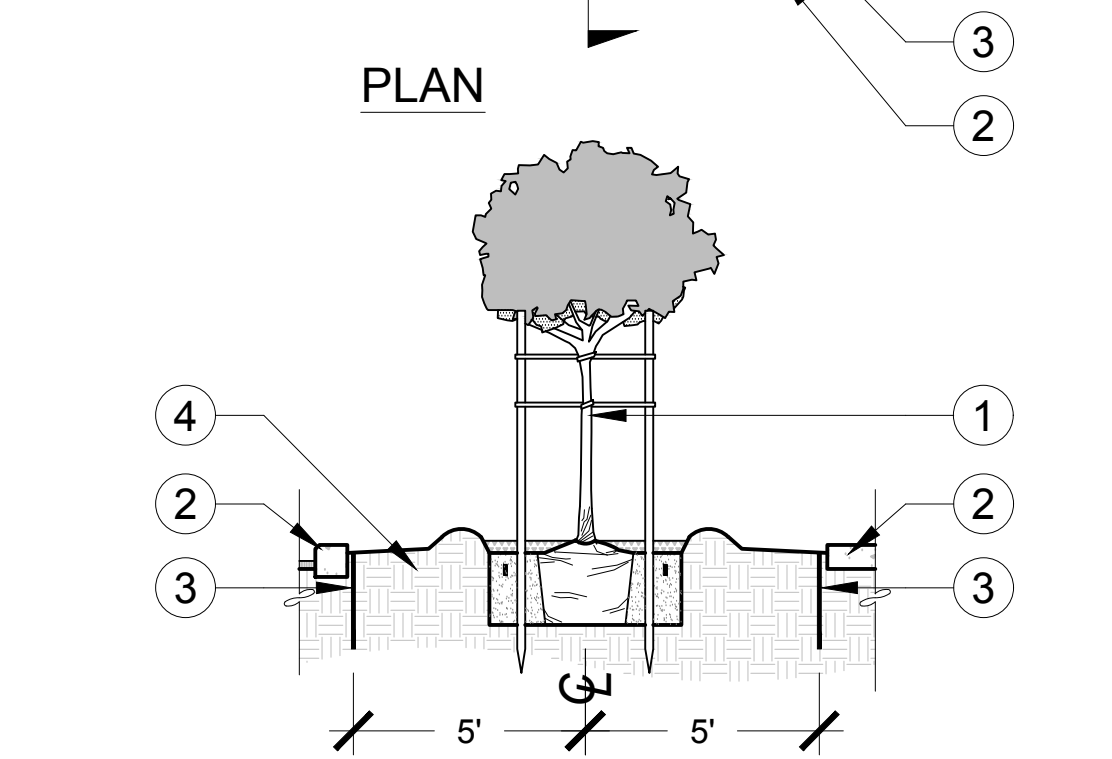
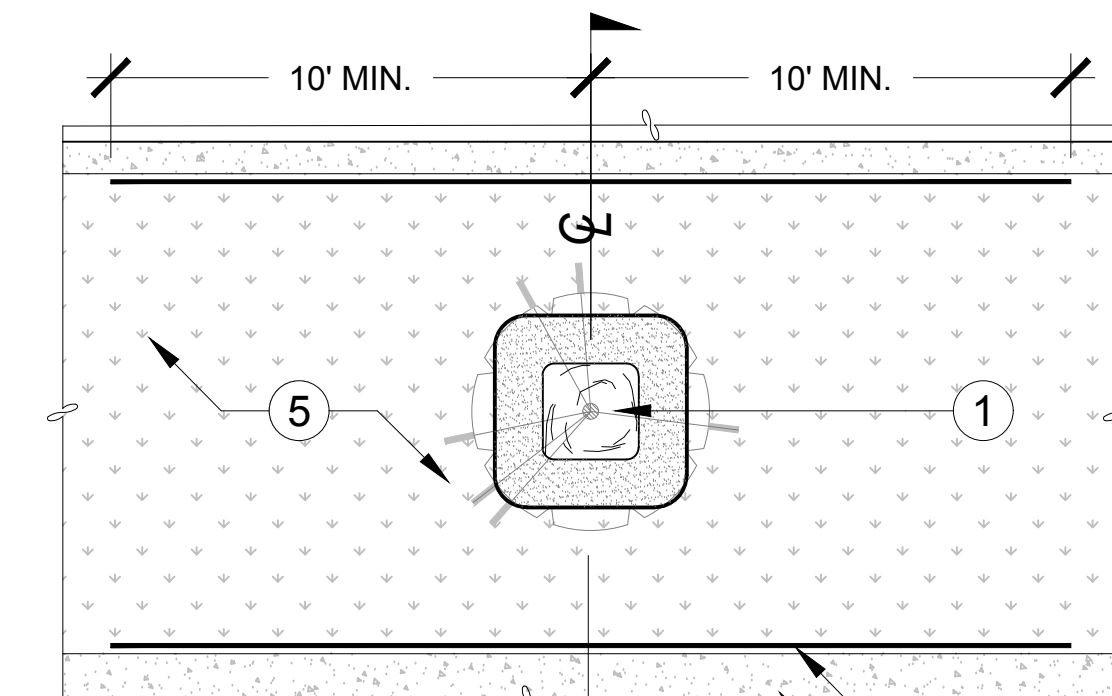
4



- LEGEND**
- 1 BACKFILL MIX
 - 2 GRAVEL FILL AROUND PIPE
 - 3 4\" PERFORATED PIPE WITH FILTER SOCK. DO NOT FILL PERF. PIPE WITH GRAVEL.
 - 4 4\" DIA. BLACK DRAIN GRATE. USE ATRIUM GRATE WITH INTERNAL MESH SCREEN IN PLANTING AREAS AND FLAT ROUND GRATE IN DECOMPOSED GRANITE AREAS (IF APPLICABLE)
 - 5 FINISH GRADE
 - 6 UNDISTURBED ROOTBALL

- NOTES:**
1. EXTEND PERFORATED PIPE BELOW BOTTOM OF ROOTBALL AS SHOWN. SLOPE BOTTOM OF PLANTER PIT TO DRAIN TOWARDS PERFORATED PIPE. SIPHON WATER AS REQUIRED TO PREVENT ROOT ROT.
 2. CONTRACTOR SHALL INSTALL A MINIMUM OF TWO (2) TREE DRAIN STANDPIPES FOR 24\" BOX TREES OR LARGER, TYP.

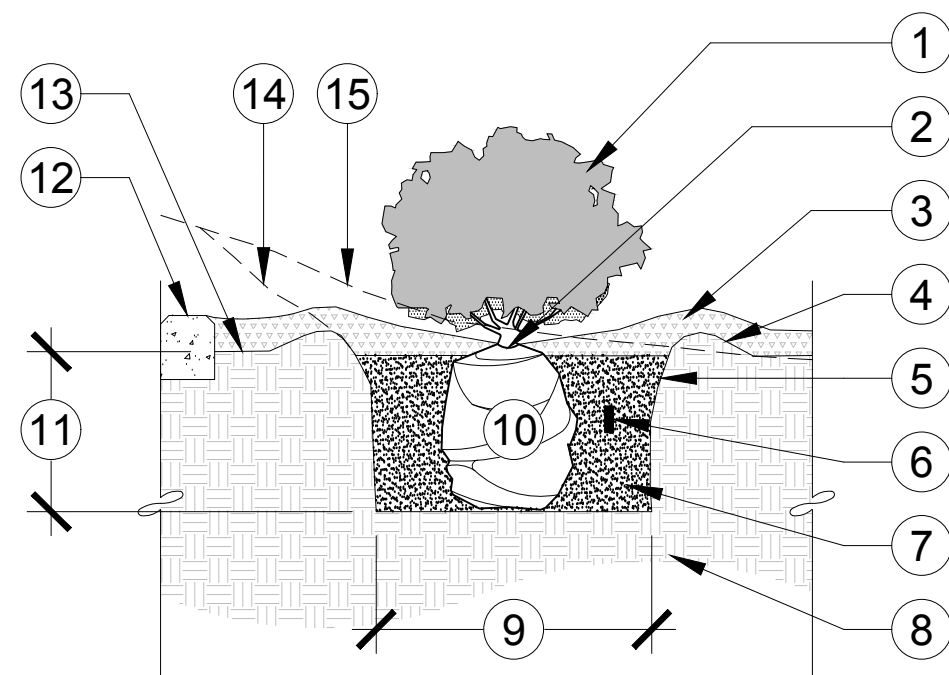
B TREE OBSERVATION TUBE
PLAN | SECTION NOT TO SCALE



- LEGEND**
- 1 TREE PLANTING PER PLANTING LEGEND AND DETAILS
 - 2 ADJACENT HARDSCAPE EDGE, FINISH GRADE OF PLANTING AREA TO BE 2\" BELOW, SEE DETAIL C
 - 3 ROOT BARRIER AS REQUIRED (SEE NOTES BELOW)
 - 4 TOPSOIL AND SUBGRADE PER CIVIL PLANS
 - 5 ADJACENT GROUNDCOVER OR SHRUB PLANTING

- NOTES:**
1. ROOT BARRIERS SHALL BE INSTALLED WHEN TREES ARE WITHIN 5' OF HARDSCAPE AND AS SHOWN ON PLANS
 2. WHERE POSSIBLE INSTALL 10' EACH SIDE OF TRUNK MEASURED PARALLEL TO HARDSCAPE X 24\" DEEP.
 3. INSTALL PARALLEL TO WALKS & CURBS.
 4. DO NOT ENCIRCLE TREE IF POSSIBLE.
 5. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION.

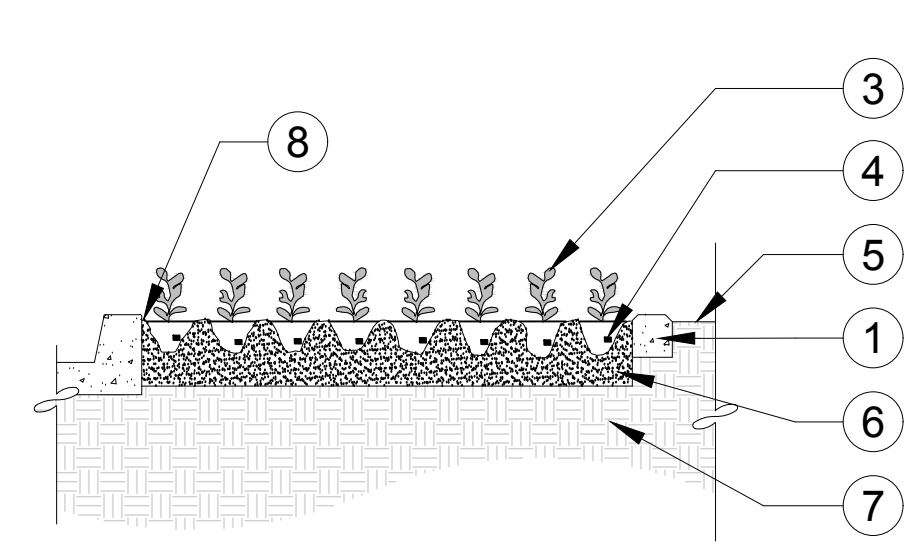
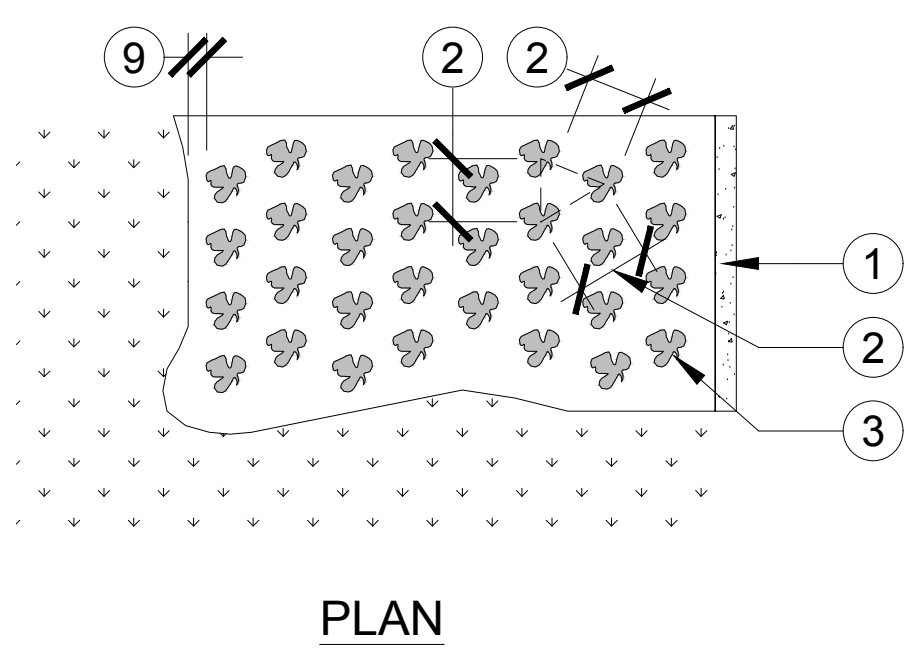
C ROOT BARRIER
PLAN | SECTION NOT TO SCALE



- NOTE:**
1. FOR SHRUBS PLANTED IN MAIN COURTYARD, PLANTER POTS AND RECTANGULAR PLANTERS, OMIT THE 4\" HIGH WATERING BERM.
 2. SEE SHEETS LP-1.1.2 AND LC-3.2 FOR GREENLITE SOIL LOCATIONS. IN GREENLITE SOIL LOCATIONS OMIT #7 AND #8 IN LEGEND ABOVE.

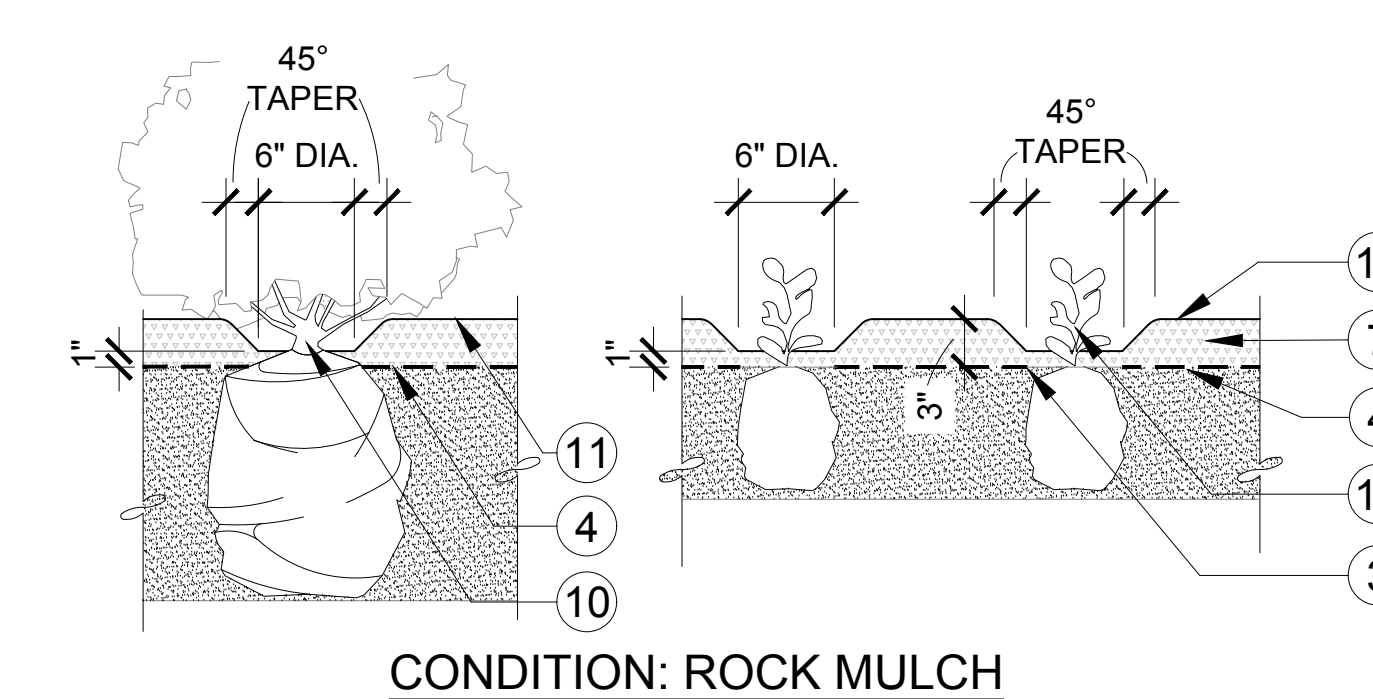
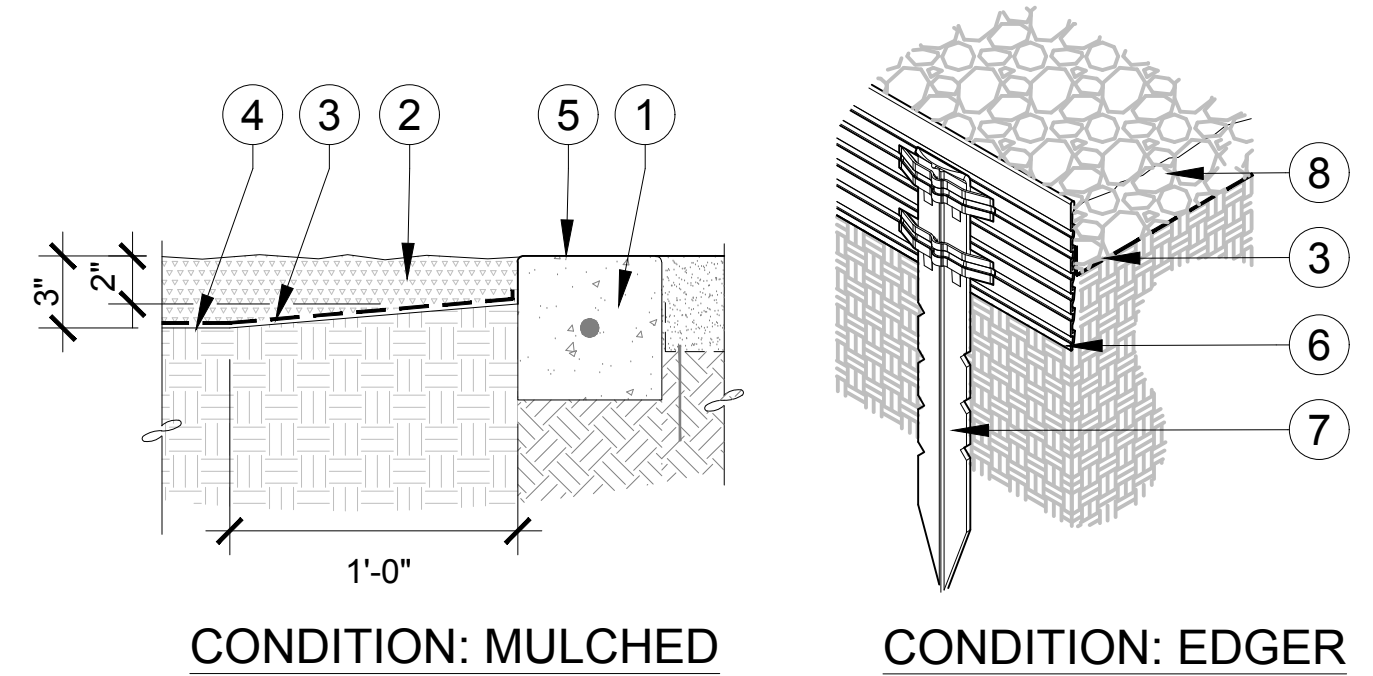
- LEGEND**
- 1 SHRUB
 - 2 SHRUB CROWN (1\" ABOVE FINISH GRADE)
 - 3 MULCH, REFER TO SPECS. & PLANTING NOTES FOR DEPTH & TYPE
 - 4 4\" HIGH WATERING BERM ALL AROUND
 - 5 PLANT PIT W/ ROUGHENED SIDES
 - 6 PLANT TABLETS (3\" BELOW GRADE)
 - 7 BACKFILL MIX (PUDDLE & SETTLE)
 - 8 TOPSOIL AND SUBGRADE PER SPECIFICATIONS
 - 9 2X ROOTBALL DIAMETER MIN.
 - 10 ROOTBALL
 - 11 DEPTH OF ROOTBALL
 - 12 CURB OR PAVING (WHERE APPLICABLE)
 - 13 SET FINISH GRADE EQUAL TO THE DEPTH OF BARK MULCH BELOW FINISH SURFACE OF PAVING (WHERE APPLICABLE)
 - 14 NEW FINISH GRADE AT SLOPE (WHERE APPLICABLE)
 - 15 EXISTING FINISH GRADE AT SLOPE (WHERE APPLICABLE)

D SHRUB PLANTING
PLAN | SECTION NOT TO SCALE



- LEGEND**
- 1 EDGE OF PAVING
 - 2 EQUAL, SEE PLANTING PLAN AND LEGEND FOR SPACING
 - 3 GROUNDCOVER
 - 4 PLANT TABLET (1\" MIN. AWAY FROM ROOTS)
 - 5 FINISH GRADE
 - 6 PREPARE SOIL THROUGHOUT PLANTING AREA
 - 7 SUBGRADE PER CIVIL PLANS
 - 8 SET FINISH GRADE EQUAL TO THE DEPTH OF BARK MULCH BELOW FINISH SURFACE OF PAVING
 - 9 1/2 OF SPACING DISTANCE AT ALL EDGES
- NOTE:**
1. SEE SHEETS LP-1.1.2 AND LC-3.2 FOR GREENLITE SOIL LOCATIONS. IN GREENLITE SOIL LOCATIONS OMIT #6 AND #7 IN LEGEND ABOVE.

E GROUNDCOVER PLANTING
PLAN | SECTION NOT TO SCALE



- LEGEND**
- 1 HARDSCAPE WHERE OCCURS (CONCRETE OR HEADER)
 - 2 BARK, ROCK, OR COBBLE MULCHED PLANTING AREA, SEE PLANS FOR LOCATIONS.
 - 3 WEED BARRIER FABRIC BENEATH ROCK AND COBBLE MULCH (NOT BARK MULCH), TYP. FABRIC SHALL NOT BE VISIBLE ONCE ROCK/COBBLE HAVE BEEN INSTALLED, TYP. FASTEN FABRIC TO GROUND WITH 6\" GALVANIZED STEEL U STAKES AT 24\" O.C. LAP FABRIC 12\" WHERE FABRIC JOINS. HOLD FABRIC 1-1/2\" BELOW FINISHED SURFACE, TYP.
 - 4 FINISHED GRADE
 - 5 FINISHED SURFACE
 - 6 METAL EDGER, REFER TO SPECIFICATIONS AND PLANTING NOTES FOR TYPE, THICKNESS AND DIMENSION.
 - 7 STEEL STAKE, SECURE STAKE 1/2\" BELOW TOP OF EDGING
 - 8 ROCK OR COBBLE MULCH, TYP.
 - 9 ROCK MULCH, TYP.
 - 10 SHRUB, TYP.
 - 11 TOP OF MULCH VARIES AS SHOWN
 - 12 GROUNDCOVER, TYP.

- NOTES:**
- A. SECURE STAKE WITHIN MULCH OR DECOMPOSED GRANITE.
 - B. EDGER SHALL BE 1/2\" MAX. ABOVE FINISH GRADE.
 - C. COMPACT GRADE ADJACENT TO EDGING TO PREVENT SETTLING.
 - D. INSTALL EDGER PER MANUFACTURER'S RECOMMENDATIONS.

F MULCH, EDGER
SECTION | ISOMETRIC SCALE: N.T.S.



Roesling Nakamura
Terada Architects
363 Fifth Avenue, Ste. 202
San Diego, California
P619.233.1023
F619.233.0016
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No.	Description	Date
1	PC1	12/15/2023
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4	PIP-PC1	4/22/2024

Sheet Name

PLANTING DETAILS

895.01

Date 4/22/2024

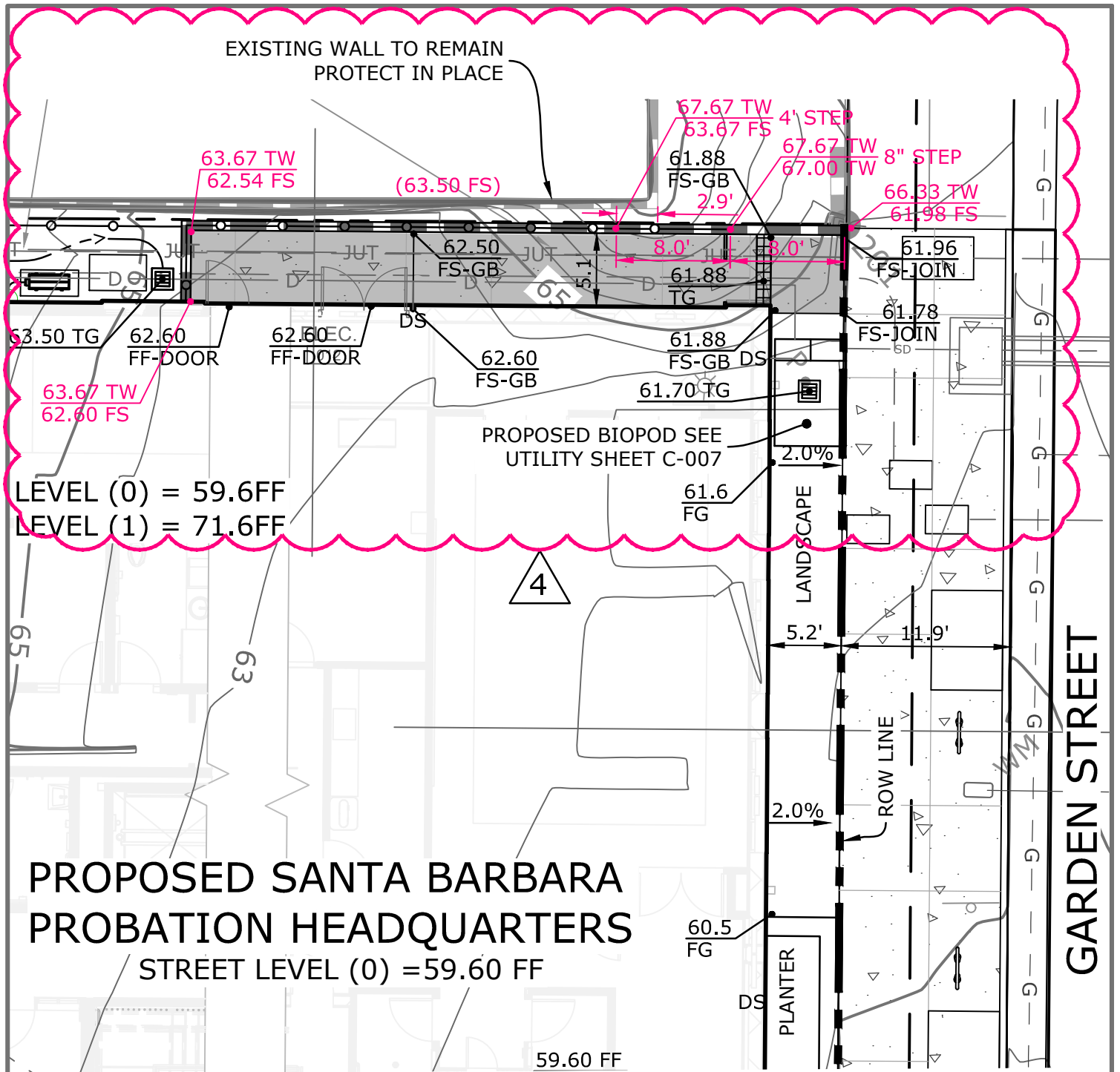
Drawn by: DJ

Checked by: JH

Sheet Number

LP-3.0

Sheet of Sheets



**PROPOSED SANTA BARBARA
PROBATION HEADQUARTERS**
STREET LEVEL (0) = 59.60 FF



**Roesling Nakamura Terada
Architects**
285 N. Ventura Ave. #1C
Ventura, California
P805.626.5330
F805.626.5350
www.RNTarchitects.com

TITLE:
Delta 4 - Revisions to Top of NW Wall Elevations

REFERENCE SHEET NO: C-004 (from Civil plans)

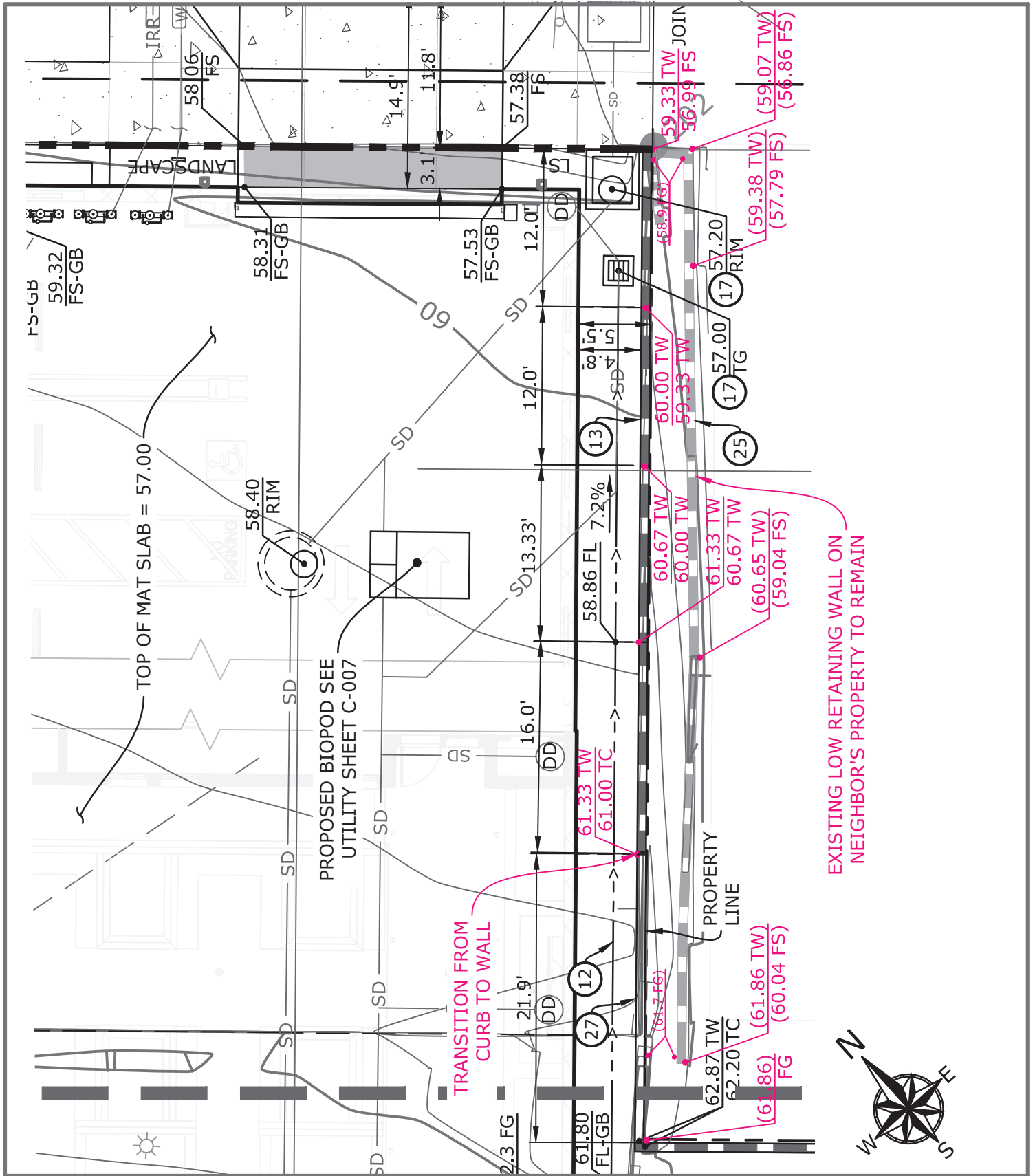
Revised Top of Wall Elevations for the North wall located at the Northeast corner of the property.

SCALE: 1"=10'

PROJ. NO: 0475

DATE: 04/29/2024

SHEET NO:
CSK- A2-1



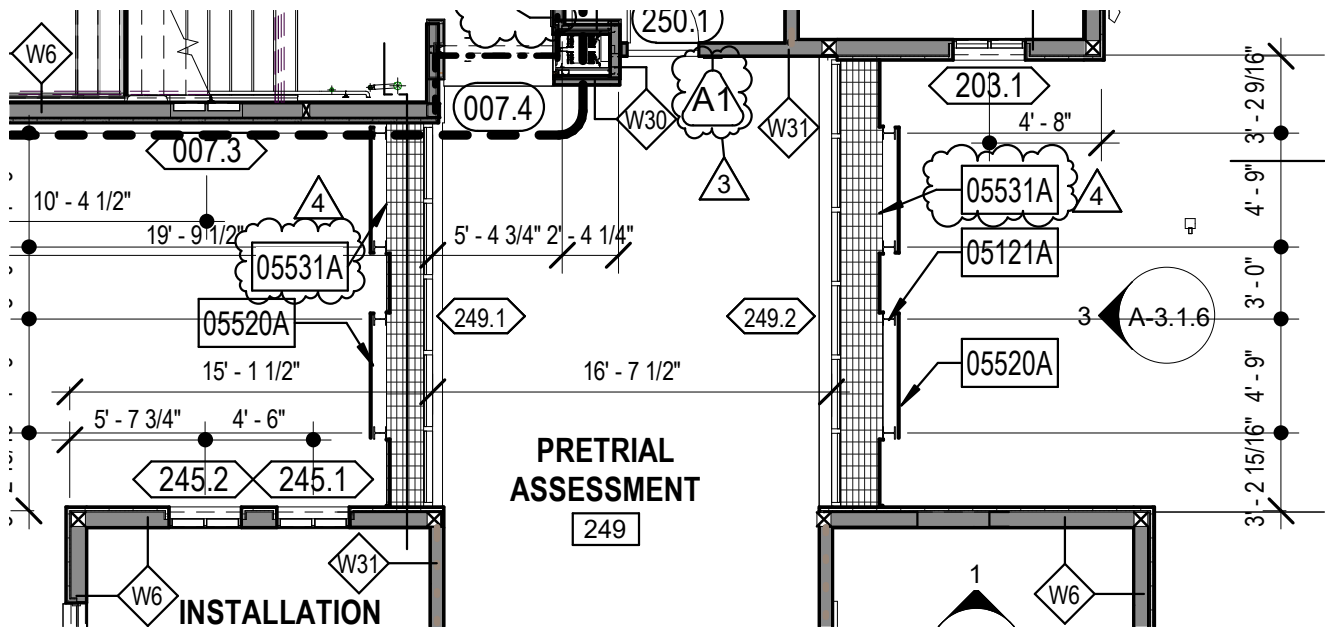

 Roesling Nakamura Terada
 Architects
 285 N. Ventura Ave.#1C
 Ventura, California
 P805.626.5330
 F805.626.5350
 www.RNTArchitects.com

TITLE:
 Delta 4 - Revisions to Top of SE Wall Elevations

REFERENCE SHEET NO: C-004 (from Civil plans)

Revised Top of Wall Elevations for the North wall located at the Northeast corner of the property.

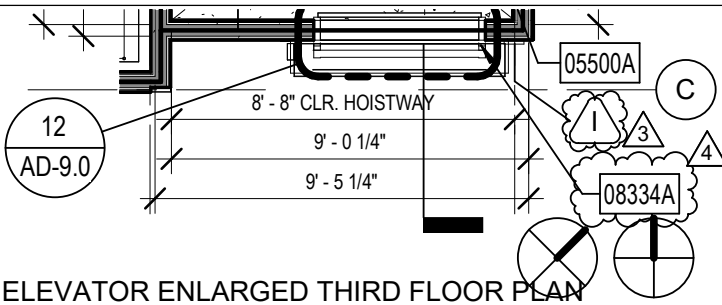
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PROJ. NO: 0475
DATE: 04/29/2024
SHEET NO:
 CSK-A2-2



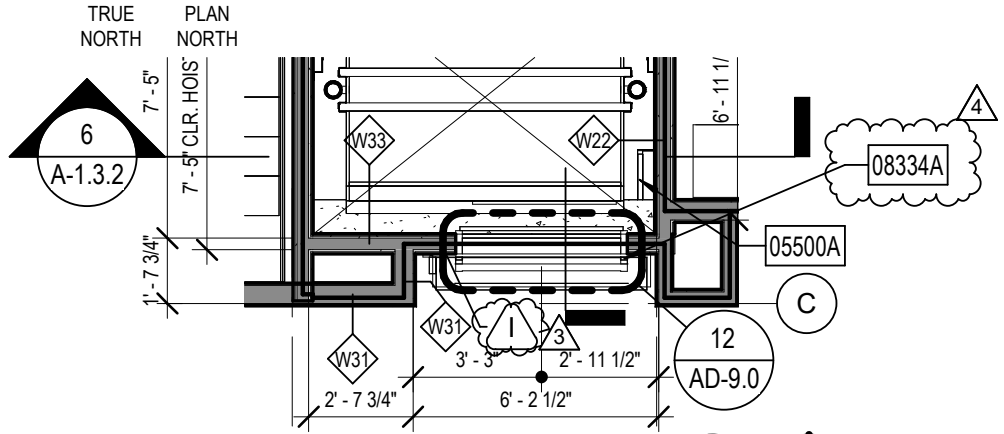
KEYNOTES[†]



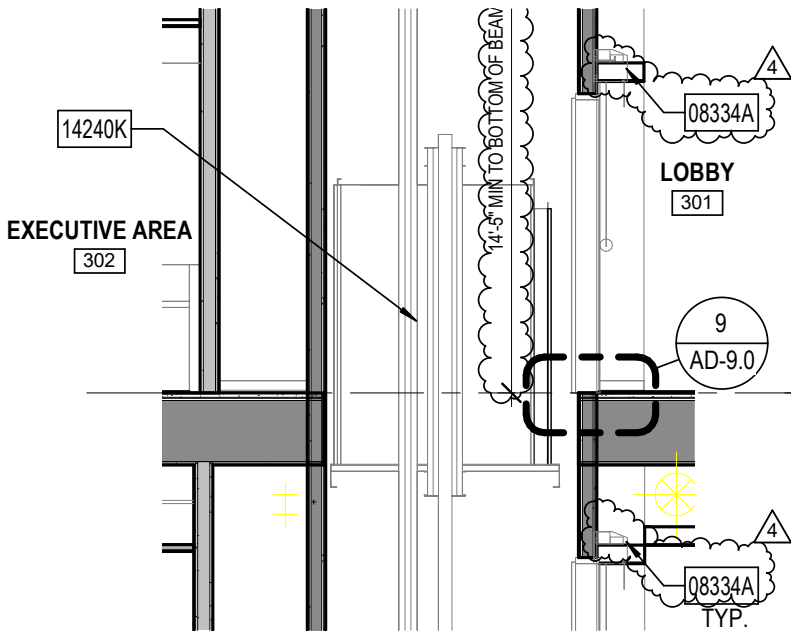
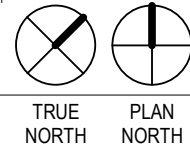
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		REFERENCE SHEET NO: A-1.2.1	PROJ. NO: .895.01
		PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101	DATE: 04/30/2024 SHEET NO: ASK-A2-1



4 ELEVATOR ENLARGED THIRD FLOOR PLAN
 1/4" = 1'-0"



3 ELEVATOR ENLARGED SECOND FLOOR PLAN
 1/4" = 1'-0"



KEYNOTES

08334A OVERHEAD COILING SMOKE CURTAIN (SMOKE AND DRAFT CONTROL ASSEMBLY)



TITLE:
 ENLARGED ELEVATOR PLANS AND SECTIONS

REFERENCE SHEET NO: A-1.3.2

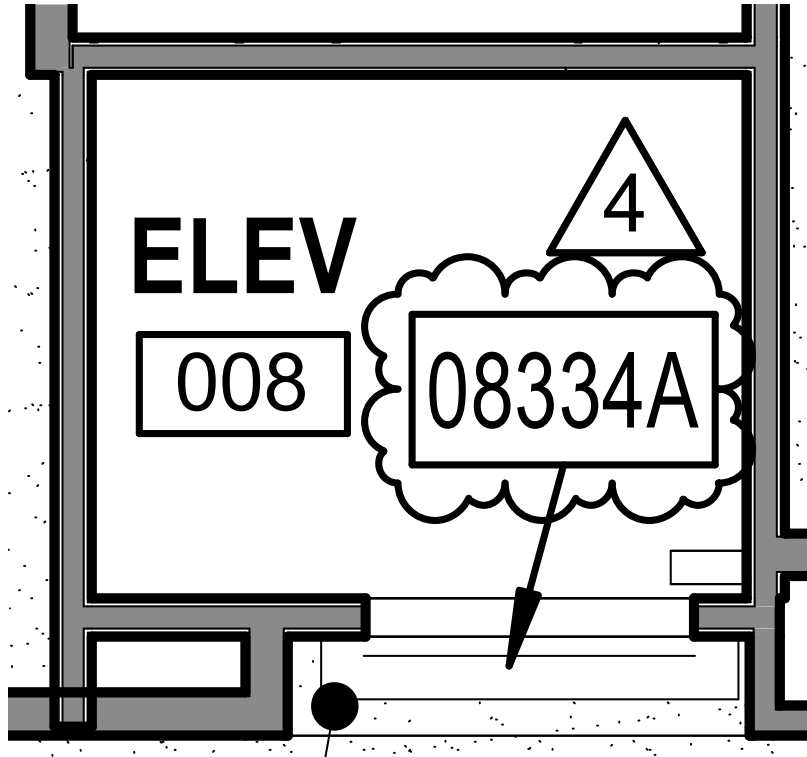
PROBATION HEADQUARTERS
 1019 GARDEN STREET, SANTA BARBARA CA 93101

SCALE: NTS.

PROJ. NO: .895.01



DATE: 04/30/2024

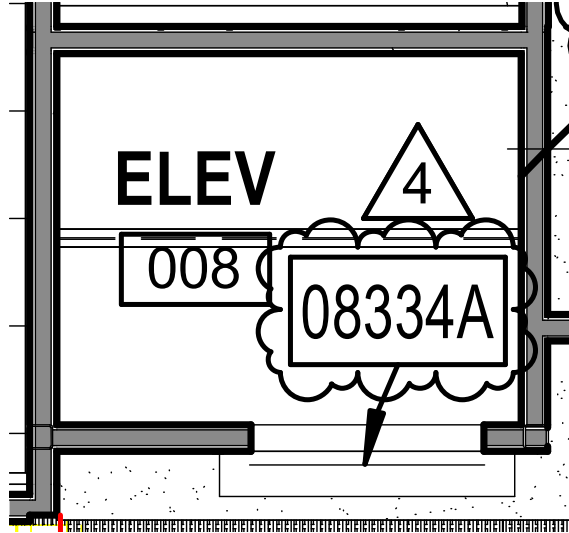
SHEET NO:
ASK-A2-2



KEYNOTES



- 08334A OVERHEAD COILING SMOKE CURTAIN (SMOKE AND DRAFT CONTROL ASSEMBLY) 4
- 06000A LIGHT FIXTURE REFER TO ELECTRICAL DRAWINGS

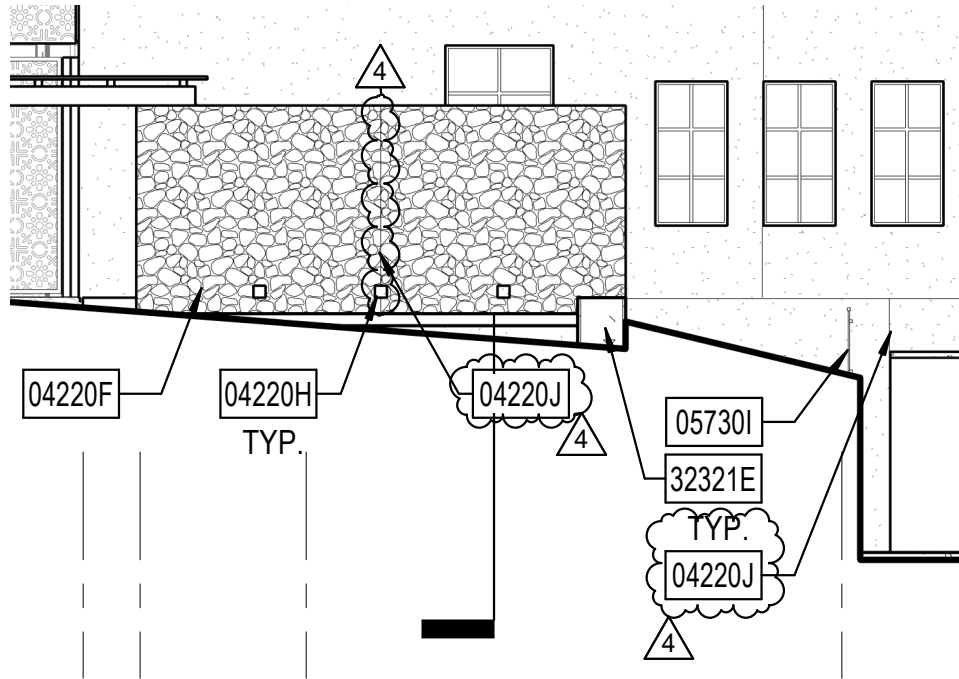
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		REFERENCE SHEET NO: A-2.2.0	PROJ. NO: .895.01
PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101		DATE: 04/30/2024	SHEET NO:
		ASK-A2-3	



KEYNOTES

- 4 08334A OVERHEAD COILING SMOKE CURTAIN (SMOKE AND DRAFT CONTROL ASSEMBLY)

		TITLE: THIRD FLOOR REFLECTED CEILING PLAN	SCALE: NTS.
		REFERENCE SHEET NO: A-2.3.0	PROJ. NO: .895.01
		PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101	DATE: 04/30/2024 SHEET NO: ASK-A2-4



KEYNOTES

4	GRADE	
4	04220J	CMU EXPANSION JOINT, REFER TO DETAIL 3/AD-4.0 AND STRUCTURAL DRAWINGS.



TITLE:
OVERALL EXTERIOR ELEVATION

REFERENCE SHEET NO: A-3.1.2

PROBATION HEADQUARTERS
1019 GARDEN STREET, SANTA BARBARA CA 93101

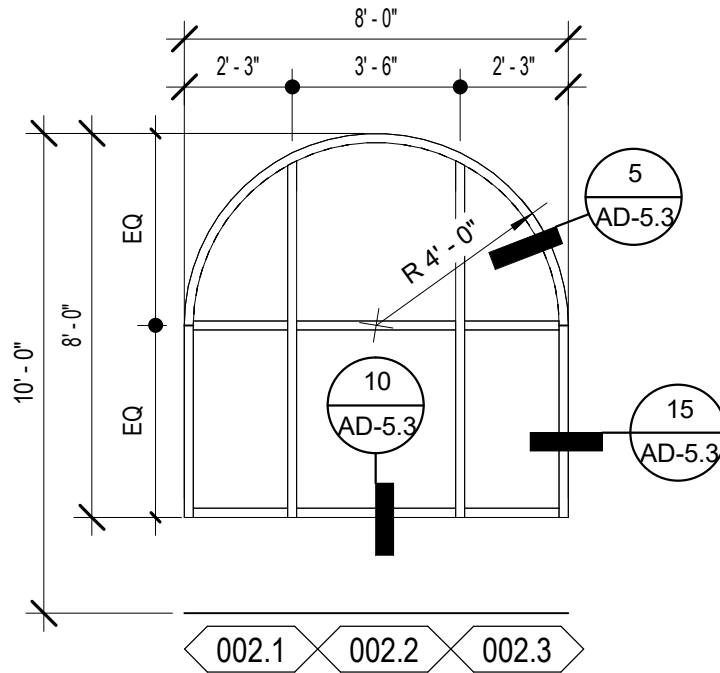
SCALE: NTS.

PROJ. NO: .895.01

DATE: 04/30/2024

SHEET NO:

ASK-A2-5



002.1 002.2 002.3

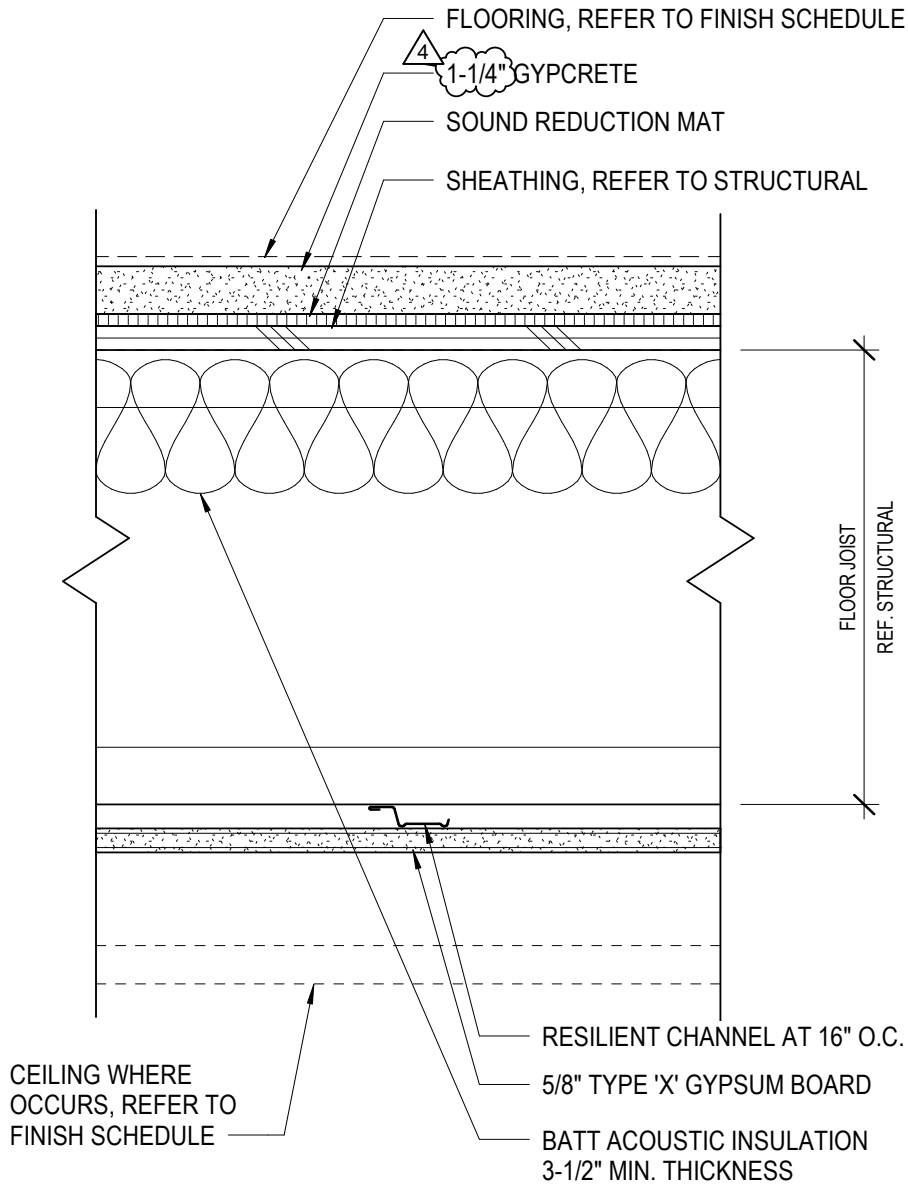
ALUMINIUM STOREFRONT
 PROVIDE ROLLERSHADES 4

GENERAL NOTES

3. PROVIDE LABEL OR ETCHING ON TEMPERED GLASS WITHIN 18" OF DOOR AND AT OTHER 4
4. PROVIDE ROLLER SHADES AT ALL EXTERIOR WINDOWS INDICATED AS "RS" IN REMARKS REFER TO DETAIL 2/ AD-5.2 FOR EXTENTS OF SHADES
5. PROVIDE FLEXIBLE FLASHING AT ALL EXTERIOR WINDOW HEAD AND JAMBS

PROVIDE ROLLER SHADES AT ALL EXTERIOR WINDOWS INDICATED AS "RS" IN REMARKS REFER TO DETAIL 2/ AD-5.2 FOR EXTENTS OF SHADES

		TITLE: STOREFRONT SCHEDULE	SCALE: NTS.
		REFERENCE SHEET NO: A-7.2.3	PROJ. NO: .895.01
PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101		SHEET NO:	ASK-A2-6



FIRE RATING	TEST #	STC RATING	IIC RATING	TEST #
N/A	N/A	MIN. 60	MIN. 50	RAL-0T-03-0 AND RAL-0T-03-10

FLOOR ASSEMBLY AT WOOD STRUCTURE WITH RESILIENT OR CARPET FLOORING

3" = 1'-0" **F1**

F
D



TITLE:
FLOOR ASSEMBLIES

REFERENCE SHEET NO: AD-0.5

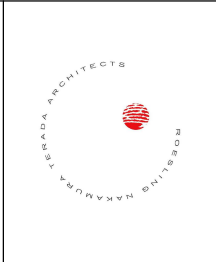
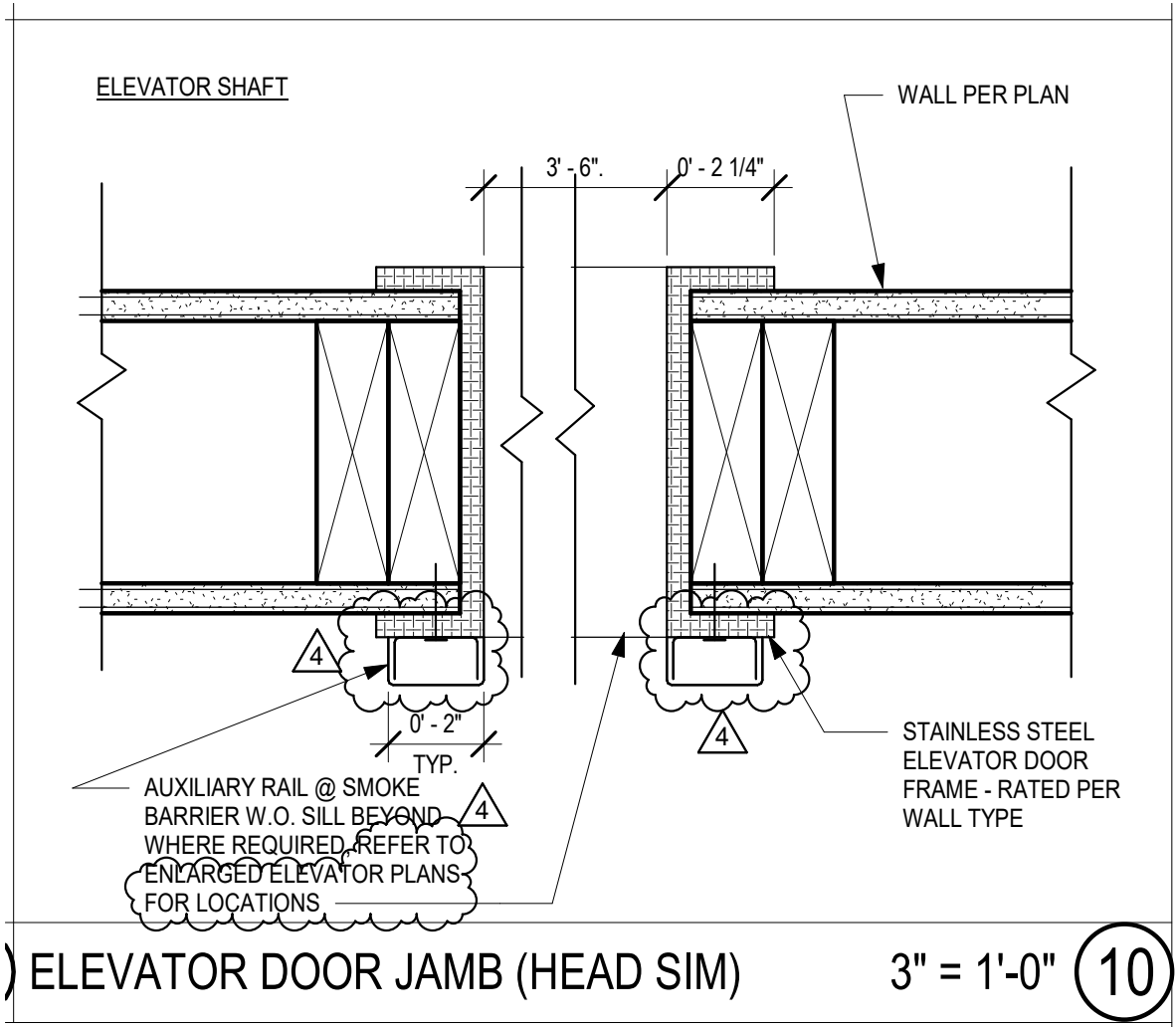
PROBATION HEADQUARTERS
1019 GARDEN STREET, SANTA BARBARA CA 93101

SCALE: NTS.

PROJ. NO: .895.01

DATE: 04/30/2024

SHEET NO:
ASK-A2-7



TITLE:
ELEVATOR DETAILS

REFERENCE SHEET NO: AD-9.0

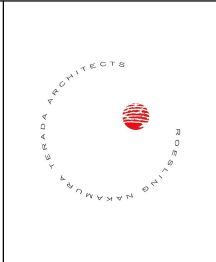
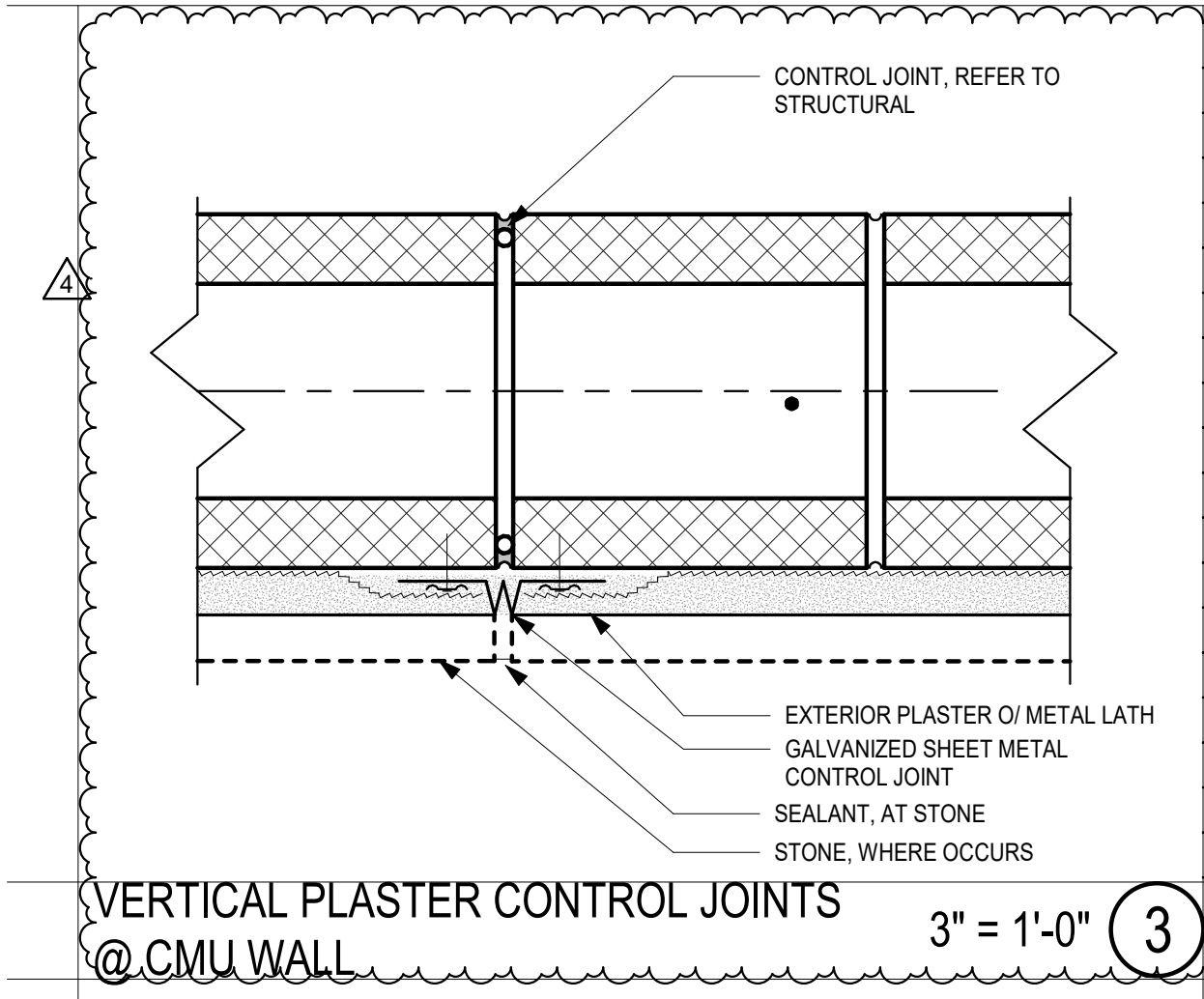
PROBATION HEADQUARTERS
1019 GARDEN STREET, SANTA BARBARA CA 93101

SCALE: NTS.

PROJ. NO: .895.01

DATE: 04/30/2024

SHEET NO:
ASK-A2-10



TITLE:
WALL DETAILS - EXTERIOR

REFERENCE SHEET NO: AD-4.0

PROBATION HEADQUARTERS
1019 GARDEN STREET, SANTA BARBARA CA 93101

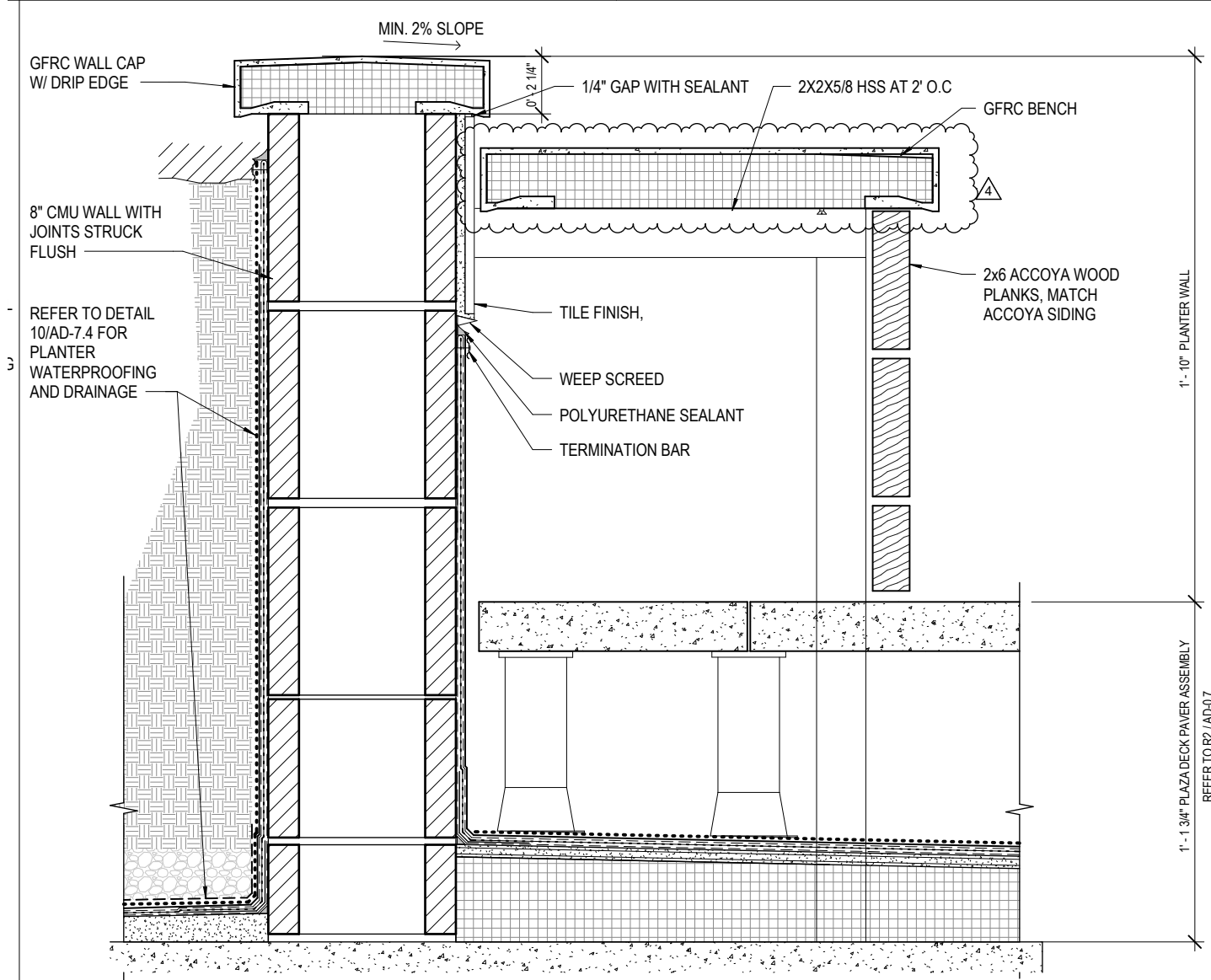
SCALE: NTS.

PROJ. NO: .895.01

DATE: 04/30/2024



SHEET NO:
ASK-A2-8

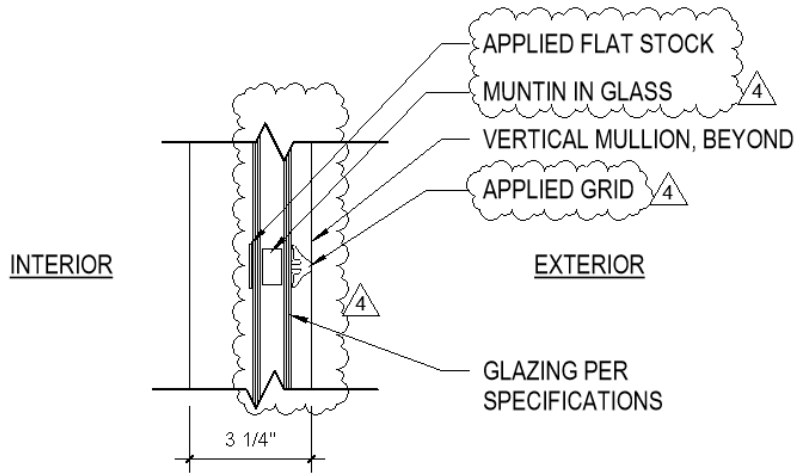
WATERPROOFING



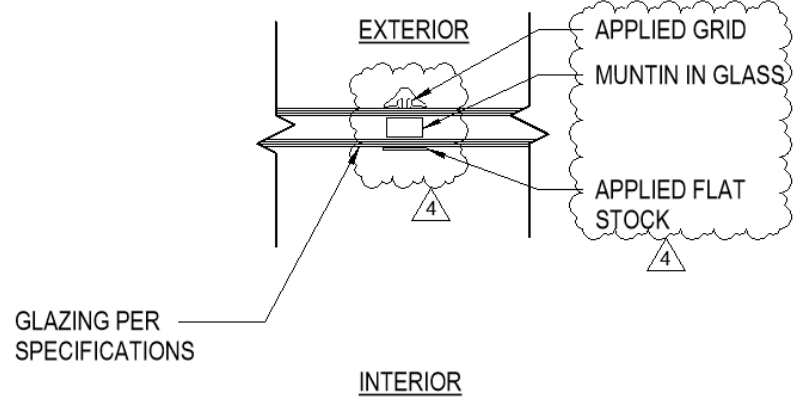
BENCH AT PLAZA DECK PLANTER

3" = 1'-0" (20)

		TITLE: ROOF DETAILS - PLAZA DECK	SCALE: NTS.
		REFERENCE SHEET NO: AD-7.4	PROJ. NO: .895.01
		PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101	DATE: 04/30/2024
			SHEET NO: ASK-A2-9



FIXED HORIZONTAL MUNTIN 3" = 1'-0" **13**



FIXED VERTICAL MUNTIN 3" = 1'-0" **18**



TITLE:
EXTERIOR WINDOW AND LOUVER DETAILS

REFERENCE SHEET NO: AD-5.2

PROBATION HEADQUARTERS
1019 GARDEN STREET, SANTA BARBARA CA 93101

SCALE: NTS.
PROJ. NO: .895.01
DATE: 04/30/2024
SHEET NO:
ASK-A2-10

CONCRETE


1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.
2. REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".
3. CONCRETE MIXTURES SHALL BE DESIGNED BY THE APPROVED TESTING LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED AS INDICATED ON ACI 318, LATEST EDITION.
4. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES

LOCATIONS IN STRUCTURE	STRENGTH (PSI)	DENSITY (PCF)	MAX W/C RATIO
FOOTINGS AND FOUNDATION WALLS	4,000	145	0.45
SLAB ON GRADE	4,000	145	0.45
NORMAL WEIGHT PT CONCRETE DECK	5,000	150	0.45
CURBS, ETC. ¹	3,000	145	0.45
MAT FOUNDATION	5,000	150	0.45 ¹
BEAMS	5,000 ⁴	150	0.45
COLUMNS	5,000	145	0.45
CONCRETE STAIRS	5,000	150	0.45
LIGHTWEIGHT CONCRETE AT STAIR LANDINGS	3,000	115	0.45
LIGHTWEIGHT CONCRETE TOPPING SLABS	3,000	115	0.45
CAISSONS	4,000	145	0.45
ALL OTHER CONCRETE NOT LISTED	4,000	145	0.45

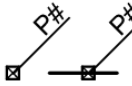
18. CONDUITS INSIDE CONCRETE SHALL BE COORDINATED WITH SEOR. CONDUITS SHALL RUN WITHIN THE MIDDLE THIRD OF THE CONCRETE SLAB, FOUNDATION, COLUMN OR BEAMS

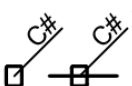
19. FOR THE MAT FOUNDATION, THE CONTRACTOR TO VERIFY THAT TEMPERATURE DIFFERENTIAL BETWEEN THE CORE AND THE SURFACE OF THE MAT DOES NOT EXCEED 35 DEGREE FAHRENHEIT.

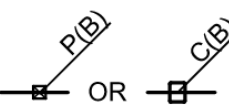
20. REBAR SHALL BE X-RAY PRIOR TO CORING, DRILLING. REBAR SHALL NOT BE DAMAGED DURING CORING OR DRILLING PROCESS.


	TITLE:	SCALE: NTS.
	CONCRETE GENERAL NOTES	PROJ. NO: .895.01
	REFERENCE SHEET NO: S-002	DATE: 04/29/2024
	<p style="text-align: center;">PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101</p>	SHEET NO: SSK-S002-1

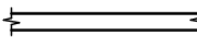
WALL FRAMING LEGEND:

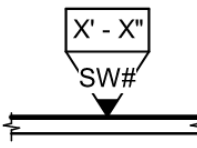

 INDICATES WOOD POST ABOVE. SEE PLAN AN POST SCHEDULE, TYPICAL.

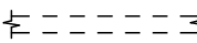
OR
 
 INDICATES STEEL COLUMN ABOVE. SEE PLAN AN POST SCHEDULE, TYPICAL.

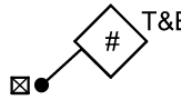

 INDICATES WOOD POST OR STEEL COLUMN BELOW


 INDICATES NON-STRUCTURAL PARTITION WALLS ABOVE PER ARCH. SEE SCHEDULE ON S-601/4



 INDICATES STRUCTURAL STUD WALL ABOVE SEE SCHEDULES ON S-600 SERIES SHEETS.

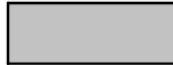

 INDICATES STRUCTURAL SHEARWALL TYPE AND LENGTH ABOVE SEE S-606 SERIES SHEETS.

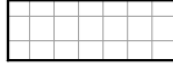

 INDICATES STRUCTURAL CMU BELOW.

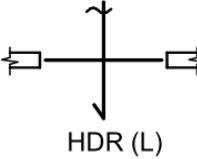

 INDICATES HOLDOWN POST AND HOLDOWN PER SCHEDULE ON S-607. T&B, INDICATES TOP AND BOTTOM

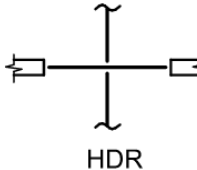
R* INDICATES SPECIAL CONNECTION PER:
 5/S-607 AT CONDITIONS WITH NO CMU WALL BELOW
 6/S-607 AT CONDITIONS WITH CMU WALL BELOW

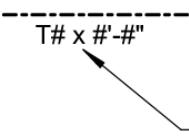

 INDICATES BUILT-UP SLAB PER 6/S-301

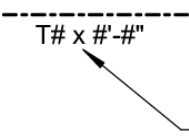

 INDICATES DEPRESSION ON CONCRETE TOP OF SLAB



 INDICATES DEPRESSION IN WOOD FRAMING



 INDICATES STRUCTURAL STUD WALL WITH DOOR HEADER SEE SCHEDULES ON 4/S-601, UNO.



 INDICATES STRUCTURAL STUD WALL WITH FLUSH DOOR HEADER OR FLUSH BEAM, SEE SCHEDULES ON 4/S-600, UNO.

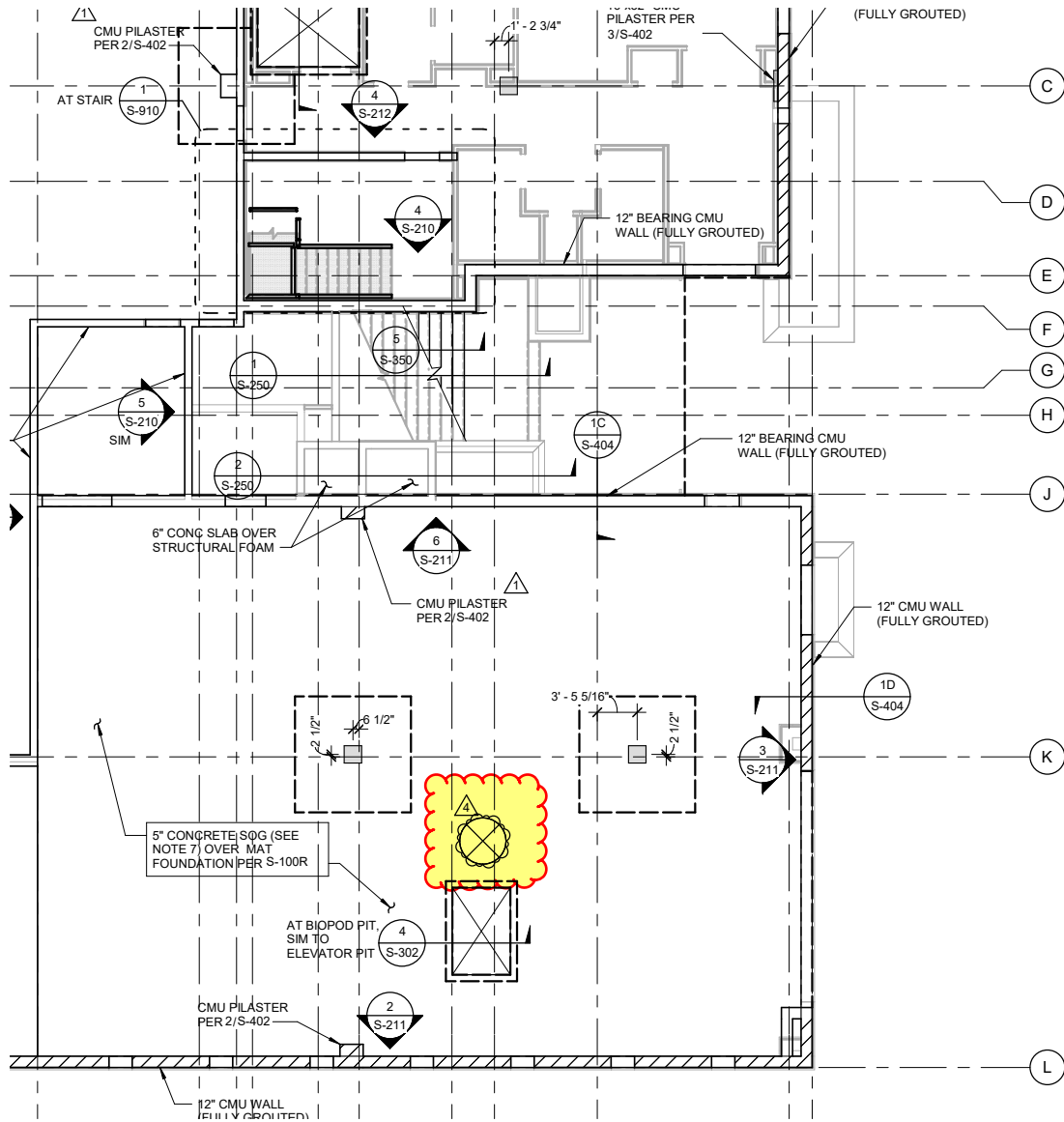

 INDICATES DRAG STRAP PER SCHEDULE ON 5/S-611


 INDICATES STRAP LENGTH IF DIFFEREN THAN DETAIL


 INDICATES STEPPED FOOTING PER 5/S-611

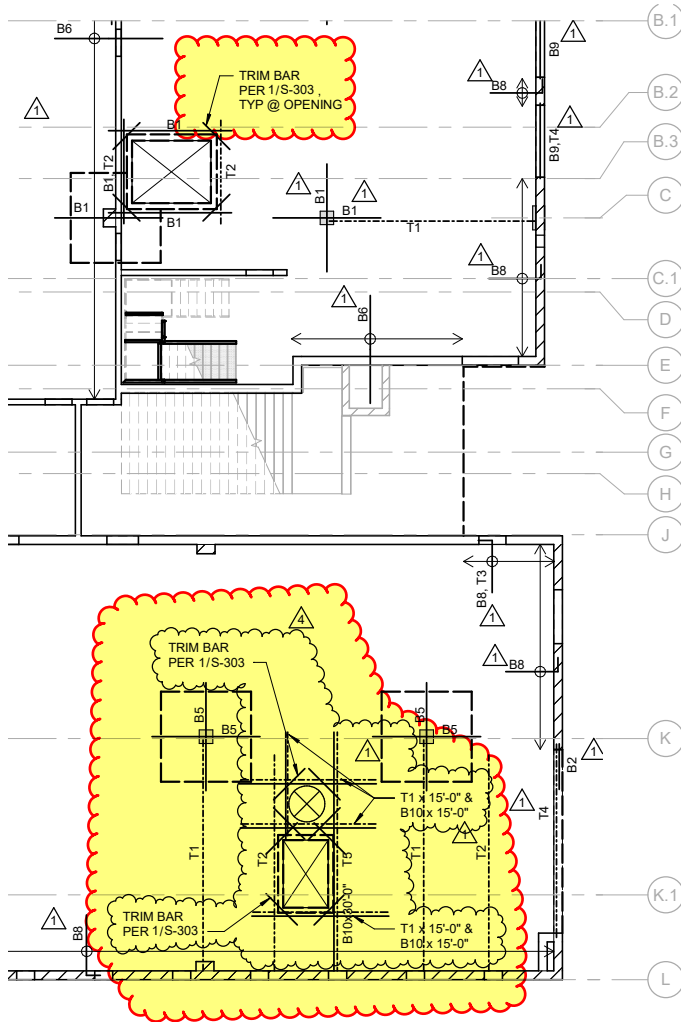

 INDICATES ROOF TOP SAFETY TIE-BACK PER 2/S-800

	TITLE: SHEAR WALL ELEVATION	SCALE: NTS.
	REFERENCE SHEET S-101A, S101B, S-102A, S103A, S104A, S-105	PROJ. NO: .895.01
	PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101	DATE: 04/29/2024
		SHEET NO: SSK-S100-1



PARTIAL FOUNDATION PLAN

	TITLE:	SCALE: NTS.
	ADDITION OF MANHOLE TO MAT FOUNDATION	PROJ. NO: .895.01
	REFERENCE SHEET NO: S100A	DATE: 04/29/2024
	PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101	SHEET NO: SSK-S100A-1

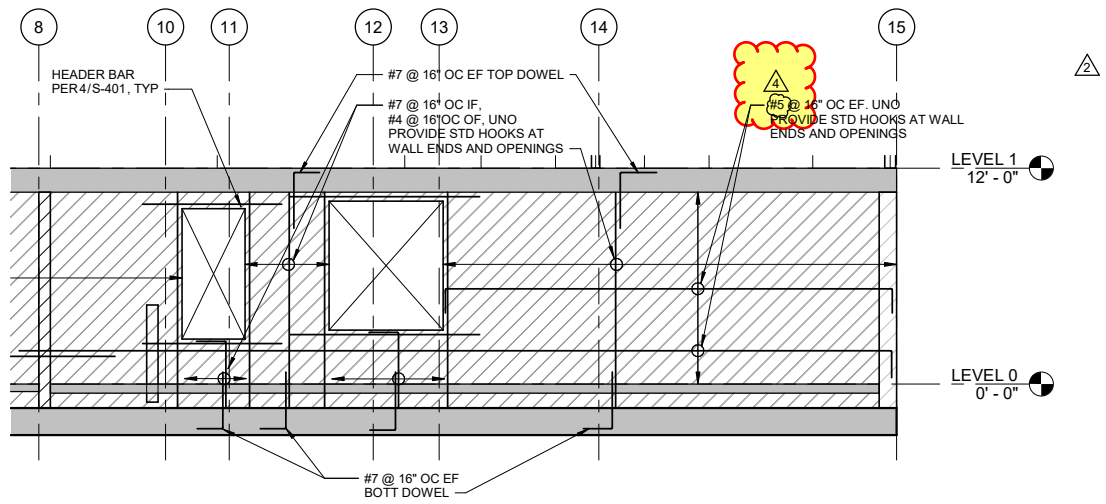


MARK	TOP BAR (# OF BAR x LENGTH "L" x SPACING)	NOTES
T1	(2) #8	-
T2	(3) #8 x 20'-0"	-
T3	#8 x 4'-6" x 24" OC	HOOKED BAR, SEE NOTE #6
T4	(6) #8	-
T5	(3) #8 x 30'-0"	-

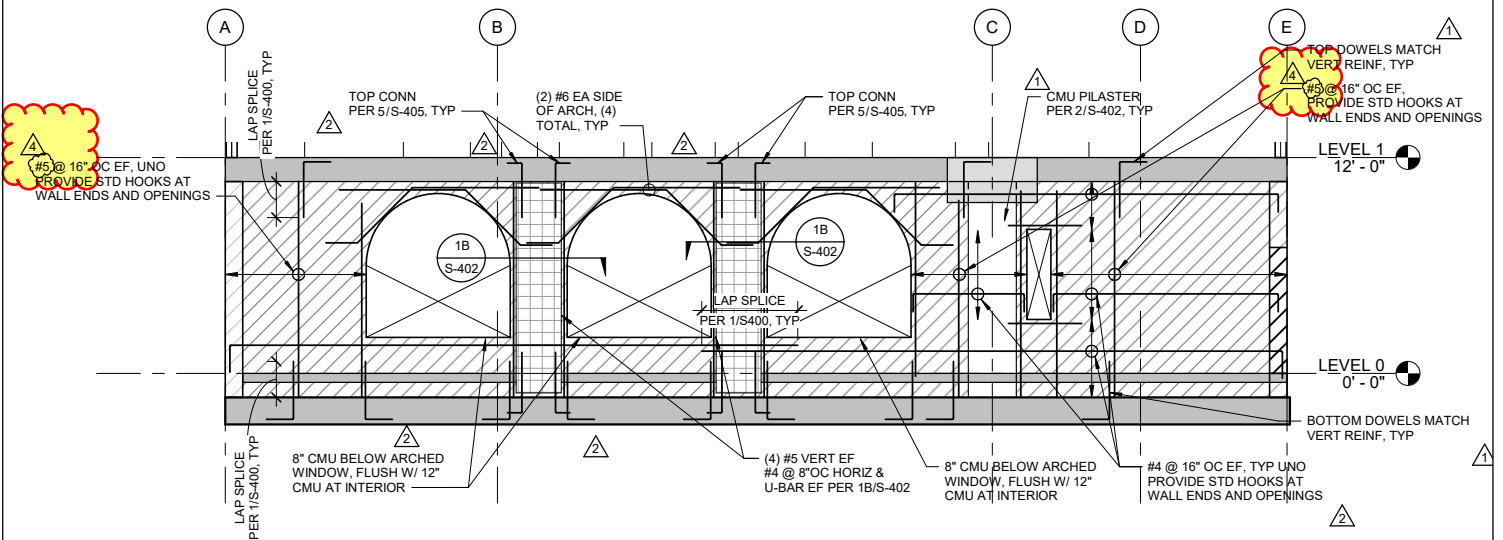
MARK	BOTTOM BAR (# OF BAR x LENGTH "L" x SPACING)	NOTES
B1	(5) #8 x 20' - 0"	-
B2	(6) #8 x 12' - 0"	-
B3	(9) #8 x 20' - 0"	-
B4	(12) #8 x 12' - 0"	-
B5	(14) #8 x 23' - 0"	-
B6	#8 x 20' - 0" x 12" OC	-
B7	(3) #8 x 10' - 0"	HOOKED BAR, SEE NOTE #6
B8	#8 x 3' - 6" x 24" OC	HOOKED BAR, SEE NOTE #6
B9	(7) #8	-
B10	(3) #8	-

PARTIAL FOUNDATION - ADDED REINFORCEMENT PLAN


	TITLE:	SCALE: NTS.
	ADDITION OF MANHOLE TO MAT FOUNDATION	PROJ. NO: .895.01
	REFERENCE SHEET NO: S100R	DATE: 04/29/2024
	PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101	SHEET NO: SSK-S100R-1

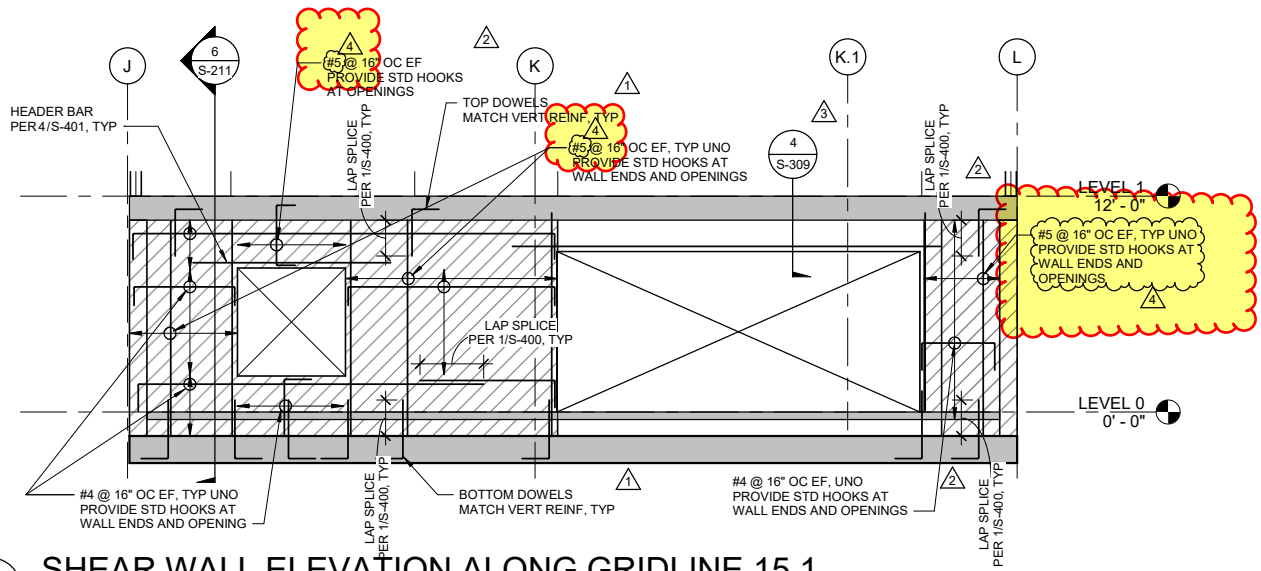


1 SHEAR WALL ELEVATION ALONG GRIDLINE A



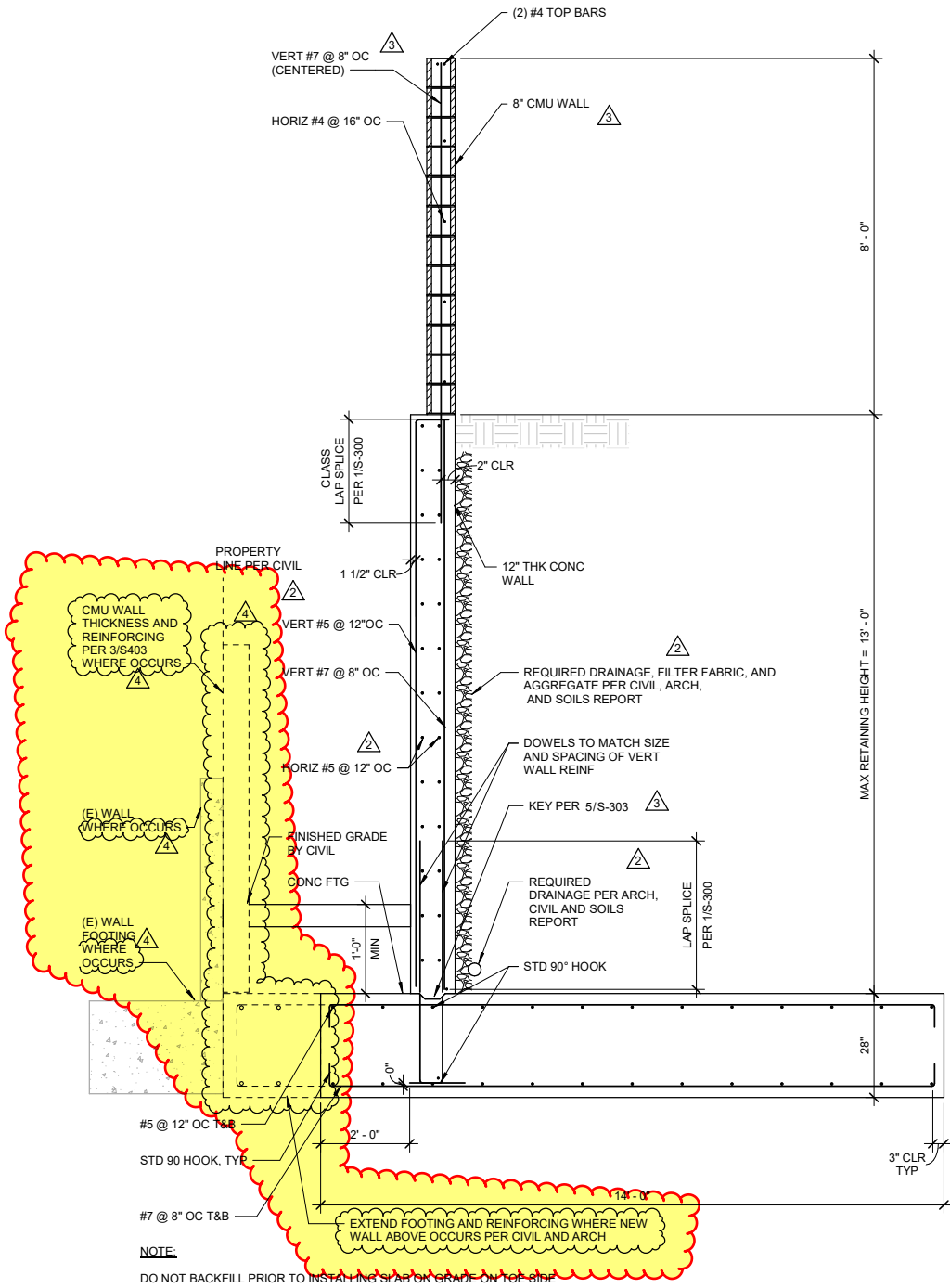
3 SHEAR WALL ELEVATION ALONG GRIDLINE 15

	TITLE: SHEAR WALL ELEVATION	SCALE: NTS.
	REFERENCE SHEET NO: S-210	PROJ. NO: .895.01
	PROBATION HEADQUARTERS	DATE: 04/29/2024
	1019 GARDEN STREET, SANTA BARBARA CA 93101	SHEET NO: SSK-S210-1

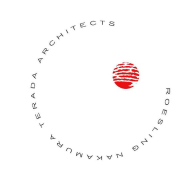


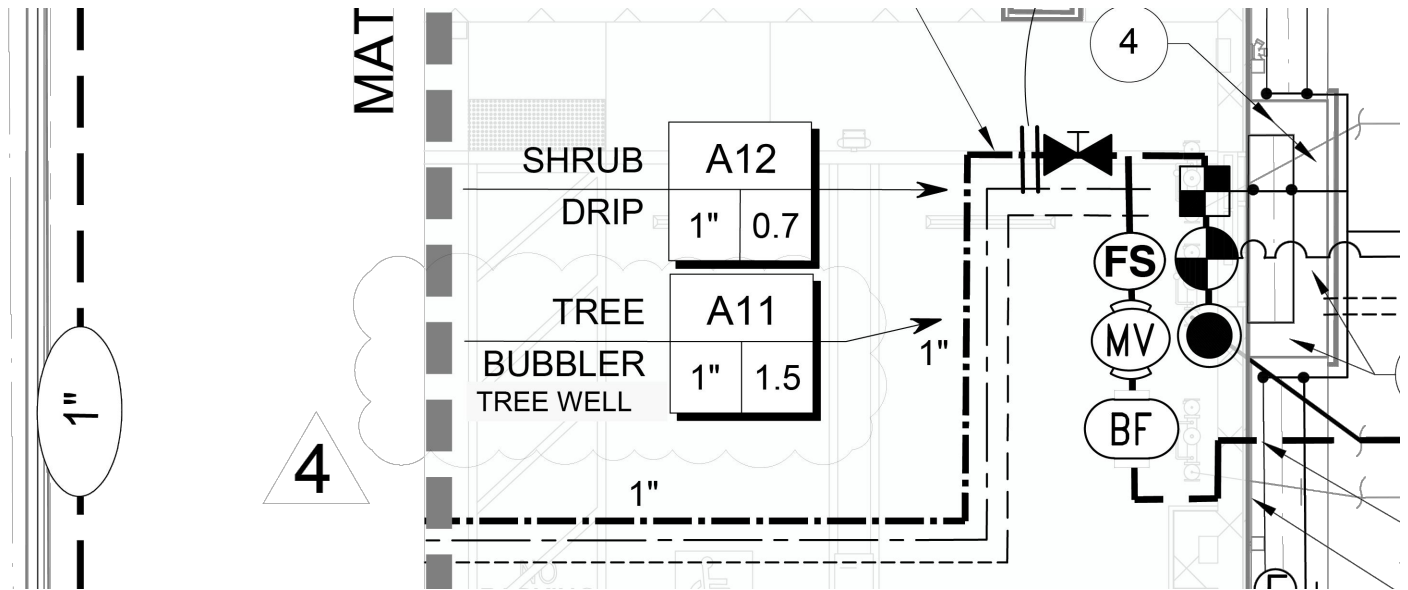
3 SHEAR WALL ELEVATION ALONG GRIDLINE 15.1

	TITLE:	SCALE: NTS.
	SHEAR WALL ELEVATION	PROJ. NO: .895.01
	REFERENCE SHEET NO: S-211	DATE: 04/29/2024
	PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101	SHEET NO: SSK-S211-1



5 CMU FENCE WALL DETAIL

	TITLE: REVISION TO CMU FENCE WALL DETAIL	SCALE: NTS.
	REFERENCE SHEET NO: S-403	PROJ. NO: .895.01
	PROBATION HEADQUARTERS 1019 GARDEN STREET, SANTA BARBARA CA 93101	DATE: 04/29/2024
		SHEET NO: SSK-S403-1



	DRIP FLUSH VALVE (MANUAL OPERATION)
	DRIP OPERATION INDICATOR
	TREE MICRO-SPRAY (2 PER TREE)
	TREE BUBBLER IN TREE WELL (2 PER TREE)
	SUB SURFACE DRIPLINE
	ON SURFACE DRIPLINE

4



3916 Normal Street
San Diego, CA 92103
619.294.4477 | www.ktua.com

Roesling Nakamura Terada
Architects

285 N. Ventura Ave.#102
Ventura, California
P805.626.5330
F805.626.5350
www.RNTarchitects.com

TITLE: **AT GRADE LANDSCAPE IRRIGATION
PLAN ENLARGEMENTS**

REFERENCE SHEET NO: LI-1.1.2

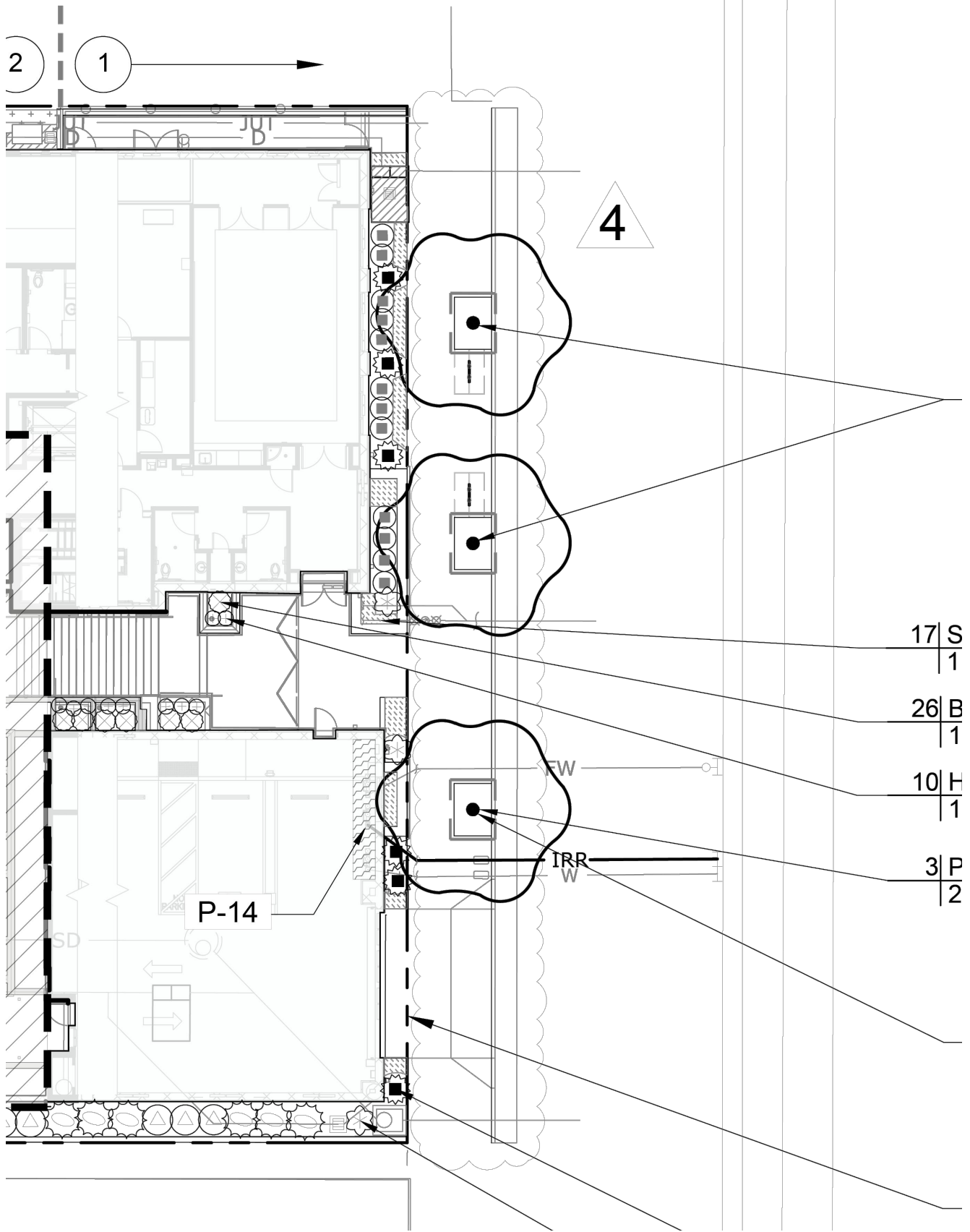
PROBATION HEADQUARTERS
1019 GARDEN STREET
SANTA BARBARA, CA 93101

SCALE: As Indicated

PROJ. NO: 895.01

DATE: 4/29/2024

SHEET NO:
ASK-L1-1



3916 Normal Street
San Diego, CA 92103
619.294.4477 | www.ktua.com

Roesling Nakamura Terada
Architects

285 N. Ventura Ave.#102
Ventura, California
P805.626.5330
F805.626.5350
www.RNTarchitects.com

TITLE: **MAIN LEVEL PLANTING PLAN**

REFERENCE SHEET NO: LP-1.1.1

PROBATION HEADQUARTERS

1019 GARDEN STREET
SANTA BARBARA, CA 93101

SCALE: As Indicated

PROJ. NO: 895.01

DATE: 4/29/2024

SHEET NO:

ASK-L4-1

END OF ADDENDUM

RESPONSE TO QUESTIONS START ON NEXT PAGE

RESPONSE TO RFI'S

Question #1: Do you have a copy of the Mandatory Pre-bid sign-in sheet?

Response: See Addendum #1 dated 4/12/24.

Question #2: Are all doors and windows in their respective schedules to receive roller shades?

Response: Refer to item 60 and 61 above. Window Schedule updated to include Roller Shades in Remarks noted as RS.

Question #3: Are all the headers in the building per 3/S600 (the headers overlay starts at S-102A but this is for the 2nd floor not the first. Where is the first-floor header overlay). Please confirm

Response: Refer to item 72 above. Legend updated to clarify. The sheet S102 shows the headers below Level 2 (header for walls between Level 1 and Level 2), the walls above (between Level 2 and Level 3) are shown solid, and walls below (between Level 1 and Level 2) are shown dashed. The Low Headers "HDR (L)" are per detail 3/S600, and all other headers are per 4/S-600 unless specifically called on the plans.

Question #4: Sheet AS-7.0.2 Gate details:

- 1) What is the material to be used to fabricate the gate frames?
- 2) What are the dimensions of the gate Frames?
- 3) What is the infill material to used on the gates?
- 4) Do all gates/fencing get painted?

Response: Refer to item 47 above. Details updated to provide correct information that corresponds to the gate schedule on AS-1.1.0 and relevant specification sections.

Question #5: On RFP page 93 & 95 of 521, Section 2.2.5 & 3.2.1 asks general contractors to provide facilities for owner's representatives, architects, and engineers. Please confirm this does not mean that the general contractor needs to provide trailer space for them

Response: Refer to item 15 above. Added information to Temporary Facilities Specification clarifies requirements.

Question #6: On RFP page 204 of 521, Section 53. Please provide clarification of the on-site fire watch. Is the contractor to provide fire-watch at 24 hours, seven days a week during construction?

Response: Refer to item 4 above. The section was revised to clarify referencing code.

Question #7: Detail 15 of AD-2.0 and 16/AS-7.0.0 call out Bentonite waterproofing below the elevator pit and the site retaining wall. However, there isn't a specification section for the Bentonite waterproofing. Please provide the specifications to instruct bidders on this

Response: Refer to item 10 above. Bentonite waterproofing specification added to clarify requirements.

Question #8: Detail F3 & F4/AD-0.5 are calling for a compacted sand fill between the topping slab and the structural foundation. However, the depth of the sand layer isn't specified in the details. Please specify the thickness of the sand layer. Please clarify the top of the mat footing.

Response: Sand Distance will vary depending on elevations noted on A-1.4.0 and coordinated with Top of Mat Slab. Refer to Civil sheet C-006 Section K showing top of mat slab at 57 feet.

Question #9: E-0.5, The solar electric system summary has indicated a rapid shut down 2:1 APSystem RSD. However, the PV panel shutdown schematic shows TIGO module shutdown device. Please clarify which shut down system is the BOD.

Response: Refer to item 85 above. Sheet E-0.5 has been updated to include the correct PV panel shutdown schematic using the APSmart RSD-D. See revised sheet E-0.5 attached.

Question #10: E-0.5, The solar electric system summary has indicated CPS (Chint power system) to be the BOD inverter model. Is Solar Edge inverters and Optimizers RSD an acceptable alternative? This alternative can provide up to 30 years warranty in lieu of the 25 year warranty listed on the summary

Response: PV System is a delegated design and the equipment specified in the basis of design has been selected to provide minimum standards for quality and efficiency. Alternates may be considered as long as they meet the minimum requirements set forth by the basis of design and are UL 1741 SB certified per utility company requirements.

Question #11: E-0.5, Please confirm that Znshine, Jinko, and Canadian Solar with 550W mod modules are acceptable substitutes for the Sunpower 450W model.

Apr 23, 2024 9:23:07 AM PDT

Response: PV System is a delegated design and the equipment specified in the basis of design has been selected to provide minimum standards for quality and efficiency. Alternates may be considered as long as they meet the minimum requirements set forth by the basis of design.

Question #12: E-0.5, we are recommending to upsize 150KW/372KWH as the energy storage system inverter. Please confirm this is necessary for all bidders.

Response: The basis of design for all bidders will remain the 50kW / 372kWh system as that meets the minimum code requirements.

Question #13: AS-1.1.0 & AS-1.1.1. Keynote 32000D indicates we are to provide 8' tall welded wire anti-climb fence. However, no details are provided for this fence. Please provide details associated with this fencing scope.

Response: Refer to items 23 and 46 above. Detail added, specification of fencing clarified

Question #14: Please confirm there is no requirement for the fire and smoke curtains on the elevator doors

Response: Refer to items 11, 49,52, 53, 67, 86, 87, 88 above. Smoke curtains required at locations indicated. Specification added

Question #15: Please confirm if the city and state are sufficient information for the designated subcontractor location information. Or is the general contractor required to provide the full address listed under the California license

Response: Confirming that City and State is acceptable.

Question #16: Please confirm that the county of Santa Barbara will provide testing, special inspections, and Title 24 compliance report for this project

Response: The County is hiring an Inspector of Record (IOR) and a Special Inspection and Material Testing (SIMT) firm for the Project. The Contractor will be required to coordinate all IOR and SIMT services with the Construction Manager. Additional testing and inspections may be required by the contractor as indicated in the technical specifications.

Question #17: 01 50 00 Temporary Facilities and Controls. Please clarify if a soundproof blanket is required for the noise control requirement of this project. If so, please confirm the product listed in the link below is sufficient.

https://www.acousticalsurfaces.com/curtan_stop/sound_blanket.htm

Response: Confirming the sound blanket linked by the bidder, used properly, would satisfy the requirement listed in IS-MND Mitigation Measure N-2 and Spec. Section 01 50 00.

Question #18: Please confirm if it is acceptable to reproduce the designation of subcontractor listing with an excel file that reflects the same information requested on the document in Addendum 01.

Response: Confirming it is acceptable to replicate the form.

Question #19: 32 31 19 Decorative Metal Security Fences & Gates. On page AS-7.0.2, the details show both aluminum posts and HSS posts. The specification calls for galvanized steel frames and bracing. Please confirm the contractor is to provide the decorative metal fences with HSS posts and infill with perforated aluminum panels to match the drawing details.

Response: Refer to item 47 above. Details updated to clarify materials and coordinated with schedule on AS-1.1.0

Question #20: 01 31 00 Project Management and Coordination. Please confirm that BIM file incorporation is only required for architectural, mechanical, and structural disciplines, provided by architect and design engineers. MEP subcontractor's BIM coordination is not required.

Response: Design Team will provide Arch, Structural and Mechanical Models for coordination subject to a digital file waiver, Plumbing and Electrical not required, but are subject to other requirements of coordination drawings.

Question #21: Please clarify missing portions of pages 4 and 12 of specification section 033000. Also part of the spec section 033000 indicates 24 pages; however, there are only 21 pages?

Response: Refer to item 18 above. A document formatting issue caused the page numbering to display improperly and add 2 blank pages. Section has been attached with formatting corrected, but no change in content

Question #22: Please provide specifications for the 1 1/2" gypcrete over sound reduction mat per floor assembly F1 on AD-0.5.

Response: Refer to items 9 and 64 and above. Specification added and detail clarified thickness of gypcrete.

Question #23: Please clarify the use of high-lift grout. Spec 042200 indicate the use of high lift grout; however, drawing S-002 under masonry note 12 says "High lift grouting is not permitted".

Response: Refer to item 19, 20. No high lift grouting is allowed.

Question #24: In specification section 051200, item 1.4.B, please clarify if it is acceptable to be LA City certified and not AISC certified. There is not much steel on the job and this limits the subcontractor pool.

Response: Refer to item 21 above. Fabricator may be LA Certified.

Question #25: Please clarify where specification section 055313 - Bar Grating applies and is located on the job.

Response: Refer to item 48 above. Bar grating locations added.

Question #26: Please clarify the CMU retaining walls at the property line on drawing C004 - note 13 as follows:

- a. On drawing C004, SE of Private Court Drawing at the bottom of the page.
- b. On drawings C004 & C005 from the NE side of the Private Court to the Garden Street property line.

Response: Refer to item 37, 80 above. Retaining conditions clarified

Question #27: Please clarify any control/expansion joints in the CMU walls.

Response: Refer to items 54, 55, 56, 57, 58, 59 above. Joints added to elevations for clarity.

Question #28: Please provide missing bollard detail 8/AS-7.0.0 as called out on AS-1.1.0 as item 32391A on AS-1.1.0.

Response: Refer to items 40 and 45 above for bollard detail

Question #29: Please clarify where detail 14/AD4.2 applies?

Response: Refer to 6/A-4.2.5 for detail reference.

Question #30: Please clarify location(s) of HSS Post type C2?

Response: Refer to items 71, 73, 74, 75, 76, 77. C2 removed from schedules,

Question #31: Please clarify the extent and limits of new fencing along the West property line? Not clear on AS1.1.0.

Response: Fencing not required where adjacent building at property line and new fence at gate with property shown. Large Break in Fencing as shown is intentional.

Question #32: Please provide the top of mat foundation elevation.

Response: Refer to Civil Sheet C-006 Section, Top of Mat Foundation at 57 Ft

Question #33: Please confirm the mat foundation will not have thermal control requirements.

Response: Refer to item 68 Above. Mat foundation can be poured in a single pour as indicated in Question 35. GC to verify that temperature differential between the core and the surface of the mat does not exceed 35F

Question #34: Please confirm the 6" aggregate base below the vapor barrier at slab on grade shown on detail 1/S-301 is required and not required below the mat foundation as shown on types F3 & F4 sheet AD-0.5.

Response: See the soils report for all vapor barrier requirements. Detail 1/S-301 provides requirements for the Vapor Barrier per soils report. Vapor Barrier shall be below the mat foundation per architectural drawing as shown on types F3 & F4 sheet AD-0.5.

Question #35: Please confirm the mat foundation and slab on grade can each be poured in one single pour without construction joints.

Response: It is acceptable to pour the mat foundation and slab on grade each in single pour (the slab on grade and mat foundation cannot be poured at the same time). For slab on grade add control joint per requirements of detail 4/S-301.

Question #36: For 6/S301. Please advise if EPS 15 styrofoam is acceptable for the built-up slabs and foundation 2" gap filler.

Response: It is acceptable to use EPS 15 Styrofoam for the built-up slabs. For foundation gap filler foam, provide 50% compressible foam.

Question #37: Please advise if it is acceptable to use a curing compound (E-Cure for example) in lieu of continuous water curing.

Response: Curing Compounds and other methods are covered under 03 30 00 Paragraph 3.8 and allowed as specified.

Question #38: Please confirm this project does not require Emery Aggregates as referenced in specification section 033000-2.4. If required, please provide the locations and extents.

Response: Floor and Slab Treatments under 2.4 not scheduled and not required.

Question #39: Please confirm vapor emissions controls are not required on this project.

Response: Refer to item 12 above for specification. Moisture Emissions Control will be required at locations where Concrete slabs do not pass moisture testing requirements for Resilient Flooring.

Question #40: Please provide the extents of the sand fill located at the elevator pit shown no detail 4/S-302.

Response: Sand fill is to be provided between the mat foundation and the concrete slab to achieve elevations changes indicated on sheet A-1.4.0. See section 1/S-404 for details of slab and mat foundation at the CMU wall.

Question #41: On spec section 28 10 00 ELECTRONIC ACCESS CONTROL SYSTEM (EACS), (pages 5 & 7 of 15). Para 2.2-A-6 (pg-7). The paragraph reads: ' The contractor shall use existing STCs where shown on the drawings'.

Are we supposed to salvage existing STCs from an existing building to be reused in the new building?

Response: Refer to item 24 above. Line deleted, all STC cabinets and equipment within shall be new

Question #42: On spec section 28 10 00 ELECTRONIC ACCESS CONTROL SYSTEM (EACS), (pages 5 & 7 of 15). Para 2.2-F (pg-7). The paragraph reads: 'Access control readers shall be configured to read the Tishman Speyer custom access credentials.' Please confirm that the specified 'DSX' access control system and Tishman Speyer have a handshake and are compatible?.

Response: Refer to item 25 above. Conflicting information removed

Question #43: On spec section 28 23 00 VIDEO SURVEILLANCE SYS. Para 1.2-A (pg-1 of 13) The para reads: 'Video surveillance system (VSS) and Security Intercom sys (SIS) communicating over the existing County of Santa Barbara Probation Office Building network infrastructure'. Please clarify the part of "the existing" system infrastructure for re-use.

Response: Refer to item 27 above. Line removed and updated with "newly installed network infrastructure".

Question #44: On spec section 28 23 00 VIDEO SURVEILLANCE SYS. Para 2.2-A (pg-10 of 13) reads "The BOSCH VMS most current version' and para 2.2-C DSX client workstation configured as required to support the workstation requirements of the project".

Please confirm that BOSCH and DSX systems are compatible with each other.

Response: Refer to item 28 above. DSX is incorrect information, removed and replaced with "Bosch VMS most current version available at time of purchase, no acceptable equal"

Question #45: On spec section 28 23 00 VIDEO SURVEILLANCE SYS. Para 15 (pg-6 of 13) External system integration. The system (specified BOSCH VMS), shall integrate to the Software House C. Cure 9000 access control system.

If the specified access system is DSX, please clarify the location and application of Software House C.Cure. Are there two different access control systems to which the BOSCH vms has to integrate?
Response: Refer to item 29 above. C-Cure shall not be used on this project. Item removed from specs. Project shall be DSX and Bosch VMS

Question #46: Please provide specification 11 24 23 Roof safety specialties for detail 02/S-800 tie-back anchor on the roof.

Response: Refer to item 13 above. Specification and product clarified.

Question #47: On page AD-0.2. Wall type W11 calls for a 7/8" hat channel attaching to rigid insulation which will not be feasible. Please provide an alternate method to attach the hat channel

Response: Fasteners for Hat Channel required to attach to CMU substrate through insulation.

Question #48: Please confirm kitchen appliances such as microwave and refrigerator are OFOI. If that's not the case, please provide the specifications for the appliances that are CFCI.

Response: Refer to Equipment Schedule on A-1.0.0

Question #49: Please clarify footing and CMU walls for the two (2) planters located along Garden Street on both sides of the main pedestrian entrance (AS1.1.1; 1/A3.1.1; 17/AS7.0.1).

Response: Refer to detail 1/ S-405 for footing. Heights of planters are approximately 22" above FF

Question #50: Please confirm that the city will be utilizing OCIP for insurance program

Response: The County will be providing an Owner Controlled Insurance Policy (OCIP). See Attachment 3 and 4 of the Instructions to Bidders for Contractor's requirements.

Question #51: On April 19th I email a substitution request to Shane Mahan at smahan@countyofsb.org. Since this Public Purchase software doesn't let you upload files. Is this the correct contact to send substitution request to? If not, please provide correct email address.

Response: Request was received refer to item 22 above.

Question #52: Please indicate how the VRF system will comply with CMC 1104.2 Refrigerant Concentration Limit.

Response: The mechanical system for the building utilizes the ceiling cavity as a plenum which allows for the volume of the ceiling plenum cavity to be included in the volume/concentration calculations.

Question #53: Please confirm that upsizing odd duct sizes (7", 9", 11", etc.) to next even size is acceptable.

Response: No exceptions taken. Contractor is responsible to verify fitment and space allocation when making alterations to duct sizing.

Question #54: Tags are missing from Second Floor Fan Coil schedules on Sheet M0.04. Please provide tags for this equipment.

Response: Refer to item 81 above. Schedules added.

Question #55: Drawings P - 1.0.0 & C - 007 have conflicting information regarding storm drain piping and sizing, routing and equipment. Drawing C - 007, Note # 11 calls out a biopod biofilter unit, Note # 13 calls out a pour in place concrete drainage structure, Note # 7 calls out a 18" catch basin, Note # 8 calls out a 48" Pre Cast manhole. None of these notes are called out on P - 1.0.0 and the pipe sizing is not shown for the storm drain mains on P - 1.0.0. The storm drain routing on Drawing P- 1.0.0 does not match the routing shown on C - 007. Please confirm scope for the storm

drain piping and equipment-structures shown inside the footprint of the building on drawing C - 007 is part of the civil scope.

Response: Refer to items 38 and 84 above. Missing equipment shown on civil sheet C-007 has been coordinated and incorporated into the plumbing plans.

Question #56: Drawing C- 008 Note # 8 calls out 2 - 48" precast manholes, please confirm these are part of civil scope. Note # 12 calls out 2 - 8" wide, pre-sloped trench drains with traffic rated grates. Please confirm these trench drains are part of the civil scope.

Response: All Storm drain pipe sizes/materials/inverts, outside the building footprint, are called out on and are part of Civil plans. Drainage structures & devices outside the building footprint and several devices/structures within the building footprint pertaining to Storm water quality and conveyance of runoff from back of project to street are called out and are part of the Civil plans.

Question #57: Please confirm if isolation valves are required at refrigerant pipe connections to the branch selector boxes.

Response: Refer to item 82 and 83 above. Confirmed. Provide isolation valves on liquid/suction runouts from branch box to fancoil(s) throughout.

Question #58: Please confirm if wire mesh screen will be required for all Fan Coils and ERV that have open ended returns.

Response: Contractor may choose to provide at their own discretion. Open end returns are provided with filters to obstruct access to the fan(s). Wire mesh screens are NOT required.

Question #59: Will an encroachment permit be required for the UG trench work on Garden street? If an encroachment permit is required, who is responsible for the design, cost and procurement?

Response: The County has designed and submitted plans for an Encroachment Permit for ALL Right-Of-Way improvements with the City of Santa Barbara. See sheets 1-5 from ECG titled CITY OF SANTA BARBARA, COUNTY OF SANTA BARBARA PROBATION HEADQUARTERS, 1019 GARDEN STREET, SANTA BARBARA, CA 93101. The County will pay for the Master Encroachment Permit (MEP) and any Work Order Permits under the MEP. The Contractor will be required to pick-up and sign for the permits. The Contractor is responsible for ALL work in the Encroachment Permit including Traffic Control Plans (design/engineering, submitting to the City of Santa Barbara, coordination, and implementation). The Contractor is responsible for coordinating ALL work in the Encroachment Permit with the City of Santa Barbara and County of Santa Barbara.

Question #60: Are there any SCE, Frontier or Cox engineered drawings available showing the added UG boxes required to meet the minimum turn radius for each system on garden street?

Response: Utility company drawings are not available yet. Please refer to sheet ES-1.1.0 and Exhibit 1 – Offsite Electrical Feed for the assumed infrastructure that will be required. The minimum radius for sweeps shall be as follows per utility company requirements: 36" for 3" conduits and smaller, 48" for 4" & 5" conduits, and 60" for 6" conduits.

Question #61: For the Portland Cement Plaster / Stucco assembly over framed walls with rigid continuous insulation, is the intention to use a smooth acrylic finish over a leveling and reinforcing coat with fiberglass reinforcing mesh to help minimize potential cracking of the stucco system?

Response: Refer to item 35 above. reinforcing mesh is required and finish coat is intended to be a smooth acrylic finish.

Question #62: Aluminum Muntin Windows detail 13,18/AD5.2 indicates a True Historical Divided Lite type Muntin. Spec section 085113 article 2.4B calls for "simulated True Muntins". Please clarify which muntin is used for this project.

Response: Refer to item 65.1. Detail revised to match specification.

Question #63:The Bid Bond Form provided in addendum 1, on the second page has "signature of Principle" twice. The second line I am assuming is supposed to be the signature of our surety. Please advise.

Response: Confirmed, see revised Bid Bond form for use under Item 7 above.

Question#64: Per the Notice to Bidders, Final Contract Completion is 754 days from the effective date of the NTP. Additionally, spec 01 32 14A states that Final Completion is 766 days from the effective date of the NTP. Please advise if the 754 days to Final, is the correct duration.

Response: Confirming 754 calendar days to Final Completion. Refer to item 14 above.

END OF QUESTIONS