

September 23, 2025

Addendum No. C

To the contract documents for NORTH VERDEMONT ELEMENTARY SCHOOL, DSA No. 04-122168

For the SAN BERNARDINO CITY SCHOOL DISTRICT

LPA Project No.: 30899

## NOTICE TO BIDDERS

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This addendum forms a part of the contract and modifies the original DSA approved documents dated 12.14.2023. It is intended that all work affected by the following modifications shall conform to related provisions and general conditions of the Contract of the original drawings and specifications. Modify the following items wherever appearing in any drawings or sections of the specifications. Acknowledge receipt of Addendum No. C in the space provided on the Bid Form. Failure to do so may subject to disqualification.

### Changes to Drawings

- |                   |  |
|-------------------|--|
| <b>Item No. 1</b> | G1.02 – SITE ACCESSIBILITY PLAN<br>a) Revised '(E)' from bicycle storage note to clarify that it is now part of the scope  |
| <b>Item No. 2</b> | A4.01 – ADMIN BUILDING ENLARGED RESTROOM PLAN<br>a) Added keynote 09.08 to the legend and elevations to provide more information about the new tile that will be installed where accessories are being removed and relocated.  |
| <b>Item No. 3</b> | A8.01 – EXTERIOR WATERPROOFING DETAILS<br>a) Details are not relevant, so they have been crossed out as 'Not Used'. Refer to landscape drawings and architectural sheet A8.11 for waterproofing details  |
| <b>Item No. 4</b> | S0.01 – GENERAL NOTES<br>a) Revised note to remove reference to geotech report, which we do not have for this project  |
| <b>Item No. 5</b> | S2.01 – FOUNDATION AND ROOF FRAMING PLANS<br>a) Revised Foundation Plan note 5.  |
| <b>Item No. 6</b> | S6.01 – TYP FOUNDATION AND SOF DETAILS<br>a) Revised note in detail 1/S6.01 regarding the geotech engineer   |
| <b>Item No. 7</b> | C0.01 – DEMOLITION PLAN<br>a) Added keynote 08 to remove existing fence gate and Aiphone Conduit at existing parking lot perimeter.<br>b) Added keynote 09 to cut existing fence mesh and pole to 42" height.<br>c) Added keynote 10 to remove existing bike rack.<br>d) Added keynote 11 to remove and replace existing gutter.<br>e) Added asphalt pavement demolition for new storm water trenching.<br>f) Added demolition scope near the accessible parking lot.<br>g) Updated demolition scope to remove existing curb and concrete pavement up to the existing retaining wall to the northwest of existing building.<br>h) Added protection notes for surrounding area to remain as is. |





- i) Added protection keynote 69 and 70.
  - j) Added demolition keynote 12 to remove existing retaining wall, but protect the footing to be reused.
  - k) Updated fence removal and concrete removal scope to west part of project site.
- Item No. 8**      C2.01 – GRADING AND RECONSTRUCTION PLAN
  - (a) Revised site plan design reconfiguring the planting space and surrounding grading.
  - (b) De-scoped a site ramp and handrails.
  - (c) Added a sloped walk area.
  - (d) Adjusted elevated walkway grading at upper parking lot ADA stalls.
  - (e) Added top of wall elevations at added retaining wall near slope and bike enclosure.
- Item No. 9**      C3.01 – STORM DRAIN PLAN
  - (a) Added storm drain inlets at new planter northwest.
  - (b) Added storm drain inlets at gutter and new 6" storm drain pipe below gutter to connect to existing drain inlet.
- Item No. 10**      C5.01 – HORIZONTAL CONTROL, PAVING, AND STRIPING PLAN
  - (a) Adjusted softscape and hardscape limits at new planter northwest of existing building.
  - (b) Added hardscape callout at the parking lot path of travel.
  - (c) Added asphalt replacement for storm drain trenching.
- Item No. 11**      C6.01 – EROSION CONTROL PLAN
  - (a) Added gravel bags at new planter northwest of existing building.
  - (b) Added gravel bags at the parking lot drain inlet.
- Item No. 12**      C7.01 – DETAILS
  - (a) Updated detail 20 to include gutter application of drain inlet.
  - (b) Updated keynote 06 and 08 for detail 20.
- Item No. 13**      L0.01 – Landscape Notes and Schedules
  - a) Keynotes added.
- Item No. 14**      L1.01 – Materials Plan
  - a) Revised single point of entrance into campus.
  - b) Replaced existing bike racks with new.
  - c) Added notes about reducing existing chainlink fence height.
- Item No. 15**      L2.01 – Layout Plan
  - a) Revised layout around single point of entrance into campus.
- Item No. 16**      L5.01 – Construction Details
  - a) Revised depth of DG.
- Item No. 17**      L5.02 – Construction Details
  - a) Added bike rack detail.
  - b) Revised Metal Picket Swing Gate detail.
  - c) Revised notes on details.
- Item No. 18**      L5.03 – Construction Details
  - a) Added CMU Retaining Wall detail.
  - b) Added Tubesteel Fence detail.





- Item No. 19** L7.01 – Planting Plan  
a) Revised planting at entry.
- Item No. 20** E1.10 – ELECTRICAL AND LIGHTING SITE PLAN  
a) Relocated location of comm box due to door location revision  
b) Added low voltage conduit routing for clarity

**Responses to RFI's**

- Item No. 1** Per section 329300,2.05 and several other areas in the specifications it mentions SOD. Per project plans no sod is shown. Please confirm if SOD is to be used and if so, which location and type is to be used.

Response: Sod exists adjacent to site. Drawings include patch and repair notes.

- Item No. 2** Per section 329300, 2.06.F it specifies that the mulch shall be shredded bark mulch, however in same section it specifies mulch is to be walk-on bark, please clarify which mulch is to be used for this project

Response: Use Walk-on bark.

- Item No. 3** Per sheet L6.01 note B it states contractor is to coordinate the required electrical power supply at this location with the owners authorized representative. Please confirm if the owner is to supply the power supply. If not please confirm where power source is coming from.

Response: Refer to addendum A for irrigation controller power

- Item No. 4** Per sheet L6.02 Netafim drip notes it states to use schedule 40 pvc SxT fittings with blank tubing and barbed fittings for the pvc supply headers and discharge headers. Per sheet L6.03 detail C it states to use GPH flexible nipples and sch 80 nipples instead of the blank tubing for both supply and discharge headers. Please confirm which to use.

Response: Install per detail 'C' on L6.03.

- Item No. 5** Per sheet L5.01 detail 16 it states DG to be 3" thick. Per Installation of DG Mix 3.06C it states thickness to be 4". Please clarify what depth is to be used.

Response: Use 4" per specifications.

- Item No. 6** Per Section 329119 3.03.C.1 it states to place 15" of topsoil backfill in planters. Please confirm design intent is to use existing soil onsite that is to be amended in place. Please also confirm if any import soil is to be bid. If so please provide type of soil,= square footage and depth of topsoil the imported.

Response: Intent is to use amended soil.

- Item No. 7** Is there going to be a broken down bid item list for this project?

Response: A bid item list will not be provided.



- Item No. 8** Detail 16/L5.01 does not shows aggregate base under decomposed granite. However, specs 321500/3.05 shows to install aggregate base. Please clarify if aggregate shall be installed under DG. If yes, please provide depth to install base.
- Response: No aggregate base beneath decomposed granite.
- Item No. 9** Detail 16/L5.01 shows 3" depth of decomposed granite. However, specs 321500/3.06 shows 4" depth. Please clarify.
- Response: Use 4" per specifications.
- Item No. 10** Irrigation material legend/ L6.02 shows sleeves shall be installed 24" depth under pedestrian paving & 36" depth under vehicular paving. However, detail O/L6.04 shows lateral line sleeves are installed 12" depth under pedestrian paving & 24" depth under vehicular paving. Please clarify.
- Response: Install per detail 'O' on sheet L6.04
- Item No. 11** Paragraph 6.2.1 mentions that a "competent project manager" must be kept on the premises, but it does not state if the PM must be full time or not. Please clarify if a full-time Project Manager is required for the project.
- Response:
- a) The Project Manager must be available to the district via phone call at any time.
  - b) The Project Manager must have enough time available to meet the needs of the project.
- Item No. 12** Item 7 in Document 00 45 10 states that "One Thousand Five Hundred Dollars (\$1,500) per day as Liquidated Damages for each and every day's delay beyond the Contract Time to complete all the Work." Please provide the construction duration of the project, including start date and end date. Without a baseline construction duration, bidders do not know at what time LDs would be enacted. Please provide a base line construction duration with start date and end date.
- Response: The expected duration is 9 months. Anticipated NTP is Early November. It is the Bid Awarded contractor's responsibility to provide a baseline schedule.
- Item No. 13** Please see Foundation Note #5 on sheet S2.01 which mentions "properly prepared soil as described in geotechnical report." No geotechnical report has been provided in the bid documents. Please provide a geotechnical report.
- Response: Foundation plan note #5 has been revised and reference to geotechnical report has been removed, since there is no geotechnical report for this project. Refer to addendum C drawings.
- Item No. 14** Please see Document 00 31 19 (Existing Information and Documentation Regarding Project Site) in the project manual. Please provide all "Existing Information and Documentation Regarding Project Site" in an accessible, digital form to all bidders.
- Response: No as-builts to be provided at this time. The winning bidder will receive all as-builts as needed.
- Item No. 15** Please see page 139 of the spec book, section 061000. This spec refers to a related requirement spec section 061733 - Wood I-Joists. Spec section 061733 is not in the spec book. Please issue spec section 061733.



Response: I Joists are not used on the project. Reference to section 061733 can be disregarded.

**Item No. 16** Please see details 7 and 10 on A8.01. These details require a hot fluid-applied, rubberized-asphalt waterproof membrane system. A spec section can not be found in the spec book for hot fluid-applied waterproofing. Please provide a spec section for a hot fluid-applied, rubberized-asphalt waterproof membrane system.

Response: These details have been omitted from the set as they are not relevant. Refer to landscape details and architectural detail 05/A8.11 for waterproofing.

**Item No. 17** Please see spec section 329300. The spec section mentions related requirements in Division 12 Section Site Furnishings. There is no spec in division 12 for site furnishings. Please provide a spec section for site furnishings.

Response: No division 12 spec for site furnishings

**Item No. 18** Please see WC under wall finish which states there is a MDC custom wallcovering graphic. No information is provided about what the graphic is. Please provide information about this graphic or alternatively classify as OFOI or direct all bidders to carry the same allowance.

Response: See attached image which shows a portion of the desired graphic. The contractor shall submit a shop drawing by MDC during construction for review and approval.

**Item No. 19** Please see 024100, 3.02, Item #3, which states "Provide, erect and maintain temporary barriers and security devices." Please clarify what is required as it relates to "security devices."

Response: Whatever the contractor feels is needed to provide for the security of their jobsite during and after working hours and holidays and the security of the students as it pertains to maintaining a secure barrier to prevent students and the public from wandering into the jobsite.

#### Drawings and Documents Issued

The drawings, documents, and RFI responses listed above are issued as Addendum No. C and are to be included in the Contract Documents.

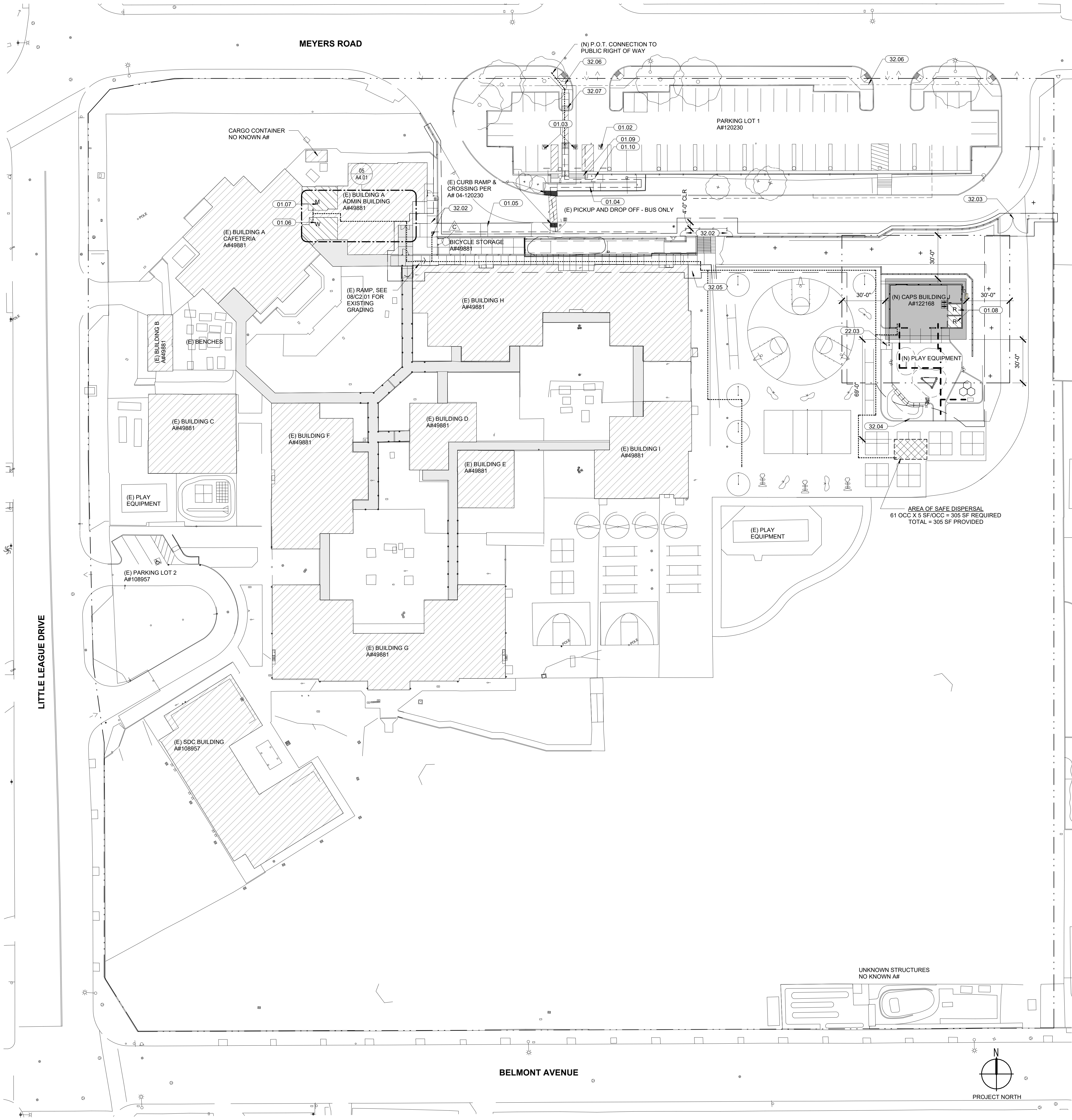
End of Addendum No. C



WC (PORTION OF IMAGE)







| KEYNOTES |  |
|----------|--|
| NUMBER   | TEXT   |
| 01.02    | (E) VAN ACCESSIBLE STALL A#120230  |
| 01.03    | (E) ACCESSIBLE STALL A#120230  |
| 01.04    | (E) ACCESSIBLE RAMP A#120230   |
| 01.05    | (E) ACCESSIBLE RAMP A#108957   |
| 01.06    | (E) WOMEN'S STAFF RESTROOM; RE: A4.01  |
| 01.07    | (E) MEN'S STAFF RESTROOM; RE: A4.01  |
| 01.08    | ACCESSIBLE STUDENT RESTROOM; RE: 05/A5.01  |
| 01.09    | (E) DETECTABLE WARNINGS A#04-120230  |
| 01.10    | (E) PEDESTRIAN GATE A#04-120230  |
| 22.03    | ACCESSIBLE HIGH-LOW DRINKING FOUNTAIN WITH BOTTLE FILLER; RE: L0.01, L1.01, 02/L5.03 |
| 32.02    | PEDESTRIAN GATES; RE: LANDSCAPE  |
| 32.03    | VEHICULAR GATE WITH FIRE ACCESS LANE SIGN; RE: 14/L5.02                              |
| 32.04    | SAFE DISPERSAL SIGN; RE: 08/A10.41   |
| 32.05    | BIKE LOCKER PER L0.01  |
| 32.06    | TOWAWAY SIGN PER A# 04-120230  |
| 32.07    | CURB RAMP PER 24/C2.01   |

| LEGEND |  |
|--------|--|
|        | (N) BUILDING IN SCOPE OF WORK            |
|        | (E) BUILDING NOT IN SCOPE OF WORK        |
|        | ACCESSIBLE RESTROOMS                     |
|        | (E) COVERED WALKWAY NOT IN SCOPE OF WORK |
|        | AREA OF SAFE DISPERSAL                   |
|        | PROPERTY LINE                            |
|        | LIMIT OF WORK                            |
|        | PATH OF EGRESS TO SAFE DISPERSAL         |

ACCESSIBLE PATH OF TRAVEL (P.O.T.), BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. P.O.T. SHALL MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-204 AND 11B-307). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-208 PER 11B-201.4

CONSTRUCTION SUPPORT FACILITIES, RELATED PARKING, AND TOILETS SHOULD BE INCLUDED IN THE PATH OF TRAVEL (EXCEPT AS NOTED IN 11B-203.2)

PATH OF TRAVEL UNDER A#04-108957

PATH OF TRAVEL UNDER A#49881

| PARKING CALCULATION |              |                 |                            |                       |
|---------------------|--------------|-----------------|----------------------------|-----------------------|
| PARKING LOT 1       | TOTAL STALLS | STANDARD STALLS | ACCESSIBLE STANDARD STALLS | ACCESSIBLE VAN STALLS |
| REQUIRED            |              |                 | 2                          | 1                     |
| PROVIDED            | 60           | 57              | 2                          | 1                     |

| BUILDING CERTIFICATION          |                  |           |                   |                             |
|---------------------------------|------------------|-----------|-------------------|-----------------------------|
| BUILDING                        | USE              | OCCUPANCY | CONSTRUCTION TYPE | SPRINKLER                   |
| BUILDING A A#49881 CERTIFIED    | ADMIN/ CAFETERIA | B-2 A-2   | VB VA             | NON-SPRINKLERED SPRINKLERED |
| BUILDING B A#49881 CERTIFIED    | TOILET           | E         | VB                | NON-SPRINKLERED             |
| BUILDING C A#49881 CERTIFIED    | KINDERGARTEN     | E         | VB                | NON-SPRINKLERED             |
| BUILDING D A#49881 CERTIFIED    | THERAPY          | E         | VB                | NON-SPRINKLERED             |
| BUILDING E A#49881 CERTIFIED    | LIBRARY          | E         | VB                | NON-SPRINKLERED             |
| BUILDING F A#49881 CERTIFIED    | CLASSROOM        | E         | VB                | NON-SPRINKLERED             |
| BUILDING G A#49881 CERTIFIED    | CLASSROOM        | E         | VB                | NON-SPRINKLERED             |
| BUILDING H A#49881 CERTIFIED    | CLASSROOM        | E         | VB                | NON-SPRINKLERED             |
| BUILDING I A#49881 CERTIFIED    | CLASSROOM        | E         | VB                | NON-SPRINKLERED             |
| BUILDING I A#49881 CERTIFIED    | CLASSROOM        | E         | VB                | NON-SPRINKLERED             |
| BUILDING SDC A#108957 CERTIFIED | CLASSROOM        | E         | VB                | NON-SPRINKLERED             |
| (N) BUILDING CAPS A#122168      | CLASSROOM        | E         | VB                | NON-SPRINKLERED             |

| GENERAL NOTES |  |
|---------------|--|
| 1.            | GATES IN THE PATH OF EGRESS MUST COMPLY WITH EXIT DOOR REQUIREMENTS, PROVIDE LEVER HARDWARE AND KICKPLATE. REFER TO LANDSCAPE DRAWINGS.  |
| 2.            | DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATION, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON-COMLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR ON FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT. |

|                       |              |            |
|-----------------------|--------------|------------|
| Submital              | Date         | 02/16/2023 |
| 100% SCHEMATIC DESIGN | Date         | 04/18/2023 |
| DSA SUBMITAL          |              |            |
| Job Number            | 30899        |            |
| Checked By            | BA           |            |
| Scale                 | As indicated |            |

LPA

ARCHITECTURE ENGINEERING INTERIORS  
LANDSCAPE ARCHITECTURE PLANNING  
949-261-1001 Office  
LPADesignStudios.com  
5301 California Avenue, Suite 100  
Irvine, California 92617

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NORTH VERDEMONT ELEMENTARY SCHOOL

3555 W. MEYERS ROAD  
SAN BERNARDINO, CA 92407

Developed for  
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

|            |                       |
|------------|-----------------------|
| Date       | 09/22/2025            |
| Revision   | Addendum C            |
| Submital   | 100% SCHEMATIC DESIGN |
| Date       | 02/16/2023            |
| Submital   | DSA SUBMITAL          |
| Job Number | 30899                 |
| Checked By | BA                    |
| Scale      | As indicated          |

SITE ACCESSIBILITY  
PLAN



|                           |              |    |
|---------------------------|--------------|----|
| ADMIN RESTROOM FLOOR PLAN | 1/4" = 1'-0" | 05 |
|---------------------------|--------------|----|







K. LIGHT GAUGE METAL FRAMING GENERAL NOTES

1. Applicable Standards: CBC Section 2210A and "Specifications for the Design of Cold-Formed Steel Structural Members" of AISI, S100-2016 Edition including amendments and referenced standards. Minimum yield strength shall be as follows:
- a. 13 mils (18 gauge) and lighter (33 ksi)
  - 1. Carbon Sheet Steel to be Painted: ASTM A1003, Grade 33
  - 2. Galvanized: ASTM A653, Grade A
  - b. 14 mils (16 gauge) and heavier (50 ksi):
  - 1. Carbon Sheet Steel to be Painted: ASTM A1003, Grade 50
  - 2. Galvanized: ASTM A653, Grade D
2. Manufacturer and Properties: Member of Steel Stud Manufacturer's Association (SSMA) complying with ICC-ESR 3064P or Cencro complying with ICC-ESR 3016. Provide punched studs as scheduled in these drawings with minimum effective section properties as indicated in referenced evaluation report.
3. Minimum Gauge Thicknesses: Indicated properties are based on the following thicknesses:
- 12 ga. - 0.0107 inch, 97 mils 16 ga. - 0.0713 inch, 68 mils 16 ga. - 0.0566 inch, 43 mils 18 ga. - 0.0451 inch, 43 mils 20 ga. - .0329 inch, 33 mils
4. Track Material: Provide unpunched track of dimensions to ensure proper fit of studs with minimum effective section properties as indicated in referenced evaluation report.
5. Lateral Bridging for Studs: Required when rigid wall finish does not continue full height on either or both sides of studs. Install horizontal straps or cold-rolled channels as shown and in accordance with Section D3 of AISI specification. See typical details.
6. Lateral Bridging for Joists: Joists shall be braced by full depth blocking at all points of support. Joist blocking shall also be provided for the following locations. See typical details.
7. Joist Web Punch-Out Locations: Web punch-outs shall not be located closer than twice the member depth from edge of bearing support or concentrated loads, 12" minimum. Do not provide punchouts at tracks.
8. Seaming Studs and Braces: Plumb, align and tightly nest to both upper and lower tracks with secure attachment to both flanges of tracks. Splices in angle loaded studs and braces are not permitted.
9. Self-Drilling Screws: See General Notes.
10. Welding: ANSI/AWS D1.3 and CBC Section 2210A. Wire wiring of framing components is not permitted.
- a. Welder Certification: Governing Code Authority.
  - b. Electrodes: E70XX at 33 ksi members, E70XX at 50 ksi members.
  - c. Touch-Up: Zinc-rich paint at galvanized members and regular paint at carbon steel sheet.

K. ROUGH CARPENTRY

1. Structural Lumber: Grade marked Douglas Fir-Larch structural lumber complying with Standard Grading Rules No. 17 (2018) of the West Coast Lumber Inspection Bureau. Provide air-dry lumber with 19 percent maximum moisture content, 4x and larger members may be provided green and air dried to 19 percent maximum moisture content.
2. Classifications and Grades:
- | Member   | Size Classification          | Grade |
|--|------------------------------|-------|
| Rafters and Joists Larger Than 2x4                   | 2" to 4" thick, 2" and wider | No. 1 |
| 2x4 Joists and Rafters                               | 2" to 4" thick, 2" and wider | No. 1 |
| 4x Beams, Headers and Stringers                      | 2" to 4" thick, 2" and wider | No. 1 |
| Beams, Headers and Stringers Larger Than 4x          | 4" thick, 4" and wider       | No. 1 |
| 4x Posts   | 4" thick, 4" and wider       | No. 1 |
| Posts Larger Than 4x                                 | 4" thick, 4" and wider       | No. 1 |
| Studs, Plates and Blocking in bearing or shear walls | 2" to 4" thick, 2" and wider | No. 1 |
| Studs, Plates and Blocking in non-bearing walls      | 2" to 4" thick, 2" and wider | No. 2 |
3. Plywood: U.S. Product Standard PS-2-10 and classified as Exposure 1. Each sheet of OSB sheathing shall be identified with appropriate trademark of the American Plywood Association.
4. Pressure Treated Structural Lumber Bearing on Concrete or Masonry: See Specifications. Provide hot dipped galvanized or stainless steel fasteners and hardware connectors where in contact with pressure treated lumber and structural lumber.
5. Nails: Common nails with dimensional properties complying with ASTM F1667. Install nails in compliance with Applicable Code Chapter 23, including Table 2304.10.1 (repeated below).
6. Bolts: ASTM A307 bolts with standard cut washer under both head and nut. Provide holes for bolts 1/32 to 1/16 inch larger than nominal bolt diameter. Re-lighten bolts prior to application of sheathing or finish.
7. Anchor Bolts: ASTM F1554, Grade 55, UNO.
8. Lag Screws: ANSI/APA Standard B18.2.1 including Appendix I for lag screw dimensions. Pre-drill all holes. Hole at shank portion to match diameter of shank. Holes at threaded portion to be 40-70 percent of shank diameter and equal to length of threaded portion. Use soap and lubricants to facilitate installation. Driving with hammer is not permitted.
9. Wood Screw: ANSI/APA Standard B18.6.1 for wood screw dimensions. Driving with hammer is not permitted.
10. Plate Washers: Provide under heads or nuts of bolts (including anchor bolts at all plates) and lag screws per 09S16.81 when anchoring wood.
11. Wood Hardware Connectors: Manufactured by Simpson Strong-Tie Company, Inc. complying with ICC-ES Evaluation Report Nos. ESR-2105, ESR-2523, ESR-2549, ESR-2653, ESR-2664, ESR-2675, and ESR-3096. Install connectors using fasteners in accordance with manufacturer's written instructions. Fill all holes to achieve maximum load capacity per manufacturer. For connectors requiring nails, use common nails unless shorter nails (sinker) are specifically indicated.
12. Notching or Cutting Structural Lumber: Not permitted unless specifically detailed or indicated.
13. Lateral Support for Beams, Rafters, and Joists: Full Depth 2.5x16.5 GLU-Laminated blocking shall be provided at 8 feet on center or midpoint, whichever is less.
14. Provide 4x or 3 1/2" min. framing members at fire sprinkler lateral and/or longitudinal bracket attachment location. Coordinate with fire sprinkler drawings for locations of pipe bracing required.

L. GLUED-LAMINATED (GLU-LAM) AND PROPRIETARY COMPOSITE LUMBER

1. General: Refer to Rough Carpentry notes for additional information.
2. Glu-Lam Lumber: Alaskan Yellow Cedar structural lumber complying with Standard Grading Rules No. 17 (2004) of the West Coast Lumber Inspection Bureau. Fabricate glued-laminated lumber in compliance with AITC Standard Specifications for Structural Glued-Laminated Timber of Softwood Species (AITC 117-10), ANSI/AITC A190.1-12 and ASTM D3737-12.

- A. Condition of Use: Dry condition of use with a moisture content less than 16 percent at time of gluing.
- B. Joint Adhesive: Bond laminations together with wet use (waterproof) adhesives in compliance with ASTM D2559-12a.
- C. Pressure Treated Glu-Lam Lumber: See Rough Carpentry section.
- D. Appearance Grade: Architectural.
- E. Combination Symbol: 20F-V13 (AC) Shop Drawings and Certificates of Compliance: Submit for each member in compliance with applicable code to Architect (Structural Engineer) and Governing Code Authority. Indicate on shop drawings species of lumber, appearance grade, type of glue, combination symbols, dry or wet condition of use, cambers, pressure treatment (if required).

- F. Special Inspection: All glued-laminated lumber shall be continuously inspected during fabrication in accordance with CBC Section 1705A.5.5 by a Special Inspector specifically approved by the Enforcement Agency for that purpose. An AITC certificate will not meet this requirement.

N. NAILING SCHEDULE (PORTION OF CBC TABLE 2304.10.2)

All nails are common nails unless noted acceptance by Architect (Structural Engineer) is attained.

- Joist to sill or girder, toenail 3-6d
- Bridging to joist, toe nail each end 3-6d
- 1"x6" subfloor or less to each joist, face nail 2-6d
- Wider than 1"x6" subfloor to each joist, face nail 3-6d
- 2" subfloor to joist or girder, blind and face nail 2-6d
- Sole plate to joist or blocking, typical face nail 16d @ 8" o/c
- Sole plate to joist or blocking, at braced wall panels 3-16d per 16"
- Top plate to stud, end nail 2-16d
- Stud to sole plate 4-8d, toe nail or 2-16d, end nail 16d @ 24" o/c
- Doubled top plates, typical face nail 16d @ 16" o/c
- Doubled top plates, lap splice 8-16d
- Blocking between joists or rafters to top plate, toe nail 3-8d
- Rim joist to top plate, toe nail 8d @ 8" o/c
- Top plates, laps and intersections, face nail 2-16d
- Continuous header, two pieces 16d @ 16" o/c along each edge
- Ceiling joist to plate, toe nail 3-8d
- Continuous header to stud, toe nail 4-8d
- Ceiling joists, laps over partitions, face nail 3-16d
- Ceiling joists to parallel rafters, face nail 3-8d
- Refer to plate, toe nail 3-8d
- 1" brace to each stud and plate, face nail 2-8d
- 1"x6" sheathing or less to each bearing, face nail 3-8d
- Wider than 1"x6" sheathing to each bearing, face nail 3-8d
- 2" planks 2-16d at each bearing
- Built-up corner studs 16d @ 24" o/c
- Built-up girder and beams 20d @ 32" o/c at top and bottom and staggered 2-20d at ends and at each splice

F. CAST-IN-PLACE CONCRETE

1. Embedments and Penetrations in Concrete: No penetration through structural concrete is permitted unless shown in these drawings or specifically accepted in writing by Architect (Structural Engineer). Do not cut any reinforcing:
- A. Pipes, Sleeves, Conduits, and Ducts: Not permitted embedded or penetrating concrete spread footings, columns, walls or concrete cast over metal decking, except as shown in these drawings.
  - B. Conduits Embedded in Structural Concrete Slabs: Not permitted unless limited to two layers of 1 inch, and 16 slab thickness, outside diameter conduits and smallest spaced at least 3 inches center to center and within middle third of slab thickness. No conduit embedded in concrete cast over metal decking is permitted. No aluminum conduit is permitted.
2. Chamfered Corners: Provide 3/4-inch chamfer if exposed corners of columns, beams and walls except where structural walls are laid flush with column or beam faces, unless detailed otherwise.
3. Curing: Maintain concrete above 50 degrees Fahrenheit and in a moist condition for a minimum of 7 days after placement unless otherwise accepted by Architect (Structural Engineer).
3. Minimum Gapping Topping slab shall be normal weight concrete reinforced with 6x6W3.5x3.5 W.W.F. at center line of slab. See plans & details for information on concrete fill over metal deck.
15. No more than one class of concrete shall be on site at one time.
16. The maximum size for a single elevated concrete slab pour shall be 25,000 sq. ft. and shall have a maximum length to depth ratio of 2:1.
17. The maximum water-soluble chloride (ON (Cl) content) in concrete by percentage of weight cement is 0.30.
18. Where "Styfoform" indicated on plans provide Polystyrene product conforming to ASTM D6817. Foam shall have a minimum density of 0.70 lb/ft<sup>3</sup> when tested in accordance with ASTM D1622. Foam shall have a minimum compressive strength of 2.25 psi at 1 percent deformation when tested in accordance with ASTM D1621.
19. An approved agency shall check the first batch at the start of the day to verify materials and proportions conform to the approved mix design.
20. A licensed weighmaster shall positively identify quantity of materials and certify each load by a batch ticket.
21. Batch tickets, including material quantities and weights shall accompany the load, shall be transmitted to the inspector of record by the truck driver with load identified thereon. The load shall not be placed without a batch ticket identifying the mix. The inspector of record shall keep a daily record of placements, identifying each truck, its load, and time of receipt at the jobsite, and approximate location of deposit in the structure and shall maintain a copy of the daily record as required by the enforcement agency.

G. PROPRIETARY ANCHORAGES AND FASTENERS

1. Anchorage:
- A. Drill and Epoxy Anchors:
    - i. At Concrete: Hilti HIT-RE 500 V3 adhesive anchor system complying with ICC-ES Evaluation Report ESR-3814.
    - ii. At Masonry: Hilti HIT-HY 270 adhesive anchor system complying with ICC-ES Evaluation Report ESR-4143.
  - B. Provide anchor type, size and embedment as indicated in details.
  - C. Overhead applications must be installed using the Hilti HIT-SZ piston plug system.
  - D. Mechanical Anchors:
    - i. At Concrete: Hilti KB-T22 carbon steel expansion anchor complying with ICC-ES Evaluation Report ESR-4266.
    - ii. At Masonry: Hilti KB-T22 carbon steel expansion anchor complying with ICC-ES Evaluation Report ESR-4561.
    - iii. Where mechanical anchor is exposed to weather, provide stainless steel anchor conforming to the ICC-ES Evaluation Report in lieu of carbon steel.
  - E. Welded Shear Studs: Nelson S33, flux filled, headed stud anchors, 65,000 psi minimum ultimate tensile strength conforming to ASTM A242, automatically end welded in field and complying with ICC-ES Evaluation Report ESR-2856.
  - F. Welded Deformed Anchors: Nelson D22, cold rolled, deformed steel reinforcing bars conforming to ASTM A1064 and complying with ICC-ES Evaluation Report ESR-2307.
2. Fasteners:
- A. Powder Actuated Fasteners: Hilti Low-velocity Powder Actuated Drive, 0.157" diameter (XU), complying with ICC-ES Report ESR-2269. Provide appropriate washer between fastener head and light gauge metal or wood surface. Stop pins shall not be used @ PT slab or beams.
  - B. Self-Drilling Metal Screws (Indicated "Screws" or "SMS" on Drawings): Hilti Self-Drilling Screw complying with current ICC-ES Evaluation Report ESR-2196.
  - C. Concrete Screws: Hilti KH-EZ carbon steel screw anchor complying with ICC-ES Evaluation Report ESR-3027.
  - D. Masonry Screws: Hilti KH-EZ carbon steel screw anchor complying with ICC-ES Evaluation Report ESR-3066.
  - E. Where Concrete or Masonry Screws are exposed to weather, provide stainless steel anchors conforming to the ICC-ES Evaluation Report in lieu of carbon steel.
3. Installation: See manufacturer's written instructions and referenced ICC-ES evaluation report. Contractor shall arrange an anchor manufacturer's representative to provide onsite installation training for all anchor products specified.
- A. Prior to drilling holes for post-installed anchors, contractor shall locate existing rebar, prestressing tendons, post-tensioning tendons, and embedded utilities using non-hazardous, non-destructive methods with accurate location tolerances (plus or minus 1/4-inch). Do not cut, hit or otherwise damage existing rebar or tendons during anchor installation.
- B. Drilling Holes in Existing Concrete or Masonry for Anchorages: Use non-pneumatic, rotary hammer tools with ANSI compliant non-rebar cutting drill bits to drill holes of proper tolerances. Locate existing rebar including prestressing and post-tensioning tendons using non-hazardous, non-destructive methods with accurate location tolerances (plus or minus 1/4-inch) prior to drilling holes to avoid cutting or damaging. Holes shall be thoroughly cleaned per manufacturer's written recommendations prior to installation of anchorages.
- C. Deliberate Materials: Keep anchorages, including holes for drill and epoxy anchors and mechanical anchors, free of dust, grease, and other materials that impair bond.
- D. Use of diamond core bit with roughening tool for anchor holes requires approval from Engineer of Record prior to drilling. Unless otherwise shown in the drawings, all holes shall be drilled perpendicular to the concrete surface.
- E. Embedment Depths:
- i. Mechanical Anchors: Embedment depths noted in drawings are the effective minimum embedment UNO. Refer to applicable evaluation report for the corresponding minimum hole depth and nominal embedment.
  - ii. Screw Anchors: Embedment depths noted in drawings are the nominal minimum embedment UNO. Refer to the applicable evaluation report for the corresponding minimum hole depth.
- F. Holes are assumed to be dry unless otherwise noted on plans.
- G. Anchor installer certification is required for all installers of drill and epoxy anchors in horizontal or upwardly inclined orientation. Installation qualification must be provided to the inspector prior to installation.
- H. Installation Torques for Expansion Anchors shall be as noted:

| Nominal Anchor Diameter | Expansion Anchor Installation Torque (ft-lb) |               |               |               |
|-------------------------|--|---------------|---------------|---------------|
|                         | Into Concrete                                |               | Into Masonry  |               |
|                         | Hilti KH-EZ                                  | Hilti KH-EZ C | Hilti KH-EZ C | Hilti KH-EZ C |
| 1/4"                    | 18   | N/A           | 18            | 21            |
| 3/8"                    | (19 @ $f_{cm} < 2.5'$ )                      | 45            | N/A           | 22            |
| 1/2"                    | 45   | N/A           | 45            | 34            |
| 5/8"                    | 85   | N/A           | 85            | N/A           |
| 3/4"                    | 95   | N/A           | 85            | N/A           |

Note: 1/4" dia. Hilti KH-EZ P, PM & PL in concrete shall have installation torque of 18 ft-lb.

1. Installation Torques for Screw Anchors shall be as noted:
- | Nominal Anchor Diameter | Expansion Anchor Installation Torque (ft-lb) |               |               |               |
|-------------------------|--|---------------|---------------|---------------|
|                         | Into Concrete                                |               | Into Masonry  |               |
|                         | Hilti KH-EZ                                  | Hilti KH-EZ C | Hilti KH-EZ C | Hilti KH-EZ C |
| 1/4"                    | 18   | N/A           | 18            | 21            |
| 3/8"                    | (19 @ $f_{cm} < 2.5'$ )                      | 45            | N/A           | 22            |
| 1/2"                    | 45   | N/A           | 45            | 34            |
| 5/8"                    | 85   | N/A           | 85            | N/A           |
| 3/4"                    | 95   | N/A           | 85            | N/A           |
- Note: 1/4" dia. Hilti KH-EZ P, PM & PL in concrete shall have installation torque of 18 ft-lb.
4. Testing
- A. See DSA 103 Testing and Inspections.
  - B. Installation in Concrete:
    - i. Provide testing of post-installed anchors in concrete per CBC 2022 1910A.5.
  - C. Installation in Masonry:
    - i. Provide testing of post-installed anchors in masonry per CBC 2022 1910A.5 as required by section 1705A.4.

E. REINFORCING STEEL

1. Reinforcing Steel: All bars shall be deformed.
- A. All bars unless indicated otherwise: ASTM A615, Grade 60
  - B. Bars to be welded: ASTM A706, Grade 60
  - C. Additional Requirements for Bars, Excluding Ties, for vertical bars in Shear Walls: No additional requirements if ASTM A706, Grade 60 bars used. ASTM A615, Grade 60 bars are permitted provided actual yield strength based on mill tests does not exceed specified yield strength by more than 18,000 psi (retests shall not exceed this value by more than an additional 3,000 psi) and ratio of actual ultimate tensile stress to actual yield stress is not less than 1.25.
2. Wire and Spiral Reinforcing:
- A. Smooth welded wire fabric (W.W.F.): ASTM A1064, Fy <65 ksi. Flat sheets only - do not use rolled mesh. Lap 1-1/2 wire spaces (1' foot minimum). Offset laps in adjacent sheets to avoid continuous laps.
  - B. Deformed wire stirrups (D4 and larger only): ASTM A1064, Fy <65 ksi
  - C. Spiral reinforcing: ASTM A1064, Fy <65 ksi
3. Reinforcing shall be placed in accordance with the American Concrete Institute Standard 318 (ACI318) and Concrete Reinforcing Steel Institute's (CRSI) "Manual of standard practice". Reinforcing shall be kept clean and free of rust.
4. Provide all accessories needed to support reinforcing in the positions shown in the drawings. Chairs and spacers for reinforcing shall be non-ferrous of plastic coated when resting on exposed concrete surfaces.
5. Shop Drawings: ACI 318-19. Show reinforcing steel placement including sizes, quantities, spacing, clearances, splice locations, lap lengths, and concrete exposed to weather. Reinforcing shall be identified. If mill test reports cannot be made available or if material cannot be identified, Testing Laboratory will perform tests as directed by Architect (Structural Engineer). Contractor shall pay Testing Laboratory for costs related to tests and inspections of unidentifiable materials or materials furnished without mill test reports, materials found deficient after initial tests and inspections, or materials replacing deficient materials.
6. Lap Splices: At concrete, Provide Class B splices per 04S601.0 UNO. Allow any provide, 72db lap splice length UNO. Splice bars only at locations indicated. If additional splice locations are proposed, promptly notify Architect (Structural Engineer) prior to developing shop drawings.
- A. Splices in Walls: Locate splices in horizontal bars at well-staggered locations. Do not splice vertical bars except at horizontal supports such as floor and roof diaphragms.
7. Mechanical and Welded Splice: Mechanical Splice and Welded Splices are to be used only at locations indicated. Notify Architect (Structural Engineer) of all instances prior to developing shop drawings.
- A. Mechanical Splice: Mechanical couplers shall have current Evaluation Report and satisfy ACI required for type 2 coupler for the applicable bar size / grade designation.
  - B. Welded Splice: Welded splice shall develop at least 125 percent of the yield strength of the spliced bar for the applicable bar size and grade designation.
8. Minimum Clearances Between Parallel Reinforcing Steel Including Distance Between Sets of Spliced Bars: 1 inch, 1 bar diameter, or 4/3 times the minimum aggregate size whichever is greater. 1-1/2 inches, 1-1/2 bar diameters, or 4/3 times the minimum aggregate size whichever is greater, at columns, piers, and pilasters only. For bundled bars, minimum clear distances between units of bundled bars shall be same as single bars except bar diameter is derived from equivalent total area of bundle.
9. Minimum Concrete Coverage: Place bars as near to concrete surface as the following minimum coverages permit, unless noted otherwise:
- A. Slabs on Grade - locate at center of slab.
  - B. Slabs Supporting Earth Above - 1-1/2 inches from top.
  - C. Formed Concrete Exposed to Earth or Weather - 1-1/2 inches (#5 and smaller); 2 inches (#6 and larger)
  - D. Concrete Poured Against Earth (Unform) - 3 inches
  - E. Walls Above Grade, Exposed to Weather - See C. above
  - F. At Masonry: Hilti KB-T22 carbon steel expansion anchor complying with ICC-ES Evaluation Report ESR-4561.
  - G. Columns (Clear to Face of Ties) - 1-1/2 inches
  - H. Beams (Clear to Face of Ties) - 1-1/2 inches
  - I. Structural Slabs, Not Exposed to Weather (Top and Bottom) - 1 inch (#8 and smaller); 1db (#9 and larger)
  - J. Structural Slabs, Exposed to Weather - See C. above
10. Dowels between footings and vertical wall & column bars shall match the size, grade and spacing of the column up wall vertical reinforcing and be lapped with a class B lap splice, UNO.
11. Dowels at Construction Joints: Provide dowels matching size and quantity of reinforcing steel interrupted at construction joints, unless detailed otherwise.
12. Placement of Bars in Walls (Unless Indicated otherwise): Place vertical bars closest to wall surfaces at curties containing vertical and horizontal bars of the same size. In curties which vertical and horizontal bars are of different sizes or spacing, place layer with most steel area closest to near wall surface.
13. Bars Terminating at Walls, Columns, Beams, and Foundations: Extend bars to within 2 inches (3 inches at concrete poured against earth) of face of wall, column, beam, or foundation and provide standard hook unless detailed otherwise.
14. Bars Interrupted by Structural Steel: Extend bars to within 2 inches of steel face and provide standard hook unless detailed otherwise.

15. Welding: AWS D14, edition adopted by applicable code.
- A. Reinforcing Steel for Welding: ASTM A706. If welding of reinforcing steel other than A706 is desired, submit shop drawings, indicating conformance to Applicable Code and requirements of Governing Code Authority, to Architect (Structural Engineer) for acceptance and to Governing Code Authority for approval prior to execution.
  - B. Rebar to rebar weld not allowed except where specifically indicated on plans. Provide electrode E80XX (80 ksi) where permitted.
  - C. Welder Certification: As required by Governing Code Authority.
  - D. See welding notes in Structural Steel Section of these notes for additional requirements.
16. Bending: Bend cold unless otherwise accepted by Architect (Structural Engineer). Do not field-bend reinforcing steel bars embedded in concrete unless otherwise accepted in writing by Architect (Structural Engineer).
17. Reinforcing Steel Allowance: In addition to reinforcing steel indicated in Contract Documents, allow for an additional 2 tons of reinforcing steel to be constructed under direction of Architect (Structural Engineer) during construction. Direction will be given during multiple occupations. Reinforcing steel under this allowance will be of any size, shape and grade. Quantity of pieces and location in Project will be determined by Architect (Structural Engineer) for acceptance and to Governing Code Authority for approval prior to execution. The unused portion of this allowance shall be credited to the owner at the completion of the project.
18. In-plant fusion welding of holding wires to ties, stirrups and hoops in beams, columns and grade beams to preassemble reinforcing steel cages is permitted under the following conditions per CBC 2022 1902A.9:
- a. Fusion welding is not allowed to longitudinal reinforcing steel in any beam, column or grade beam. The holding wire area shall not exceed 5% of the beam, column or grade beam cross sectional longitudinal steel area.
  - b. Fusion welding of holding wires to the ends of the reinforcing steel placed in walls (spread footings, slab reinforcement, etc.) provided the fusion weld occurs within 6 bar diameters of the free end of the bar (e.g. not allowed at the end of coupled, l-headed or weld spliced bars).
  - c. Fusion welding of holding wires shall not occur on a bent portion of a reinforcing bar. After holding wire has been fusion welded to a reinforcing bar, that bar may not be bent where the fusion weld occurs.
  - d. Contractor to submit complete shop drawings indicating which members will use fusion welding process for preassembly. Provide complete details indicating the size of stirrups, holding wires and welding requirements.
  - e. Holding wires shall conform to ASTM A1064.
  - f. All reinforcing steel to be welded shall comply with ASTM A706 Grade 60.
  - g. Contractor to submit complete shop welding program outlining the following:
    - 1. Type of specific fusion welding machine (i.e. Schrod IDA 1225 Machine, etc.)
    - 2. Periodic inspection of the in-plant welding.
  - h. Fusion welded reinforcing steel shall have one tensile test taken from one specimen sampled at a rate of 2.5 tons or fraction thereof of each size of reinforcing steel fusion welded. No bend test is necessary. The specimen shall have a holding wire attached to it that need not be removed. The elongation requirements shall comply with the ASTM of reinforcing steel specified on the construction documents (e.g. if A615 is specified, but A706 is used due to the welding requirements, then A615 elongation requirements shall be satisfied).
  - i. The use of fusion welding shall conform to ACI318-19 26.6.4.
  - j. If field conditions result in conflicts with other structural members (ex. anchor bolts) the rebar must be relocated in the field to avoid said conflicts.

19. Welding: AWS D14, edition adopted by applicable code.
- A. Reinforcing Steel for Welding: ASTM A706. If welding of reinforcing steel other than A706 is desired, submit shop drawings, indicating conformance to Applicable Code and requirements of Governing Code Authority, to Architect (Structural Engineer) for acceptance and to Governing Code Authority for approval prior to execution.
  - B. Rebar to rebar weld not allowed except where specifically indicated on plans. Provide electrode E80XX (80 ksi) where permitted.
  - C. Welder Certification: As required by Governing Code Authority.
  - D. See welding notes in Structural Steel Section of these notes for additional requirements.
16. Bending: Bend cold unless otherwise accepted by Architect (Structural Engineer). Do not field-bend reinforcing steel bars embedded in concrete unless otherwise accepted in writing by Architect (Structural Engineer).
17. Reinforcing Steel Allowance: In addition to reinforcing steel indicated in Contract Documents, allow for an additional 2 tons of reinforcing steel to be constructed under direction of Architect (Structural Engineer) during construction. Direction will be given during multiple occupations. Reinforcing steel under this allowance will be of any size, shape and grade. Quantity of pieces and location in Project will be determined by Architect (Structural Engineer) for acceptance and to Governing Code Authority for approval prior to execution. The unused portion of this allowance shall be credited to the owner at the completion of the project.
18. In-plant fusion welding of holding wires to ties, stirrups and hoops in beams, columns and grade beams to preassemble reinforcing steel cages is permitted under the following conditions per CBC 2022 1902A.9:
- a. Fusion welding is not allowed to longitudinal reinforcing steel in any beam, column or grade beam. The holding wire area shall not exceed 5% of the beam, column or grade beam cross sectional longitudinal steel area.
  - b. Fusion welding of holding wires to the ends of the reinforcing steel placed in walls (spread footings, slab reinforcement, etc.) provided the fusion weld occurs within 6 bar diameters of the free end of the bar (e.g. not allowed at the end of coupled, l-headed or weld spliced bars).
  - c. Fusion welding of holding wires shall not occur on a bent portion of a reinforcing bar. After holding wire has been fusion welded to a reinforcing bar, that bar may not be bent where the fusion weld occurs.
  - d. Contractor to submit complete shop drawings indicating which members will use fusion welding process for preassembly. Provide complete details indicating the size of stirrups, holding wires and welding requirements.
  - e. Holding wires shall conform to ASTM A1064.
  - f. All reinforcing steel to be welded shall comply with ASTM A706 Grade 60.
  - g. Contractor to submit complete shop welding program outlining the following:
    - 1. Type of specific fusion welding machine (i.e. Schrod IDA 1225 Machine, etc.)
    - 2. Periodic inspection of the in-plant welding.
  - h. Fusion welded reinforcing steel shall have one tensile test taken from one specimen sampled at a rate of 2.5 tons or fraction thereof of each size of reinforcing steel fusion welded. No bend test is necessary. The specimen shall have a holding wire attached to it that need not be removed. The elongation requirements shall comply with the ASTM of reinforcing steel specified on the construction documents (e.g. if A615 is specified, but A706 is used due to the welding requirements, then A615 elongation requirements shall be satisfied).
  - i. The use of fusion welding shall conform to ACI318-19 26.6.4.
  - j. If field conditions result in conflicts with other structural members (ex. anchor bolts) the rebar must be relocated in the field to avoid said conflicts.

19. Welding: AWS D14, edition adopted by applicable code.
- A. Reinforcing Steel for Welding: ASTM A706. If welding of reinforcing steel other than A706 is desired, submit shop drawings, indicating conformance to Applicable Code and requirements of Governing Code Authority, to Architect (Structural Engineer) for acceptance and to Governing Code Authority for approval prior to execution.
  - B. Rebar to rebar weld not allowed except where specifically indicated on plans. Provide electrode E80XX (80 ksi) where permitted.
  - C. Welder Certification: As required by Governing Code Authority.
  - D. See welding notes in Structural Steel Section of these notes for additional requirements.
16. Bending: Bend cold unless otherwise accepted by Architect (Structural Engineer). Do not field-bend reinforcing steel bars embedded in concrete unless otherwise accepted in writing by Architect (Structural Engineer).
17. Reinforcing Steel Allowance: In addition to reinforcing steel indicated in Contract Documents, allow for an additional 2 tons of reinforcing steel to be constructed under direction of Architect (Structural Engineer) during construction. Direction will be given during multiple occupations. Reinforcing steel under this allowance will be of any size, shape and grade. Quantity of pieces and location in Project will be determined by Architect (Structural Engineer) for acceptance and to Governing Code Authority for approval prior to execution. The unused portion of this allowance shall be credited to the owner at the completion of the project.
18. In-plant fusion welding of holding wires to ties, stirrups and hoops in beams, columns and grade beams to preassemble reinforcing steel cages is permitted under the following conditions per CBC 2022 1902A.9:
- a. Fusion welding is not allowed to longitudinal reinforcing steel in any beam, column or grade beam. The holding wire area shall not exceed 5% of the beam, column or grade beam cross sectional longitudinal steel area.
  - b. Fusion welding of holding wires to the ends of the reinforcing steel placed in walls (spread footings, slab reinforcement, etc.) provided the fusion weld occurs within 6 bar diameters of the free end of the bar (e.g. not allowed at the end of coupled, l-headed or weld spliced bars).
  - c. Fusion welding of holding wires shall not occur on a bent portion of a reinforcing bar. After holding wire has been fusion welded to a reinforcing bar, that bar may not be bent where the fusion weld occurs.
  - d. Contractor to submit complete shop drawings indicating which members will use fusion welding process for preassembly. Provide complete details indicating the size of stirrups, holding wires and welding requirements.
  - e. Holding wires shall conform to ASTM A1064.
  - f. All reinforcing steel to be welded shall comply with ASTM A706 Grade 60.
  - g. Contractor to submit complete shop welding program outlining the following:
    - 1. Type of specific fusion welding machine (i.e. Schrod IDA 1225 Machine, etc.)
    - 2. Periodic inspection of the in-plant welding.
  - h. Fusion welded reinforcing steel shall have one tensile test taken from one specimen sampled at a rate of 2.5 tons or fraction thereof of each size of reinforcing steel fusion welded. No bend test is necessary. The specimen shall have a holding wire attached to it that need not be removed. The elongation requirements shall comply with the ASTM of reinforcing steel specified on the construction documents (e.g. if A615 is specified, but A706 is used due to the welding requirements, then A615 elongation requirements shall be satisfied).
  - i. The use of fusion welding shall conform to ACI318-19 26.6.4.
  - j. If field conditions result in conflicts with other structural members (ex. anchor bolts) the rebar must be relocated in the field to avoid said conflicts.

F. CAST-IN-PLACE CONCRETE

1. Applicable Standards: ACI 318 and ACI 301 except as amended in California Building Code Chapter 19A (for DSA & OSHPD) and as modified by supplemental requirements herein. Concrete mixing shall comply with ASTM C94.
2. Portland Cement: ASTM C150, type II. Submit mill test with certification of compliance to Architect (Structural Engineer).
3. Aggregates:
- A. Normal Weight Concrete Aggregate: ASTM C33 for aggregates of natural sand and rock. Maximum aggregate size is 1 inches at foundations and slabs on grade and 1 inch elsewhere.
  - B. Light Weight Aggregate for Structural Concrete: ASTM C330, expanded shale light weight aggregate.
4. Minimum 28-Day Concrete Compressive Strengths and Types:
- | Element  | Compressive Strength and Type of Concrete | Max. W/C Ratio |
|--|---|----------------|
| Concrete Unless Otherwise Indicated on Structural Drawings | 3000 psi normal weight (145 pcf)          | 0.5            |
| Footings   | 4000 psi normal weight (145 pcf)          | 0.45           |
| Concrete Slabs on Grade                                    | 4000 psi normal weight (145 pcf)          | 0.5            |
| Equipment Curb   | 3000 psi normal weight (145 pcf)          | 0.5            |
5. Slump: Per ACI 301, CH 4 and CBC section 1705A.3.
6. Lean Concrete: Where specifically indicated, containing 2 sacks of cement per cubic yard of concrete. Use only where specifically called for.
7. Non-shrink Grout: ASTM C109, cementitious, non-metallic attaining a compressive strength of 8000 psi.
8. Mix Design: Submit: Prior to ordering concrete, submit for each compressive strength and type of concrete required designed, signed, and sealed by a registered Civil or Structural Engineer in California to Architect (Structural Engineer), Special Inspector and to Governing Code Authority complying with California Building Code, Chapter 19A.
9. Construction Joint: Roughen surface to 1/4-inch amplitude. Clean, remove laitance, thoroughly wet and remove standing water before placing new concrete. Submit to Architect (Structural Engineer) at least 14 days prior to placing concrete indicating locations of construction joints and extent of repairs. Place joints at locations to minimize effects of shrinkage as well as being placed at points which least impair strength of structure. Provide dowels as directed.

C. QUALITY ASSURANCE (STRUCTURAL OBSERVATION, MATERIALS TESTING, AND SPECIAL INSPECTION)

1. Structural Observation:
- A. The Architect (Structural Engineer) or record will perform visual observation of the construction as required CAC 4-333 and 4-341 in accordance with the governing code. These visual observations shall not be considered a substitute for special inspections.
  - B. Coordination Responsibilities of Contractor: Notify Architect (Structural Engineer) 48 hours in advance of critical stages of construction indicated below so visits may be scheduled by Structural Observer. Failure by Contractor to meet observation schedule may require removal of subsequent Work for observation. Contractor to bear costs of removal and replacement of finished Work or framing damaged by removal process or as required for corrective action and for any associated scheduling delays.
  - C. Critical stages of construction requiring structural observation:
    - 1. Prior to pouring first foundation.
    - 2. After nailing of first plywood diaphragm, completion of shearwalls, and wood framing.
  - D. Pre-construction Meeting: Owner may coordinate and call for meeting between Architect (Structural Engineer) responsible for structural design, Structural Observer, Contractor, affected subcontractors and Special Inspector. Structural Observer will preside over this meeting. Purpose of meeting is to identify major structural elements and connections that affect vertical and lateral load resisting systems of structure and to review schedule of Structural Observation, Materials Testing, and Special Inspection of Project.
2. Mill Test Reports Certifying Materials: Contractor to submit mill test reports certifying reinforcing steel, and structural steel are of identifiable tested stock to Owner, Special Inspector, Architect (Structural Engineer) and, upon request, to Governing Code Authority. Ensure materials are properly tagged for identification. If mill test reports cannot be made available or if material cannot be identified, Testing Laboratory will perform tests as directed by Architect (Structural Engineer). Contractor shall pay Testing Laboratory for costs related to tests and inspections of unidentifiable materials or materials furnished without mill test reports, materials found deficient after initial tests and inspections, or materials replacing deficient materials.
3. Weld Testing and Inspection: Testing Laboratory will submit weld test results to Owner, Contractor, Architect (Structural Engineer) and to Governing Code Authority. See Specifications for testing requirements not indicated on structural drawings.
4. Structural Steel Welding: Apart from visual inspection and review of fabrication and erection reports of fabricator/vendor's own quality control testing and inspection, Owner's Testing Laboratory will perform indicated shop and field inspection and testing. Testing Laboratory will be AWS Q.C. 1-certified and will provide inspectors for continuous inspection of steel fabrication and erection and structural welding. Shop and field testing of materials and welding will be as follows:
- a. Ultrasonic testing is required for all (100%) and complete penetration welds. Test groove welding on continuity plates by ultrasonic testing after beam flange weld connection. Testing shall occur after completion of welds coated to ambient temperature. Weld backing removal areas and field welds will be subjected to magnetic particle examination.
  - b. Base metal thicker than 1-1/2 inches, subjected to through thickness weld shrinkage, will be ultrasonically tested directly behind such welds after welds have cooled to ambient temperature.
  - c. Welds shall be visually inspected and periodically measured (15 percent minimum).
  - d. Check 10 percent of fillet welds by magnetic particle (ASTM 109 method). Check 25 percent of continuity plate fillet welds and beam fillet welds (100 percent in moment zones) by magnetic particle.
  - e. Ultrasonically test column flanges located at proposed welded moment connections, continuity plates, doubler plates and base plates where column flange or plate thickness exceeds 1-1/2 inches. Test for evidence of laminations, inclusions or other discontinuities in accordance with ASTM A435, straight beam ultrasonic examination of steel plates, or ASTM A488, straight beam ultrasonic examination of rolled steel structural shapes, as applicable. Test zone to include area 6 inches above and below each beam flange connection. For plates, any discontinuity causing a total loss of back reflection not contained within 3/8-inch diameter circle, or one-half thickness of plate, whichever is greater, will be rejected. For rolled shapes, ASTM A488, Level 1 criteria applies. Testing will be performed on material prior to fabrication, after fabrication, and after final welding of beam.
  - f. 1/4-K area welds shall be MTY no sooner than 48 hours after completion of weld.
5. Amperage, voltage, polarity and electrode stick out will



ROOF FRAMING PLAN NOTES

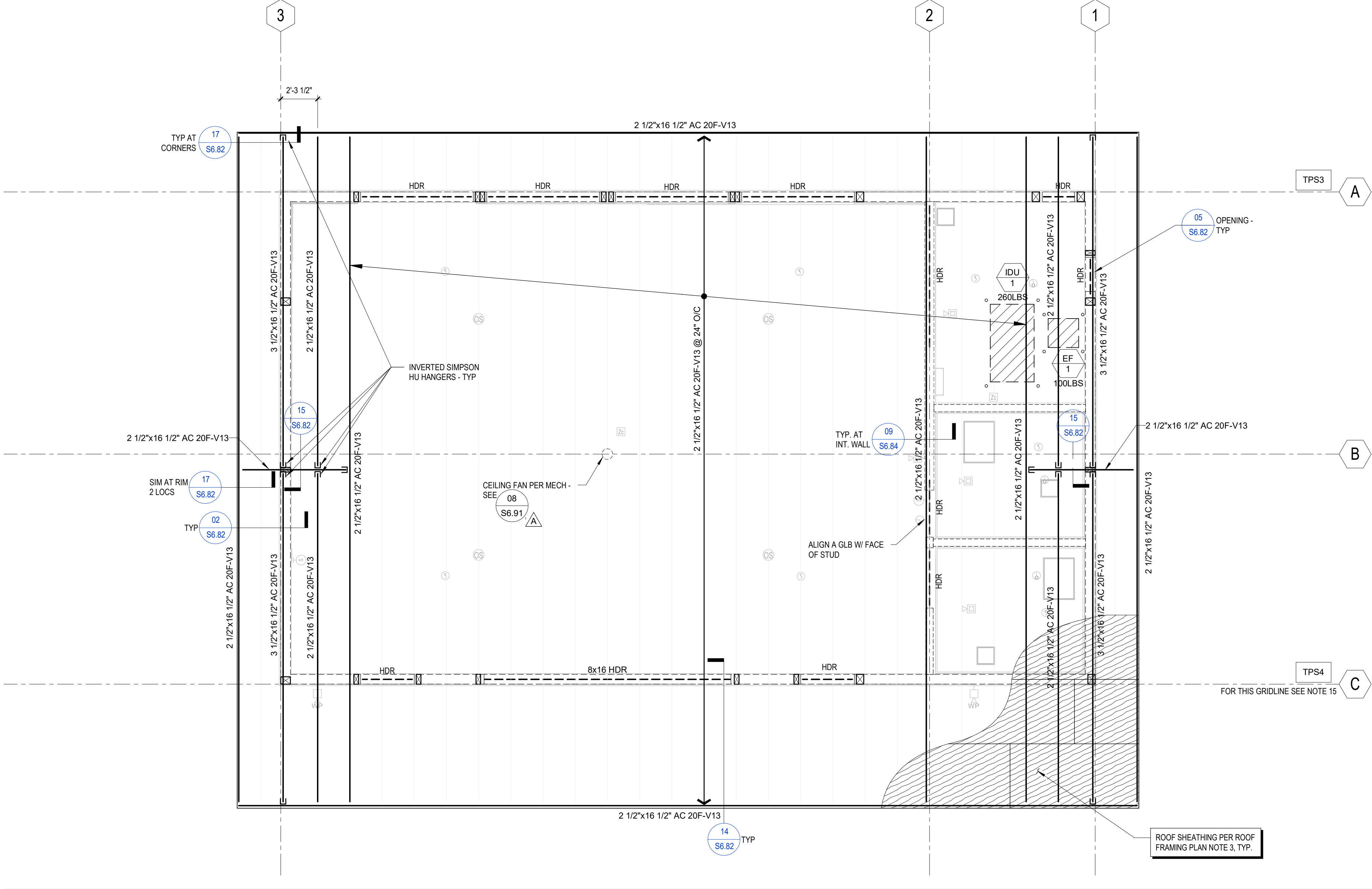
- FOR GENERAL NOTES and TYPICAL DETAILS SEE S0 and S6 SERIES SHEETS RESPECTIVELY.
- SEE ARCHITECTURAL DRAWINGS FOR TOP OF ROOF SHEATHING ELEVATIONS, TOP OF PARAPET ELEVATIONS, ROOF SLOPES, ROOF DRAINS, SCUPPERS, and OVERFLOWS NOT INDICATED ON STRUCTURAL DRAWINGS. DETERMINE INTERMEDIATE TOP OF ROOF SHEATHING ELEVATIONS BY USING STRAIGHT-LINE INTERPOLATION. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF ROOF MOUNTED EQUIPMENT, ROOF SUSPENDED EQUIPMENT, and ROOF OPENINGS FOR DUCTWORK and VENTILATION NOT INDICATED ON STRUCTURAL DRAWINGS.
- ROOF SHEATHING CONSTRUCTION UNLESS INDICATED OTHERWISE: 19/32" APA RATED STRUCTURAL I OSB SHEATHING W/ 10d @ 4" O/C B.N. - 10d @ 6" O/C E.N. - 10d @ 12" O/C F.N. - BLOCK ALL EDGES - SEE DETAIL 01/S6.84.
- PROVIDE 2 ROWS PLYWOOD B.N. TO DOUBLE JOISTS and DOUBLE RAFTERS
- PROVIDE OPENINGS IN ROOF UP TO 4'-0" SQUARE PER DETAIL 03/S6.84.
- FOR EQUIPMENT ANCHORAGE AT ROOF SEE 09/S6.91 and 11/S6.91
- SEE ARCH'L FOR EXTENT OF HARD CEILINGS - CONSTRUCT CEILING JOIST PER DETAIL 06/S6.84
- SOLID SAWN HANGERS SHALL BE SIMPSON U HANGERS, U.N.O.
- NOT USED.
- GLULAM BEAM HANGERS SHALL BE SIMPSON GLS OR WP HANGERS, U.N.O.
- FOR TYPICAL TOP PLATE SPLICE, SEE DETAIL 03A/S6.82, U.N.O.
- SEE 07/S6.84 FOR GLB END JOINT REQUIREMENTS.
- PROVIDE MODIFICATIONS TO HANGERS (I.E. SKEWED, SLOPED SEAT, OFFSET TOP-PLANGE, ETC.) AS REQUIRED TO PROPERLY FRAME SKEWED AND/OR SLOPED FRAMING MEMBERS.
- AT LOCATIONS OF DOUBLE JOIST PROVIDE DOUBLE WIDE HANGER, OF SAME TYPE AS REQUIRED FOR SINGLE MEMBER, TO PROPERLY SUPPORT DOUBLE MEMBER.
- PROVIDE 2.0 E 1 3/4"x1 1/4" MICROLAM LVL DOUBLE TOP PLATE (ICC ESR-1387)

ROOF FRAMING LEGEND

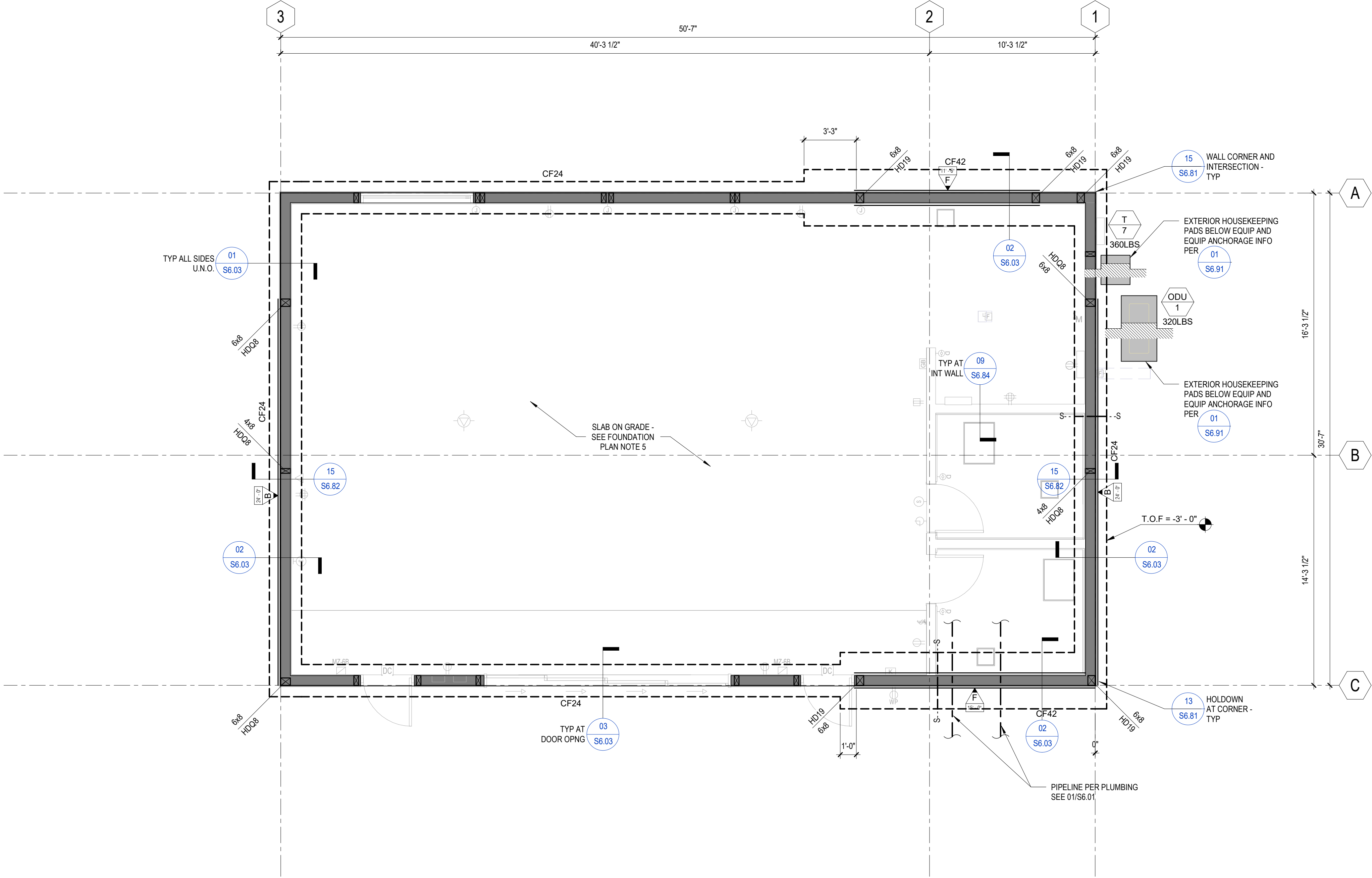
- INDICATES BEARING STUD WALL and/or SHEAR STUD WALL BELOW (NON-BEARING WALLS NOT SHOWN FOR CLARITY)
- INDICATES DOUBLE TOP PLATE SPLICE MARK REQUIRED FULL LENGTH OF WALL WHERE PLATE SPLICES OCCUR - SEE SCHEDULE 03/S6.82 - IF NO MARK INDICATED, SPLICE PLATES PER MARK TPS1
- INDICATES HEADER OVER OPENING IN STUD WALL BELOW - FOR JAMB and HEADER SIZE and CONSTRUCTION SEE 01/S6.81, UNLESS INDICATED OTHERWISE - PROVIDE JAMB POST OF MATERIAL SCHEDULED EVEN IF NOT SHOWN ON PLANS
- INDICATES ROOF RAFTER OR JOIST MARK
- INDICATES EXTENT OF RAFTER OR JOISTS
- INDICATES SPAN OF RAFTER OR JOISTS
- INDICATES MECHANICAL UNIT MARK
- INDICATES MECHANICAL UNIT WEIGHT
- INDICATES DOUBLE RAFTER OR JOISTS MATCHING FRAMING SIZE

DESIGN LOADS

LIVE LOAD ROOF (REDUCIBLE) 20 PSF



ROOF FRAMING PLAN 1/4" = 1'-0" 07



FOUNDATION PLAN 1/4" = 1'-0" 05

FOUNDATION PLAN NOTES

- FOR GENERAL NOTES and TYPICAL DETAILS SEE S0 and S6 SERIES SHEETS RESPECTIVELY.
- SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, and PLUMBING DRAWINGS FOR TOP OF STRUCTURAL CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, CURBS, DRAINS, PADS, DECK EDGE LOCATIONS, ALL OVERALL DIMENSIONS, and LOCATIONS OF OPENINGS IN WALLS and SLABS NOT INDICATED ON STRUCTURAL DRAWINGS.
- CENTER CONTINUOUS FOOTINGS ON LOAD BEARING, SHEAR, and PERIMETER WALLS U.N.O.
- TOP OF SPREAD FOOTINGS and CONTINUOUS FOOTINGS SHALL BE 1'-6" BELOW 0'-0" (FINISH FLOOR) ELEVATION UNLESS NOTED OTHERWISE.
- BUILDING SLAB ON GRADE: 5" THICK W/ #4 @ 18" O/C EACH WAY AT CENTER OF SLAB OVER 2" SAND LAYER OVER 15-MIL VAPOR BARRIER and UNDISTURBED OR IMPROVED SOIL IF REQUIRED BY A LICENSED GEOTECHNICAL ENGINEER ON SITE. PROVIDE CONSTRUCTION JOINTS OR WEAKENED PLANE JOINTS IN SLAB ON GRADE PER DETAIL 06/S6.01.
- WHERE CONTINUOUS FOOTINGS INTERSECT, CONSTRUCT PER 09/S6.01, CONTINUE REINF. CAGE THRU INTERSECTING SPREAD FOOTINGS - WHERE GRADE BEAMS and CONTINUOUS FOOTINGS TERMINATE AT SPREAD FTGS, EXTEND REINF. CAGE TO FAR SIDE OF SPREAD FTG, and PROVIDE STD. 90° HOOKS AT LONGIT. BARS.
- EXTERIOR WALL DIMENSIONS ARE TO FACE OF EXTERIOR FACE OF STUD. INTERIOR WALL DIMENSIONS ARE TO THE FACE OF STUD, U.N.O.
- IN NO CASE SHALL PIPES, CONDUITS, OR SLEEVES BE EMBEDDED IN SPREAD FOOTINGS OR WITHIN TOP OR BOTTOM THIRD OF GRADE BEAMS UNLESS SPECIFICALLY DETAILED ON STRUCTURAL DRAWINGS.
- SEE LEGEND FOR ADDITIONAL INFORMATION.
- PROVIDE 2x6 AT 16" O/C AT INTERIOR STUDS.

FOUNDATION LEGEND

- INDICATES TOP OF STRUCTURAL CONCRETE SLAB ON GRADE ELEVATION (TOC) - SEE ARCHITECTURAL FOR TOC IF NO ELEVATION INDICATED
- INDICATES CONCRETE CURB OR HOUSEKEEPING PAD - CONSTRUCT PER 60/S6.01 U.N.O.
- INDICATES STEP IN CONTINUOUS FOOTING OR GRADE BEAM - SEE 09/S6.01
- INDICATES TOP OF FOOTING ELEVATION
- INDICATES POST ABOVE RUNNING FULL HEIGHT TO TOP PLATES AT ROOF OR TOP OF PARAPET ABOVE (RUN UNINTERRUPTED TO DOUBLE TOP PLATES AT BALLOON-FRAMED WALLS) - PROVIDE (2) SIMPSON AS99 TOP (TO DOUBLE TOP PLATES) and BOTTOM (TO SILL PLATE) WHERE POST OCCURS IN STUD WALL UNLESS OTHER HARDWARE IS INDICATED - PROVIDE PROPRIETARY COMPOSITE LUMBER "PSL" POSTS WHERE POST LENGTHS EXCEED COMMONLY AVAILABLE CONVENTIONAL LUMBER LENGTHS - SEE GENERAL NOTES SECTION L.3 FOR PARALLAM "PSL" POST REQUIREMENTS
- INDICATES HOLDOWN MARK - SEE DETAIL 09/S6.82 WHERE HOLDOWN OCCURS
- INDICATES PLYWOOD SHEATHING AT SHEAR WALL WHERE OCCURS
- INDICATES NOMINAL STUD WIDTH OF WALL - FOR EXAMPLE, "6W" INDICATES 6" NOMINAL STUD WALL WIDTH - IF NOTHING INDICATED, STUD WALL NOMINAL WIDTH SHALL BE 6" - PROVIDE 2" NOMINAL WIDTH STUDS @ 24" O/C UNLESS INDICATED OTHERWISE ON SHEAR WALL SCHEDULE OR PLANS
- INDICATES SHEAR WALL HORIZONTAL DESIGN LENGTH, ACTUAL LENGTH OF WALL MAY EXCEED, BUT SHALL NOT BE LESS THAN, THE LENGTH SHOWN
- INDICATES SHEAR WALL MARK - FOR SHEAR WALL CONSTRUCTION SEE 03/S6.81 - PROVIDE SHEAR WALL TYPE "A" CONSTRUCTION at EXTERIOR SIDES OF ALL PERIMETER WALLS UNLESS NOTED OTHERWISE INCLUDING PORTION OF WALL ABOVE and BELOW OPENINGS - VERTICAL EXTENT FOR SHEAR WALLS INDICATED ON THIS PLAN IS FROM SLAB ON GRADE UP TO BOTTOM OF ROOF OR TOP OF PARAPET/SCREEN WALL
- INDICATES STRUCTURAL LOAD BEARING, SHEAR, OR PERIMETER WOOD STUD WALL - CONSTRUCT PER 01/S6.81 AT OPENINGS - DO NOT SPLICE STUDS UNLESS SPECIFICALLY DETAILED OR INDICATED
- INDICATES INTERIOR, NON-BEARING WOOD STUD WALL ABOVE - CONSTRUCT PER DETAILS 01 and 19/S6.81 and 09/S6.84 and ARCHITECTURAL DRAWINGS
- CFXX INDICATES CONTINUOUS FOOTING MARK - SEE SCHEDULE THIS SHEET

CONTINUOUS FOOTING SCHEDULE

| Mark | FOOTING SIZE (WIDTH x DEPTH) | REINFORCING                  |                     |
|------|------------------------------|------------------------------|---------------------|
|      |                              | CONTINUOUS LONGITUDINAL BARS | TRANSVERSE BARS     |
| CF24 | 2'-0"x1'-6"                  | (3) #5 TOP & BOTTOM          | #5 @ 18" O/C BOTTOM |
| CF42 | 3'-6"x1'-6"                  | (3) #5 TOP & BOTTOM          | #5 @ 18" O/C BOTTOM |

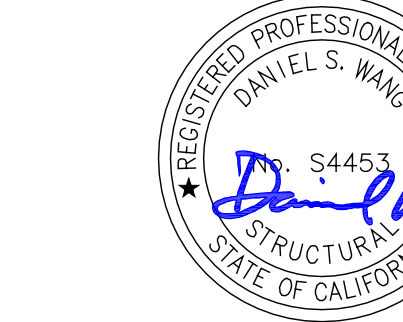


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949-261-1001 Office

LPA Design Studios, Inc.

5301 California Avenue, Suite 100 Irvine, California 92617



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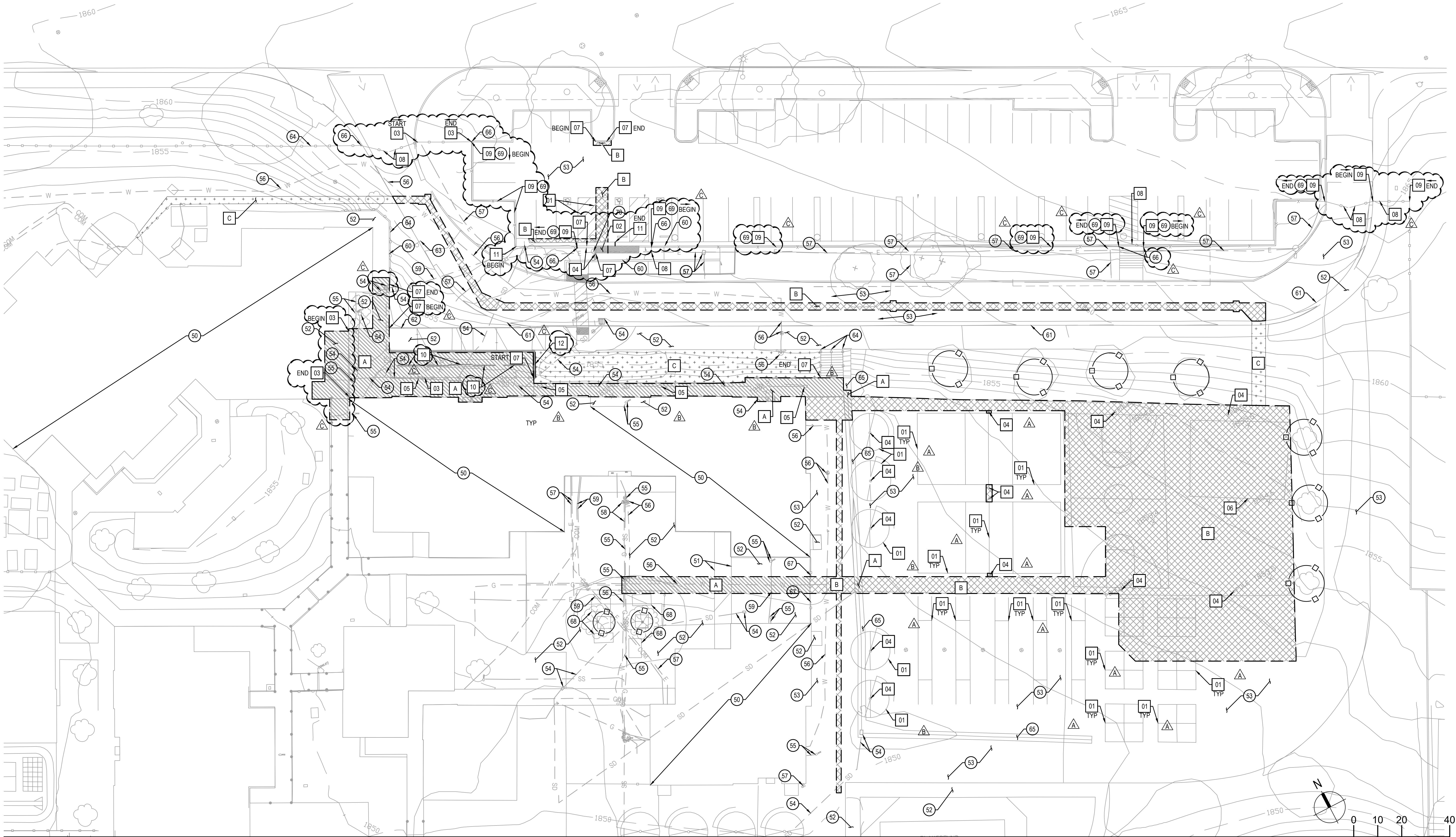
| Date       | 07/31/2025                                   |
|------------|--|
| Revision   | A. ADDENDUM A<br>C. ADDENDUM C               |
| Date       | 03/20/2023<br>04/12/2023                     |
| Submital   | SITE CONSTRUCTION DOCUMENTS<br>CSC SUBMITTAL |
| Job Number | 30899  |
| Checked By | Checker                                      |
| Scale      | As indicated                                 |

FOUNDATION and ROOF FRAMING PLANS









DEMOLITION PLAN 1" = 20'

DEMOLITION LEGEND

| LABEL | DESCRIPTION  |
|-------|--|
|       | REMOVE (E) CONCRETE PAVEMENT/SIDEWALK.   |
|       | REMOVE (E) AC PAVEMENT.  |
|       | REMOVE (E) LANDSCAPING. SEE LANDSCAPE AND IRRIGATION PLANS FOR IMPROVEMENTS.         |
|       | REMOVE (E) TREE. SEE DEMOLITION NOTE 5 SHEET C0.01.                                  |
|       | (E) TREE TO REMAIN AND BE PROTECTED. SEE DEMOLITION NOTE 5 SHEET C0.01 AND 10/L7.02. |
|       | SAWCUT (E) PAVEMENT AS NEEDED. SEE DEMOLITION NOTE 6 AND 10 SHEET C0.01.             |
|       | APPROXIMATE LIMIT OF WORK LINE.  |
|       | REMOVE (E) UTILITY. SEE DEMOLITION NOTES 2, 4, 8, AND 9 SHEET C0.01.                 |

DEMOLITION KEYNOTES

| KEY NOTE | DESCRIPTION   |
|----------|---|
| 01       | REMOVE (E) STRIPING.  |
| 02       | REMOVE (E) TRUNCATED DOMES.   |
| 03       | REMOVE (E) FENCE AND FOOTINGS. SEE LANDSCAPE PLANS FOR IMPROVEMENTS.  |
| 04       | REMOVE (E) POLES AND FOOTINGS. PATCH EXISTING ASPHALT.  |
| 05       | REMOVE (E) STORM DRAIN PIPE AND APPURTENANCES. SEE UTILITY PLAN FOR IMPROVEMENTS.   |
| 06       | REMOVE AND RELOCATE (E) STORAGE CONTAINER. CONTRACTOR TO COORDINATE WITH SCHOOL DISTRICT ON RELOCATION.   |
| 07       | REMOVE (E) CONCRETE CURB.   |
| 08       | REMOVE (E) FENCE GATE. REMOVE (E) AIRPHONE CONDUIT PER ELECTRICAL PLAN.   |
| 09       | REMOVE (E) FENCE MESH AND CUT EXISTING POLE HEIGHT TO 42". SEE LANDSCAPE MATERIAL PLANS AND ELEVATIONS FOR ADDITIONAL INFORMATION OF REMOVAL EXTENTS. |
| 10       | REMOVE (E) BIKE RACK.   |
| 11       | REMOVE AND REPLACE (E) CONCRETE GUTTER IN LIKE KIND.  |
| 12       | REMOVE (E) RETAINING WALL. PROTECT (E) FOOTING AND REUSE FOOTING FOR PROPOSED RETAINING WALL.   |

PROTECTION KEYNOTES

| KEY NOTE | DESCRIPTION  |
|----------|--|
| 50       | PROTECT (E) BUILDING, FOUNDATION AND OTHER STRUCTURAL FEATURES AND BUILDING UTILITIES.                     |
| 51       | PROTECT (E) CANOPY AND COLUMNS, AND OTHER STRUCTURAL FEATURES AND CANOPY UTILITIES.                        |
| 52       | PROTECT (E) CONCRETE PAVEMENT/SIDEWALK.  |
| 53       | PROTECT (E) AC PAVEMENT.   |
| 54       | PROTECT (E) STORM DRAIN FACILITIES.  |
| 55       | PROTECT (E) SANITARY SEWER FACILITIES.   |
| 56       | PROTECT (E) WATER SERVICE FACILITIES.  |
| 57       | PROTECT (E) ELECTRICAL FACILITIES.   |
| 58       | PROTECT (E) GAS FACILITIES.  |
| 59       | PROTECT (E) TELECOMMUNICATION FACILITIES.  |
| 60       | PROTECT (E) CURB.  |
| 61       | PROTECT (E) CURB AND GUTTER  |
| 62       | PROTECT (E) RETAINING WALL.  |
| 63       | PROTECT (E) MONUMENT AND/OR SIGN POST.   |
| 64       | PROTECT (E) FENCE AND/OR HANDRAIL.   |
| 65       | PROTECT (E) GUTTTER.   |
| 66       | PROTECT (E) POLES AND FOOTINGS.  |
| 67       | PROTECT (E) FENCE GATES.   |
| 68       | PROTECT (E) BENCHES.   |
| 69       | PROTECT (E) FENCE POST, MOW CURB AT FENCE, AND FOOTINGS.   |
| 70       | (E) LIGHTING POST AND FOOTINGS. CONTRACTOR TO FIELD VERIFY LOCATION, NOTIFY ENGINEER ON ANY DISCREPANCIES. |



ARCHITECTURE ENGINEERING INTERIORS  
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,  
Suite 100  
Irvine, California 92617



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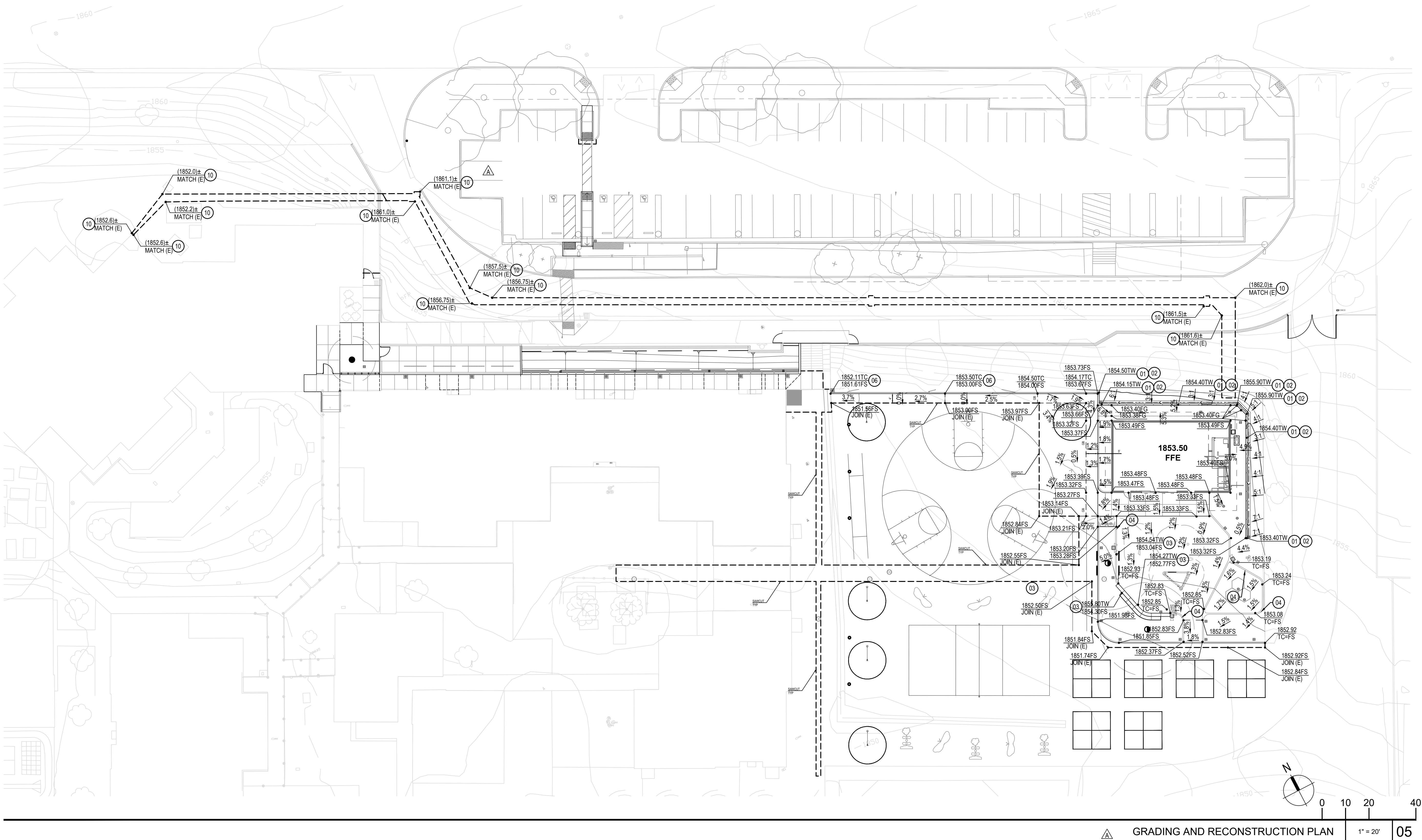
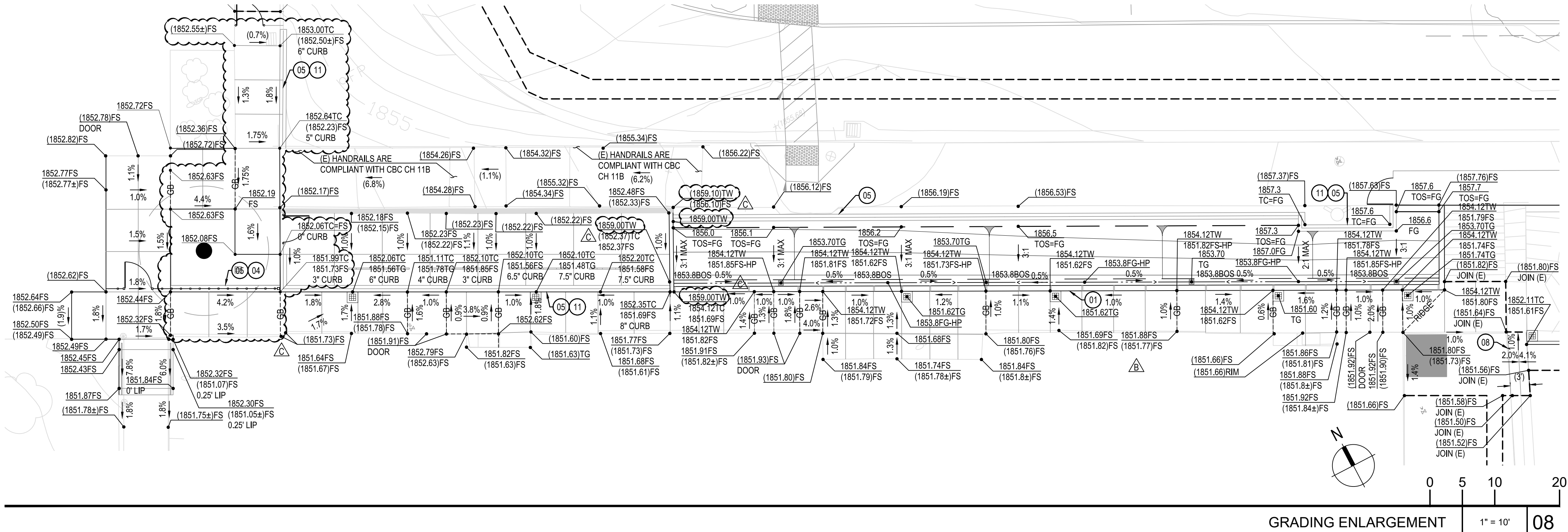
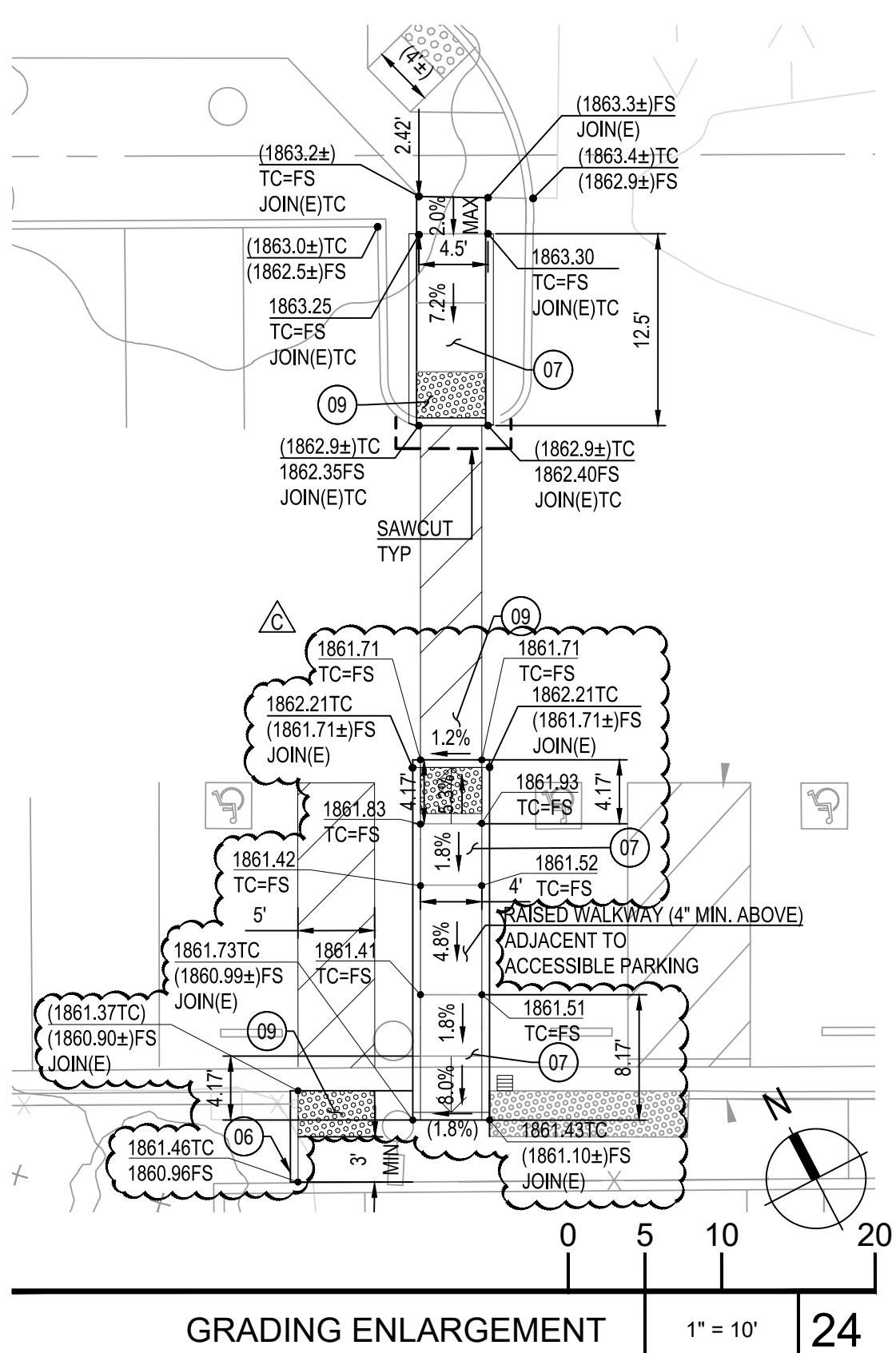
| Revision   | Date       |
|------------|------------|
| ADDENDUM A | 07/13/2025 |
| ADDENDUM B | 08/02/2025 |
| ADDENDUM C | 08/22/2025 |

| Submittal             | Date       |
|-----------------------|------------|
| 100% SCHEMATIC DESIGN | 02/16/2023 |
| DSA SUBMITTAL         | 04/19/2023 |
| DSA BACK CHECK        | 06/07/2023 |

|                |            |
|----------------|------------|
| Job Number     | 30899      |
| Date Published | 09/22/2025 |
| Checked By     | A.C.       |
| Scale          | 1" = 20'   |

DEMOLITION PLAN





SYMBOL

DESCRIPTION

PA

PLANTING AREA  
SEE LANDSCAPE PLAN DETAILS FOR GRADES ADJACENT TO HARDCAPE

---

APPROXIMATE LIMIT OF WORK

---GB---

GRADE BREAK

---

SAWCUT (E) PAVEMENT AS NEEDED. SEE DEMOLITION PLAN

---

FLOWLINE

GRADING CONSTRUCTION NOTES

KEY

NOTE

01

CONSTRUCT RETAINING WALL PER LANDSCAPE AND STRUCTURAL PLANS. SEE DETAIL 17, SHEET L5.03. RETAINING HEIGHT VARIES BETWEEN 12" TO 30". SEE PLAN FOR TOP OF WALL AND FINISHED SURFACE ELEVATIONS.

02

CONSTRUCT RETAINING WALL VALLEY GUTTER ON RETAINED SIDE OF WALL PER DETAIL 07, SHEET C7.01.

03

CONSTRUCT SEAT WALLS PER LANDSCAPE PLANS.

04

CONSTRUCT MOW CURB PER LANDSCAPE PLANS.

05

CONSTRUCT FENCE PER LANDSCAPE PLANS.

06

CONSTRUCT VERTICAL CURB PER DETAIL 08, SHEET C7.01.

07

CONSTRUCT ACCESSIBLE CURB RAMP PER DETAIL 12, SHEET C7.01.

08

CONSTRUCT VALLEY GUTTER PER DETAIL 16, SHEET C7.01.

09

CONSTRUCT TRUNCATED DOMES PER DETAIL 13, SHEET C7.01.

10

ELECTRICAL CONDUIT TRENCHING. SEE SHEET E1.10.

11

CONSTRUCT RETAINING CURB PER LANDSCAPE AND STRUCTURAL PLANS. SEE DETAIL 15, SHEET L5.04. SEE PLAN FOR TOP OF CURB AND FINISHED SURFACE ELEVATIONS.

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ARCHITECTURE   ENGINEERING   INTERIORS  
LANDSCAPE ARCHITECTURE   PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,  
Suite 100  
Irvine, California 92617

REGISTERED PROFESSIONAL  
LANDSCAPE ARCHITECT  
R.C.E. 68369  
EXP. 9-30-27  
STATE OF CALIFORNIA

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| Revision   | Date       | Submitted             |
|------------|------------|-----------------------|
| ADDENDUM A | 07/17/2025 | 100% SCHEMATIC DESIGN |
| ADDENDUM B | 04/19/2023 | DSA SUBMITTAL         |
| ADDENDUM C | 09/07/2023 | DSA BACK CHECK        |

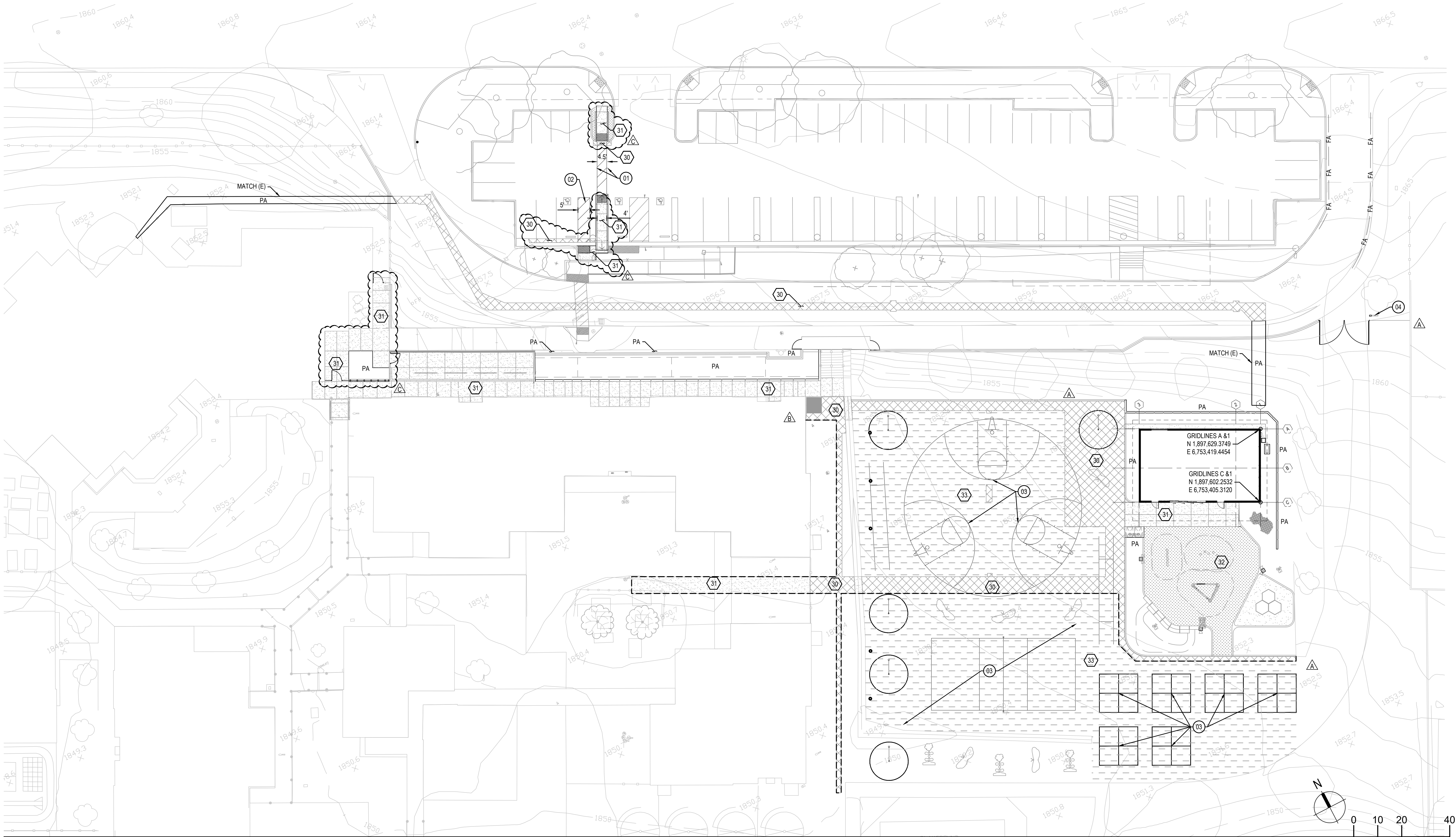
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| Date Published | 09/22/2025 |
| Checked By     | A.C.       |
| Scale          | AS SHOWN   |

GRADING AND  
RECONSTRUCTION  
PLAN









HORIZONTAL CONTROL, PAVING, AND STRIPING PLAN

1" = 20'

#### PAVING NOTES:

- SEE LANDSCAPE PLANS FOR PAVERS, LOCATION AND TYPE OF CONCRETE WALKS AND HARDSCAPE INCLUDING DETAILS FOR CONCRETE FINISHES, CONTROL JOINTS AND EXPANSION JOINTS.
- VERIFY ALL VEHICULAR AND NON-VEHICULAR LIMITS WITH LANDSCAPE PLANS.

#### PAVING LEGEND

| SYMBOL | DESCRIPTION   |
|--------|---|
|        | HEAVY DUTY AC PAVEMENT<br>4" AC OVER 6" CL II AB PER DISTRICT DESIGN STANDARDS.   |
|        | PEDESTRIAN CONCRETE PAVEMENT<br>4" PCC OVER 4" CL II AB PER DISTRICT DESIGN STANDARDS.  |
|        | RUBBERIZED PLAY SURFACING<br>2" AC OVER 4" CL II AB PER DISTRICT DESIGN STANDARDS. SEE LANDSCAPE PLANS FOR SURFACE MATERIAL AND EDGING DETAILS. |
|        | AC PAVEMENT SLURRY SEAL<br>SLURRY SEAL PER LATEST GREENBOOK EDITION SECTION 302.4.  |
|        | PLANTING AREA<br>SEE LANDSCAPE PLANS.   |

#### STRIPING CONSTRUCTION NOTES

- | KEY NOTE | DESCRIPTION |
|----------|-------------|
|----------|-------------|
- PAINT 4" WIDE WHITE ACCESSIBLE PATH STRIPING PER DETAIL 14, SHEET C7.01.
  - PAINT LOADING AND UNLOADING ZONE ACCESS AISLE BORDER BLUE (COLOR NO. 15090 PER FEDERAL STD. NO. 555) STRIPING, 4" WIDE.
  - PROVIDE PAVEMENT STRIPING PER LANDSCAPE PLANS.
  - FIRE LANE NO PARKING SIGN PER DETAIL 18, SHEET C7.01

#### STRIPING LEGEND

| SYMBOL | DESCRIPTION   |
|--------|---|
|        | FIRE ACCESS. PAINT CURB RED PER DETAIL 15, SHEET C7.01. |

#### STRIPING NOTES

- ALL EXISTING STRIPING AND MARKINGS TO REMAIN UNLESS OTHERWISE NOTED. CONFLICTS BETWEEN EXISTING AND PROPOSED SHALL BE RESOLVED BY THE ENGINEER.
- REMOVAL OF EXISTING STRIPING AND PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY WET SANDBLASTING OR OTHER APPROVED GRINDING METHOD PRIOR TO INSTALLATION OF NEW STRIPING. ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, AND RAISED PAVEMENT MARKERS SHALL BE REMOVED.
- PAVEMENT THAT IS DAMAGED DUE TO THE REMOVAL OF MARKERS OR STRIPING SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER.

#### HORIZONTAL CONTROL NOTES:

THIS HORIZONTAL CONTROL PLAN ESTABLISHES THE FOLLOWING TO BE USED AS BASE CONTROL FOR CONSTRUCTION STAKING.

- PRIOR TO STAKING ANY BUILDING STRUCTURE, SURVEYOR SHALL VERIFY THAT THE GRIDS SHOWN ON THIS PLAN MATCHES THE ARCHITECTURAL & STRUCTURAL PLANS.
- TWO COORDINATES ARE PROVIDED TO ESTABLISH THE BUILDING GRID. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR FINAL BUILDING DIMENSIONS.
- IF ANY DISCREPANCIES ARE FOUND DURING CONSTRUCTION STAKING NOTIFY CIVIL ENGINEER IMMEDIATELY.
- SEE LANDSCAPE PLANS FOR DETAILED HARDSCAPE DIMENSIONS.
- SEE LANDSCAPE PLANS FOR LOCATION AND TYPE OF CONCRETE WALKS AND HARDSCAPE INCLUDING DETAILS FOR CONCRETE FINISHES, CONTROL JOINTS AND EXPANSION JOINTS.
- SEE PAVING AND STRIPING PLANS FOR LOCATION AND TYPE OF PAVING AND STRIPING.

#### BENCHMARK

-SEE SHEET C0.01 FOR BENCHMARK.

#### BASIS OF BEARINGS

-SEE SHEET C0.01 FOR BASIS OF BEARINGS.



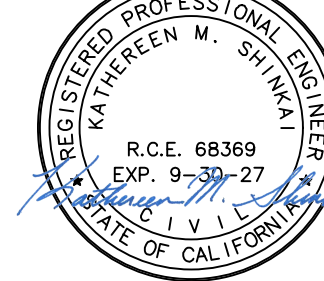
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949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue,  
Suite 100  
Irvine, California 92617



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NORTH VERDEMONT ELEMENTARY SCHOOL

3555 W. MEYERS ROAD  
SAN BERNARDINO, CA 92407

Developed for  
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

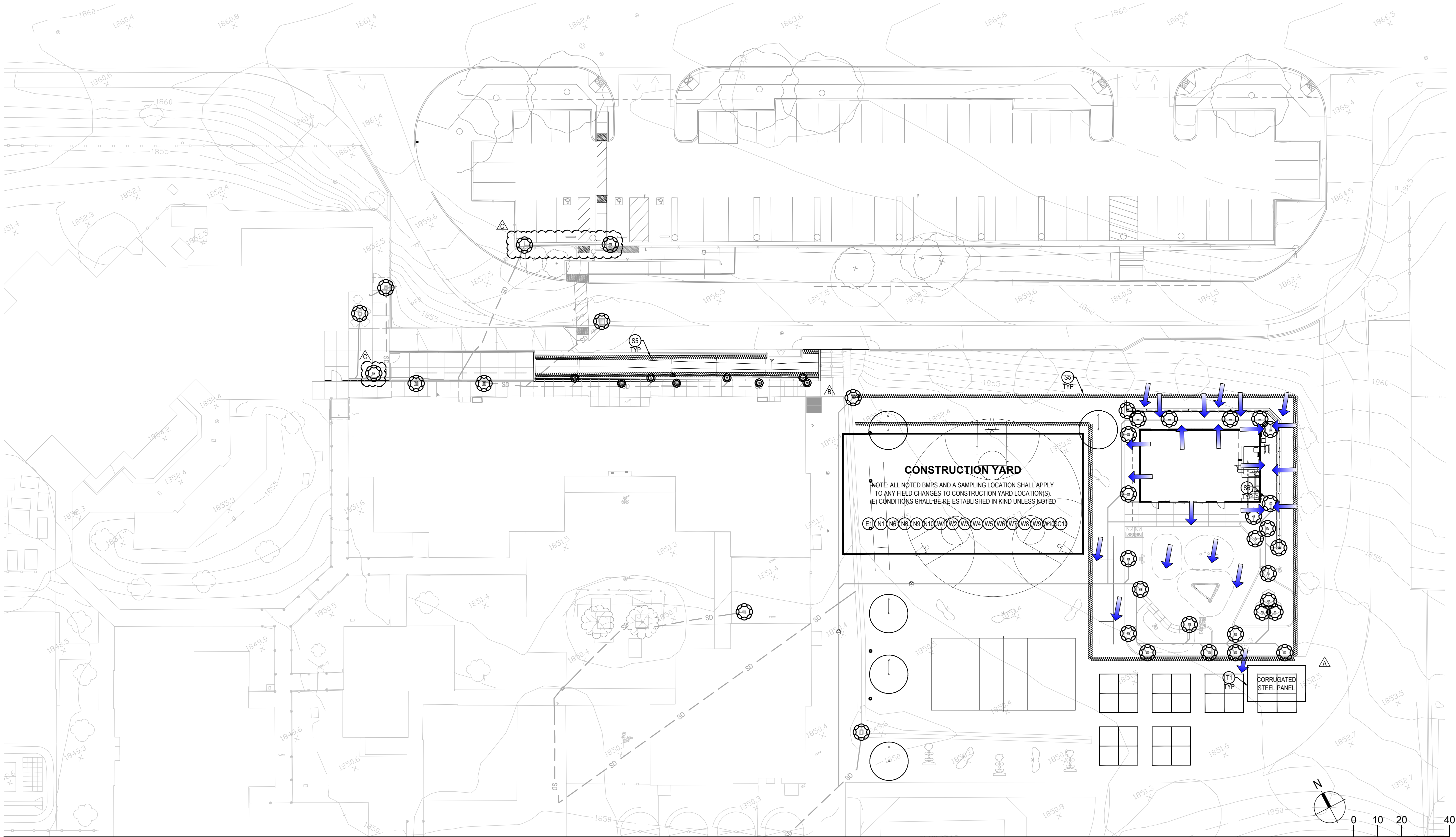
| Revision   | Date       |
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| ADDENDUM A | 07/13/2025 |
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| Submittal             | Date       |
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| 100% SCHEMATIC DESIGN | 02/16/2023 |
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| Job Number     | 30899      |
| Date Published | 09/22/2025 |
| Checked By     | A.C.       |
| Scale          | 1" = 20'   |

HORIZONTAL  
CONTROL, PAVING,  
AND STRIPING PLAN





EROSION CONTROL PLAN 1" = 20'

EROSION CONTROL NOTES

- SEE SHEET C0.01 FOR EROSION AND SEDIMENT CONTROL NOTES.
- SEE SHEET C0.01 FOR BMP MAINTENANCE NOTES.
- ALL BMPs PER CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA)(UNLESS NOTED OTHERWISE) AND ARE AVAILABLE AT [www.casqa.org](http://www.casqa.org).
- BMPs "NOT" CALLED OUT PER PLAN, ARE SHOWN FOR REFERENCE AS BMP OPTIONS PER QSP (QUALIFIED SWPPP PRACTITIONER) FIELD RECOMMENDATIONS.
- AT THE COMPLETION OF PROJECT, CONTRACTOR SHALL REMOVE ALL CONSTRUCTION BMPs FROM SITE AND DISPOSE IN A LEGAL MANNER.

LEGEND

| SYMBOL | DESCRIPTION                                  |
|--------|--|
|        | GRAVEL BAGS AND/OR SANDBAGS PER BMP KEYNOTES |
|        | FIBER ROLL                                   |
|        | APPROXIMATE LIMIT OF GRADING                 |
|        | FLOW DIRECTION                               |

EROSION CONTROL BMPs:

| KEY NOTE | DESCRIPTION                               |
|----------|---|
| (E)      | EC-1, SCHEDULING                          |
| (E)      | EC-2, PRESERVATION OF EXISTING VEGETATION |
| (E16)    | EC-16, NON-VEGETATIVE STABILIZATION       |

SEDIMENT CONTROL BMPs:

|       |                                     |
|-------|-------------------------------------|
| (S)   | SE-3, SEDIMENT TRAP                 |
| (S)   | SE-5, FIBER ROLLS                   |
| (S)   | SE-6, GRAVEL BAG BERM               |
| (S)   | SE-7, STREET SWEEPING AND VACUUMING |
| (S10) | SE-10, STORM DRAIN INLET PROTECTION |

TRACKING CONTROL BMPs:

|     |   |
|-----|---|
| (T) | TC-1, STABILIZED CONSTRUCTION ENTRANCE/EXIT |
| (T) | TC-2, STABILIZED CONSTRUCTION ROADWAY       |
| (T) | TC-3, ENTRANCE/OUTLET TIRE WASH             |

NON-STORMWATER MANAGEMENT CONTROL BMPs:

|       |  |
|-------|--|
| (N)   | NS-1, WATER CONSERVATION PRACTICES       |
| (N)   | NS-3, PAVING AND GRINDING OPERATIONS     |
| (N)   | NS-6, ILLIOT CONNECTION/DISCHARGE        |
| (N)   | NS-7, POTABLE WATER IRRIGATION           |
| (N)   | NS-8, VEHICLE AND EQUIPMENT CLEANING     |
| (N)   | NS-9, VEHICLE AND EQUIPMENT FUELING      |
| (N10) | NS-10, VEHICLE AND EQUIPMENT MAINTENANCE |
| (N12) | NS-12, CONCRETE CURING                   |
| (N13) | NS-13, CONCRETE FINISHING                |

WIND EROSION CONTROL BMPs:

|      |                            |
|------|----------------------------|
| (WE) | WE-1, WIND EROSION CONTROL |
|------|----------------------------|

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL BMPs:

|       |  |
|-------|--|
| (W)   | WM-1, MATERIAL DELIVERY AND STORAGE    |
| (W)   | WM-2, MATERIAL USE                     |
| (W)   | WM-3, STOCKPILE MANAGEMENT             |
| (W)   | WM-4, SPILL PREVENTION AND CONTROL     |
| (W)   | WM-5, SOLID WASTE MANAGEMENT           |
| (W)   | WM-6, HAZARDOUS WASTE MANAGEMENT       |
| (W)   | WM-7, CONTAMINATED SOIL MANAGEMENT     |
| (W)   | WM-8, CONCRETE WASTE MANAGEMENT        |
| (W)   | WM-9, SANITARY/SEPTIC WASTE MANAGEMENT |
| (W10) | WM-10, LIQUID WASTE MANAGEMENT         |



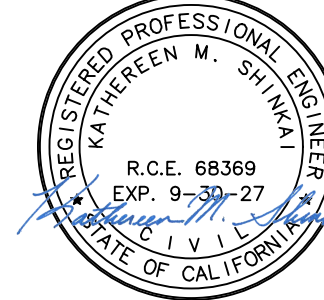
ARCHITECTURE ENGINEERING INTERIORS  
LANDSCAPE ARCHITECTURE PLANNING

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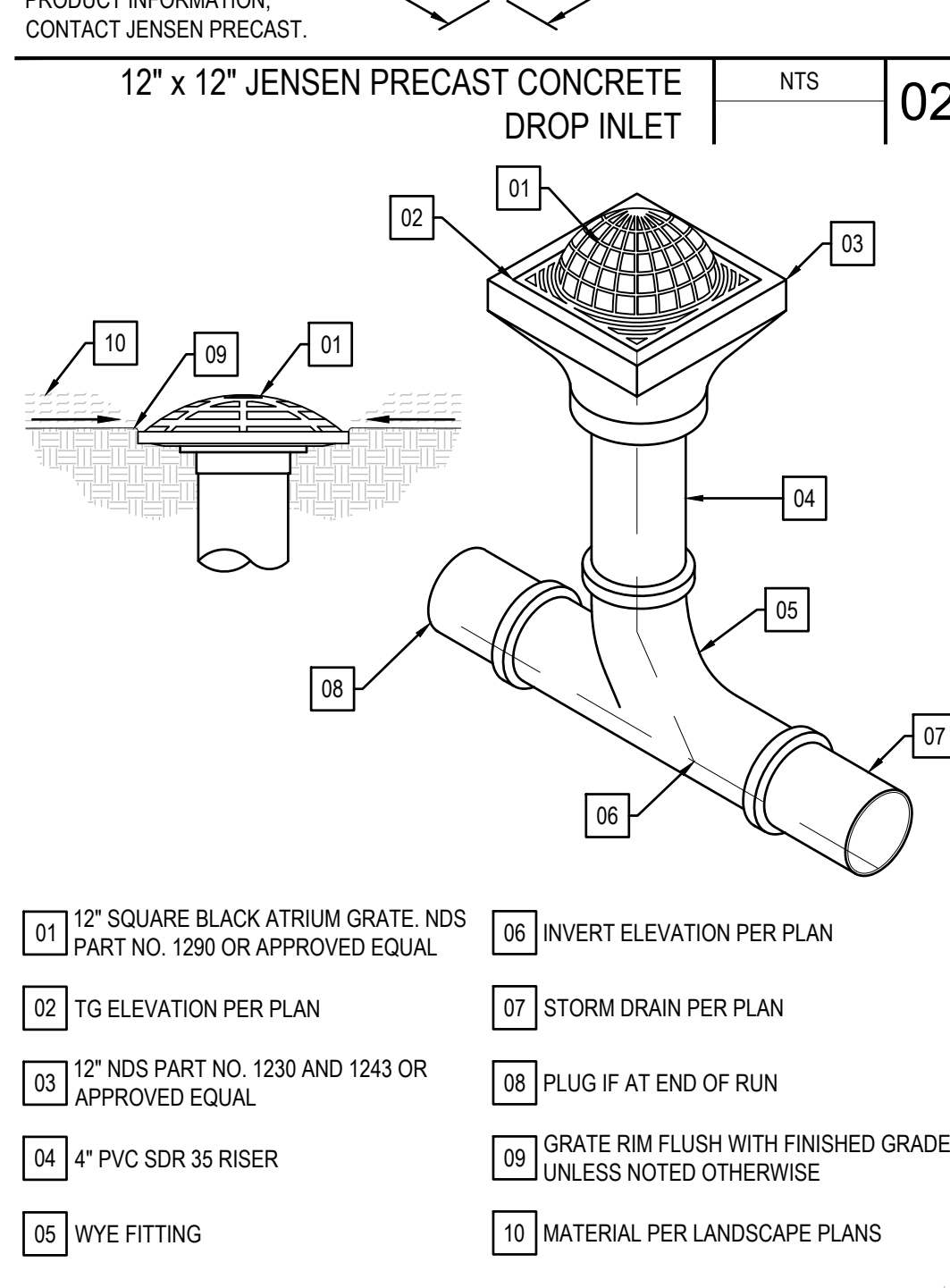
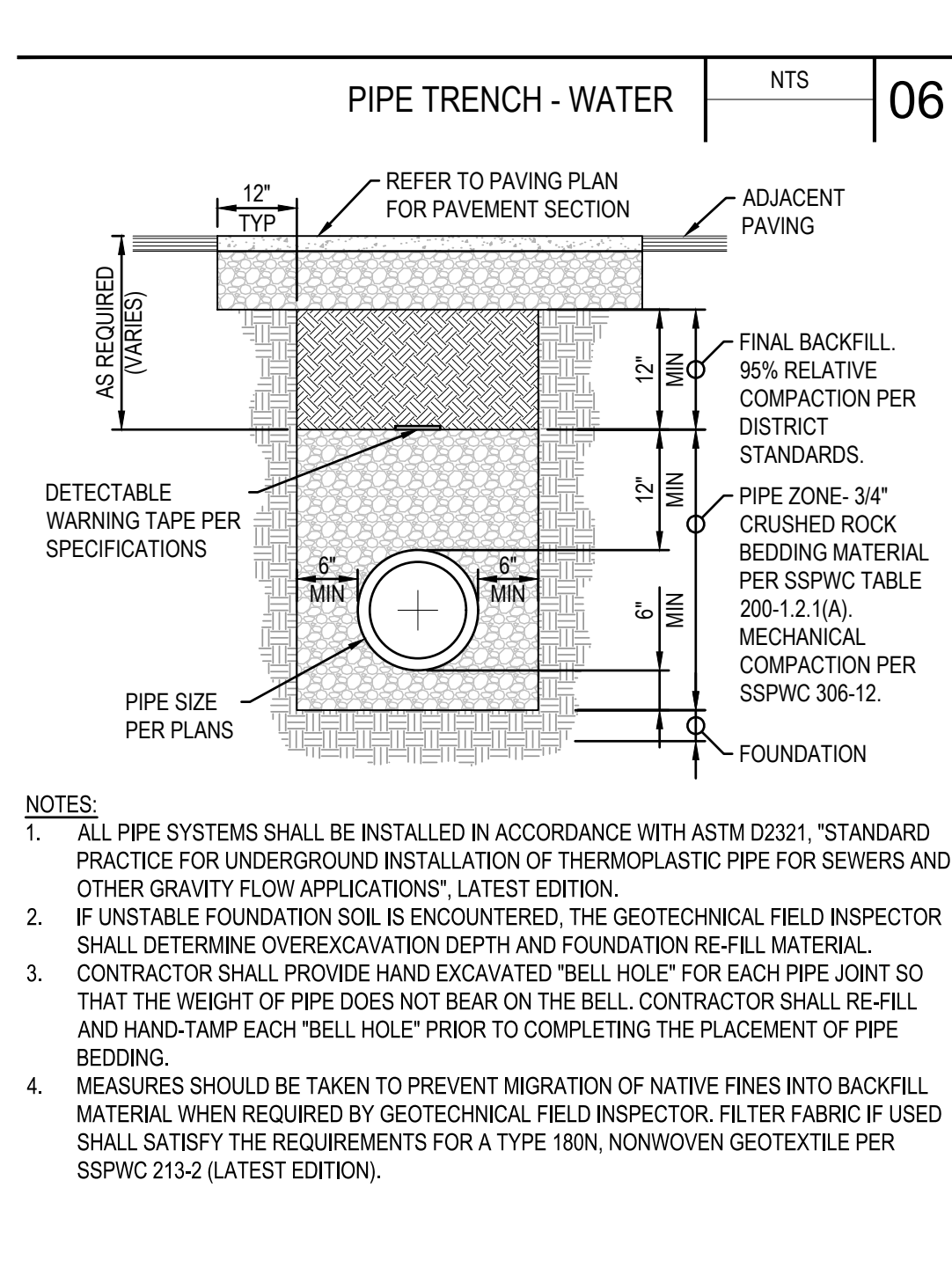
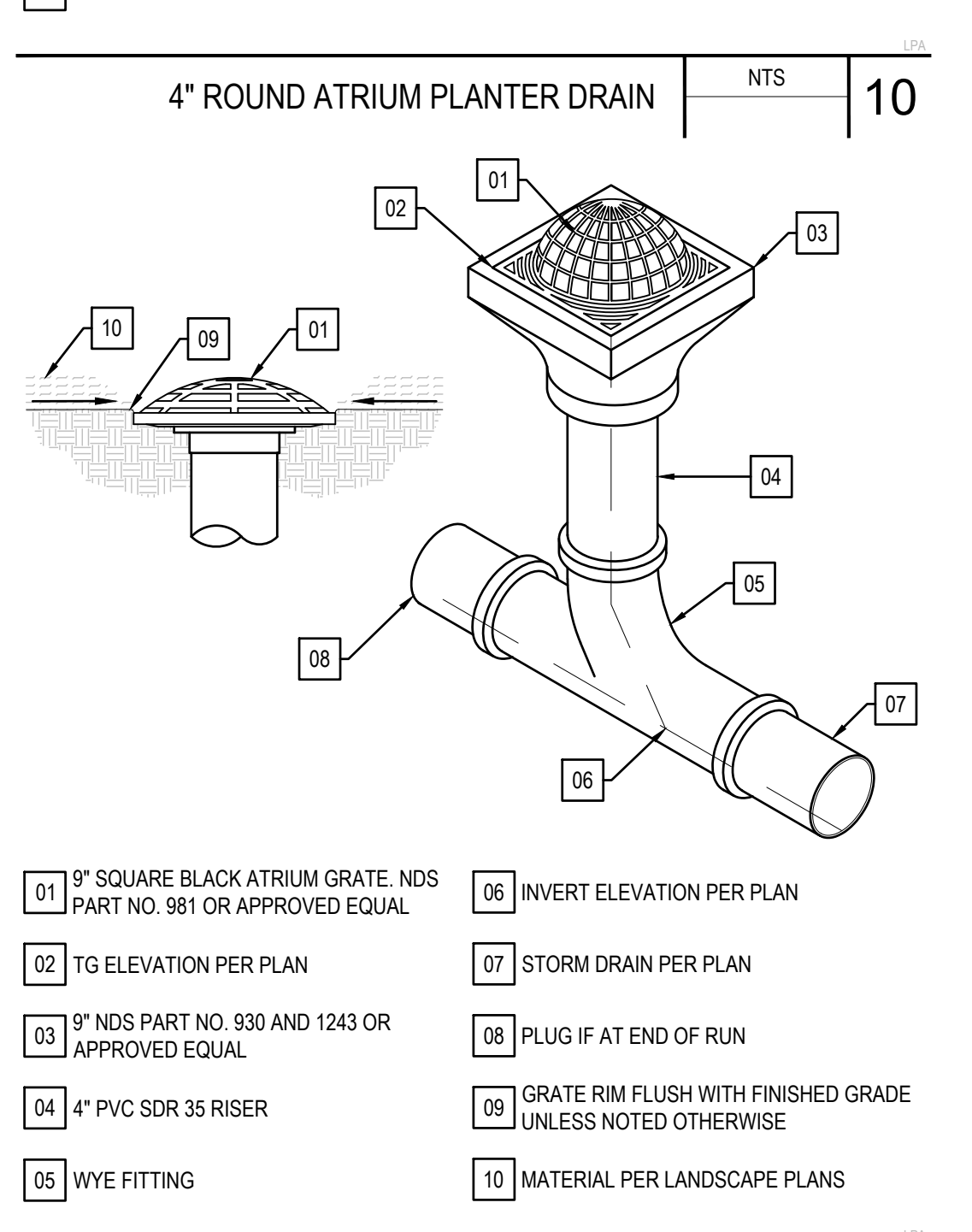
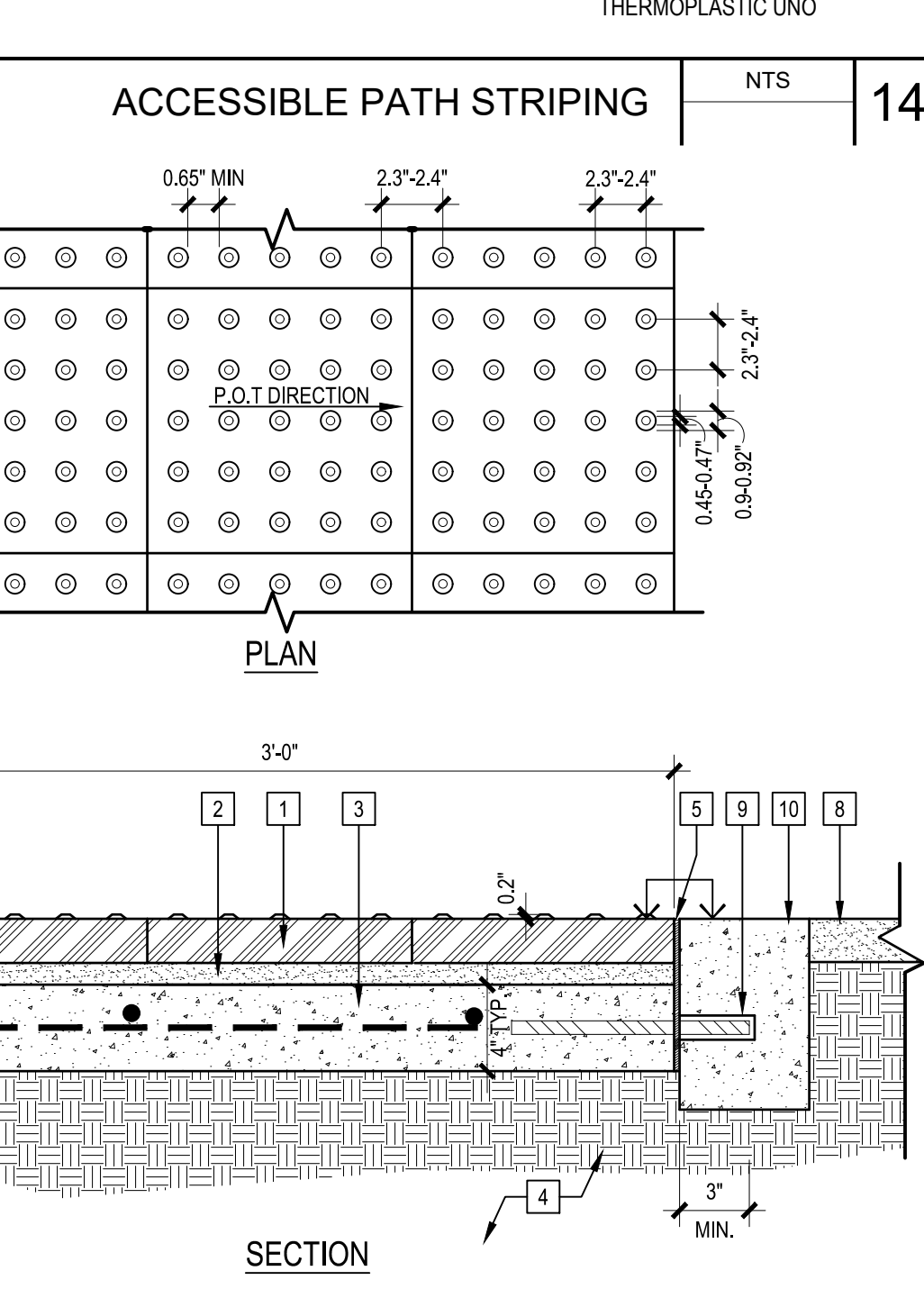
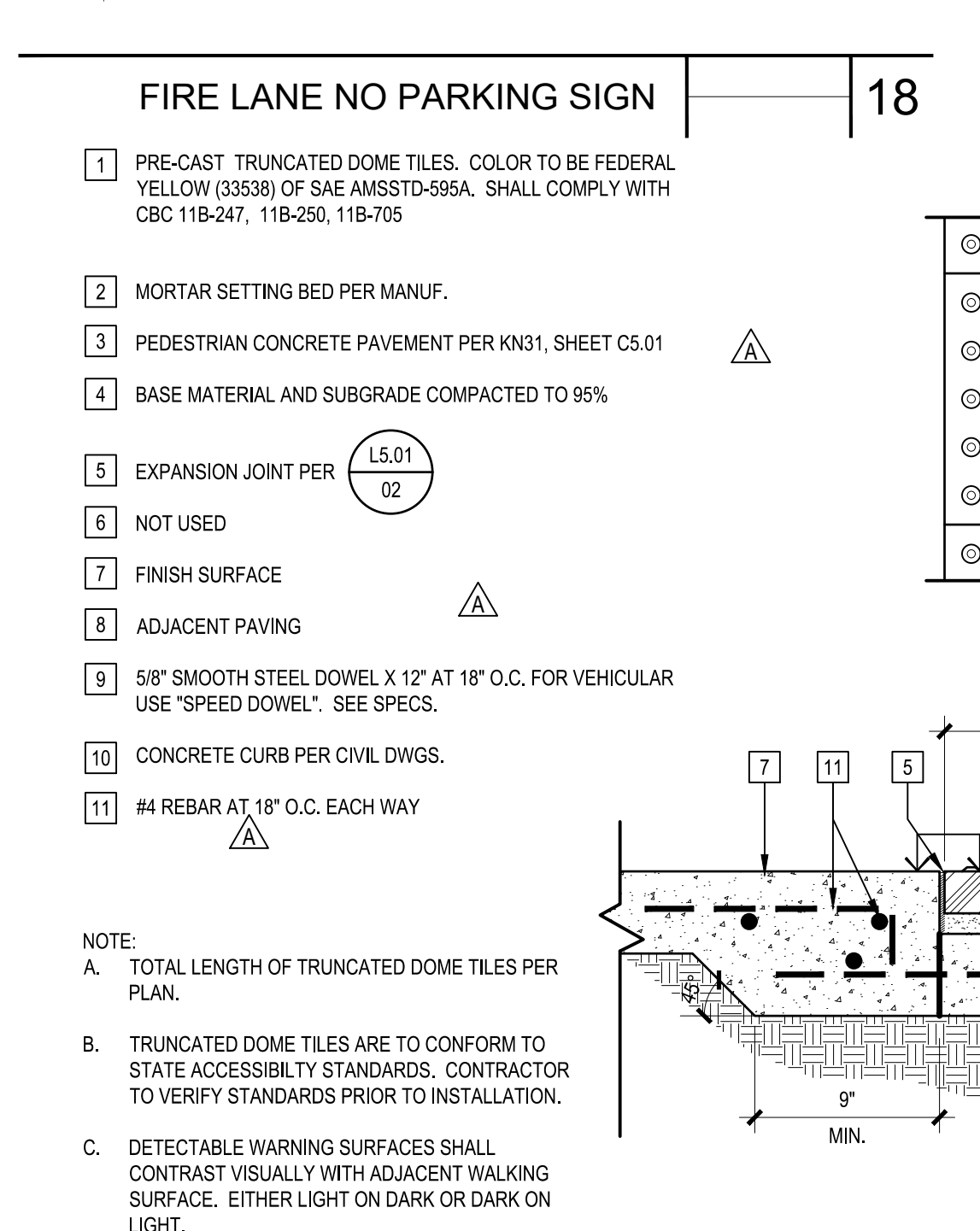
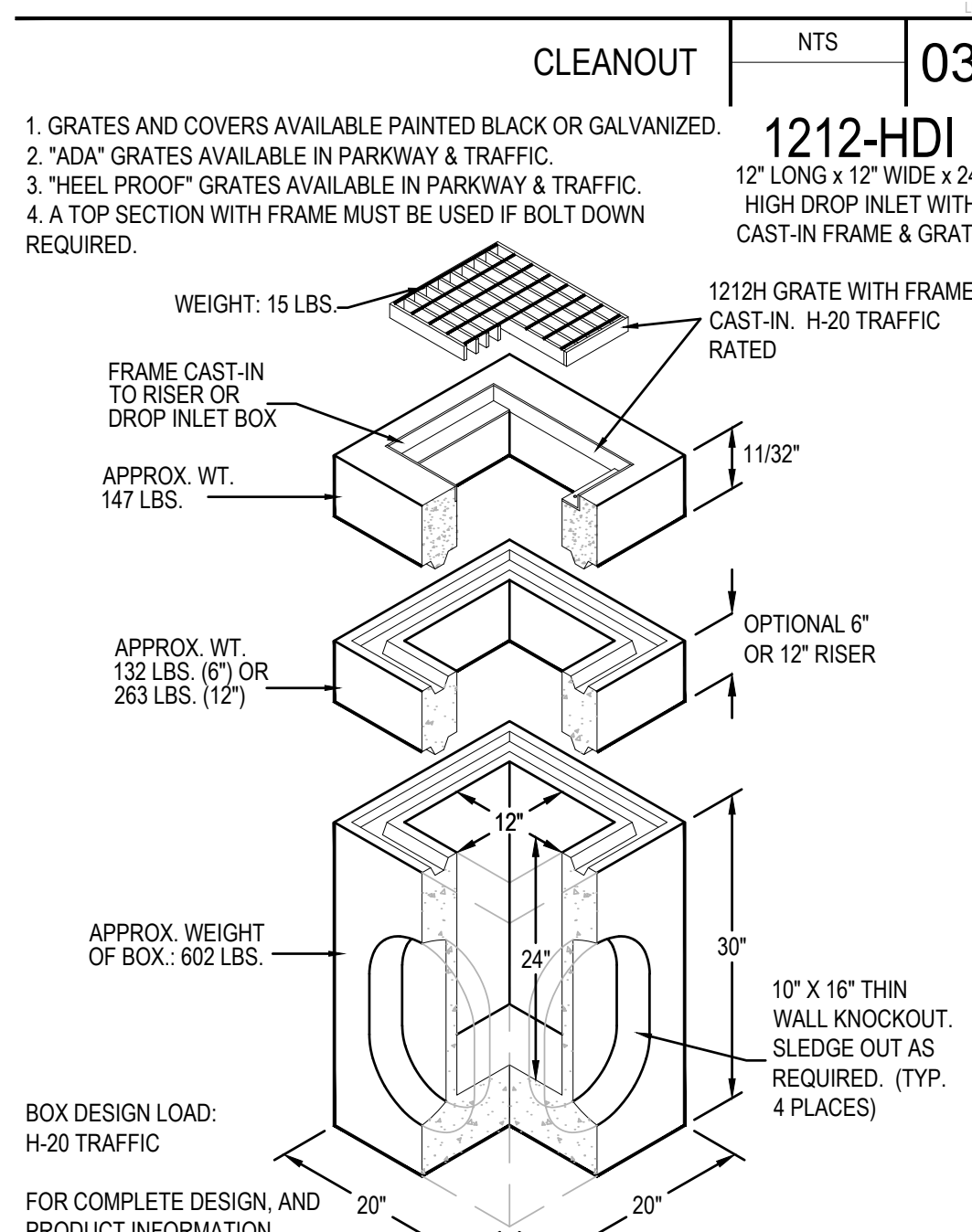
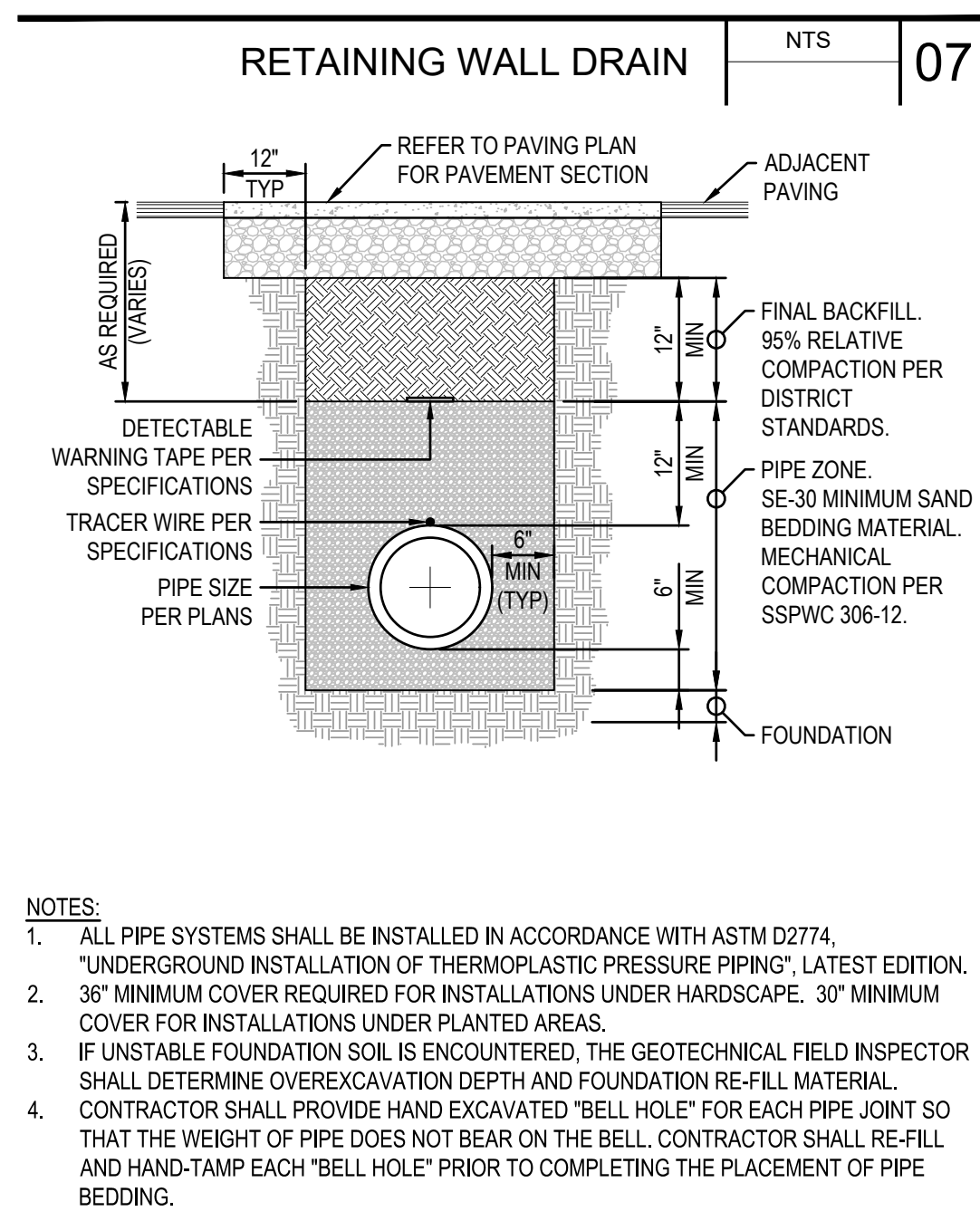
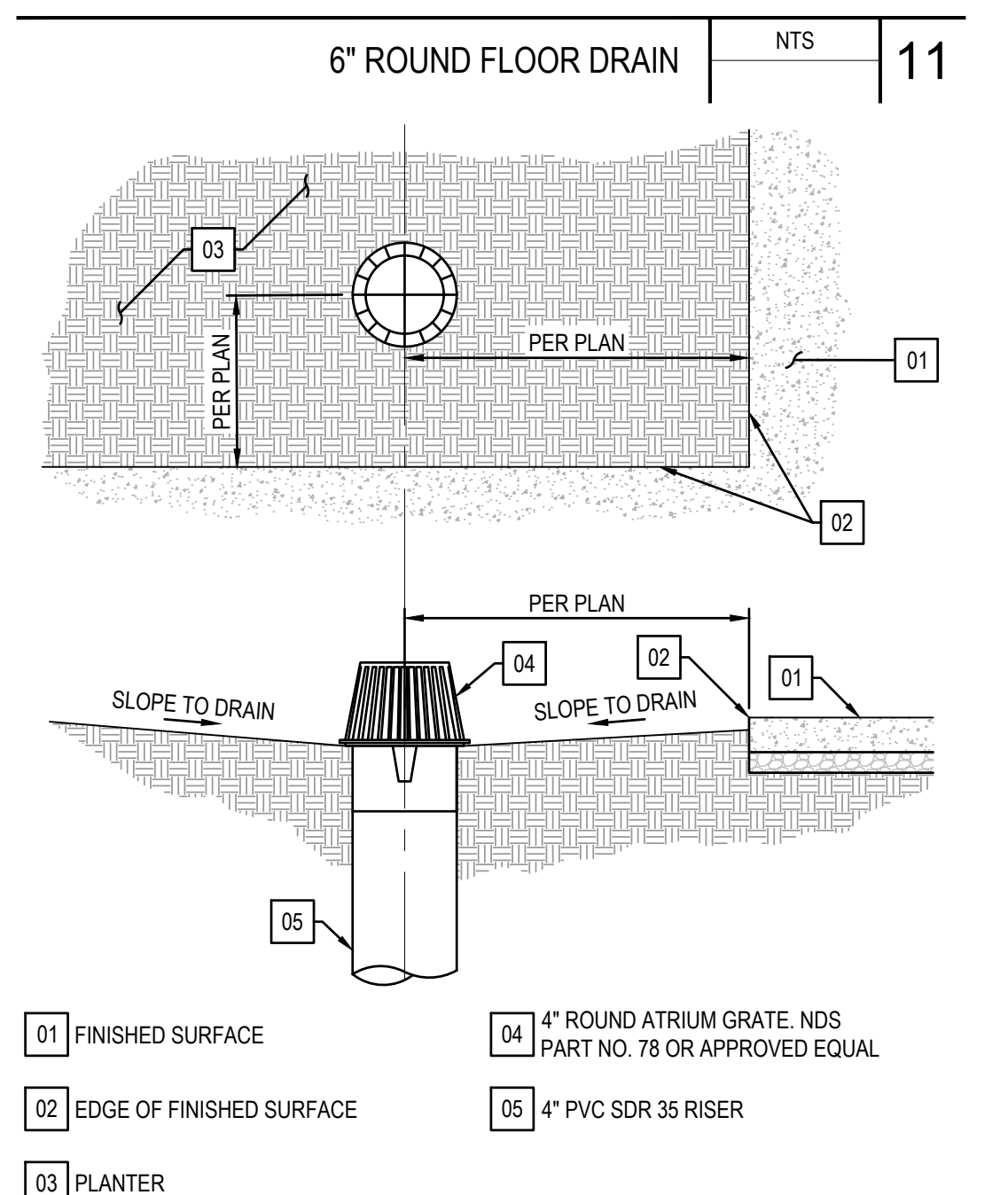
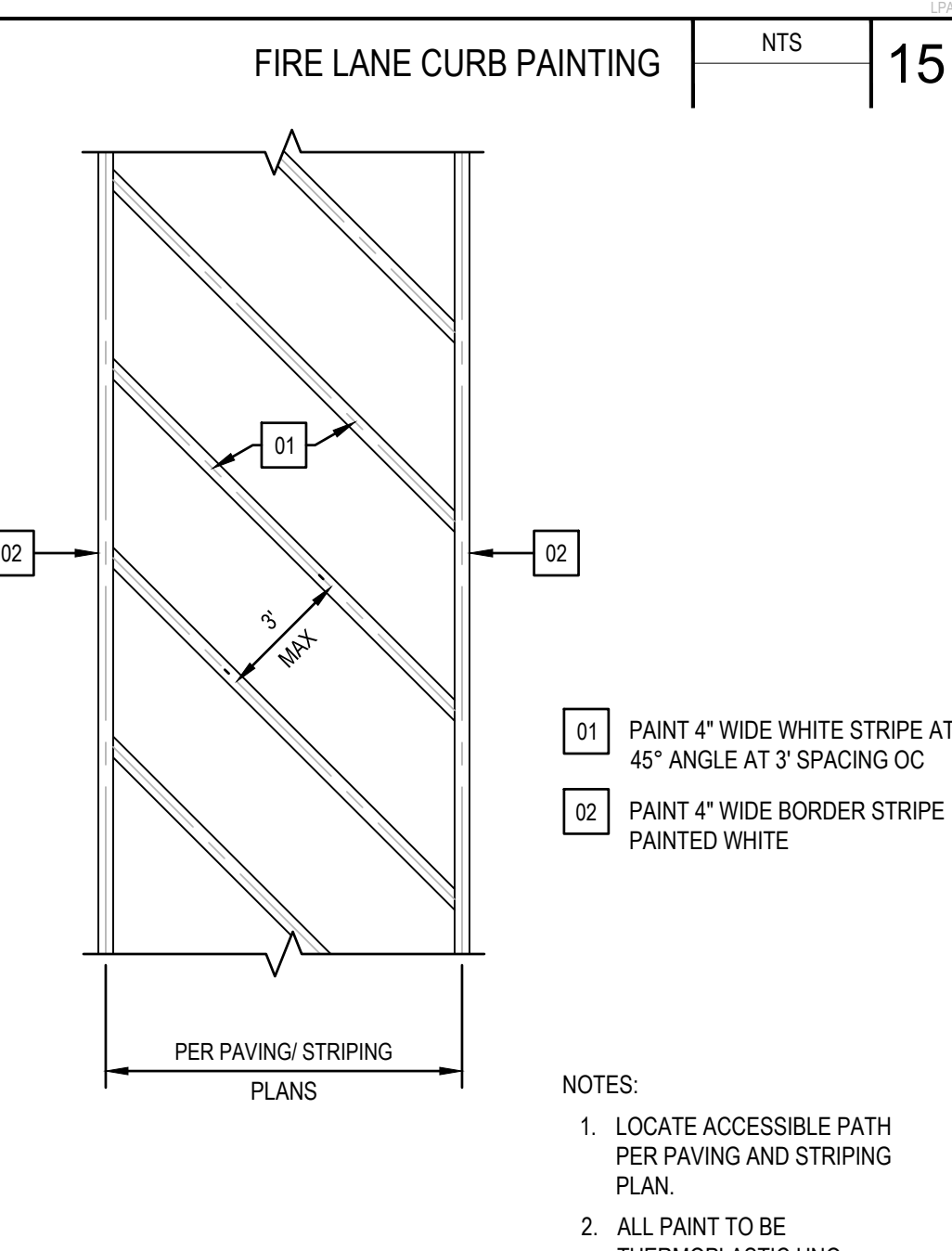
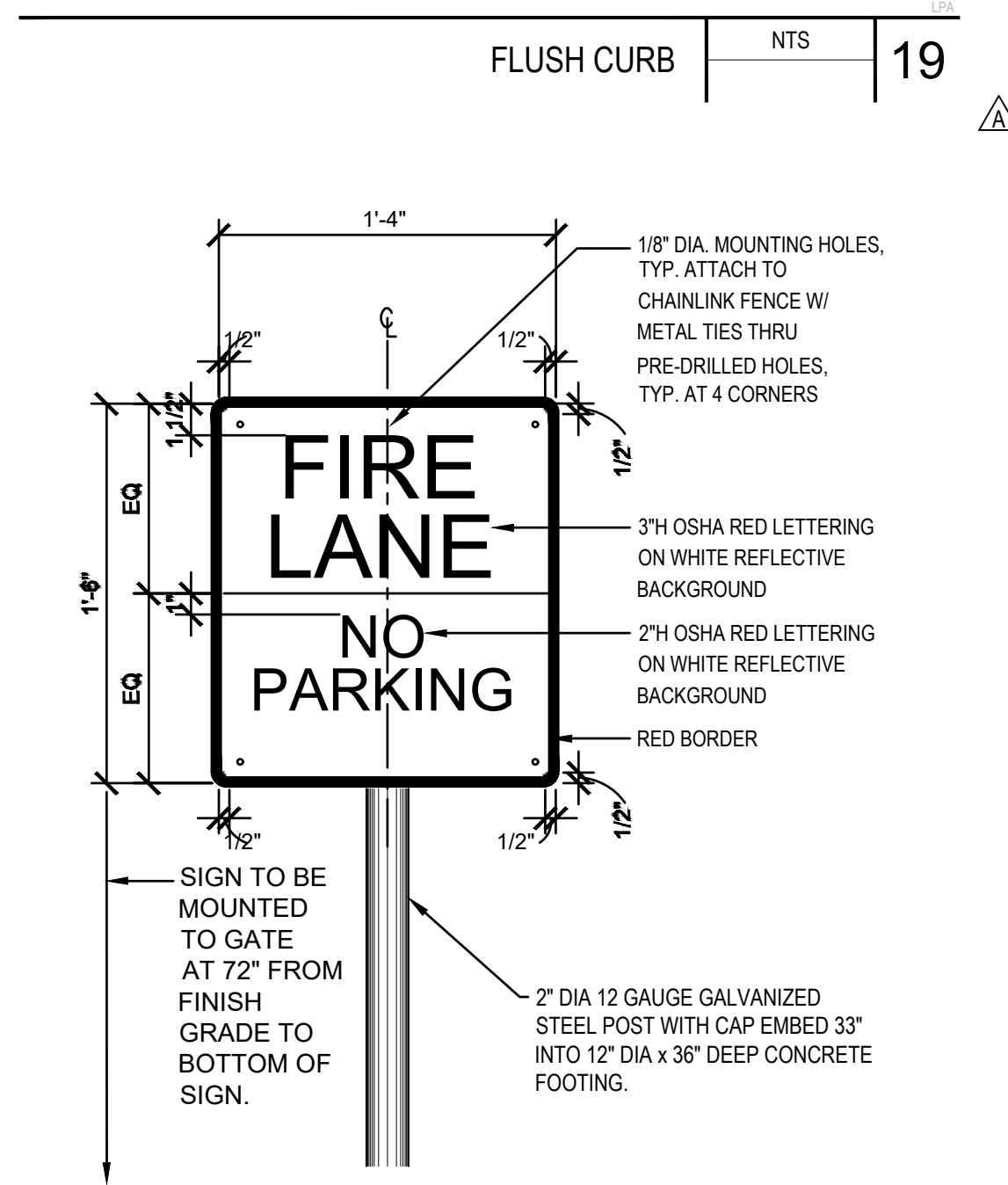
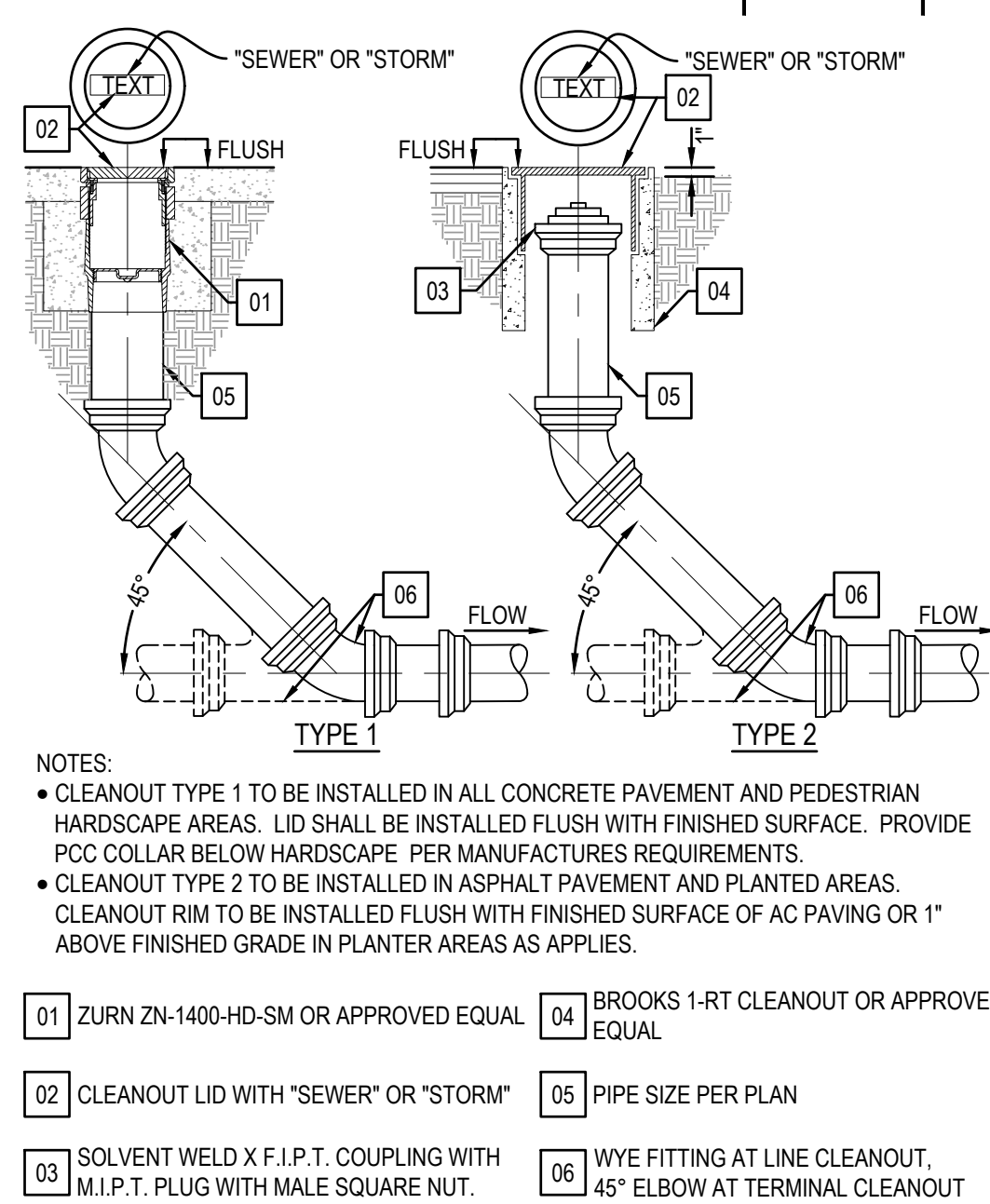
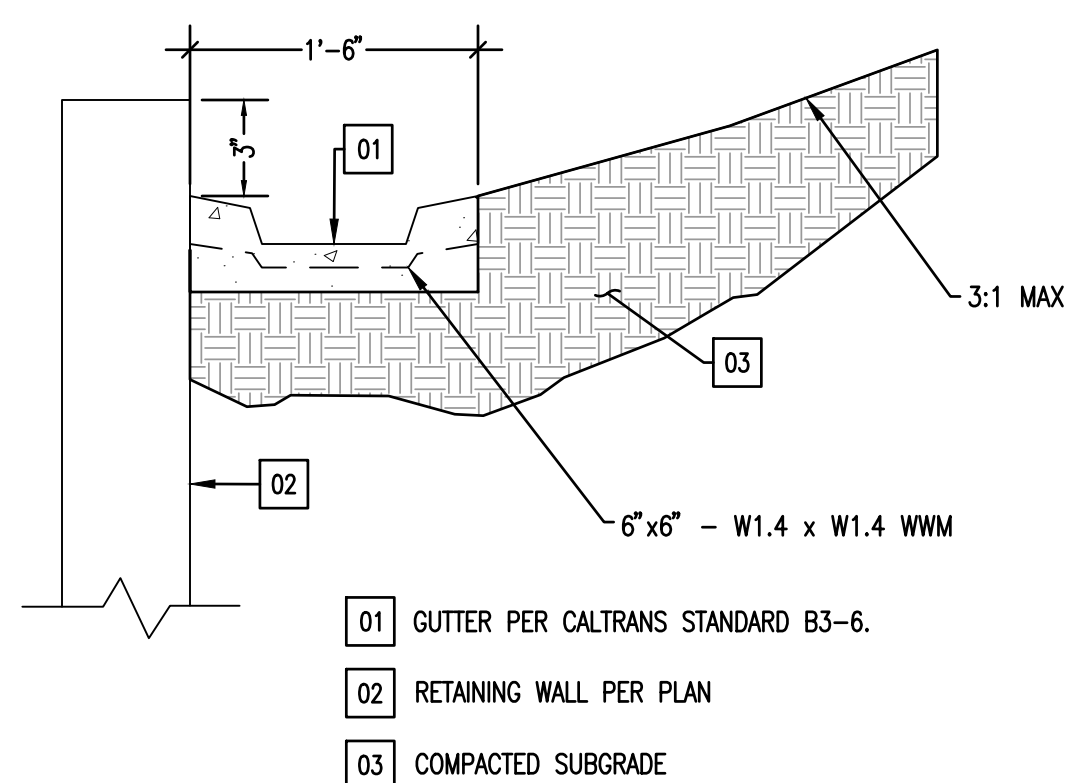
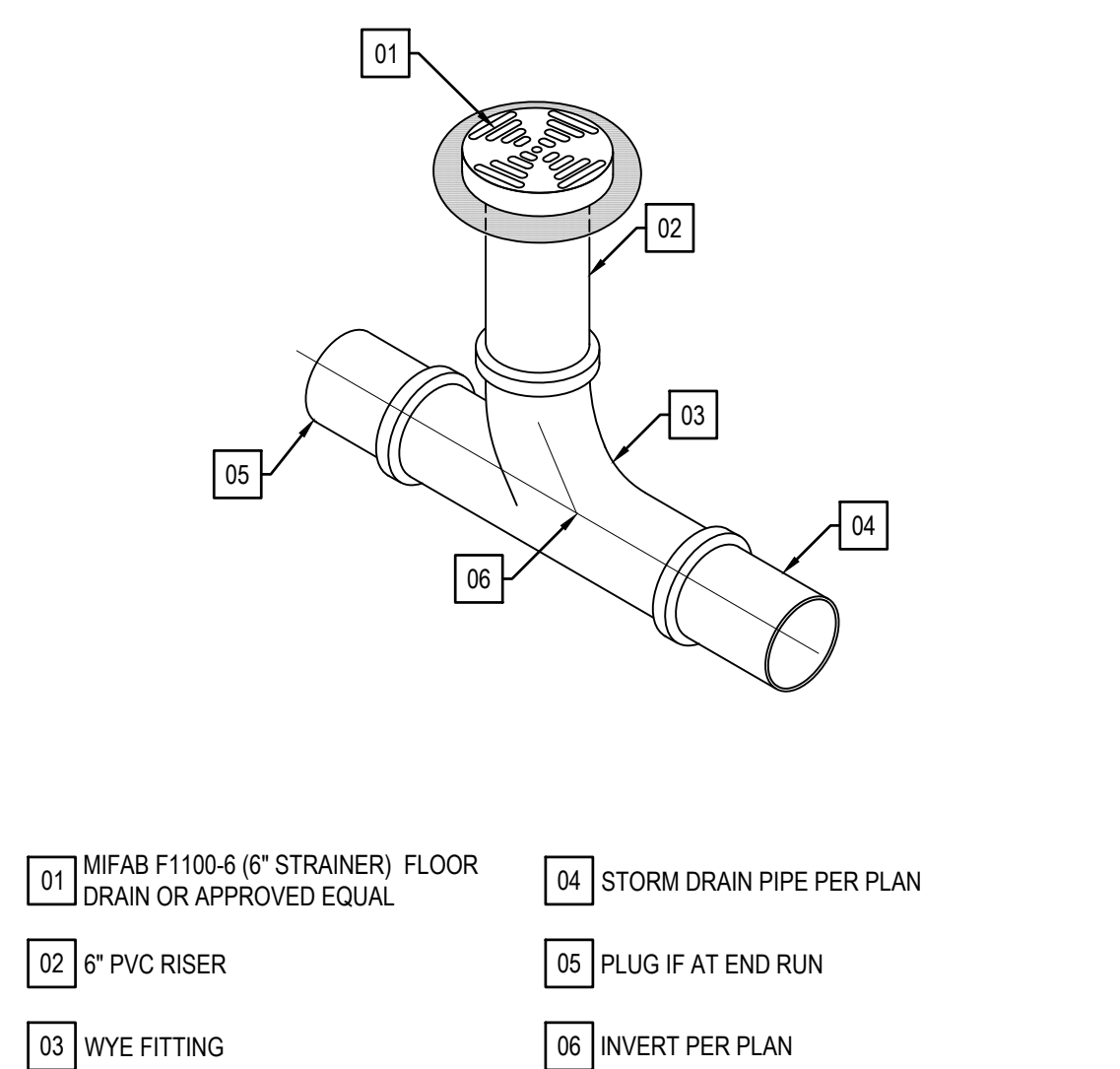
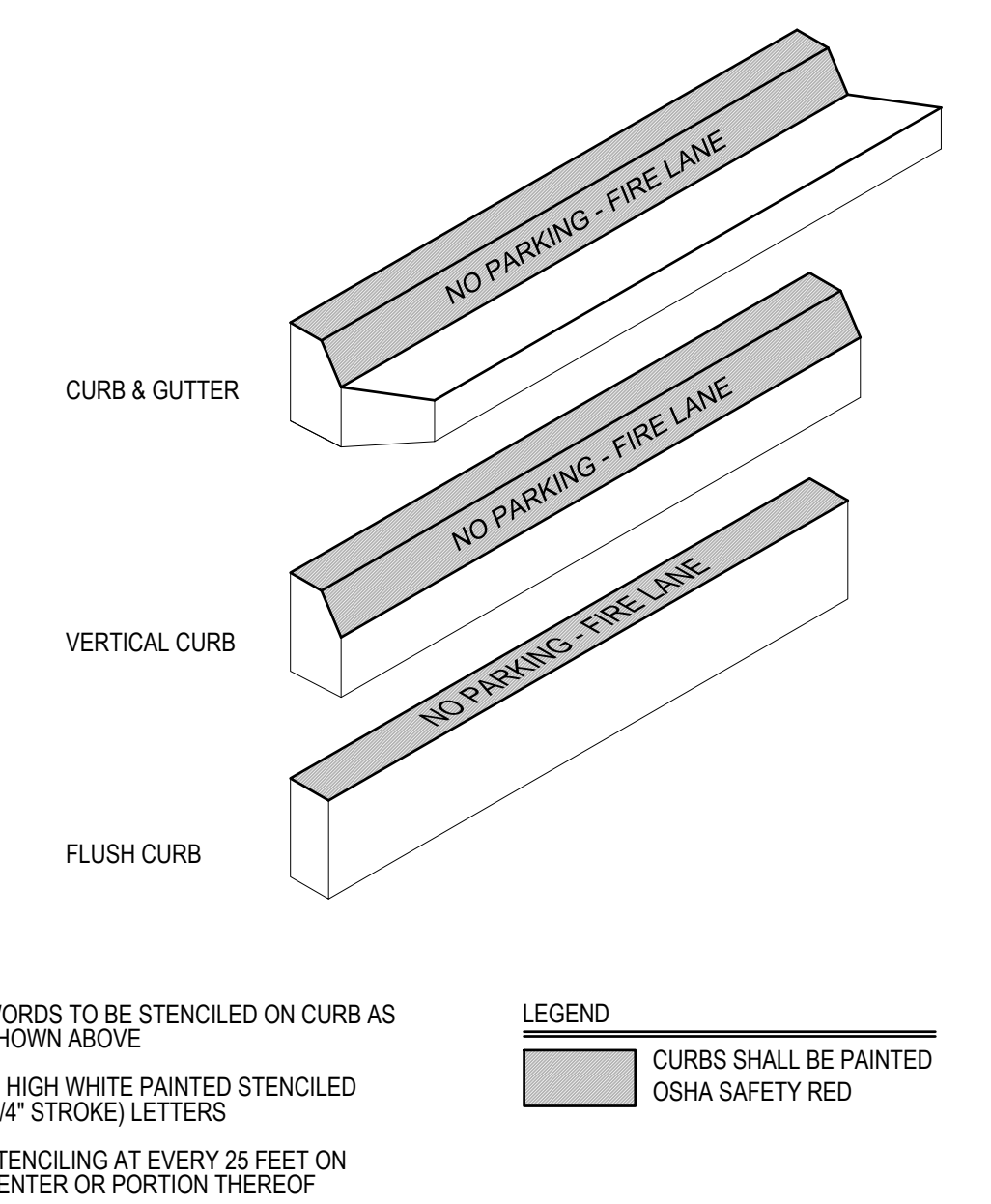
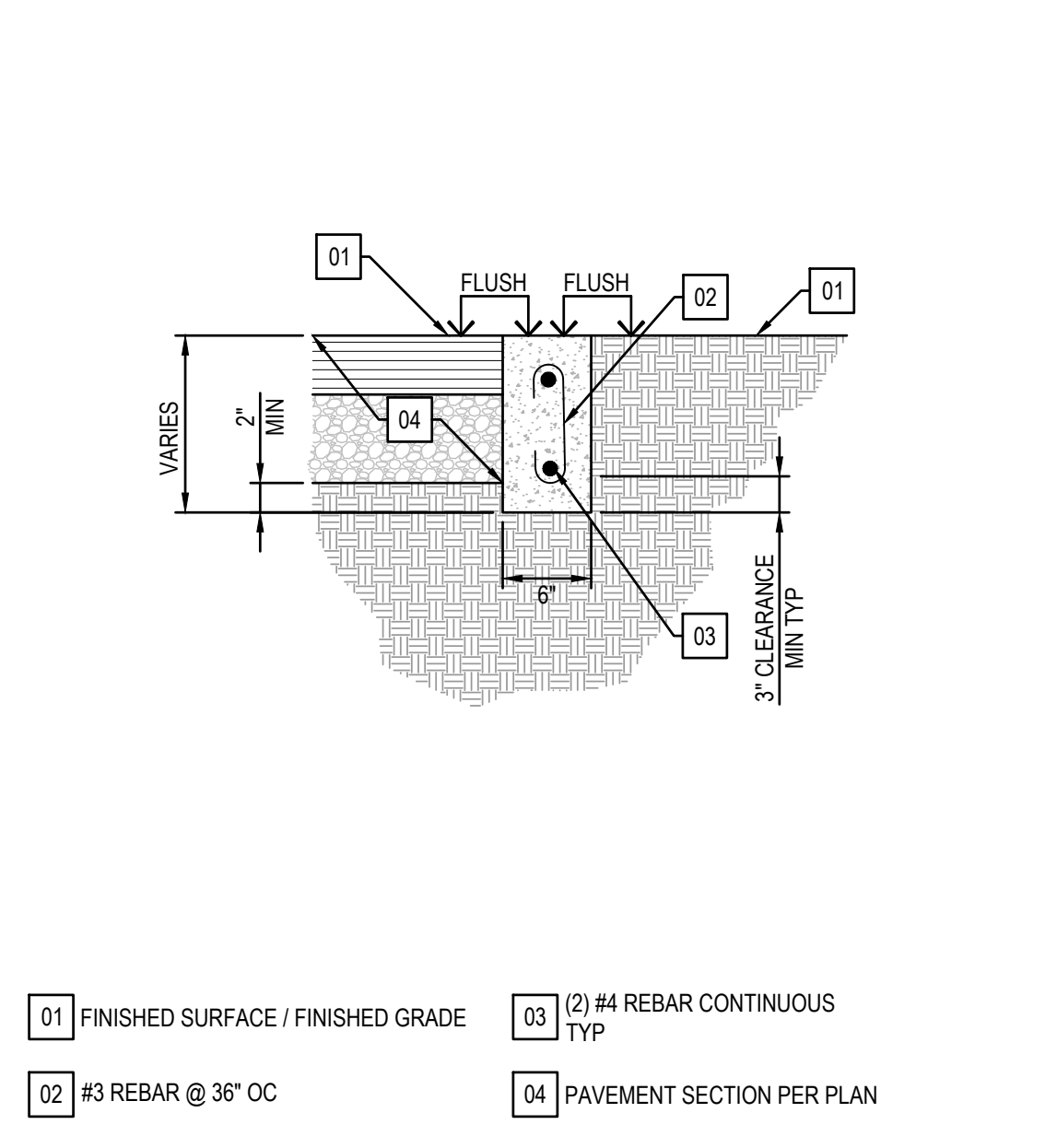
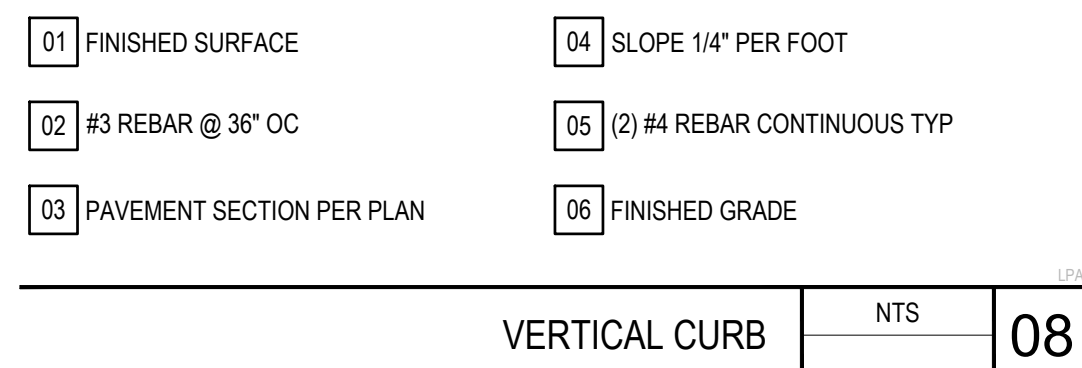
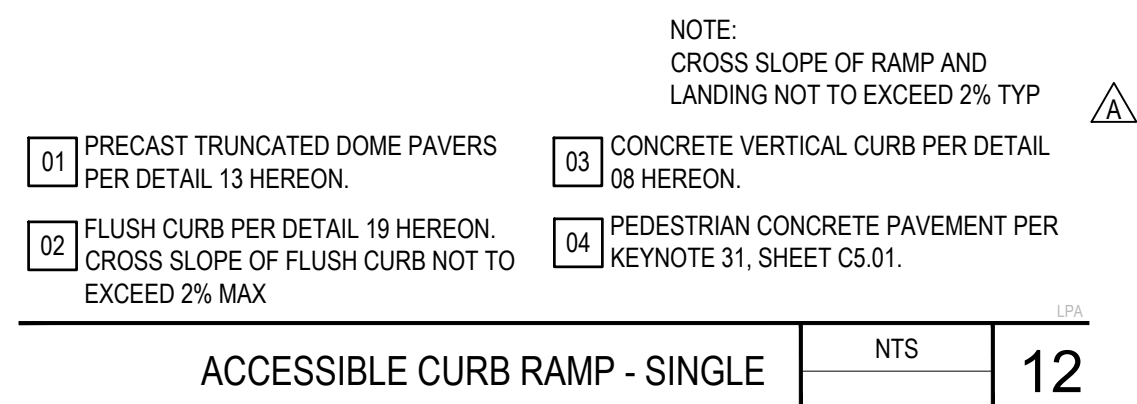
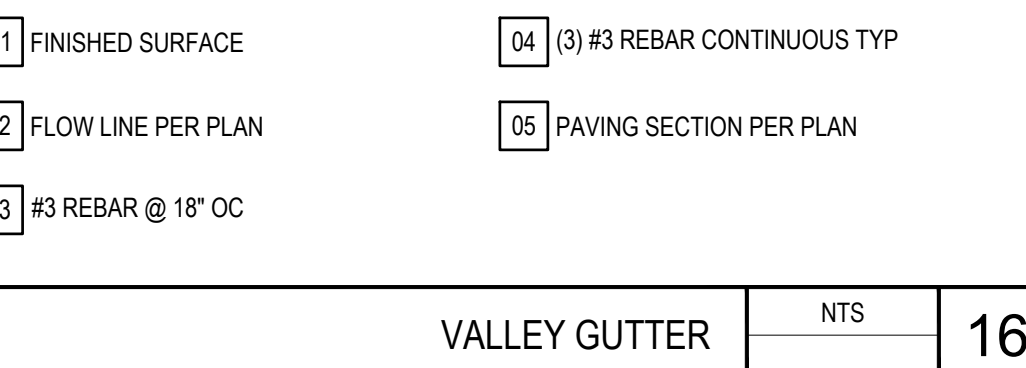
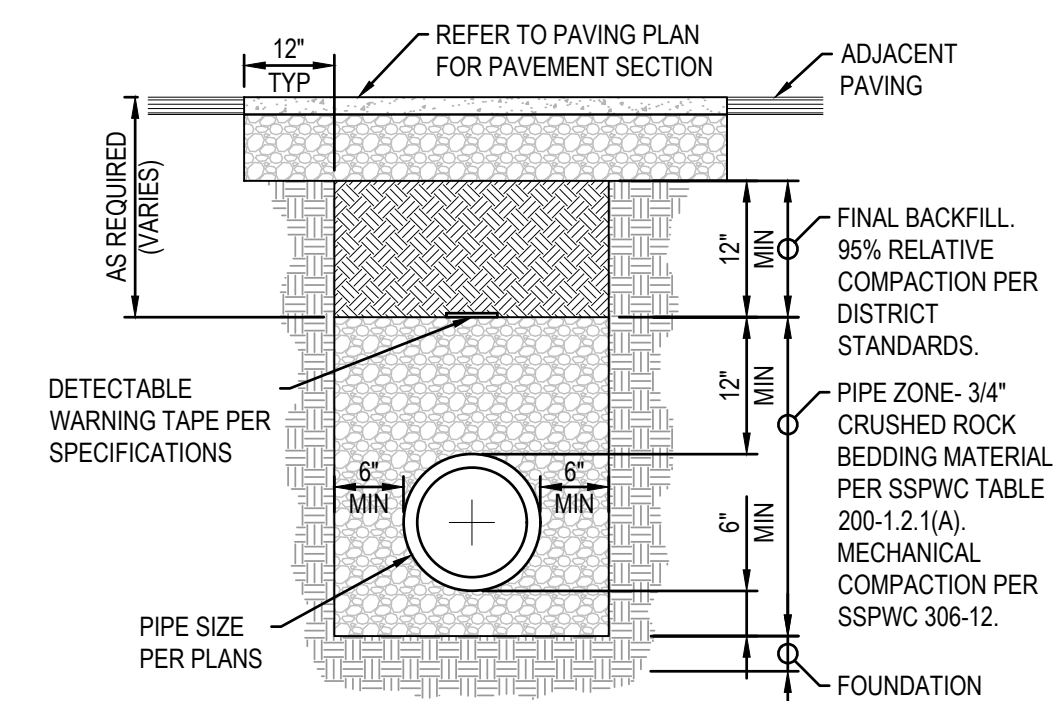
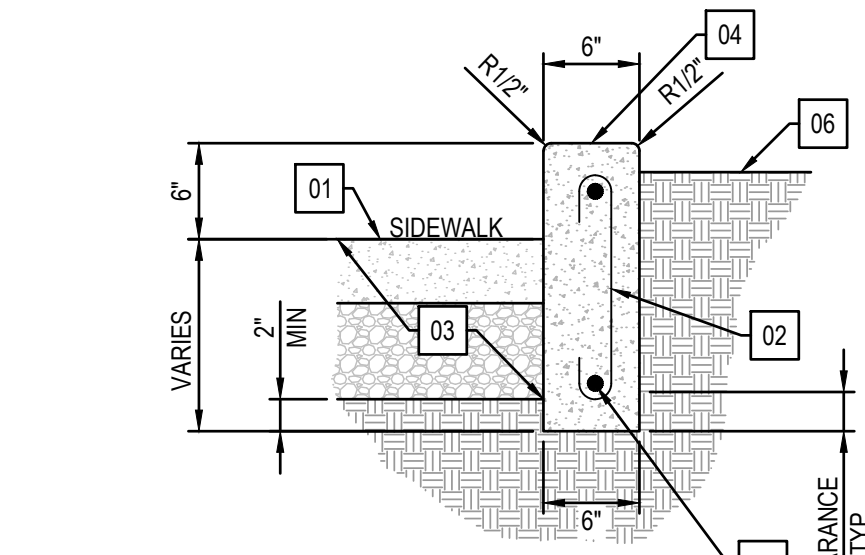
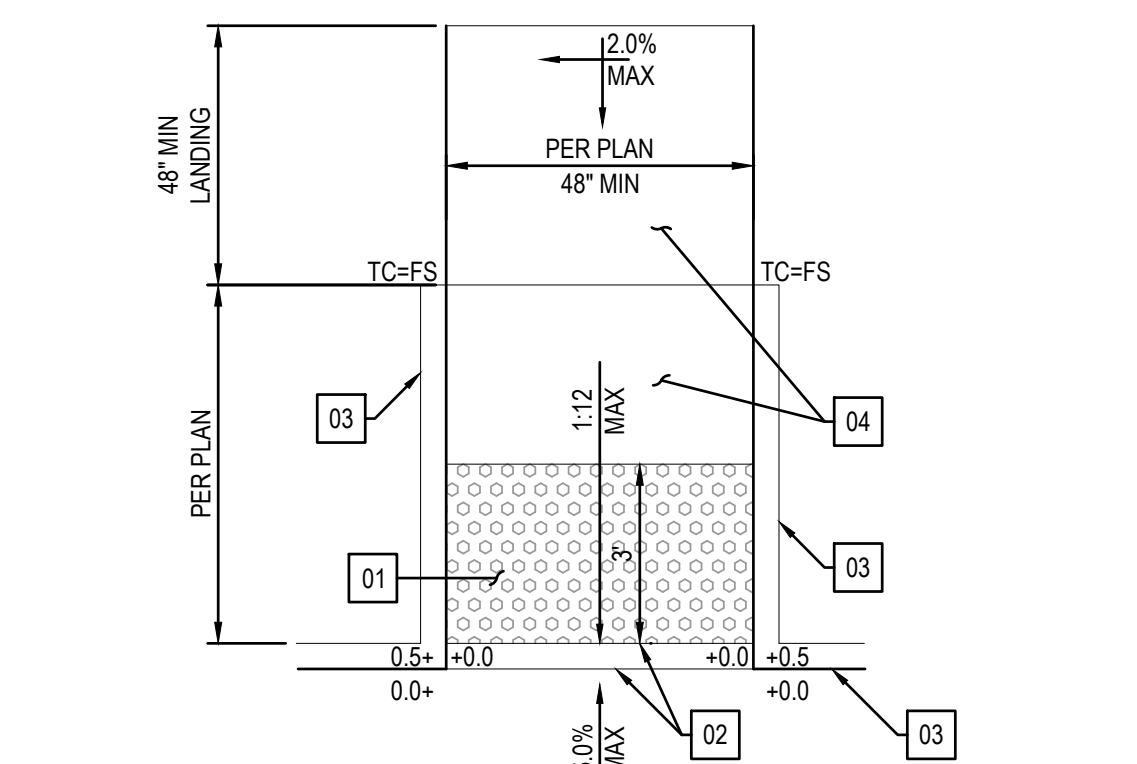
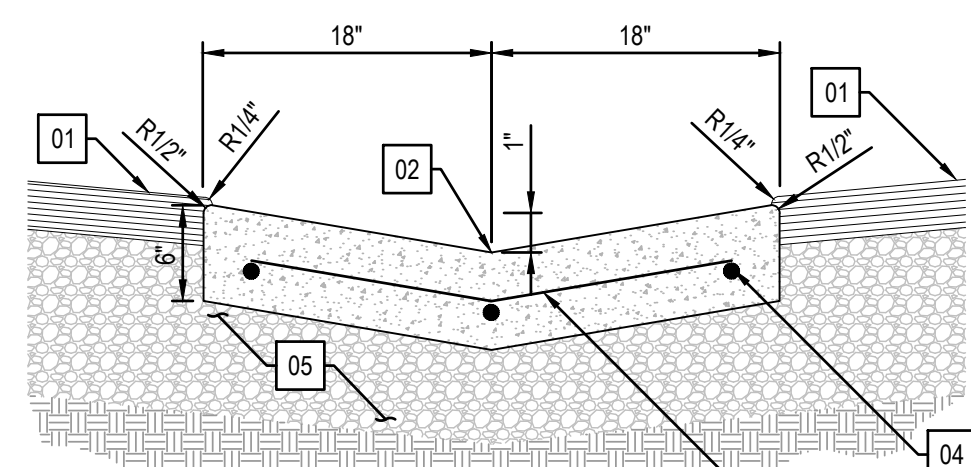
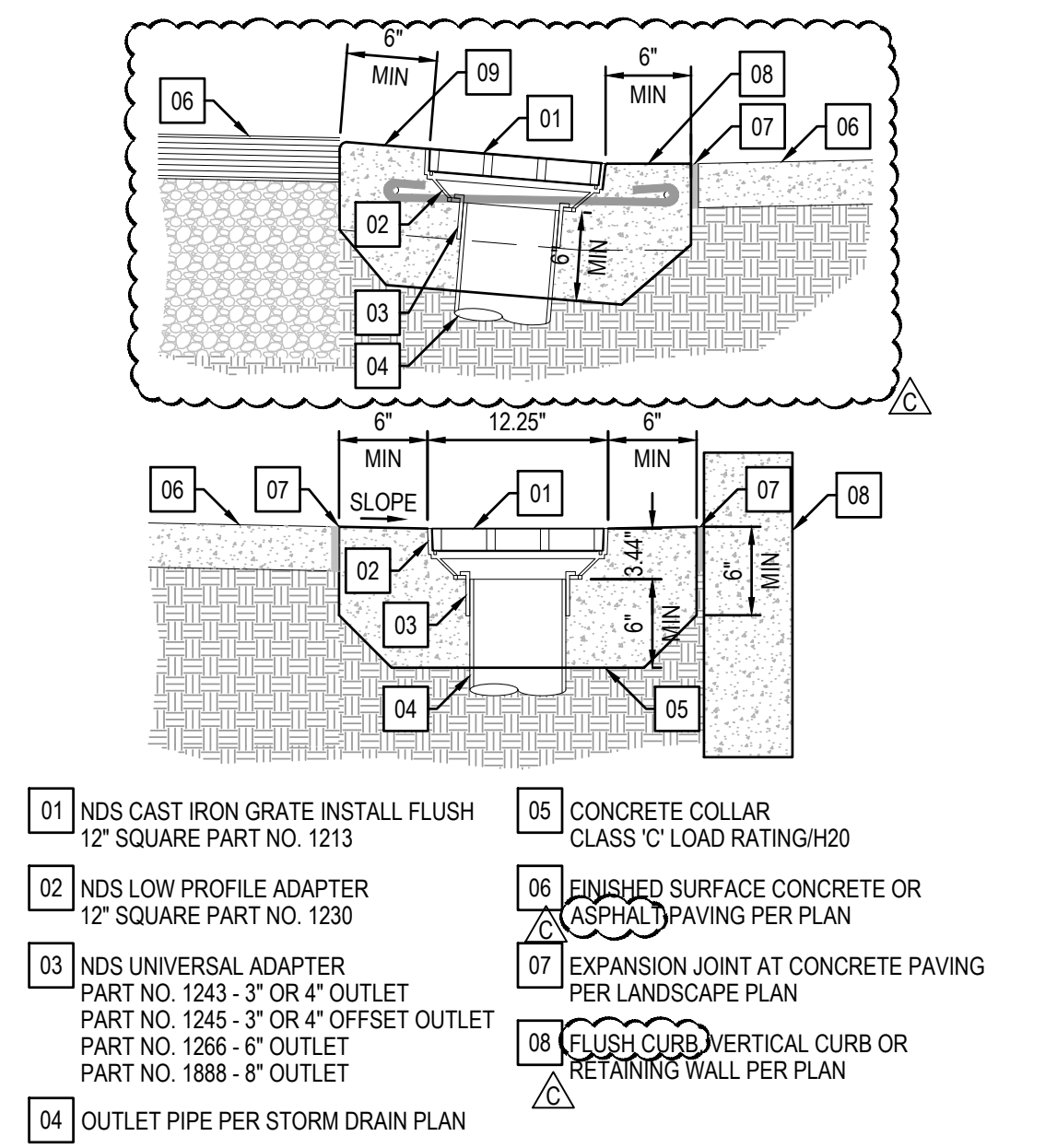
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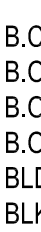


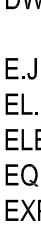
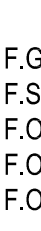
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EROSION CONTROL  
PLAN







| ABBREVIATIONS   |   |                             |  |
|---|---|-----------------------------|--|
|  | AND<br>ANGLE<br>AT<br>CENTERLINE<br>DIAMETER SEE<br>ROUND<br>POUND OR<br>NUMBER | GA.<br>GALV.<br>GND.<br>GR. | GAUGE<br>GALVANIZED<br>GROUND<br>GRADE |
|  | ADJ.<br>AGGR.<br>AL.<br>APPROX.<br>ARCH.<br>AC.<br>ACC.                         | GA.<br>GALV.<br>GND.<br>GR. | GAUGE<br>GALVANIZED<br>GROUND<br>GRADE |
|  | B.C.R.<br>B.O.W.<br>B.O.S.<br>BLDG.<br>BLK.                                     | GA.<br>GALV.<br>GND.<br>GR. | GAUGE<br>GALVANIZED<br>GROUND<br>GRADE |
|  | C.E.<br>C.I.P.<br>C.M.<br>CONC.<br>CONSTR.<br>CONT.<br>CTR.                     | GA.<br>GALV.<br>GND.<br>GR. | GAUGE<br>GALVANIZED<br>GROUND<br>GRADE |
|  | D.A.<br>DET.<br>DIA.<br>DIM.<br>DN.<br>DWGS.                                    | GA.<br>GALV.<br>GND.<br>GR. | GAUGE<br>GALVANIZED<br>GROUND<br>GRADE |
|  | E.J.<br>ELEC.<br>EQ.<br>EXP.<br>EXT.  | GA.<br>GALV.<br>GND.<br>GR. | GAUGE<br>GALVANIZED<br>GROUND<br>GRADE |
|  | F.G.<br>F.S.<br>F.O.B.<br>F.O.C.<br>F.O.W.                                      | GA.<br>GALV.<br>GND.<br>GR. | GAUGE<br>GALVANIZED<br>GROUND<br>GRADE |

## METAL FENCE AND GATE NOTES

- SUBMIT SHOP DRAWINGS TO LANDSCAPE ARCHITECT OF ALL FENCE AND GATE COMPONENTS INCLUDING PLANS, ELEVATIONS AND DETAILS AS NECESSARY FOR COMPLETE INSTALLATION.
- ALL WELDS PER DETAILS. COLD GALVANIZE ALL FIELD WELDS.
- ALL POSTS SHALL HAVE WELDED METAL CAPS.
- ALL MEMBERS TO BE 9 GUAGE WALL THICKNESS MINIMUM, UNLESS NOTED OTHERWISE
- ALL GATES AND FENCES, INCLUDING CORRUGATED METAL PANEL TO BE PAINTED, SEE MATERIALS PLAN FOR COLOR.
- FIELD VERIFY LOCATIONS OF EXISTING FENCES, POSTS, AND GATES. FOR NETTING POSTS LOCATIONS SEE PLANS AND ELEVATIONS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S PLANS, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
- SUBMIT SAMPLES OF ALL COMPONENTS AND MATERIALS TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- GATE HARDWARE FINISH AND COLOR TO MATCH GATE/FENCE.
- ANY COMPONENTS REQUIRED FOR A COMPLETE FENCE/GATE SYSTEM, BUT NOT SHOWN, SHOULD BE CONSIDERED A PART OF THESE DRAWINGS AND INCLUDED IN THE FINAL INSTALLED SYSTEM.
- CONTRACTOR TO VERIFY ALL ATTACHMENTS AND DIMENSIONS, INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ALL JOINTS TO BE WELDED TO MAKE A SOLID GATE FRAME.

## PLANTING NOTES

- REFER TO CIVIL ENGINEER'S DRAWINGS FOR UTILITY LOCATIONS, TREE SUBDRAINAGE STUBOUTS, (IF REQUIRED), AND FINAL GRADING. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S DRAWINGS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
- VERIFY LOCATIONS OF ALL PERTINENT EXISTING AND PROPOSED SITE IMPROVEMENTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
- EXACT LOCATIONS OF PLANT MATERIALS SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANTS TO EXACT LOCATION IN FIELD.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PLANT COUNTS AND SQUARE FOOTAGES. QUANTITIES SHOWN ON PLANS TAKE PRECEDENCE OVER WRITTEN QUANTITIES IN "PLANTING LEGEND."
- PROVIDE MATCHING FORMS AND SIZES FOR ALL PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS.
- PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT.
- ALIGNED AND EQUALLY SPACED, IN ALL DIRECTIONS, ALL SHRUBS TO BE AS DESIGNATED PER THESE NOTES AND DRAWINGS.
- ALL TREES IN ROWS TO BE ALIGNED, (UNLESS NOTED OTHERWISE ON PLANS) GROWTH.
- FINISH GRADES OF ALL TURF AREAS SHALL BE (1") BELOW ADJACENT CURB OR PAVEMENT. FINISH GRADES OF ALL SHRUB AREAS SHALL BE (2-1/2") BELOW ADJACENT CURB, PAVEMENT OR HEADER.
- CONTRACTOR SHALL CONDUCT AGRICULTURAL SUITABILITY AND FERTILITY SOILS TESTING PER SOIL PREPARATION SPECIFICATION. ANALYSIS SHALL INCLUDE RECOMMENDATIONS FOR SOIL PREPARATION AND BACKFILL MIX AS WELL AS RECOMMENDATIONS FOR POST MAINTENANCE FERTILIZATION. SUBMIT SOILS ANALYSES AND SAMPLES OF AMENDMENTS TO LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO SOIL PREPARATION.
- QUANTITIES LISTED ON PLANT LEGEND ARE PER SHEET. CONTRACTOR MUST VERIFY QUANTITIES GIVEN ON THE PLANS WITH ACTUAL QUANTITIES SHOWN.
- PROVIDE ROOT BARRIERS IN ADDITION TO THOSE INDICATED ON THE PLANS FOR ALL TREES WITHIN 5' OF ANY HARDSCAPE.
- PLANT ALL TREES A MIN. OF 5' FROM ANY DRAIN LINES. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL DRAIN LINES PRIOR TO COMMENCING WORK.
- TREES ARE TO BE A MINIMUM OF 5' AWAY FROM ANY HARDSCAPE SUCH AS CURBS, WALKS, ETC.
- LANDSCAPE MAINTENANCE PERIOD IS 90 DAYS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

## LAYOUT AND MATERIALS NOTES

- THE CONTRACTOR SHALL LAYOUT AND FIELD VERIFY ALL DIMENSIONS OF DRIVEWAY, PLANTERS, WALKS, SLOPES AND RELATED WORK PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE.
- VERIFY LOCATIONS OF ALL PERTINENT EXISTING AND PROPOSED SITE IMPROVEMENTS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE LANDSCAPE ARCHITECT FOR INSTRUCTION PRIOR TO COMMENCING WORK.
- WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE.
- THIS DRAWING INCLUDES THE LOCATION OF AREA DRAINS FOR REFERENCE. REFER TO RELATED CIVIL ENGINEER'S DRAWINGS FOR CONSTRUCTION DETAILS AND UTILITY CONNECTIONS.
- REFER TO ELECTRICAL ENGINEER'S DRAWINGS FOR LIGHT FIXTURE SCHEDULE AND CIRCUITRY AS NECESSARY.
- WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTERLINES.
- ALL MEASUREMENTS ARE TO FACE OF WALL, CURB OR OTHER FIXED SITE IMPROVEMENT, UNLESS OTHERWISE NOTED. DIMENSIONS TO CENTERLINES AS INDICATED.
- INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.
- ALL DRAINS/ BASINS SHOULD HAVE BLACK ATRIUM TYPE GRATES WITHIN SHRUBS/GROUND COVER AREAS AND BLACK FLAT TYPE GRATES IN TURF AREAS.

## LANDSCAPE GRADING AND DRAINAGE

- REFER TO CIVIL ENGINEER'S GRADING PLANS FOR SITE GRADING, DRAINAGE, AND UTILITY LOCATIONS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S DRAWINGS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT FOR DIRECTION AS TO HOW TO PROCEED.
- REFER TO CIVIL ENGINEER'S DRAWINGS FOR SUBDRAINAGE POINT OF IN CONNECTION TO STORM DRAIN.
- THE CONTRACTOR SHALL REQUEST OBSERVATION AS REQUIRED 48 HOURS ADVANCE OF PERFORMING WORK.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA 800-227-2600) OR DIG ALERT (800-422-4133) 48 HOURS PRIOR TO ANY EXCAVATION.
- ALL GRADING OPERATIONS SHALL CONFORM TO LOCAL GUIDELINES.
- FIELD VERIFY EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION AND ELEVATION IN THE FIELD PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- NO CHANGE IN CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED DISCREPANCY BETWEEN EXISTING GRADE AND THOSE SHOWN ON PLANS AFTER CONTRACTOR HAS ACCEPTED EXISTING GRADES AND MOVED ONTO THE SITE.
- ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH EXISTING GRADING AT PROJECT LIMIT AND EXISTING SIDEWALK. PRECISE ELEVATIONS INDICATED ON PLANS TO BE VERIFIED IN FIELD TO AS-BUILT CONDITION.
- THE DEBRIS CREATED BY LANDSCAPE GRADING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF-SITE.
- FINAL LANDSCAPE GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT IN THE FIELD PRIOR TO INSTALLATION OF PLANTING.

## GENERAL NOTES

- BASE INFORMATION INCLUDING THE LOCATION OF PROPERTY LINES, EASEMENTS, BUILDINGS, ROADS AND CURBS HAVE BEEN TAKEN FROM THE CIVIL ENGINEER'S DRAWINGS. REFER TO CIVIL ENGINEER'S DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO THE CIVIL ENGINEER'S DRAWINGS FOR PROPOSED UTILITY INFORMATION INCLUDING STORM DRAIN, SEWER, WATER, ELECTRICAL, GAS, TELEPHONE AND CABLE TV.
- REFER TO CITY AND/OR COUNTY STANDARD PLANS AND SPECIFICATIONS WHERE APPLICABLE.
- VERIFY SITE INFORMATION, INCLUDING PROPERTY LINES, EXISTING ABOVE GROUND AND BELOW GROUND UTILITIES AND STRUCTURES, AND OTHER INFORMATION AFFECTING THE SCOPE OF WORK INCLUDED ON THESE DRAWINGS. IF ACTUAL SITE CONDITIONS VARY FROM WHAT IS SHOWN ON THE LANDSCAPE ARCHITECT'S DRAWINGS, THE CONTRACTOR SHALL CONTACT THE OWNER'S AUTHORIZED REPRESENTATIVE AND THE LANDSCAPE ARCHITECT FOR DIRECTION ON HOW TO PROCEED.
- EXCAVATION IN THE VICINITY OF UTILITIES AND EXISTING MATERIALS SHALL BE UNDERTAKEN WITH CARE. THE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK. ANY DAMAGE CAUSED BY ANY PERSON, VEHICLE, EQUIPMENT, OR TOOL RELATED TO THE EXECUTION OF THE CONTRACT SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC., SHALL BE SET IN PLACE PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.
- CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT WITH SITE SUPERINTENDENT, APPROPRIATE AGENCIES AND PLANS, FOR THE LOCATIONS OF ALL UNDER-GROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
- CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
- PRIOR TO INSTALLATION OF ANY CONSTRUCTION ITEM, FORMS WITH STEEL IN PLACE AND COMPACTED SUBGRADE COMPLETE, SHALL BE OBSERVED AND REVIEWED BY THE LANDSCAPE ARCHITECT.
- ALL WALLS AND WALKS SHOULD HAVE SMOOTH, CONTINUOUS CURVES AS INDICATED ON PLANS.
- ALL PROPERTY LINES, LOT LINES, AND TOP OF SLOPE LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.
- ALL ELECTRICAL JUNCTION BOXES FOR LIGHTS SHALL BE IN PLANTING AREAS AND LOCATION REVIEWED BY THE LANDSCAPE ARCHITECT. STAKE LOCATION PRIOR TO INSTALLATION.
- SEE CIVIL ENGINEER'S DRAWINGS FOR CURBS AND A/C PAVING.
- REFER TO CIVIL ENGINEER'S DRAWINGS FOR ELEVATIONS AND LOCATION OF DRAINAGE STRUCTURES PRIOR TO INSTALLATION OF WALKS, FOOTINGS AND OTHER STRUCTURES.
- RAISE ALL VAULTS/UTILITIES BOXES TO GRADE WITHIN LIMITS OF WORK. FIELD VERIFY PRIOR TO BID.

## SHEET INDEX

L0.01 LANDSCAPE NOTES AND SCHEDULES

L1.01 MATERIALS PLAN

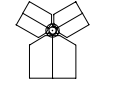
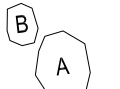
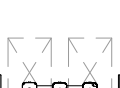

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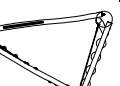


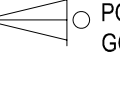

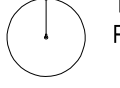
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L7.01 PLANTING PLAN  
L7.02 PLANTING DETAILS


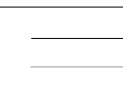
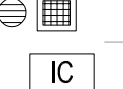

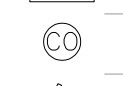

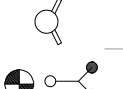
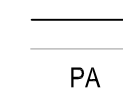
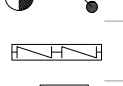
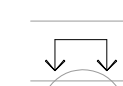


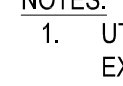
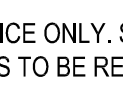
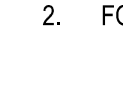

## SITE FURNISHINGS LEGEND

| SYM.  | DESC.             | MANUF.                      | MODEL #   | COLOR              | FINISH/PTRN.      | QTY.           | DTL        |
|---|-------------------|-----------------------------|---|--------------------|-------------------|----------------|------------|
|  | BIRD HOUSE        | VESTRE                      | WINGS, WIDE BIRD HOUSE<br>WINGS, W/ 2M MOUNTING POLE CASTING IN GROUND, MODEL # 5824, 5827C | RAL 1018 ZINKEBELS | POWDERCOAT FINISH | 2              | 14/ L5.03  |
|  | BOULDERS          | SOUTHWEST BOULDER AND STONE | NAVAJO BOULDERS<br>4'-4" x 3'-4" 5'-2" x 1'-8"  | STANDARD           | STANDARD          | A - 5<br>B - 8 | 11/ L5.01  |
|  | DRINKING FOUNTAIN | HAWES                       | MODEL 3612  | BLUE               | STANDARD          | 1              | 02/ L5.03  |
|  | BIKE LOCKER       | DURA BIKE LOCKER            | DL1 MODEL SINGLE BIKE LOCKER  | COLOR, MESA TAN    | STANDARD          | 2              | PER MANUF. |

## PLAY EQUIPMENT LEGEND

| SYM.  | DESC.                                  | MANUF.         | MODEL #   | COLOR                          | FINISH/PTRN.          | QTY.               | DTL                |
|---|--|----------------|---|--------------------------------|-----------------------|--------------------|--------------------|
|    | TRIO CLIMBER                           | NATURE SERIES  | EP-NS-037   | EASTERN WHITE CEDAR GREEN HOPE | N/A                   | 1                  | INSTALL PER MANUF. |
|    | WOBBLE PODS                            | NATURE SERIES  | EP-NS-008<br>5-12 YEARS;<br>9' H, 14' H, 18' H  | EASTERN WHITE CEDAR            | N/A                   | 1 TOTAL (SET OF 5) | INSTALL PER MANUF. |
|    | WOBBLE LOG                             | NATURE SERIES  | EP-NS-001   | EASTERN WHITE CEDAR            | N/A                   | 1                  | INSTALL PER MANUF. |
|   | BASKETBALL STRAIGHT POLE WITH GOAL NET | LA STEEL CRAFT | POST AND SUPPORTS: LA-1256PC BLACK BACKBOARD: LA-24T (42X60) RIM: LA-41 BREAKAWAY DOUBLE RIM NET: LA-34 NYLON POST PAD (2X): LA-PP-656 BLACK                  | STANDARD                       | POWDER COATING FINISH | 3                  | 12/ L5.04          |
|  | VOLLEYBALL SLEEVES & NET               | PW ATHLETIC    | POSTS 22'18-216P - BLACK GROUND SLEEVE: 8305-24-1 BRASS CAP: 8305-1B POST ACCESSORIES: 8321-09NT PULLY: 8321-05C NET: 8361-20 POST PADS (2X): LA-PP-656 BLACK | STANDARD                       | GALVANIZED POST       | 1 PAIR             | 20/ L5.04          |
|  | TETHERBALL POLE                        | LA STEEL CRAFT | TBPC8   | STANDARD                       | GALVANIZED POST       | 6                  | 24/ L5.05          |

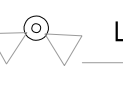
## SITE SYMBOLS LEGEND

| SYM.  | DESC.   | DET/ SHEET | SYM.  | DESC.                           | DET/ SHEET |
|---|---|------------|---|---------------------------------|------------|
|  | PROPOSED FIRE HYDRANT                             | L5.01      |  | SAWCUT JOINT                    | L5.01      |
|  | DRAIN PER CIVIL                                   | 02/ L5.01  |  | EXPANSION JOINT                 | 02/ L5.01  |
|  | IRRIGATION CONTROLLER                             | ---        |  | LIMIT OF WORK                   | ---        |
|  | CLEAN OUT   | ---        |  | MATCHLINE                       | ---        |
|  | POST INDICATOR VALVE                              | ---        |  | PROPERTY LINE/ RIGHT OF WAY     | ---        |
|  | POST INDICATOR VALVE / FIRE DEPARTMENT CONNECTION | PA         |  | PLANTING AREA                   | ---        |
|  | (E) DOMESTIC BACKFLOW PREVENTOR                   | ---        |  | ALIGN                           | ---        |
|  | (E) DOMESTIC WATER METER                          | ---        |  | EXISTING TREE/ PROTECT IN PLACE | ---        |







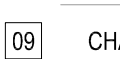
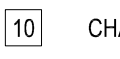





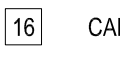




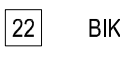
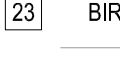


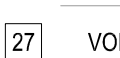

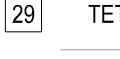



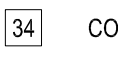
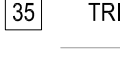


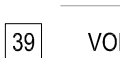
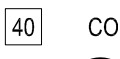












NOTES:

- UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.
- FOR SITE LIGHTING LEGEND, SEE L0.01

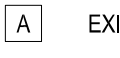












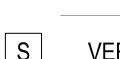








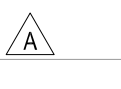
## SITE LIGHTING LEGEND

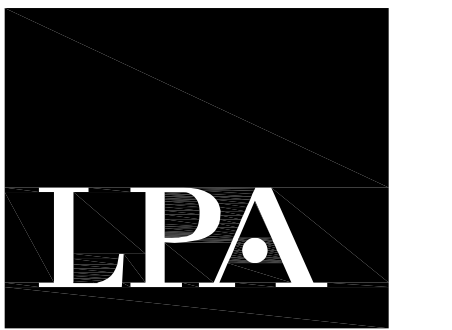
| KEY NOTE  | DESCRIPTION | DET/ SHEET | COMMENTS  |
|---|-------------|------------|---|
|  | LIGHT POLE  | 19/ L5.02  | SEE ELEC. PLANS FOR MODEL NO. AND COLOR TO BE SELECTED FROM RAL COLOR CHART |

## KEYNOTES

| NOTE  | DESCRIPTION                             | DET/ SHT  | COLOR / FINISH   |
|---|---|-----------|--|
|    | CONCRETE PAVING                         | 01/ L5.01 | NATURAL GRAY/ BROOM FINISH   |
|    | CONCRETE BAND AT A.C./ CONC. PAVING     | 19/ L5.01 | NATURAL GRAY/ BROOM FINISH   |
|    | STABILIZED DECOMPOSED GRANITE PAVING    | 16/ L5.01 | CALIFORNIA GOLD/ AVAL. THRU SB + S   |
|    | METAL EDGING                            | 20/ L5.01 | PERMASTRIP FLOY AVAL. THRU PERMALOC  |
|    | HAND SET COBBLE                         | 15/ L5.01 | 8" x 8" SIZE, COLOR: MEXICAN SUNBURST PEBBLE AVAL. THRU SB+S   |
|    | RUBBER PLAY SURFACING                   | 09/ L5.01 | 75% STD. GREEN, 25% BRT GREEN AVAL. THRU SPECTRAPOUR   |
|    | C.I.P. TERRACED WALL                    | 01/ L5.03 | NATURAL GRAY SMOOTH TROWEL, W/ ANTI-GRAFFITI COATING   |
|    | WOOD RAISED PLANTER                     | 03/ L5.03 | 24" HIGH, CEDAR, IMPORT TOPSOIL WITH DRAINAGE ROCKS  |
|    | CHAIN LINK FENCE                        | 01/ L5.02 | GALVANIZED   |
|    | CHAIN LINK VEHICULAR GATE               | 14/ L5.02 | GALVANIZED   |
|    | CHAIN LINK PEDESTRIAN SINGLE GATE       | 02/ L5.02 | GALVANIZED                                  |
|    | METAL PICKET SINGLE GATE AND COM BOX    | 03/ L5.02 | PER DETAIL   |
|    | KNOX BOX POST                           | 18/ L5.03 | PER DETAIL   |
|    | DRINKING FOUNTAIN WITH GUARD RAILS      | 02/ L5.03 | REFER TO SITE FURNISHINGS LEGEND, SHEET L0.01  |
|    | CONCRETE PAD AT POLE LIGHT              | 15/ L5.02 | PER DETAIL   |
|    | CANTILEVER FENCE PANEL                  | 20/ L5.02 | PER DETAIL   |
|    | 12' WD CONC. BAND AT FENCE              | 24/ L5.02 | PER DETAIL   |
|    | CONC. RETAINING WALL                    | 13/ L5.03 | NATURAL GRAY/ SMOOTH TROWEL  |
|    | RAMP HANDRAIL                           | 01/ L5.04 | PER DETAIL   |
|    | RAIN CHAIN                              | 14/ L5.01 | PER DETAIL   |
|    | BOULDER                                 | 11/ L5.01 | REFER TO SITE FURNISHINGS LEGEND IN L0.01  |
|    | BIKE LOCKER                             | -         | REFER TO SITE FURNISHINGS LEGEND IN L0.01  |
|    | BIRD HOUSE                              | 14/ L5.03 | REFER TO SITE FURNISHINGS LEGEND IN L0.01  |
|    | BASKETBALL POLE                         | 12/ L5.04 | REFER TO SITE FURNISHINGS LEGEND IN L0.01  |
|    | BASKETBALL HALF COURT CIRCLE            | 01/ L5.05 | MULTIPLE PAINTED COLORS AVAL. THRU STREETBOND  |
|    | VOLLEYBALL POST                         | 17/ L5.04 | REFER TO SITE FURNISHINGS LEGEND IN L0.01  |
|    | VOLLEYBALL COURT                        | 09/ L5.05 | MULTIPLE PAINTED COLORS AVAL. THRU STREETBOND  |
|   | FOUR SQUARE COURT                       | 11/ L5.05 | MULTIPLE PAINTED COLORS AVAL. THRU STREETBOND  |
|  | TETHERBALL COURT - TYPE 1               | 12/ L5.05 | MULTIPLE PAINTED COLORS AVAL. THRU STREETBOND  |
|  | TETHERBALL COURT - TYPE 2               | 17/ L5.05 | MULTIPLE PAINTED COLORS AVAL. THRU STREETBOND  |
|  | HOPSCOTCH - TYPE 1                      | 18/ L5.05 | MULTIPLE PAINTED COLORS AVAL. THRU STREETBOND  |
|  | HOPSCOTCH - TYPE 2                      | 22/ L5.05 | MULTIPLE PAINTED COLORS AVAL. THRU STREETBOND  |
|  | EAGLE BALL COURT                        | 23/ L5.05 | MULTIPLE PAINTED COLORS AVAL. THRU STREETBOND  |
|  | CONC. BAND AT RUBBERIZED PLAY SURFACING | 13/ L5.01 | PER DETAIL   |
|  | TRIO CLIMBER                            | -         | REFER TO PLAY EQUIPMENT LEGEND ON L0.01  |
|  | WOBBLE PODS                             | -         | REFER TO PLAY EQUIPMENT LEGEND ON L0.01  |
|  | WOBBLE LOG                              | -         | REFER TO PLAY EQUIPMENT LEGEND ON L0.01  |
|  | BASKETBALL STRAIGHT POLE W/ GOAL NET    | -         | REFER TO PLAY EQUIPMENT LEGEND ON L0.01  |
|  | VOLLEYBALL SLEEVES, POSTS, AND NET      | -         | REFER TO PLAY EQUIPMENT LEGEND ON L0.01  |
|  | CONC. RETAINING CURB                    | 15/ L5.04 | NATURAL GRAY/ SMOOTH TROWEL  |
|  | BIKE RACK                               | 23/ L5.02 | GALVANIZED                                |
|  | TUBE STEEL FENCE                        | 19/ L5.03 | PER DETAIL   |
|  | CMU BLOCK RETAINING WALL                | 16/ L5.03 | PRECISION BLOCK/ COLOR TO MATCH EXISTING  |

## REFERENCE KEYNOTES

| NOTE  | DESCRIPTION  | DET/ SHT  | COMMENTS         |
|---|--|---|------------------|
|  | EXISTING ASPHALT   | -   | PROTECT IN PLACE |
|  | EXISTING CONCRETE PAVING   | -   | PROTECT IN PLACE |
|  | EXISTING CURB AND GUTTER   | -   | PROTECT IN PLACE |
|  | EXISTING STAR  | -   | PROTECT IN PLACE |
|  | EXISTING WALL  | -   | PROTECT IN PLACE |
|  | EXISTING FENCE   | -   | PROTECT IN PLACE |
|  | EXISTING GATE  | -   | PROTECT IN PLACE |
|  | EXISTING TREE  | -   | PROTECT IN PLACE |
|  | EXISTING PLAY STRIPING   | -   | PROTECT IN PLACE |
|  | EXISTING PARKING   | -   | PROTECT IN PLACE |
|  | BUILDING CANOPY  | PER ARCH  | -                |
|  | ELECTRICAL BOX   | PER ELECTRICAL  | -                |
|  | ASPHALT PAVING   | PER CIVIL   | -                |
|  | RAMP   | PER CIVIL   | -                |
|  | MECHANICAL UTILITY   | PER MECHANICAL  | -                |
|  | NOT USED  | -   | -                |
|  | VERTICAL CURB  | PER CIVIL   | -                |
|  | TRUNCATED DOME   | PER CIVIL   | -                |
|  | PARKING STRIPING   | PER CIVIL   | -                |
|  | CONCRETE CURB  | PER CIVIL   | -                |
|  | FIRE LANE NO PARKING SIGN  | PER CIVIL  | -                |



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| NOTE | DESCRIPTION                             | DET/<br>SHT  | COLOR / FINISH   |
|------|---|--------------|--|
| 01   | CONCRETE PAVING                         | 01/<br>L5.01 | NATURAL GRAY/<br>BROOM FINISH                                  |
| 02   | CONCRETE BAND AT A.C./ CONC. PAVING     | 19/<br>L5.01 | NATURAL GRAY/<br>BROOM FINISH                                  |
| 03   | STABILIZED DECOMPOSED GRANITE PAVING    | 16/<br>L5.01 | CALIFORNIA GOLD/<br>AVAIL. THRU SB + S                         |
| 04   | METAL EDGING                            | 20/<br>L5.01 | PERMASTRIP FLO/<br>AVAIL THRU PERMALOC                         |
| 05   | HAND SET COBBLE                         | 19/<br>L5.01 | 8"-8" SIZE, COLOR: MEXICAN<br>SUNBURST PEBBLE AVAIL. THRU SB+S |
| 06   | RUBBER PLAY SURFACING                   | 09/<br>L5.01 | 75% STD. GREEN, 25% BRT GREEN<br>AVAIL. THRU SPECTRAPOUR       |
| 07   | C.I.P. TERRACED WALL                    | 01/<br>L5.03 | NATURAL GRAY/ SMOOTH<br>TROWEL W/ ANTI-GRAFFITI COATING        |
| 08   | WOOD RAISED PLANTER                     | 03/<br>L5.03 | 24" HIGH, CEDAR, IMPORT TOPSOIL<br>WITH DRAINAGE ROCKS         |
| 09   | CHAIN LINK FENCE                        | 01/<br>L5.02 | GALVANIZED   |
| 10   | CHAIN LINK VEHICULAR GATE               | 14/<br>L5.02 | GALVANIZED   |
| 11   | CHAIN LINK PEDESTRIAN SINGLE GATE       | 02/<br>L5.02 | GALVANIZED <sup>A</sup>  |
| 12   | METAL PICKET SINGLE GATE AND COM BOX    | 03/<br>L5.02 | PER DETAIL   |
| 13   | KNOX BOX POST                           | 18/<br>L5.03 | PER DETAIL   |
| 14   | DRINKING FOUNTAIN WITH GUARD RAILS      | 02/<br>L5.03 | REFER TO SITE FURNISHINGS<br>LEGEND, SHEET L0.01               |
| 15   | CONCRETE PAD AT POLE LIGHT              | 15/<br>L5.02 | PER DETAIL   |
| 16   | CANTILEVER FENCE PANEL                  | 20/<br>L5.02 | PER DETAIL   |
| 17   | 12" WD CONC. BAND AT FENCE              | 24/<br>L5.02 | PER DETAIL   |
| 18   | CONC. RETAINING WALL                    | 13/<br>L5.03 | NATURAL GRAY/<br>SMOOTH TROWEL                                 |
| 19   | RAMP HANDRAIL                           | 01/<br>L5.04 | PER DETAIL   |
| 20   | RAIN CHAIN                              | 14/<br>L5.01 | PER DETAIL   |
| 21   | BOULDER                                 | 11/<br>L5.01 | REFER TO SITE FURNISHINGS<br>LEGEND IN L0.01                   |
| 22   | BIKE LOCKER                             | -            | REFER TO SITE FURNISHINGS<br>LEGEND IN L0.01                   |
| 23   | BIRD HOUSE                              | 14/<br>L5.03 | REFER TO SITE FURNISHINGS<br>LEGEND IN L0.01                   |
| 24   | BASKETBALL POLE                         | 12/<br>L5.04 | REFER TO SITE FURNISHINGS<br>LEGEND IN L0.01                   |
| 25   | BASKETBALL HALF COURT CIRCLE            | 01/<br>L5.05 | MULTIPLE PAINTED COLORS<br>AVAIL. THRU STREETBOND              |
| 26   | VOLLEYBALL POST                         | 17/<br>L5.04 | REFER TO SITE FURNISHINGS<br>LEGEND IN L0.01                   |
| 27   | VOLLEYBALL COURT                        | 09/<br>L5.05 | MULTIPLE PAINTED COLORS<br>AVAIL. THRU STREETBOND              |
| 28   | FOUR SQUARE COURT                       | 11/<br>L5.05 | MULTIPLE PAINTED COLORS<br>AVAIL. THRU STREETBOND              |
| 29   | TETHERBALL COURT - TYPE 1               | 12/<br>L5.05 | MULTIPLE PAINTED COLORS<br>AVAIL. THRU STREETBOND              |
| 30   | TETHERBALL COURT - TYPE 2               | 17/<br>L5.05 | MULTIPLE PAINTED COLORS<br>AVAIL. THRU STREETBOND              |
| 31   | HOPSCOTCH - TYPE 1                      | 16/<br>L5.05 | MULTIPLE PAINTED COLORS<br>AVAIL. THRU STREETBOND              |
| 32   | HOPSCOTCH - TYPE 2                      | 22/<br>L5.05 | MULTIPLE PAINTED COLORS<br>AVAIL. THRU STREETBOND              |
| 33   | EAGLE BALL COURT                        | 23/<br>L5.05 | MULTIPLE PAINTED COLORS<br>AVAIL. THRU STREETBOND              |
| 34   | CONC. BAND AT RUBBERIZED PLAY SURFACING | 13/<br>L5.01 | PER DETAIL   |
| 35   | TRIO CLIMBER                            | -            | REFER TO PLAY EQUIPMENT<br>LEGEND ON L0.01                     |
| 36   | WOBBLE PODS                             | -            | REFER TO PLAY EQUIPMENT<br>LEGEND ON L0.01                     |
| 37   | WOBBLE LOG                              | -            | REFER TO PLAY EQUIPMENT<br>LEGEND ON L0.01                     |
| 38   | BASKETBALL STRAIGHT POLE W/ GOAL NET    | -            | REFER TO PLAY EQUIPMENT<br>LEGEND ON L0.01                     |
| 39   | VOLLEYBALL SLEEVES, POSTS, AND NET      | -            | REFER TO PLAY EQUIPMENT<br>LEGEND ON L0.01                     |
| 40   | CONC. RETAINING CURB                    | 15/<br>L5.04 | NATURAL GRAY/<br>SMOOTH TROWEL                                 |
| 41   | BIKE RACK                               | 23/<br>L5.02 | GALVANIZED <sup>B</sup>  |
| 42   | TUBESTEEL FENCE                         | 19/<br>L5.03 | PER DETAIL   |
| 43   | CMU BLOCK RETAINING WALL                | 16/<br>L5.03 | PRECISION BLOCK/<br>COLOR TO MATCH EXISTING <sup>C</sup>       |

## REFERENCE KEYNOTES

| NOTE | DESCRIPTION               | DET/<br>SHT       | COMMENTS         |
|------|---------------------------|-------------------|------------------|
| A    | EXISTING ASPHALT          |                   | PROTECT IN PLACE |
| B    | EXISTING CONCRETE PAVING  |                   | PROTECT IN PLACE |
| C    | EXISTING CURB AND GUTTER  |                   | PROTECT IN PLACE |
| D    | EXISTING STAIR            |                   | PROTECT IN PLACE |
| E    | EXISTING WALL             |                   | PROTECT IN PLACE |
| F    | EXISTING FENCE            |                   | PROTECT IN PLACE |
| G    | EXISTING GATE             |                   | PROTECT IN PLACE |
| H    | EXISTING TREE             |                   | PROTECT IN PLACE |
| J    | EXISTING PLAY STRIPING    |                   | PROTECT IN PLACE |
| K    | EXISTING PARKING          |                   | PROTECT IN PLACE |
| L    | BUILDING CANOPY           | PER<br>ARCH       |                  |
| M    | ELECTRICAL BOX            | PER<br>ELECTRICAL |                  |
| N    | ASPHALT PAVING            | PER<br>CIVIL      |                  |
| P    | RAMP                      | PER<br>CIVIL      |                  |
| Q    | MECHANICAL UTILITY        | PER<br>MECHANICAL |                  |
| R    | NOT USED                  | <sup>B</sup>      |                  |
| S    | VERTICAL CURB             | PER<br>CIVIL      |                  |
| T    | TRUNCATED DOME            | PER<br>CIVIL      |                  |
| U    | PARKING STRIPING          | PER<br>CIVIL      |                  |
| V    | CONCRETE CURB             | PER<br>CIVIL      |                  |
| W    | FIRE LANE NO PARKING SIGN | PER<br>CIVIL      | <sup>A</sup>     |

ARCHITECTURE ENGINEERING INTERIORS  
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue, Suite 100  
Irvine, California 92617

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NORTH VERDEMONT ES CAPS ADDITION

3555 W. MEYERS ROAD

SAN BERNARDINO, CA 92407

Developed for  
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

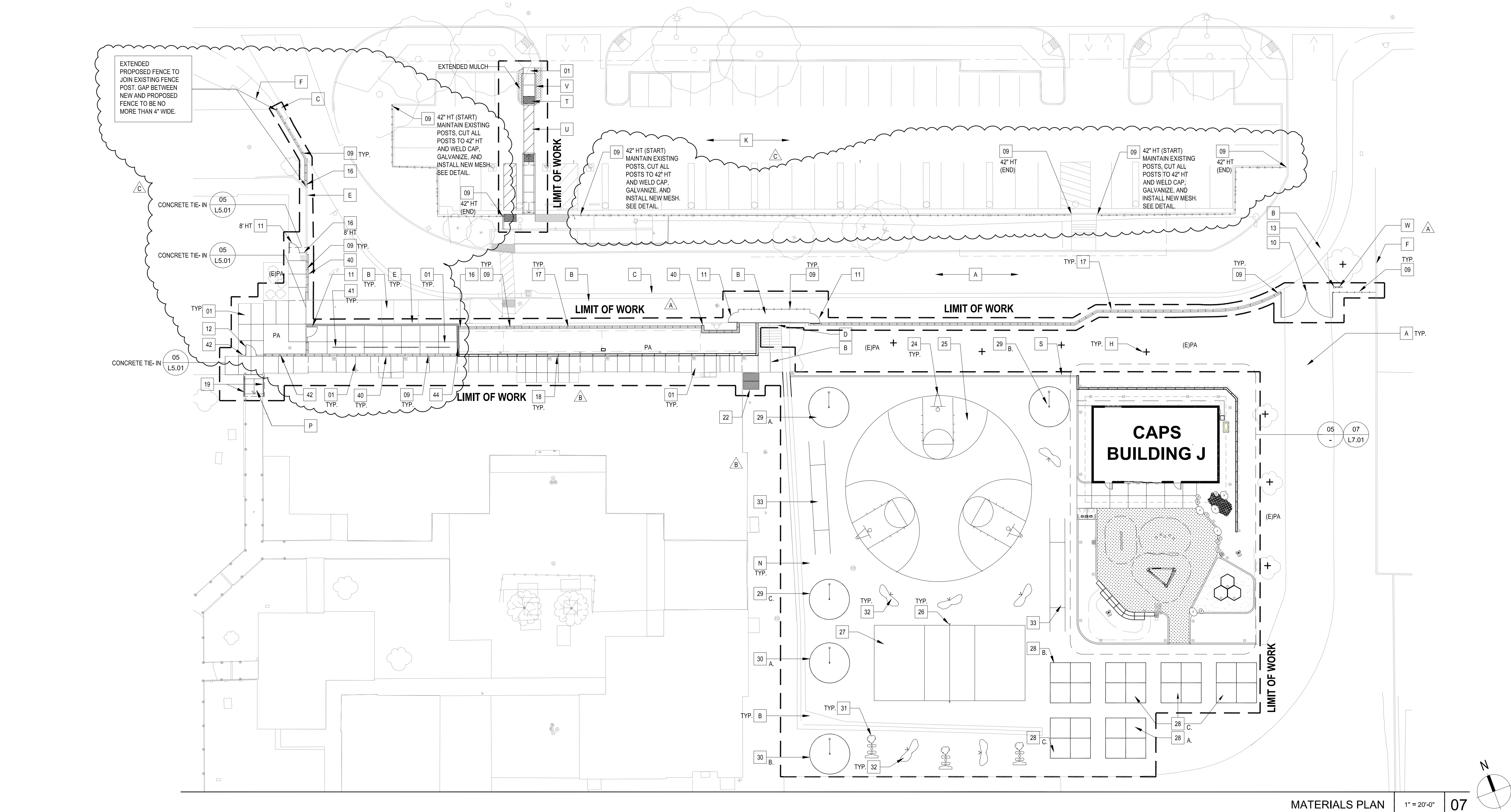
| Revision | Date       | By       |
|----------|------------|----------|
| 1        | 07/13/2025 | ADRIAN A |
| 2        | 08/03/2025 | ADRIAN B |
| 3        | 09/22/2025 | ADRIAN C |

| Submital                   | Date       | By |
|----------------------------|------------|----|
| 100% SCHEMATIC DESIGN      | 09/12/2023 |    |
| 50% CONSTRUCTION DOCUMENTS | 03/28/2023 |    |
| DSA SUBMITTAL              | 04/19/2023 |    |
| DSA APPROVAL               | 08/07/2023 |    |

|                |            |
|----------------|------------|
| Job Number     | 30899      |
| Date Published | 09/22/2025 |
| Checked By     | AG         |
| Scale          | AS NOTED   |

## MATERIALS PLAN

L1.01



MATERIALS PLAN

1" = 20'-0"

07

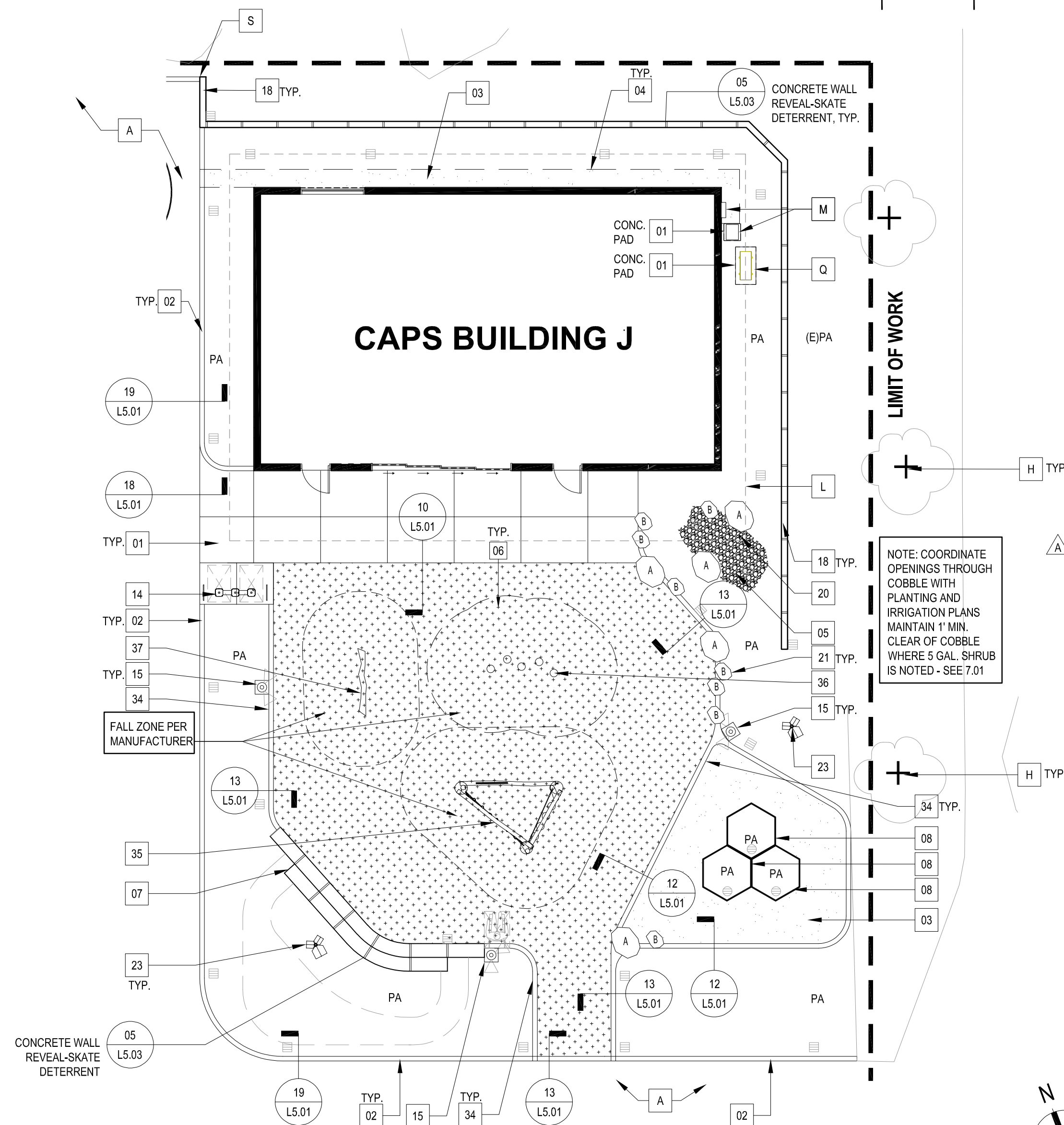
| SYM. | DESC.  | DET/<br>SHEET | SYM. | DESC.                           | DET/<br>SHEET |
|------|--|---------------|------|---------------------------------|---------------|
|      | PROPOSED FIRE HYDRANT                                | 02/<br>L5.01  |      | SAWCUT JOINT                    | 02/<br>L5.01  |
|      | DRAIN PER CIVIL                                      | 02/<br>L5.01  |      | EXPANSION JOINT                 | 02/<br>L5.01  |
|      | IRRIGATION CONTROLLER                                |               |      | LIMIT OF WORK                   |               |
|      | CLEAN OUT  |               |      | MATCHLINE                       |               |
|      | POST INDICATOR VALVE                                 |               |      | PROPERTY LINE/ RIGHT OF WAY     |               |
|      | POST INDICATOR VALVE / FIRE<br>DEPARTMENT CONNECTION |               |      | PA                              | PLANTING AREA |
|      | (E) DOMESTIC BACKFLOW<br>PREVENTOR                   |               |      | ALIGN                           |               |
|      | (E) DOMESTIC WATER METER                             |               |      | EXISTING TREE/ PROTECT IN PLACE |               |

NOTES:

- UTILITIES SHOWN ARE FOR REFERENCE ONLY. SEE CIVIL DWGS. FOR DETAILS AND EXACT LOCATIONS. FINAL LOCATIONS TO BE REVIEWED BY LANDSCAPE ARCHITECT.
- FOR SITE LIGHTING LEGEND, SEE L0.01

## SITE LIGHTING LEGEND

| KEY<br>NOTE | DESCRIPTION | DET/<br>SHEET | COMMENTS   |
|-------------|-------------|---------------|--|
|             | LIGHT POLE  | 19/<br>L5.02  | SEE ELEC. PLANS FOR MODEL NO. AND COLOR<br>TO BE SELECTED FROM RAL COLOR CHART |

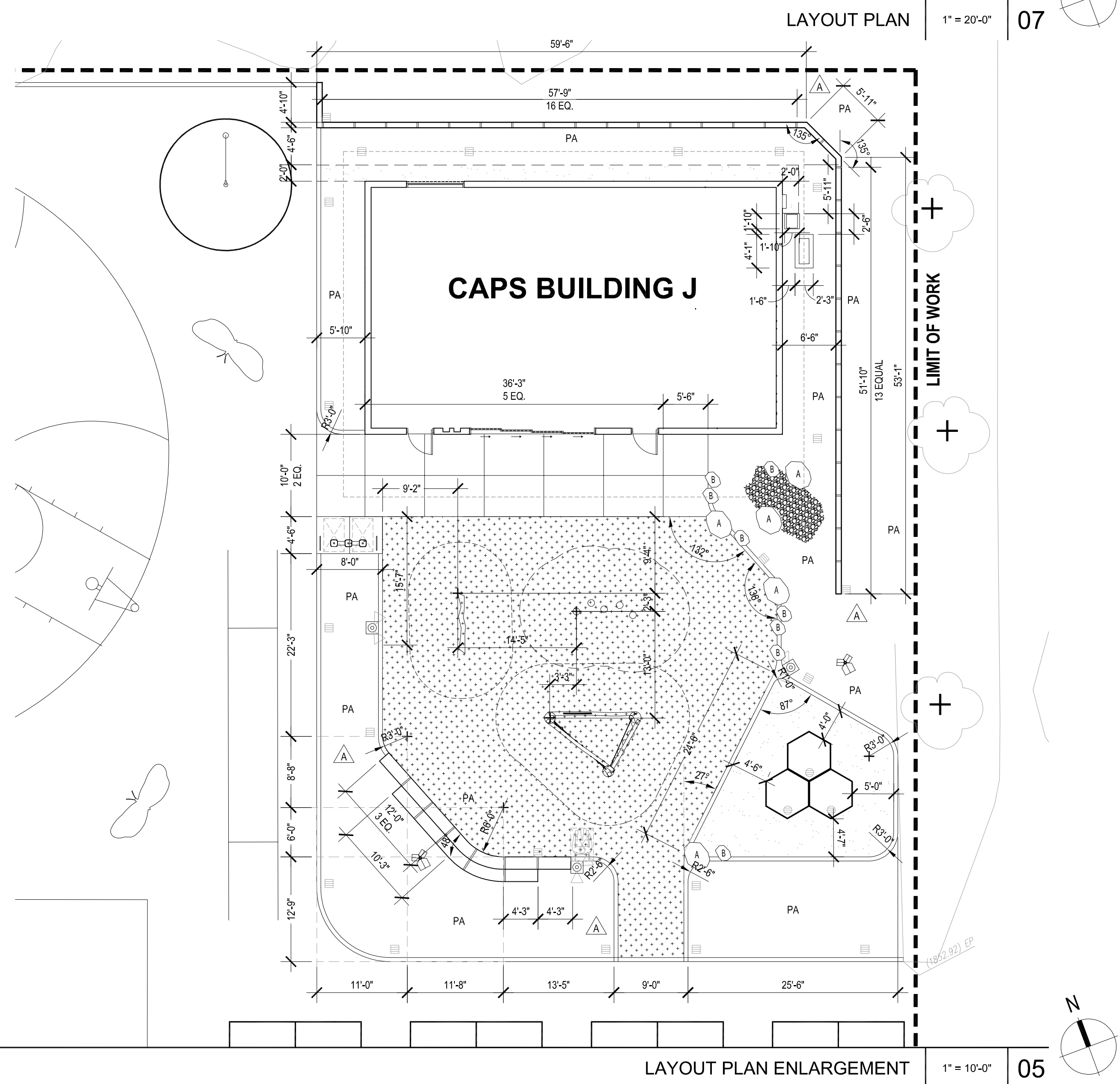
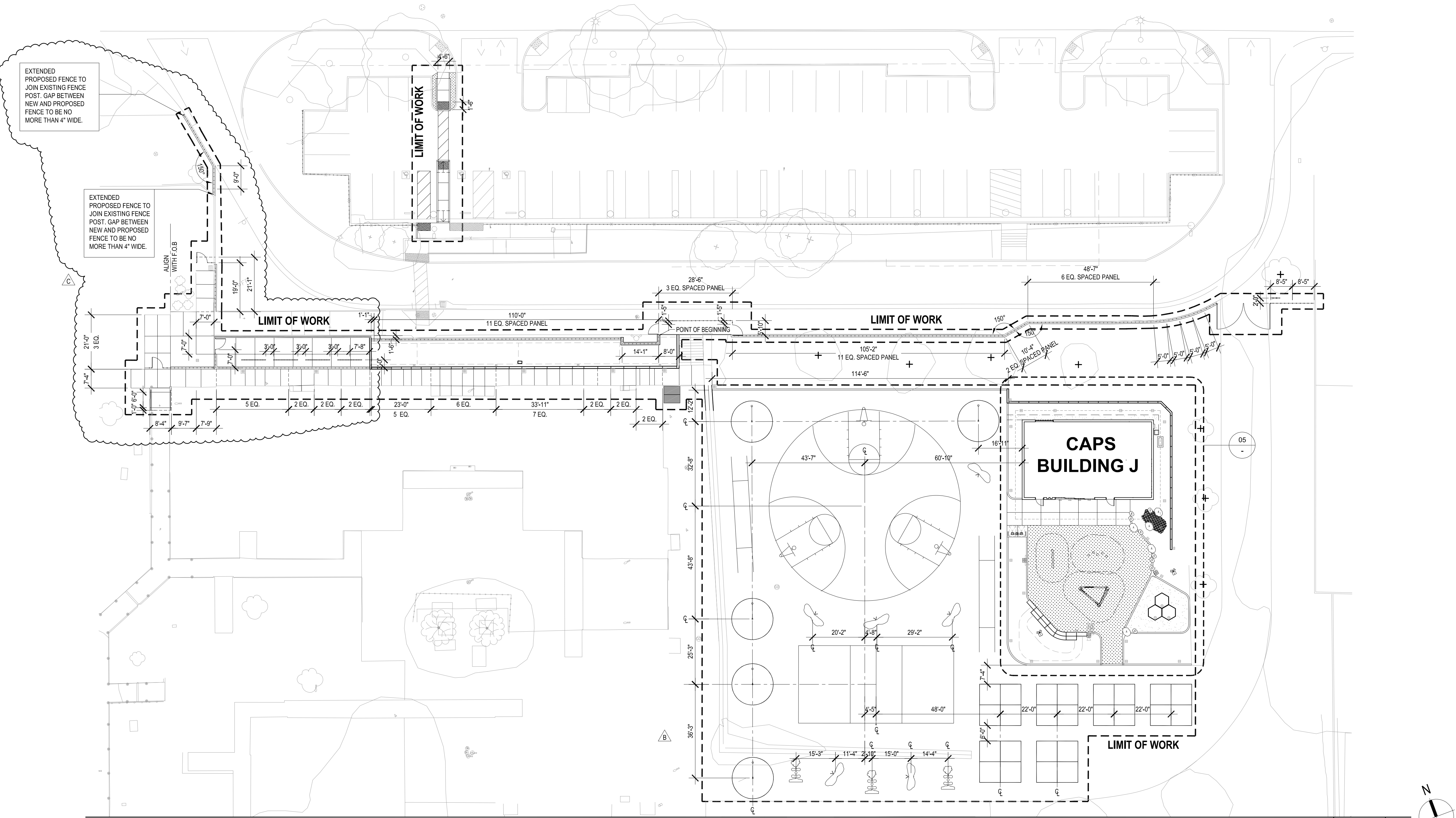


MATERIALS PLAN ENLARGEMENT

1" = 10'-0"

05





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5301 California Avenue, Suite 100  
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3555 W. MEYERS ROAD  
SAN BERNARDINO, CA 92407

Developed for  
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

| Revision      | Date       |
|---------------|------------|
| 1. ADDENDUM A | 07/31/2025 |
| 2. ADDENDUM B | 08/03/2025 |
| 3. ADDENDUM C | 09/22/2025 |

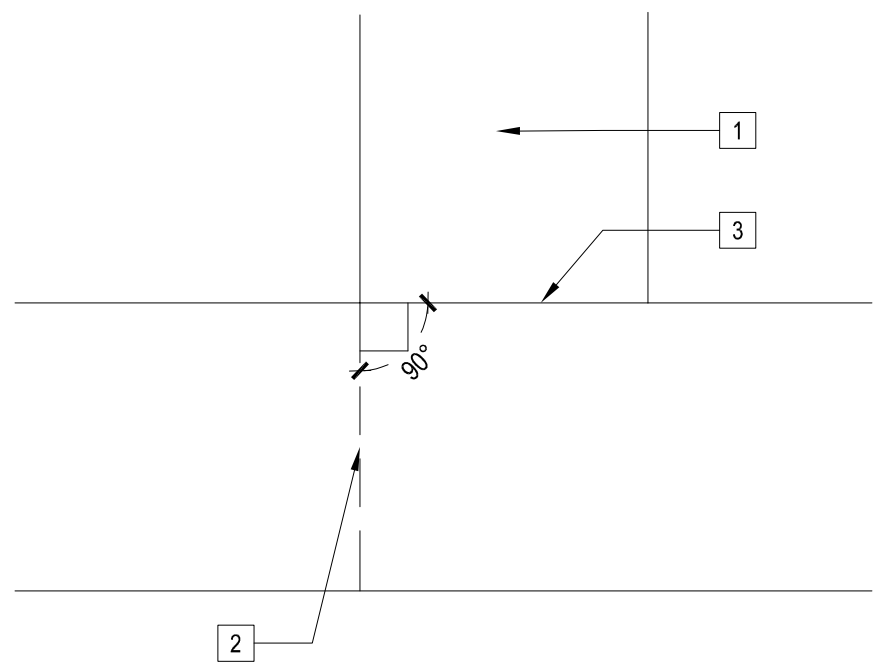
| Submital                   | Date       |
|----------------------------|------------|
| 100% SCHEMATIC DESIGN      | 02/12/2023 |
| 50% CONSTRUCTION DOCUMENTS | 03/28/2023 |
| DSA SUBMITTAL              | 04/13/2023 |
| DSA APPROVAL               | 08/07/2023 |

|                |            |
|----------------|------------|
| Job Number     | 30899      |
| Date Published | 09/22/2025 |
| Checked By     | AG         |
| Scale          | AS NOTED   |

LAYOUT PLAN

L2.01





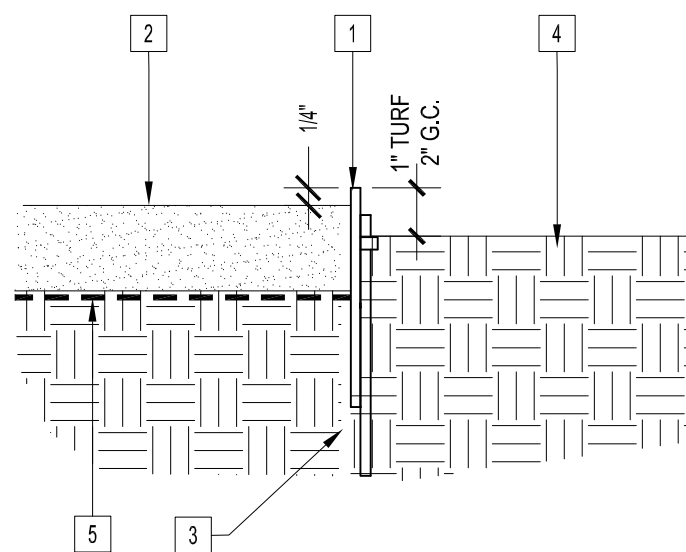
- 1 CONCRETE MOW CURB
- 2 EXPANSION JOINT, SEE 02
- 3 SAWCUT, SEE 02

NOTE:  
A. PROVIDE EXPANSION JOINT AS SHOWN AT ALL CHANGES IN DIRECTION.

CORNER @ MOW CURB

3"=1'-0"

24



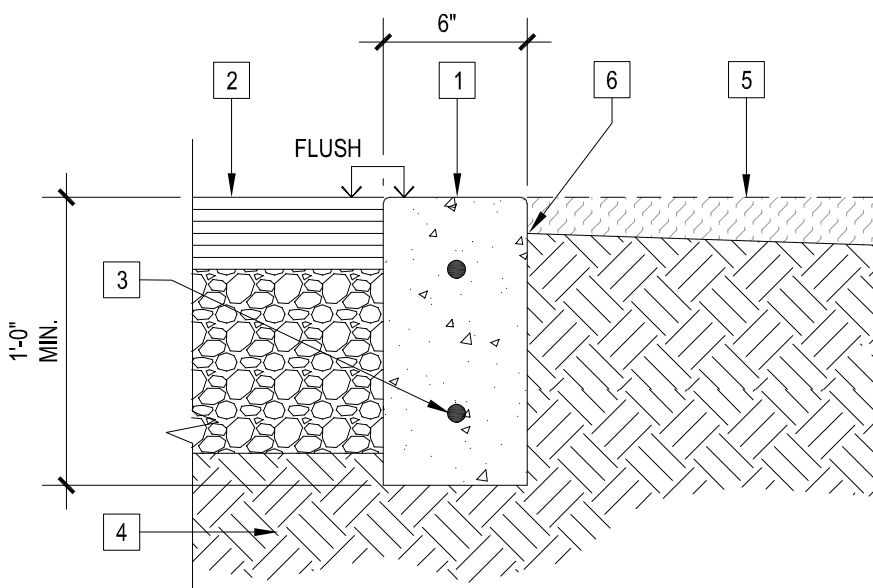
- 1 ALUMINUM EDGING BY PERMALOC, 8" SIZE
- 2 STABILIZED DECOMPOSED GRANITE, FINISH GRADE, REFER TO MATERIALS PLAN KEYNOTE LEGEND FOR COLOR
- 3 18" STEEL SPIKE AT 18" O.C.
- 4 PLANTING AREA, FINISH GRADE
- 5 SOIL SEPARATOR FABRIC MIRAFI 140N

NOTE:  
A. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
B. EDGING SHALL BE MILL FINISH NATURAL ALUMINUM.

ALUMINUM METAL EDGING

1 1/2"=1'-0"

20



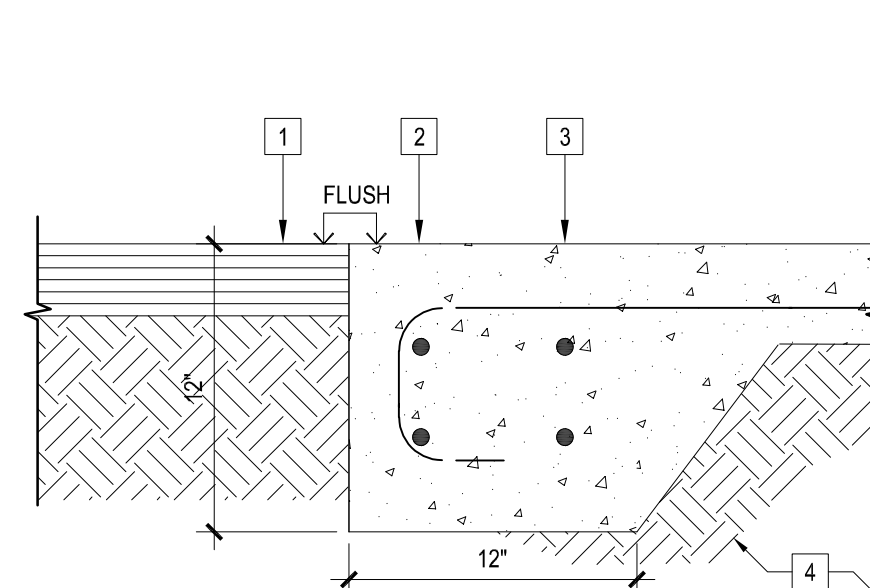
- 1 CONCRETE BAND; REFER TO MATERIALS PLAN FOR FINISH.
- 2 A.C. PAVING; REFER TO CIVIL DWGS.
- 3 (2) #4 CONTINUOUS HORIZONTAL REBAR.
- 4 COMPACTED SUBGRADE; REFER TO CIVIL DWGS.
- 5 PLANTING AREA; FINISH GRADE TOP OF BARK MULCH OR TURF.
- 6 AMENDED TOP SOIL FIN. GRADE ADJACENT TO CONC. BAND, 1" BELOW CONC. BAND AT TURF, 2.5" BELOW CONC. BAND AT SHRUB AND GROUND COVER AREA.
- 7 CONCRETE SLURRY MIX

NOTE:  
A. PROVIDE TOOLED JOINT EVERY 10'-0" OR TO ALIGN WITH PAVING JOINTS & EXPANSION JOINT EVERY 30' & AT EVERY CHANGE IN DIRECTION  
B. FOR DRAINAGE REFER TO CIVIL GRADING AND DRAINAGE PLANS  
C. MOW CURB CORNER CONDITION PER 24

A.C. PAVING ADJ TO PLANTING AREA

1 1/2"=1'-0"

19

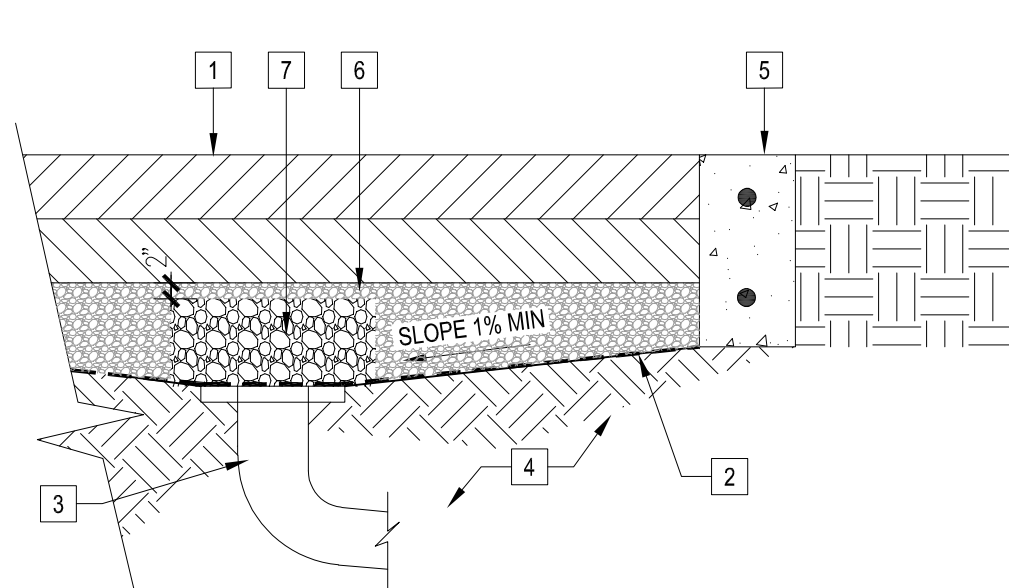


- 1 EXISTING ASPHALT PAVING
- 2 ADJACENT CONCRETE PAVING, FLUSH WITH ADJACENT PAVING, REFER TO MATERIALS PLAN
- 3 (4) #4 CONTINUOUS, BREAK @ EXPANSION JOINTS (MAX 30') AND DOWEL APPROPRIATELY
- 4 SUBGRADE COMPACTION TO BE MINIMUM 95%

CONC. PAVING ADJ. TO EX. ASPHALT

1 1/2"=1'-0"

18



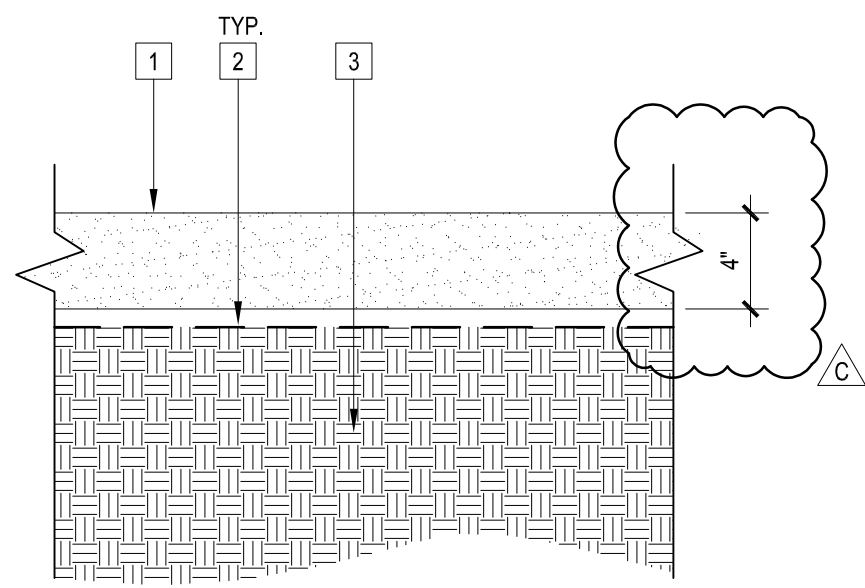
- 1 POURED IN PLACE RUBBER PLAY SURFACING PER 09
- 2 MIRAFI 140N FILTER FABRIC
- 3 DRAIN, REFER TO CIVIL ENGINEER'S PLANS FOR GRADING AND DRAIN LOCATIONS
- 4 BASE MATERIAL & COMPACTED SUBGRADE PER 01
- 5 CONCRETE EDGE FLUSH WITH POURED IN PLACE RUBBER PER 13
- 6 CLASS II AGGREGATE BASE
- 7 3/4" ANGULAR/CRUSHED WASHED DRAIN ROCK ABOVE EACH DRAIN INLET A MIN OF 48" DIA. COMPACT

NOTE:  
1. SLOPE SUBGRADE 1% MIN PER CIVIL  
2. THICKNESS OF PERMEABLE BASE SYSTEM VARIES DUE TO SUBGRADE SLOPE.

RUBBERIZED SURFACE DRAINAGE

1"=1'-0"

17



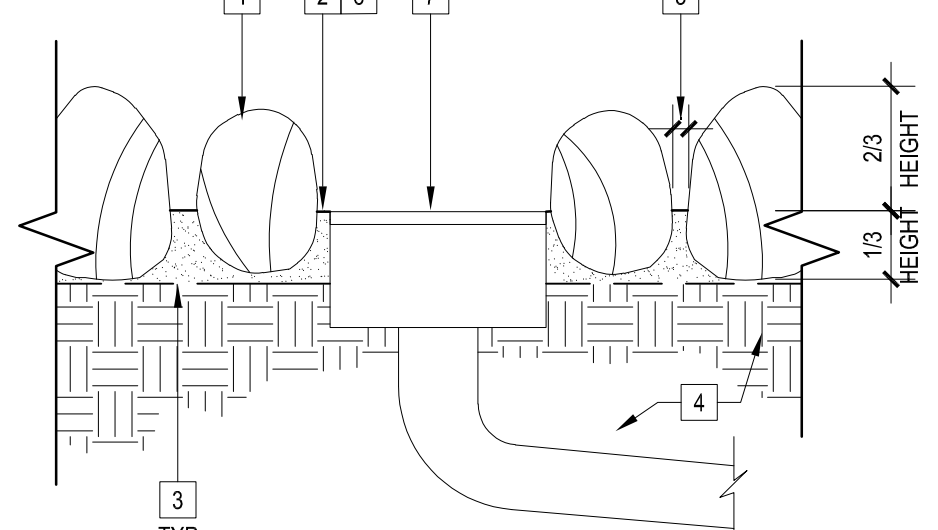
- 1 DECOMPOSED GRANITE PAVING W/ 'STABILIZER', REFER TO SPECIFICATIONS & MATERIALS PLAN
- 2 SOIL SEPARATOR FABRIC "MIRAFI" 140N
- 3 SUBGRADE COMPACTION TO BE MINIMUM 95%

NOTE:  
A. ALUMINUM METAL EDGING  
B. DECOMPOSED GRANITE ADJACENT TO CONCRETE BAND/ RUBBERIZED SURFACING  
C. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.

DECOMPOSED GRANITE PAVING

1 1/2"=1'-0"

16



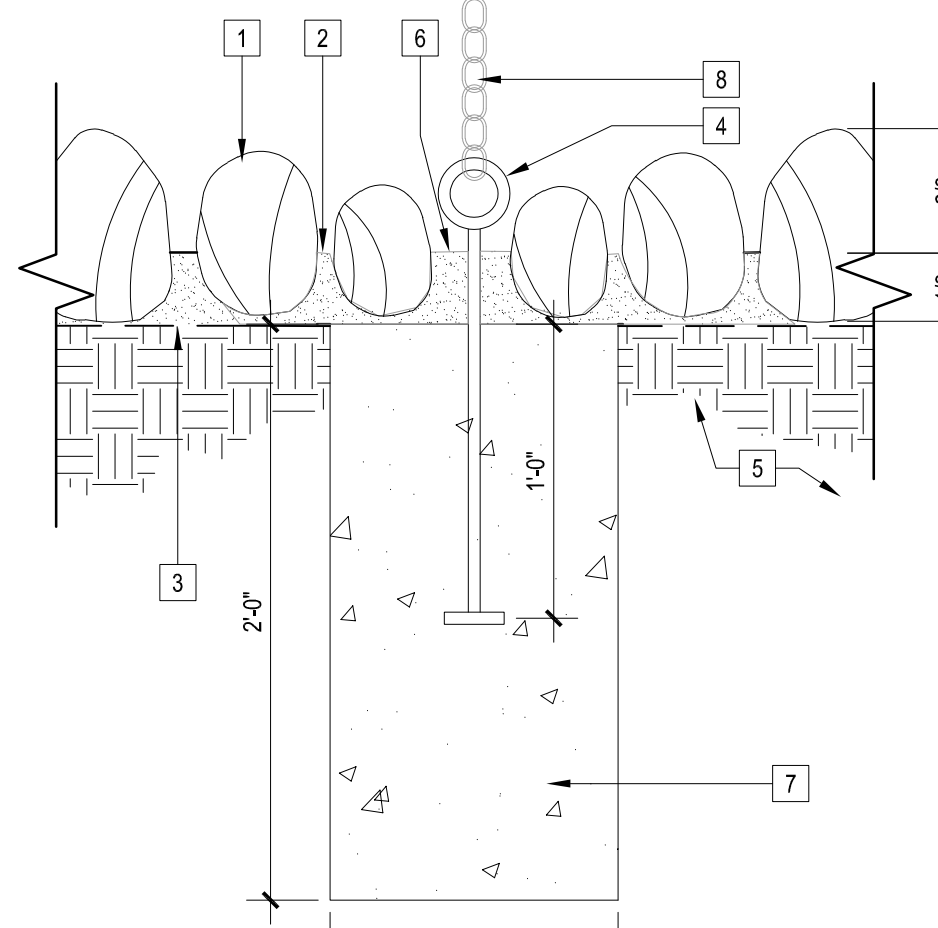
- 1 HAND SET COBBLES BY SOUTHWEST BOULDER AND STONE PER MATERIALS AND LAYOUT PLAN(S). MINIMUM 1/3 OF COBBLE TO BE BELOW FINISH SURFACE.
- 2 FINISH GRADE PER CIVIL
- 3 NON-WOVEN GEOTEXTILE FABRIC
- 4 SUBGRADE COMPACTION TO BE MINIMUM 95%
- 5 0-1" MAXIMUM SPACING BETWEEN COBBLES
- 6 CONCRETE SLURRY MIX
- 7 DRAIN INLET PER CIVIL WHERE OCCURS

NOTE:  
A. COBBLES SHALL BE POWER WASHED PRIOR TO PLACEMENT TO REMOVE DIRT AND DEBRIS.  
B. PROVIDE FIELD MOCK-UP FOR REVIEW BY THE LANDSCAPE ARCHITECT.  
C. FEATHER EDGES OF COBBLE PLACEMENT

HAND SET COBBLE

1 1/2"=1'-0"

15

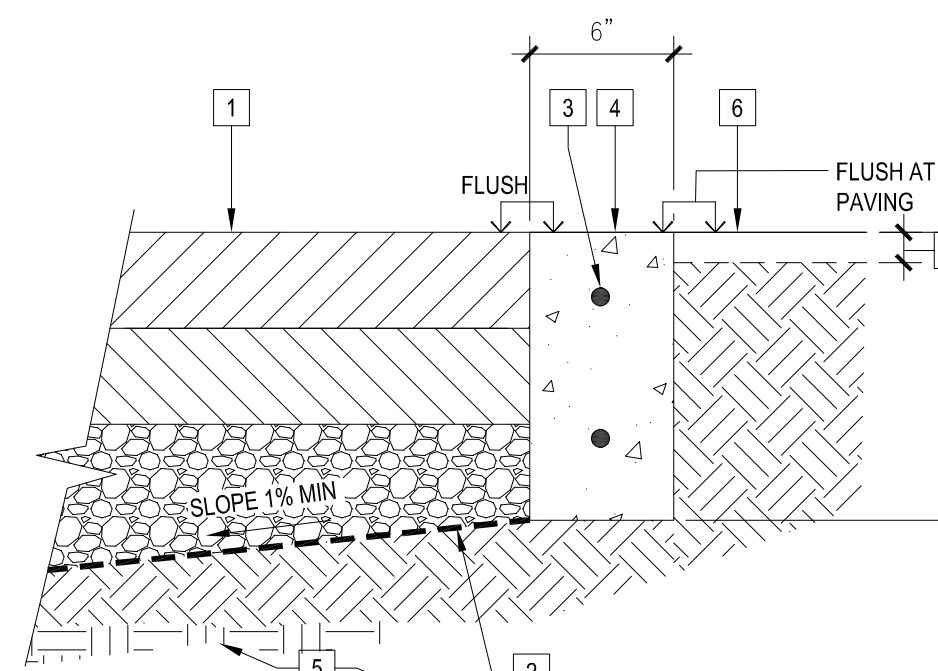


- 1 HAND SET COBBLES
- 2 CONCRETE SLURRY MIX
- 3 NON-WOVEN GEOTEXTILE FABRIC
- 4 GALVANIZED 1/2" EYE BOLT WITH HEADED ANCHOR BOLT
- 5 SUBGRADE COMPACTION TO BE MINIMUM 95%
- 6 FINISH GRADE PER CIVIL
- 7 CONCRETE FOOTING
- 8 RAIN CHAIN PER ARCH

RAIN CHAIN

1 1/2"=1'-0"

14

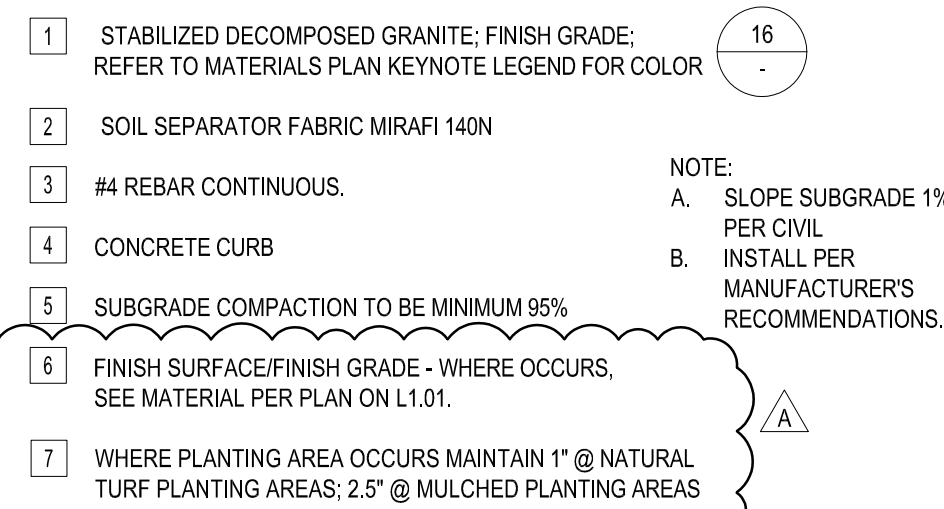


- 1 POURED IN PLACE RUBBER PLAY SURFACING PER 09
- 2 MIRAFI 140N FILTER FABRIC
- 3 #4 REBAR CONTINUOUS.
- 4 CONCRETE CURB
- 5 SUBGRADE COMPACTION TO BE MINIMUM 95%
- 6 FINISH SURFACE/ FINISH GRADE - WHERE OCCURS, SEE MATERIAL PER PLAN ON L.01
- 7 WHERE PLANTING AREA OCCURS MAINTAIN 1" @ NATURAL TURF PLANTING AREAS, 2.5" @ MULCHED PLANTING AREAS
- 8 MOW CURB CORNER CONDITION PER 24
- 9 RAIN CHAIN PER ARCH

CONC. BAND @ RUBBERIZED SURF.

1 1/2"=1'-0"

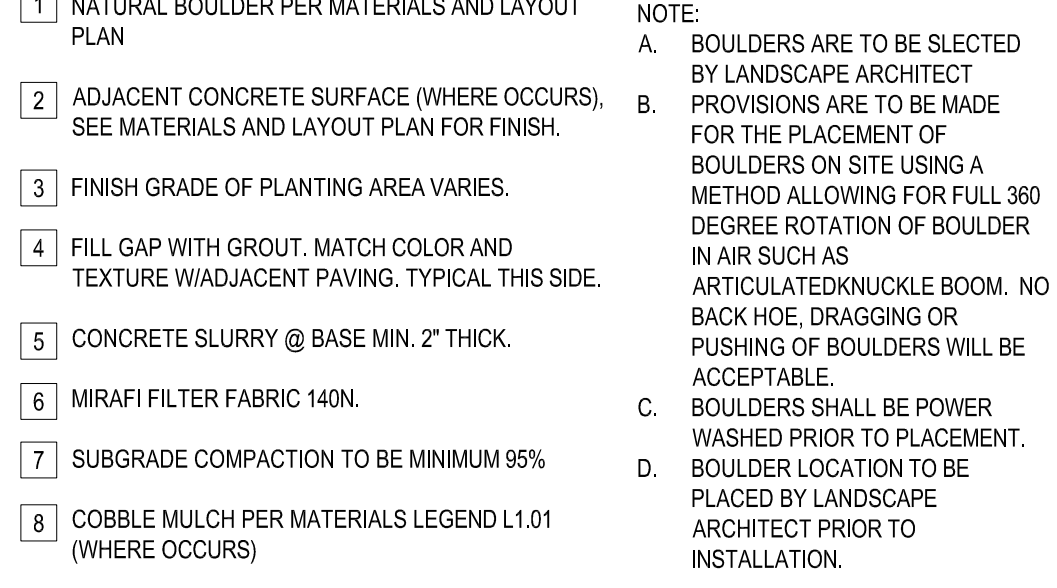
13



CONC. BAND @ DG PAVING

1 1/2"=1'-0"

12



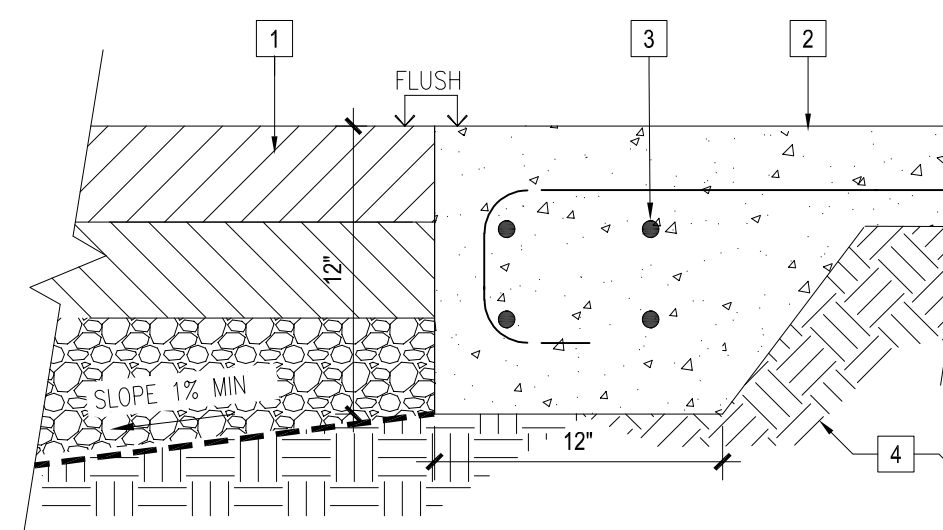
- 1 NATURAL BOULDER PER MATERIALS AND LAYOUT PLAN
- 2 ADJACENT CONCRETE SURFACE (WHERE OCCURS), SEE MATERIALS AND LAYOUT PLAN FOR FINISH.
- 3 FINISH GRADE OF PLANTING AREA VARIES.
- 4 FILL GAP WITH GROUT, MATCH COLOR AND TEXTURE W/ ADJACENT PAVING. TYPICAL THIS SIDE.
- 5 CONCRETE SLURRY @ BASE MIN. 2" THICK.
- 6 MIRAFI FILTER FABRIC 140N.
- 7 SUBGRADE COMPACTION TO BE MINIMUM 95% (WHERE OCCURS)
- 8 COBBLE MULCH PER MATERIALS LEGEND L.01 (WHERE OCCURS)

NOTE:  
A. BOULDERS ARE TO BE SELECTED BY LANDSCAPE ARCHITECT  
B. PROVISIONS ARE TO BE MADE FOR THE PLACEMENT OF BOULDERS ON SITE USING A METHOD ALLOWING FOR FULL 360 DEGREE ROTATION OF BOULDER IN AIR SUCH AS ARTICULATED/NOCKLE BOOM. NO BACK HIDE, DRAGGING OR PUSHING OF BOULDERS WILL BE ACCEPTABLE.  
C. BOULDERS SHALL BE POWER WASHED PRIOR TO PLACEMENT.  
D. BOULDER LOCATION TO BE PLACED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

BOULDER SETTING

1"=1'-0"

11



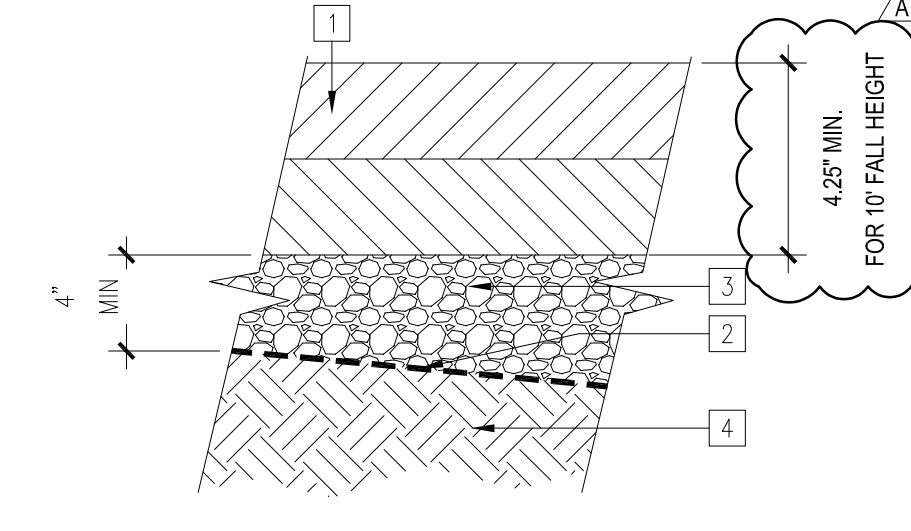
- 1 POURED IN PLACE RUBBER PLAY SURFACING PER 09
- 2 CONCRETE PAVING PER 01
- 3 (4) #4 CONTINUOUS, BREAK @ EXPANSION JOINTS (MAX 30') AND DOWEL APPROPRIATELY
- 4 SUBGRADE COMPACTION TO BE MINIMUM 95%

NOTE:  
A. PROVIDE SAWCUT JOINT EVERY 8'-0" OR TO ALIGN WITH PAVING JOINTS & EXPANSION JOINT EVERY 30' & @ EVERY CHANGE IN DIRECTION PER 02  
B. FOR PERIMETER DRAIN SEE CIVIL DRAWINGS

RUBBER PLAY SURFACING @ CONC. PAVING W/ THICKENED EDGE

1 1/2"=1'-0"

10



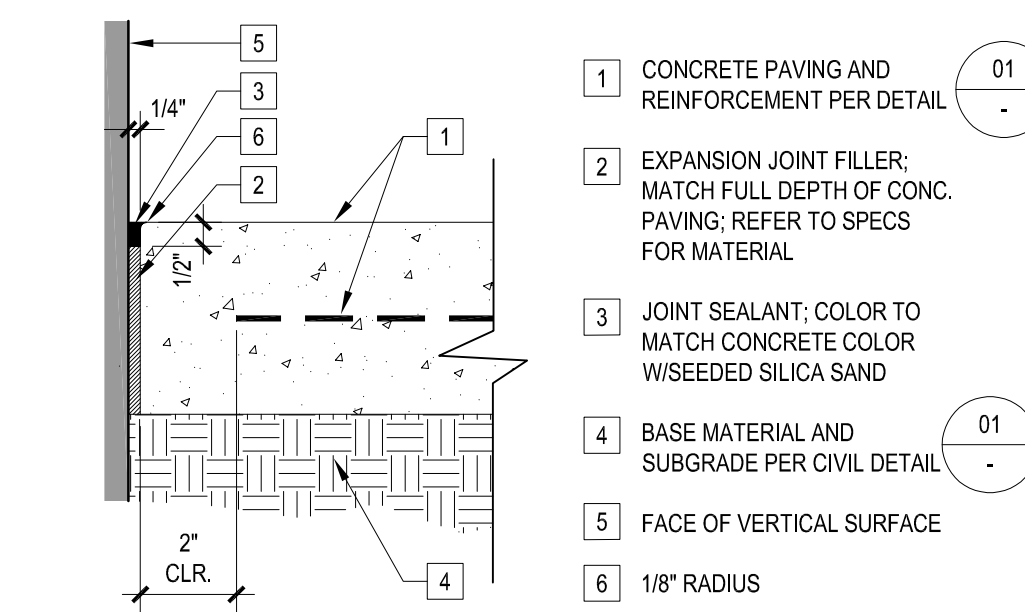
- 1 POURED IN PLACE RUBBER PLAY SURFACING WEAR COURSE & IMPACT LAYER, VERIFY THICKNESS OF SURFACING WITH FALL HEIGHTS OF PLAY STRUCTURES, INSTALL PER MANUFACTURER'S RECOMMENDATIONS
- 2 MIRAFI 140N FILTER FABRIC, SUBGRADE SLOPED TO DRAIN AT 1% MIN. SEE CIVIL
- 3 CLASS II AGGREGATE BASE COMPACTED PER THE PIP MANUF. (80% RC MIN)
- 4 SUBGRADE COMPACTION TO BE MINIMUM 95%
- 5 NEW CONCRETE PAVING AND REINFORCING, REFER TO DTL.
- 6 EXISTING CONCRETE PAVING
- 7 1/2" X 24" SMOOTH STEEL DOWEL AT 18" O.C.
- 8 5/8" SLIP SLEEVE DRILLED INTO EXISTING CONCRETE PAVING, DOWEL TO HAVE FREE MOVEMENT ON THIS SIDE
- 9 JOINT SEALANT WITH BACKER ROD, PER 04
- 10 BASE MATERIAL AND COMPACTED SUBGRADE, REFER TO DTL.
- 11 1/8" RADIUS; AT NEW CONCRETE PAVING

NOTE:  
A. INSTALL RUBBER PLAY SURFACING PER MANUFACTURER'S RECOMMENDATIONS.  
B. ALL PLAY SURFACING TO HAVE PASSED MIN. ASTM F1292-93 AND HEAD INJURY CRITERIA (HIIC) TESTS FOR UP TO 12'-0" HTS.  
C. ENSURE THE SUBGRADE SLOPES TO DRAIN PER CIVIL PRIOR TO INSTALLING THE PIP RUBBER SURFACING.  
D. RUBBERIZED SURFACE DRAINAGE PER 17  
E. CONCRETE THICKENED EDGE @ PERMEABLE PLAY SURFACING PER 13  
F. CONCRETE CURB @ PERMEABLE PLAY SURFACING PER 13

RUBBER PLAY SURFACING

1 1/2"=1'-0"

09



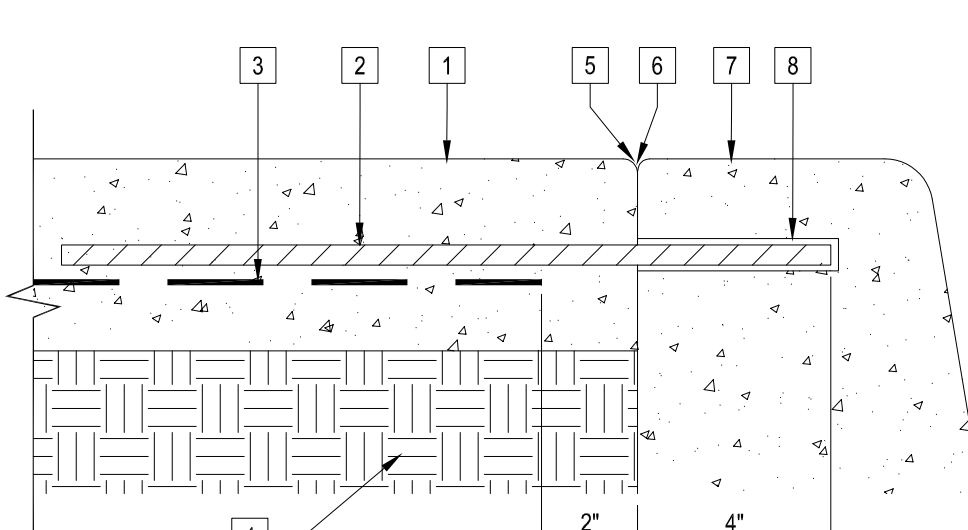
- 1 CONCRETE PAVING AND REINFORCEMENT PER DETAIL
- 2 EXPANSION JOINT FILLER; MATCH FULL DEPTH OF CONC. PAVING; REFER TO SPECS FOR MATERIAL
- 3 JOINT SEALANT; COLOR TO MATCH CONCRETE COLOR W/ SEDED SILICA SAND
- 4 BASE MATERIAL AND SUBGRADE PER CIVIL DETAIL
- 5 FACE OF VERTICAL SURFACE
- 6 1/8" RADIUS

NOTES:  
A. PROVIDE EXPANSION JOINT AT ALL VERTICAL SURFACES.  
B. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.  
C. STRUCTURAL TESTING/INSPECTION EXEMPT PER DSA 103 APPENDIX

EXPANSION JOINT AT VERTICAL SURFACE

3"=1'-0"

08



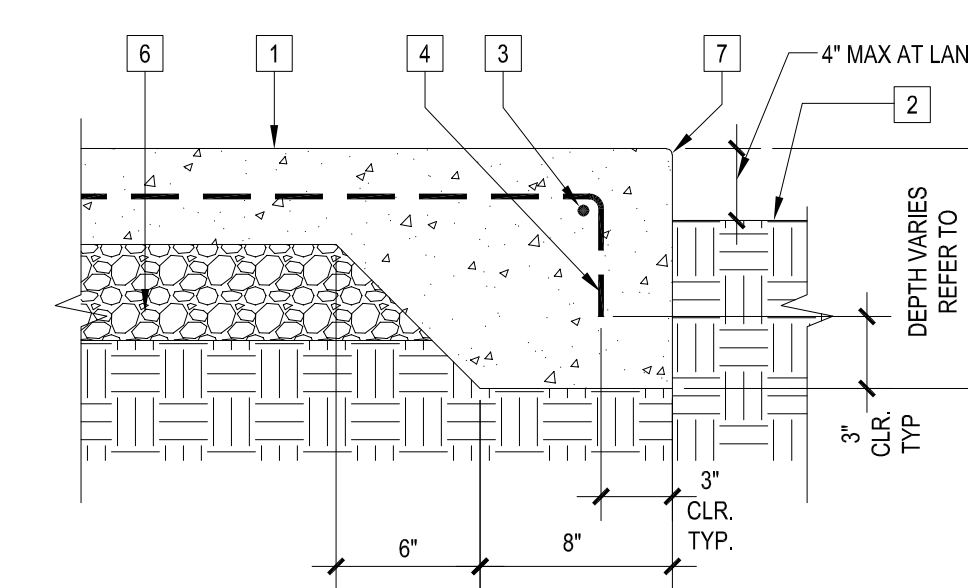
- 1 CONCRETE PAVING; REFER TO DTL.
- 2 DOWEL PER DTL.
- 3 CONCRETE PAVING STEEL REINFORCEMENT; REFER TO DTL.
- 4 BASE MATERIAL & COMPACTED SUBGRADE; REFER TO DTL.
- 5 1/8" RADIUS
- 6 COLD JOINT
- 7 CONCRETE CURB; REFER TO CIVIL DTL.
- 8 DRILLED 5/8" DIA. SLIP SLEEVE AT CONCRETE CURB; DOWEL TO HAVE FREE MOVEMENT THIS SIDE

NOTES:  
A. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.  
B. STRUCTURAL TESTING/INSPECTION EXEMPT PER DSA 103 APPENDIX.

PAVING JOINT AT CURB

3"=1'-0"

07



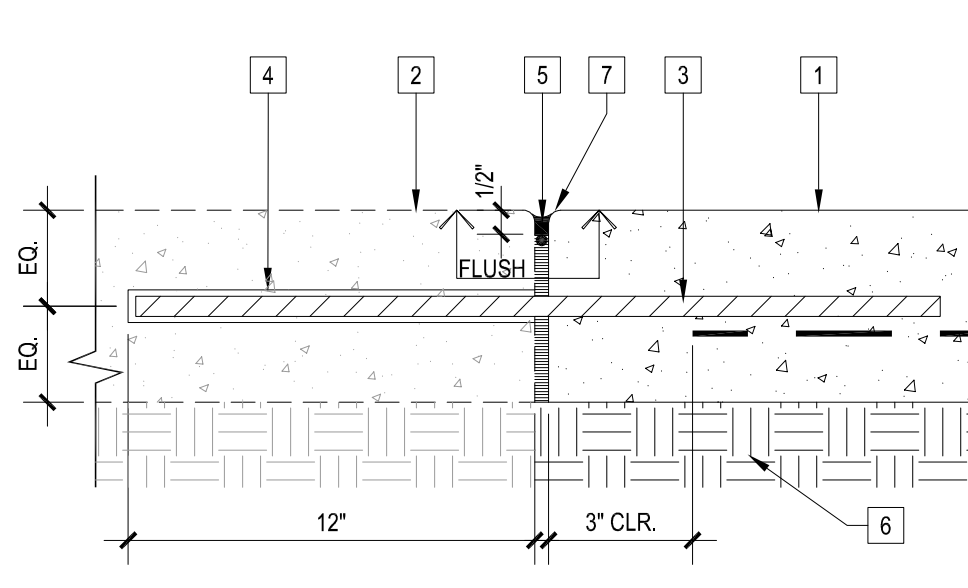
- 1 CONCRETE PAVING; REFER TO DTL.
- 2 ADJACENT SURFACE/ FINISH GRADE; REFER TO PER MATERIALS PLAN
- 3 (2) #4 REINFORCING, CONTINUOUS
- 4 EXTEND REINFORCEMENT FROM PAVING INTO THICKENED EDGE & WRAP ENDS
- 5 UNLESS NOTED OTHERWISE - THICKENED EDGE; 9" DEPTH FOR PEDESTRIAN PAVING, 12" DEPTH FOR VEHICULAR PAVING
- 6 BASE MATERIAL & COMPACTED SUBGRADE; REFER TO CIVIL DTL.
- 7 EASE ALL EDGES, 1/4" R. TYP.
- 8 EXPANSION JOINT

NOTE:  
A. ADD EXPANSION JOINTS AT ALL THICKENED EDGE CONDITIONS ADJACENT TO OTHER PAVING TYPES PER DETAIL

CONC. PAVING THICKENED EDGE

1 1/2"=1'-0"

06



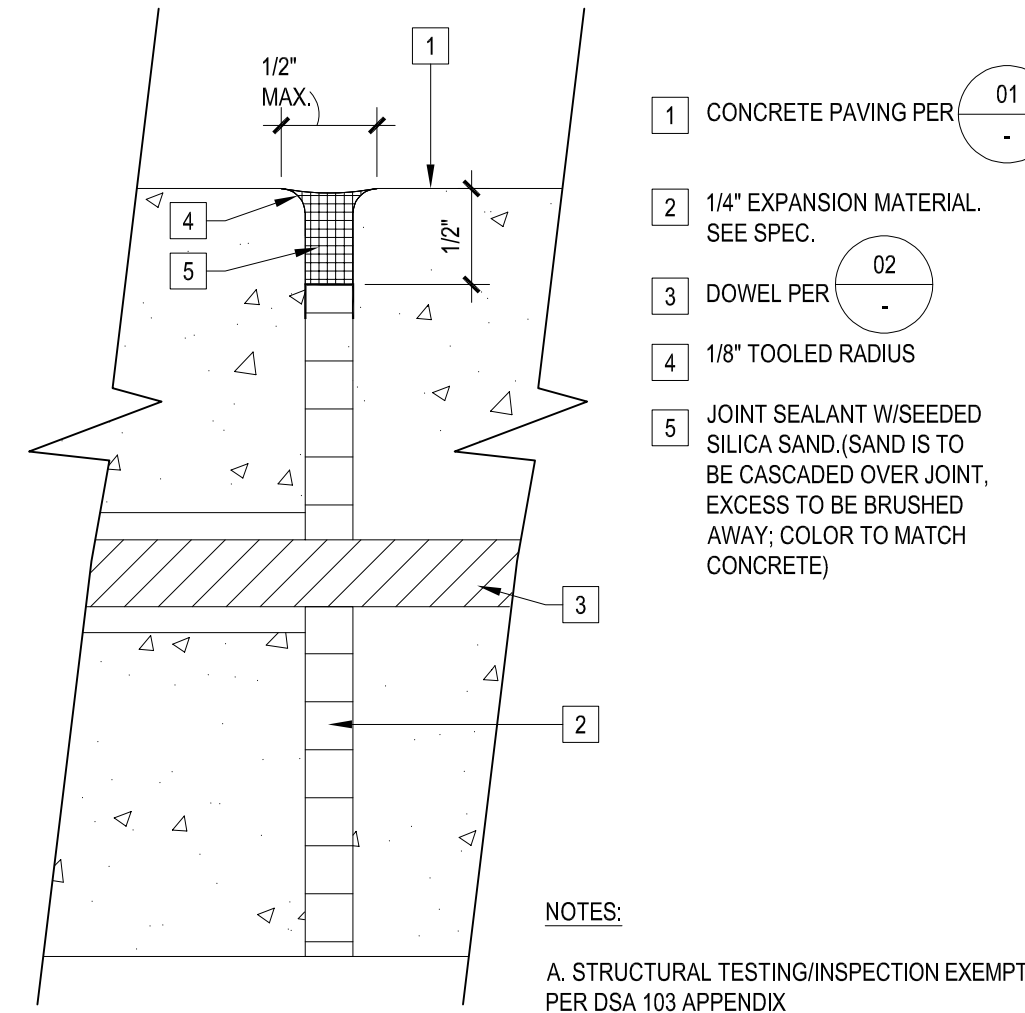
- 1 NEW CONCRETE PAVING AND REINFORCING, REFER TO DTL.
- 2 EXISTING CONCRETE PAVING
- 3 1/2" X 24" SMOOTH STEEL DOWEL AT 18" O.C.
- 4 5/8" SLIP SLEEVE DRILLED INTO EXISTING CONCRETE PAVING, DOWEL TO HAVE FREE MOVEMENT ON THIS SIDE
- 5 JOINT SEALANT WITH BACKER ROD, PER 04
- 6 BASE MATERIAL AND COMPACTED SUBGRADE, REFER TO DTL.
- 7 1/8" RADIUS; AT NEW CONCRETE PAVING

NOTES:  
A. PROVIDE CLEAN SAWCUT AT ALL LOCATIONS WHERE NEW CONCRETE JOINS EXISTING CONCRETE.  
B. PROVIDE CLEAN SAWCUT AT EXISTING PAVING, EXTEND PROPOSED PAVING AS REQUIRED TO CLOSEST ADJACENT JOINT.  
C. SEE CIVIL PLANS FOR LIMIT OF DEMOLITION.  
D. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.  
E. STRUCTURAL TESTING/INSPECTION EXEMPT PER DSA 103 APPENDIX.

CONCRETE PAVING TIE-IN

3"=1'-0"

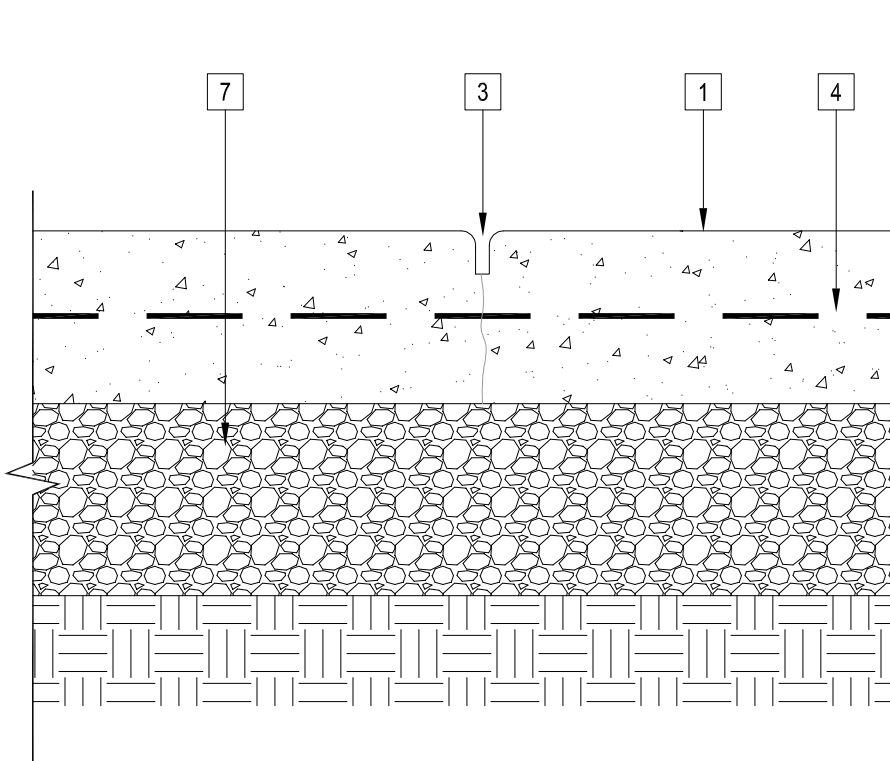
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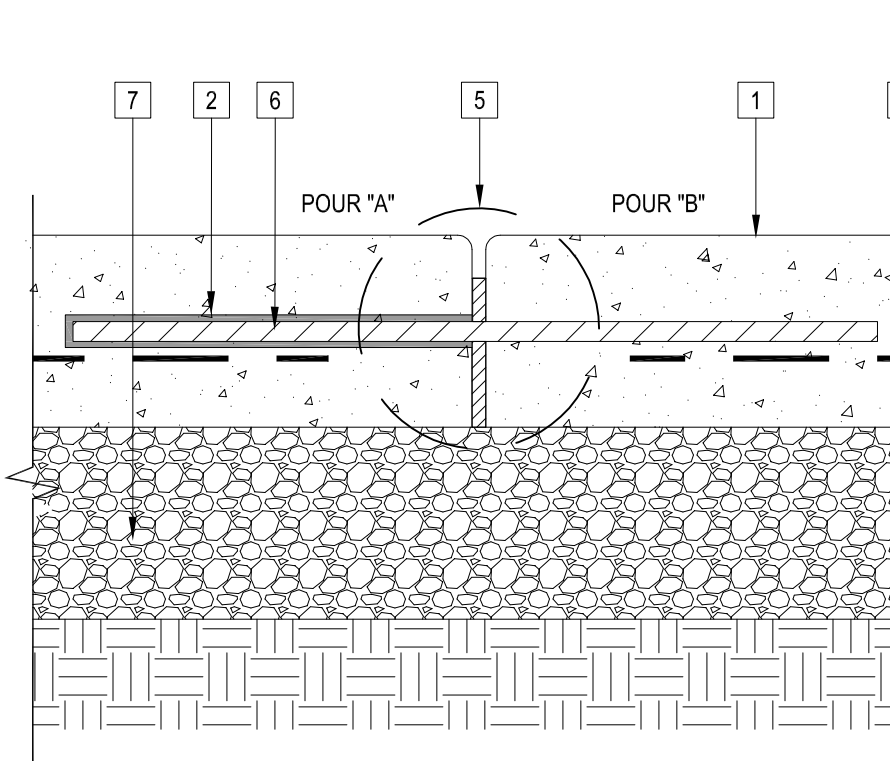
EXPANSION JOINT ENLARGEMENT

FULL

04



A. SAWCUT CONTROL JOINT



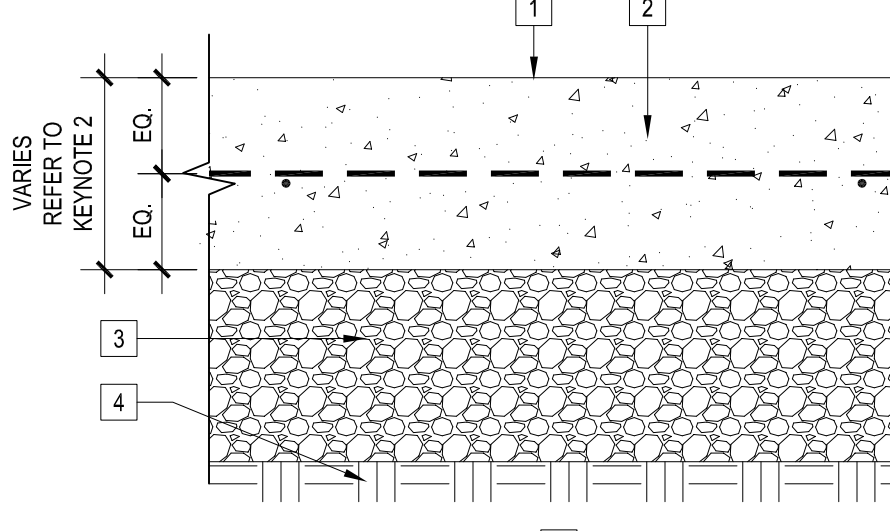
- 1 CONCRETE PAVING; REFER TO DETAIL
- 2 "SPEED DOWEL", BY SIKKA CORPORATION CONCRETE ACCESSORIES, PRODUCT # PSD12/ #4TX
- 3 SAWCUT CONTROL JOINT, 1/8-INCH WIDE, CUT TO 1/4 DEPTH OF SLAB, PROVIDE TIGHT 1/8-INCH RADIUS ON EDGE OF PAVING BEFORE SAWCUTTING.
- 4 CONCRETE PAVING REBAR, REFER TO DETAIL
- 5 JOINT ENLARGEMENT, REFER TO DETAIL
- 6 PEDESTRIAN: 5/8" SMOOTH STEEL DOWEL X 24" @ 24" O.C. VEHICULAR: 3/8" SMOOTH STEEL DOWEL X 24" @ 18" O.C.
- 7 AGGREGATE BASE AND SUBGRADE; REFER TO DETAIL

NOTE:  
A. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.  
B. STRUCTURAL TESTING/INSPECTION EXEMPT PER DSA 103 APPENDIX.  
C. EXPANSION JOINT AT VERTICAL SURFACE PER 08  
D. PAVING JOINT AT CURB PER 07

CONCRETE PAVING JOINTS

3"=1'-0"

02



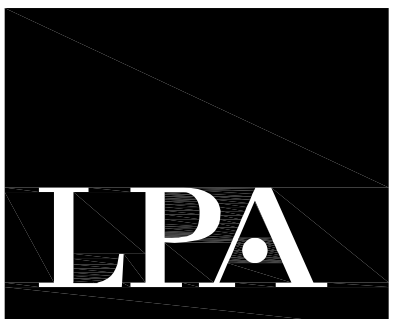
- 1 CONCRETE PAVING; REFER TO MATERIALS PLAN KEYNOTE LEGEND FOR FINISH & COLOR
- 2 FOR PAVING INFORMATION SEE CIVIL PAVING PLAN C5.01
- 3 AGGREGATE BASE SEE CIVIL PAVING PLAN C5.01
- 4 SUBGRADE PER GEOTECH REPORT

NOTES:  
A. SAWCUT & EXPANSION JOINTS, REFER TO DTL.  
B. PROVIDE DOWELS WHERE NEW CONCRETE TIES INTO EXISTING PER DTL.  
C. PROVIDE THICKENED EDGE AT COLLUMS, WALLS AND WHERE PAVING ADJACENT TO PLANTING.  
D. DO NOT ALLOW CONCRETE OVERPOUR INTO ADJACENT PLANTERS.  
E. NATIVE OR FILL SOIL SUPPORTING EXTERIOR NON-STRUCTURAL FLATWORK AND UNPAVED LANDSCAPING AREAS ARE EXEMPT FROM SPECIAL INSPECTION AND TESTING.  
F. STRUCTURAL TESTING/INSPECTION EXEMPT PER DSA 103 APPENDIX.

CONCRETE PAVING

3"=1'-0"

01



ARCHITECTURE ENGINEERING INTERIORS  
LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPA Design Studios.com

5301 California Avenue, Suite 100  
Irvine, California 92617

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3555 W. MEYERS ROAD  
SAN BERNARDINO, CA 92407

Developed for  
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

| Revision | Date       |
|----------|------------|
| 1        | 07/12/2025 |
| 2        | 07/12/2025 |
| 3        | 09/22/2025 |

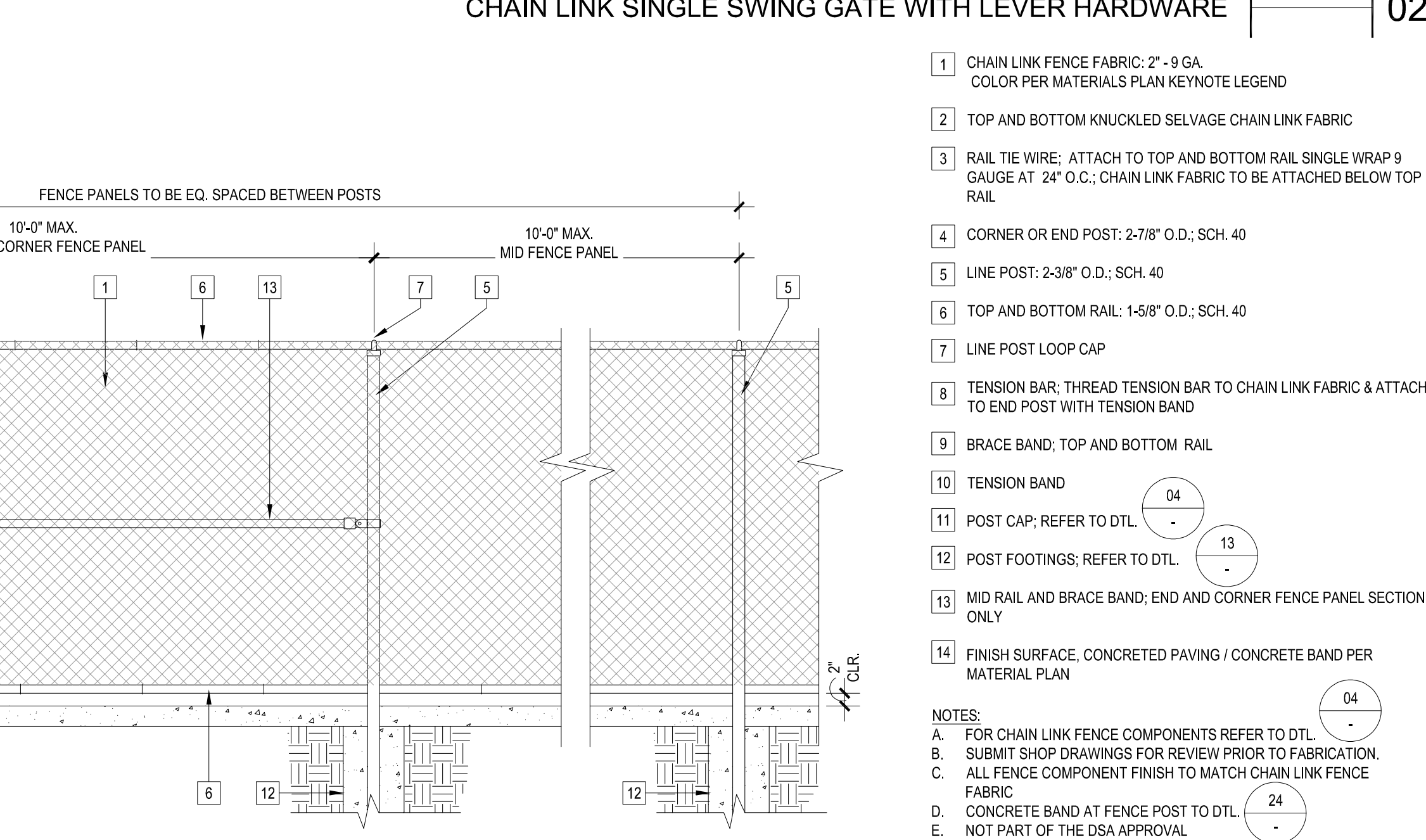
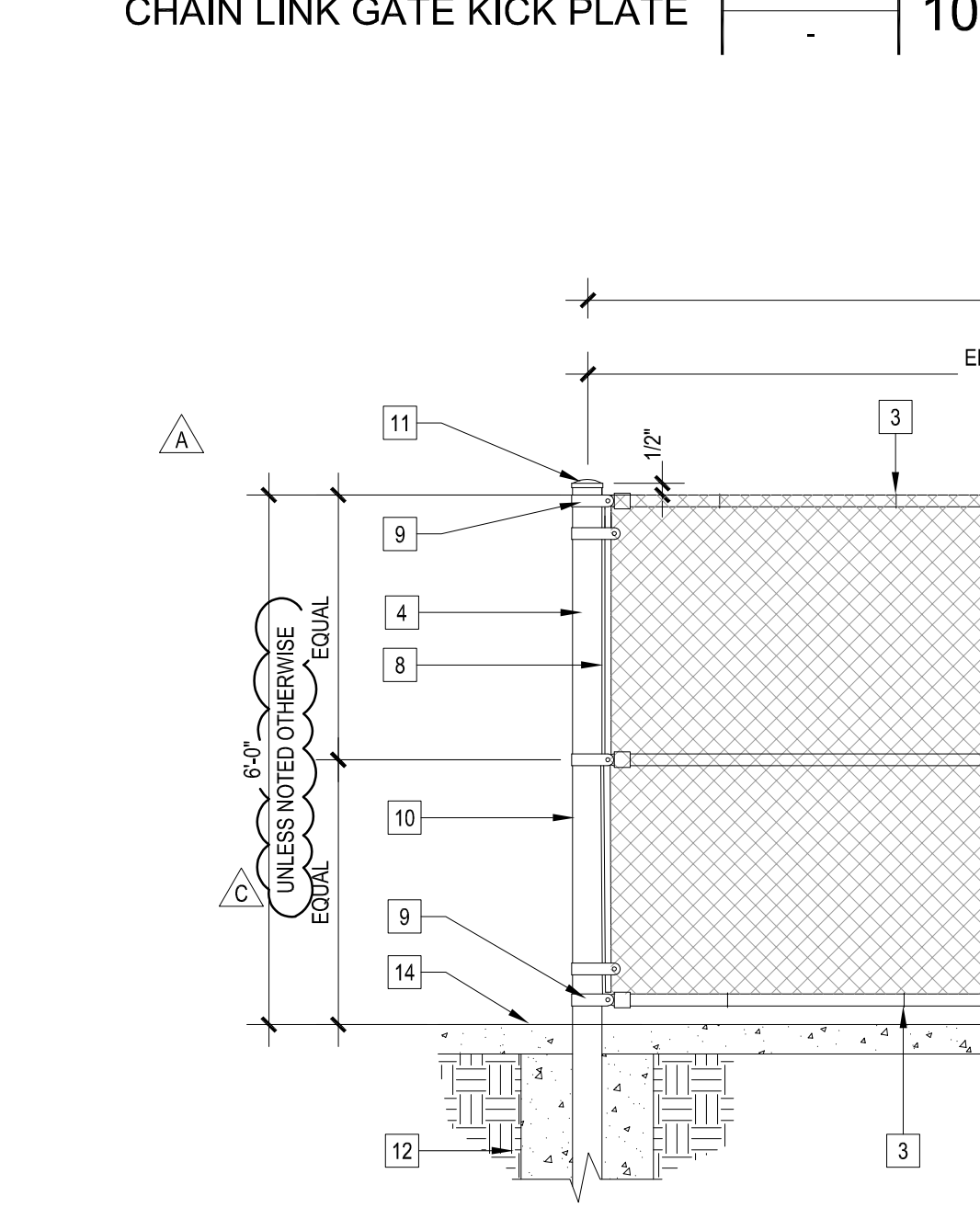
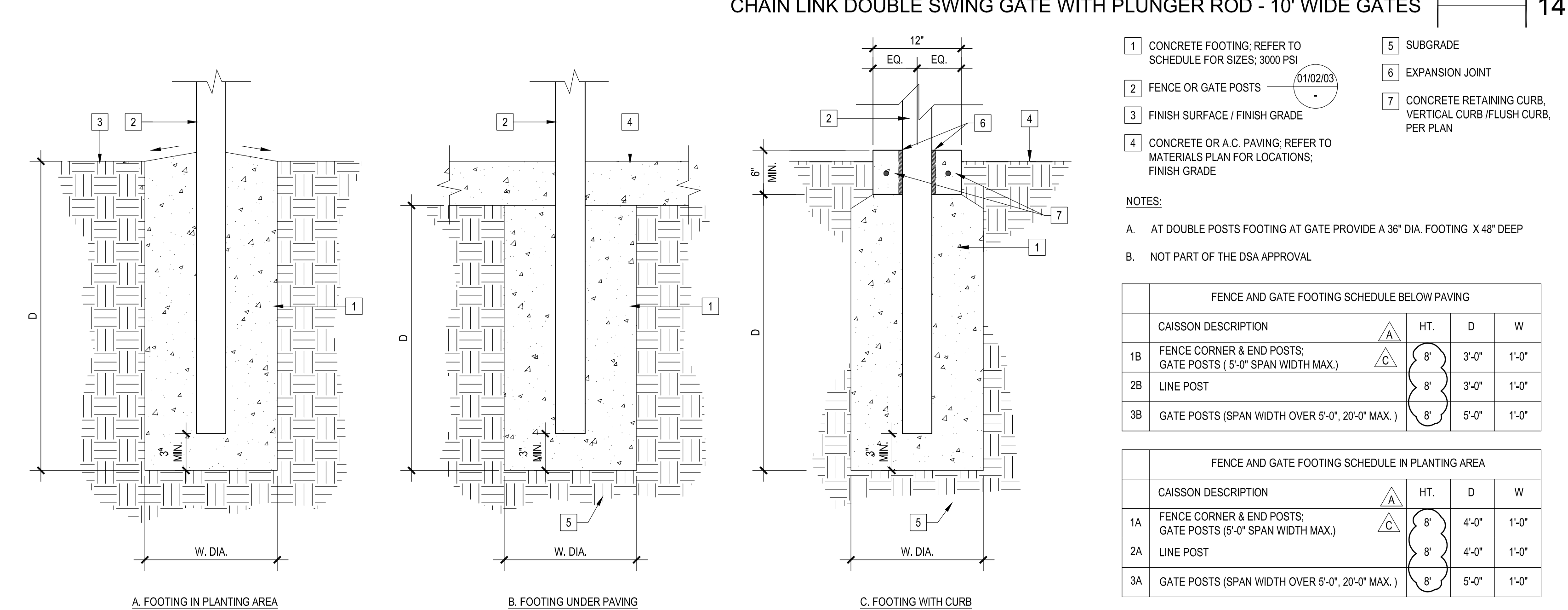
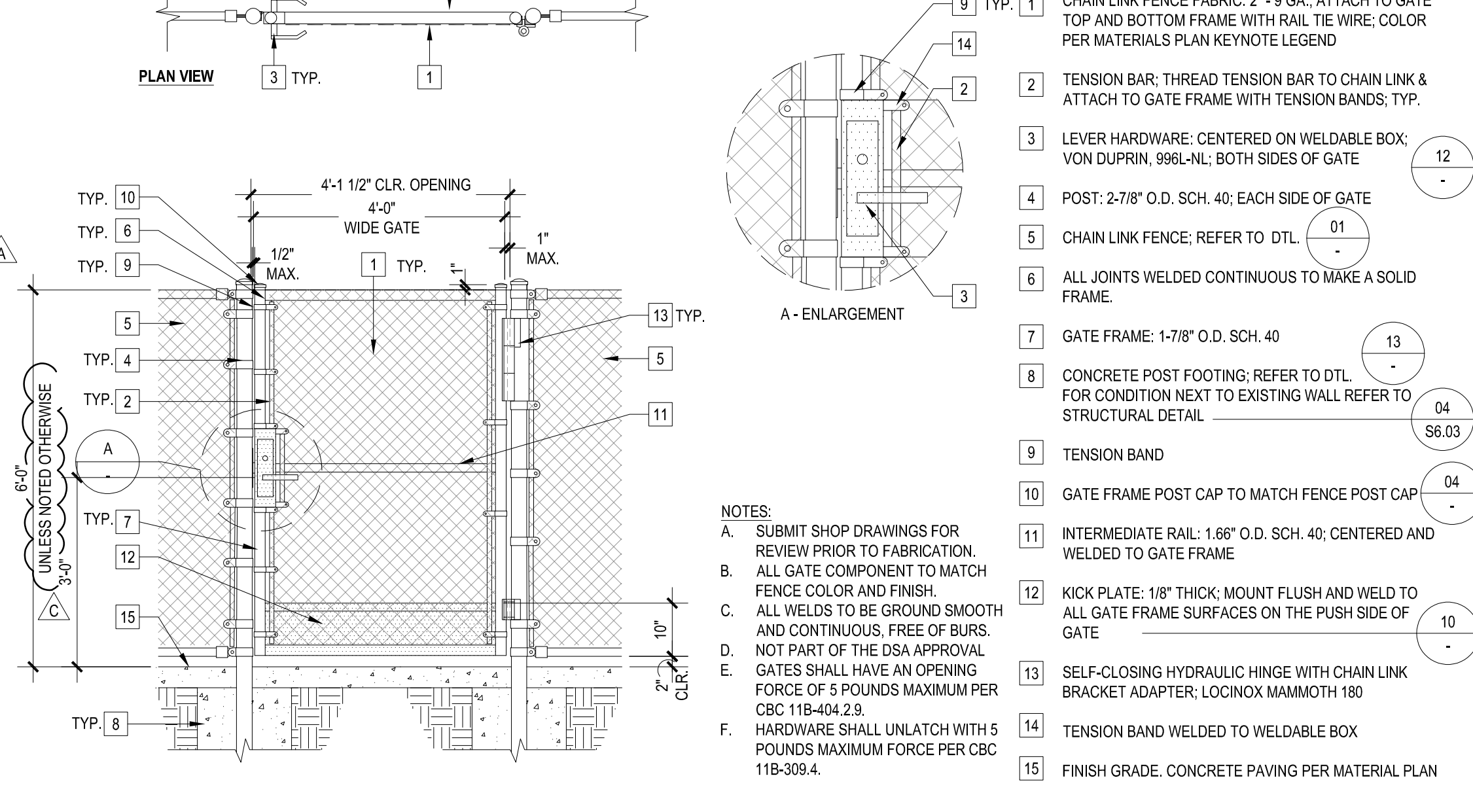
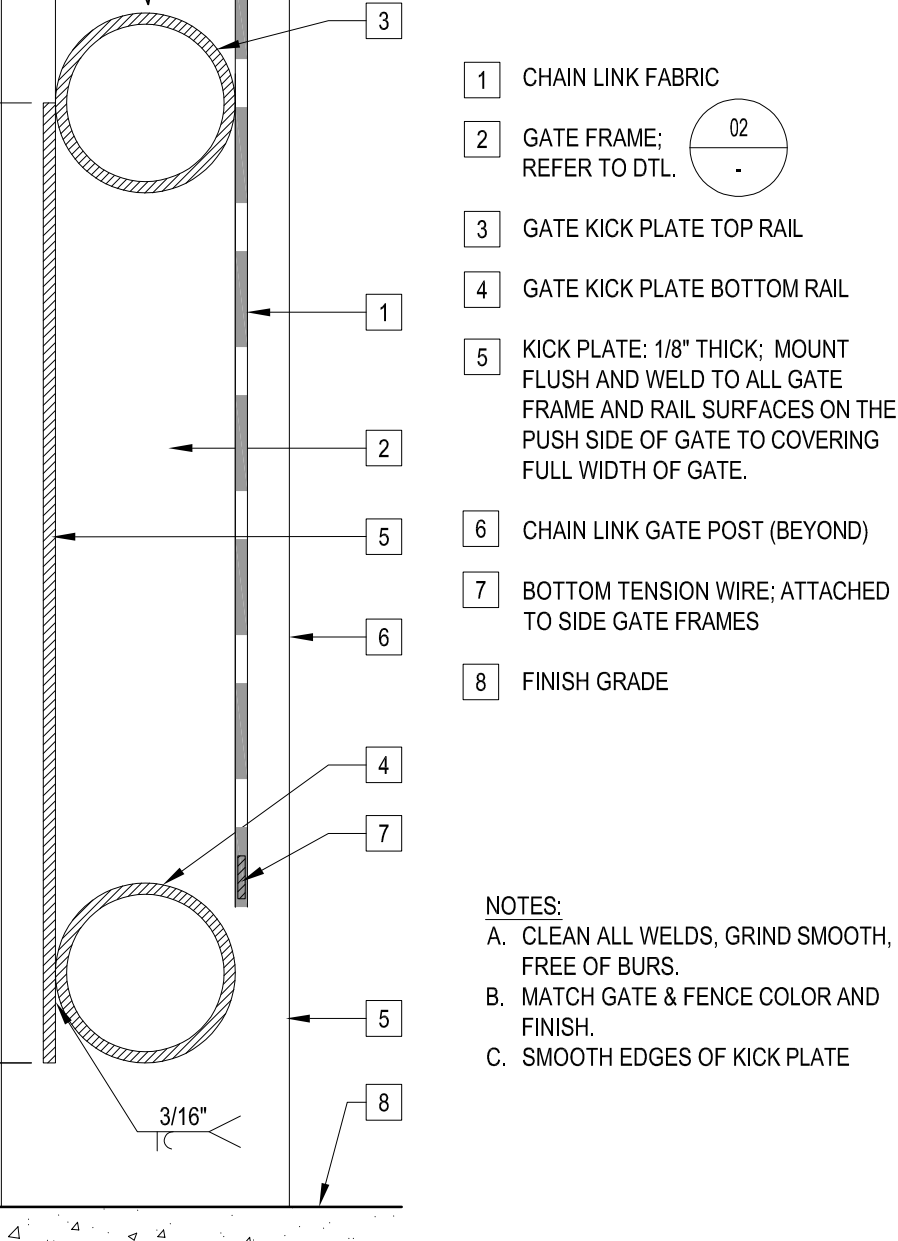
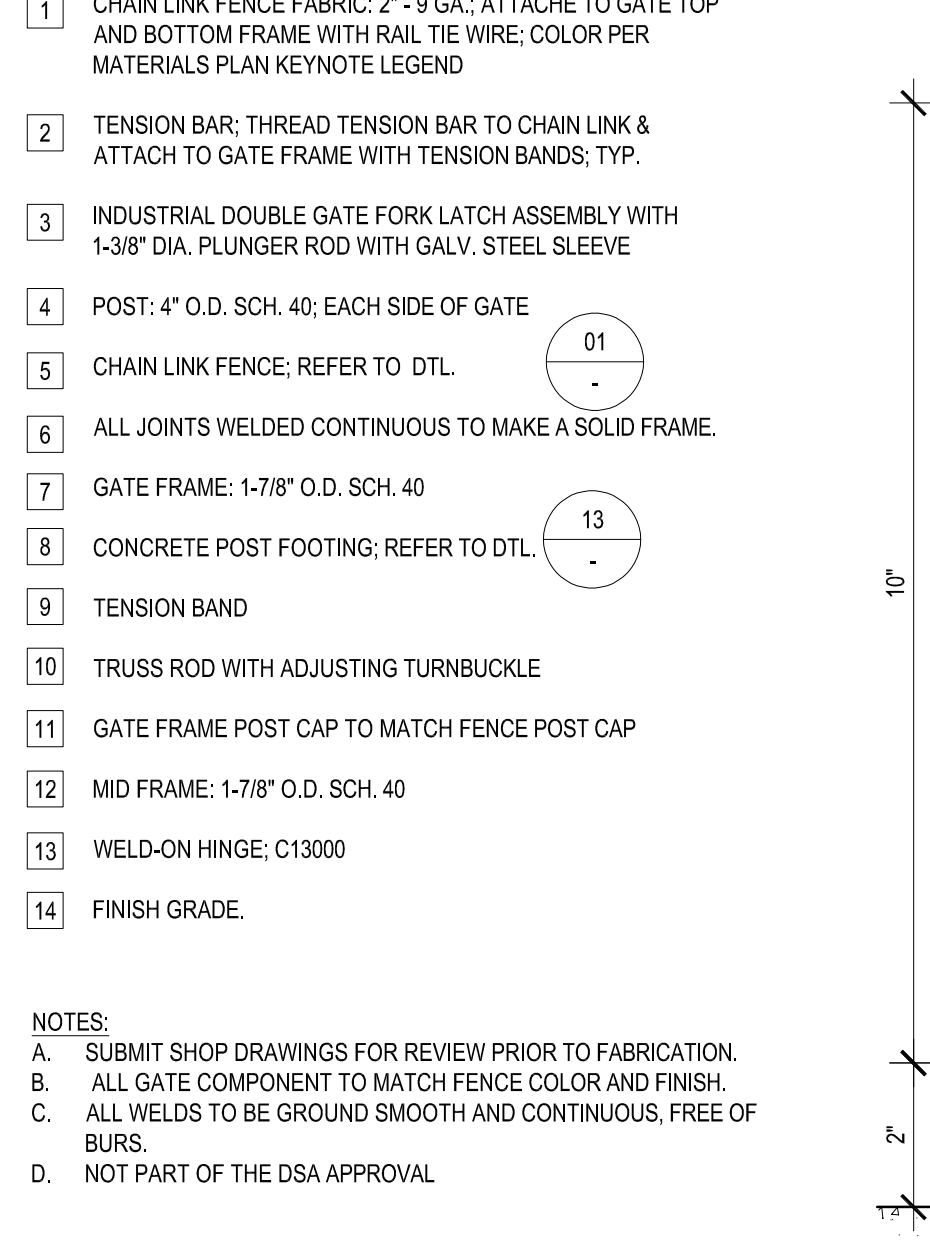
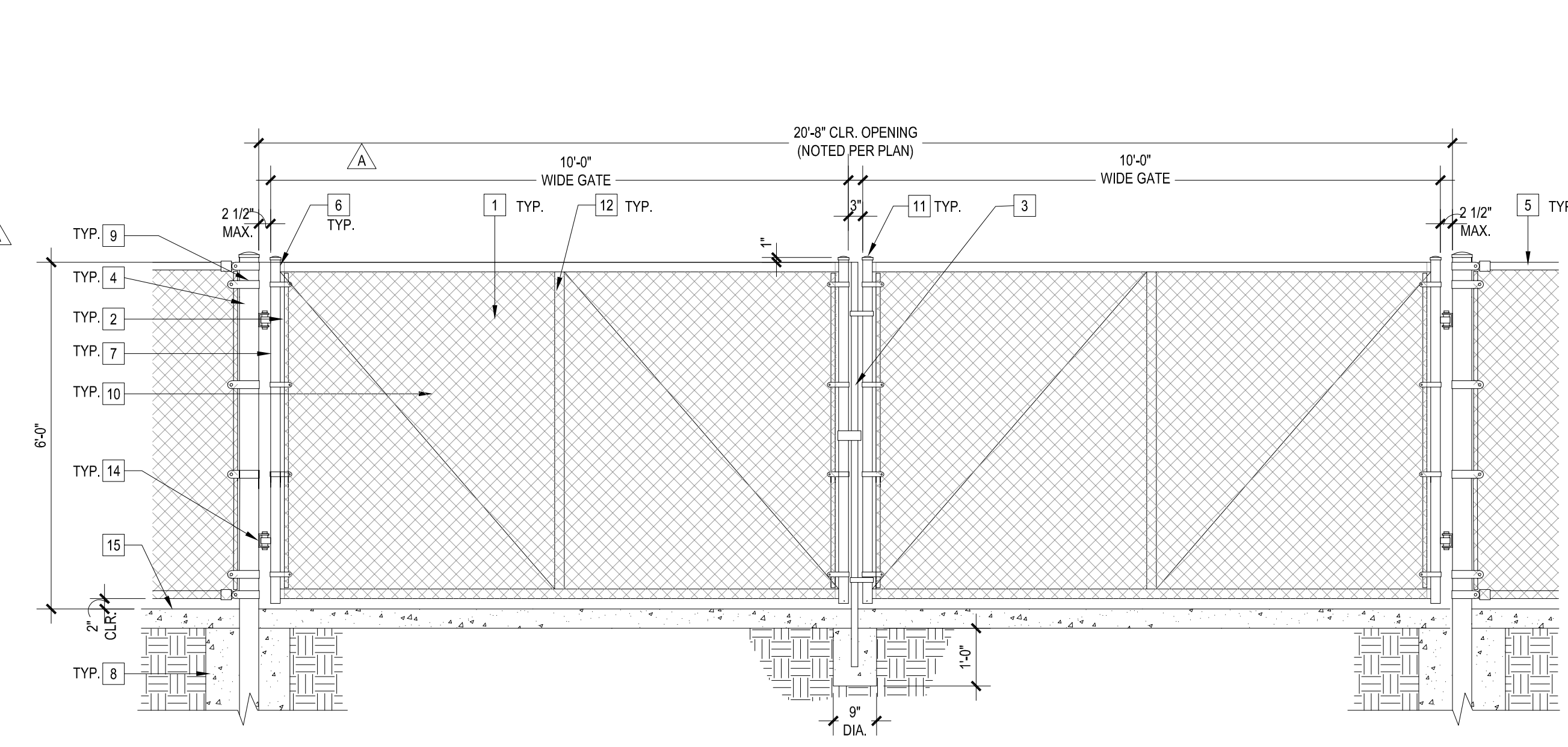
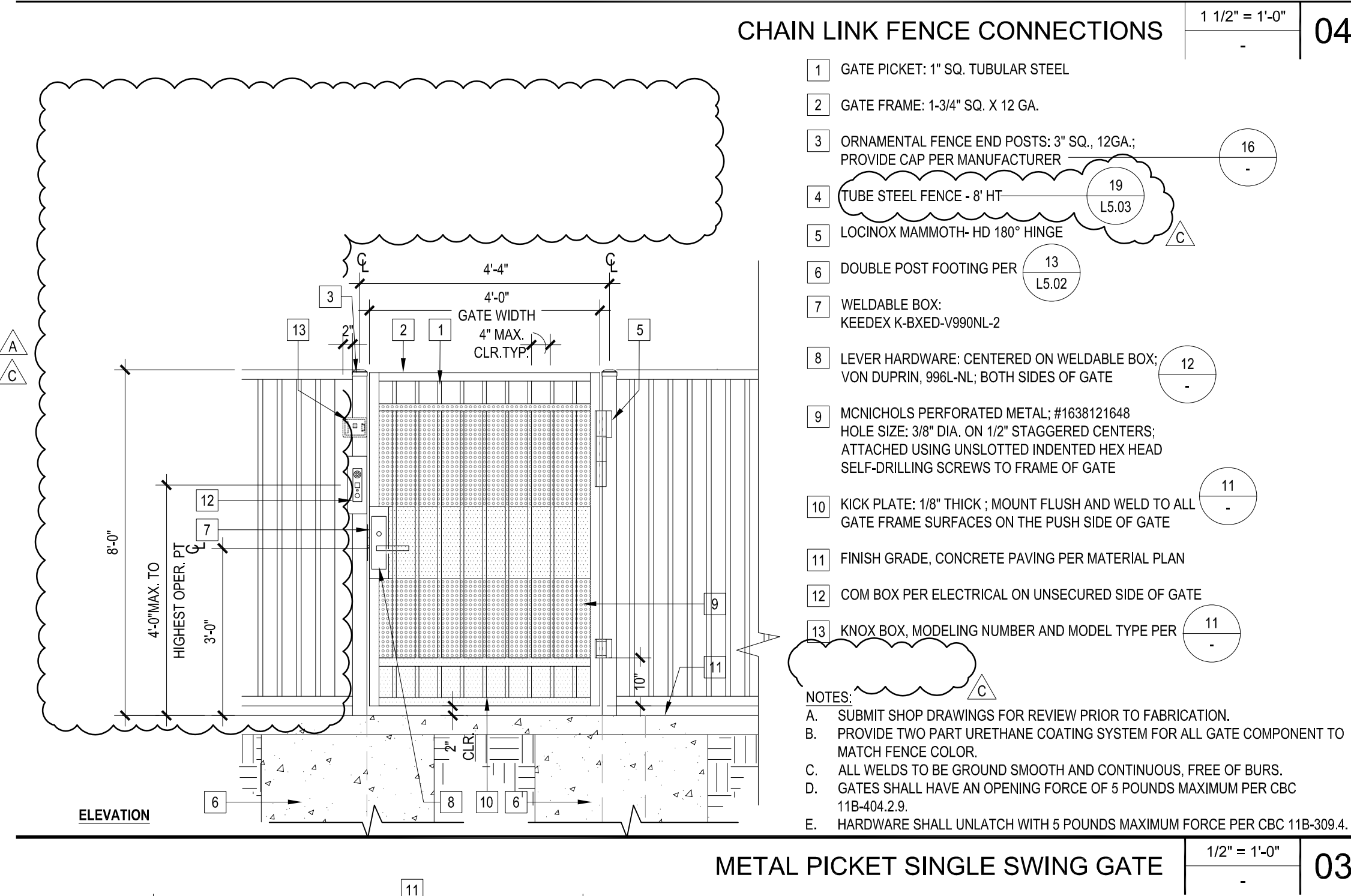
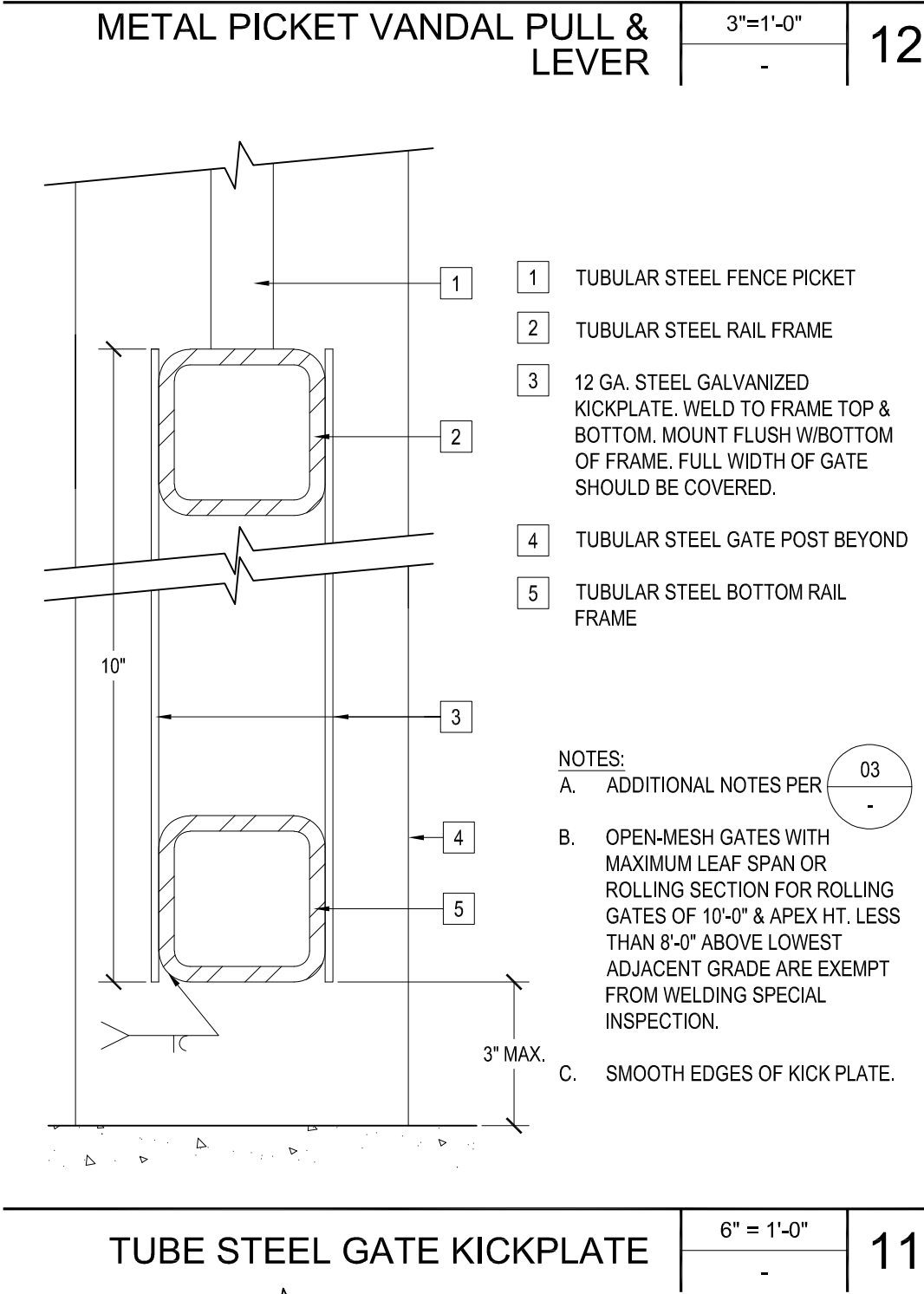
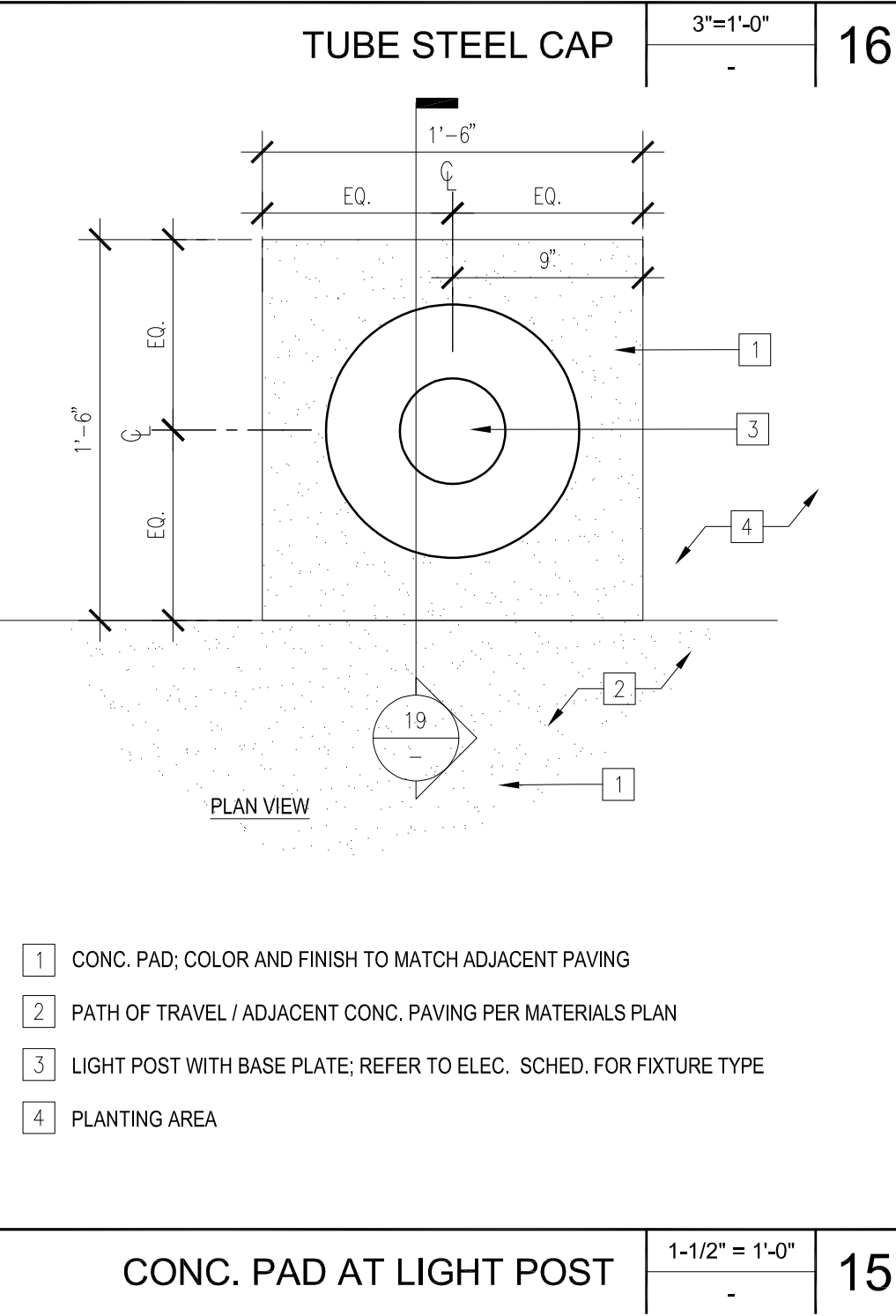
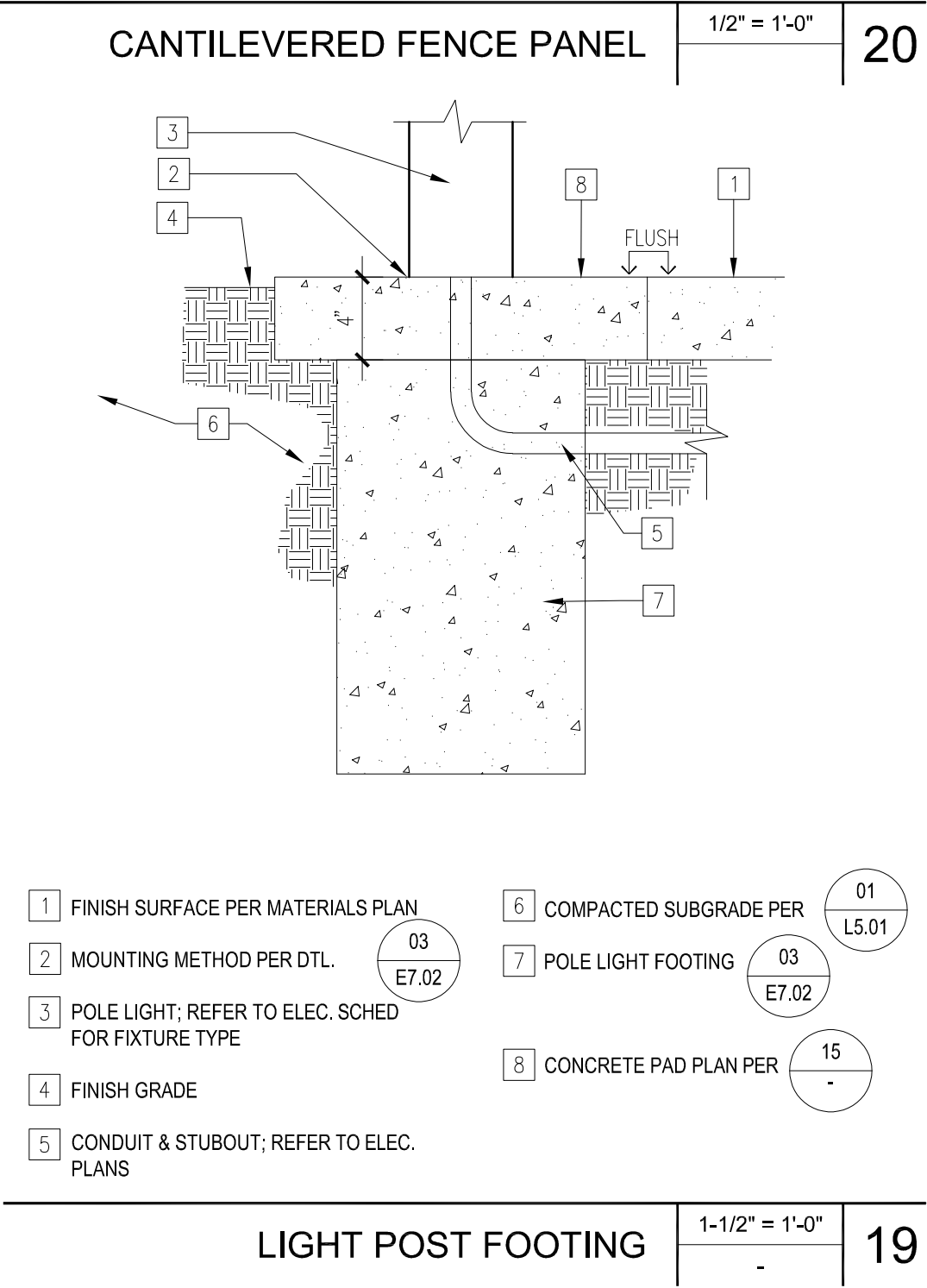
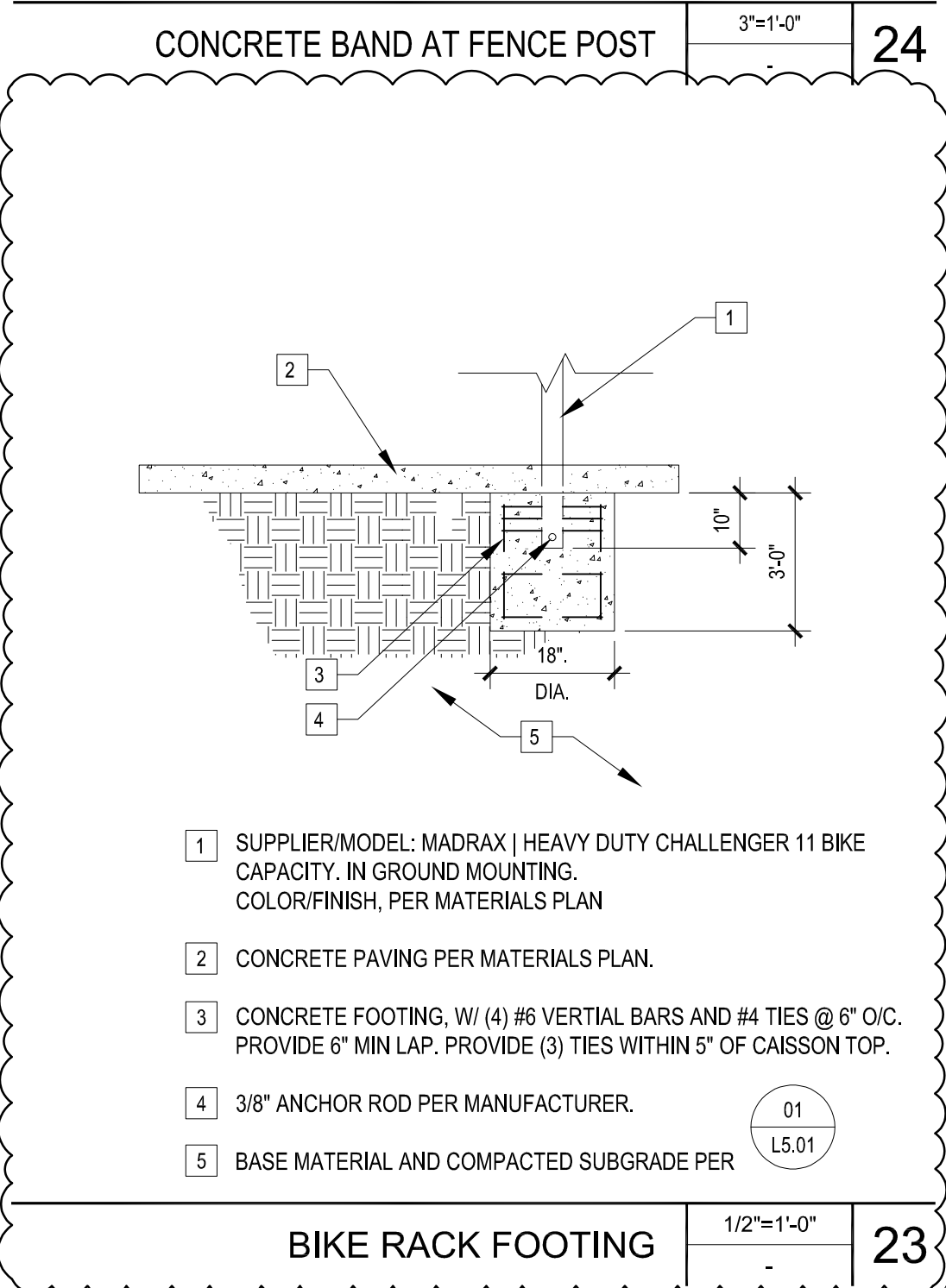
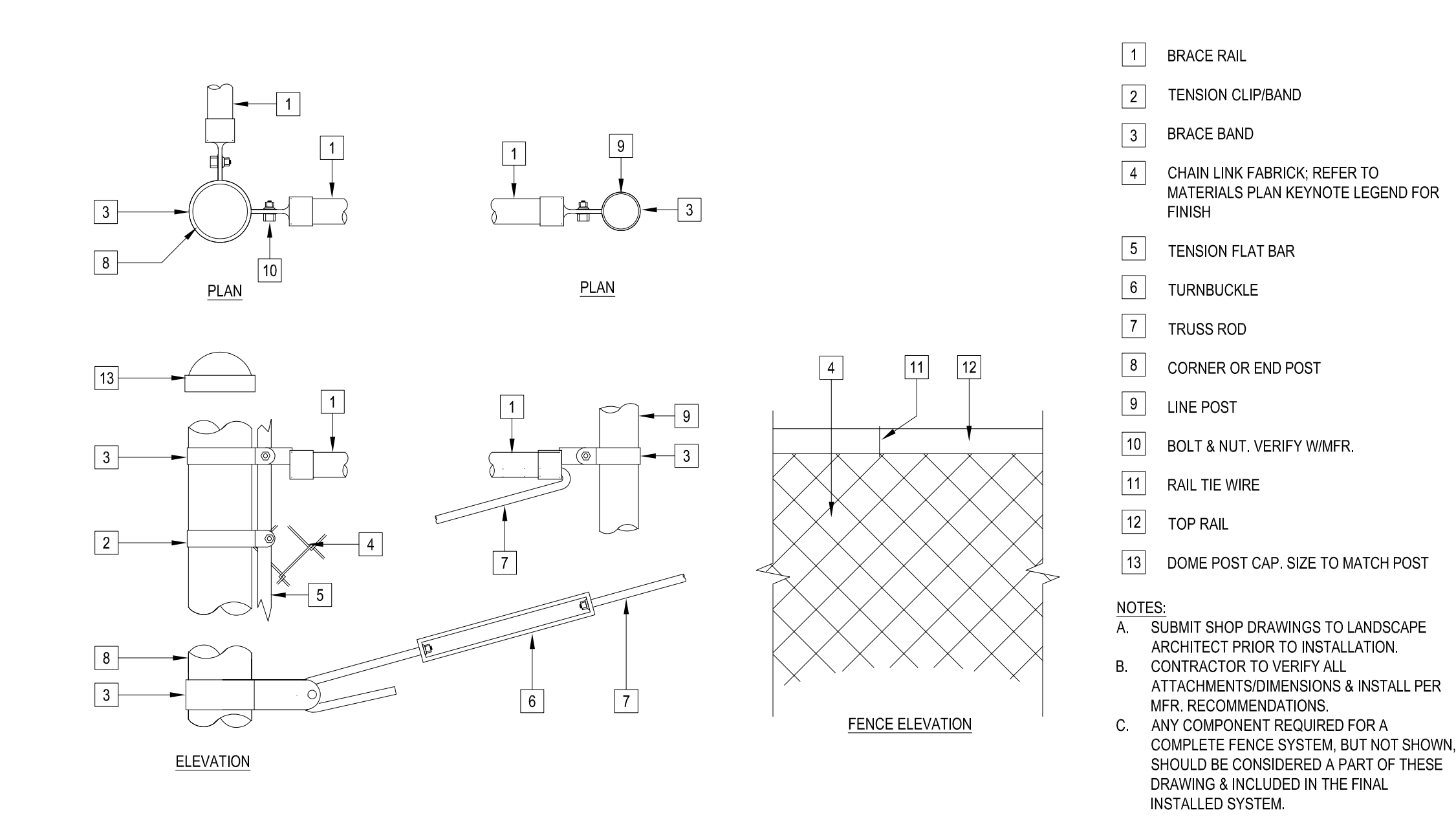
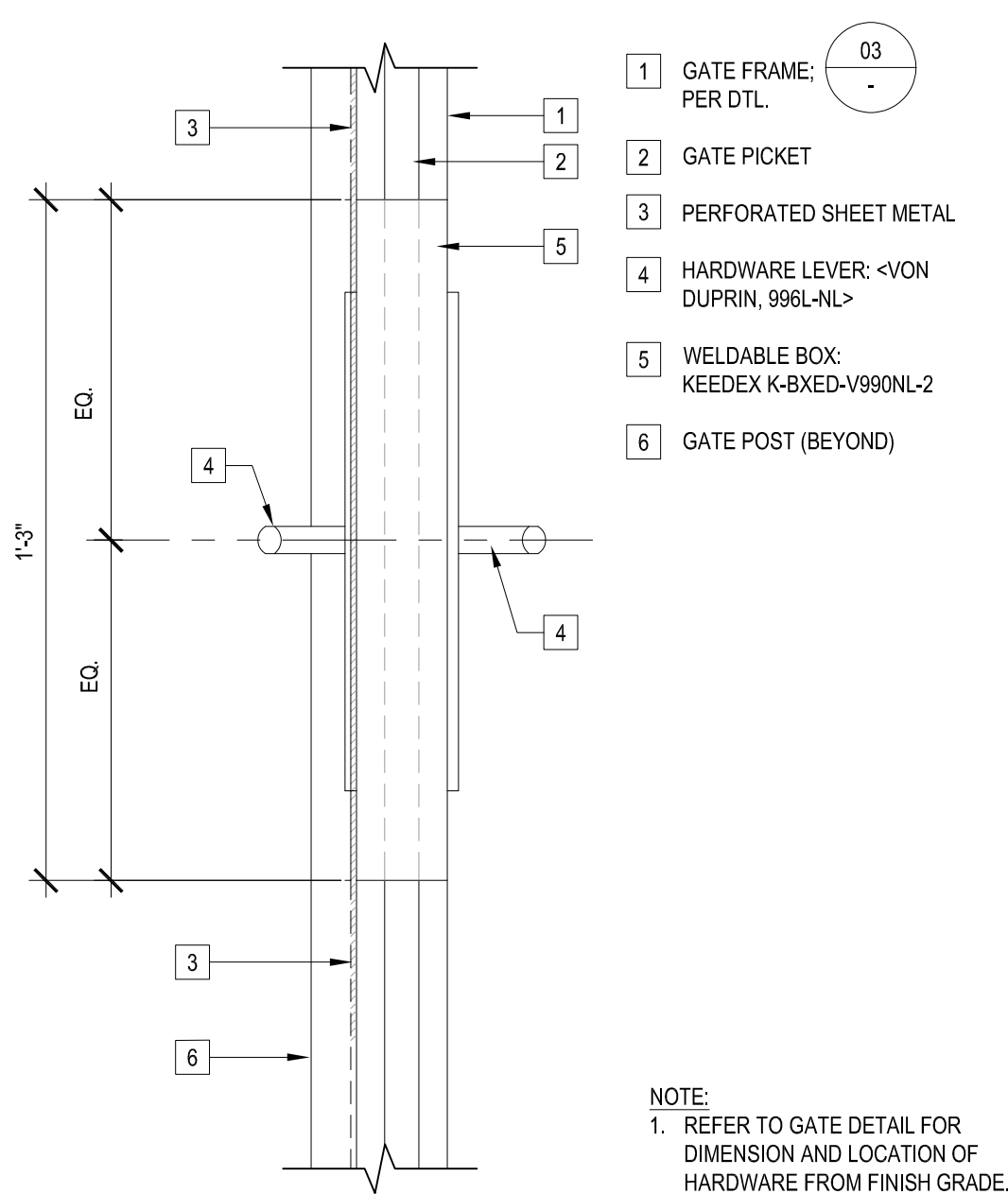
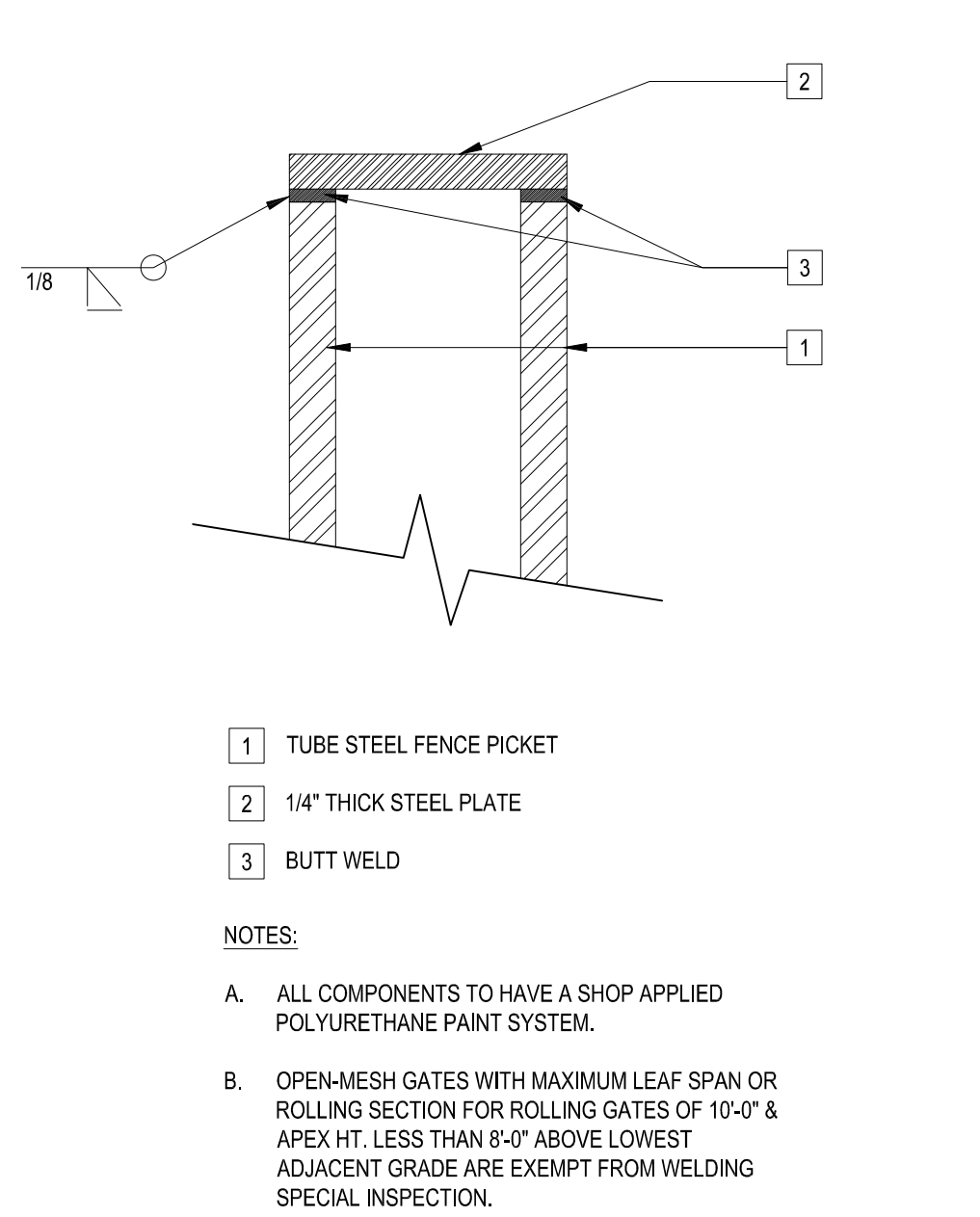
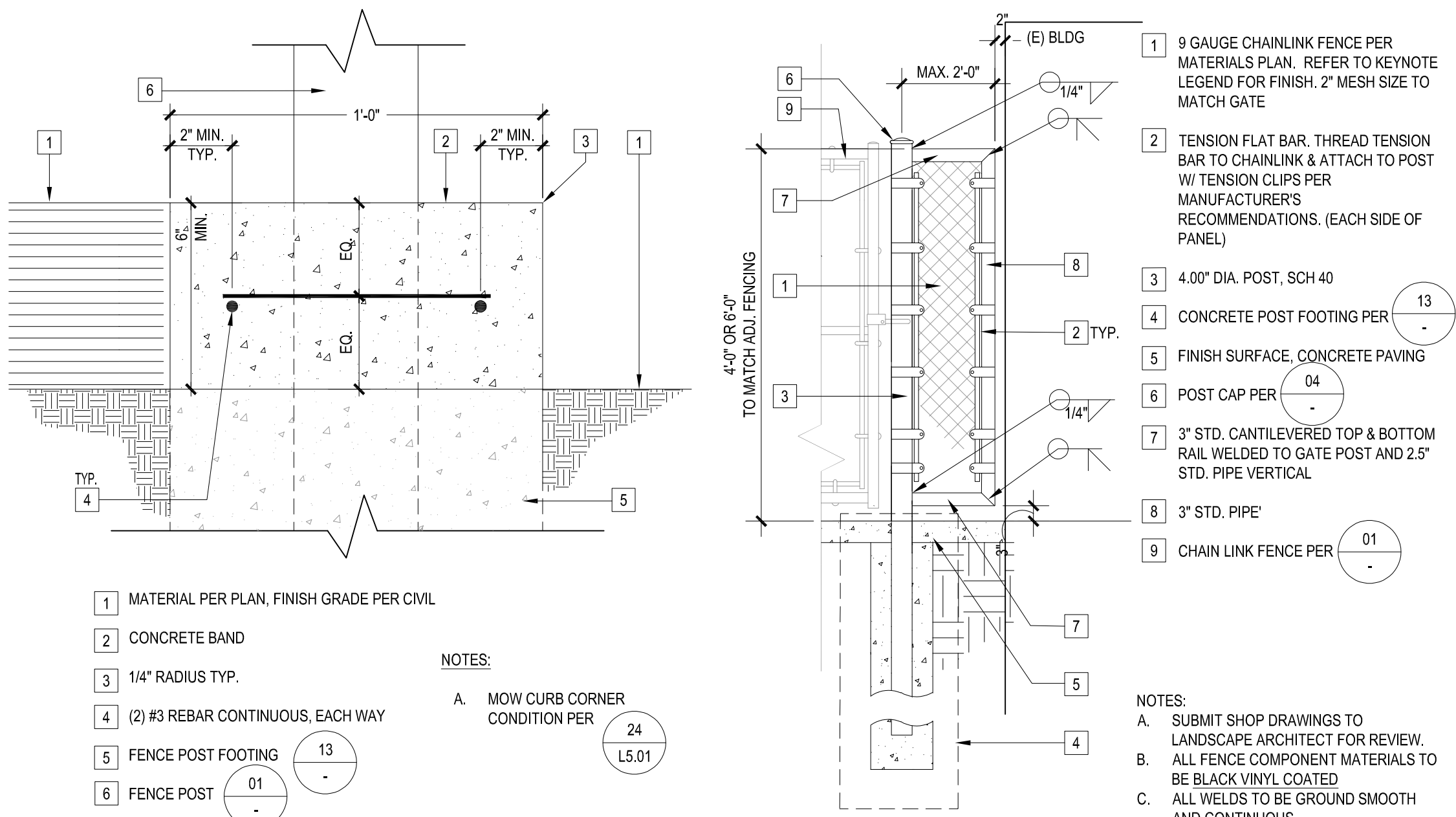
| Submit                     | Date       |
|----------------------------|------------|
| 100% SCHEMATIC DESIGN      | 09/12/2023 |
| 50% CONSTRUCTION DOCUMENTS | 03/28/2023 |
| DSA SUBMITTAL              | 04/19/2023 |
| DSA APPROVAL               | 08/07/2023 |

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|----------------|------------|
| Job Number     | 30899      |
| Date Published | 09/22/2025 |
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| Scale          | AS NOTED   |

CONSTRUCTION  
DETAILS

L5.01





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949-261-1001 Office

949-260-1190 Fax

LPA Design Studios.com

5301 California Avenue, Suite 100

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Developed for  
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

| Date                       | 07/12/2025 |
|----------------------------|------------|
| Revision                   | 09/22/2025 |
| 100% SCHEMATIC DESIGN      | 09/22/2025 |
| 50% CONSTRUCTION DOCUMENTS | 09/22/2025 |
| DSA SUBMITTAL              | 09/22/2025 |
| DSA APPROVAL               | 09/22/2025 |

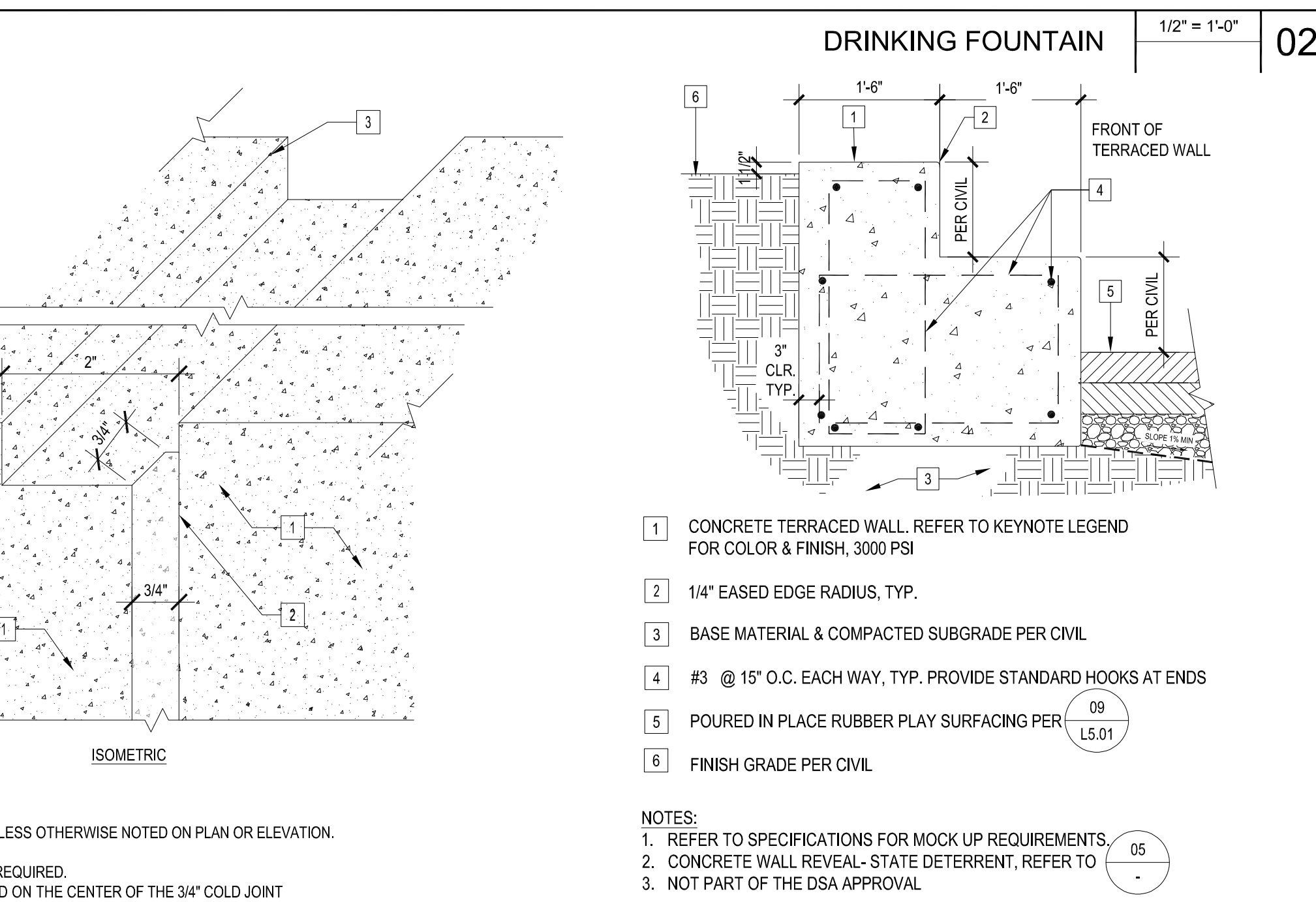
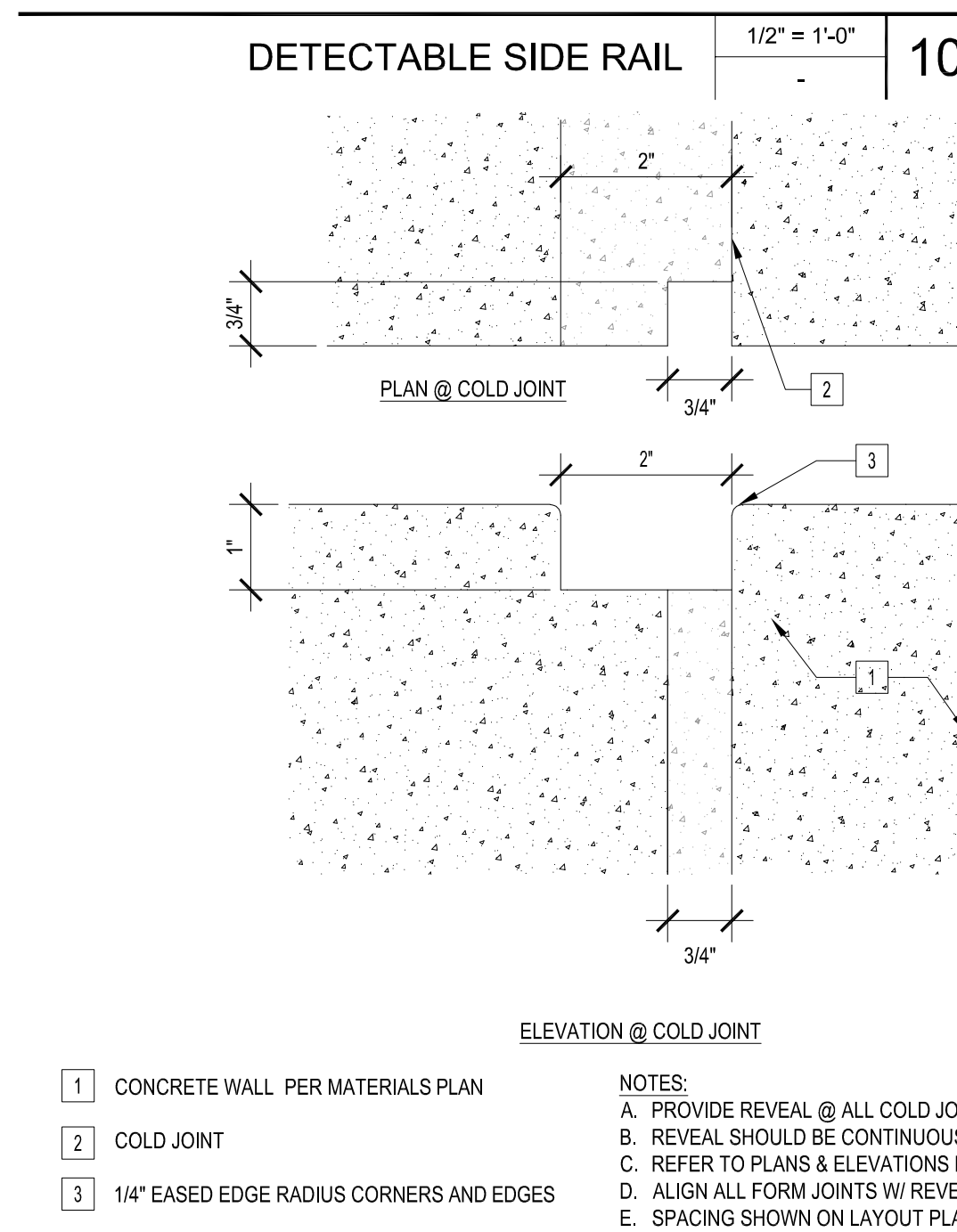
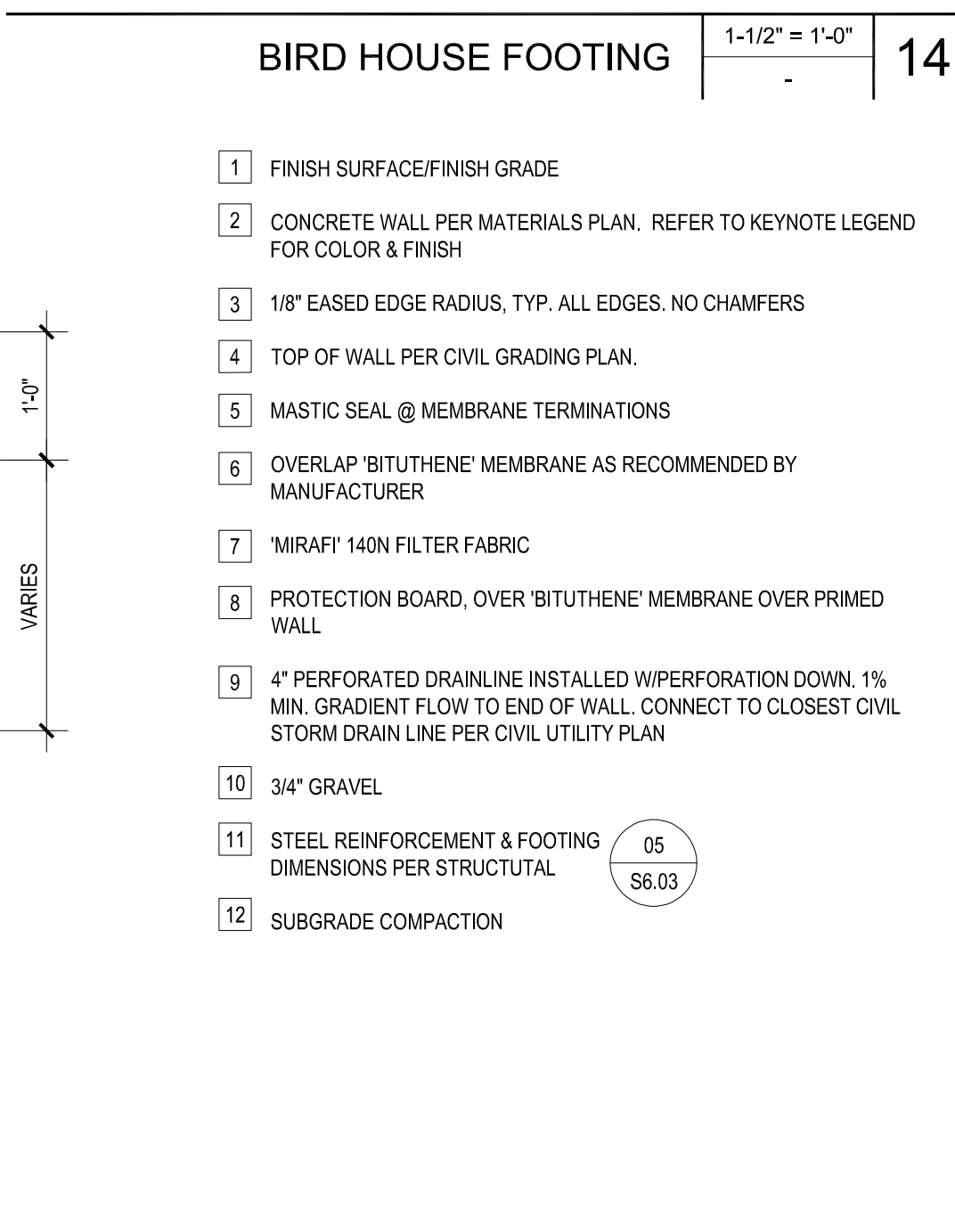
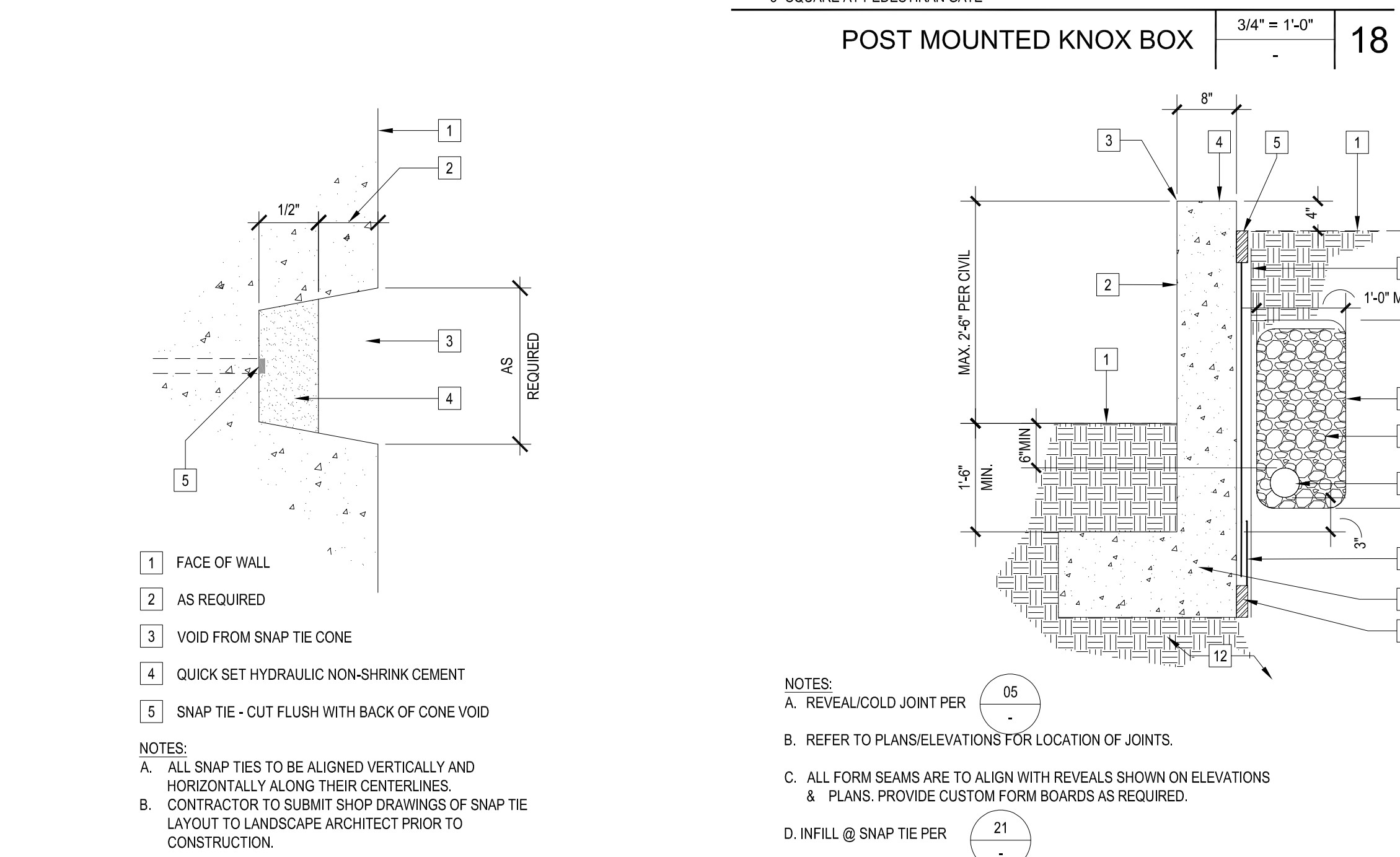
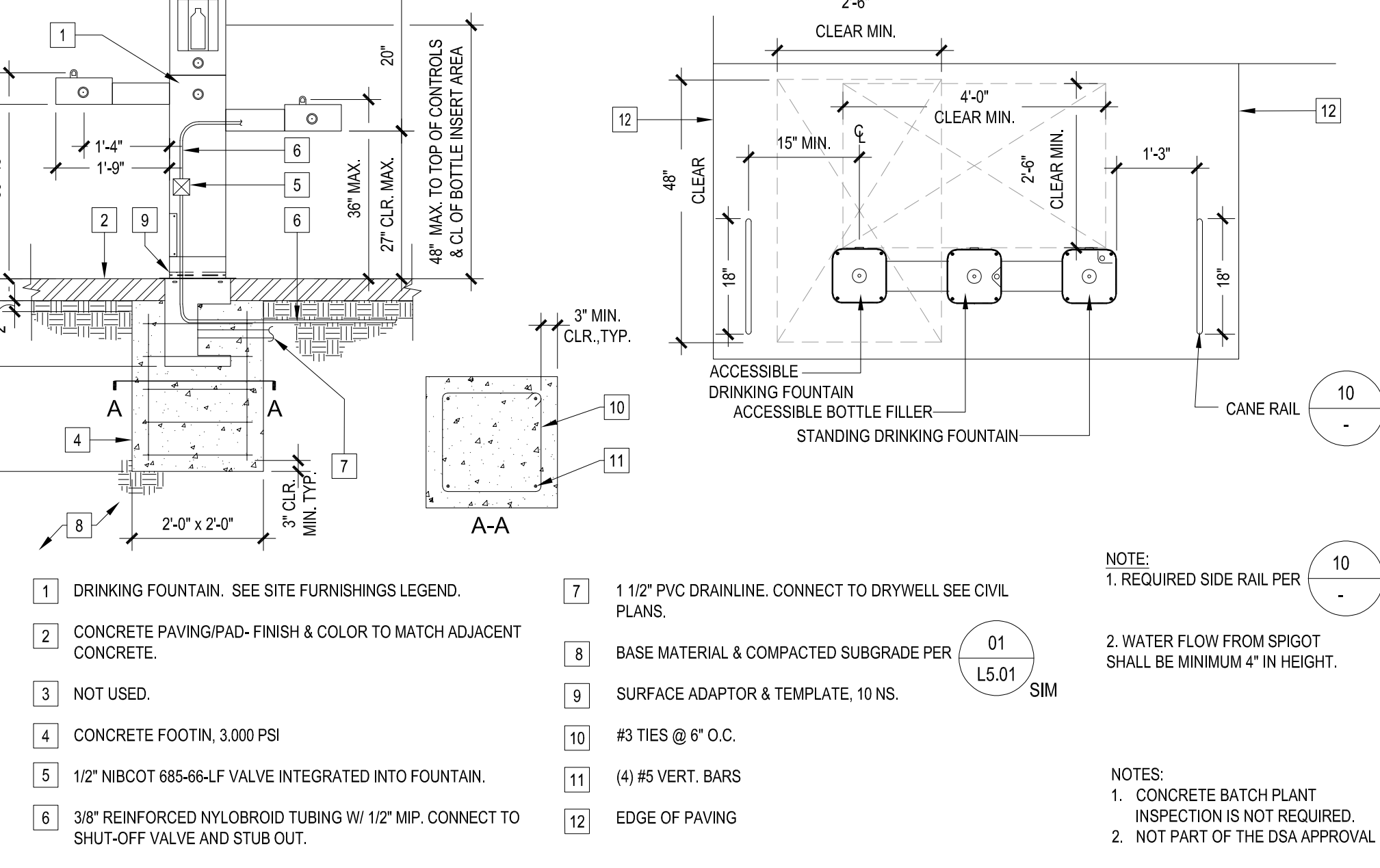
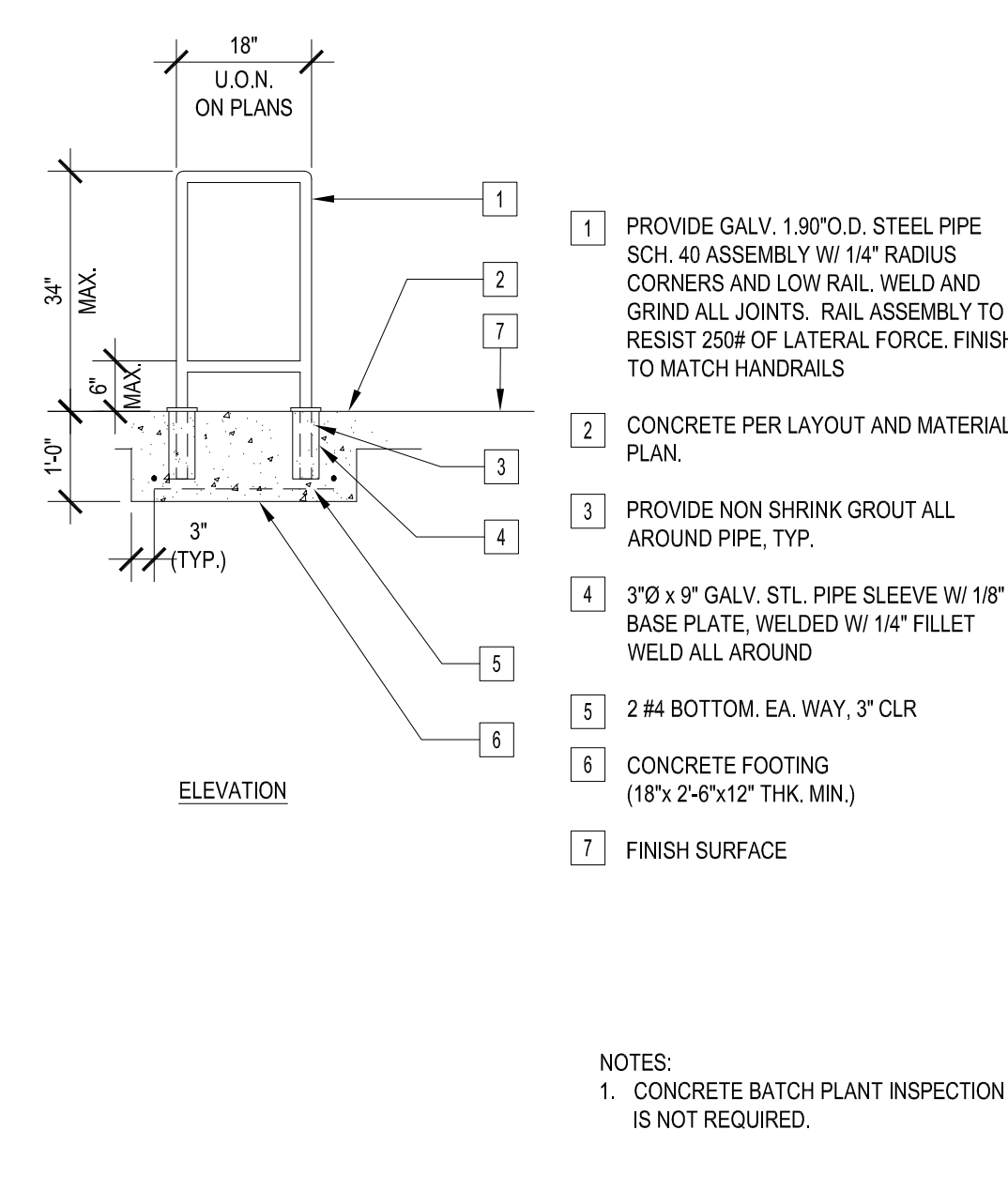
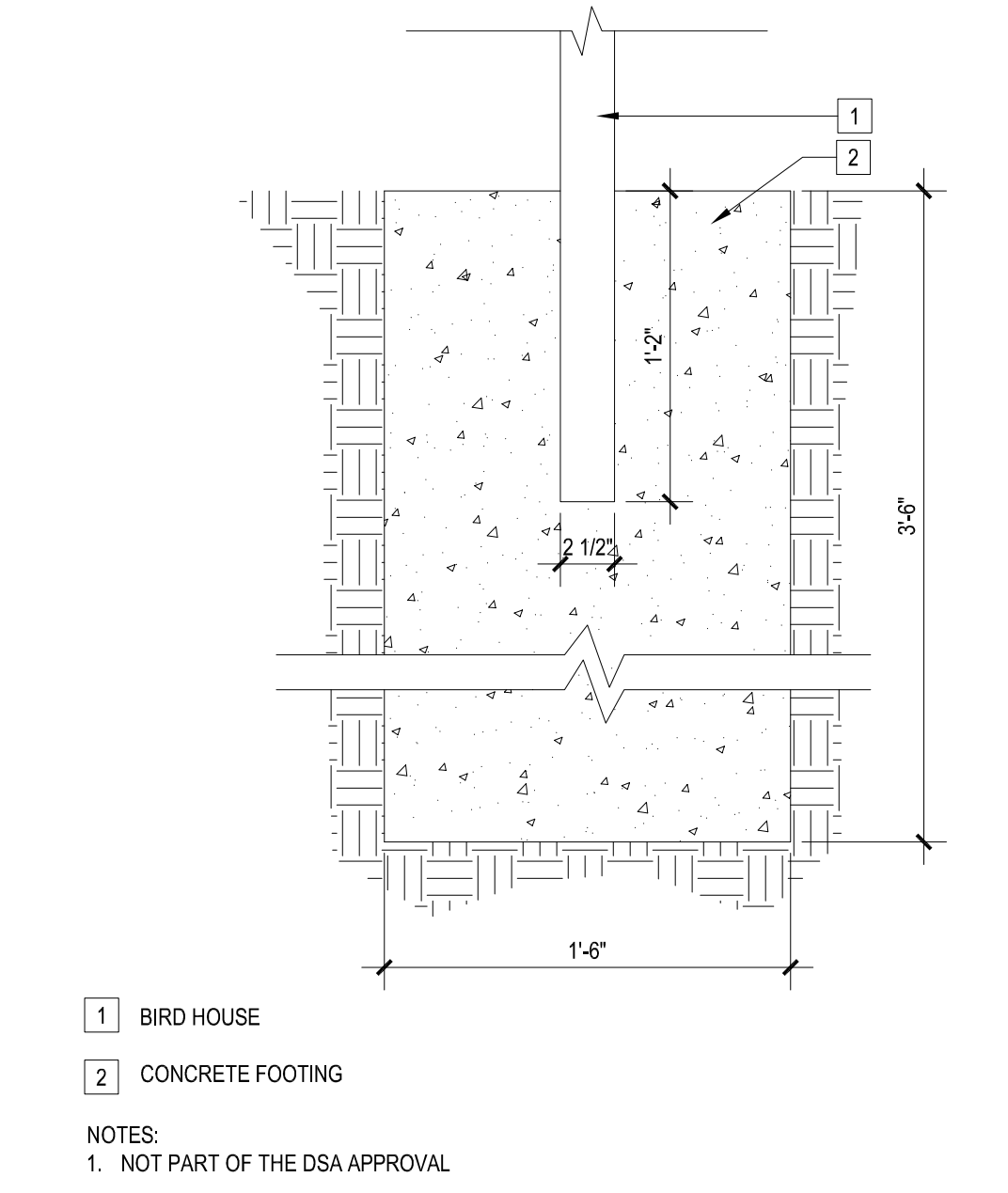
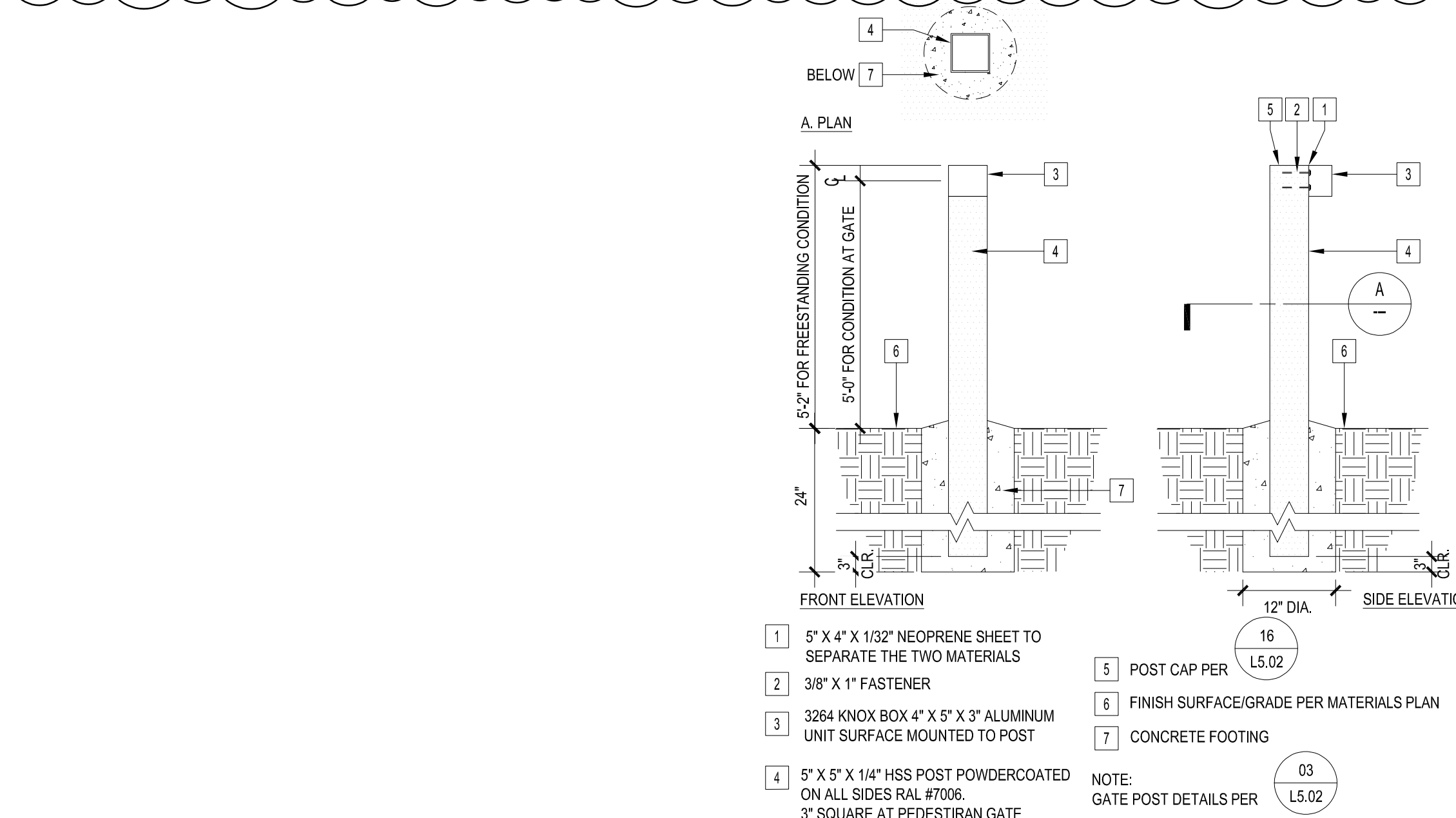
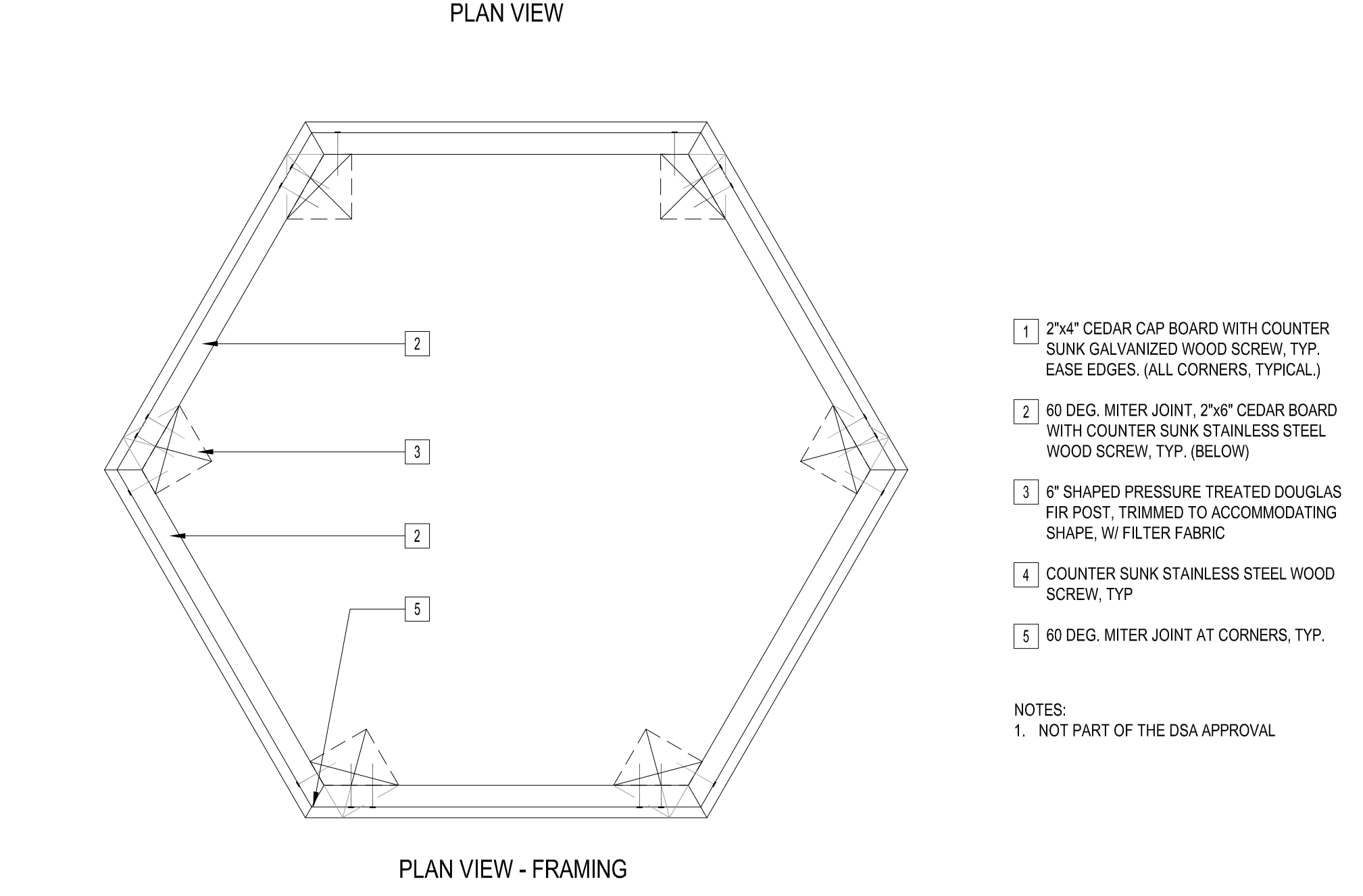
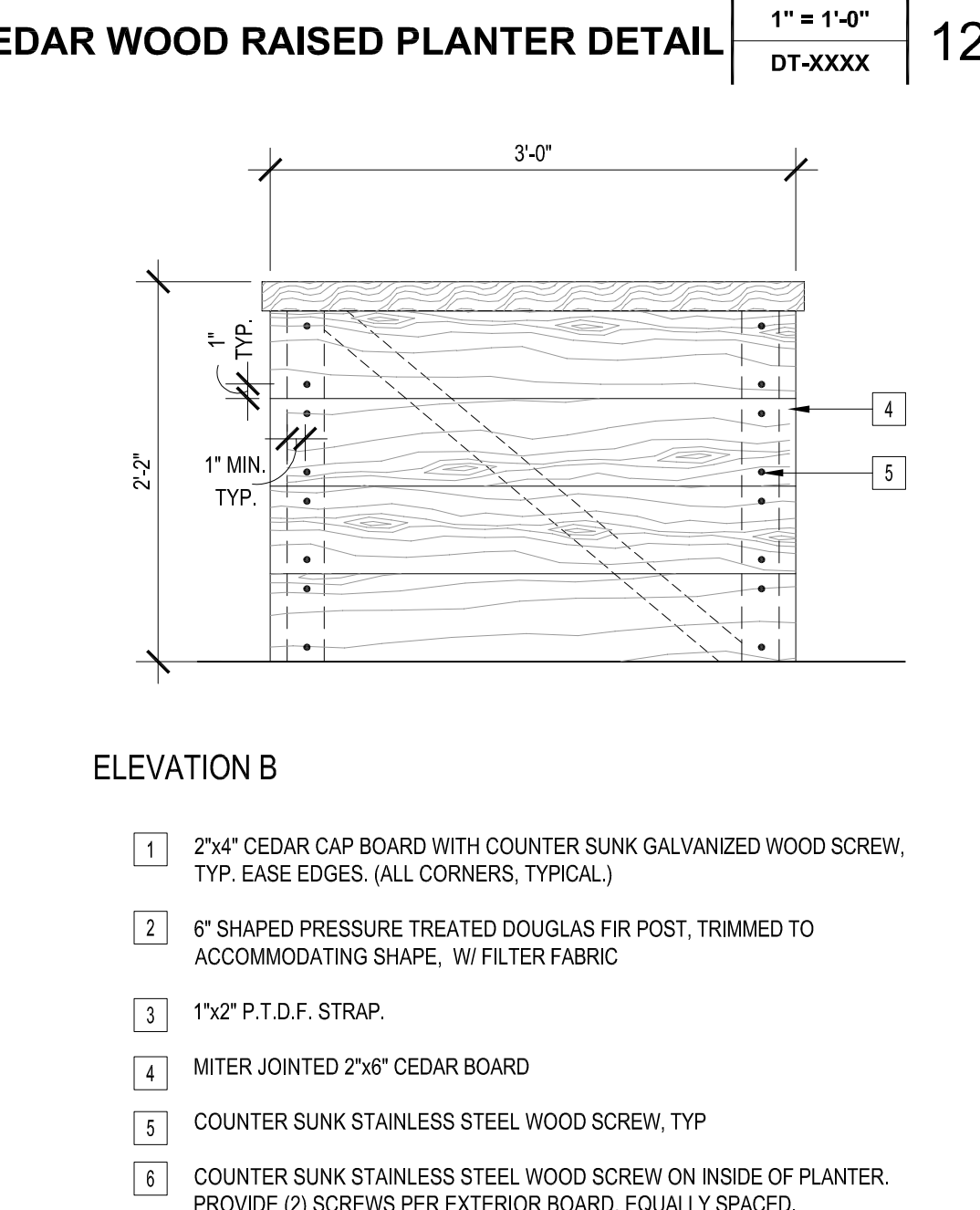
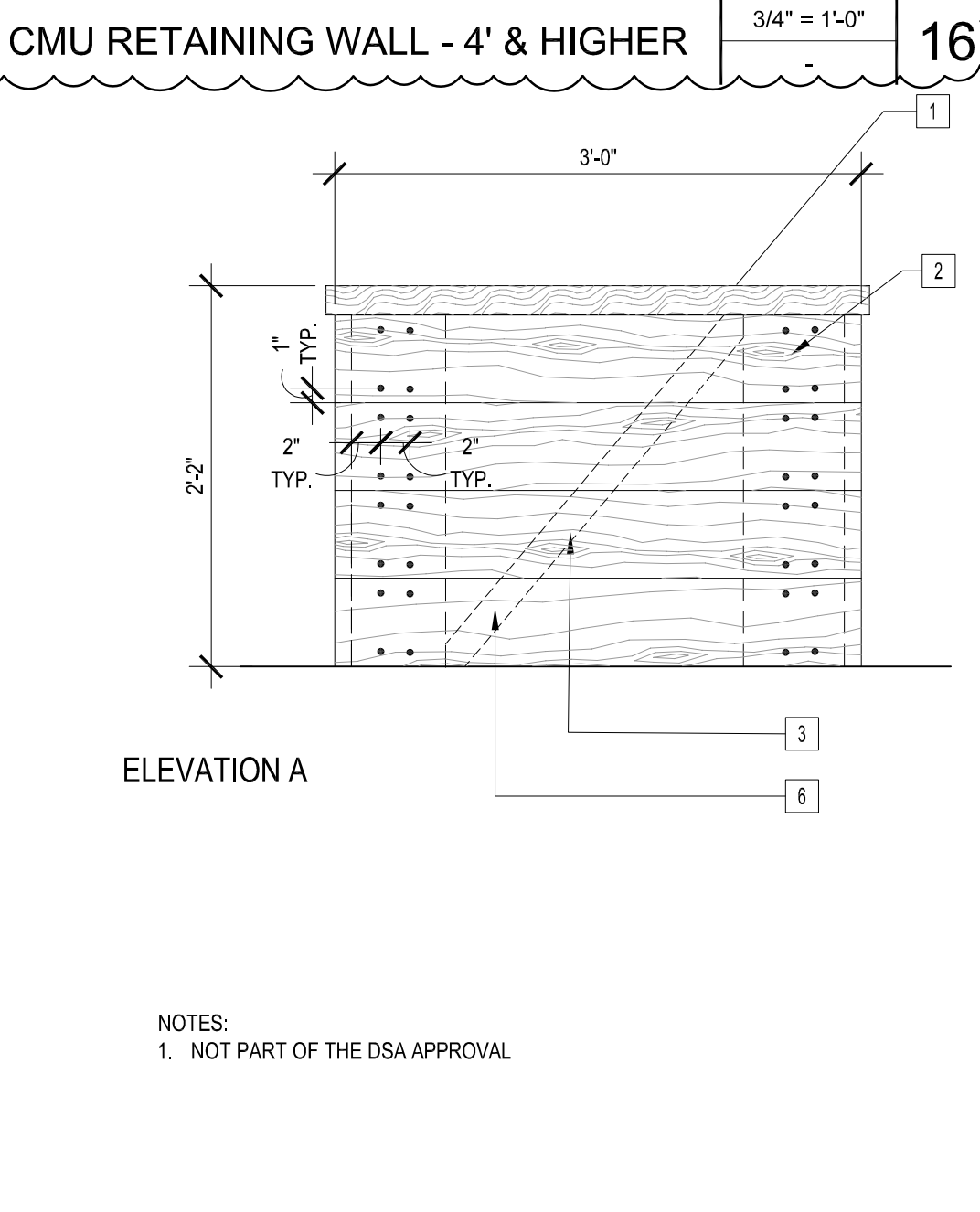
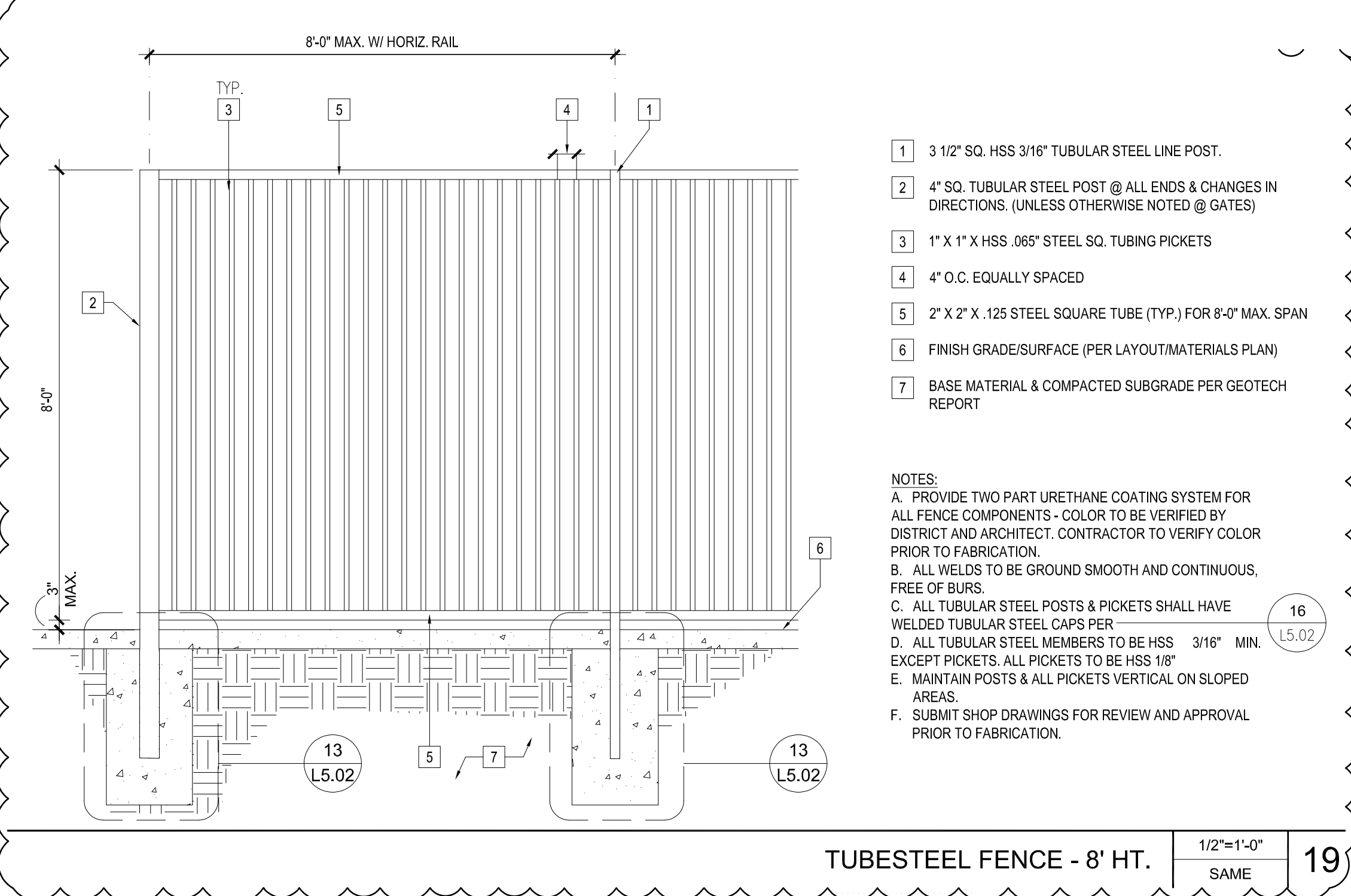
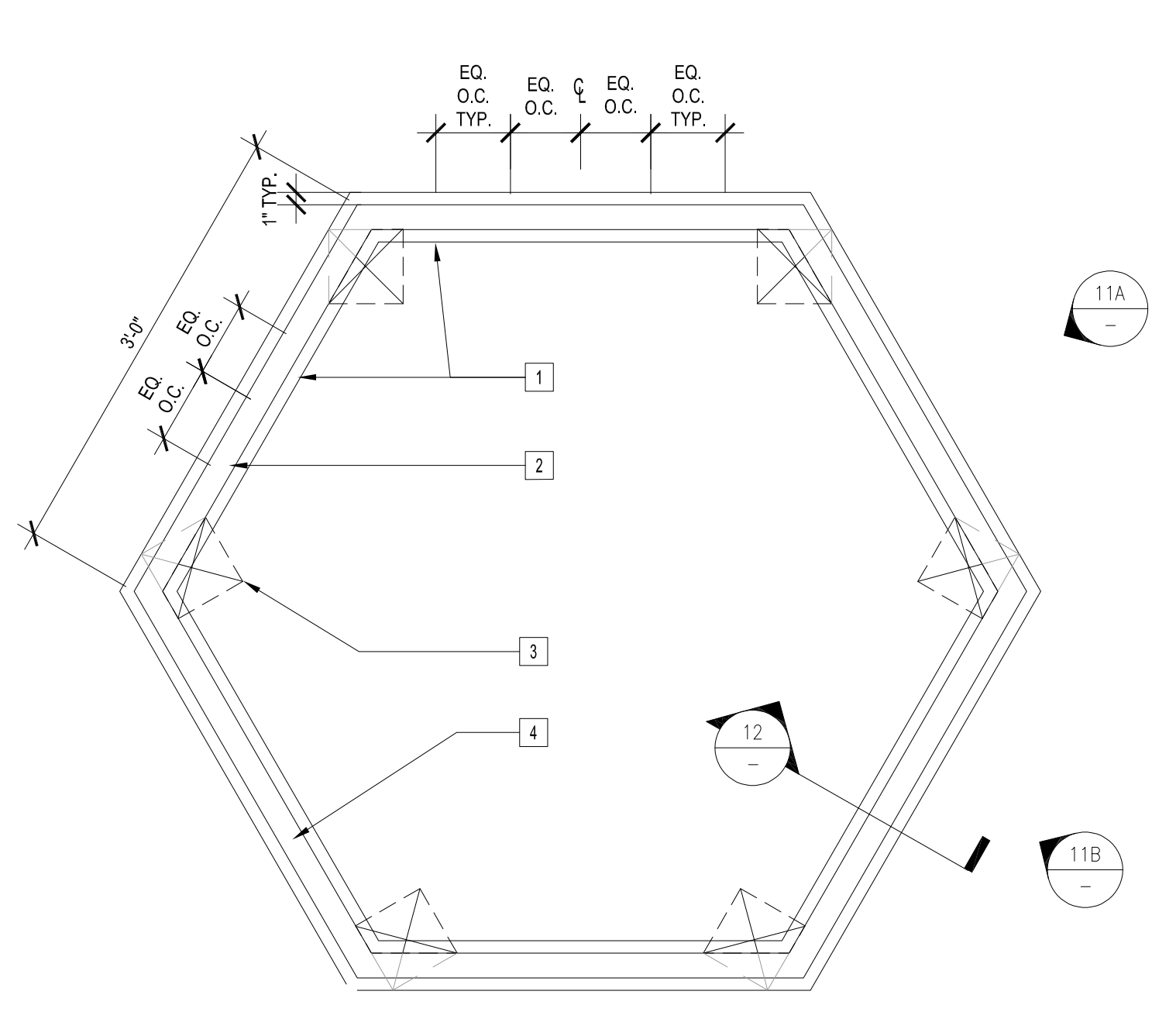
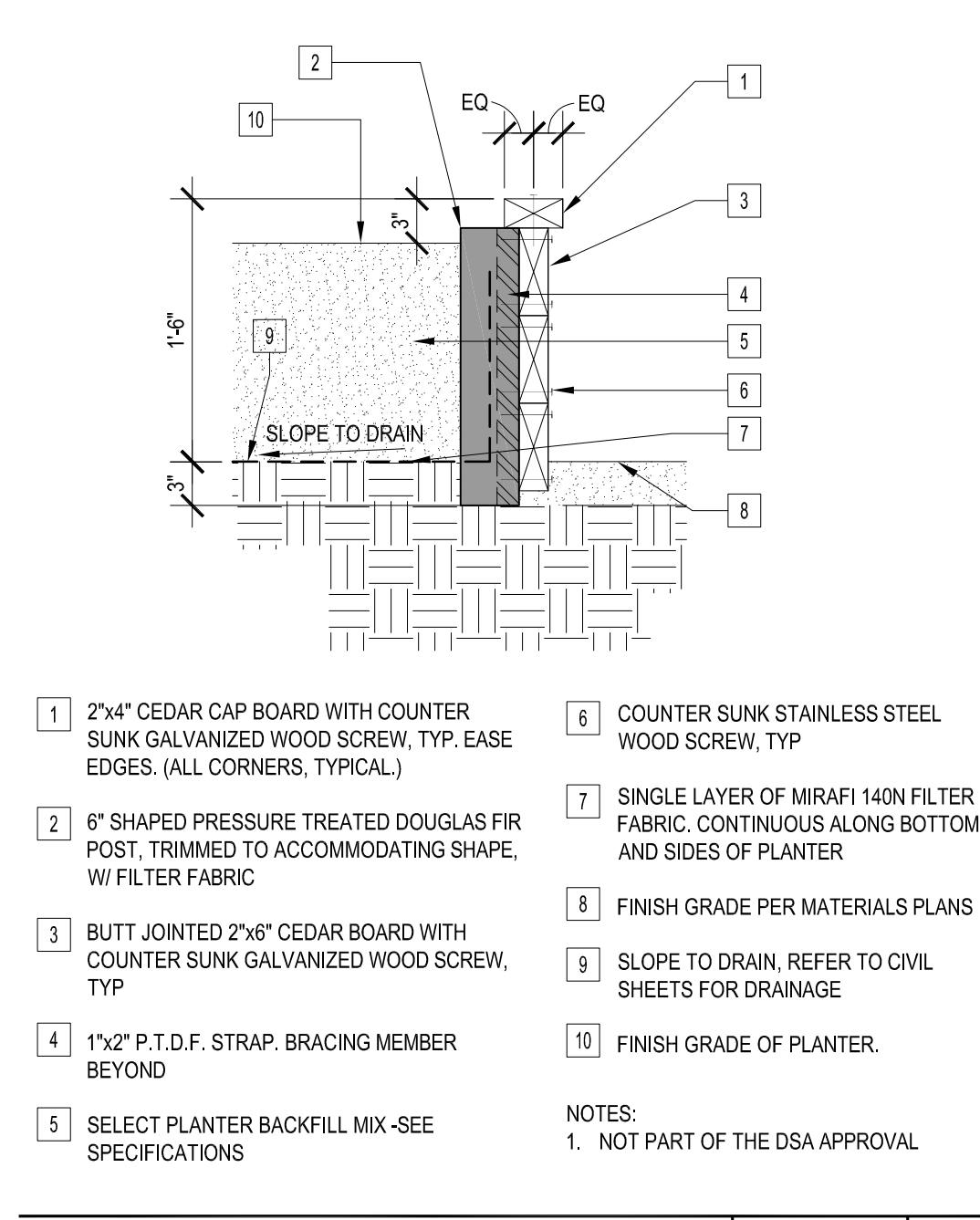
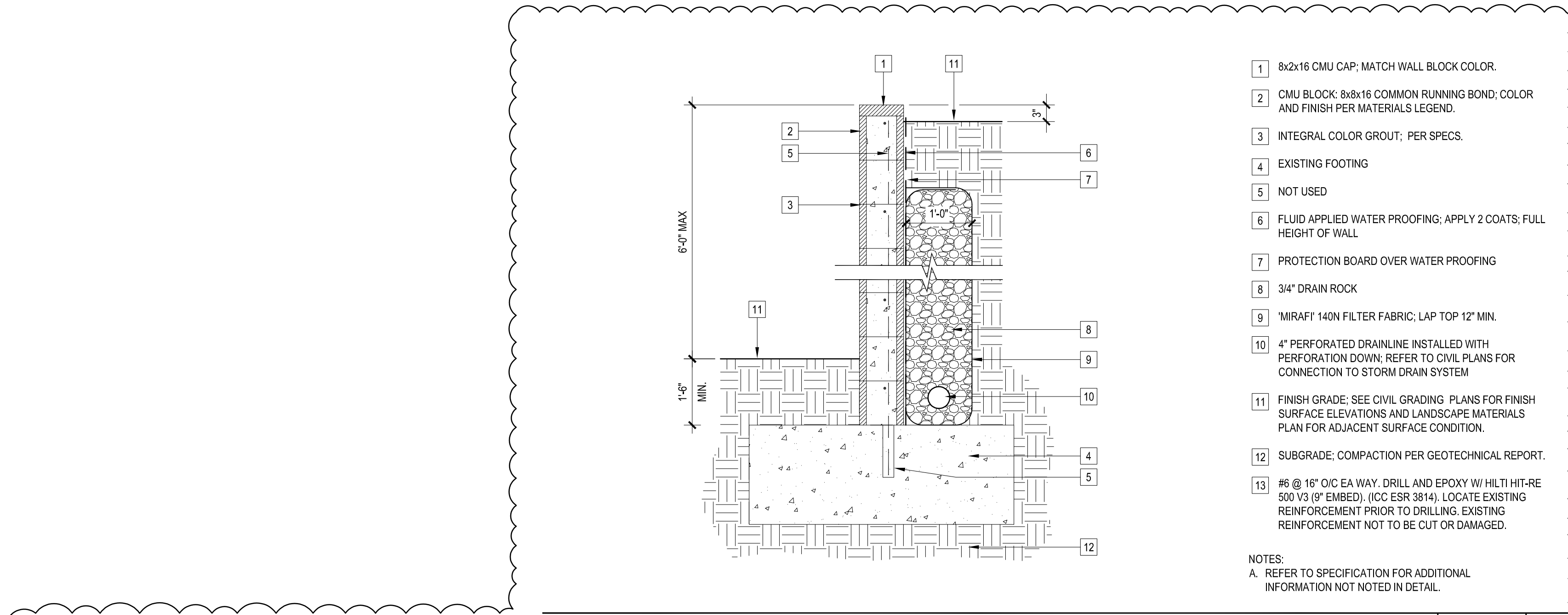
| Date                       | 09/12/2023 |
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| Submission                 | 09/22/2025 |
| 100% SCHEMATIC DESIGN      | 09/22/2025 |
| 50% CONSTRUCTION DOCUMENTS | 09/22/2025 |
| DSA SUBMITTAL              | 09/22/2025 |
| DSA APPROVAL               | 09/22/2025 |

|                |            |
|----------------|------------|
| Job Number     | 30899      |
| Date Published | 09/22/2025 |
| Checked By     | AG         |
| Scale          | AS NOTED   |

CONSTRUCTION  
DETAILS

L5.02



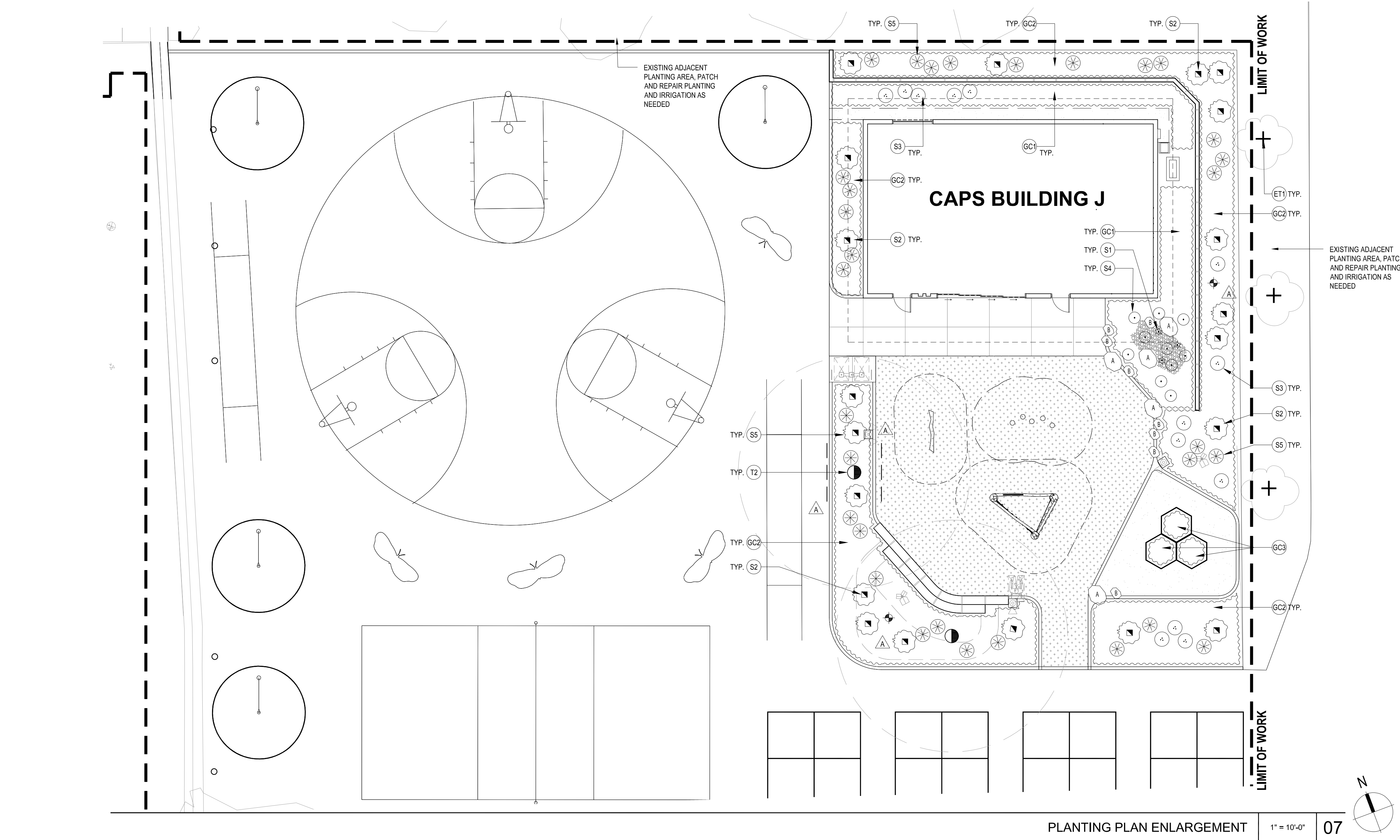


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|----------|---------------|
| Revision | C. ADDENDUM C |

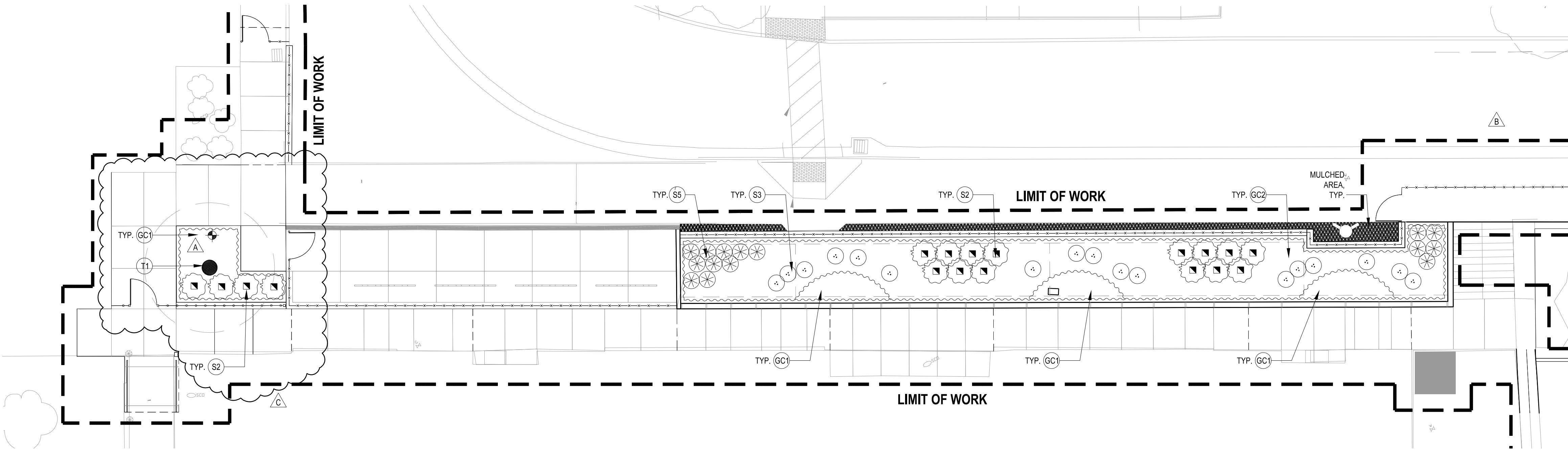
| Date   | 09/12/2023                 |
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| Submit | 100% SCHEMATIC DESIGN      |
| Date   | 03/28/2023                 |
| Submit | 50% CONSTRUCTION DOCUMENTS |
| Date   | 04/18/2023                 |
| Submit | DSA SUBMITTAL              |
| Date   | 08/07/2023                 |
| Submit | DSA APPROVAL               |

| Job Number     | 30899      |
|----------------|------------|
| Date Published | 09/22/2025 |
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| Scale          | AS NOTED   |





PLANTING PLAN ENLARGEMENT 1" = 10'-0" 07



PLANTING PLAN ENLARGEMENT 1" = 10'-0" 05

PLANTING LEGEND

| TREE LIST |             | (NCN) - NO COMMON NAME  | (*) - UNLESS NOTED ON PLAN |
|-----------|-------------|---|----------------------------|
| REF.      | QTY.        | BOTANICAL NAME/<br>COMMON NAME                                  | SIZE/<br>SPACING           |
| T1        | 01          | LAGERSTROEMIA INDICA 'MUSKOGEE' 48" BOX/<br>CALIFORNIA SYCAMORE | PER PLAN                   |
| T2        | 02          | PLATANUS RACEMOSA/<br>CALIFORNIA SYCAMORE                       | 48" BOX/<br>PER PLAN       |
| ET1       | PER<br>PLAN | EXISTING TREE TO REMAIN<br>PROTECT IN PLACE                     | 10'<br>L7.02               |

SHRUBS

| REF. | QTY.        | SYM. | BOTANICAL NAME/<br>COMMON NAME                     | SIZE/<br>SPACING   | COMMENTS/<br>DETAIL |
|------|-------------|------|--|--------------------|---------------------|
| S1   | AS<br>SHOWN | ☆    | CHONDROPETALUM TECTORUM<br>CAPE RUSH               | 5 GAL/<br>AS SHOWN | 03/<br>L7.02        |
| S2   | AS<br>SHOWN | ⊙    | CISTUS x PURPUREUS<br>PURPLE ROCKROSE              | 5 GAL/<br>AS SHOWN | 03/<br>L7.02        |
| S3   | AS<br>SHOWN | ⊙    | ENCELIA CALIFORNIA<br>BUSH SUNFLOWER               | 5 GAL/<br>AS SHOWN | 03/<br>L7.02        |
| S4   | AS<br>SHOWN | ⊙    | JUNCUS PATENS 'ELK BLUE'<br>ELK BLUE CAPE RUSH     | 5 GAL/<br>AS SHOWN | 03/<br>L7.02        |
| S5   | AS<br>SHOWN | ⊕    | SALVIA 'ALLEN CHICKERING'<br>ALLEN CHICKERING SAGE | 5 GAL/<br>AS SHOWN | 03/<br>L7.02        |

GROUND COVER

| REF. | QTY.       | SYM. | BOTANICAL NAME/<br>COMMON NAME  | SIZE/<br>SPACING | COMMENTS/<br>DETAIL |
|------|------------|------|---------------------------------|------------------|---------------------|
| GC1  | AS<br>REQD | ⬡    | CAREX DIVULSA<br>BERKELEY SEDGE | 5 GAL/<br>24" OC | 03.09/<br>L7.02     |
| GC2  | AS<br>REQD | ⬡    | FESTUCA MAIREI<br>ATLAS FESCUE  | 5 GAL/<br>30" OC | 03.09/<br>L7.02     |
| GC3  | AS<br>REQD | ⬡    | SALVIA ROSMARINUS<br>ROSEMARY   | 1 GAL/<br>24" OC | 03.09/<br>L7.02     |

MISCELLANEOUS SYMBOLS

|     |                                 |              |
|-----|---------------------------------|--------------|
| --- | LINEAR ROOT BARRIER             | 04/<br>L7.02 |
| ⬡   | MULCHED AREA                    | PER<br>SPECS |
| ⊕   | SOIL SAMPLE LOCATION (03 TOTAL) |              |

- NOTES:
- CONTRACTOR IS TO VERIFY ALL PROPERTY LINES/LIMITS OF WORK AND ADJUST ALL PLANTING AND IRRIGATION ACCORDINGLY. NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
  - CONTRACTOR MUST REPLACE ANY PLANT MATERIAL DAMAGED WITH 'LIKE' KIND, ON ANY ADJACENT PROPERTIES DUE TO GRADING OR CONSTRUCTION TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
  - SEE PLANTING NOTES ON SHEET L0.01
  - THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE EXISTING IRRIGATION, GRADING, AND PLANTING OF THIS PROPERTY AND ADJACENT PROPERTIES. ANY DAMAGE OR ADJUSTMENTS REQUIRED INCLUDING REPLACING OR RELOCATING IRRIGATION LINES, HEADS, VALVES, WIRES OR ANY UTILITY THAT OCCURS ON THE PARCEL DUE TO THE GRADING AND CONSTRUCTION OF THIS PROJECT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNER'S REP. MUST REVIEW ANY REQUIRED MODIFICATIONS TO THESE AREAS PRIOR TO COMMENCING WORK. THE CONTRACTOR MUST NOTIFY THE OWNER'S AUTHORIZED REP. OF THESE CONDITIONS OR ANY DISCREPANCIES PRIOR TO COMMENCING WORK. TYP. ENTIRE SITE.
  - PROTECT ALL (E) TREES ON SITE WITHIN L.O.W. & OUTSIDE L.O.W. CONTRACTOR TO REPLACE ANY (E) TREES AND PLANT MATERIAL DAMAGED DURING CONSTRUCTION.

NORTH VERDEMONT ES CAPS ADDITION

3555 W. MEYERS ROAD  
SAN BERNARDINO, CA 92407

Developed for  
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

| Revision | Date       |
|----------|------------|
| 1        | 07/11/2025 |
| 2        | 08/03/2025 |
| 3        | 09/22/2025 |

| Submital                   | Date       |
|----------------------------|------------|
| 100% SCHEMATIC DESIGN      | 02/11/2023 |
| 50% CONSTRUCTION DOCUMENTS | 03/28/2023 |
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|----------------|------------|
| Job Number     | 30899      |
| Date Published | 09/22/2025 |
| Checked By     | AG         |
| Scale          | AS NOTED   |

PLANTING  
PLAN

L7.01





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LANDSCAPE ARCHITECTURE PLANNING

949-261-1001 Office

949-260-1190 Fax

LPADesignStudios.com

5301 California Avenue, Suite 100  
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Developed for  
SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT

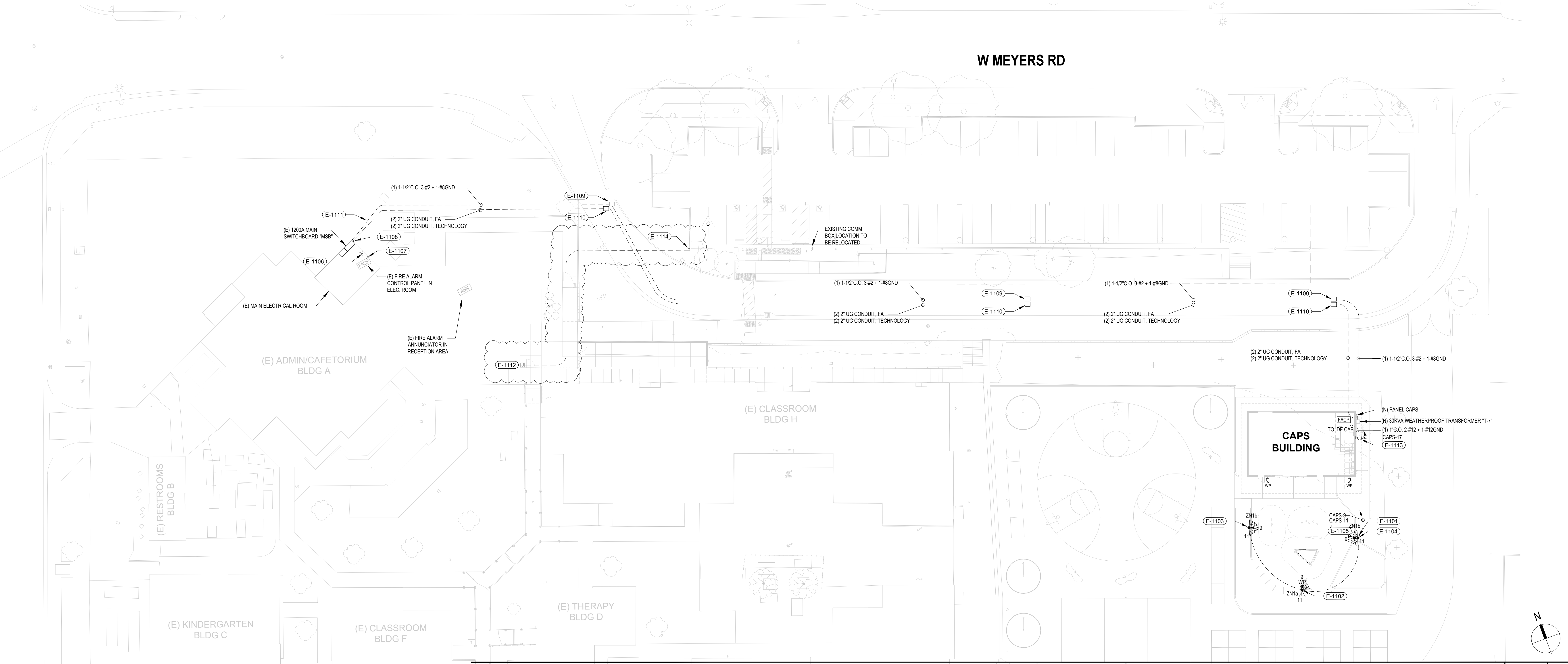
| Revision   | Date       |
|------------|------------|
| ADDENDUM A | 07/31/2025 |
| ADDENDUM C | 08/22/2025 |

| Submittal             | Date       |
|-----------------------|------------|
| 100% SCHEMATIC DESIGN | 02/16/2023 |
| DSA SUBMITTAL         | 04/15/2023 |
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|                |            |
|----------------|------------|
| Job Number     | 30899      |
| Date Published | 09/07/2023 |
| Checked By     | KG         |
| Scale          | SCALE      |

ELECTRICAL  
AND LIGHTING  
SITE PLAN

E1.10



ELECTRICAL SITE PLAN 1" = 20'-0" 02

KEYNOTES

|        |  |        |  |
|--------|--|--------|--|
| E-1101 | REFER TO LANDSCAPE DRAWINGS FOR SITE FIXTURE LOCATIONS ZN1a AND ZN1b, AND REFER TO DETAIL 03/E7.02 FOR POLE FOOTING DETAIL (TYP).  | E-1113 | PROVIDE 120V POWER CONNECTION TO IRRIGATION CONTROLLER FROM "CAPS" PANEL   |
| E-1102 | ZN1a TO BE ORIENTED SO THAT "LEFT" POLE-TOP HEAD, DENOTED WITH THE LETTER "L", IS ALIGNED PARALLEL TO BUILDING GRIDLINE 1 AS SHOWN ON PLAN. BOTH POLE-TOP HEADS TO BE AIMED AND LOCKED AT 30 DEGREES FROM NADIR.   | E-1114 | SPLICE EXISTING LOW VOLTAGE CONDUIT AND CIRCUIT AND EXTEND TO NEW COMM BOX LOCATION. FIELD VERIFY EXACT SPLICE LOCATION. |
| E-1103 | THIS ZN1b TO BE ORIENTED SO THAT CENTERLINE BETWEEN "LEFT" AND "RIGHT" POLE-TOP HEADS TO BE ALIGNED PARALLEL TO BUILDING GRIDLINE C, WITH "R" HEAD TO PLAN-NORTH, AND "L" HEAD TO PLAN-SOUTH AS SHOWN ON PLAN. BOTH POLE-TOP HEADS TO BE AIMED AND LOCKED AT 30 DEGREES FROM NADIR.                                |        |  |
| E-1104 | THIS ZN1b TO BE ORIENTED SO THAT CENTERLINE BETWEEN "LEFT" AND "RIGHT" POLE-TOP HEADS TO BE ALIGNED PARALLEL TO BUILDING GRIDLINE C, WITH "L" HEAD TO PLAN-NORTH, AND "R" HEAD TO PLAN-SOUTH AS SHOWN ON PLAN. BOTH POLE-TOP HEADS TO BE AIMED AND LOCKED AT 30 DEGREES FROM NADIR.                                |        |  |
| E-1105 | CONTRACTOR TO PROVIDE #10 CONDUCTOR THROUGH ENTIRE BRANCH CIRCUIT FEEDING POLE-MOUNTED LIGHT FIXTURES AND #10 CONDUCTOR TO FEED WEATHERPROOF RECEPTACLES AT BASE OF POLE LIGHT CIRCUIT LIGHTING BACK THROUGH INVERTER IN STORAGE 5 TO PANEL "CAPS" CIRCUIT 11. CIRCUIT RECEPTACLES BACK TO PANEL "CAPS" CIRCUIT 9. |        |  |
| E-1106 | ROUTE CONDUIT TO MAIN DISTRIBUTION FRAME IN ADMINISTRATION BUILDING TO CONNECT NEW IDF CABINET TO THE CAMPUS MAIN SYSTEM. PROVIDE MULTIMODE TO SINGLEMODE CONVERTER AND CONNECT TO LOCAL SWITCH AND RUN SINGLE MODE ALL THE WAY TO NEW IDF CABINET AT THE NEW BUILDING PER RISER DIAGRAM ON SHEET 01/E7.03.        |        |  |
| E-1107 | INSTALL LB CONDUIT TO RUN NEW CONDUIT THROUGH THE WALL.  |        |  |
| E-1108 | PROVIDE EXTERIOR, WALL MOUNTED, NEMA 3R, POWER PULL BOX AT +10' A.F.F. FOR ELECTRICAL 1-1/2" C.O. FOR FIRE ALARM AND LOW VOLTAGE CONDUITS, STUB UP AND RUN ON SIDE OF THE EXISTING WALL.   |        |  |
| E-1109 | PROVIDE (N) 24"X30"X24" D PULL BOX WITH TRAFFIC RATED COVER.   |        |  |
| E-1110 | PROVIDE (N) 24"X30"X24" D PULL BOX WITH TRAFFIC RATED COVER AND DIVIDER BETWEEN FIRE ALARM AND LOW VOLTAGE CONDUITS.   |        |  |
| E-1111 | REFER TO 19/E7.01 FOR UNDERGROUND DUCTBANK SECTION DETAIL.   |        |  |
| E-1112 | NEW COMM BOX LOCATION. FIELD VERIFY AND EXTEND EXISTING 24V AND DATA CONNECTION TO NEW LOCATION OF COMM BOX AT SINGLE SWING GATE.  |        |  |

GENERAL NOTES

- MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 1" UNLESS OTHERWISE NOTED.
- MINIMUM UNDERGROUND CONDUCTOR SIZE SHALL BE #10 UNLESS OTHERWISE NOTED.
- ALL SITE BRANCH CIRCUITS SHALL INCLUDE AN NEC-SIZED EQUIPMENT GROUNDING CONDUCTOR
- ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE IN WEATHERPROOF HOUSING (NEMA 3R)
- REFER TO ARCHITECTURAL LANDSCAPE PLANS FOR EXACT LOCATIONS AND DIMENSIONS AND COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN
- CALL UNDERGROUND SERVICE ALERT USA AT 1 800 422 4133 OR APPLICABLE STATE AND LOCAL DIG SAFE HOTLINE PRIOR TO START OF CONSTRUCTION
- ALL UNDERGROUND CONDUITS SHALL MAINTAIN A MINIMUM COVER OF 24" BELOW FINISHED GRADE LEVEL. INCLUDE ALL COSTS IN BASE BID TO MEET UTILITY COMPANY REQUIREMENTS WHICH MAY REQUIRE GREATER MINIMUM CONDUIT DEPTHS.
- CONDUITS SHALL ONLY ENTER AND EXIT ON END/SHORT WALLS. CONDUITS MAY NOT ENTER OR EXIT ON SIDE/LONG WALLS, CEILINGS OR FLOORS UNLESS OTHERWISE NOTED.
- CONDUITS PASSING UNDER BUILDING PERIMETER SHALL BE ENCLOSED IN LIGHTWEIGHT CONCRETE TO PREVENT WATER INFILTRATION.
- CONDUIT BEND RADIUS SHALL BE A MINIMUM OF 24" FOR 2" AND SMALLER DIAMETER CONDUITS, AND A MINIMUM OF 48" FOR 2" TO 4" DIAMETER CONDUITS.
- CONDUIT RADIUS SWEEPS SHALL BE A MAXIMUM OF 90 DEGREES AND A MAXIMUM OF 270 DEGREES TOTAL (VERTICAL + HORIZONTAL) BETWEEN PULL BOXES. PROVIDE INTERMEDIATE PULL BOXES AS REQUIRED TO MEET THIS REQUIREMENT, EVEN IF NOT INDICATED ON PLANS.
- VAULTS AND PULL BOXES ARE TO BE EQUIPPED WITH CIRCULAR COVERS, LADDERS AND SECTIONS OF 6" HIGH CABLE RACKING PER EACH LONG WALL.
- LABEL ALL NON-UTILITY VAULTS/PULL BOXES WITH "COMMUNICATIONS" UNLESS OTHERWISE NOTED.
- PROVIDE A MINIMUM OF 6" DEEP COMPACTED 1/2" DIAMETER GRAVEL UNDER ALL VAULTS/PULL BOXES.
- ALL VAULTS/PULL BOXES WITHOUT GROUNDING LUGS SHALL HAVE AN 8" X 3/4" COPPER GROUND ROD DRIVEN THROUGH THE FLOOR TO ALLOW GROUNDING OF ITEMS WITHIN.
- ALL VAULTS AND PULL BOXES SHALL HAVE TRAFFIC-RATED COVERED WHEN LOCATED IN PAVED AREAS.
- NOTIFY ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES (INCLUDING BUT NOT LIMITED TO FIXTURE LOCATIONS, FIXTURE TYPES, AND MOUNTING CONDITIONS), PRIOR TO FINALIZING FIXTURE ORDER WITH DISTRIBUTOR AND INSTALLING FIXTURE.
- THE ORIENTATION OF MULTI-HEAD POLES SHOWN ON PLAN REPRESENT GENERAL ORIENTATION/AIMING DIRECTIONS. IN ADDITION TO ORIENTING FIXTURES AS SHOWN ON PLAN, CONTRACTOR IS TO SCHEDULE AIMING SESSION(S) WITH LIGHTING DESIGNER TO FINALIZE AIMING; REFER TO KEYNOTES FOR MORE INFORMATION.