

# **RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**



## **ADDENDUM NO. 02**

Bid #1434  
at  
CAMPUS ENTRANCE IMPROVEMENT – PHASE 1 PROJECT

Santiago Canyon College  
8045 East Chapman Avenue, Orange, CA 92869

Project ID #3739, DSA #04-121029

**January 19, 2023**

**Owner:**  
**Rancho Santiago Community College District**  
**2323 North Broadway, Room 112**  
**Santa Ana, California 92706**

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED ON BID FORM WHEN  
SUBMITTED

The following changes, additions, deletions or corrections shall become a part of the Contract Documents for the project named on the previous page and all other conditions shall remain the same. The Bidders shall be responsible for transmitting this information to all affected Subcontractors and Suppliers, prior to the closing of Bids. Prospective Bidders shall acknowledge receipt of all Addenda in the space provided on the Bid Proposal Form by the number (list every addenda). Failure to do so shall deem the Bid Proposal as non-responsive and subject the Bidder to disqualification.

**Item No. AD 2-1 Additional Question Deadline**

The District has established an additional question deadline to allow contractors to review new information in Addendum No. 2. Pre-Bid Questions and requests for clarifications must be submitted to the District by **Wednesday, 5:00 P.M. January 25, 2023 on the District's Pre-Bid Clarification Form provided within**. Bidders are solely responsible for submission of Pre-Bid Questions *prior to such time/date*; the District will not respond to Pre-Bid Questions submitted after such time/date. Responses to timely submitted Pre-Bid Questions will be in the form of Addenda posted on the District's Purchasing Department webpage. Bidders are solely responsible for review of the District's Purchasing Department webpage to obtain Addenda issued during the bidding process. No person is authorized to: (i) render an oral interpretation, correction or modification of any portion of the Contract Documents; or (ii) provide oral responses to Pre-Bid Questions. No Bidder may rely on any such oral interpretation, correction, modification or response.

**Item No. AD 2-2 Clarification regarding District Allowance**

The allowance amount, established by the District, will be published as part of the Bid Results. The bidders should not include an allowance amount in their bid.

**Item No. AD 2-3 Responses to Questions**

The following provides a response to the Bidder's Request for Pre-Bid Information submitted on the Pre-Bid Clarification Form. See attached for a total of (4) RFI Response(s).

**Item No. AD 2-4 Specifications (DSA Addendum 1, approved)**

The following provides the DSA approved specifications. See attached DSA Addendum 1.



**Item No. AD 2-5 Drawings (DSA Addendum 2, approved)**

Revisions have been made to Civil, Electrical, and Landscaping sheets. See attached DSA Addendum 2.

**Item No. AD 2-6 Drawings (DSA Addendum 3, pending DSA approval)**

The following provides revisions made to DSA specifications, and Architectural, Civil, Electrical, and Landscaping sheets. See attached DSA Addendum 3 (pending DSA approval).

**Item No. AD 2-7 Drawings (Construction Logistics & Phasing)**

Construction logistics and phasing plans. See attached Phasing and Logistical Drawings.

Enclosure: PBC (4 pages)

Specifications, DSA Addendum 1 (31 pages)

Drawings, DSA Addendum 2 (9 pages)

Drawings, DSA Addendum 3 (pending DSA approval). (36 pages)

Phasing and Logistical Drawings (3 pages)

**This is the end of Addendum No. 02**

**PRE-BID CLARIFICATION FORM**

*(Email this completed form to FacilitiesBid@rsccd.edu. See Instructions to Bidders.)*

PROJECT NAME:	Campus Entrance Improvements - Phase 1 at Santiago Canyon College		
PROJECT NUMBER:	3739	BID NUMBER:	1434
<b>EMAIL TO: facilitiesbid@rsccd.edu</b>			
DATE:			
FROM:		EMAIL:	
SPEC SECTION:		DRAWING NUMBER:	
REQUESTED CLARIFICATION:			
RESPONSE TO CLARIFICATION:			

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF DOCUMENT

**PRE-BID CLARIFICATION FORM**

(Email this completed form to [FacilitiesBid@rsccd.edu](mailto:FacilitiesBid@rsccd.edu). See Instructions to Bidders.)

PROJECT NAME:	Campus Entrance Improvements - Phase 1 at Santiago Canyon College		
PROJECT NUMBER:	3739	BID NUMBER:	1434
EMAIL TO: <a href="mailto:facilitiesbid@rsccd.edu">facilitiesbid@rsccd.edu</a>			
DATE:	<a href="#">12/20/2022</a>		
FROM:	<a href="#">Marina Landscape</a>	EMAIL:	<a href="mailto:Estimator@marinaco.com">Estimator@marinaco.com</a>
SPEC SECTION:		DRAWING NUMBER:	<a href="#">L-4.01</a>
REQUESTED CLARIFICATION: <a href="#">Irrigation Trenching</a>			
<p>In reference to detail J sheet L-4.01, the trenching depth apply for main line is 18" depth, but the specs and the legend of item show 24" depth. Please clarify.</p>			
RESPONSE TO CLARIFICATION:			
<p><b>Contractor shall follow the Legend and the Specifications, and install the pipe at 24" depth.</b></p> <p><b>-Chris Curry, Glasir Design - 12/22/2022</b></p>			

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF DOCUMENT

**PRE-BID CLARIFICATION FORM**

*(Email this completed form to FacilitiesBid@rscsd.edu. See Instructions to Bidders.)*

PROJECT NAME:	Campus Entrance Improvements - Phase 1 at Santiago Canyon College		
PROJECT NUMBER:	3739	BID NUMBER:	1434
<b>EMAIL TO: facilitiesbid@rscsd.edu</b>			
DATE:	12/20/2022		
FROM:	Marina Landscape	EMAIL:	Estimator@marinaco.com
SPEC SECTION:		DRAWING NUMBER:	L-4.01
<b>REQUESTED CLARIFICATION: Mainline Fittings</b>			
In reference to detail I sheet L-4.01, the fitting use for main line shown sch40, but the specs and legend of items require sch80. Please clarify.			
<b>RESPONSE TO CLARIFICATION:</b>			
Contractor shall install Sch.80 fittings for the mainline, per the Legend. -Chris Curry, Glasir Design - 12/22/2022			

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF DOCUMENT

**PRE-BID CLARIFICATION FORM**

*(Email this completed form to FacilitiesBid@rsccd.edu. See Instructions to Bidders.)*

PROJECT NAME:	Campus Entrance Improvements - Phase 1 at Santiago Canyon College		
PROJECT NUMBER:	3739	BID NUMBER:	1434
<b>EMAIL TO: facilitiesbid@rsccd.edu</b>			
DATE:	12/20/2022		
FROM:	Marina Landscape	EMAIL:	Estimator@marinaco.com
SPEC SECTION:		DRAWING NUMBER:	L-5.01 / L-6.01
<b>REQUESTED CLARIFICATION:</b> Root Barrier			
<p>The note 4 for landscaping on sheet L5.01 require root barrier shall be applied when the trees be located a minimum of 15' feet away from all vertical element. However, the specs and planting note 23 on sheet L-6.01 indicated that all trees planted with 8' feet of any hardscape element shall be received root barrier. Please clarify.</p>			
<b>RESPONSE TO CLARIFICATION:</b>			
<div style="border: 1px solid red; padding: 10px;"> <p>Note 4 on L-5.01 refers to placement of trees in relationship to vertical elements. Trees shall be a minimum of 15' from all vertical elements per the Rancho Santiago Community College District Facility Design Standards. Root barriers are required when trees are within 8' of horizontal hardscape elements (sidewalks, paving, etc.). Both notes are correct, but the root barrier note has been added to L-5.01 for clarity and will be re-issued as part of bid package.</p> <p>RJM Design Group 12/21/22</p> </div>			

Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF DOCUMENT

**PRE-BID CLARIFICATION FORM**

*(Email this completed form to FacilitiesBid@rsccd.edu. See Instructions to Bidders.)*

PROJECT NAME:	Campus Entrance Improvements - Phase 1 at Santiago Canyon College		
PROJECT NUMBER:	3739	BID NUMBER:	1434
<b>EMAIL TO: facilitiesbid@rsccd.edu</b>			
DATE:	12/20/2022		
FROM:	Marina Landscape	EMAIL:	Estimator@marinaco.com
SPEC SECTION:		DRAWING NUMBER:	L-5.01 / L-6.01
<b>REQUESTED CLARIFICATION:</b> <a href="#">Mulch at Groundcover</a>			
<p>The note 8 for landscaping on sheet L-5.01 point out the mulch depth applying for all shrubs and ground cover shall be 4" depth, but the detail 2 and 3 on sheet L-6.01 indicated that the mulch depth shall be 3" for ground cover and 2" for shrubs. Please clarify.</p>			
<b>RESPONSE TO CLARIFICATION:</b>			
<div style="border: 1px solid red; padding: 10px;"> <p>Note 8 on L-5.01 is correct. All mulch layers in planting areas shall be 4" minimum thick per Rancho Santiago Community College District Facility Design Standards / specifications (Section 32 90 00 Part 2, C and the planting and irrigation details). District standards and specifications shall supersede information shown on plans. Plans shall be corrected for clarity and re-issued as part of bid package.</p> <p>RJM Design Group 12/21/22</p> </div>			


Attach additional numbered sheets as necessary; however, only one (1) request shall be contained on each submitted form.

END OF DOCUMENT

## APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval. This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

<b>1. SUBMITTAL TYPE: (Is this a resubmittal? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b>			
Deferred Submittal <input type="checkbox"/>	Addendum Number: <b>1</b>	Revision Number:	CCD Number: _____ Category A <input type="checkbox"/> or B <input type="checkbox"/>
<b>2. PROJECT INFORMATION:</b>			
School District/Owner: <b>RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT</b>		DSA File Number: <b>30 C2</b>	
Project Name/School: <b>SANTIAGO CANYON COLLEGE CAMPUS ENTRANCE IMPROVEMENTS - PHASE</b>		DSA Application Number <b>04 121029</b>	
<b>3. APPLICANT INFORMATION:</b>			
Date Submitted: <b>12/02/22</b>	Attached Pages? No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Number of pages? <b>30</b>		
Firm Name: <b>SVA Architects, Inc.</b>	Contact Name: <b>Robert Simons</b>		
Work Email: <b>BSimons@sva-architects.com</b>	Work Phone: <b>(949) 809-3380</b>		
Firm Address: <b>6 Hutton Centre Drive, Suite 1150</b>	City: <b>Santa Ana</b>	State: <b>CA</b>	Zip Code: <b>92707</b>
<b>4. REASON FOR SUBMITTAL: (Check applicable boxes)</b>			
<input checked="" type="checkbox"/> For revision or addendum prior to construction.		<input type="checkbox"/> For a project currently under construction.	
<input type="checkbox"/> For a project that has a form DSA 301-N: Notification of Requirement for Certification, DSA 301-P: Posted Notification of Requirement for Certification or a 90-Day Letter issued.			
<input type="checkbox"/> To obtain DSA approval of an existing uncertified building or buildings.			
<input type="checkbox"/> For Category B CCD this is: <input type="checkbox"/> a voluntary submittal, <input type="checkbox"/> a DSA required submittal (attach DSA notice requiring submission).			
<b>5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:</b>			
Name of the Design Professional In General Responsible Charge: <b>Robert Simons</b>			
Professional License Number: <b>C-18301</b>		Discipline: <b>Architecture</b>	
<b>Design Professional in General Responsible Charge Statement:</b> The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.			
Signature: <u></u>			
DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE			
<b>6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:</b>			
For addenda, revisions, or CCDs: CHECK THIS BOX <input checked="" type="checkbox"/> to confirm that <i>all</i> post-approval documents have been stamped and signed by the Responsible Design Professional listed on form DSA 1: Application for Approval of Plans and Specifications for this project. (For Deferred Submittals, refer to IR A-18: Use of Construction Documents Prepared by Other Professionals, and IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents, when applicable, for signature and seal requirements.)			
Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed): <b>Making updates to Division 1 specifications only. The 'calendar days' for construction in Section 01 12 16 have been updated. Updated Section 01 21 00 - 'Allowances' items 1.04 (B), 3.01 (A) and 3.01(B). A new form (P) - 'Contractor Payment Checklist' was added in section 01 32 29. Lastly, in section 01 32 29 forms (A) - Application for Payment and (B) - Change Order Summary have been updated with the District's current Vice Chancellor's name on forms.</b>			
List of DSA-approved drawings affected by this post-approval document: <b>Project Manual Specifications Division 1 Section(s): 01 12 16 - 'Phasing of the Work', 01 21 00 - 'Allowances', and 01 32 29 - 'Project Forms'</b>			

DSA USE ONLY		
SSS <b>LR</b> Date <b>12/06/2022</b> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____  FLS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____  ACS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____	<b>Returned</b> Date: <b>12/12/2022</b> By: <b>DP</b>	<b>DSA STAMP</b> <div style="border: 2px solid black; border-radius: 20px; padding: 10px; width: fit-content; margin: auto;"> <p>APPROVED              DIV. OF THE STATE ARCHITECT</p> <p>APP: 04-121029 INC:</p> <p>REVIEWED FOR</p> <p>SS <input checked="" type="checkbox"/> FLS <input type="checkbox"/> ACS <input type="checkbox"/></p> <p>DATE: <u>12/06/2022</u></p> </div>

SECTION 01 12 16  
PHASING OF THE WORK

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Requirements for phasing of the Work include logistics, phasing, and completion of designated phases prior to commencement of subsequent phases.

1.02 RELATED SECTIONS

- A. Section 01 11 00: Summary of Work.
- B. Section 01 31 13: Project Coordination.
- C. Section 01 32 13: Construction Schedule.
- D. Section 01 33 00: Submittal Procedures.
- E. Section 01 50 00: Construction Facilities and Temporary Controls.
- F. Section 01 77 00: Contract Closeout.

1.03 SUBMITTALS

- A. Contractor shall submit a Project site logistics plan in accordance with and as required by this Section.

PART 2 – PRODUCTS (Not applicable)

PART 3 – EXECUTION

3.01 LOGISTICS

- A. Prior to commencement of the Work, Contractor shall prepare and submit to the District Representative, a detailed Project site logistic plan, in the same size and scale of the Drawings, setting forth Contractor plan of the Work relative to the following, but not limited to, items:
  - 1. In accordance with local ordinances a truck access route to and from the Project site.
  - 2. The identification of any overhead wire restrictions for power, street lighting, signal, and/or cable.
  - 3. Local sidewalk access and street closure requirements.
  - 4. Protection of sidewalk pedestrians and vehicular traffic.
  - 5. Project site fencing and access gate locations.
  - 6. Construction parking.
  - 7. Material staging and/or delivery areas.
  - 8. Material storage areas.
  - 9. Temporary trailer locations.
  - 10. Temporary service location and proposed routing of all temporary utilities.



11. Location of temporary and/or accessible fire protection
12. Trash removal and location of dumpsters.
13. Concrete pumping locations.
14. Crane locations.
15. Location of portable sanitary facilities.
16. Mixer truck wash out locations.
17. Traffic control signage.
18. Perimeter and site lighting.
19. Stockpile and/or lay down areas.
20. Emergency Vehicle Access Routes.

- B. A revised Project site logistic plan may be required by the District Representative for separately identified phases of the Work as set forth in this Section.
- C. Contractor is responsible for securing and obtaining all approvals and permits from authorities having jurisdiction relative to logistic plan activities.

3.03 PHASING OF THE WORK

- A. Project will be constructed in separate Milestone increments, as identified, or as described in this Section and/or the Contract Documents. Phasing will also delineate Work to be completed in each designated phase. Unless otherwise approved or directed by the District Representative, each phase shall be completed according to the approved Construction Schedule prior to the commencement of the next subsequent phase. Contractor shall incorporate and coordinate the Work of Separate Work Contracts relative to this Project into the Phasing and Construction Schedule.
- B. Contractor shall install all necessary Work for phased Work before completion of the designated phase.

3.04 PHASING OF THE WORK – GENERAL

- A. Contractor shall prepare the Milestone Schedule in order to complete the Work and related activities in accordance with the phasing plan. Contractor shall include all costs to complete all Work within the Milestones and Contract Time.
- B. Owner will be seriously damaged by not having all Work completed within the Milestones and/or Contract Time. It is mandatory the Work be complete within the Milestones and Contract Time.

3.05 PHASING OF THE WORK – SPECIFIC

- A. Contractor shall prepare the Construction Schedule, and shall complete the following Milestones, but not limited to, within the designated phases in accordance with the following:

1. Submittal – 35 calendar days from NTP.
2. Mobilization – 10 calendar days from NTP.
3. Substantial Completion (Construction Phase 1) – 155 calendar days from NTP.
4. Substantial Completion (Construction Phase 2) – 296 calendar days from NTP.
5. The Final Completion Date – 323 calendar days from NTP.
6. Punch List Correction – 30 calendar days.



- B. Owner will be seriously damaged by not having all Work completed within the Milestones and/or Contract Time. It is mandatory the Work be complete within the Milestones and Contract Time.

END OF SECTION 01 12 16

SECTION 01 21 00

ALLOWANCES

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. This Section specifies administrative and procedural requirements governing Contract allowances.
  - 1. Allowances as set forth in the Specifications are to be used as compensation for items as set forth in this Section. The amounts listed in the schedule or Specifications are to be included in the base bid and shall be listed separately in the Schedule of Values and Application for Payment.

1.02 RELATED SECTIONS

- A. Section 01 29 73: Schedule of Values Procedures.
- B. Section 01 29 76: Progress Payment Procedures.
- C. Section 01 32 13: Construction Schedule.
- D. Section 01 50 00: Construction Facilities and Temporary Controls.

1.03 ALLOWANCES

- A. Use the allowances only as authorized for Owner purposes and only by submitting a form that indicates the amounts to be charged to the respective allowance amount to the District Representative.
- B. District Representative and Architect will review Contractor’s basis for its use of any Allowance costs included in Contract Sum as required, and prior to the execution of Work described in Allowances.
- C. At Substantial Completion of the Work or at any time designated by the District Representative, credit unused amounts remaining in the allowances to the Owner via Change Order.

1.04 ALLOWANCE DISBURSEMENT

- A. Contractor shall submit a request for allowance disbursement to the District Representative. Include all substantiating and/or required data along with the request.
- B. The request shall have the requested amount listed as an allowance disbursement. The allowance expenditure shall include overhead and mark-ups in the same amount and the same format as identified in Section 17.1, Work Modifications, under the Procurement and Contract Provisions (Part 2).



PART 2 – PRODUCTS (Not Applicable)

PART 3 – EXECUTION

3.01 SCHEDULE OF ALLOWANCES

- A. Include in the base bid the following allowances in the following amounts: **To Be Determined.**



- B. Description of Allowance: The allowance shall be used solely for the District to address unforeseen repairs or improvements related to electrical, structural, water, sewer, storm drain or other unforeseen, hidden, or unanticipated site conditions, and necessary for completing work, but are unknown at the time of bid. The allowances will be added to the final contract amount for award once the District determines the lowest, responsive bidder.



END OF SECTION 01 21 00

SECTION 01 32 29

PROJECT FORMS

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. The following, but not limited to, District administrative forms and documents listed in this Section to be utilized in the administration of the Work.
- B. Electronic versions of these forms are available if requested from the District Representative.
- C. From time to time, Owner may release new revisions and new Project Forms. At any time during the Project, if requested by District Representative, Contractor shall use the newly released Project Form(s).

1.02 RELATED DOCUMENTS


- A. Procurement and Contract Provisions (PARTS 1 and 2).
- B. Division 01.

PART 2 – PRODUCTS (Not applicable)

PART 3 – EXECUTION

3.01 FORMS: Contractor to utilize the following District standard forms (refer to Appendix A for a copy of the forms listed below)

- A. Application for Payment / Schedule of Values
- B. Change Order
- C. Conditional Waiver and Release – Final Payment
- D. Conditional Waiver and Release – Progress Payment
- E. Immediate Change Directive
- F. Unconditional Waiver and Release – Final Payment
- G. Unconditional Waiver and Release – Progress Payment
- H. Construction Waste Management Plan
- I. Construction Waste Management Progress Report
- J. Request for Export Material Testing
- K. Request for Import Material Testing
- L. Certificate of Substantial Completion
- M. Warranty Guarantee Form
- N. Allowance Disbursement Form
- O. Substitution Request Form (Post Award)

P. Contractor Payment Checklist 

3.02.1 PROCEDURES

- A. Application for Payment/Schedule of Values: This form is used in requesting a progress payment and to establish the basis of the certified application for payment.
- B. Change Order: This form is used to adjust the Contract Amount, Milestones and/or the Contract Time.
- C. Conditional Waiver and Release: Use this form when the claimant is required to execute a waiver and release in exchange for or in order to induce the payment of a progress payment and the claimant has not been paid.
- D. Immediate Change Directive: This form is used to issue an Immediate Change Directive.
- E. Unconditional Waiver and Release: Use this form when the claimant is required to execute a waiver and release in exchange for or in order to induce payment of a progress payment and the claimant asserts in the waiver that he or she has in fact been paid the progress payment.
- F. Request for Export Material Testing: This form is to be completed and provided to District Representative in accordance with Specification 01 45 24.
- G. Construction Waste Management Plan: This form is used to provide a Waste Management Plan, submitted in accordance with Specification Section 01 74 19 and prior to any waste removal.
- H. Construction Waste Management Progress Report: This form is used to provide a Waste Management Monthly Progress Report, summarizing waste generated by Project and submitted monthly with Application for Payment.
- I. Core Employee List: This form is to be completed by All Prime Contractors/Consultants, Subcontractor/Sub-consultants intending to employ core workers. Complete this list and then forward to the District’s Labor Compliance Consultant.
- J. Monthly Employee Utilization Form: This form is to be completed monthly and then to be forwarded to the District’s Labor Compliance Consultant.
- K. Modified Certified Payroll Form: This form is to be completed monthly and then to be forwarded to the District’s Labor Compliance Consultant in addition to the electronic Certified Payroll.
- L. Checklist of Labor Law Requirements: This is to be completed by all Contractors, acknowledging and understanding the Federal and State Labor Law.
- M. Request for Import Material Testing: This form is to be completed and provided to District Representative in accordance with Specification Section 01 45 24.
- N. Certificate of Substantial Completion: This form is to be completed and signed by all parties once project has been determined to be substantially complete.
- O. Warranty Guarantee Form: This form shall be filled out and signed by Contractor and Subcontractors prior to completion of closeout activities.
- P. Construction Contingency Work Authorization: This form shall be filled out and signed by Contractor then issued to District Representative for review and approval.
- Q. Substitution Request Form: This form shall be provided for any substitution requests after award as further described in Specification Sections 01 60 00, 01 62 11, and the Procurement and Contract Provisions (General Conditions).
- R. Contractor Payment Checklist: This form shall be completed and signed by the Contractor as part of progress payments, Substantial Completion and/or Final Payment procedure.



END OF SECTION 01 32 29

# **01 32 29 – PROJECT FORMS**

## **APPENDIX A**



**Rancho Santiago Community College District**  
 2323 North Broadway  
 Santa Ana, CA 92706

PAYMENT NO. \_\_\_\_\_

For the period: \_\_\_\_\_ to \_\_\_\_\_  
 Contractor: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_

DSA # \_\_\_\_\_  
 Project Name \_\_\_\_\_  
 P.O. No. \_\_\_\_\_

**A. ANALYSIS OF ADJUSTED CONTRACT AMOUNT TO DATE**

1. Original contract amount		\$	-
2. Change made from Approved Change Orders		\$	-
3. Adjusted contract amount to date	(B1 + B2 + B3)	\$	-

**B. COMPUTATION OF PAYMENT DUE**

1. Work completed to date on original contract		\$	-
2. Change Order work performed to date		\$	-
3. Total work performed to date	(B.1 + B.2)	\$	-
4. Less: 5% retained	(B.3 x 5%)	\$	-
5. Net amount earned to date	(B.3 - B.4)	\$	-
6. Amount to be withheld because of: _____		\$	-
7. Balance	(B.5 - B.6)	\$	-
8. Less: Amount of previous payments	(B.9 from previous application)		
9. Amount due this payment	(B.7 - B.8)	\$	-
10. Unpaid balance on RSCCD amount of contract		\$	-

**C. CERTIFICATION OF CONTRACTOR OR HIS DULY AUTHORIZED REPRESENTATIVE**

To the best of my knowledge and belief, I certify that all items and prices of work and material shown on this periodical estimate are correct; that all work has been performed and materials supplied in full accordance with the terms and conditions of the construction contract documents covering the work of the indicated contract, and all change orders approved by the **Board of Trustees**; that this is a true and correct statement of the contract account up to and including the last day of the period covered by this estimate and that no part of the amount "Amount Due This Payment" has been received.

I further certify that this payment will be used to pay all just and lawful bills against the undersigned for labor, materials and expendable equipment employed in the performance of the indicated contract.

\_\_\_\_\_  
 Contractor Signature Date  
 Print Name: \_\_\_\_\_

\_\_\_\_\_  
 RSCCD Project Manager Signature Date  
 Print Name: \_\_\_\_\_

\_\_\_\_\_  
 Project Inspector Signature Date  
 Print Name: \_\_\_\_\_

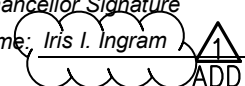
\_\_\_\_\_  
 RSCCD Director Facilities Planning Signature Date  
 Print Name: Joe Melendez

\_\_\_\_\_  
 Architect Signature Date  
 Print Name: \_\_\_\_\_

\_\_\_\_\_  
 RSCCD Asst. Vice Chancellor Signature Date  
 Print Name: Carri M. Matsumoto

\_\_\_\_\_  
 Construction Mngr Signature Date  
 Print Name: \_\_\_\_\_

\_\_\_\_\_  
 RSCCD Vice Chancellor Signature Date  
 Print Name: Iris I. Ingram



**D. CERTIFICATE OF PAYMENT**

This is to certify that \_\_\_\_\_ 0  
 is entitled to a payment of \$0.00  
 For the work performed at the \_\_\_\_\_ 0 in accordance with terms of the contract.



# CONTINUATION SHEET

APPLICATION AND CERTIFICATION FOR PAYMENT, containing Contractor's signing Certification, is attached. In tabulation below, amounts are stated to the nearest dollar. Use Column 1 and Contract where variable retainage for line items may apply

Application No.: 0  
 Application Date: 1/0/1900  
 Period To: 1/0/1900

A ITEM NO.	B DESCRIPTION OF WORK	C			D		E	F	G		H	I
		ORIGINAL CONTRACT AMOUNT	CHANGE ORDER AMOUNT	CURRENT CONTRACT AMOUNT	WORK COMPLETED		MATERIALS PRESENTLY STORED (NOT IN D OR E)	TOTAL COMPLETED AND STORED TO DATE (D+E+F)	% (G ÷ C)	BALANCE TO FINISH (C-G)	RETAINAGE (IF VARIABLE RATE)	
					FROM PREVIOUS APPLICATIONS (D + E)	THIS PERIOD						
	<b>GENERAL CONDITIONS</b>			\$ -				\$ -	#DIV/0!	\$ -	\$ -	
				\$ -				\$ -	#DIV/0!	\$ -	\$ -	
				\$ -				\$ -	#DIV/0!	\$ -	\$ -	
				\$ -		\$ -		\$ -	#DIV/0!	\$ -	\$ -	
				\$ -				\$ -	#DIV/0!	\$ -	\$ -	
				\$ -				\$ -	#DIV/0!	\$ -	\$ -	
	<b>SUBTOTAL GENERAL CONDITIONS</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ -	
	<b>SUBCONTRACTORS</b>											
1		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
2		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
3		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
4		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
5		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
6		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
7		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
8		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
9		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
10		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
11		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
12		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
13		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
14		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
15		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
16		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
17		\$ -		\$ -	\$ -	\$ -		\$ -	#DIV/0!	\$ -	\$ -	
	<b>SUBTOTAL SUBCONTRACTORS</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ -	
	<b>SUBTOTAL</b>	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ -	

<b>CHANGE ORDERS</b>															
Change order #1				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-
<b>Current Billing Totals</b>				\$	-		\$	-	\$	-	#DIV/0!	\$	-	\$	-



**Rancho Santiago Community College District**

2323 North Broadway  
Santa Ana, CA 92706

**Change Order Tracker**

PAYMENT NO. 0

For the period 1/0/1900 to 1/0/1900  
 Contractor 0  
 Address 0  
 Phone 0

DSA # 0  
 Project Name Campus Entrance Improvements - Phase 1  
 P.O. No. 0

CHANGE ORDER			Percentage Complete (4)	CO AMOUNT (\$) (5)	ADDITIONS	
NO. (1)	DATE (2)	DESCRIPTION (3)			COMPLETED TO DATE (\$) (6)	
					Previous Period	This Period
1		Change order #1	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$) \$						-
2		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$) \$						-
3		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$) \$						-

4		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$) \$ -						
5		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$) \$ -						
6		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ - \$ -	\$ -
COMPLETED TO DATE (\$) \$ -						
7		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$) \$ -						

8		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$)						\$ -
9		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$)						\$ -
10		0	#DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0! #DIV/0!	\$ -	\$ -	\$ -
COMPLETED TO DATE (\$)						\$ -

Change Orders Total	\$ -	Matches SOV
Previous Period Total	\$ -	Matches SOV
This Period Total	\$ -	Matches SOV
Completed to Date Total	\$ -	Matches SOV



Facility Planning, District Construction & Support Services  
 2323 North Broadway, Rm 112  
 Santa Ana, CA 92706

Board Date: \_\_\_\_\_  
 Project/Bid No. \_\_\_\_\_ 0  
 Site: \_\_\_\_\_ 0  
 Change Order (CO) No. : \_\_\_\_\_ 0

Project Name: Campus Entrance Improvements - Phase 1  
 Contractor: \_\_\_\_\_ 0  
 Contract No.: \_\_\_\_\_ 0

Contract Schedule Summary					
Notice to Proceed Date	Original Contract Duration (Days)	Original Contract Completion Date	Previous Extension Days Approved	Proposed CO Days Requested	New Revised Completion Date
01/00/00	0	01/00/00	0	0	1/0/1900

Change Order Summary			
Description	Number	Amount	% of Contract
Original Contract Amount		\$0.00	
Previous Change Orders	0	\$0.00	#DIV/0!
<b>This Change Order</b>	<b>0</b>	<b>\$0.00</b>	<b>#DIV/0!</b>
<b>Total Change Order (s)</b>		<b>\$0.00</b>	<b>#DIV/0!</b>
Revised Contract Amount		\$0.00	

Items in Change Order						
Item No.	Description	Reason	Ext. Day	Credit	Add	Net
1	0	0	0	\$0.00	\$0.00	\$0.00
Subtotal				\$0.00	\$0.00	\$0.00
Grand Total						\$0.00

- 1 - CODE REQUIREMENT
- 2 - FIELD CONDITION
- 3 - INSPECTION REQUIREMENT
- 4 - DESIGN REQUIREMENT
- 5 - OWNER REQUIREMENT



Facility Planning, District Construction & Support Services  
 2323 North Broadway, Rm 112  
 Santa Ana, CA 92706

**Project Name:** \_\_\_\_\_ Campus Entrance Improvements - Phase 1  
**Contractor:** \_\_\_\_\_  
**Contract No.:** \_\_\_\_\_

**Board Date:** \_\_\_\_\_  
**Project/Bid No.** \_\_\_\_\_  
**Site:** \_\_\_\_\_  
**Change Order (CO) No. :** \_\_\_\_\_

Contract Schedule Summary					
Notice to Proceed Date	Original Contract Duration (Days)	Original Contract Completion Date	Previous Extension Days Approved	Proposed CO Days Requested	New Revised Completion Date

Change Order Summary			
Description	Number	Amount	% of Contact
Original Contract Amount		\$0.00	
Previous Change Orders		\$0.00	#DIV/0!
<b>This Change Order</b>		\$0.00	<b>#DIV/0!</b>
<b>Total Change Order (s)</b>		\$0.00	<b>#DIV/0!</b>
<b>Revised Contract Amount</b>		\$0.00	

Items in Change Order						
Item No.	Description	Reason	Ext. Day	Credit	Add	Net
				\$ -	\$ -	\$ -
Subtotal				\$ -	\$ -	\$ -
<b>Grand Total</b>						<b>\$ -</b>

- 1 - CODE REQUIREMENT
- 2 - FIELD CONDITION
- 3 - INSPECTION REQUIREMENT
- 4 - DESIGN REQUIREMENT
- 5 - OWNER REQUIREMENT

The Contractor is to provide a complete description and specification of work involved and reason. The documents supporting this Change Order, including any drawings and estimates of that cost are attached hereto and made a part thereof.

Contractor agrees to furnish all labor and materials and perform all of the above described work in accordance with the above terms in compliance with applicable sections of the Contract Documents. The amount of the charges under this Change Order is limited to the charges allowed under the General Conditions. The adjustment in the contract sum, if any, and the adjustment in the contract time, if any, set out in this Change Order shall constitute the entire compensation and/or adjustment in the contract time and contract sum due to the Contractor arising out of the change in the work covered by this Change Order, unless otherwise provided in this Change Order. It is understood that this Change Order shall be effective upon approval

\_\_\_\_\_  
 Contractor Date


\_\_\_\_\_  
 Architect Date

\_\_\_\_\_  
 Inspector Date

\_\_\_\_\_  
 RSCCD Project Manager Date

*Joe Melendez*  
 RSCCD Director Date

*Carri M. Matsumoto*  
 RSCCD Assistant Vice Chancellor Date

 *Iris Ingram*  
 RSCCD Vice Chancellor \_\_\_\_\_ Date



Project Name: Campus Entrance Improvements - Phase 1

Project No.: \_\_\_\_\_ DSA Application No. \_\_\_\_\_

## Conditional Waiver and Release Upon Final Payment

### CALIFORNIA CIVIL CODE SECTION 8136

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT’S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

#### **Identifying Information**

Name of Claimant: \_\_\_\_\_

Name of Customer: \_\_\_\_\_

Job Location: \_\_\_\_\_

Owner: RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. This document is effective only on the claimant’s receipt of payment from the financial institution on which the following check is drawn:

Maker of Check: \_\_\_\_\_

Amount of Check: \_\_\_\_\_

Check Payable To: \_\_\_\_\_

#### **Exceptions**

This document does not affect any of the following: Disputed claims for extras in the amount of \$ \_\_\_\_\_.

Date: \_\_\_\_\_  
\_\_\_\_\_  
(Company Name)

BY: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)





Project Name: Campus Entrance Improvements - Phase 1

Project No.: \_\_\_\_\_ DSA Application No. \_\_\_\_\_

## Conditional Waiver and Release Upon Progress Payment

### CALIFORNIA CIVIL CODE SECTION 8132

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT'S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

#### Identifying Information

Name of Claimant: \_\_\_\_\_

Name of Customer: \_\_\_\_\_

Job Location: \_\_\_\_\_

Owner: RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

Through Date: \_\_\_\_\_

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job through the Through Date of this document. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. This document is effective only on the claimant's receipt of payment from the financial institution on which the following check is drawn:

Maker of Check: \_\_\_\_\_

Amount of Check: \_\_\_\_\_

Check Payable To: \_\_\_\_\_

#### Exceptions

This document does not affect any of the following: (1) Retentions; (2) Extras for which claimant has not received payment; (3) The following progress payments for which the claimant has previously provided a conditional waiver and release but has not received payment: Date(s) of waiver and release: \_\_\_\_\_, Amount(s) of unpaid progress payment(s): \$ \_\_\_\_\_; (4) Contract rights including: (A) a right based on rescission, abandonment, or breach of contract, and (B) the right to recover compensation for work not compensated by the payment.

Date: \_\_\_\_\_  
\_\_\_\_\_ (Company Name)

BY: \_\_\_\_\_  
\_\_\_\_\_ (Signature)

\_\_\_\_\_  
(Title)



**Facility Planning, District Construction & Support Services**  
 2323 North Broadway, Suite 112  
 Santa Ana, CA 92706-1640

**Immediate Change Directive (ICD)**

Date:			
Project Name:	Campus Entrance Improvements - Phase 1	ICD No.:	
Project No.:		Use of Allowance Dollars?	<YES or NO>
Architect:		Reference RFI No.:	
Contractor:		Reference COR No.:	
		<b>Initiated By:</b>	<input type="checkbox"/> District <input type="checkbox"/> Architect <input type="checkbox"/> Contractor <input type="checkbox"/> Other: <span style="border-bottom: 1px solid black; display: inline-block; width: 50px;"></span>

WORK REQUIRED:

REASON FOR CHANGE DIRECTIVE:

STATUS OF WORK/CONSTRUCTION ACTIVITIES AFFECTED:

**CONTRACTOR IS AUTHORIZED TO PROCEED WITH THE WORK PURSUANT TO THE CONSTRUCTION SERVICES AGREEMENT IN THE FOLLOWING MANNER:**

<input type="checkbox"/> <i>Time &amp; Materials (T&amp;M), Not-to-Exceed</i> <span style="border-bottom: 1px solid black; display: inline-block; width: 100px;"></span> Complete work within dollar limit stated, submit daily time tickets	Additional Days Required: <span style="border-bottom: 1px solid black; display: inline-block; width: 100px;"></span> Days beyond Approved Contract Completion Date
<input type="checkbox"/> <i>Lump Sum</i> <span style="border-bottom: 1px solid black; display: inline-block; width: 100px;"></span> Complete work for above indicated agreed upon lump sum	Schedule Activity Nos. Affected: <span style="border-bottom: 1px solid black; display: inline-block; width: 100px;"></span>
<input type="checkbox"/> <i>Directed to Proceed, Submit Pricing</i> <span style="border-bottom: 1px solid black; display: inline-block; width: 100px;"></span> Proceed with work immediately. Pricing shall be submitted per the Agreement	

Pursuant to Article 7.3.1.2 an Immediate Change Directive is a written order to the Contractor prepared by the Architect and signed by the District (and CM if there is a CM on the Project) and the Architect, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both. The District may by ICD, without invalidating the Contract, direct immediate changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions within. If applicable, the Contract Sum and Contract Time will be adjusted accordingly. CONTRACTOR SHALL PROCEED WITH WORK SET FORTH IN THIS ICD IMMEDIATELY UPON RECEIPT OR THE DISTRICT MAY EITHER HOLD THE CONTRACTOR IN EITHER PARTIAL DEFAULT PURSUANT TO ARTICLE 2.2 OR TOTAL DEFAULT PURSUANT TO ARTICLE 14.

	Rancho Santiago Community College
CONTRACTOR: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>	DISTRICT: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;">District</span>
Approved By: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>	Approved By: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>
Date: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>	Date: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>
CM: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>	ARCHITECT: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>
Approved By: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>	Approved By: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>
Date: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>	Date: <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>



Project Name: Campus Entrance Improvements - Phase 1

Project No.: \_\_\_\_\_ DSA Application No. \_\_\_\_\_

## **Unconditional Waiver and Release Upon Final Payment**

### **CALIFORNIA CIVIL CODE SECTION 8138**

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

#### **Identifying Information**

Name of Claimant: \_\_\_\_\_

Name of Customer: \_\_\_\_\_

Job Location: \_\_\_\_\_

Owner: RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for all labor and service provided, and equipment and material delivered, to the customer on this job. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. The claimant has been paid in full.

#### **Exceptions**

This document does not affect any of the following: Disputed claims for extras in the amount of \$ \_\_\_\_\_.

Date: \_\_\_\_\_  
\_\_\_\_\_ (Company Name)

BY: \_\_\_\_\_  
\_\_\_\_\_ (Signature)

\_\_\_\_\_ (Title)



Project Name: Campus Entrance Improvements - Phase 1

Project No.: \_\_\_\_\_ DSA Application No. \_\_\_\_\_

**Unconditional Waiver and Release  
Upon Progress Payment  
CALIFORNIA CIVIL CODE SECTION 8134**

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

**Identifying Information**

Name of Claimant: \_\_\_\_\_

Name of Customer: \_\_\_\_\_

Job Location: \_\_\_\_\_

Owner: RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

Through Date: \_\_\_\_\_

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job through the Through Date of this document. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. The claimant has received the following progress payment: \$ \_\_\_\_\_.

**Exceptions**

This document does not affect any of the following: (1) Retentions; (2) Extras for which claimant has not received payment; (3) Contract rights including: (A) a right based on rescission, abandonment, or breach of contract, and (B) the right to recover compensation for work not compensated by the payment.

Date: \_\_\_\_\_  
\_\_\_\_\_  
(Company Name)

BY: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Title)



**Instructions regarding Form:**

1. General:
  - a. Attach proposed Recycling and Waste Bin Location Plan.
  - b. Attach name and contact data for each recycling or disposal destination to be used.
2. Column 1: "Material Types" – Enter types of materials targeted for recycling, reuse, and/or salvage, either on or off-site, and include a category for waste materials requiring disposal.
3. Columns 2 – 4: "Estimated Generation" – Enter estimated quantities (tons) of recyclable, reusable, or salvageable waste materials anticipated to be generated and state number of salvageable items.
4. Column 5: "Estimated Landfill" – Enter quantities (tons) of materials to be disposed in landfill.
5. Column 6: "Disposal Location" – Enter end-destination of recycled, salvaged, and disposed materials.

**(DELETE TEXT BOX BEFORE PROVIDING TO DISTRICT REPRESENTATIVE)**

**CONSTRUCTION WASTE MANAGEMENT PLAN**

PROJECT NAME: Campus Entrance Improvements - Phase 1

PROJECT SITE ADDRESS: \_\_\_\_\_

PROJECT NO: \_\_\_\_\_

NAME OF COMPANY: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

PROJECT TYPE:  NEW CONSTRUCTION     DEMOLITION  
 RENOVATION / ALTERATION PROJECTS

PROJECT SIZE (SQ. FT.): \_\_\_\_\_

DATE & ESTIMATED PERIOD: \_\_\_\_\_

(1) Material Type	(2) Tons Estimated Recycle	(3) Tons Estimated Reuse	(4) Tons Estimated Salvage	(5) Tons Estimated Landfill	(6) Proposed Disposal or Recycling Facility (e.g., Onsite, Name of Facility)
<b>Total</b>					
<b>Diversion Rate: Columns [(2)+(3)+(4)] / [(2)+(3)+(4)+(5)]</b>					=

Signature	Title	Date
-----------	-------	------



**Instructions regarding Form:**

1. General:
  - a. Attach proposed Recycling and Waste Bin Location Plan.
  - b. Attach name and contact data for each recycling or disposal destination to be used.
2. Column 1: "Material Types" – Enter types of materials targeted for recycling, reuse, and/or salvage, either on or off-site, and include a category for waste materials requiring disposal.
3. Columns 2 – 4: "Estimated Generation" – Enter estimated quantities (tons) of recyclable, reusable, or salvageable waste materials anticipated to be generated and state number of salvageable items.
4. Column 5: "Estimated Landfill" – Enter quantities (tons) of materials to be disposed in landfill.
5. Column 6: "Disposal Location" – Enter end-destination of recycled, salvaged, and disposed materials.

**(DELETE TEXT BOX BEFORE PROVIDING TO DISTRICT REPRESENTATIVE)**

**CONSTRUCTION WASTE MANAGEMENT PROGRESS REPORT**

PROJECT NAME: Campus Entrance Improvements - Phase 1

PROJECT SITE ADDRESS: \_\_\_\_\_

PROJECT NO: \_\_\_\_\_

NAME OF COMPANY: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

PROJECT TYPE:  NEW CONSTRUCTION     DEMOLITION  
 RENOVATION / ALTERATION PROJECTS

PROJECT SIZE (SQ. FT.): \_\_\_\_\_

PERIOD: \_\_\_\_\_

(1) Material Type	(2) Tons Actual Recycle	(3) Tons Actual Reuse	(4) Tons Actual Salvage	(5) Tons Actual Landfill	(6) Disposal or Recycling Facility (e.g., Onsite, Name of Facility)
<b>Total</b>					
<b>Diversion Rate: Columns [(2)+(3)+(4)] / [(2)+(3)+(4)+(5)]</b>					=

Signature	Title	Date
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# REQUEST FOR INFORMATION (RFI)

School Name: Santiago Canyon College

RFI Number: \_\_\_\_\_

Project Name: Campus Entrance Improvements - Phase 1

Date: \_\_\_\_\_

Contractor: \_\_\_\_\_

Project No.: \_\_\_\_\_

Date Issued To: \_\_\_\_\_  
(Architect)

DSA No.: \_\_\_\_\_

\_\_\_\_\_  
Drawing Number Detail

\_\_\_\_\_  
Drawing Page

\_\_\_\_\_  
Specification

### Information Requested:

### Suggested Course of Action:

Schedule Impact:  Yes  No

Cost Impact:  Yes  No

Request Issued by: \_\_\_\_\_  
*Contractor's Signature*

\_\_\_\_\_  
*Name (Printed)*

\_\_\_\_\_  
*Date*

### Response:

Response Issued by: \_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*Name (Printed)*

\_\_\_\_\_  
*Date*

Response Reviewed by: \_\_\_\_\_  
*Architect's Signature*

\_\_\_\_\_  
*Name (Printed)*

\_\_\_\_\_  
*Date*

Proceeding with the Work in accordance with the above information indicates the Contractor's acknowledgement that there will be no change in the Contract Sum or Contract Time. If the Contractor considers that a change in Contract Sum or Contract Time is required, before proceeding with the work obtain authorization from the Owner by notifying the Owner and the Architect within five (5) working days and submit an itemized proposal within ten (10) days.



## REQUEST FOR IMPORT MATERIALS TESTING FORM

Date:	
Project Name:	Campus Entrance Improvements - Phase 1
RSCCD Project No.:	
Contractor:	
School Site Receiving Import (Name and Address):	

<b>Location of Soil Borrow Site:</b>	
Borrow Site Address:	
Borrow Site City:	
Major Cross Streets:	

<b>Soil Owner Information:</b>	
Soil Owner Name:	
Contact Name:	
Contact Phone Number:	

<b>Site History:</b>	
Describe Current Site Use:	
Describe Site History:	
Available Environmental Documents:	

<b>Borrow Soil Description:</b>	
Material Type:	<input type="checkbox"/> Fill Soil <input type="checkbox"/> Other: _____
Import Soil Volume:	(Tonnage)
If in place material, depth and acres of excavation:	
<input type="checkbox"/> Only portion of material is available or <input type="checkbox"/> All required material is available	<input type="checkbox"/> Stockpile or <input type="checkbox"/> In Place
Materials already on Import Site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

<b>Schedule:</b>	
Date and time when results are needed:	
Date formal report is needed:	

<u>Comments:</u>
------------------

Note: Requests for testing at District pre-tested sites must be received four (4) weeks in advance of material being needed on site. Requests for non-pre-tested sites must be received eight (8) weeks in advance of material being needed on site.



## CERTIFICATE OF SUBSTANTIAL COMPLETION

DATE:

SITE:	CONTRACT #:	
PROJECT NAME: Campus Entrance Improvements - Phase 1	PROJECT ID#:	DSA#:
CONTRACTOR:	CONTRACT DATE:	

- This Certificate of Substantial Completion applies to **all work** under the Contract Documents.
- This Certificate of Substantial Completion applies to **the following specific parts** of the Contract Documents:

The work performed under the above-referenced Contract has been reviewed and found, by the signatory's (below) best knowledge, information and belief, to be "Substantially Completed" as defined in the Contract. The Substantial Completion Date of the Project or portion thereof designated above is hereby established as \_\_\_\_\_, 20\_\_.

- The completion of the Punch List for Final Completion is attached hereto

This list may not be inclusive, and the failure to include an item on such list does not alter the responsibility of the Contractor to reach Final Completion of all work in accordance with the Contract Documents. Such work shall be completed or corrected to the satisfaction of the District within the number of days provided in the Contract for Punch List work.

This certificate does not constitute an acceptance of Work not in accordance with the Contract Documents nor is it a release of the Contract's obligation to complete the Work in accordance with the Contract Documents.

\_\_\_\_\_  
Contractor Date

\_\_\_\_\_  
RSCCD Project Manager Date

\_\_\_\_\_  
Inspector Date

\_\_\_\_\_  
RSCCD Director Date

\_\_\_\_\_  
Architect Date

**WARRANTY GUARANTEE FORM**

*(To issue to the Contractor by the District)*

Project Name: Santiago Canyon College – Campus Entrance Improvements - Phase 1

Project ID: \_\_\_\_\_

The following is a warranty and guarantee by the undersigned for the work which has been completed/installed at 8045 E. Chapman Avenue, Orange, CA 92869, will provide a new drop-off/pick-up area, modifying the existing access drive and a new round-about median. The exterior improvements will involve modifying existing walkways, hardscape, landscape, driving aisles and parking.

Capitalized terms not defined herein shall have the meanings assigned to them in the Contract Documents applicable to the Warranted Work at the time it was furnished and installed at the Project.

The undersigned hereby warrants and guarantees that (1) the Warranted Work (including, without limitation, all pieces and parts thereof that are incorporated into the Warranted Work), unless otherwise expressly permitted or required by the Contract Documents, is of first-class quality and new; and (2) the Warranted Work conforms with the requirements of the Contract Documents and Applicable Laws; and (3) the Warranted Work is and will remain free of defects appearing within a period of two (2) years from FINAL COMPLETION as defined in the Contract; ordinary wear and tear and unusual abuse or neglect excepted.

SYSTEM OR ITEM	WARRANTY DURATION (YEARS)

In the event of the Warranted Work is found not in compliance with the terms of this warranty, then the District shall have the right, after expiration of a reasonable period of time (not later than seven (7) calendar days) following mailing by regular mail of notification by the District to the undersigned as its last known or reputed address, to proceed to have the Warranted Work repair, replace or otherwise made good, to whatever extent necessary, to make the Warranted Work comply with its terms of this warranty.

Warranties shall provide by written endorsement that if warranted Work fails and is replaced, removed or substantially rebuilt, that the original warranty on such Work shall be renewed, whereas the full warranty periods starts over again, commencing from when Work covered by warranty was corrected.

The responsibility of the undersigned under this warranty includes, without limitation, replacement, removal and repair not only of the Warranted Work, but also of related or adjoining portions of work, equipment, materials or property as necessary to provide access for correction of the Warranted Work, as well as any other loss or damage (including, without limitation, economic loss) resulting directly or indirectly to District from the failure of the Warranted Work to comply with the terms of this warranty. All costs, expenses, damages and other losses to District due to the failure of the Warranted Work to comply with the terms of this warranty shall be deemed to be expenses of undersigned and shall be paid by the undersigned to the District upon demand.

_____ Print-Subcontractor or Supplier (Company Name)	_____ Signature of Subcontractor or Supplier	_____ Date
_____ Print-General Contractor (Company Name)	_____ Signature of General Contractor	_____ Date

**Representative(s) to be contacted for service:**

First and Last Name of Representative:	
Mailing Address:	
Email Address:	Contact Number:

**Rancho Santiago Community College District**

**CONTRACTOR ALLOWANCE  
DISBURSEMENT AUTHORIZATION**

College Name: Santiago Canyon College

Initiation Date: \_\_\_\_\_

Project Name: Campus Entrance Improvements - Phase 1

Allowance Disbursement No.: \_\_\_\_\_

To: (District) \_\_\_\_\_

Project Bid No: \_\_\_\_\_

From: (Contractor) \_\_\_\_\_

Contract / PO Number: \_\_\_\_\_

**Description of Item to be charged to District Allowance:**

**Amount**

Description of Item to be charged to District Allowance:	Amount

**Contractor Allowance Request Total: \$0.00**

A. Original Contractor Allowance Amount:	<u>\$0.00</u>
B. Net Allowance Disbursements previously authorized:	_____
C. Charges to Contractor Allowance as a result of this authorization:	<u>\$0.00</u>
D. Current Contractor Allowance Balance including this authorization:	<u>\$0.00</u>

Acknowledgment:

\_\_\_\_\_  
Project Manager Signature

\_\_\_\_\_  
Name (Printed)

\_\_\_\_\_  
Date

\_\_\_\_\_  
District Representative Signature

\_\_\_\_\_  
Name (Printed)

\_\_\_\_\_  
Date

cc: Project File

## SUBSTITUTION REQUEST FORM

**To:** <Insert Contact Info>

**From:**

**Contact:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Phone:** \_\_\_\_\_

---

**Owner:** RSCCD – Santiago Canyon College

**Submittal Date:** \_\_\_\_\_

**Project:** Campus Entrance Improvements – Phase 1

**Previous Date:** \_\_\_\_\_

---

### PROPOSED SUBSTITUTION

Specification Section, Article, Paragraph: \_\_\_\_\_

Applicable Drawing & Details: \_\_\_\_\_

Proposed Substitution: \_\_\_\_\_

Manufacturer: \_\_\_\_\_

Product/Model: \_\_\_\_\_

### REASON FOR SUBSTITUTION REQUEST

Specified product is not available. Explain: \_\_\_\_\_

Other: \_\_\_\_\_

### EFFECTS OF PROPOSED SUBSTITUTION

Does substitution affect dimensions indicated on Drawings?

NO  YES Explain: \_\_\_\_\_

Does substitution affect Work of other Sections?

NO  YES Explain: \_\_\_\_\_

Does substitution require modifications to design, changes to Drawings, or revisions to specifications to be incorporated into the Project?

NO  YES Explain: \_\_\_\_\_

---

### CONTRACTOR'S REPRESENTATION

Undersigned accepts responsibility for coordination of proposed substitution and accepts all additional costs resulting from the incorporation of proposed substitution into the Project per Section 016000.

#### Subcontractor

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

#### DISTRICT/ARCHITECT'S REVIEW

Accepted

Not Accepted

#### Contractor

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewer: \_\_\_\_\_

Review Date: \_\_\_\_\_

# CONTRACTOR PAYMENT CHECKLIST

To: Rancho Santiago Community College District

Transmittal Date: \_\_\_\_\_

Payment Application No.: \_\_\_\_\_

Campus Name: \_\_\_\_\_

Project Number: \_\_\_\_\_

Project Name: \_\_\_\_\_

Contract Number: \_\_\_\_\_

- Progress Payment     Substantial Completion     Final Payment

**The following items have been VERIFIED:**

- Certified Payroll Records** submitted to DIR
- Project Record Documents** current (RFI's and changes updated on CD's) Thru Date
  - Contractor Daily Reports current \_\_\_\_\_
  - SWPPP site monitoring Report Forms current \_\_\_\_\_
  - Asbuilts current and verified by IOR \_\_\_\_\_
  - Construction and Demolition Waste Management Progress Reports \_\_\_\_\_
  - Prior Months Unconditional Releases from 1st Tier Subs \_\_\_\_\_
- Updated Project Schedule** submitted/reviewed \_\_\_\_\_
- Change Orders Board** approved
- Allowance Expenditures approved by District**
- Payment calculations correct**; line items reconciled with approved Schedule of Values and Accounting Verification Summary sheet included (2nd tab)

**The following REQUIRED documents are ATTACHED {w/docs in order listed}:**

- Contractor Payment Checklist**
- Accounting Verification Summary** (signed by CM)
- Stop Notice Summary Log**
- Application for Payment w SOV** (4 originals signed, 3 sent to District)
- Conditional Release from Prime Contractor and Subcontractor Release Log**
- Other:** \_\_\_\_\_

**ATTACH AND/OR VERIFY additional REQUIRED documents as needed:**

- Consent of Surety for Final Payment**
- Certificate of Substantial Completion** (ONLY Required for payment at Substantial Completion)
- Unconditional Waiver and Releases Upon Final Payment** (Contractor/Subcontractors)
- Warranties, guarantees and maintenance agreements**
- Training Program and M&O Books**
- Report of Completion & Recommendation of Acceptance** (w/ required attachments)
- Final Punchlist Acceptance (note any holds or contested items)**

ALL applicable items and/or documents referenced above have been verified by the Prime Contractor (and reviewed by the Construction Manager) and submitted in accordance with the contract documents. All items are considered precedent to Owner obligation to make payment under the Contract:

Project Manager/ <b>Contractor Name</b>	Signature	Date
Project Manager	Signature	Date

cc:

## APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval. This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the [DSA Forms](#) or [DSA Publications](#) webpages.

<b>1. SUBMITTAL TYPE: (Is this a resubmittal? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>)</b>			
Deferred Submittal <input type="checkbox"/>	Addendum Number: <u>2</u>	Revision Number:	CCD Number: _____ Category A <input type="checkbox"/> or B <input type="checkbox"/>
<b>2. PROJECT INFORMATION:</b>			
School District/Owner: <u>RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT</u>		DSA File Number: <u>30 C2</u>	
Project Name/School: <u>SANTIAGO CANYON COLLEGE CAMPUS ENTRANCE IMPROVEMENTS - PHASE</u>		DSA Application Number <u>04 121029</u>	
<b>3. APPLICANT INFORMATION:</b>			
Date Submitted: <u>01/03/23</u>		Attached Pages? No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Number of pages? <u>8</u>	
Firm Name: <u>SVA Architects, Inc.</u>		Contact Name: <u>Robert Simons</u>	
Work Email: <u>BSimons@sva-architects.com</u>		Work Phone: <u>(949) 809-3380</u>	
Firm Address: <u>6 Hutton Centre Drive, Suite 1150</u>		City: <u>Santa Ana</u>	State: <u>CA</u> Zip Code: <u>92707</u>
<b>4. REASON FOR SUBMITTAL: (Check applicable boxes)</b>			
<input checked="" type="checkbox"/> For revision or addendum prior to construction.		<input type="checkbox"/> For a project currently under construction.	
<input type="checkbox"/> For a project that has a form DSA 301-N: Notification of Requirement for Certification, DSA 301-P: Posted Notification of Requirement for Certification or a 90-Day Letter issued.			
<input type="checkbox"/> To obtain DSA approval of an existing uncertified building or buildings.			
<input type="checkbox"/> For Category B CCD this is: <input type="checkbox"/> a voluntary submittal, <input type="checkbox"/> a DSA required submittal (attach DSA notice requiring submission).			
<b>5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:</b>			
Name of the Design Professional In General Responsible Charge: <u>Robert Simons</u>			
Professional License Number: <u>C-18301</u>		Discipline: <u>Architecture</u>	
<b>Design Professional in General Responsible Charge Statement:</b> The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.			
Signature: _____		<i>Robert M. Simons</i>	
DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE			
<b>6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:</b>			
For addenda, revisions, or CCDs: CHECK THIS BOX <input checked="" type="checkbox"/> to confirm that <i>all</i> post-approval documents have been stamped and signed by the Responsible Design Professional listed on form DSA 1: Application for Approval of Plans and Specifications for this project. (For Deferred Submittals, refer to IR A-18: Use of Construction Documents Prepared by Other Professionals, and IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents, when applicable, for signature and seal requirements.)			
Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed): <u>Updated sheets CD-1.3, C-4.1 &amp; C-5.2 to remove an existing gate valve by adding a note and detail. Revised note on Landscape detail G/L-4.01 to use PVC SCH.40 and detail H to use SCH.80 nipple MIPT and slip match valve size. Added note on sheet L-501 to add root barrier at trees within 8-ft. of hardscape. Added note #4 on 6/L-6.01 to add 4-inch mulch layer. Updated the electrical sheets to add a note and detail to add addition security cameras.</u>			
List of DSA-approved drawings affected by this post-approval document: <u>Civil sheet(s): CD-1.3, C-4.1, C-5.2, Landscape sheets: L-4.01, L-5.01, L-6.01 and Electrical Sheet(s): E-103 and E-501</u>			

DSA USE ONLY		
SSS <u>LR</u> Date <u>01/04/2023</u> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input type="checkbox"/> Not Required Comments: _____  FLS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____  ACS _____ Date _____ <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved <input checked="" type="checkbox"/> Not Required Comments: _____	<b>Returned</b> Date: <u>01/04/2023</u> By: <u>DP</u>	<b>DSA STAMP</b> APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121029 INC: REVIEWED FOR SS <input checked="" type="checkbox"/> FLS <input type="checkbox"/> ACS <input type="checkbox"/> DATE: <u>01/04/2023</u>



**SHEET NOTES:**

- FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- EXISTING INFORMATION SHOWN HEREIN WERE TAKEN FROM EXISTING AS-BUILT DOCUMENTS PROVIDED BY THE DISTRICT. UNDERGROUND UTILITY SURVEY AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT AND THE ENGINEER BEFORE ANY WORK SHALL COMMENCE.
- FOR EXISTING CONDITIONS, SEE "TOPOGRAPHIC SURVEY" PROVIDED BY HUITT-ZOLLARS (10/29/20) - JOB# R306455.01 AND "TOPOGRAPHIC SURVEY MAP" PROVIDED BY CANNON (4/2/21) - JOB# 16035.00.
- FOR EXISTING UTILITIES, SEE "GROUND PENETRATION RADAR (GPR) PLAN" PROVIDED BY ULTRA ENGINEERING (10/29/20).

**UTILITY SURVEYOR INFORMATION:**

PREPARED BY:  
ULTRA ENGINEERING  
2323 NORTH BROADWAY, SANTA ANA, CA 92706  
PHONE : (951) 223-3552

**NOTES:**

- DATE OF GPR FIELD SURVEY:  
MARCH 18-26, 2019
- DEPTHS SHOWN ARE APPROXIMATE. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE FACILITY, INVERT OF WASTE LINES, OR TO THE FACILITY TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE FACILITY.
- THE SCOPE OF THIS SURVEY DOES NOT INCLUDE FACILITY SIZE OR NUMBER OF CONDUIT IN MULTIPLE CONDUIT RUNS. IRRIGATION LINES ARE NOT INCLUDED IN THE SURVEY.
- THE BACKGROUND SITE PLAN USED IN PREPARING THIS MAP WAS PREPARED BY OTHERS AND PROVIDED TO ULTRA ENGINEERING BY THE CLIENT. ULTRA ENGINEERING MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE PLAN.

**REMOVAL NOTES:**

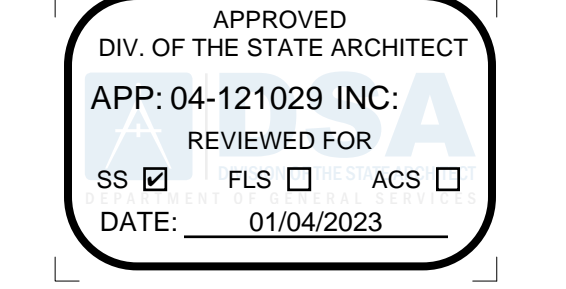
- REMOVE AND RELOCATE EXISTING LIGHT POLE. DISCONNECT AND REMOVE LIGHT FIXTURE, DEMOLISH AND REMOVE WIRING BACK TO NEAREST PULL BOX. MAINTAIN BRANCH CIRCUIT/CONTROL CIRCUIT CONTINUITY FOR ALL DOWN STREAM AND/OR ADJACENT DEVICES TO REMAIN SEE LANDSCAPE AND ELECTRICAL DRAWINGS E-102 FOR NEW FIXTURE LOCATIONS.
- REMOVE AND RELOCATE EXISTING FIRE HYDRANT. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING BACKFLOW PREVENTER. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING FIRE DEPARTMENT CONNECTION. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING POST INDICATOR VALVE. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING ELECTRICAL PULLBOX PER ELECTRICAL DRAWINGS.
- REMOVE EXISTING WATER VALVE AND PROVIDE NEW BRASS PIPE CONNECTION PER DETAIL 3 ON SHEET C-5.3.
- DEMOLISH WIRING BACK TO LANDSCAPING AND INSTALL NEW UNDERGROUND 11X17 PULL BOX.
- REMOVE AND RELOCATE EXISTING HOSE BIBB RISER. SEE UTILITY PLANS FOR NEW LOCATION.

**PROTECT-IN-PLACE NOTES:**

- PROTECT IN PLACE EXISTING BUILDING, FOOTINGS, AND ALL APPURTENANCES IN ITS ENTIRETY.
- PROTECT IN PLACE EXISTING LIGHT POLE.
- PROTECT IN PLACE EXISTING MANHOLE. ADJUST TO NEW DESIGN GRADE.
- PROTECT IN PLACE EXISTING VAULT. ADJUST TO NEW DESIGN GRADE.
- PROTECT IN PLACE EXISTING WATER VALVE. ADJUST TO NEW DESIGN GRADE.
- PROTECT IN PLACE EXISTING FIRE ALARM VAULT.
- PROTECT IN PLACE EXISTING COMMUNICATION VAULT.
- PROTECT IN PLACE EXISTING ELECTRICAL VAULT.
- PROTECT IN PLACE EXISTING UTILITY PULLBOX. ADJUST TO NEW DESIGN GRADE AND REPLACE WITH TRAFFIC RATED COVER.
- PROTECT IN PLACE EXISTING STORM DRAIN LINE.
- PROTECT IN PLACE EXISTING SANITARY SEWER LINE.
- PROTECT IN PLACE EXISTING WATER LINE.
- PROTECT IN PLACE EXISTING ELECTRICAL LINE.
- PROTECT IN PLACE EXISTING SITE LIGHT LINE.
- PROTECT IN PLACE EXISTING COMMUNICATION LINE.
- PROTECT IN PLACE EXISTING GAS LINE.
- PROTECT IN PLACE EXISTING UNKNOWN UTILITY LINE.
- PROTECT IN PLACE EXISTING SANITARY SEWER CLEANOUT. REPLACE EXISTING LID WITH NEW TRAFFIC LOADED LID. ADJUST TO NEW GRADE.
- PROTECT IN PLACE EXISTING ELECTRICAL VAULT. ADJUST TO NEW DESIGN GRADE PER ELECTRICAL DRAWINGS.
- PROTECT IN PLACE EXISTING UNKNOWN UTILITY VALVE.
- PROTECT IN PLACE EXISTING CATCH BASIN AND MANHOLE. ADJUST MANHOLE LID TO NEW DESIGN ELEVATIONS AS NEEDED.
- PROTECT IN PLACE EXISTING FIRE DEPARTMENT CONNECTION VALVE.
- PROTECT IN PLACE EXISTING FIRE HYDRANT.
- PROTECT IN PLACE EXISTING UTILITY MANHOLE.
- PROTECT AND PLACE EXISTING POST INDICATOR VALVE.
- PROTECT IN PLACE EXISTING WATER VALVES.
- PROTECT IN PLACE EXISTING BACKFLOW PREVENTER.
- PROTECT IN PLACE EXISTING IRRIGATION CONTROL VALVE.

**LEGENDS AND ABBREVIATIONS:**

- LIMIT OF REMOVAL - - - - -
- ELECTRICAL - E - - - - -
- GAS - C - - - - -
- SEWER - SS - - - - -
- SITE LIGHT - SL - - - - -
- STORM DRAIN - SD - - - - -
- POSSIBLE LINE - U - - - - -
- LOCATION (UNKNOWN) - TEL - - - - -
- TEL/COMM - TEL - - - - -
- WATER - W - - - - -
- DEPTH FROM SURFACE - 1'-6" - - - - -
- DIA. OF PIPE - - - - -
- EOS = END OF SIGNAL
- FDC = FIRE DEPARTMENT CONNECTION
- NA = NO ACCESS
- NLP = NO LONGER PUSH
- NT = NO TONE
- OFFSET FROM REFERENCE - - - - -

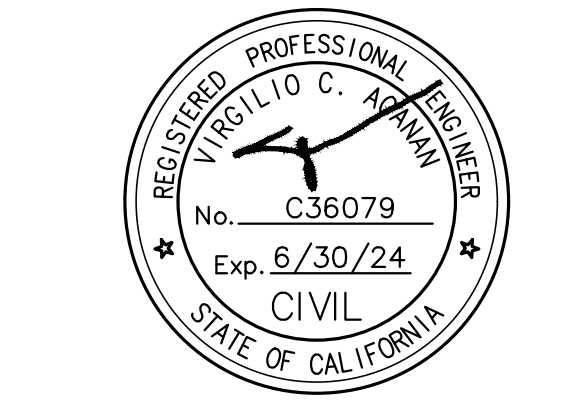


**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**

**SANTIAGO CANYON COLLEGE**

**CAMPUS ENTRANCE IMPROVEMENTS PROJECT - PHASE 1**

8045 E. Chapman Avenue, Orange, CA 92669



**REVISIONS:**

NO.	DESCRIPTION	DATE
1	ADDENDUM 2	01/03/2023

**DATE ISSUED:** 2018-11-19

**PROJECT NO:** 2018-40167

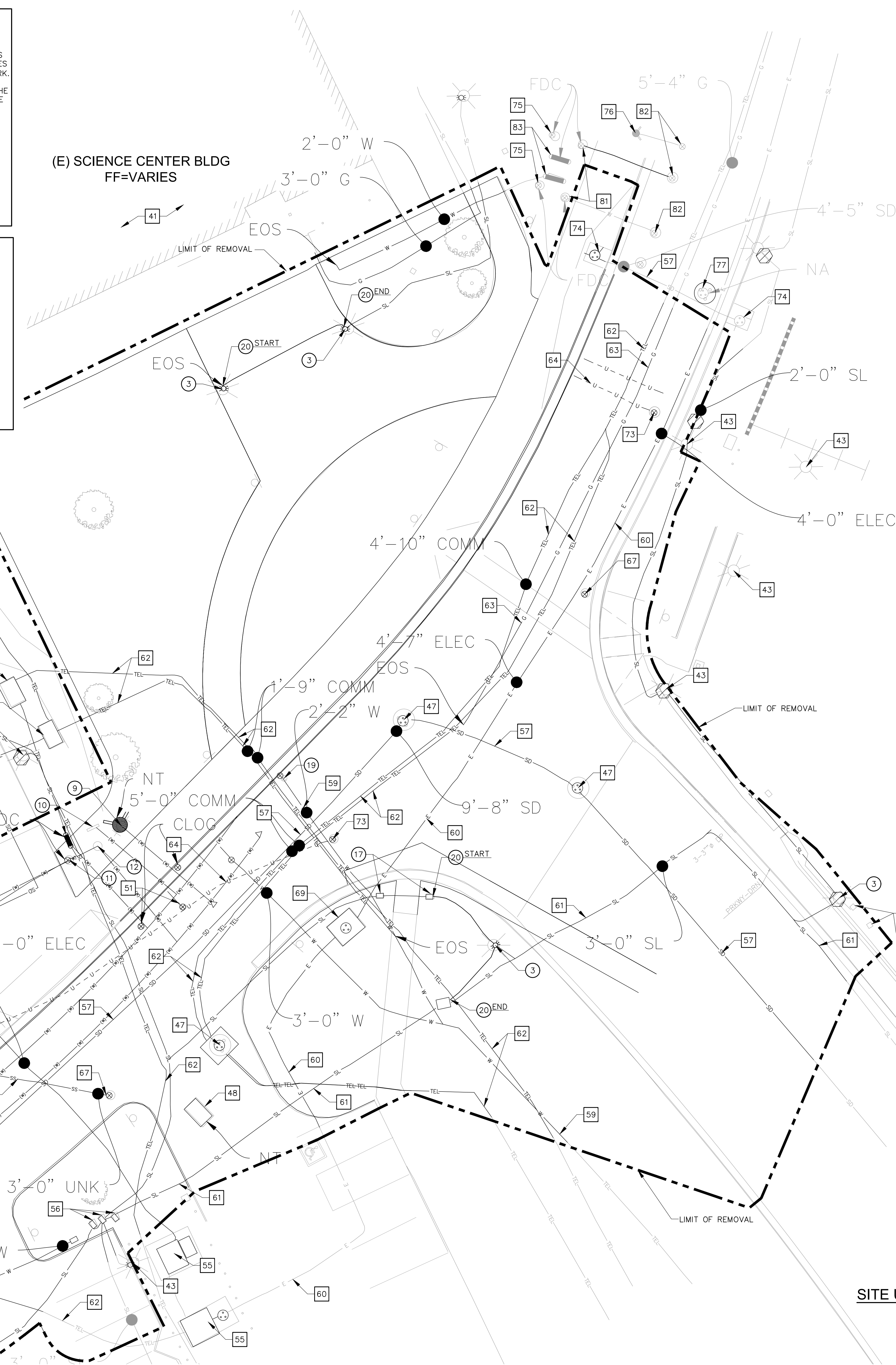
**DSA APPLICATION NO:** 04-121029

**SCALE:** As indicated

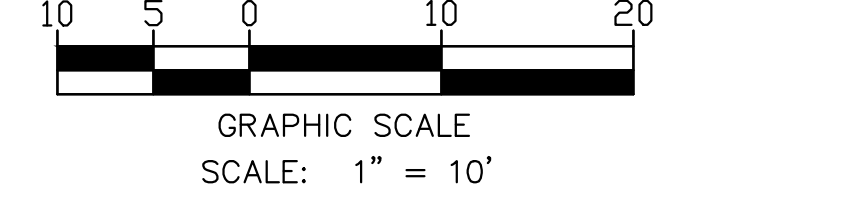
**SHEET NUMBER:** CD-1.3

**SHEET TITLE:**

**SITE UTILITY DEMOLITION PLAN**



**SITE UTILITY DEMOLITION PLAN**

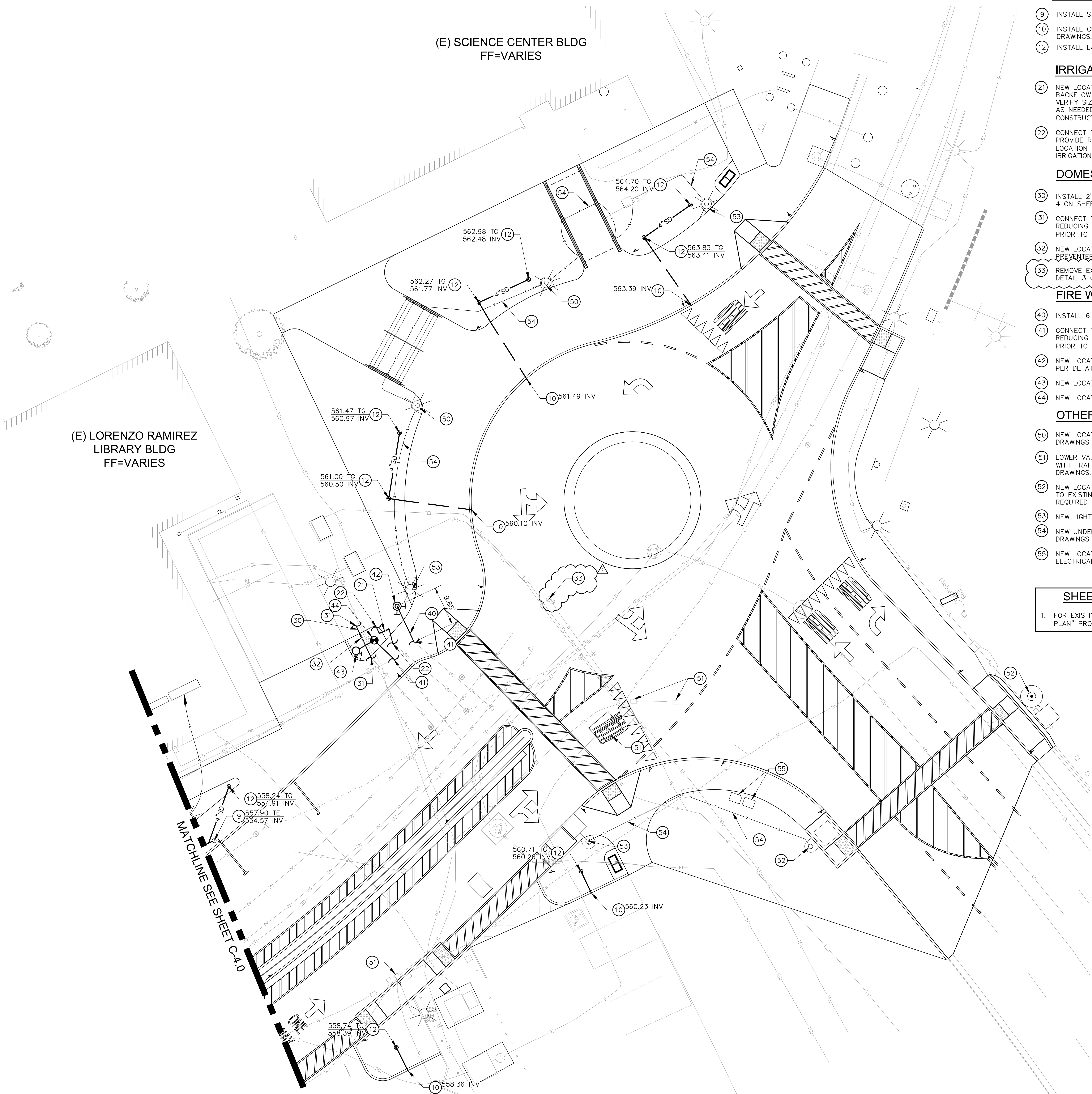


MATCHLINE SEE SHEET CD-1.0



(E) SCIENCE CENTER BLDG  
 FF=VARIES

(E) LORENZO RAMIREZ  
 LIBRARY BLDG  
 FF=VARIES



**STORM DRAIN:**

- 9 INSTALL STORM DRAIN CLEANOUT PER DETAIL 4 ON SHEET C-5.2.
- 10 INSTALL CURB DRAIN PER DETAIL 7 ON SHEET C-5.2 AND PER LANDSCAPE DRAWINGS.
- 12 INSTALL LANDSCAPE AREA DRAIN PER LANDSCAPE DRAWINGS.

**IRRIGATION WATER:**

- 21 NEW LOCATION OF EXISTING IRRIGATION WATER REDUCED PRESSURE BACKFLOW PREVENTER. CONNECT TO EXISTING ON-SITE FIRE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF IRRIGATION WATER SYSTEM.
- 22 CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF IRRIGATION WATER SYSTEM.

**DOMESTIC WATER:**

- 30 INSTALL 2" COPPER PIPE TYPE K TUBING FOR DOMESTIC WATER LINE PER DETAIL 4 ON SHEET C-5.1. SEE PLAN FOR SIZES
- 31 CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF DOMESTIC WATER SYSTEM.
- 32 NEW LOCATION OF EXISTING DOMESTIC WATER REDUCED PRESSURE BACKFLOW PREVENTER.
- 33 REMOVE EXISTING WATER VALVE AND PROVIDE NEW BRASS PIPE CONNECTION PER DETAIL 3 ON SHEET C-5.3.

**FIRE WATER:**

- 40 INSTALL 6" AWWA C900 FIRE WATER LINE. PER DETAIL 4 ON SHEET C-5.1.
- 41 CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF FIRE WATER SYSTEM.
- 42 NEW LOCATION OF EXISTING FIRE HYDRANT. INSTALL HYDRANT WITH THRUSTBLOCK PER DETAIL 1 ON SHEET C-5.3.
- 43 NEW LOCATION OF EXISTING FIRE DEPARTMENT CONNECTION.
- 44 NEW LOCATION OF EXISTING POST INDICATOR VALVE.

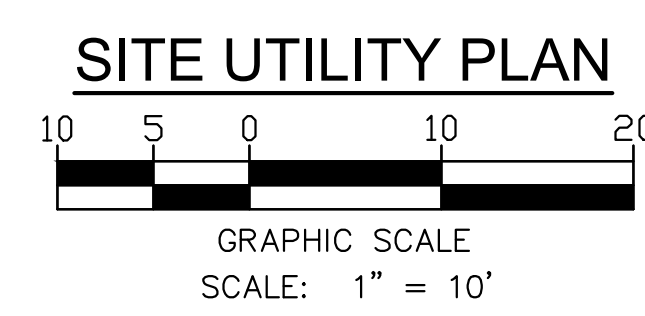
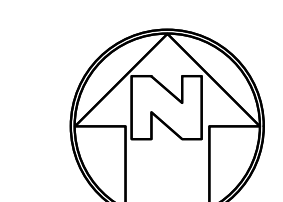
**OTHER:**

- 50 NEW LOCATION OF EXISTING LIGHT POLE PER ELECTRICAL DRAWINGS.
- 51 LOWER VAULT /PULL BOXES TO STREET LEVEL AND REPLACE WITH TRAFFIC RATED COVER AS REQUIRED PER ELECTRICAL DRAWINGS.
- 52 NEW LOCATION OF RELOCATED EXISTING LIGHT POLE. CONNECT TO EXISTING CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED PER ELECTRICAL DRAWINGS.
- 53 NEW LIGHT POLE PER ELECTRICAL DRAWINGS.
- 54 NEW UNDERGROUND ELECTRICAL LINE PER ELECTRICAL DRAWINGS.
- 55 NEW LOCATION OF RELOCATED ELECTRICAL PULL BOX PER ELECTRICAL DRAWINGS.

**SHEET NOTES:**

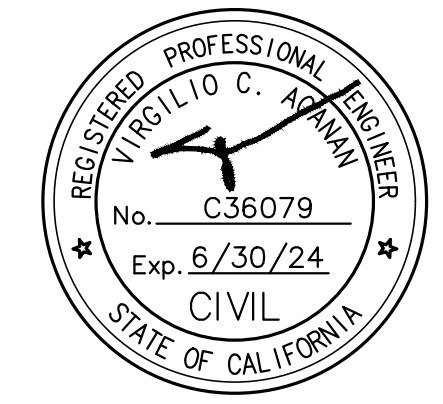
- 1. FOR EXISTING UTILITIES, SEE "GROUND PENETRATION RADAR (GPR) PLAN" PROVIDED BY ULTRA ENGINEERING (10/29/20).

MATCHLINE SEE SHEET C-4.0



RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
 CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
 PHASE 1  
 8045 E. Chapman Avenue, Orange, CA 92869



**REVISIONS:**

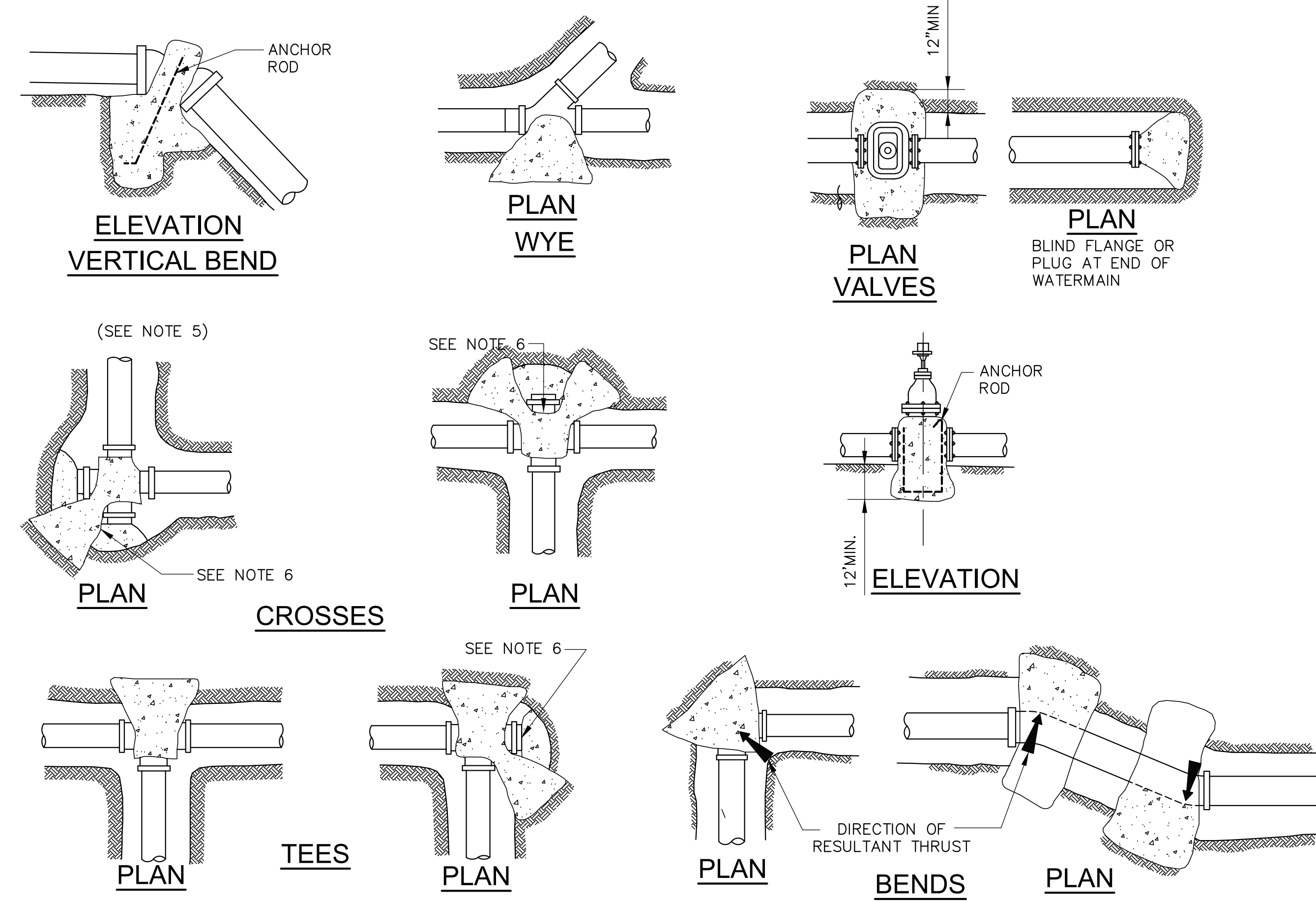
NO.	DESCRIPTION	DATE
1	ADDENDUM 2	01/03/2023

DATE ISSUED: 2018-11-19  
 PROJECT NO: 2018-40167  
 DSA APPLICATION NO: 04-121029  
 SCALE: As indicated  
 SHEET NUMBER: C-4.1  
 SHEET TITLE:

**SITE UTILITY PLAN**







**TABLE 1**  
MINIMUM BEARING AREAS IN SQ.FT.

MAIN SIZE	TEE	90° BEND	45° BEND	22 1/2° BEND
6"	4	4	4	3
8"	5	7	4	3
10"	9	12	6	4
12"	12	16	9	6

BASED ON 150 PSI W.W.R. PRESSURE & SOIL BEARING LOADS OF 2000 PSF THE RATIO OF WIDTH TO HEIGHT SHALL NOT EXCEED 1 1/2 TO 1  
TEES, PLUGS, CAPS & HYDRANTS.

**TABLE II**

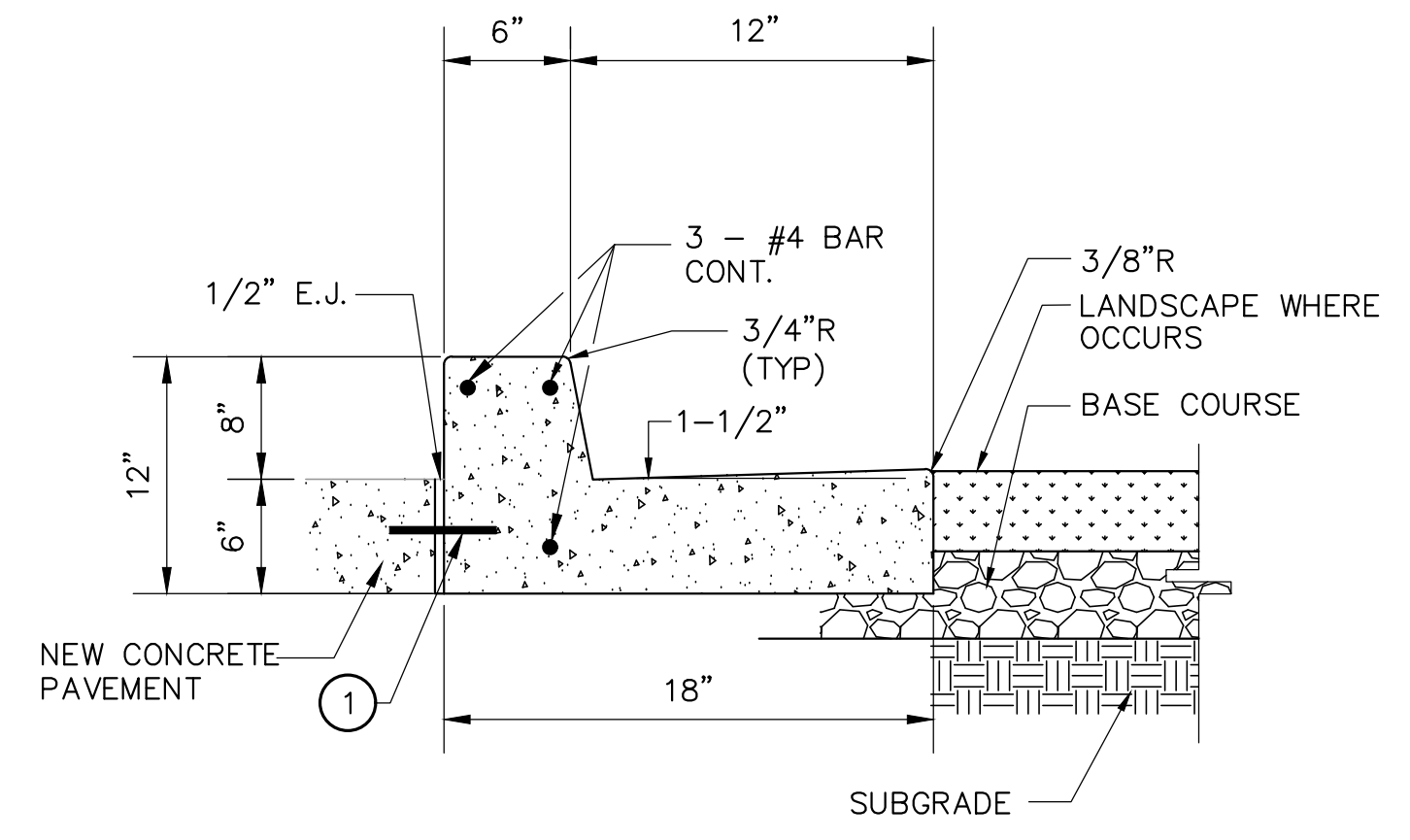
SOIL TYPE	MAX. ALLOWABLE SOIL BEARING VALUES	FACTORS FOR INCREASING AREAS IN TABLE 1
LOOSE SAND	500 PSF	4
SOFT SANDY CLAY	1000 PSF	2
ADOBE	1000 PSF	2
COMPACT FINE SAND	2000 PSF	1
COMPACT COARSE SAND	2000 PSF	1
MEDIUM STIFF CLAY	2000 PSF	1

\* THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SAFE SOIL BEARING VALUES AND SIZE OF BEARING AREAS. BASED ON 2 FEET MINIMUM DEPTH OF COVER OVER THE PIPE.

**NOTES:**

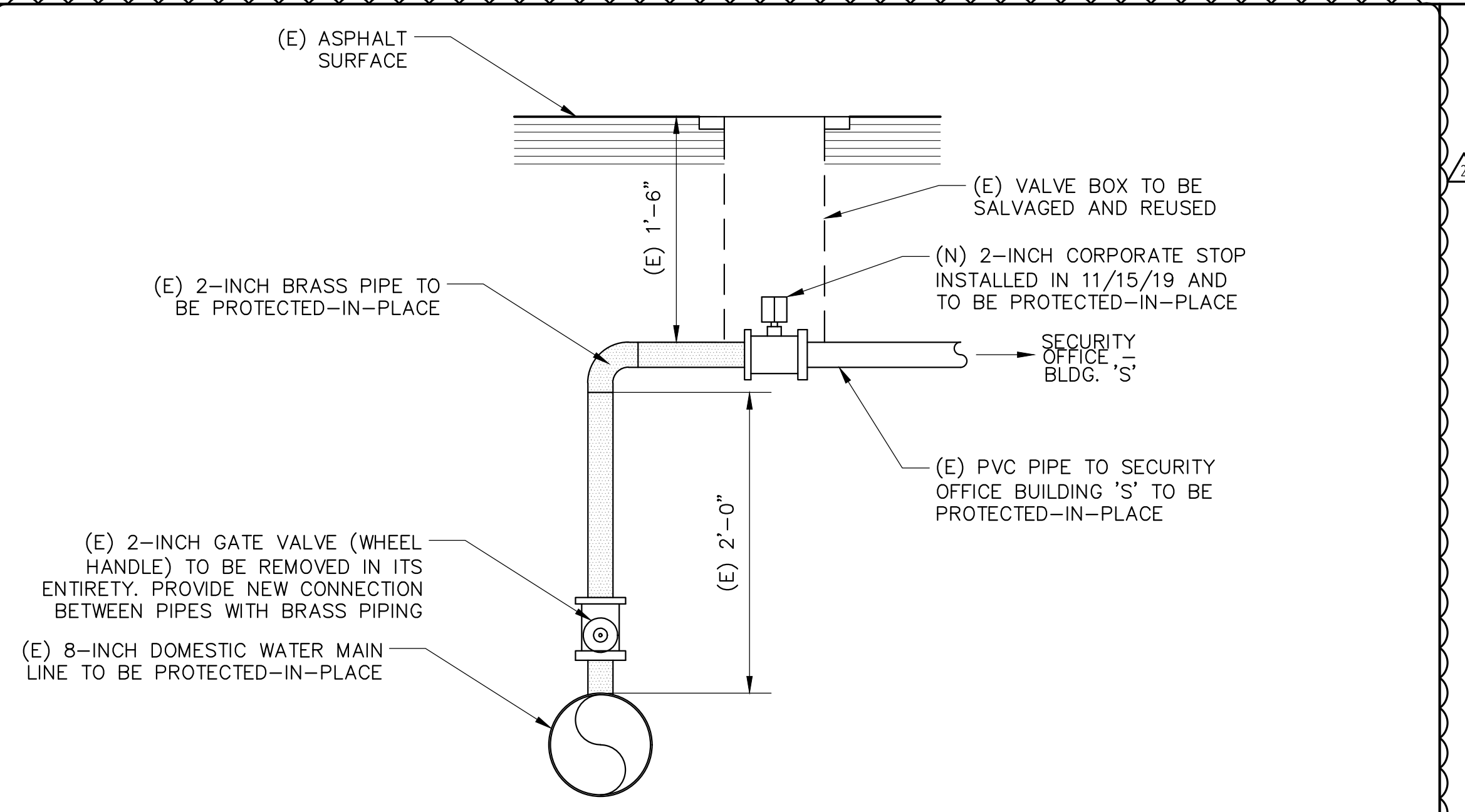
1. ALL ANCHOR AND THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
2. MINIMUM ALLOWABLE WATER PRESSURE FOR DESIGN OF THRUST BLOCKS IS 150 PSI. BEARING AREA INCREASE IN PRESSURE.
3. ALL CONCRETE USED IN THRUST BLOCKS SHALL ATTAIN 2000 PSI STRENGTH.
4. ALL ANCHOR RODS SHALL BE REINFORCING STEEL AND A MINIMUM OF 1/2-INCH IN DIAMETER.
5. USE ANCHOR BLOCKS AT VERTICAL BENDS WHEN PIPE IS ABOVE OR BELOW GROUND. SIZE OF BLOCK AND ROD SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER IN THE FIELD.
6. USE 30 POUND FELT TO INSURE COLD JOINT.
7. CONCRETE SHALL NOT COME INTO DIRECT WITH ASBESTOS CEMENT PIPE.
8. FOR PIPE 14" IN DIAMETER OR LARGER ENGINEER IS TO SUBMIT CALCULATIONS.

1 THRUST BLOCK DETAIL  
NOT TO SCALE



**NOTE:**  
1. 18" #4 REBAR W/ 'SPEED DOWEL' @ 36" OC, CENTER IN CONC. AT COLD JOINTS & E.J.'S

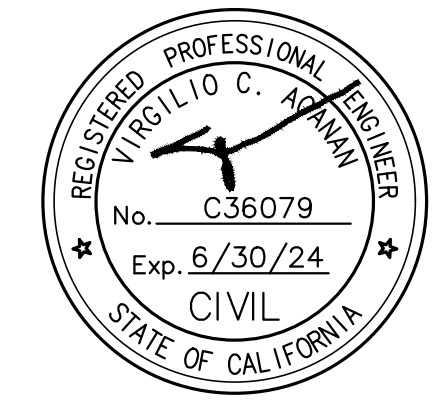
2 CONCRETE CURB AND 12" GUTTER DETAIL  
NOT TO SCALE



**NOTE:**  
1. PRIOR TO COMMENCING WORK, CONTRACTOR TO COORDINATE WITH DISTRICT PM TO REVIEW REMOVAL OF GATE VALVE AND INSTALLATION OF PIPE TO MAINTAIN WATER CONNECTION.

3 WATER VALVE REMOVAL DETAIL  
NOT TO SCALE

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
  
**SANTIAGO CANYON COLLEGE**  
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 8045 E. Chapman Avenue, Orange, CA 92669



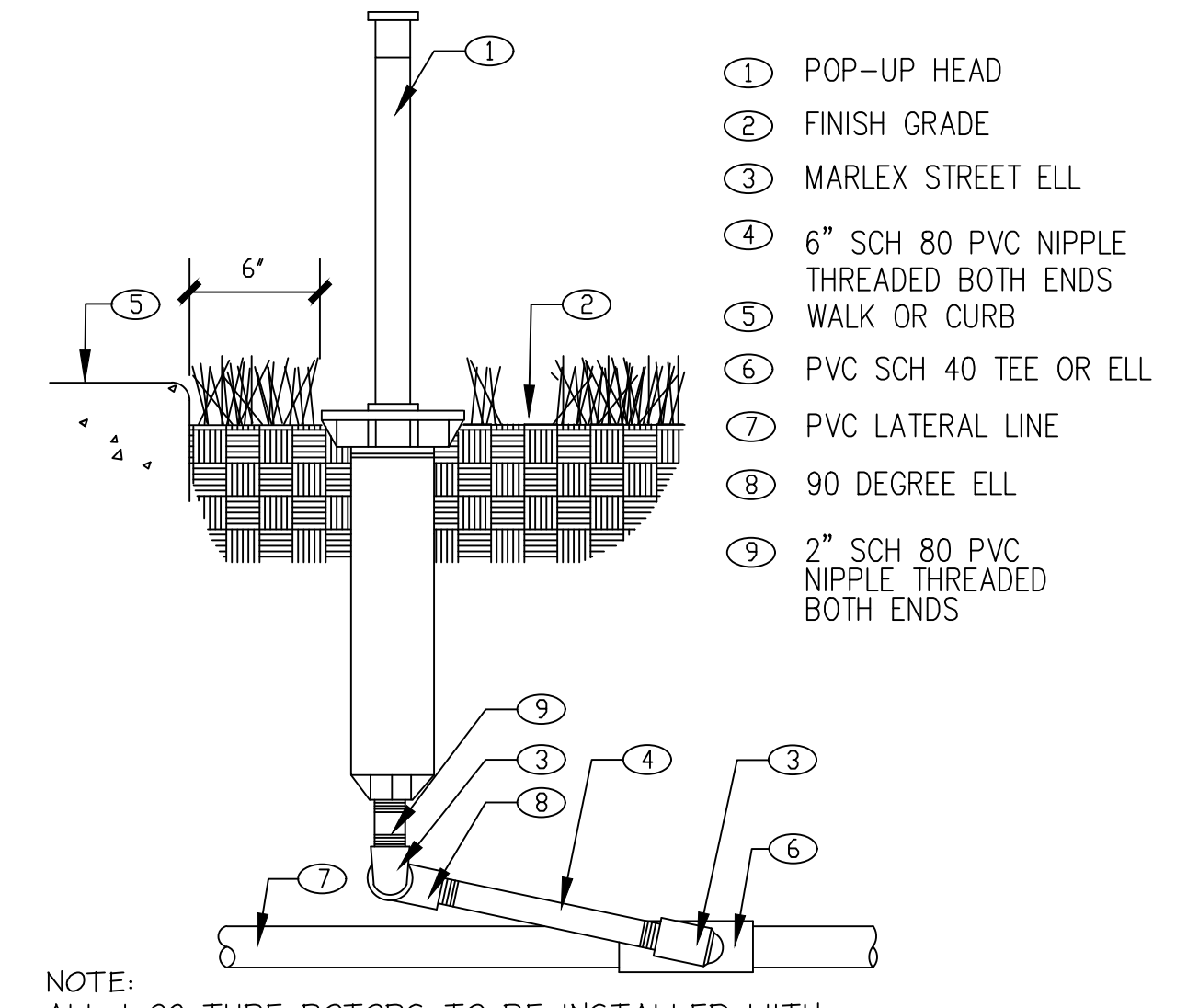
**REVISIONS:**

NO.	DESCRIPTION	DATE
1	ADDENDUM 2	01/03/2023

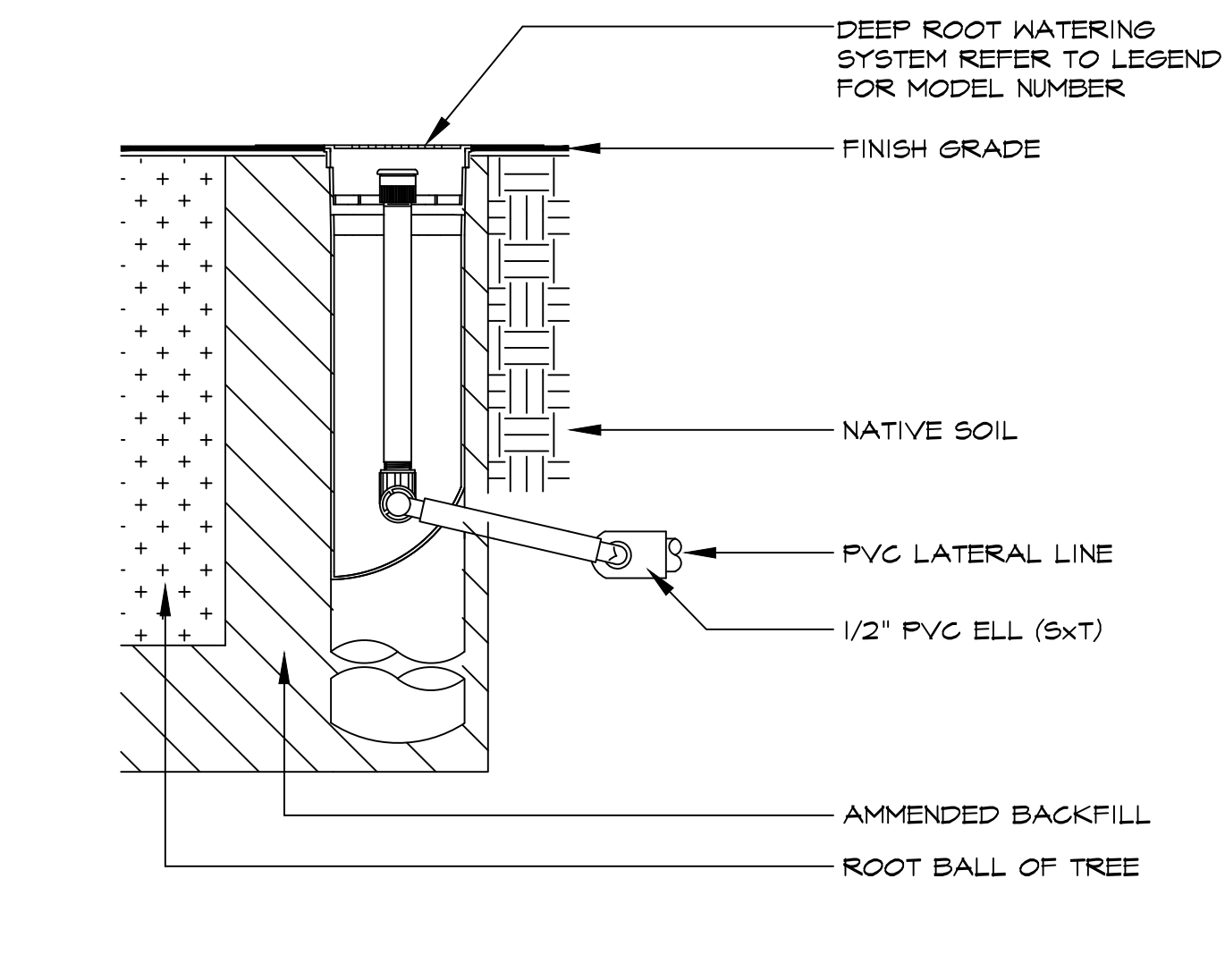
**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** C-5.3  
**SHEET TITLE:**

**MISCELLANEOUS DETAILS**

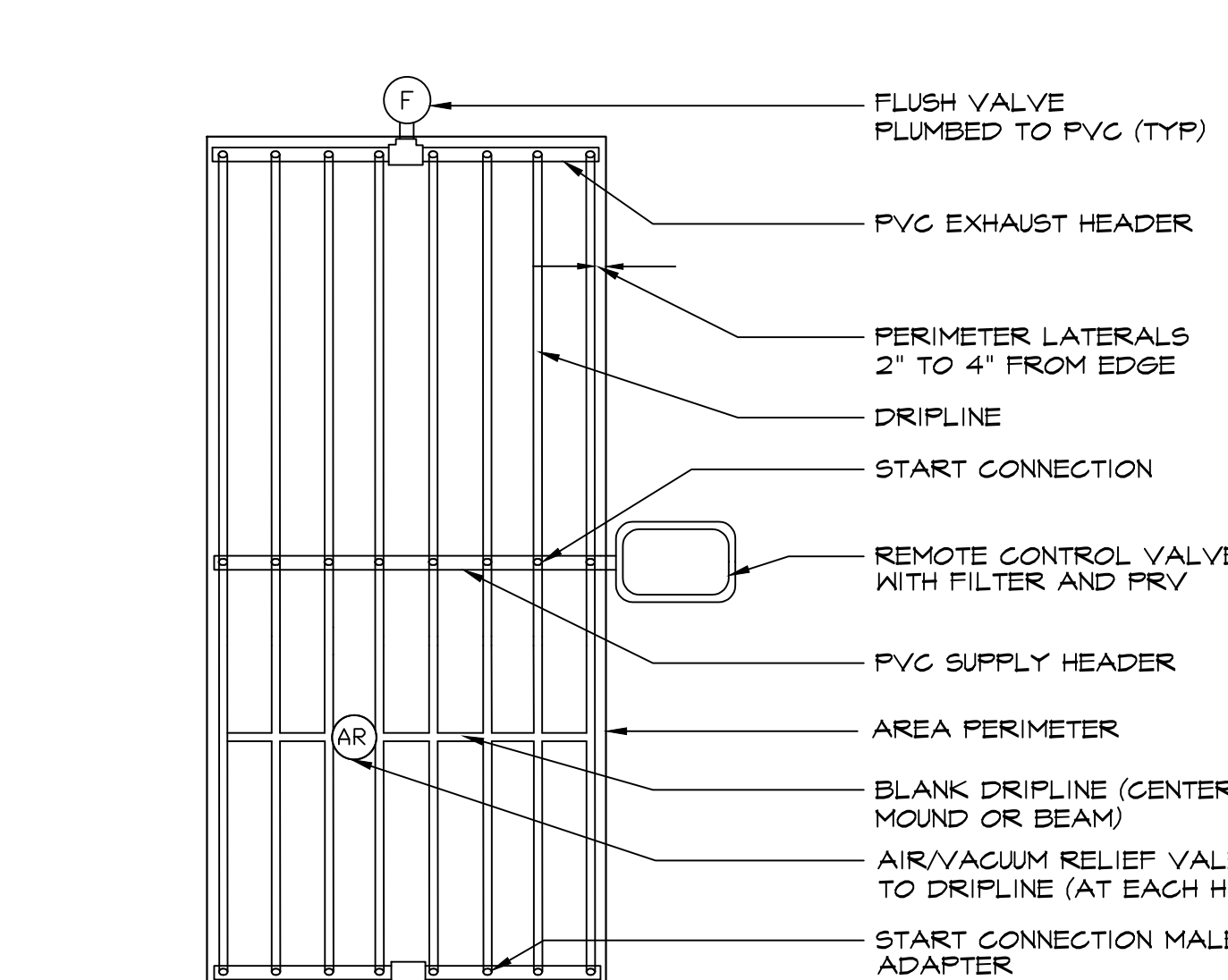




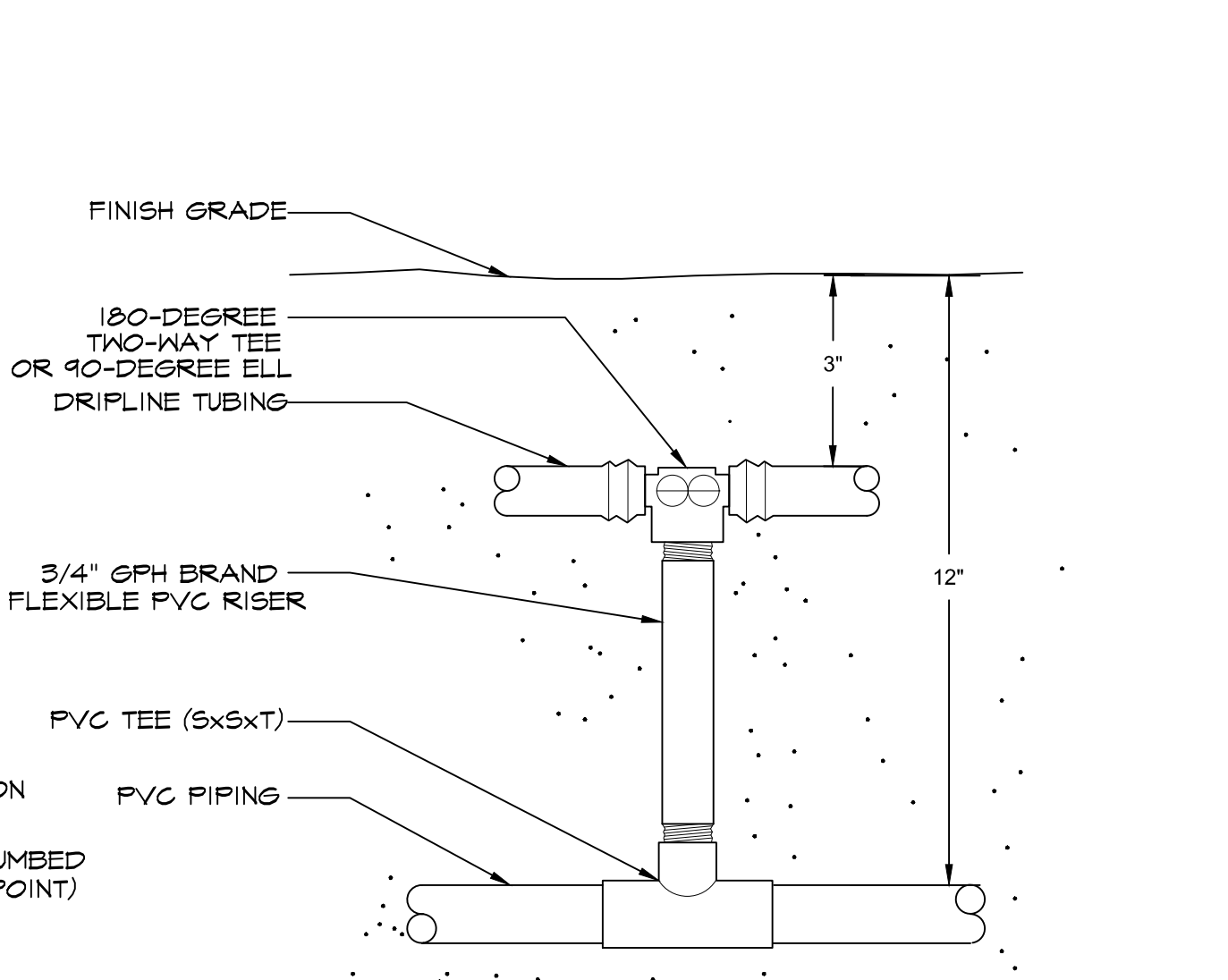
**A** POP UP SPRINKLER  
N.T.S.



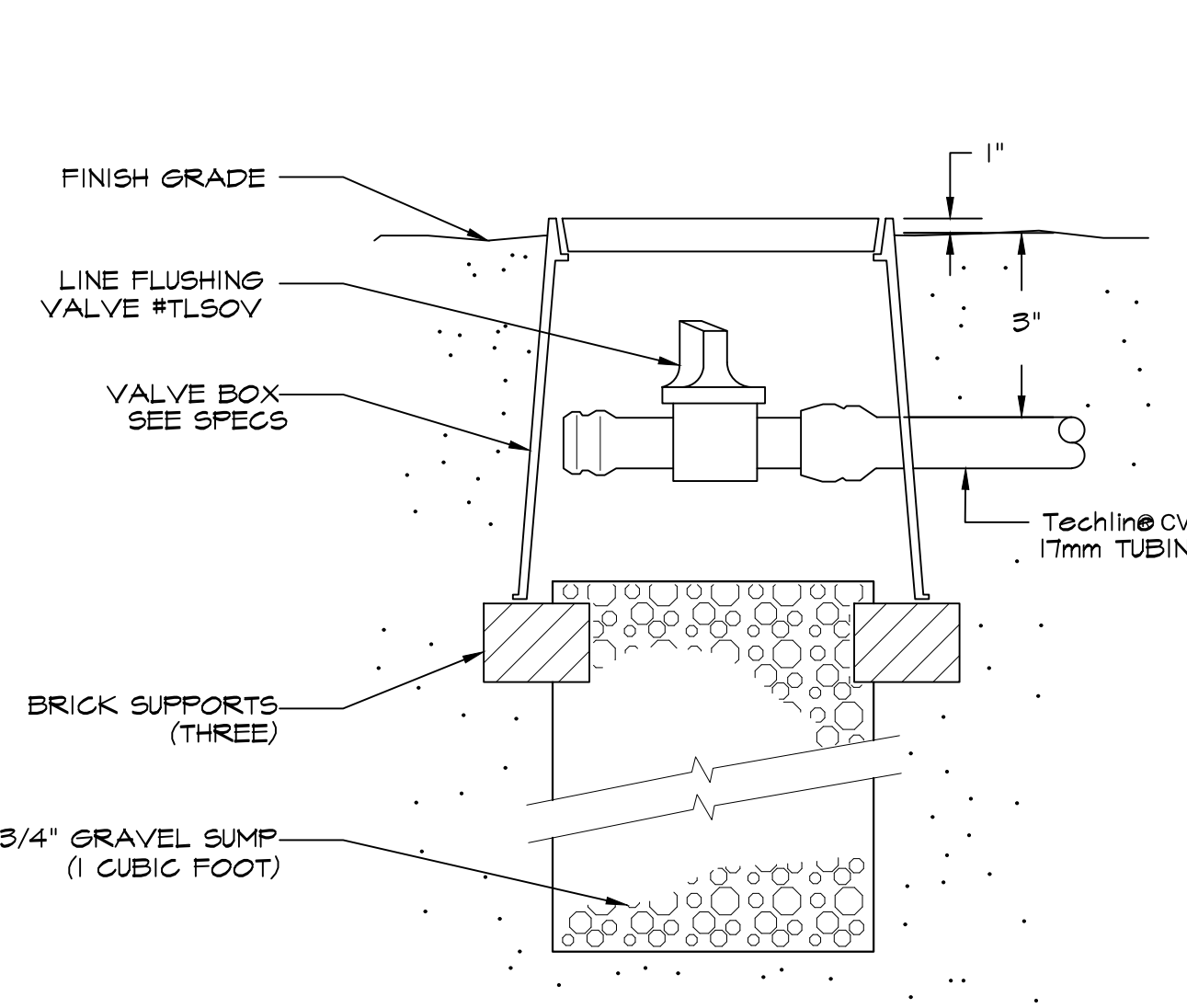
**B** DEEP ROOT TREE BUBBLERS  
N.T.S.



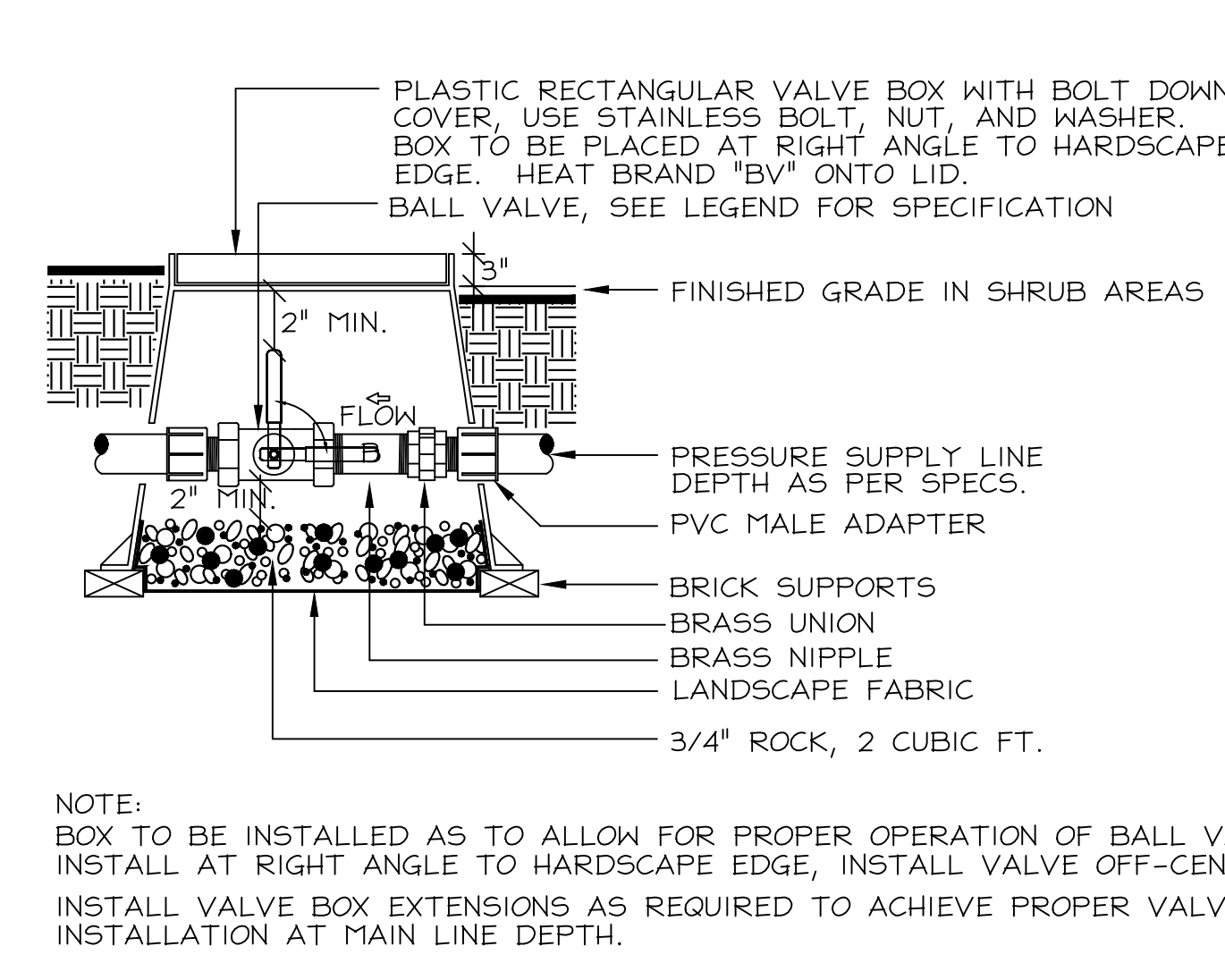
**C** DRIP TUBING LAYOUT  
N.T.S.



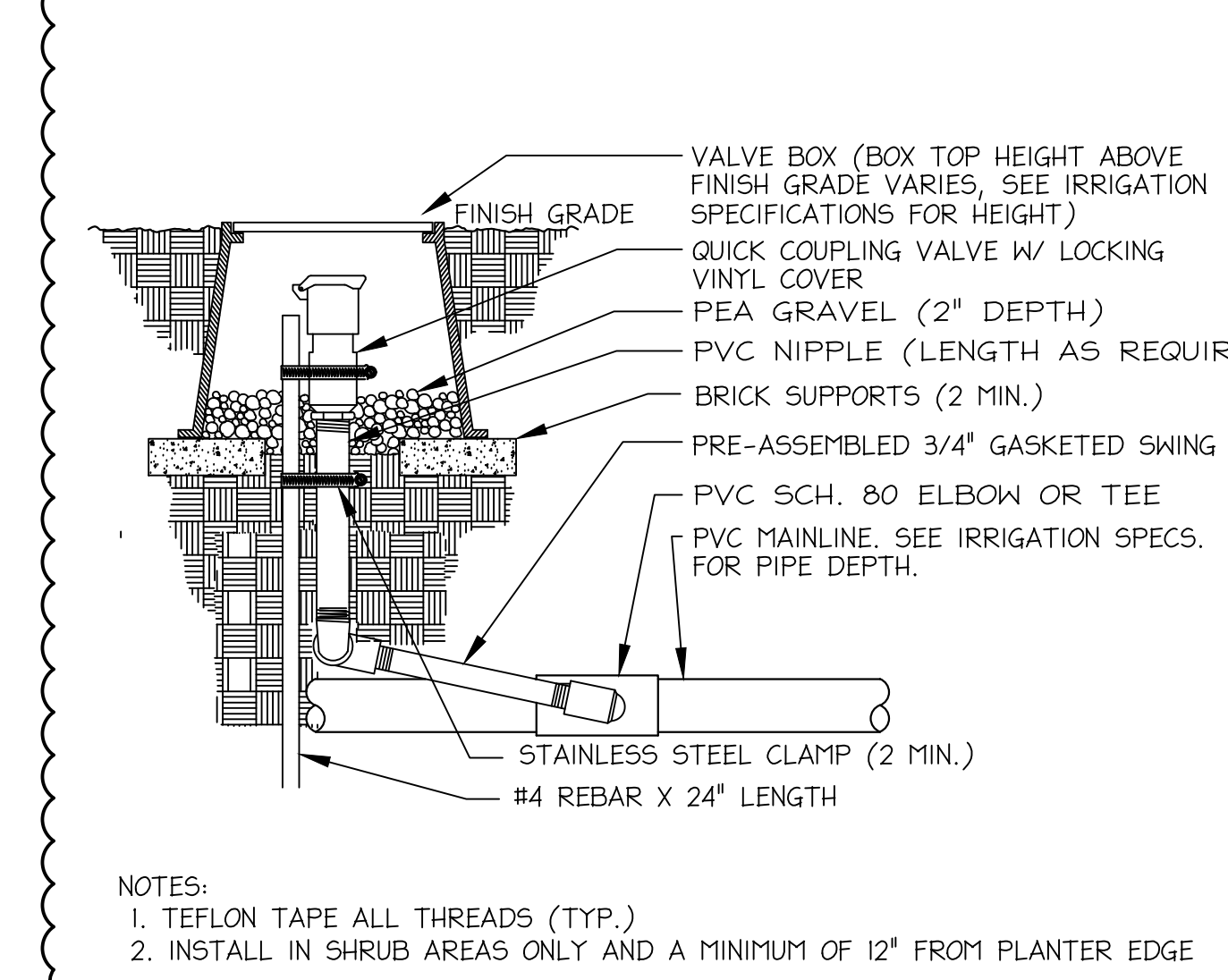
**D** DRIP TUBING START CONNECTION  
N.T.S.



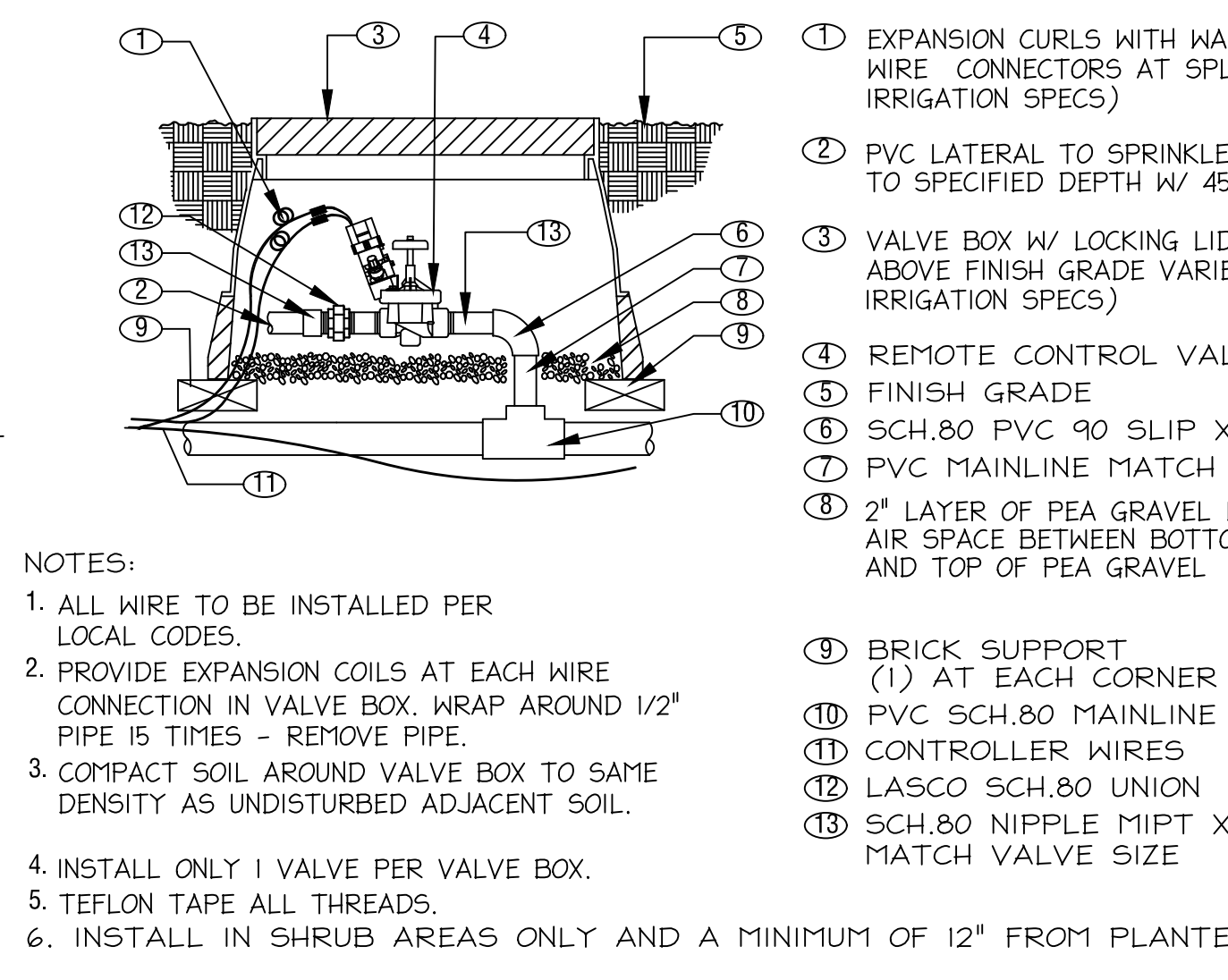
**E** DRIP FLUSH VALVE  
N.T.S.



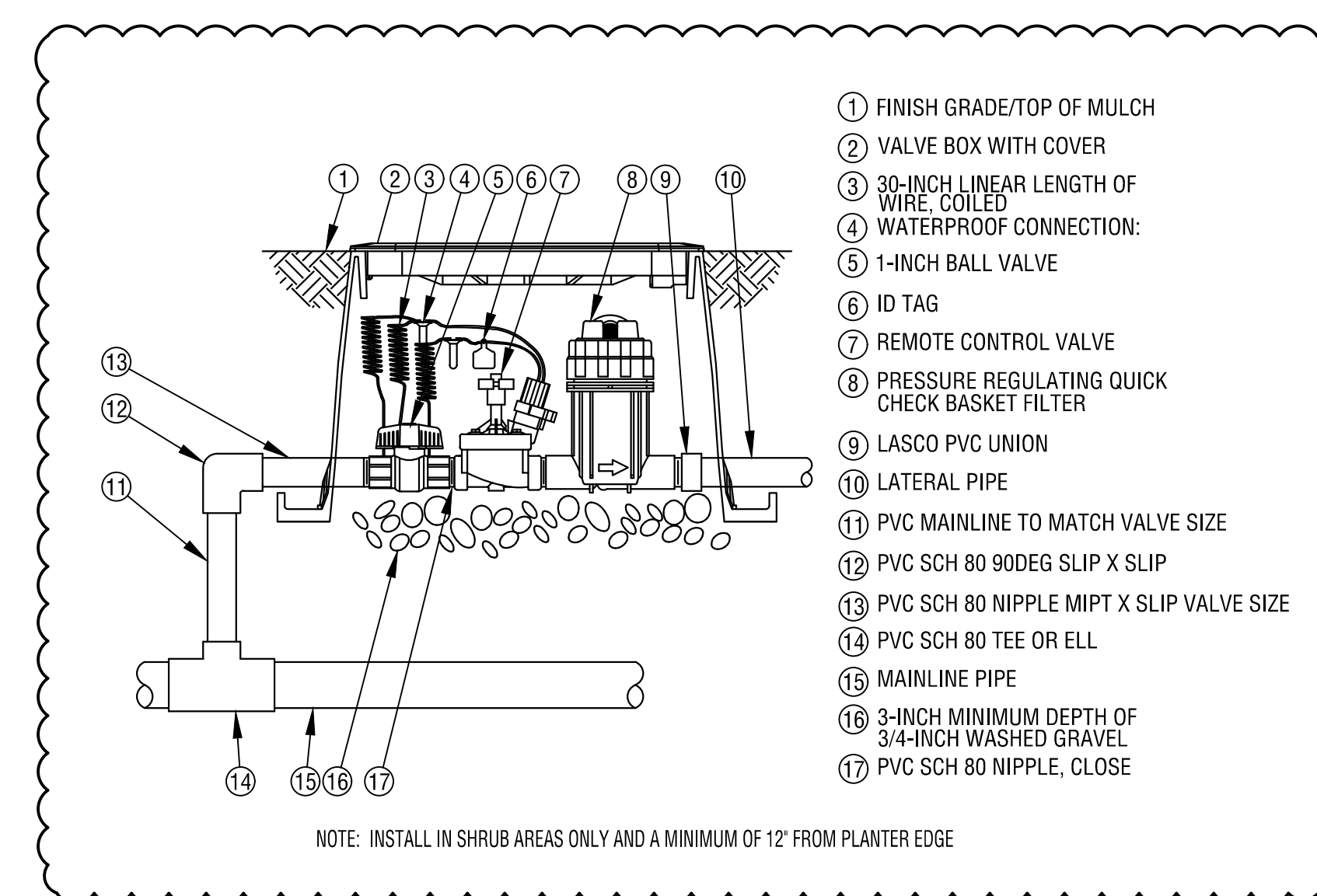
**F** BALL VALVE  
N.T.S.



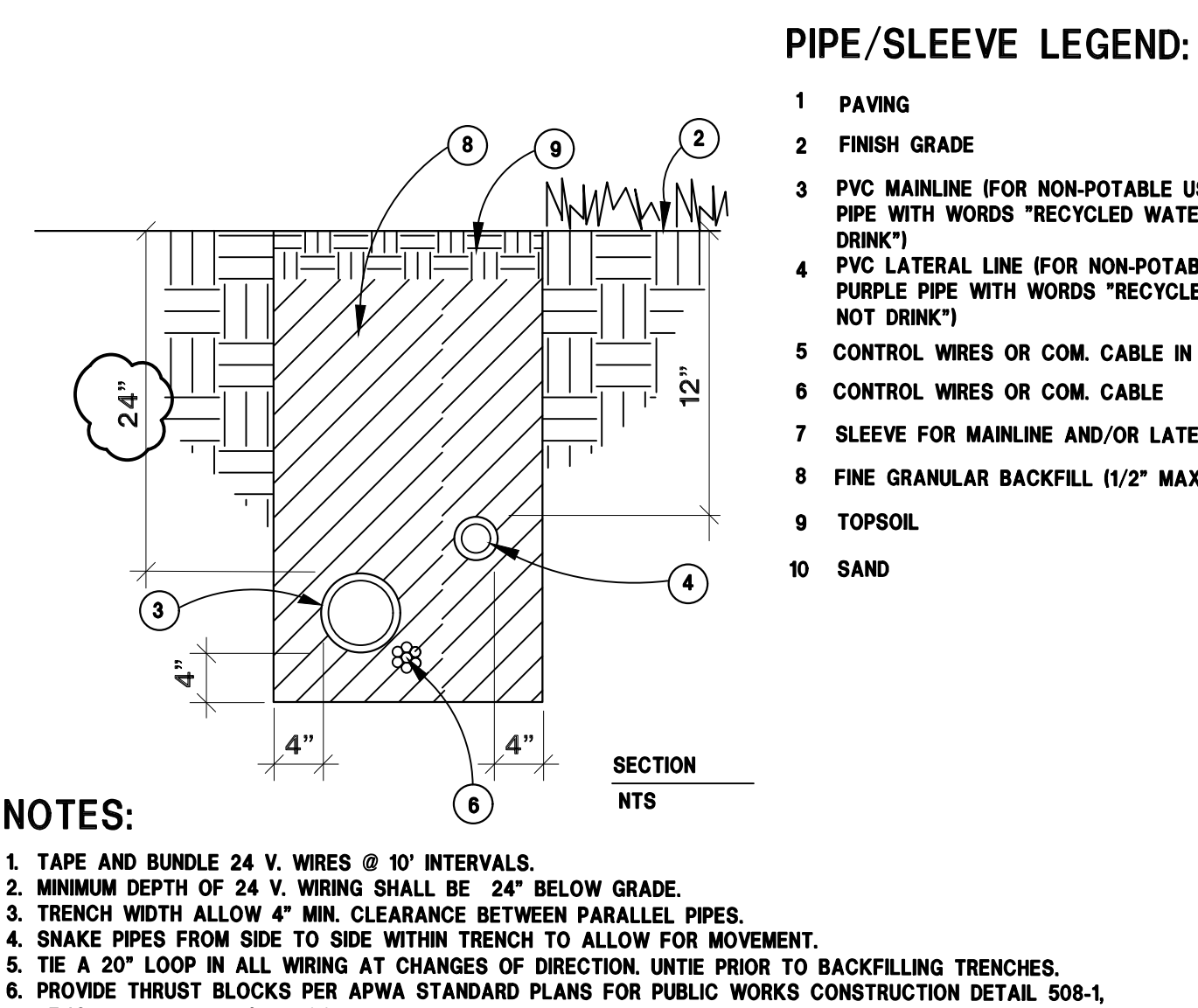
**G** QUICK COUPLER VALVE  
N.T.S.



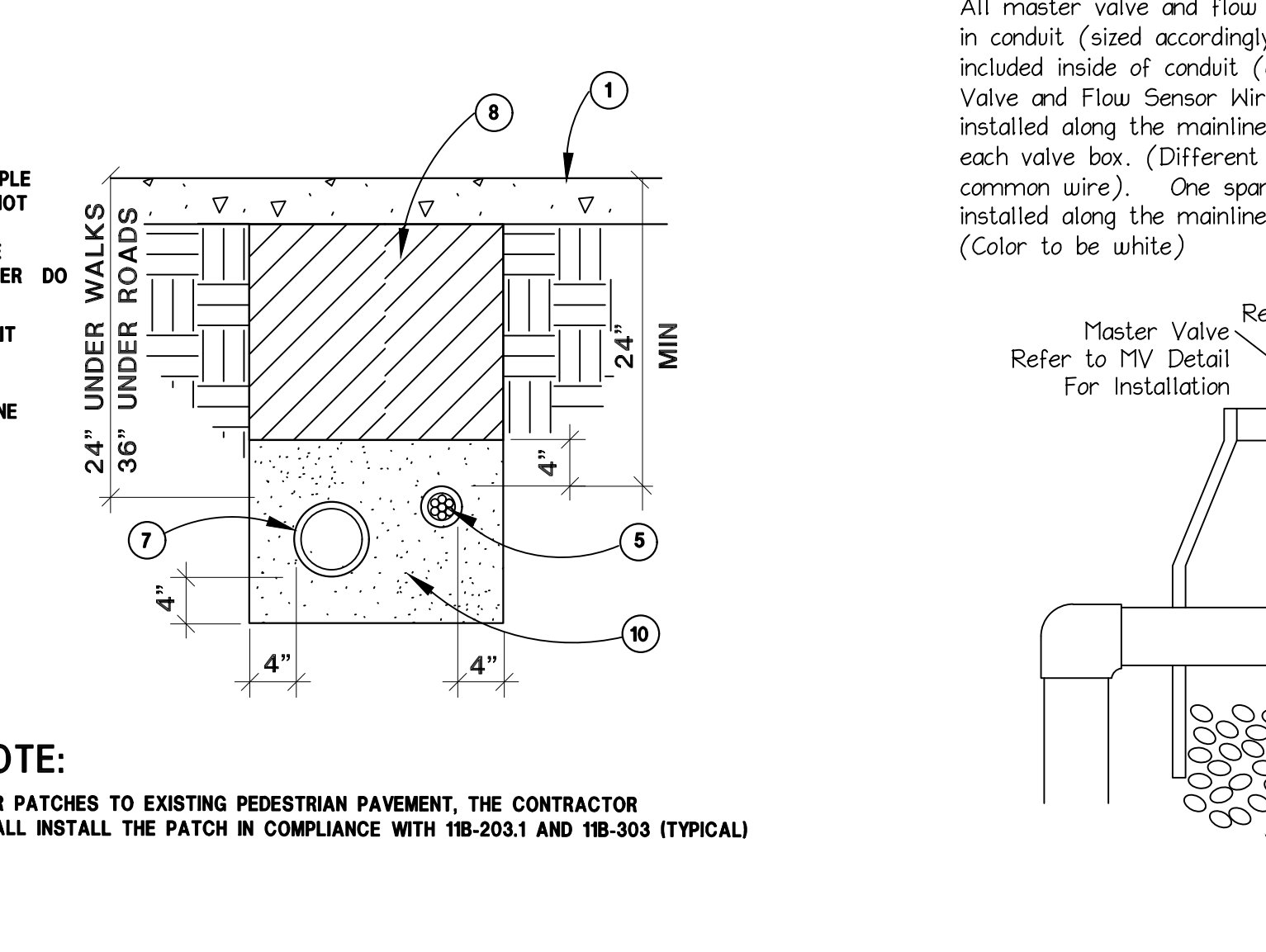
**H** REMOTE CONTROL VALVE  
N.T.S.



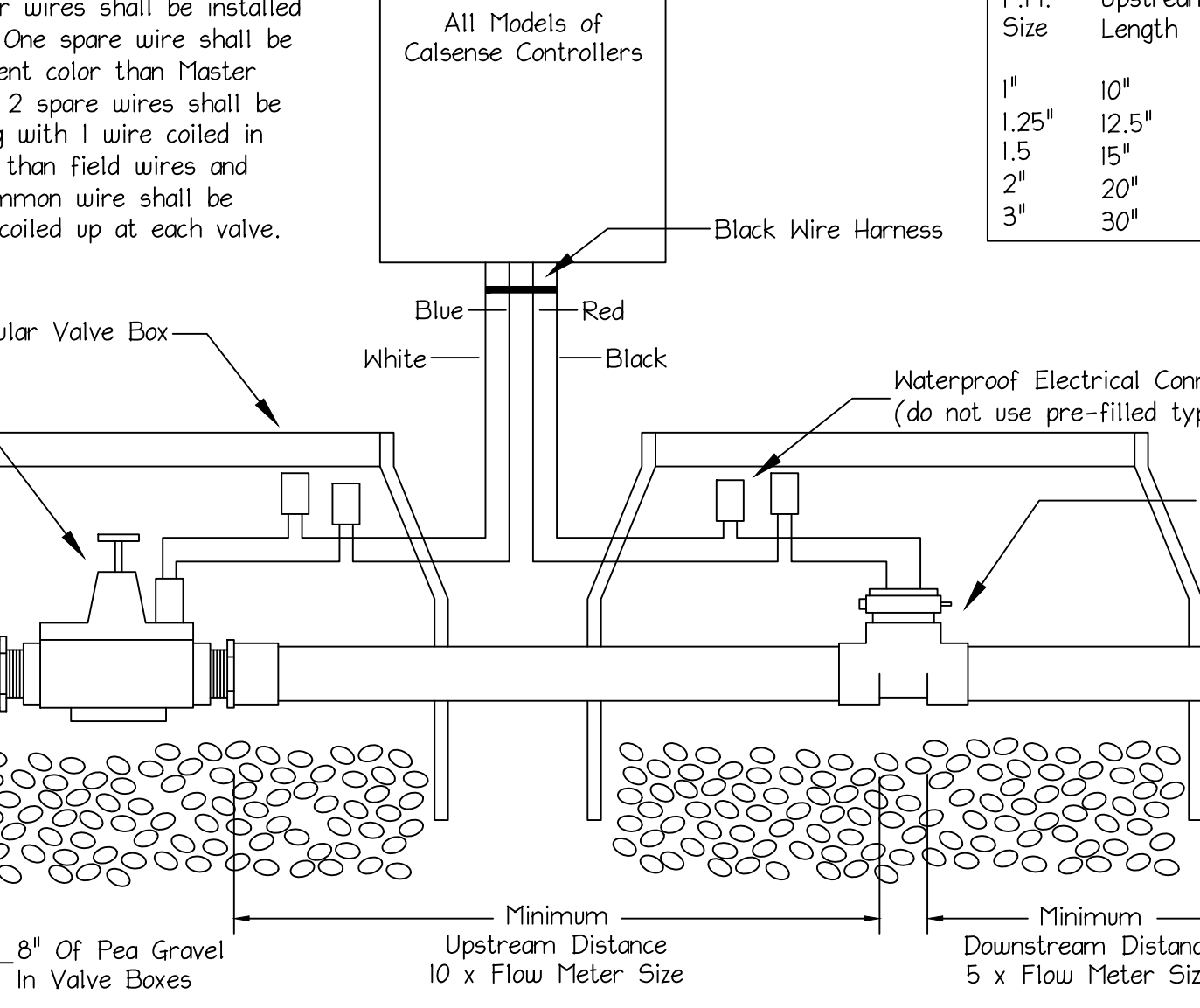
**I** DRIP CONTROL ZONE KIT  
N.T.S.



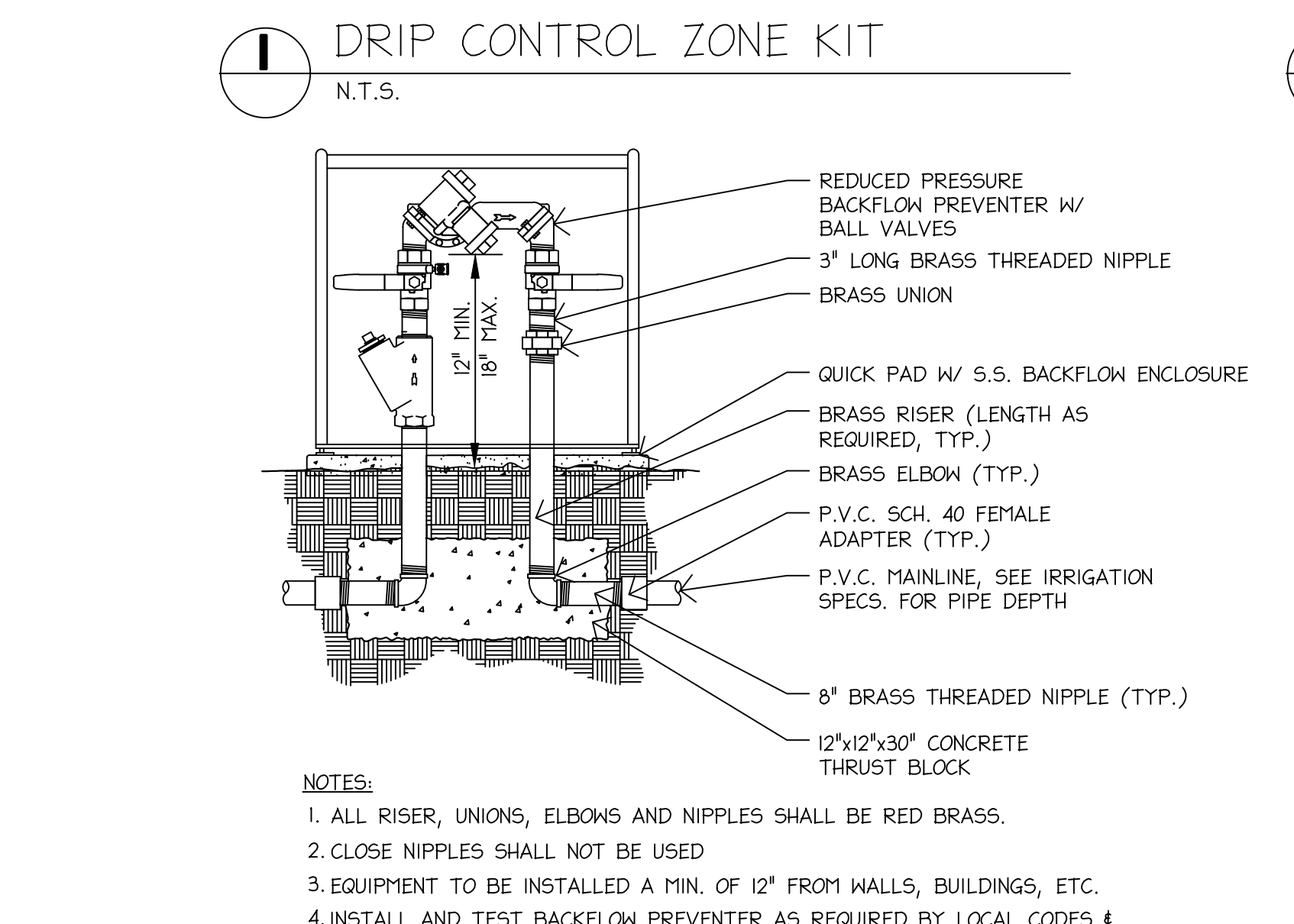
**J** PIPE INSTALLATION  
N.T.S.



**K** SLEEVE INSTALLATION  
N.T.S.



**L** MASTER VALVE / FLOW SENSOR INSTALLATION  
N.T.S.



**M** REDUCED PRESSURE BACKFLOW  
N.T.S.

**PIPE/SLEEVE LEGEND:**

- PAVING
- FINISH GRADE
- PVC MAINLINE (FOR NON-POTABLE USE PURPLE PIPE WITH WORDS "RECYCLED WATER DO NOT DRINK")
- PVC LATERAL LINE (FOR NON-POTABLE USE PURPLE PIPE WITH WORDS "RECYCLED WATER DO NOT DRINK")
- CONTROL WIRES OR COM. CABLE IN CONDUIT
- CONTROL WIRES OR COM. CABLE
- SLEEVE FOR MAINLINE AND/OR LATERAL LINE
- FINE GRANULAR BACKFILL (1/2" MAX. DIA.)
- TOPSOIL
- SAND

**CoPLACE LOGAN IRRIGATION SCHEDULE (MINUTES)**

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
CYCLES PER WEEK - TURF	1	2	3	4	4	5	5	4	3	3	2	1
TURF CROP COEFFICIENT	.61	.64	.75	1.04	.95	.88	.94	.86	.74	.75	.69	.60
CYCLES PER WEEK-SHRUB	1	1	2	2	2	3	3	2	2	1	1	1
Eto DAILY AVERAGE	.07	.09	.12	.16	.17	.20	.21	.20	.16	.12	.09	.07

**IRRIGATION RUN TIMES**

Hydrozone	PLANT TYPE	Water Usage	Kc	SPRINKLER TYPE	EXPOSURE	EXPO FACTOR	PRECIP (in/hr)	SPKLR EFFIC.	ROOT DEPTH (in)	RUN TIME MULTIPLIER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	SHRUB	LOW	0.20	DRIP	FULL SUN	100%	0.72	81%	6	1.23	10	13	9	12	12	10	10	10	12	9	13	10
2	SHRUB	LOW	0.20	ROTARY	FULL SUN	100%	0.61	79%	6	1.33	13	17	11	15	16	12	13	12	15	11	17	13
3	TREE	MEDIUM	0.30	BUBBLER	FULL SUN	100%	3.00	79%	12	1.33	7	8	6	7	6	7	6	7	6	8	7	7

**POC WIRING NOTES:**

All master valve and flow sensor wires shall be installed in conduit (sized accordingly). One spare wire shall be included inside of conduit (different color than Master Valve and Flow Sensor wire). 2 spare wires shall be installed along the mainline with 1 wire coiled in each valve box. (Different color than field wires and common wire). One spare Common wire shall be installed along the mainline and coiled up at each valve. (Color to be white).

**Pipe Sizing Chart**

F.M. Size	Upstream Length	Downstream Length
1"	10'	5'
1.25"	12.5'	6.25'
1.5"	15'	7.5'
2"	20'	10'
3"	30'	15'

**REVISIONS:**

DESCRIPTION	DATE
ADDENDUM 2	01/03/2023

DATE ISSUED: 2018-11-19

PROJECT NO: 2018-40167

DSA APPLICATION NO: 04-121029

SCALE: As indicated

SHEET NUMBER: **L-4.01**

SHEET TITLE:

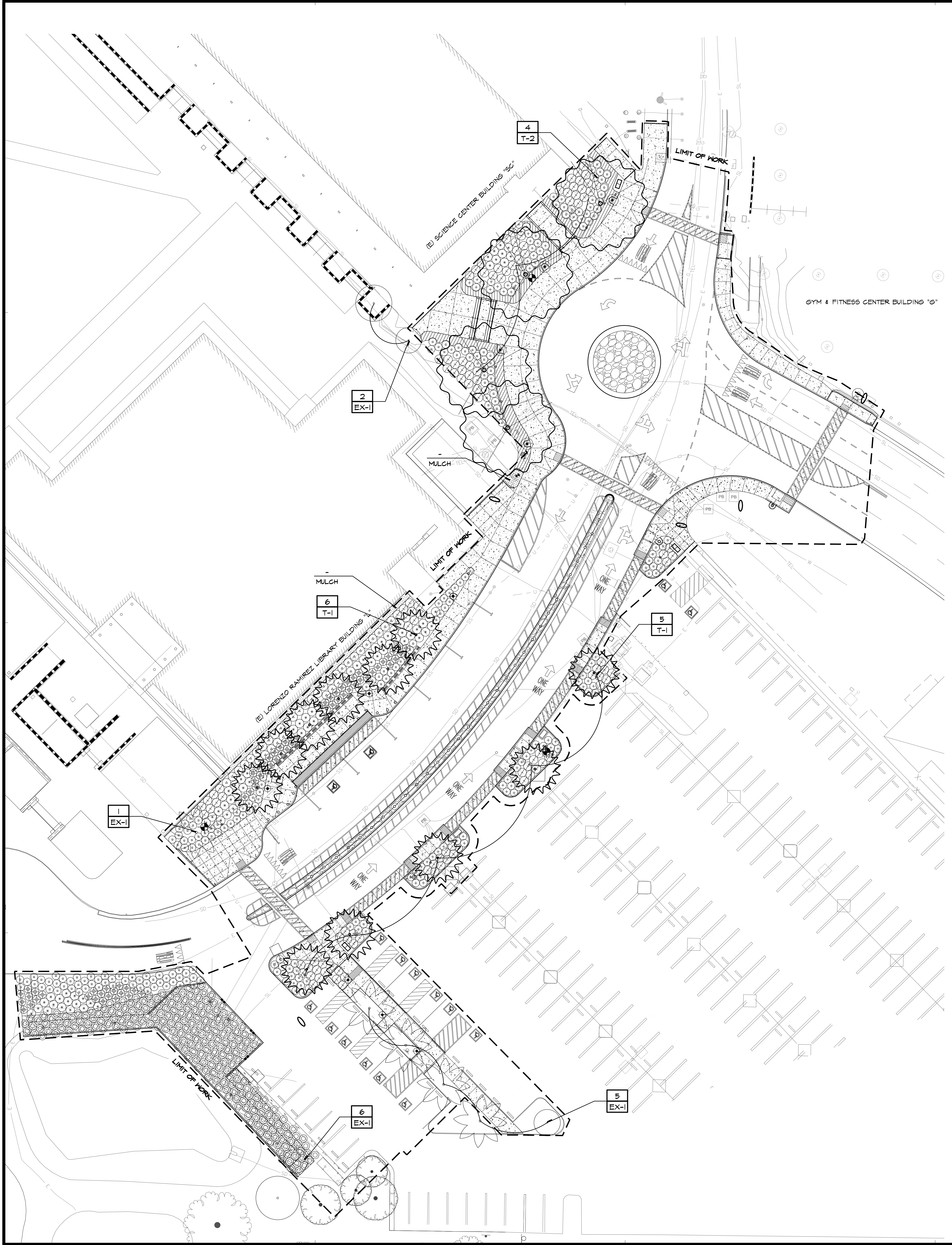
**LANDSCAPE IRRIGATION DETAILS**

**RJM DESIGN GROUP**

31591 Camino Capistrano  
San Juan Capistrano, CA 92675  
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(949) 493-2690 fax  
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**TREE LEGEND**

BOTANICAL NAME COMMON NAME	SIZE	SPACING	DISTRICT APPROVED PLANT	MUCOLS ZONE 5	QTY.
T-1 GELIERA PARVIFLORA AUSTRALIAN WILLOW	36" BOX	SPACING PER PLAN	YES	L	11
T-2 PODOCARPUS GARGILIOR - FEMALE FERN FINE	36" BOX	SPACING PER PLAN	YES	M	4
EX-1 EXISTING TREE OR PALM TO REMAIN PROTECT IN PLACE	-	AS SHOWN	-	-	-

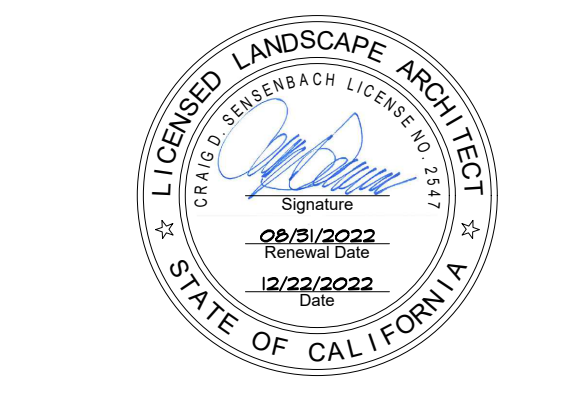
**SHRUB AND GROUNDCOVER LEGEND**

BOTANICAL NAME COMMON NAME	SIZE	SPACING	DISTRICT APPROVED PLANT	MUCOLS ZONE 5	QTY.
S-1 DYMONDIA MARGARETAE SILVER CARPET	1 GAL.	12" O.C.	NOT LISTED	L	56
S-2 MYOPORUM PARVIFOLIUM 'PUTAH CREEK' CREEPING MYOPORUM	1 GAL.	3'-6" O.C.	YES	L	208
S-3 LANTANA X 'NEW GOLD' LANTANA NEW GOLD	1 GAL.	3'-6" O.C.	NOT LISTED	VL	78
S-4 PHORMIUM TENAX SURFER NEW ZEALAND FLAX	5 GAL.	4'-0" O.C.	YES	L	120
S-5 WESTRINGIA BLUE GEM BLUE GEM COAST ROSEMARY	5 GAL.	3'-6" O.C.	NOT LISTED	L	68
S-6 ROSMARINUS OFFICINALIS 'TUSCAN BLUE' UPRIGHT ROSEMARY	5 GAL.	4'-0" O.C.	YES	VL	77
S-7 ELAEOAGNIS FUNGENS SILVERBERRY	5 GAL.	4'-0" O.C.	NOT LISTED	L	58
S-8 BIOSWALE SOIL MEDIA / DETENTION BASIN PLANTING - MULENBERGIA CAPILLARIS	1 GAL.	3'-6" O.C.	YES	M	247
-	MULCH - SYMBOL SHOWN FOR REFERENCE IN MULCH ONLY AREAS	PER SPECS	ALL SHRUB AREAS TO RECEIVE MULCH	-	-

- NOTES:**
- FOR GENERAL PLANTING NOTES AND PLANTING DETAILS SEE SHEET L-6.01.
  - ALL PLANTING AND IRRIGATION SHALL ABIDE BY THE RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT FACILITY DESIGN STANDARDS AND PLANTING AND IRRIGATION SPECIFICATIONS.
  - SEE CIVIL ENGINEER'S PLANS FOR DEMOLITION AND PROTECT IN PLACE ITEMS.
  - ALL TREES TO BE LOCATED A MINIMUM OF 15' FEET AWAY FROM ALL VERTICAL ELEMENTS INCLUDING: BUILDINGS, ROOF LINES / CANOPIES, FENCES, WALLS, ETC.
  - ALL TREES TO BE LOCATED A MINIMUM OF 10' FEET AWAY FROM ALL EXISTING AND PROPOSED UNDERGROUND UTILITIES.
  - ALL TREE LOCATIONS SHALL BE STAKED PRIOR TO PLANTING FOR REVIEW AND APPROVAL BY DISTRICT REPRESENTATIVE.
  - ALL PLANT MATERIAL (SHRUBS, GROUNDCOVERS) SHALL BE PLANTED MINIMUM 18" AWAY FROM BUILDINGS, WALLS, FENCES, ETC. AREA SHALL BE MULCHED ONLY.
  - ALL SHRUB AND GROUNDCOVER AREAS TO RECEIVE 4" MULCH LAYER PER DISTRICT FACILITY DESIGN STANDARDS AND DETAILS.
  - ALL TREES SHALL NOT HAVE BRANCHES OR LIMBS LOWER THAN 80" WHERE ADJACENT TO PUBLIC WALKWAYS OR SIDEWALKS. CONTRACTOR SHALL LOCATE PROPOSED TREES PRIOR TO PLANTING FOR REVIEW AND APPROVAL BY COLLEGE AND DISTRICT. IF LIMBS INTERFERE WITH 80" CLEARANCE A CERTIFIED ARBORIST SHALL REVIEW PROPOSED PRUNING PRIOR TO LIMBS OR BRANCHES BEING CUT AS TO NOT COMPROMISE THE HEALTH OR STRUCTURE OF THE TREE.
  - ALL TREES LOCATED WITHIN 8' OF ANY HARDSCAPE ELEMENTS (SIDEWALKS, WALLS, D.P.S. FAYERS, CURBS, ETC.) SHALL RECEIVE ROOT BARRIERS. ROOT BARRIER MODEL #UB 24-2 UNIVERSAL BARRIER BY 'DEEP ROOT'. CONTACT: (714) 858-0863. ROOT BARRIERS SHALL BE MINIMUM 24" DEEP BY 8' LONG PER TREE. SEE DISTRICT FACILITY DESIGN STANDARDS AND DETAILS.

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-121029 INC.  
REVIEWED FOR:  
SS  FLS  ACS   
DATE: 01/04/2023

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**  
8045 E. Chapman Avenue, Orange, CA 92669

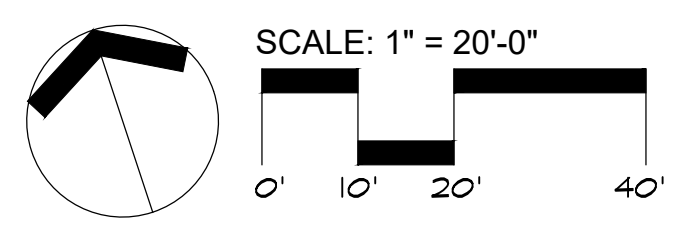


**REVISIONS:**

NO.	DESCRIPTION	DATE
2	ADDENDUM 2	01/03/2023

**DATE ISSUED:** 2018-11-19  
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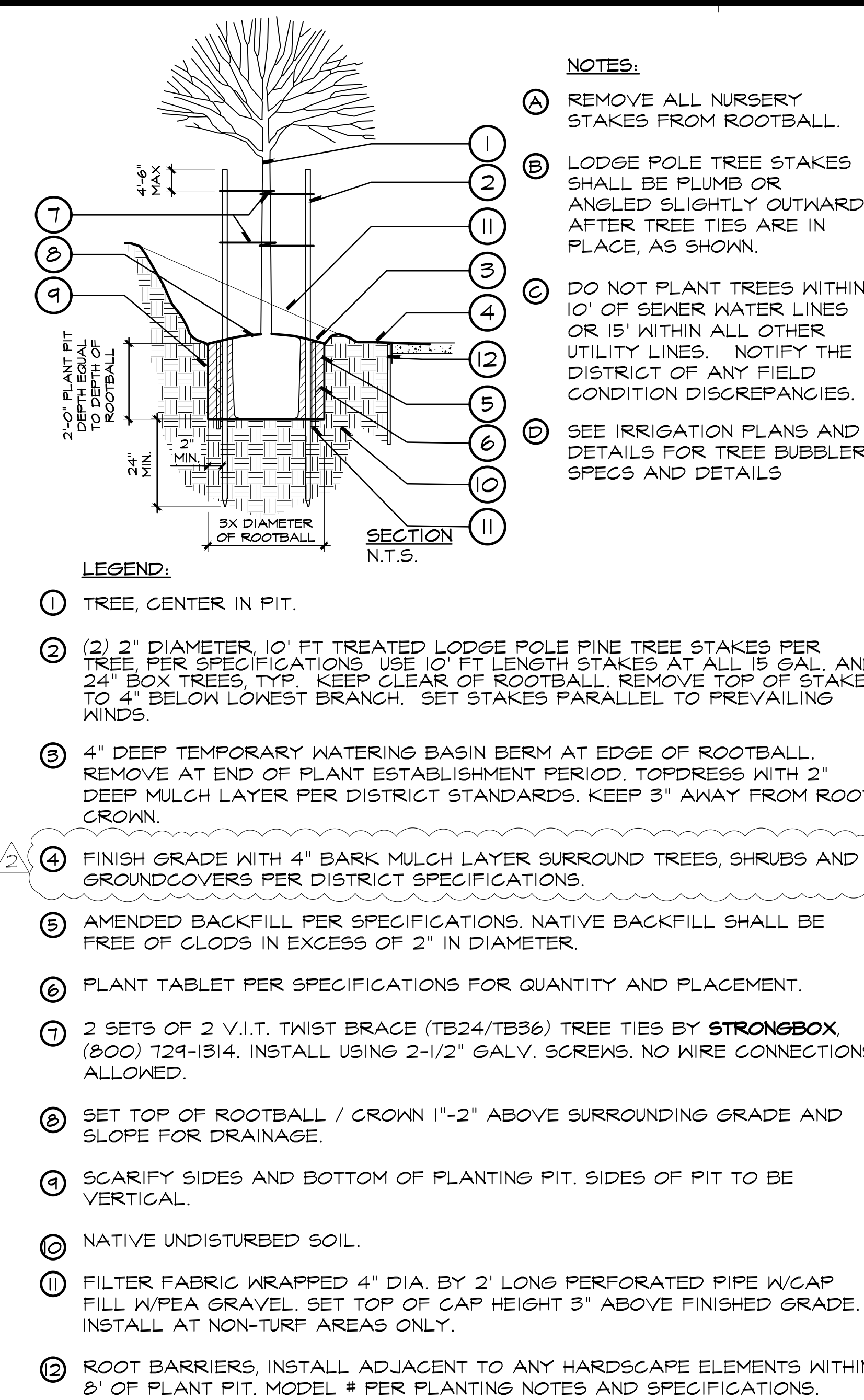
**LANDSCAPE PLANTING PLAN**



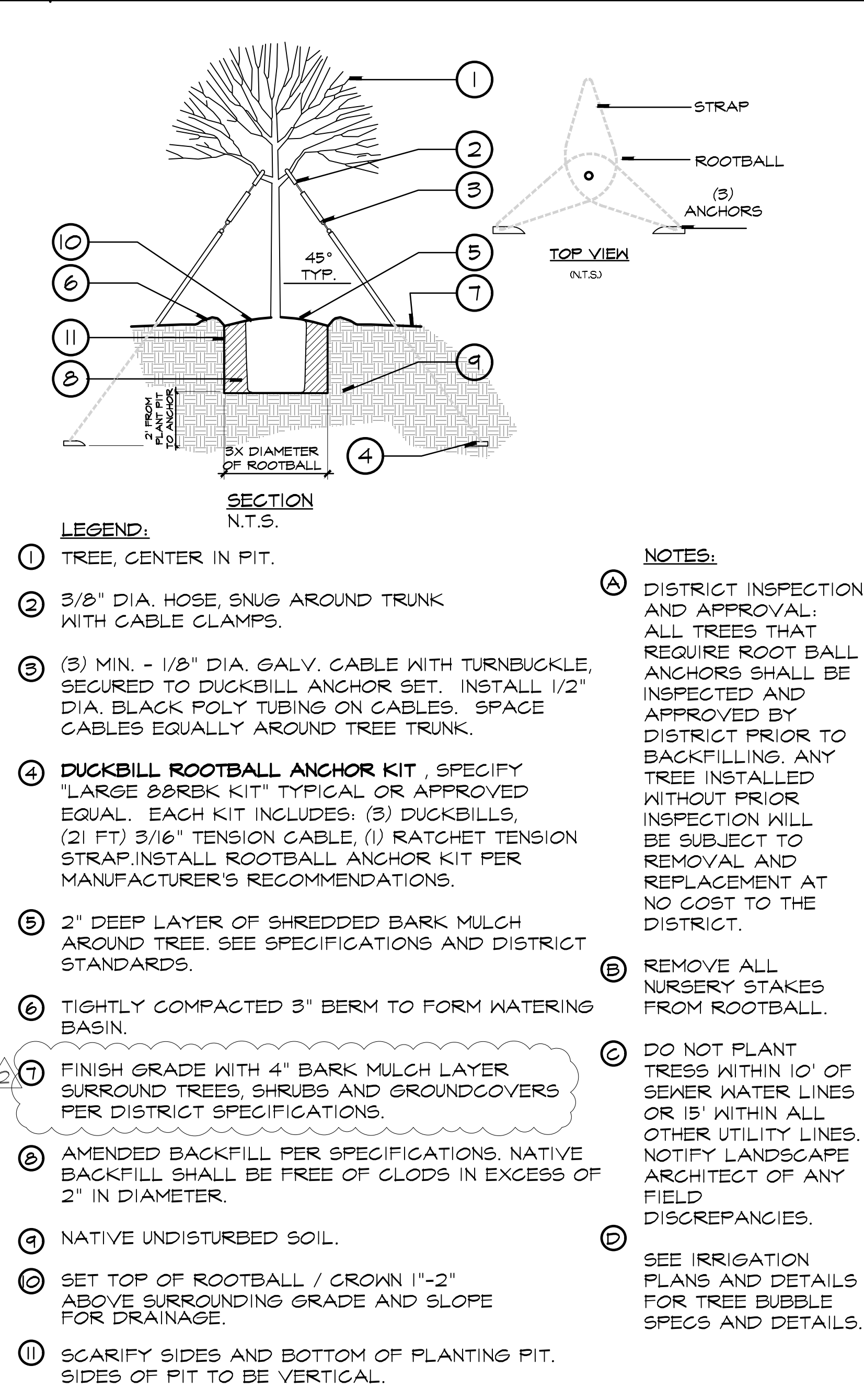
**UNDERGROUND SERVICE ALERT**  
**CALL: 811**  
**TWO WORKING DAYS BEFORE YOU DIG**

**RJM DESIGN GROUP**  
31591 Camino Capistrano  
San Juan Capistrano, CA 92675  
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(949) 493-2690 fax  
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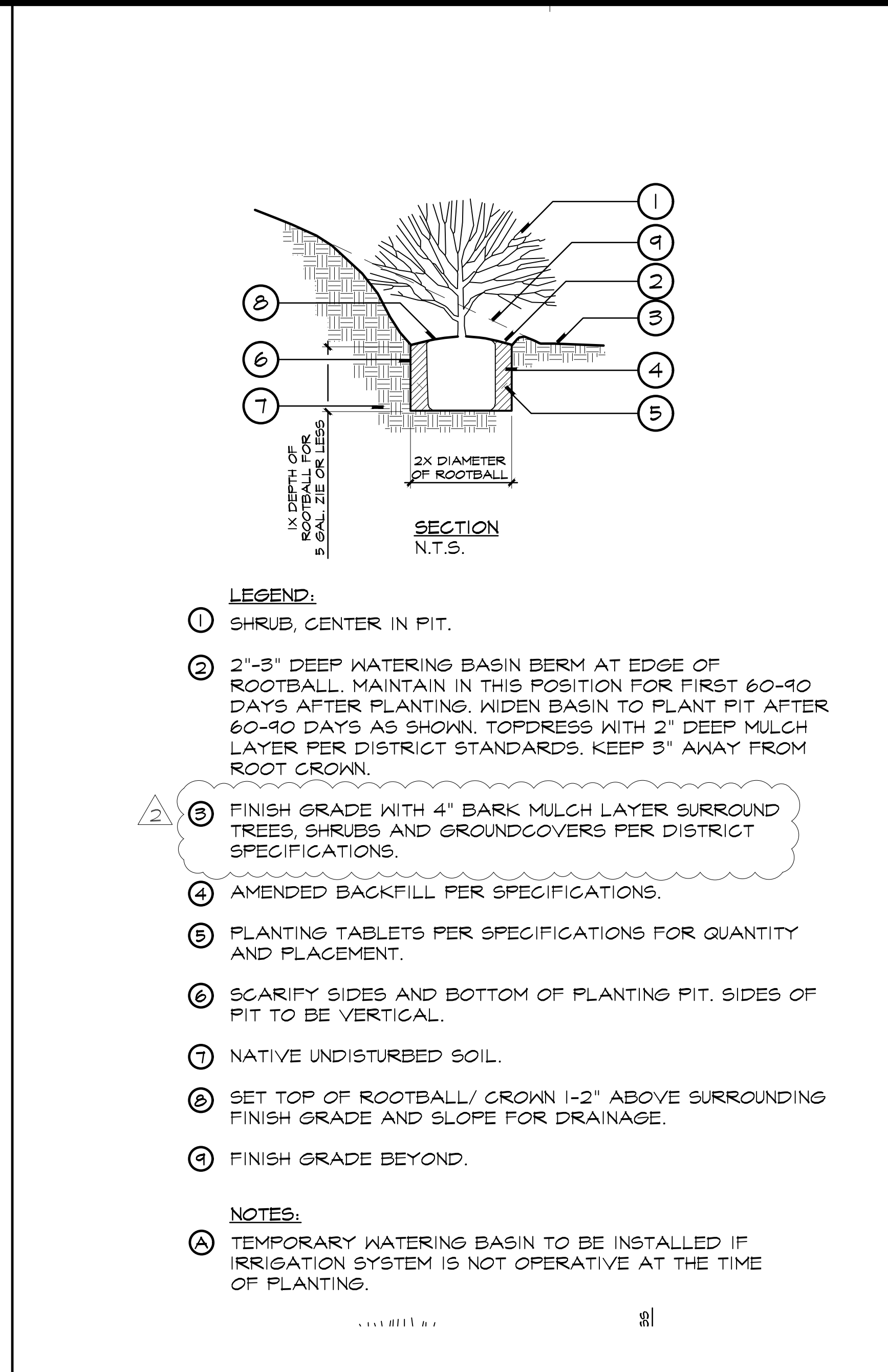




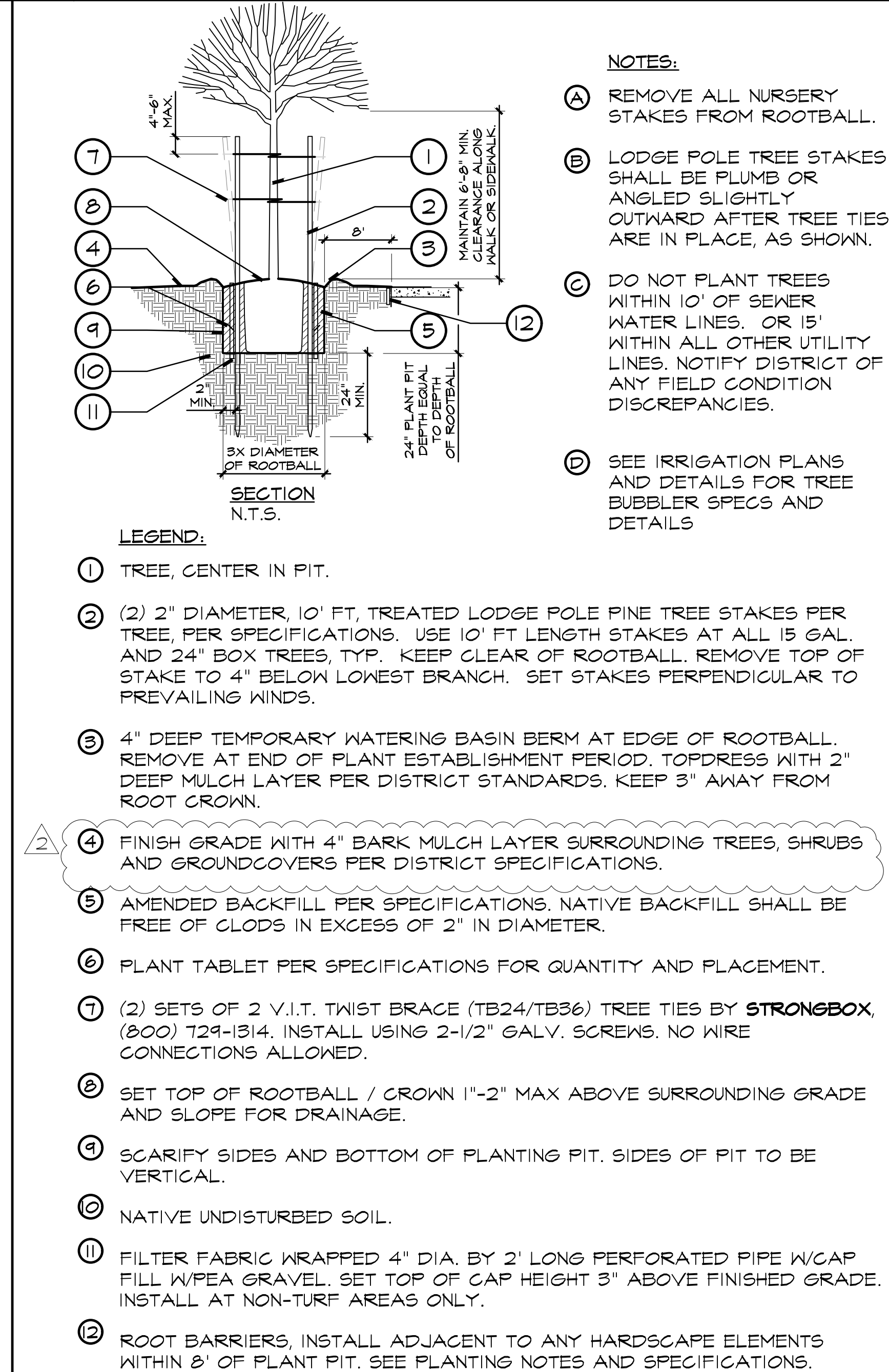
**6 TREE PLANTING ON SLOPE (24" BOX OR SMALLER)**



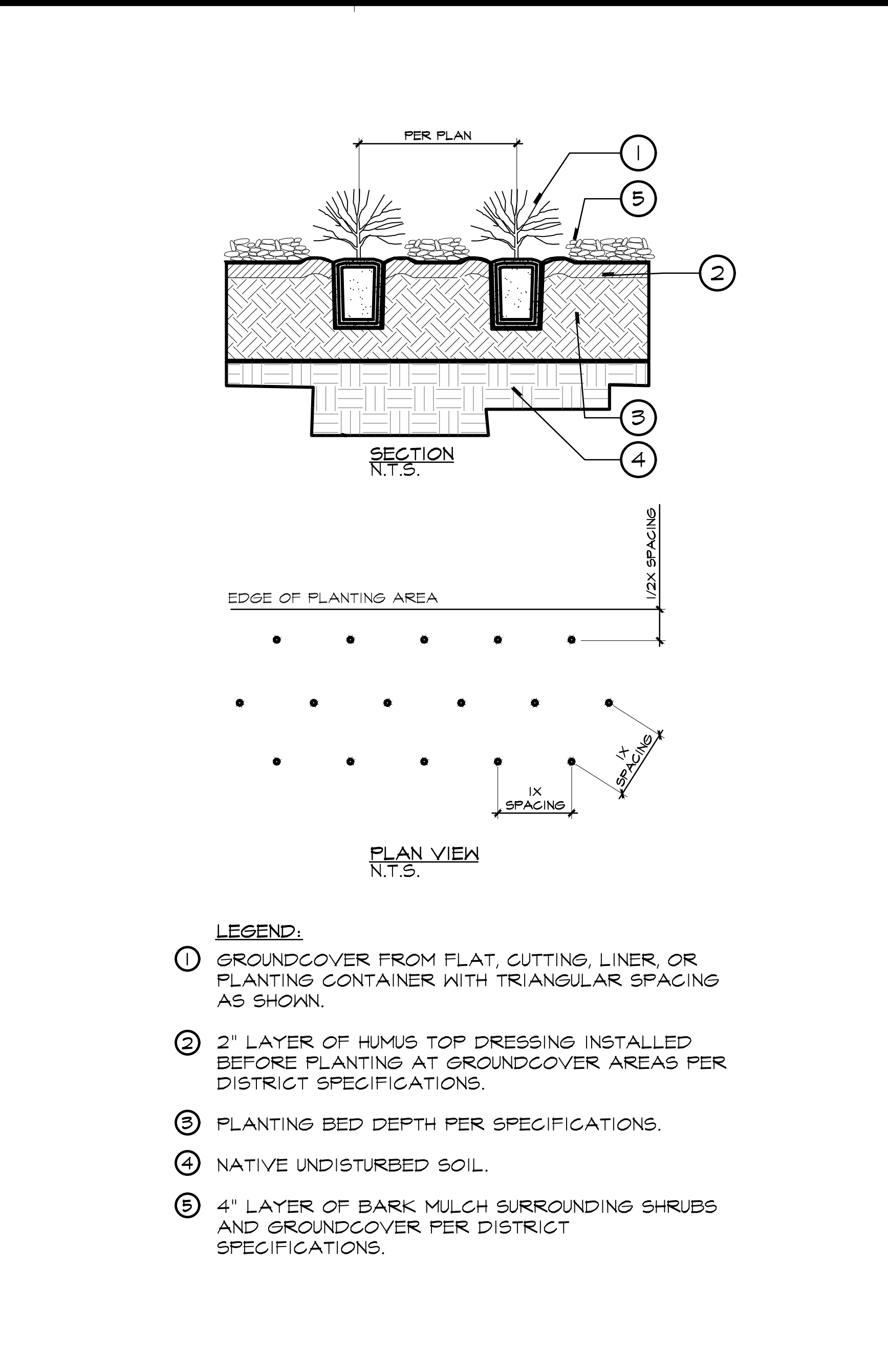
**7 TREE GUYING (48" BOX AND LARGER)**



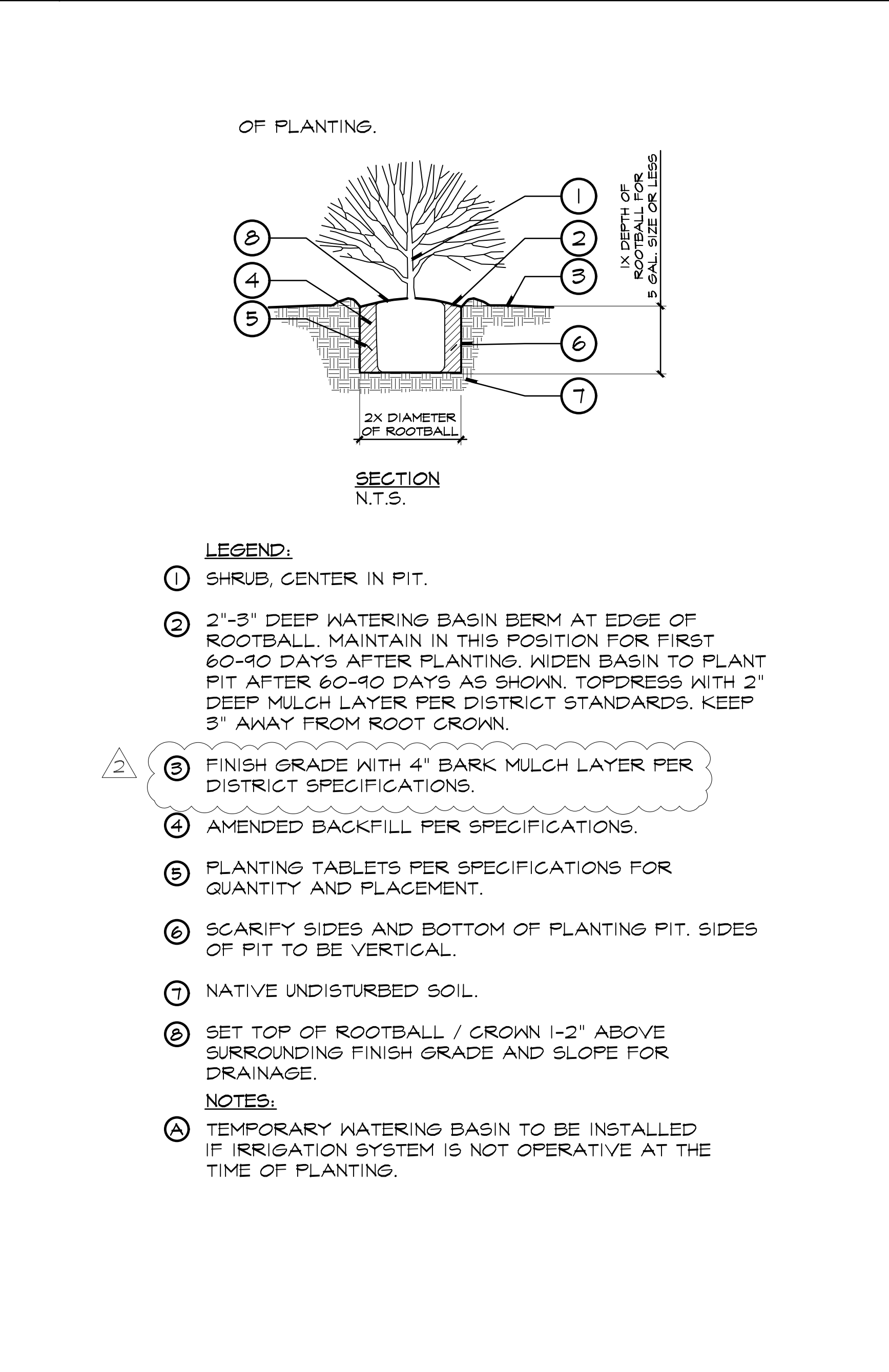
**4 SHRUB PLANTING ON SLOPE**



**5 TREE PLANTING (24" BOX OR SMALLER)**



**2 GROUNDCOVER PLANTING**



**3 SHRUB PLANTING**

- PLANTING NOTES**
- ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING & UNIFORM FORM.
  - ALL LANDSCAPED AREAS TO RECEIVE AUTOMATED IRRIGATION.
  - REFER TO PLANTING SPECIFICATIONS FOR SOIL PREPARATION, FERTILIZATION, MULCHING, AND OTHER ADDITIONAL PLANTING INFORMATION.
  - ALL PLANT MATERIAL SHALL BE APPROVED BY THE DISTRICT PRIOR TO INSTALLATION.
  - FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE DISTRICT.
  - CONTRACTOR SHALL NOTIFY THE DISTRICT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.
  - SEE DETAILS AND SPECIFICATIONS FOR STAKING METHOD, PLANT PIT DIMENSIONS AND BACKFILL REQUIREMENTS.
  - IF CONFLICTS ARISE BETWEEN SIZE OF AREAS AND PLANS, CONTRACTOR TO CONTACT DISTRICT AND LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE DISTRICT AND LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE THE MATERIALS.
  - CONTRACTOR SHALL SUBMIT TO THE DISTRICT FOR APPROVAL, PHOTOS OF ALL BOXED TREES. PHOTOS SHOULD INCLUDE A PERSON FOR SCALE PURPOSES. ALL BOX TREES SHALL BE OF QUALITY AS DETERMINED BY THE DISTRICT AND LANDSCAPE ARCHITECT. MATERIAL FOUND UNSUITABLE FOR THE DESIGN OR SPECIFICATION INTENT WILL BE REJECTED. THE CONTRACTOR SHALL ALSO SUBMIT WRITTEN SPECIFICATIONS FOR ALL PLANT MATERIAL SPECIFIED ON THIS PROJECT PRIOR TO PLACING ORDER. FAILURE TO DO SO COULD RESULT IN THE REPLACEMENT (AT CONTRACTOR'S EXPENSE) OF ANY PLANTS DETERMINED UNACCEPTABLE BY DISTRICT AND LANDSCAPE ARCHITECT.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIALS FREE OF PESTS OR PLANT DISEASES. PRE-SELECTED OR TAGGED MATERIAL MUST BE INSPECTED BY THE CONTRACTOR AND CERTIFIED PEST AND DISEASE FREE. IT IS THE CONTRACTOR'S OBLIGATION TO WARRANTY ALL PLANT MATERIALS PER THE SPECIFICATIONS.
  - CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR CONDITIONS EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DISTRICT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AND CONSTRUCTION MANAGER AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
  - LANDSCAPE CONTRACTOR TO RECEIVE SITE GRADED TO +0.10. CONTRACTOR SHALL OBTAIN LETTER OF GRADE CERTIFICATION FROM DISTRICT PRIOR TO PROJECT EXECUTION.
  - PLANT MATERIAL QUANTITIES ARE GIVEN FOR CONVENIENCE ONLY. PLANT SYMBOLS AND SPECIFIED SPACING SHALL TAKE PRECEDENCE. CONTRACTOR SHALL VERIFY PLANT MATERIAL QUANTITIES PER PLAN.
  - CONTRACTOR TO ASSURE POSITIVE DRAINAGE IN ALL PLANTING AREAS - 2% MINIMUM ALLOWED.
  - AFTER ROUGH GRADES HAVE BEEN ESTABLISHED IN PLANTING AREAS, CONTRACTOR SHALL HAVE SOIL SAMPLES TAKEN AT THE LOCATIONS INDICATED BY DESIGNATION. CONTRACTOR SHALL INFORM SOIL TESTING LAB OF THE PLANT MATERIAL SPECIFIED IN SOIL TESTING LOCATIONS (NATIVE TREES & SHRUBS, ORNAMENTAL TREES & SHRUBS, PALM TREES, BERMUDA SOD, ETC.) SO THAT APPROPRIATE PLANTING RECOMMENDATIONS CAN BE GIVEN. THESE SAMPLES SHALL BE TESTED BY **SUNMIT TURF AND HORTICULTURE CONSULTANTS** OR APPROVED EQUAL. CONTACT: JASON GIBSON (951) 298-7157 FOR SOIL FERTILITY, AGRICULTURAL SUITABILITY TEST AND SOIL PREPARATION RECOMMENDATIONS. TWO SAMPLES SHALL BE TAKEN AT EACH LOCATION: (1) GROUND LEVEL TO 10" DEEP, (2) 24" TO 36" DEEP. EACH SAMPLE SHALL CONTAIN APPROXIMATELY 2 QUARTS OF SOIL AND BE LABELED PER LOCATION AND DEPTH. CONTRACTOR SHALL INSTALL SOIL PREPARATION AND BACKFILL MIX TO CONFORM TO THESE RECOMMENDATIONS ONLY UPON RECEIPT OF WRITTEN CHANGE ORDER FROM DISTRICT. SUBMIT SOIL REPORT TO DISTRICT'S ENGINEER PRIOR TO PLANTING.
  - GROUND COVERS AND SHRUBS SHALL BE TRIANGULARLY SPACED, UNLESS OTHERWISE INDICATED.
  - ALL SOIL FOR LANDSCAPE PLANTING AREAS OR BERMS SHALL BE OBTAINED FROM ON-SITE EXCAVATIONS SHOULD IMPORT SOIL BE NECESSARY. INDICATE SOURCE LOCATION. SEE PROJECT GEOTECHNICAL REPORT. SOIL SHALL BE SANDY LOAM CONTAINING NO TOXIC CHEMICALS OR ELEMENTS WHICH MAY INHIBIT OR RETARD NORMAL PLANT GROWTH. SOIL TESTING RESULTS SHALL BE SUBMITTED AND APPROVED PRIOR TO SOIL IMPLEMENTATION.
  - ALL LANDSCAPED AREAS (EXCLUDING TURF) SHALL BE MULCHED WITH A 4" DEEP LAYER OF SHREDDED BARK MULCH, 0"-4" IN SIZE, PER SPECIFICATIONS, AT THE CONCLUSION OF PLANTING OPERATIONS.
  - AT EDGES OF PLANTING AREAS, THE CENTER LINE OF THE LAST ROW OF SHRUBS AND/OR GROUND COVER SHALL BE LOCATED NO FARTHER FROM OR CLOSER TO THE EDGE THAN ONE-HALF THE SPECIFIED ON-CENTER SPACING.
  - REMOVE ALL NURSERY STAKES AND ESPALIER RACKS IMMEDIATELY AFTER INSTALLATION, UPON PROVIDING SUPPORT PER DETAILS, THIS SHEET.
  - ALL TREES PLANTED WITHIN 8' OF ANY HARDSCAPE ELEMENTS (SIDEWALKS, WALLS, D.G., PAVERS, CURBS, ETC.) SHALL RECEIVE ROOT BARRIERS. ROOT BARRIER MODEL #UB 24-2 UNIVERSAL BARRIER" BY "DEEP ROOT." CONTACT: (714) 848-0863. ROOT BARRIERS SHALL BE MINIMUM 24" DEEP BY 8' LONG PER TREE. SEE DISTRICT STANDARD SPECIFICATIONS.
  - ALL MULCH AREAS ON SLOPES TO RECEIVE POLY JUTE NETTING, MODEL #: 014312 AND ANCHOR STAKES MODEL #: 000425719500501 BY DEWITT CO OR APPROVED EQUAL. PER DISTRICT STANDARD SPECIFICATIONS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROTECTION OF ALL EXISTING SHRUB AND TURF AREAS TO REMAIN DURING CONSTRUCTION. DAMAGED SHRUB AND TURF AREAS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
  - AFTER ALL THE WORK INDICATED ON THE DRAWINGS HAS BEEN COMPLETED, INSPECTED, & APPROVED BY THE CLIENT REPRESENTATIVE, ALL AREAS WITHIN THE PROJECT BOUNDARY ARE TO BE MAINTAINED FOR A PERIOD OF 90 CALENDAR DAYS, PER PLANTING SPECIFICATION SECTION 32 40 00, PART 4.2, MAINTENANCE PERIOD.
  - ALL SHRUBS & OTHER PLANT MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF 90 CALENDAR DAYS. ALL GUARANTEE PERIODS COMMENCE FROM THE TIME OF FINAL ACCEPTANCE BY THE CLIENT REPRESENTATIVE AT THE COMPLETION OF THE 90 CALENDAR DAY MAINTENANCE PERIOD. PER PLANTING SPECIFICATION SECTION 32 40 00, PART 1.2, GUARANTEE.
  - ALL PLANTING AREAS SHALL RECEIVE WEED-CONTROL BARRIERS. COMPOSITE FABRIC MIRAFI 140N OR DISTRICT APPROVED EQUAL.

**1 PLANTING NOTES**

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-121029 INC.  
REVIEWED FOR:  
SS  FLS  ACS   
DATE: 01/04/2023

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**

**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**

8045 E. Chapman Avenue, Orange, CA 92668

LANDSCAPE ARCHITECT  
STATE OF CALIFORNIA  
08/21/2022  
12/22/2022

**REVISIONS:**

NO.	DESCRIPTION	DATE
2	ADDENDUM 2	01/03/2023

DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
SCALE: As indicated  
SHEET NUMBER: **L-6.01**  
SHEET TITLE:

**LANDSCAPE PLANTING DETAILS**

**RJM DESIGN GROUP**

31591 Camino Capistrano  
San Juan Capistrano, CA 92675  
www.RJMdesigngroup.com  
(949) 493-2690 fax  
(949) 493-2600 phone

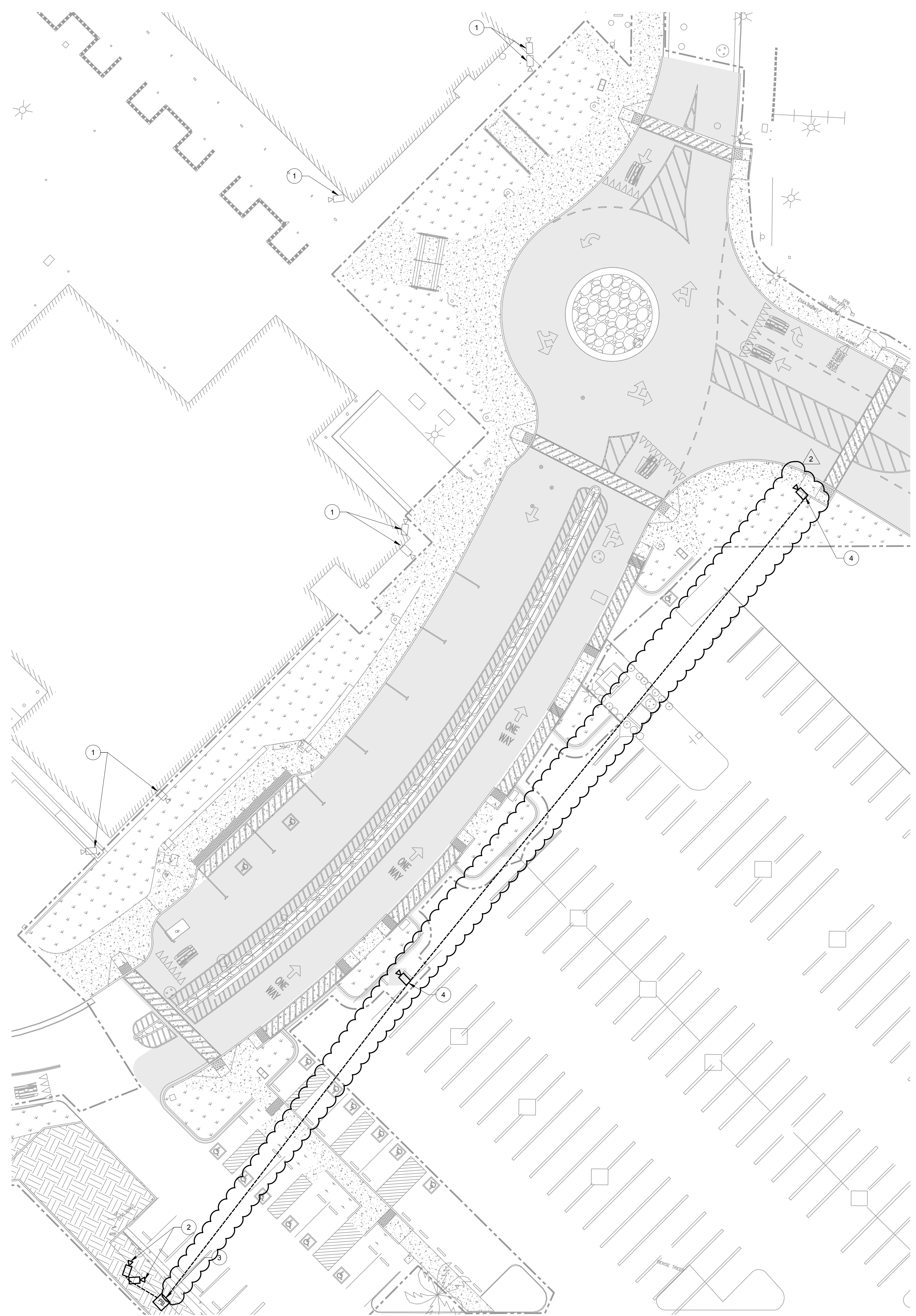
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**UNDERGROUND SERVICE ALERT**

CALL: 811

TWO WORKING DAYS BEFORE YOU DIG





**GENERAL NOTES:**

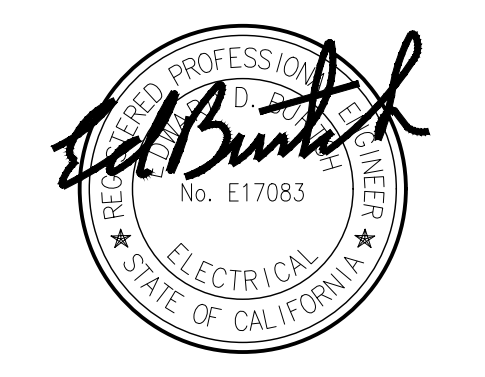
1. ELECTRICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS AND A FIELD VISIT OF THE ELECTRICAL SYSTEM. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE ELECTRICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.
2. MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION.

**RECONSTRUCTION NOTES:**

1. EXISTING SECURITY CAMERA TO REMAIN AND BE PROTECTED IN PLACE.
2. NEW LOCATION OF RELOCATED CAMERA. EXTEND CONDUIT AND WIRING TO MATCH EXISTING.
3. NEW LOCATION OF RELOCATED PULL BOX. MATCH EXISTING CONDUIT AND WIRING. PULL BOX TO BE AS CLOSE TO THE CURB TO AVOID BIOFILTRATION AREA.
4. NEW MULTI-IMAGER CAMERAS TO BE INSTALLED ON NEW AREA LIGHT. EXTEND NEW WIRING TO MATCH EXISTING WIRING. PROVIDE NEW DATA WIRING FROM BUILDING D. REFER TO CAMERA FIELD OF VIEW SHEET FOR IMAGER TUNING. SEE E-102 FOR LIGHTING LOCATION. SEE E-501 FOR POLE MOUNTED CAMERA DETAIL.

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 04-121029 INC:  
REVIEWED FOR:  
SS  FLS  ACS   
DATE: 01/04/2023

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**  
8045 E. Chapman Avenue, Orange, CA 92869



**REVISIONS:**

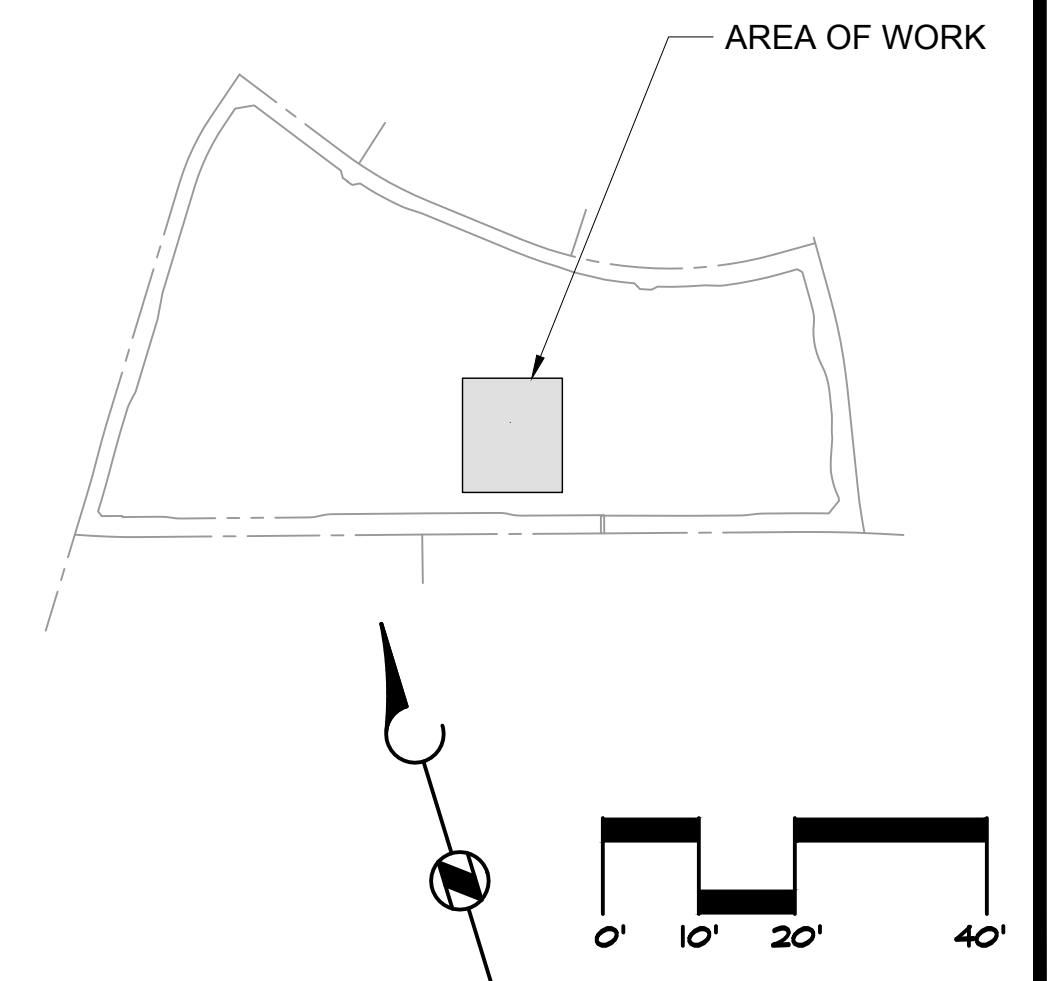
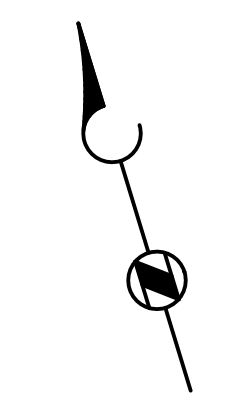
DESCRIPTION	DATE
▲ ADDENDUM 2	01/03/2023

DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
SCALE: As indicated  
SHEET NUMBER: **E-103**  
SHEET TITLE:

**RECONSTRUCTION SECURITY PLAN**



LEGEND:  
— EXISTING  
— NEW



RECONSTRUCTION SECURITY PLAN SCALE 1" = 20'-0" 1

KEY PLAN SCALE N.T.S. 0

**GOSS ENGINEERING**  
255 East Rincon St., Suite 301  
Corona, CA 92879  
P 951.340.1977 | F 951.340.1090  
FILE NO.: 120-06-04

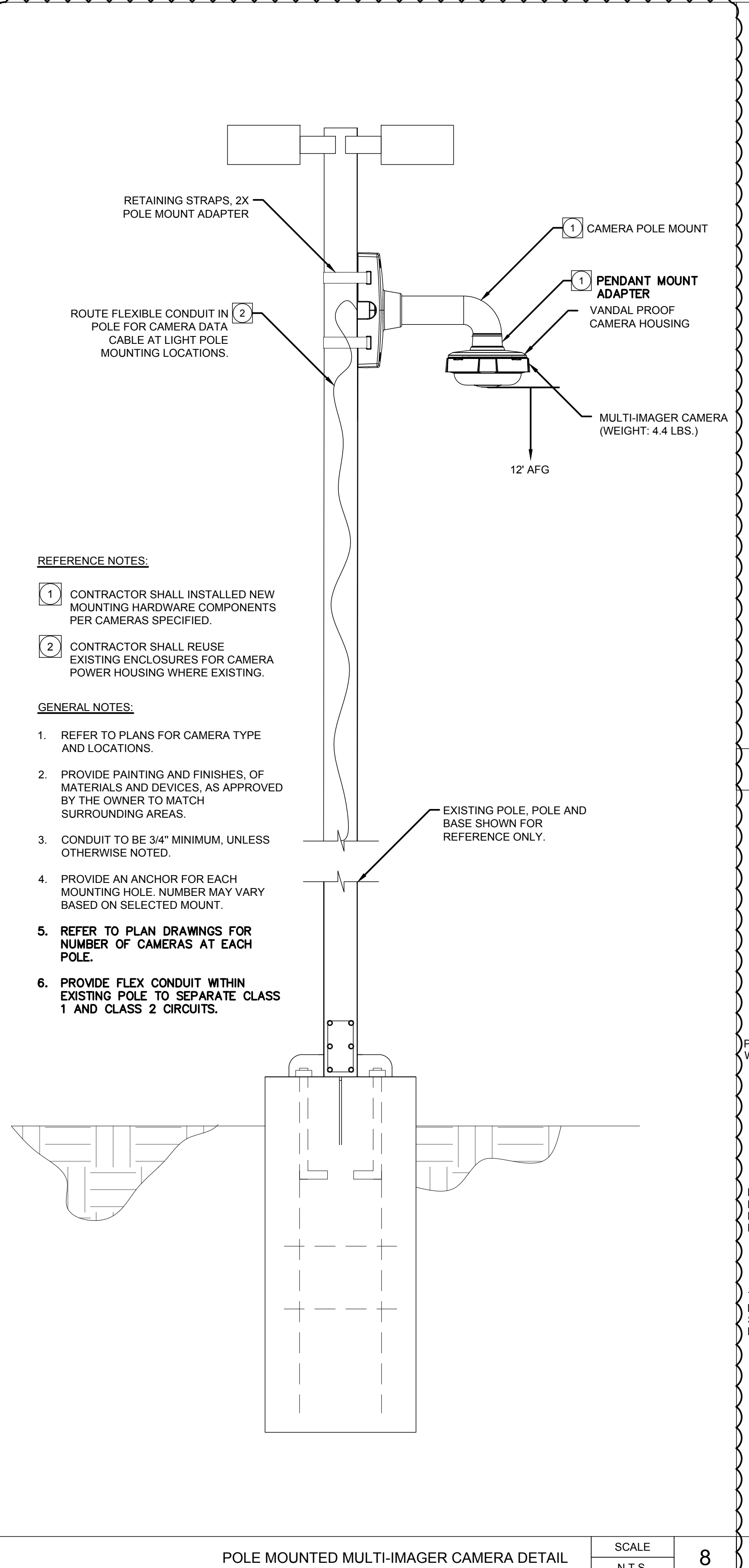




**REVISIONS:**

NO.	DESCRIPTION	DATE
2	ADDENDUM 2	01/03/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** E-501  
**SHEET TITLE:** DETAILS



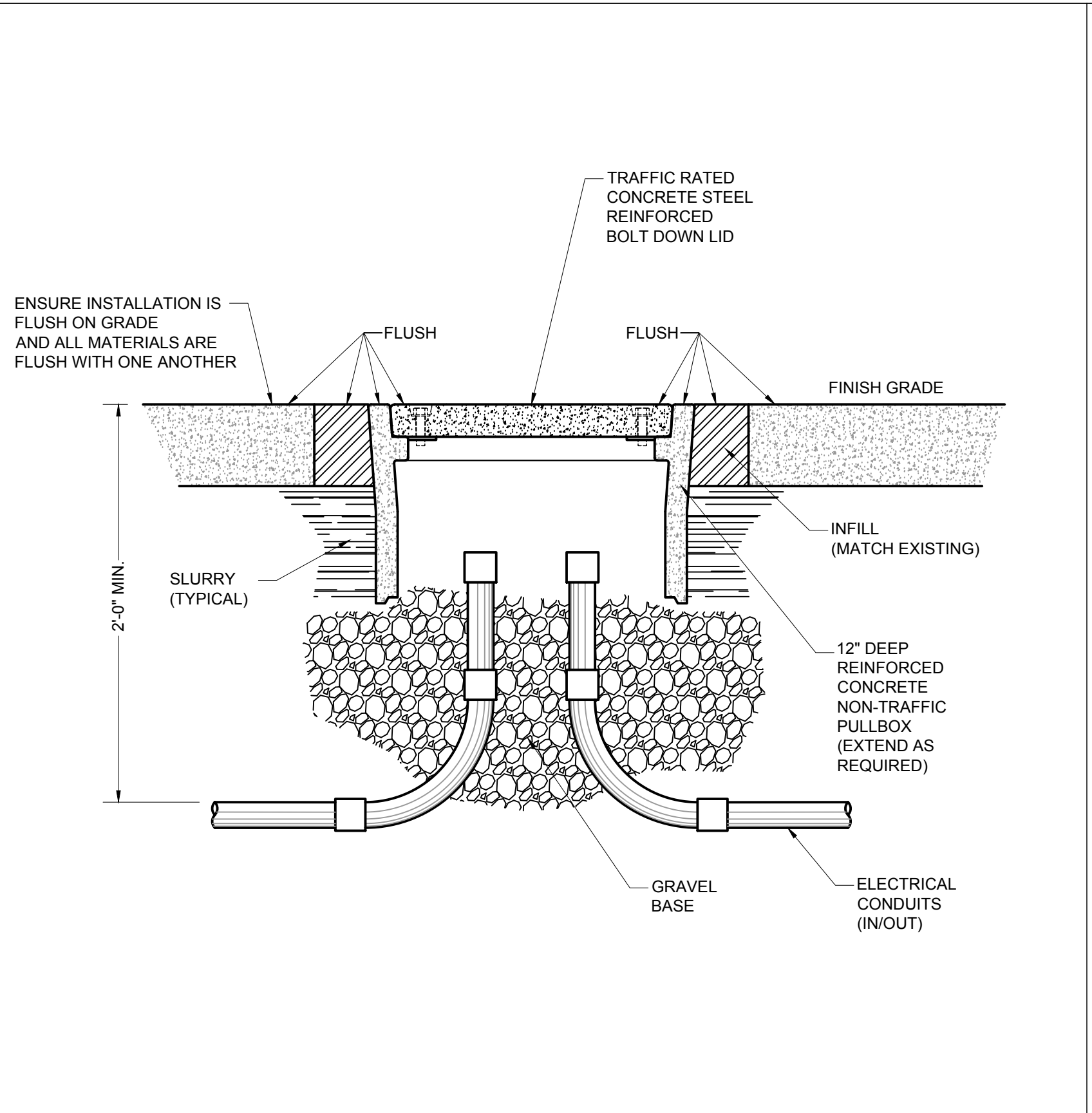
- REFERENCE NOTES:**
- CONTRACTOR SHALL INSTALLED NEW MOUNTING HARDWARE COMPONENTS PER CAMERAS SPECIFIED.
  - CONTRACTOR SHALL REUSE EXISTING ENCLOSURES FOR CAMERA POWER HOUSING WHERE EXISTING.
- GENERAL NOTES:**
- REFER TO PLANS FOR CAMERA TYPE AND LOCATIONS.
  - PROVIDE PAINTING AND FINISHES, OF MATERIALS AND DEVICES, AS APPROVED BY THE OWNER TO MATCH SURROUNDING AREAS.
  - CONDUIT TO BE 3/4" MINIMUM, UNLESS OTHERWISE NOTED.
  - PROVIDE AN ANCHOR FOR EACH MOUNTING HOLE. NUMBER MAY VARY BASED ON SELECTED MOUNT.
  - REFER TO PLAN DRAWINGS FOR NUMBER OF CAMERAS AT EACH POLE.
  - PROVIDE FLEX CONDUIT WITHIN EXISTING POLE TO SEPARATE CLASS 1 AND CLASS 2 CIRCUITS.

SCALE: N.T.S. 10

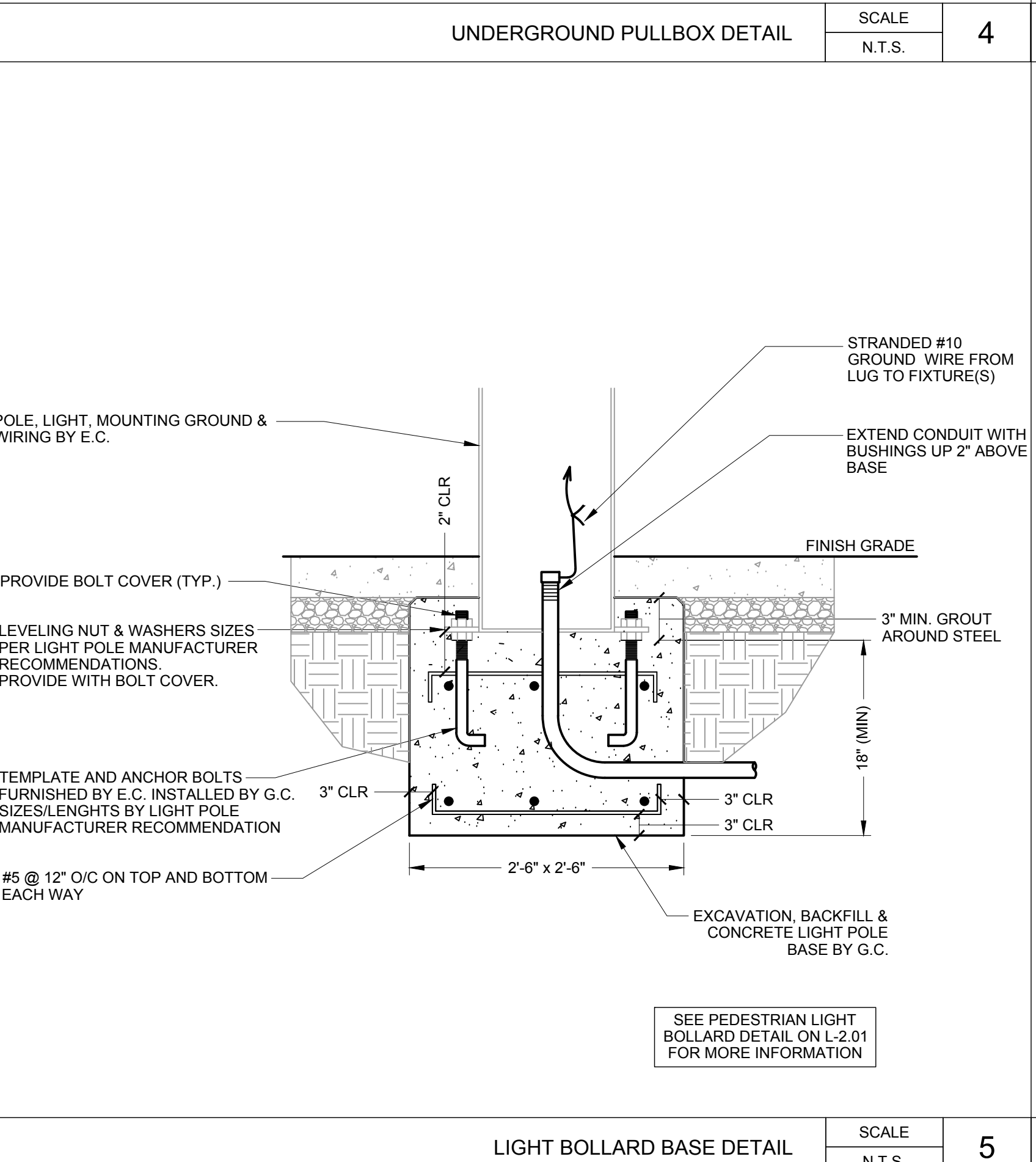
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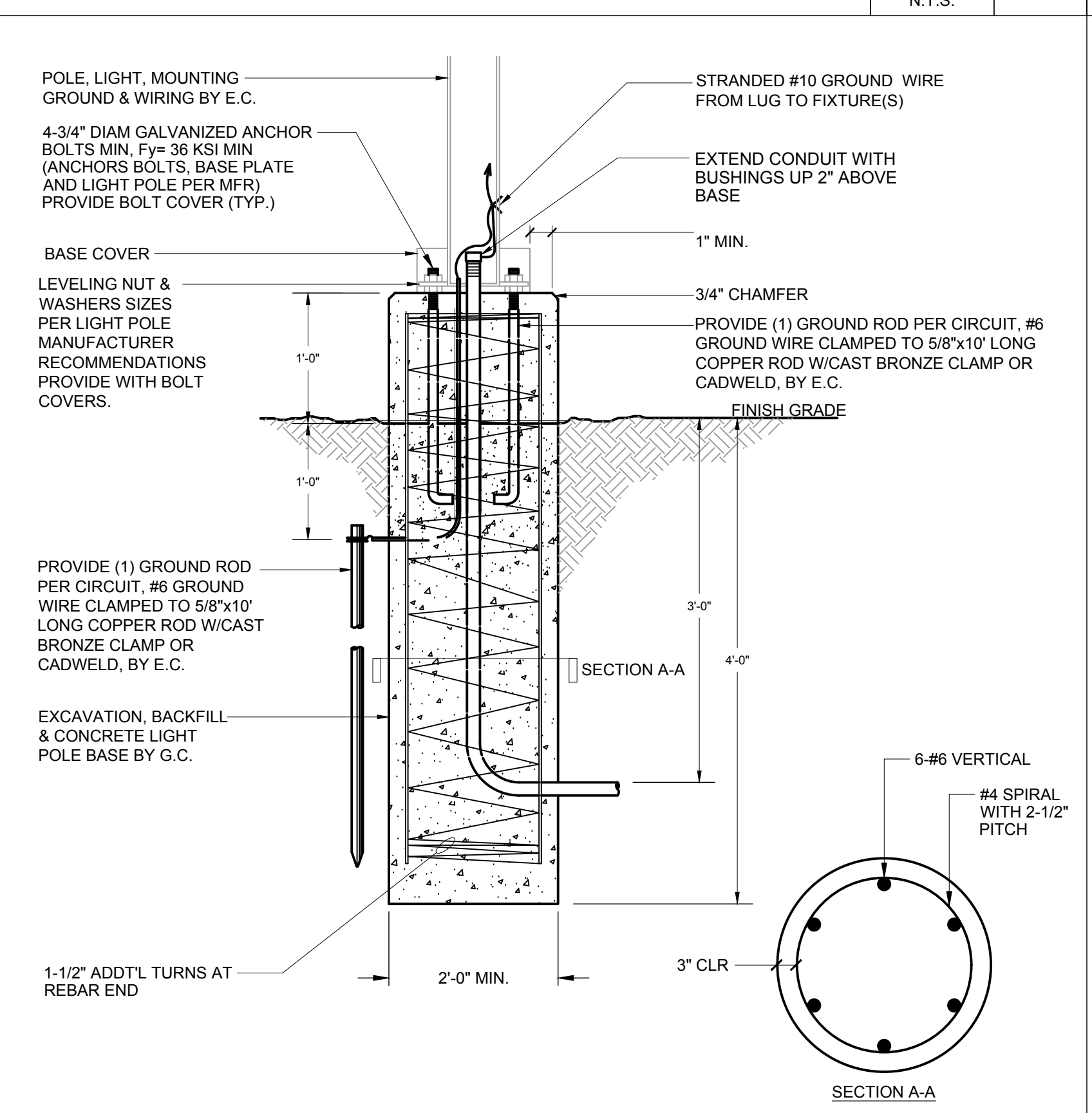
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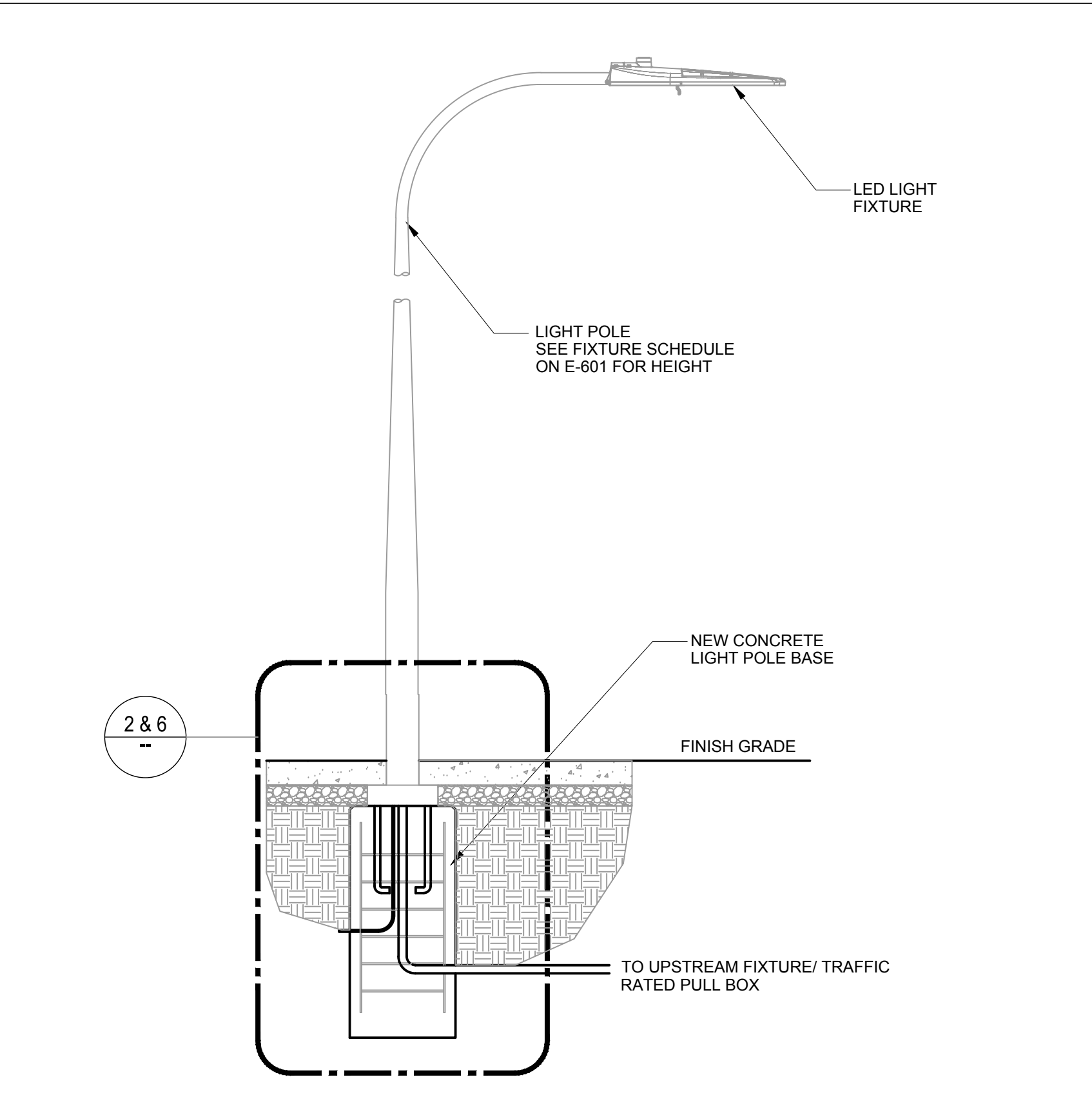
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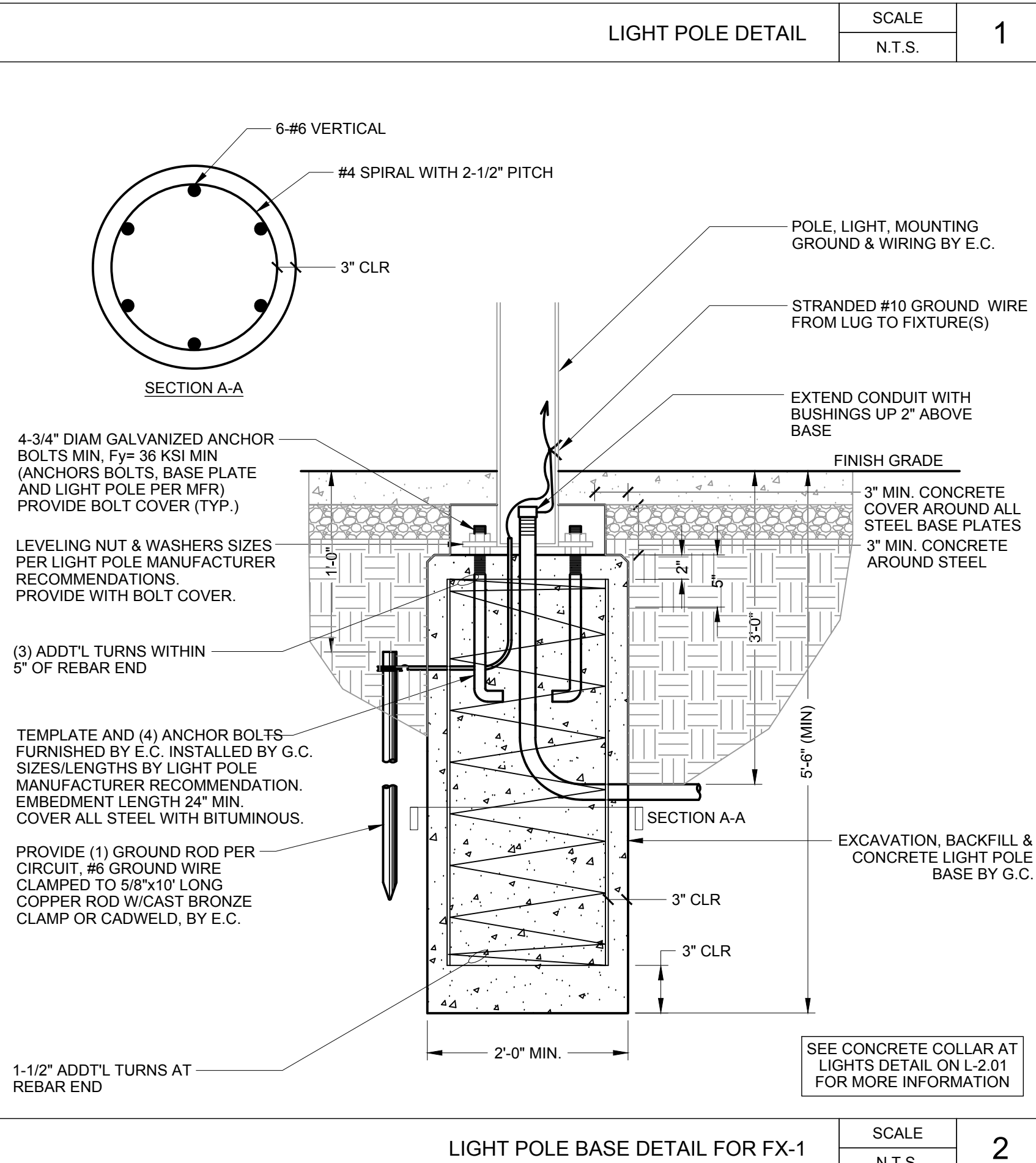
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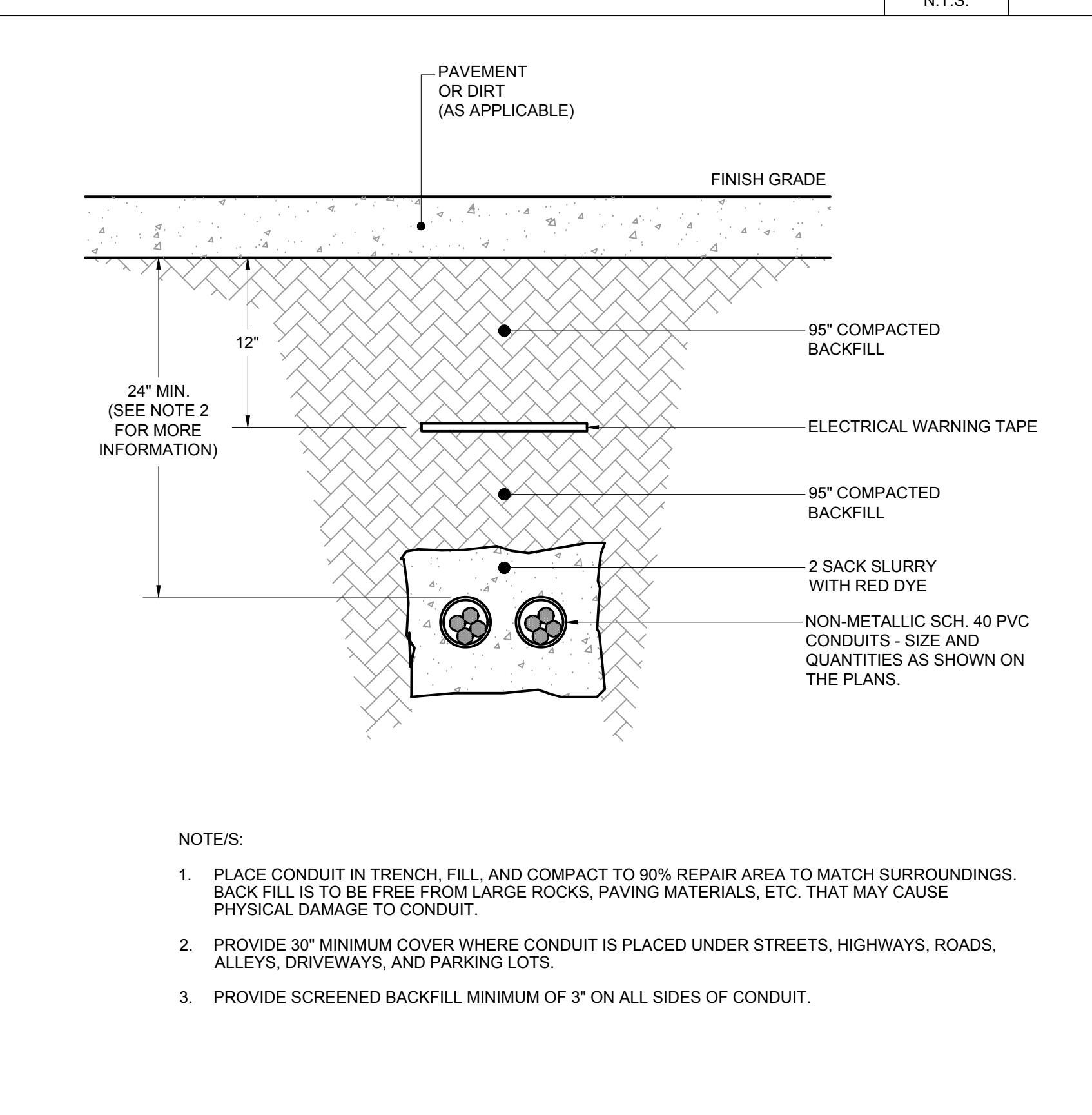
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SCALE: N.T.S. 1



SCALE: N.T.S. 2



SCALE: N.T.S. 3

- NOTE/S:**
- PLACE CONDUIT IN TRENCH, FILL, AND COMPACT TO 90% REPAIR AREA TO MATCH SURROUNDINGS. BACK FILL IS TO BE FREE FROM LARGE ROCKS, PAVING MATERIALS, ETC. THAT MAY CAUSE PHYSICAL DAMAGE TO CONDUIT.
  - PROVIDE 30" MINIMUM COVER WHERE CONDUIT IS PLACED UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.
  - PROVIDE SCREENED BACKFILL MINIMUM OF 3" ON ALL SIDES OF CONDUIT.

SECTION 01 32 13

CONSTRUCTION SCHEDULE

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Required procedures, preparation, submittals, reviews, updates, and revisions to the construction schedule.

1.02 RELATED SECTIONS

- A. Division 0.
- B. Section 01 11 00: Summary of Work.
- C. Section 01 12 16: Phasing of the Work.
- D. Section 01 29 73: Schedule of Values Procedures.
- E. Section 01 29 76: Progress Payment Procedures.
- F. Section 01 31 13: Project Coordination.
- G. Section 01 33 00: Submittal Procedures.
- H. Section 01 45 23: Testing and Inspection.
- I. Section 01 50 00: Construction Facilities and Temporary Controls.
- J. Section 01 78 36: Warranty Procedures.

PART 2 – PRODUCTS

2.01 SCHEDULING SOFTWARE

- A. Contractor shall utilize Primavera Project Planner™ for Windows® (P6) software (latest version) by Primavera Systems, Inc., Microsoft Project, or equivalent scheduling software to employ the Critical Path Method (CPM) in the development and maintenance of the construction schedule network using the Precedence Diagram Mode (PDM). The scheduling software shall be capable of being resource loaded with manpower and materials. It shall also be capable of generating time-scaled logic diagrams, resource histograms and profiles, bar charts, layouts and reports with any and/or all activity detail.

3

PART 3 – EXECUTION

3.01 SUBMITTALS

- B. Contractor shall retain a construction scheduler to work in enough capacity to perform all of the requirements outlined in this Section. Scheduler shall have a minimum of five (5) years' experience. The Scheduler shall be able to plan, coordinate, execute, and monitor a CPM schedule as required for this Project. Contractor will assign a Scheduler to: Develop the baseline schedule; update the schedule on a monthly basis, provide a Status Report of updated activities semi-monthly; submit Progress Schedule files monthly that reflect all revisions and updates corresponding to payment estimate periods; prepare and submit four-weeks look-ahead schedule weekly; and coordinate with the Contractor's Project Manager, Superintendent throughout the duration of the construction of the Project on schedule issues. Scheduler will cooperate with District Representative and shall be available on site for monitoring, maintaining and updating schedules in a timely manner. District

Representative has the right to refuse to accept the Scheduler based upon a lack of experience as required by this Section or based on lack of performance and timeliness of schedule submittals and of fragments on past projects. If District Representative does not accept the proposed Scheduler, Contractor shall within one (1) week of disapproval, propose another scheduler who meets the experience requirements stated above.

- C. Contractor shall submit two originals and three copies of all bar charts, reports and/or other required schedule data as outlined in this Section. Contractor shall electronically deliver the schedule file in its original format at the time of submittal (PDF and XER file formats).
- D. Contractor shall submit the Preliminary Construction Schedule within ten (10) calendar days after Notice to Proceed.
- E. Contractor shall submit the Proposed Baseline Schedule within fifteen (15) calendar days after Notice to Proceed.
- F. Contractor shall submit the Monthly Schedule Updates, Four-Week Rolling Schedules, and Recovery Schedules as required.

3.02 PRELIMINARY CONSTRUCTION SCHEDULE

- A. Contractor shall develop and submit a Preliminary Construction Schedule as required by this Section. It shall be submitted in computer generated network format and shall be organized by Activity Codes representing the Contractor’s intended sequencing of the Work. The Preliminary Construction Schedule shall include activities for the first 90 calendar days following the NTP such as mobilization, preparation of submittals, specified review periods, procurement items, fabrication items, milestones, and detailed construction activities.
- B. Upon District Representative’s acceptance of the Preliminary Construction Schedule, Contractor shall update the accepted Preliminary Construction Schedule each month (beginning with month 1) and submit these updates until Contractor’s Baseline Schedule is fully developed and accepted. Since updates to Preliminary Construction Schedule are the basis for payment to Contractor during the first three-month period, submittal and acceptance of such updates shall be a condition precedent to making of monthly payment, as referenced in General Conditions.
- C. Provide a written narrative describing Contractor’s approach to mobilization, procurement, and construction during the first ninety (90) calendar days including crew sizes, equipment and material delivery, site access, submittals, and permits.
- D. Submit Bar Charts, Tabular Reports, Electronic Data, and Plots in accordance with this Section.

3.03 BASELINE SCHEDULE CPM NETWORK

- A. Within fifteen (15) calendar days of the Notice to Proceed, Contractor shall submit a detailed Proposed Baseline Schedule that covers the entire duration of the Project. This schedule shall convey Contractor’s plan for organizing, managing, and executing the Work.
- B. The Proposed Baseline Schedule shall include activity descriptions, sequencing, logic relationships, duration estimates, by CSI section, resource loading, and other information as set forth in this Section.
  - 1. The Proposed Baseline Schedule shall include all Phases stipulated in Specification Section 01 12 16, the General Conditions, as well as all activities required to achieve timely completion of the Milestones.
  - 2. The Proposed Baseline Schedule shall include activities for: all construction activities, the NTP, Milestones, submittals, coordination drawings, re-submittals, procurement of materials and equipment, manufacturing, fabrication & delivery, owner furnished contractor installed items (OFCI), access restrictions, work restrictions, phased occupancy, testing, start-up, and contract closeout activities. The Proposed Baseline Schedule shall allow a period for District Representative and Architect to review each submittal, as



- required by Section 01 33 00 and other sections which require additional time for District Representative reviews and deferred submittal reviews by Division of State Architect (DSA).
3. The Proposed Baseline Schedule shall include start and completion dates for: temporary facilities, construction of mock-ups, prototypes, samples, punch list, District Representative interfaces and furnishing of items, separate work contracts, regulatory agency approvals, and permits required for performance of the Work.
  4. The Proposed Baseline Schedule shall allow for all foreseeable factors and risks which affect performance of the Work. Include allowances for weather conditions, applicable laws, transportation, traffic, air quality, noise, or any other applicable regulatory requirements, regulations or collective bargaining agreements pertaining to labor.
  5. Contractor shall not use any float suppression techniques such as preferential sequencing or logic, special lead/lag constraints or unjustifiable over-estimating of activity durations in preparing the Proposed Baseline Schedule except that “Finish No Later Than” constraints are permitted for Milestones. No “Zero Free Float” constraints, No “Early” Constraints, and No “Mandatory Finish” constraints shall be utilized.
  6. The Proposed Baseline Schedule shall include activity durations based on the crew sizes and equipment utilization that Contractor will maintain during the Project. No activity durations shall exceed fifteen (15) working days unless approved by the District Representative. Non-construction activities such as procurement, delivery, or submittal activities are exempted.
  7. Contractor shall include with the Proposed Baseline Schedule a written narrative report sufficiently comprehensive to explain the rationale behind Contractor’s approach to the Work including but not limited to: activity durations, manpower flow, average crew sizes, equipment requirements, production rates, constraints, holidays and other non-work days, potential problem areas, permits, coordination with regulatory authorities, utilities, separate work contracts and other parties, and long lead delivery items requiring more than thirty (30) days from the date of order to delivery to the Project site.
- C. At the District Representative’s request, furnish a detailed written explanation of Contractor’s basis for specific durations, logic, phasing, or other information. Such an explanation shall include Contractor’s rationale for selecting the number of crews, crew composition, number of shifts per day, number of hours in a shift, number of work days per week, construction equipment, and similar factors.
- D. The Proposed Baseline Schedule activities shall contain the following data:
1. Activity ID numbers shall consist of no more than eight alphanumeric characters. Following District Representative acceptance of the Baseline Schedule, Activity ID numbers shall not be changed.
  2. Activity Descriptions shall provide adequate information that readily identifies each activity, work scope, and location.
  3. Activity codes specified in Section 3.03.G shall be applied to each activity.
- E. At District Representative’s request, furnish a written explanation for each lead or lag relationship and each constrained date. Unjustifiable leads, lags, and constraints may result in District Representative’s rejection of the Proposed Baseline Schedule.
- F. Calendar Identification: In the scheduling software, identify all activities that will require overtime shifts, double shifts, and work on weekends or holidays. Identify non-work days and holidays in the schedule calendar. All milestones stipulated in Specification Section 01 12 16, Phasing of the Work shall be placed on a calendar with seven days per week. No holiday or non-work day restrictions are permitted on this calendar.

- G. Activity Codes: As a minimum, the Activity Codes shown in Table 1 below shall be assigned to each activity.

Table 1

<u>Name</u>	<u>Length</u>	<u>Description</u>
TYPE	2	Type of activity (for example: mobilization, submittals, procurement/fabrication, construction, milestones, etcetera.)
AREA	2	Area or Building (for example: Bldg A, Building B, Courtyard, Athletic Fields, Street Work, etcetera.)
STAG	2	Stage (for example: Foundations, Superstructure, Exterior, Interior, Roof, Floor Number etcetera.)
SBST	2	Substage (a specific area within a stage such as: main electrical room, kitchen, room number, etcetera.)
RESP	7	Responsible Party (subcontractor and/or trade)
SPEC	5	CSI section number

1. District Representative may require additional coding of activities. The mandatory activity code requirements listed in Table 1 are not to be construed as setting limits on Contractor’s management and coordination responsibilities, but are intended to guide Contractor in the administration of its contractual responsibilities.

- H. Milestones are designated dates in which Work or portions thereof are required to start and complete in accordance with the Contract Documents.

1. Where the term completion or similar terms are used in regards to a Milestone, it shall be construed to mean all portions of the Work in the indicated phase, area, and zone are complete and acceptable to District Representative. Where the term starts or similar terms are used in the designation of a Milestone, it shall be construed to mean a portion of the Work in the indicated phase, area, or zone is required to be commenced.
2. A Proposed Baseline Schedule extending beyond the Milestones or Contract Time will not be acceptable.
3. Finish Milestones shall be constrained with Late Finish (Finish No Later Than) type constraints in accordance with the dates stipulated in Specification Section 01 12 16, Phasing of the Work, Appendix A.
4. In the scheduling software, in the “Project Overview” menu, assign the “Project Must Finish By” date to match the Substantial Completion and Contract Completion Milestone dates stipulated in Specification Section 01 12 16, Phasing of the Work.
5. A Proposed Baseline Schedule indicating Work completed in less time than the Milestones and/or Contract Time will not be acceptable. Rather, Contractor shall show any unused contract time as float.
6. Milestones shall be placed on a calendar with seven days per week. No Holiday or non-workday restrictions are permitted on this calendar.

- I. The Critical Path shall be clearly indicated on all schedules submitted. An activity is defined as critical when its Total Float is less than or equal to zero (0) days.
  - J. Contractor shall allow Float time for Inclement Weather, Government Delay, and Free Float in the Baseline Schedule in accordance with the General Conditions.
  - K. Contractor shall submit computer generated reports and plots with the Proposed Baseline Schedule submittal package. Format shall display the following columns: Activity ID, Activity Description, Original Duration, Remaining Duration, Percent Complete, Early Start, Early Finish, Late Start, Late Finish, and Total Float. Unless otherwise noted, bar charts and reports shall be on 11 inch by 17 inch paper and bound.
    - 1. Bar charts shall be generated separately for:
      - a. Milestones only.
      - b. Activities sorted by Early Start date and organized by Project, Area, Stage, and Substage. (The network shall show continuous flow of all activities from left to right).
      - c. Activities sorted by Responsibility.
      - d. Summary level of all activities sorted by craft/trade and area.
    - 2. Tabular Reports:
      - a. Total Float sorted low to high
      - b. Predecessors and Successors sorted by Activity ID.
    - 3. Electronic data: Provide an electronic file in its original format of the Proposed Baseline Schedule. The electronic P6 files shall be saved in “.XER” and/or “.XML” type format.
    - 4. Plots: Produce a color bar chart on E-size paper (30-inch by 42-inch) organized (at a minimum) by project, area, stage, and substage.
  - L. District Representative will notify Contractor of any adjustments that are required for the Proposed Baseline Schedule to be accepted. Contractor shall perform any required adjustments to the Proposed Baseline Schedule and resubmit it for acceptance certifying in writing that all information contained therein complies with the Contract Documents. District Representative will review the Proposed Baseline Schedule for accuracy, reasonableness, and conformance with the Contract Documents and shall provide comments within ten days of receipt. Within five days after receiving District Representative comments, Contractor shall both incorporate changes to address District Representative concerns and resubmit the Proposed Baseline Schedule for District Representative back-check. This process will continue until the Proposed Baseline Schedule is accepted as the Baseline Schedule. Once accepted by District Representative, the Baseline Schedule will be the basis upon which Contractor shall prepare updates that record and report actual performance and progress. The accepted Baseline Schedule and subsequent Monthly Updates shall be the basis for consideration and analysis of requests for time extensions and Contractor progress payments.
  - M. District Representative acceptance of the Baseline Schedule or Contractor’s failure to identify or include an element of the Contract, shall not release Contractor’s obligation to complete all required Work in accordance with the Contract Documents.
- 3.04 REQUIREMENTS FOR MONTHLY SCHEDULE UPDATING
- A. Once the Baseline Schedule is accepted by District Representative, Contractor shall submit Monthly Schedule Updates beginning with month No. 1. The current month’s schedule update cannot be accepted until the previous Monthly Schedule Update has been accepted by District Representative.
  - B. Monthly Schedule Update Format

1. Initially, the Contractor shall status a current Monthly Schedule Update with actual Work progress only. No logic ties shall be modified. Status all Actual Start and Finish dates, adjust Remaining Durations where needed, and update Percent Completion of activities. If Contractor chooses to modify logic or add activities (other than out-of-sequence corrections) it shall be done in accordance with Section 3.06.
  2. Once the schedule is status in accordance with Section 3.04.B.1, Contractor shall print (and submit with Monthly Schedule Update) a report of “out-of-sequence” logic that results from the updating process. Contractor shall then correct all “out-of-sequence” logic to reflect Contractor’s actual Work sequence.
  3. During construction, Contractor may desire to break down specific activities into greater detail. If greater detail is necessary, then Contractor shall identify expanded activities such that the Baseline Schedule activities that the expanded activities originated from are readily apparent. Contractor shall not allow the aggregate duration of the expanded activities to exceed the duration assigned to the Baseline Schedule activity unless permitted by District Representative in writing.
  4. The Data Date for the Monthly Schedule Updates shall be the last day of the month. At a minimum, three days prior to the submission of the Monthly Schedule Update, Contractor shall meet in person with District Representative to present the proposed Percentages of Completion and Actual Start and Actual Finish dates. If the District Representative takes no exceptions to the percentages of completion and actual dates then the Monthly Schedule Update may be implemented.
  5. Written Narrative Report: Contractor shall include a written report to explain the Monthly Schedule Update. The narrative shall, at a minimum include the following headings with appropriate discussions of each topic:
    - a. Introduction.
    - b. A Summary of Work which was on-going This Pay Period.
    - c. Problem Areas and Proposed Solutions.
    - d. Critical Path.
    - e. Current and Anticipated Delays.
    - f. Coordination of Work with Others.
    - g. Milestone Status.
    - h. Denote changes in logic and added Fragnets.
    - i. Denote additions/deletions of activities.
  6. In updating the Schedule, Contractor shall not modify Activity ID numbers, schedule calculation rules/criteria, or the Activity Coding Structure required.
  7. Submit bar charts, tabular reports, written narrative, electronic data, and plots in accordance with this Section.
- C. Four-Week Rolling Schedule: At each Weekly Progress Meeting, Contractor shall present a Four-Week Schedule in Bar Chart format. It shall show one (1) week of actual and three (3) weeks of forecasted progress. The Four-Week Rolling Schedule shall be used as a basis for discussing progress and work planned during the three (3) weeks.
1. The Four-Week Rolling Schedule shall be based on the most recent District Representative Accepted Monthly Schedule Update. It shall include weekly updates to all construction, submittal, fabrication and procurement, and separate work contract activities. Contractor shall ensure that it accurately reflects the current progress of the Work.
  2. Contractor shall discuss actual dates and any variances to critical or near critical activities.

3. Upon request by District Representative, Contractor shall provide the Four-Week Rolling Schedule in electronic format.
4. If the Four-Week Rolling Schedule indicates activities are behind schedule, Contractor shall provide a Recovery Schedule in accordance with Section 3.05.

3.05 RECOVERY SCHEDULES

- A. If a Monthly Schedule Update indicates negative float greater than ten (10) workdays on a critical path as result of events not predicated by the General Conditions Contractor shall prepare a Proposed Recovery Schedule demonstrating Contractor’s plan to regain the time lost. The Recovery Schedule shall be submitted either in advance of or concurrent with the Monthly Schedule Update and Contractor progress request. Both the Monthly Schedule Update and the Proposed Recovery Schedule shall be based on the same percentages of completion and actual dates accepted by District Representative under Section 3.05 B.
- B. The Proposed Recovery Schedule shall be based on a copy of the Monthly Schedule Update for the calendar month during which the negative float first appears.
- C. The Proposed Recovery Schedule shall include a narrative that identifies the causes of the negative float on the critical path and provides Contractor’s proposed corrective action to ensure timely completion of all Milestones and the Substantial Completion Date. Contractor’s corrective actions shall include but are not limited to increasing concurrent operations, increasing labor, adding multiple shifts in a 24-hour period, and adding overtime.
- D. During any period of time when Contractor is found to be behind schedule by District Representative, the Monthly Schedule Update described above shall become a weekly requirement to provide a greater degree of focus on the timely completion of the Work. These Updates shall be submitted to District Representative every Monday morning. When Contractor is deemed by District Representative to be back on schedule, Contractor may revert to submitting the schedule monthly.
- E. Contractor’s progress payment may not be processed until District Representative accepts the Proposed Recovery Schedule. Following such an acceptance, the Proposed Recovery Schedule will be known as the Recovery Schedule and future Work will be performed by Contractor in accordance with it.

3.06 FRAGNETS AND TIME EXTENSION REQUESTS

- A. Float is not for exclusive use or benefit of either District Representative or Contractor but is an expiring resource available to both parties on a non-discriminatory basis. If required to meet specified Milestones, either party may utilize float. Adjustments to Milestones or Contract Time will only be authorized by Change Order and only to the extent the claimed adjustments exceed total float along the most critical path of the current Monthly Schedule Update in effect at the time of the claimed adjustments. The claimed adjustments to the Milestones and/or Contract Time must also cause the Beneficial Completion Date to exceed that currently indicated in the Monthly Schedule Update. Contractor alleged claimed adjustments to an existing negative float path will not receive consideration until the activity with the highest negative float is driven even further negative.
  1. Alleged Claimed adjustments to the Milestones or Contract Time will be administered in conjunction with those set forth in
- B. Pursuant to the float sharing requirements of this Section, the use of float suppression techniques such as preferential sequencing or logic, special lead or lag logic restraints, and extended activity times or durations are prohibited. The use of float time disclosed or implied by the use of alternate float suppression techniques shall be proportionally shared to benefit District Representative and Contractor. The use of any technique solely for the purpose of suppressing float will result District Representative rejection of the submitted Monthly Schedule Update.

- C. In the event Contractor believes the Project has suffered an adverse impact arising from events predicated by the General Conditions, Contractor may prepare a Time Extension Request by submitting a Schedule Fragnet and a written narrative outlining the detail of the impact. A Schedule Fragnet must demonstrate a critical path delay. Such a delay must adversely impact the Substantial Completion Date for Contractor to receive a time extension. To demonstrate such an impact successfully, Contractor shall prepare a Schedule Fragnet based on a copy of District Representative accepted Monthly Schedule Update for the calendar month during which the adverse impact occurred. This “copy” of the District Representative accepted Monthly Schedule Update shall however first be updated (by District Representative and Contractor jointly) with both Percentages of Completion and Actual Dates up to the day the delay commenced. This process will provide the “pre-delay” project status. Once District Representative and Contractor have agreed to the “pre-delay” project status, Contractor should make a copy of this “pre-delay” schedule and this copy is to be the starting point for Contractor’s Schedule Fragnet development. District Representative will evaluate the activities, logic, durations, etcetera, in the Schedule Fragnet and will evaluate if the adverse impact arose from events described by the General Conditions. The Fragnet shall also include Contractor-caused delays that affect the critical or near critical path in the network and should be accounted for in the Time Impact Analysis if overlapped at any point in time with District Representative -caused delay. If rain impact days were granted between the Start and Finish of District Representative -caused delay period, they should be accounted for in the Time Impact Analysis as well. Provided District Representative determines such an impact occurred, Contractor may be due a time extension equal to the number of proportioned days of variance/delay that resulted to the Substantial Completion Date.
- D. Activities added into a Schedule Fragnet to demonstrate the impact of adverse event shall be assigned a unique activity code. The Schedule shall be organized by this unique activity code.
- E. The Schedule Fragnet shall incorporate logic that accurately ties reflective of the adverse event to pre-event predecessor activities and post event successor activities.
- F. The format and components of a Schedule Fragnet submittal shall be in accordance with this Section and the General Conditions. It is crucial for the Fragnet to be submitted within the same month of discovery so it can be resolved during the monthly schedule update review. The notice shall be transmitted to District Representative within the stipulations outlined in the General Conditions.
- G. If District Representative accepts Contractor’s Schedule Fragnet and an extension is granted, a Change Order will be prepared. District Representative will advise what change order number the time extension will become. When Contractor receives this Change Order number, all the activities added to the Schedule Fragnet shall be given Activity Identification Numbers that corresponds with the Change Order number. Contractor shall resource-load the activities if required by District Representative. If resource loading is required, the resource loading shall include a breakdown of labor, material, and equipment quantities.
- H. If District Representative rejects Contractor’s Schedule Fragnet in part based on improper forecast logic or activity tasks then it shall be revised accordingly to conform to District Representative review comments and resubmitted. If the forecast logic and activity tasks cannot be agreed to then the pre-delay schedule outlined in Section 3.06.C shall be compared to the actual as-built data in the succeeding month of the encountering issue, event, condition, circumstance, and/or cause. The variance to the project between the pre-delay and post-delay schedules shall be discussed in Contractor’s written narrative and proportioned between the different parties involved in the delay.
- I. If District Representative rejects Contractor’s Schedule Fragnet in whole then Contractor may follow the procedures set forth in the General Conditions.

3.07 FAILURE TO COMPLY WITH REQUIREMENTS

- A. At any time during the project if Contractor fails to comply with the specified requirements, District Representative reserves the right to engage independent estimating and scheduling consultants to

fulfill these requirements. Upon notice to Contractor, District Representative shall assess against Contractor, incurred costs for these additional services.

- B. In such an event, District Representative will require, and Contractor shall participate and provide requested information to ensure the resulting Milestones Schedule accurately reflects Contractor's plan to execute the Work in compliance with the Contract Documents. If it becomes necessary for District Representative to recommend logic or duration revisions as a result of Contractor failure to furnish acceptable data, and if Contractor has objections to the recommendations, Contractor shall provide notice to District Representative within three (3) days and Contractor shall provide an acceptable alternate plan. If Contractor fails to so note any objections and provide an acceptable alternate plan, or if Contractor implements the recommendations of District Representative without so noting any objections, Contractor will be deemed to have waived all objections and concurred with the recommended logic/duration revisions provided by Architect and/or District Representative
- C. Submittal of any Monthly Schedule Updates are subject to review and acceptance by District Representative. District Representative retains the right, including, but not limited to the General Conditions, to withhold progress payments in whole or part until Contractor submits a Monthly Schedule Update acceptable to District Representative.

3.08 CONTRACTOR RESPONSIBILITY

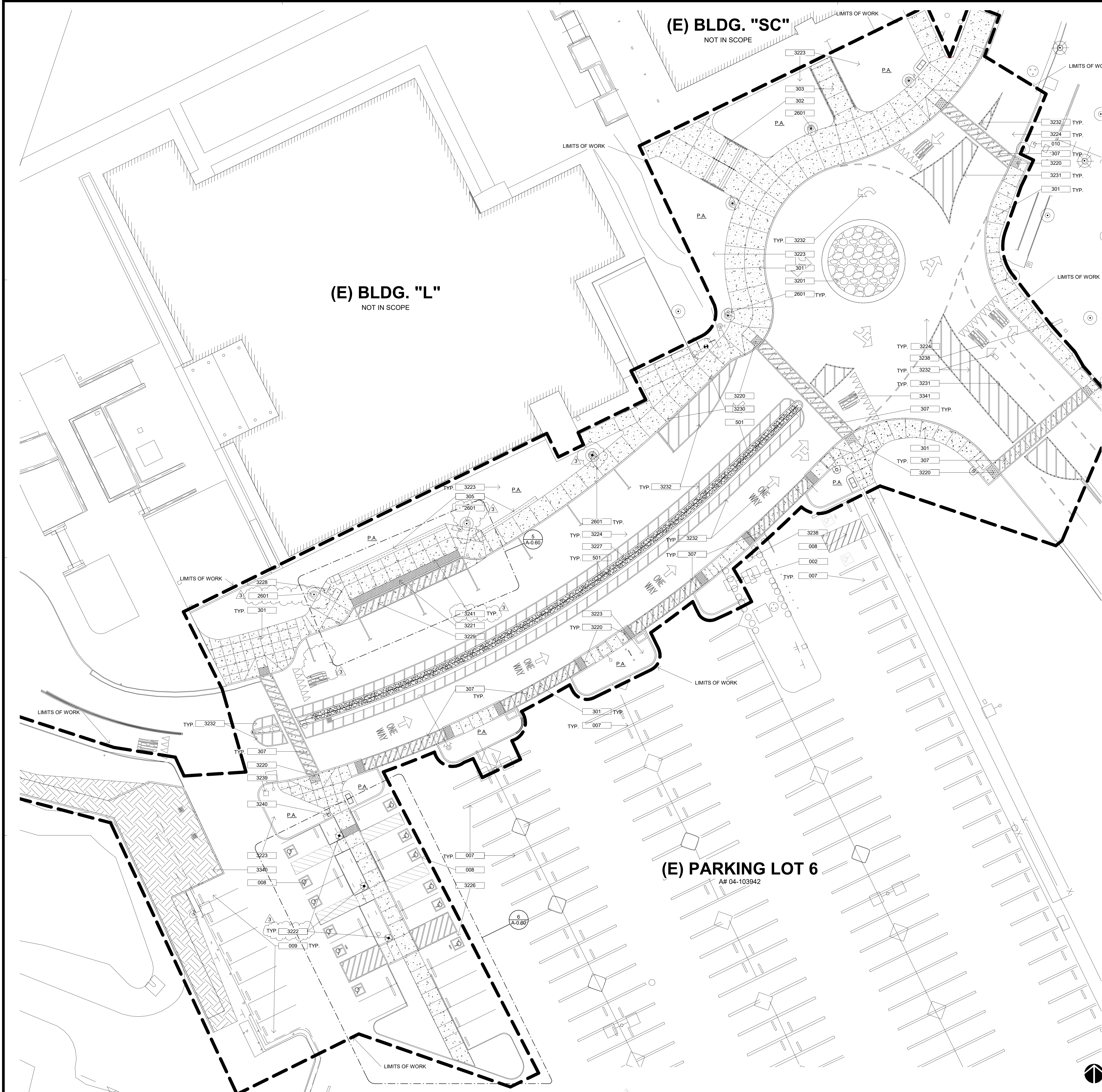
- A. Nothing in this Section shall be construed to be a usurpation of Contractor authority, responsibility, and obligation to plan and schedule Work as Contractor deems necessary, subject to all other requirements of the Contract Documents.
- B. Contractor shall involve the subcontractors, manufacturers, and suppliers in the development and periodic updating of the schedule.

3.09 RECORD DOCUMENTS

- A. Prior to Contract Completion of the Work, Contractor shall submit an as-built time-scaled network diagram reflecting the actual dates of all activities.

END OF SECTION 01 32 13





?	DESCRIPTION
002	EXISTING ELECTRICAL TRANSFORMER TO REMAIN AND BE PROTECTED-IN-PLACE AT ALL TIMES.
007	EXISTING PARKING STALLS NOT IN LIMITS OF WORK TO BE PROTECTED-IN-PLACE
008	EXISTING ACCESSIBLE PARKING STALLS AND ACCESS AISLE REMAINING, TO BE RE-SEALED AND RE-STRIPED. REFER TO CIVIL DEMOLITION AND IMPVTS DWGS. FOR ADDITIONAL INFO. ON ACCESSIBLE PARKING STALLS BEING DEMOLISHED
009	EXISTING PARKING STALLS TO BE RESTRIPTED AFTER (N) ADJACENT SCOPE IS COMPLETED.
010	EXISTING MONUMENT SIGNAGE TO BE PROTECTED-IN-PLACE AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.
301	NEW CONCRETE PEDESTRIAN PAVING, PER CIVIL DWGS. REFER TO LANDSCAPE DWGS. FOR COLOR AND FINISH OF SURFACE
302	NEW CONCRETE STAIRS W/ STAINLESS STEEL HANDRAILS ON EACH SIDE - REFER TO LANDSCAPE DWGS. AND DETAIL 2/L-2.02
303	NEW CONCRETE ACCESSIBLE RAMP W/ STAINLESS STEEL HANDRAILS ON EACH SIDE - REFER TO LANDSCAPE DWGS. AND DETAIL 1/L-2.02
305	NEW POURED-IN-PLACE CONCRETE SEATWALL, PER LANDSCAPE DWGS. AND DETAIL 2/L-2.01
307	NEW ACCESSIBLE CONCRETE PEDESTRIAN CROSSWALK, PER CIVIL DWGS. AND DETAILS
501	NEW STAINLESS STEEL GUARDRAIL FENCING CABLE SYSTEM, PER LANDSCAPE DETAIL 3/L-2.01
2601	NEW EXTERIOR LIGHT FIXTURE POLE W/ CONCRETE COLLAR, PER ELECTRICAL DWGS. AND FIXTURE SCHEDULE AND LANDSCAPE DWG. FOR COLLAR
3201	NEW COBBLE PAVING AT LANDSCAPE MEDIAN - REFER TO LANDSCAPE DRAWINGS AND DETAIL 5/L-2.01
3220	NEW ACCESSIBLE CURB RAMP WITH DETECTABLE WARNING SURFACE, PER CIVIL DWGS. AND DETAILS
3221	NEW CAST-IN-PLACE TRUNCATED DOME AT ACCESSIBLE LOADING ZONE, PER CIVIL DWGS. AND DETAILS
3222	NEW PEDESTRIAN LIGHT AND STRUCTURAL BOLLARD, PER LANDSCAPE DWGS. AND DETAIL 3/L-2.02
3223	NEW LANDSCAPE AND PLANTING AREA, PER LANDSCAPE DWGS.
3224	NEW ASPHALT PAVEMENT AREA, PER CIVIL DWGS. AND DETAILS
3226	NEW ACCESSIBLE PARKING STALLS AND ACCESS AISLES, INCLUDING SITE IMPROVEMENTS TO ADJACENT CONCRETE PATH OF TRAVEL, PER DETAIL 6/A-0.60 AND CIVIL DWGS.
3227	NEW COBBLE PAVING MEDIAN BELOW GUARDRAIL CABLE SYSTEM - REFER TO LANDSCAPE DRAWINGS AND DETAIL 5/L-2.01
3228	RELOCATION OF EXISTING LIBRARY BOOKDROP BIN ANCHORED TO CONCRETE PAD, PER LANDSCAPE DWGS. AND DETAIL 7/L-2.01
3229	PAINTED 60-IN. WIDE ACCESS AISLE SERVING THE ACCESSIBLE PULL-UP SPACES AT THE PASSENGER DROP-OFF AND LOADING ZONE ACCESS AISLE - REFER TO ARCH. SHT. A-0.60 AND CIVIL DWGS. FOR ADD'L. INFO.
3230	ROLLING CURB AREA TO ACCESS LIBRARY LOADING/DELIVERY AREA. REFER TO CIVIL DWGS AND DETAIL 8/C-5.0 FOR ADD'L. INFO.
3231	NEW BOTTS' DOTS ROAD MARKERS - SEE SHT. A-0.40 FOR CONFIGURATION OF DOTS
3232	NEW ASPHALT ROAD PAVEMENT MARKINGS - SEE SHT. A-0.41 FOR ADD'L. INFO. ON REQ'D PAVEMENT MARKINGS.
3238	NEW SITE DIRECTORY MONUMENT SIGNAGE - SEE ELEVATION DTL. 17/A-0.50 AND DETAILS 5, 6, 7 & 8 ON SHT. A-0.51 FOR ADD'L. INFO. ON SIGNAGE.
3239	NEW PARKING LOT MONUMENT SIGNAGE - SEE ELEVATION DTL. 18/A-0.50 AND DETAILS 1, 2, 3 & 4 ON SHT. A-0.51 FOR ADD'L. INFO. ON SIGNAGE.
3240	NEW LOCATION OF EXISTING PARKING KIOSK AND SIGNAGE
3241	NEW PEDESTRIAN SECURITY BOLLARD, PER LANDSCAPE DWGS. AND DETAIL 4/L-2.01
3340	NEW BIOFILTRATION AREA FOR REQUIRED WQMP (WATER QUALITY MANAGEMENT PLAN), PER CIVIL DWGS.
3341	READJUSTED EXISTING EDISON ELECTRICAL VAULT LOWERED TO MATCH NEW GRADE ELEVATIONS AND CONVERTED FOR VEHICLE GRATING

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**  
 8045 E. Chapman Avenue, Orange, CA 92669



**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM 3	01/16/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** A-0.10  
**SHEET TITLE:** ENLARGED SITE PLAN

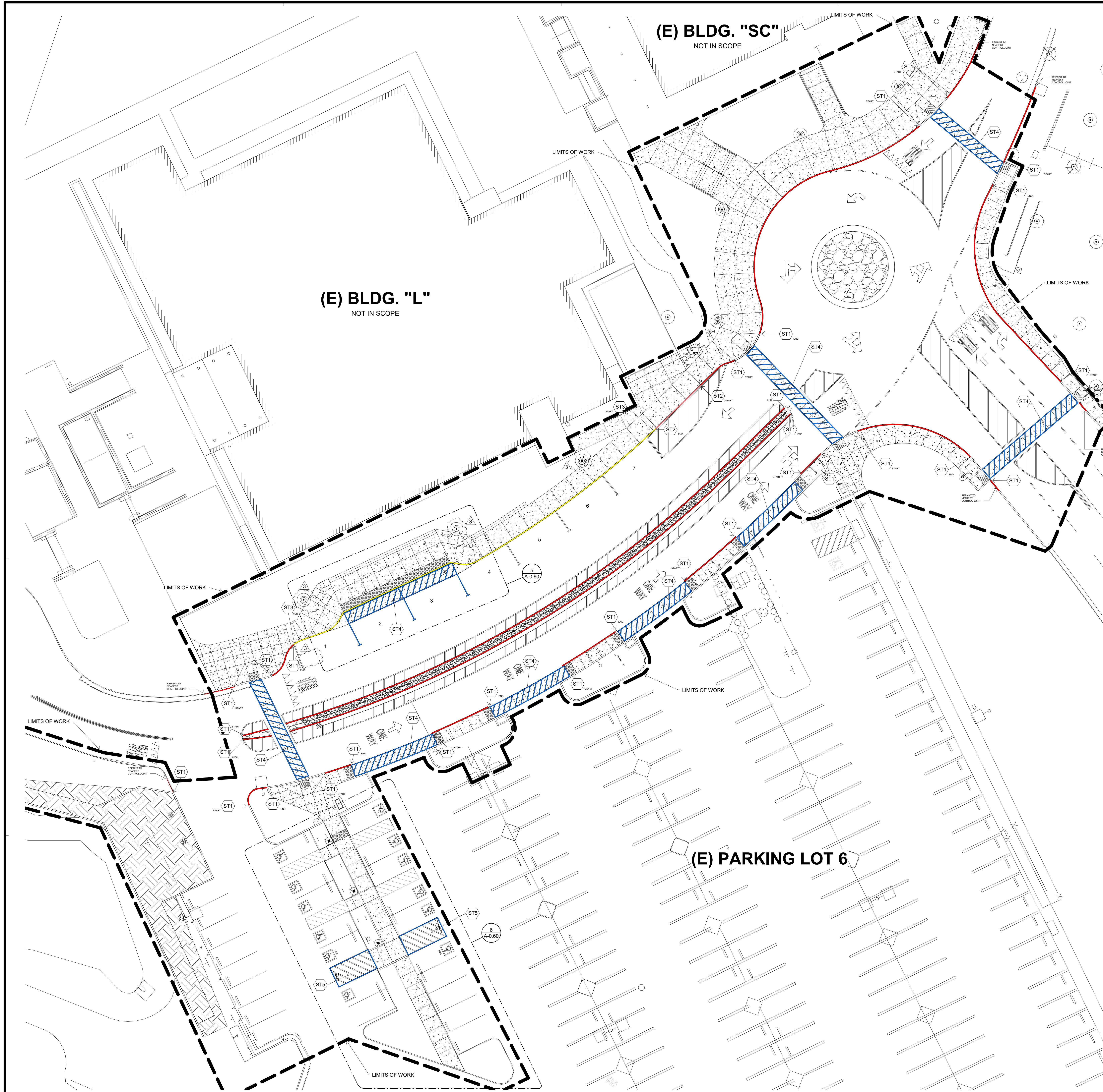
- KEYNOTES**
- AREA OF WORK FOR THIS PROJECT
- NOTES:**
- FOR LOCATIONS OF ALL REQUIRED PAINTED CURBS, REFER TO SHT. A-0.20.
  - FOR INFO. ON LOCATIONS OF ALL ASPHALT PAVEMENT STRIPING AND MARKINGS, REFER TO SHT. A-0.20.
  - REFER TO SHT. A-0.30 FOR LOCATIONS OF ALL REQUIRED SIGNAGE.
  - REFER TO CIVIL, LANDSCAPE, ELECTRICAL, AND ARCHITECTURAL DRAWINGS FOR FULL SCOPE OF WORK FOR DEMOLITION AND IMPROVEMENTS WITHIN LIMITS.

**ENLARGED SITE PLAN**

**SVA ARCHITECTS**  
 6 HUTTON CENTRE DR, SUITE 1150 SANTA ANA, CA 92707  
 T 949.609.3380 WWW.SVA-ARCHITECTS.COM

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(E) BLDG. "SC"  
NOT IN SCOPE

(E) BLDG. "L"  
NOT IN SCOPE

(E) PARKING LOT 6

- AREA OF WORK FOR THIS PROJECT
- NOTE:**  
REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF SITE WORK FOR DEMOLITION AND IMPROVEMENTS WITHIN LIMITS.
- RED CURB - FIRE LANE IDENTIFICATION. REFER TO DETAIL 1 / A-0.40
  - RED ROLLING CURB - FIRE LANE IDENTIFICATION. REFER TO DETAIL 2 / A-0.40
  - YELLOW CURB - PASSENGER DROP-OFF AND LOADING ZONE IDENTIFICATION. REFER TO DETAIL 3 / A-0.40
  - BLUE STRIPING - PEDESTRIAN CROSSING AND ACCESS. PARKING STALLS. REFER TO DETAIL 8 / A-0.60

**STRIPING PLAN LEGEND**

- ST1 RED CURB - FIRE LANE IDENTIFICATION. REFER TO DETAIL 1/A-0.40
- ST2 RED ROLLING CURB - FIRE LANE IDENTIFICATION. REFER TO DETAIL 2/A-0.40
- ST3 YELLOW CURB - PASSENGER DROP-OFF AND LOADING ZONE IDENTIFICATION. REFER TO DETAIL 3/A-0.40
- ST4 BLUE STRIPING - PEDESTRIAN CROSSING AND ACCESS. PARKING STALLS. REFER TO DETAIL 8 / A-0.60, PER CAMPUS STANDARD
- ST5 ACCESSIBLE/ADA PARKING ACCESS AISLE. REFER TO DETAIL 10 / A-0.60

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
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3	ADDENDUM 3	01/16/2023

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SHEET NUMBER: **A-0.20**  
SHEET TITLE:

**ENLARGED STRIPING PLAN**



6 HUTTON CENTRE DR, SUITE 1150 SANTA ANA, CA 92707  
T 949.609.3380 WWW.SVA-ARCHITECTS.COM

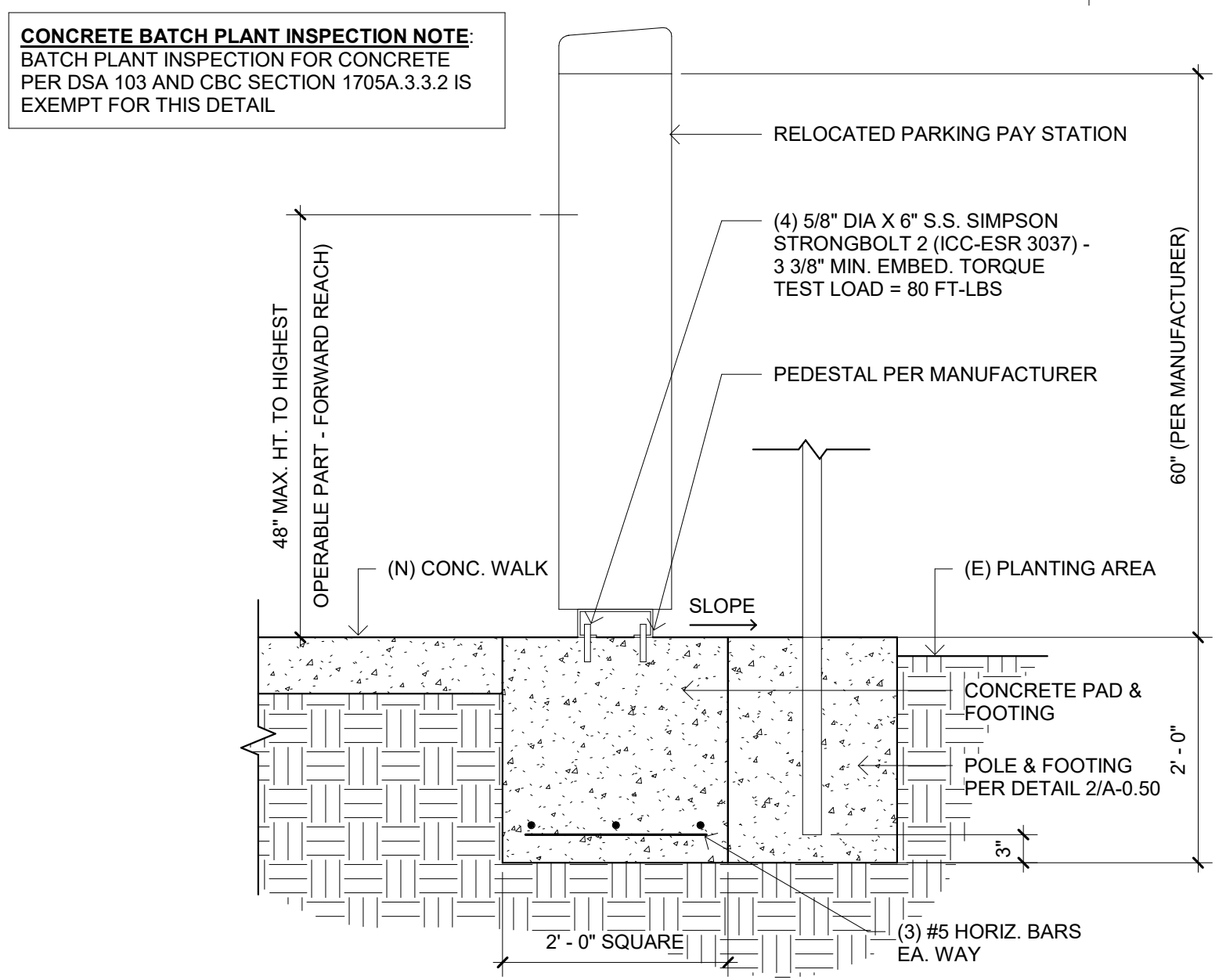
**NOTE:**  
FOR ADD'L INFO. ON PAVEMENT MARKINGS REFER TO SHTS. A-0.40 AND A-0.41

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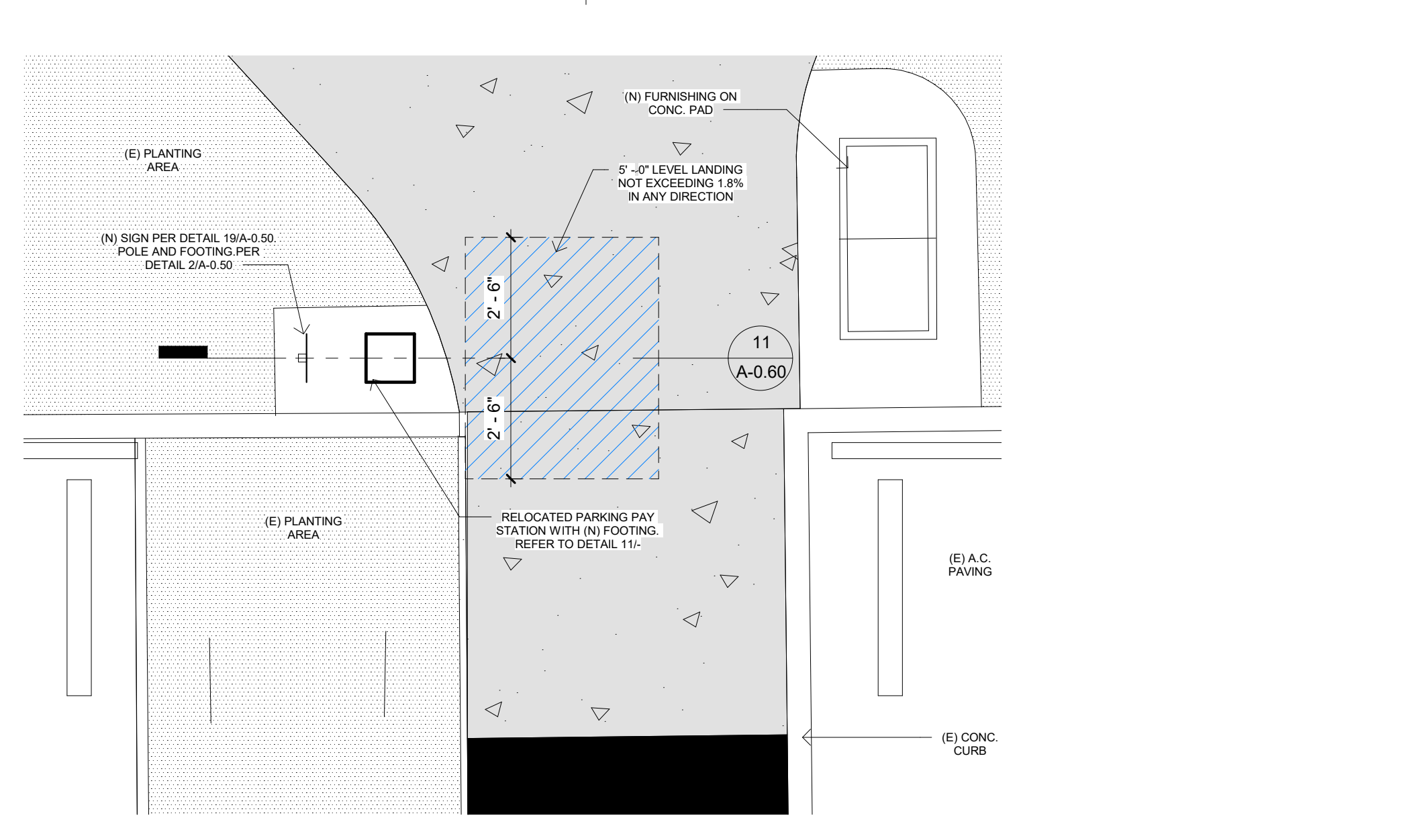




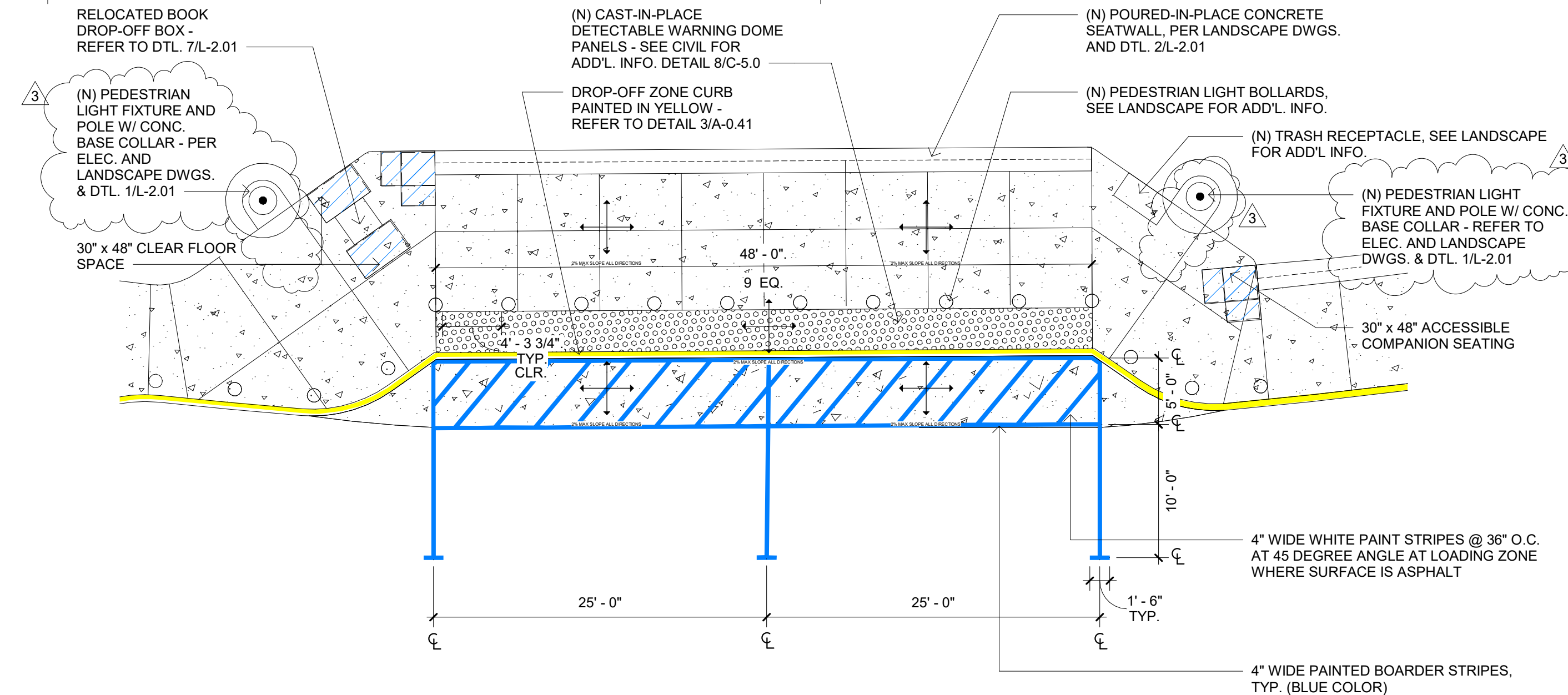




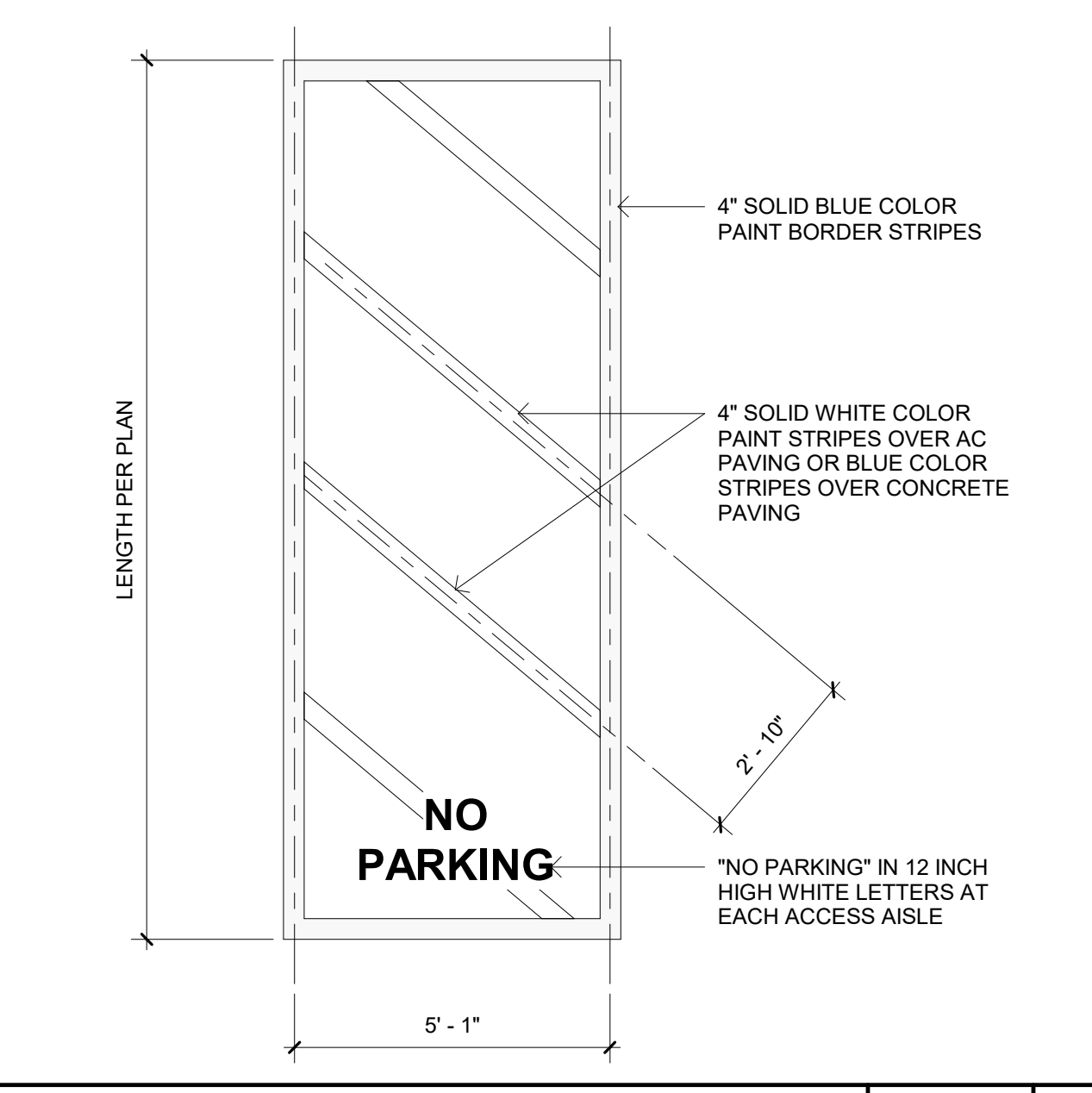
**PAY STATION FOOTING** 3/4" = 1'-0" 11



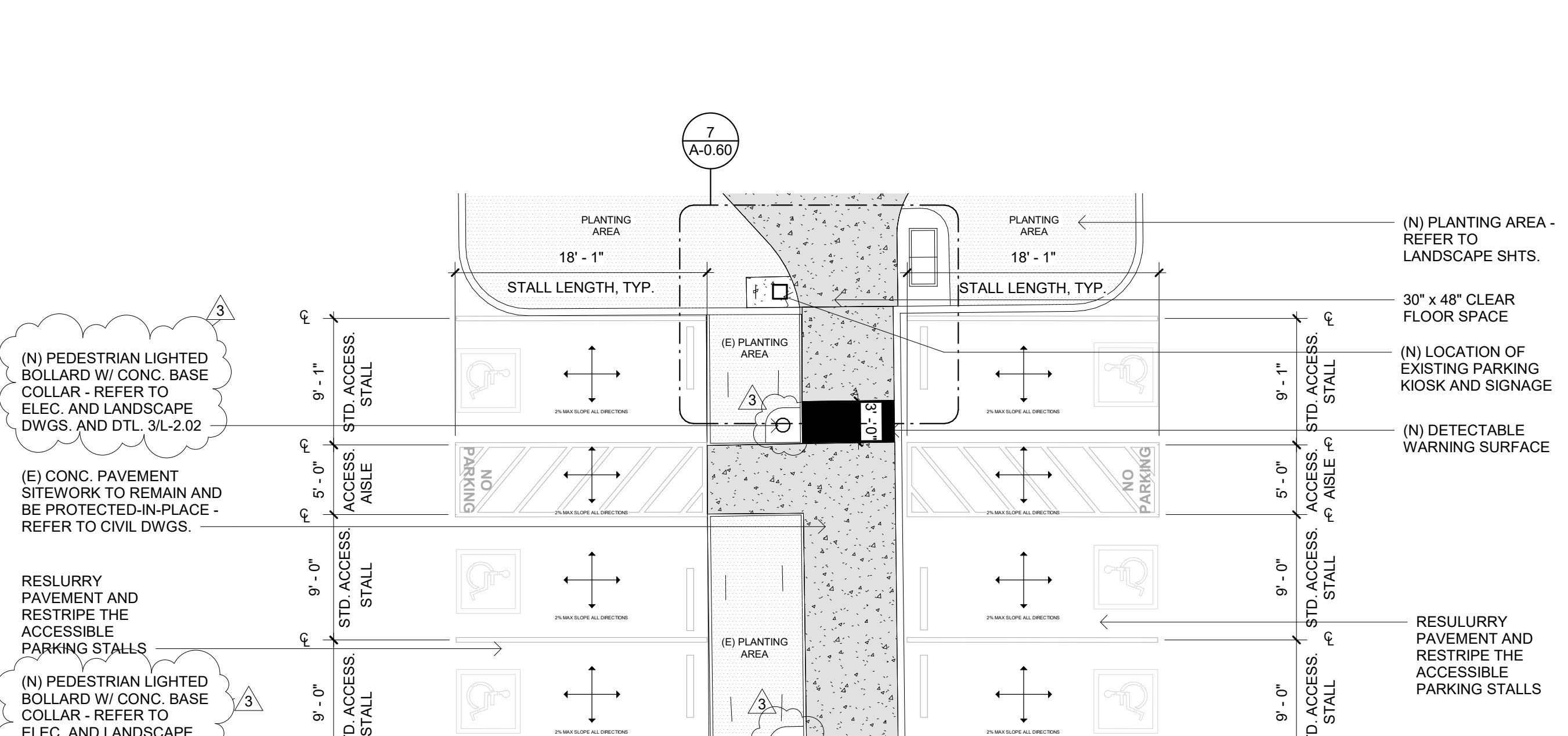
**ENLARGED PLAN OF RELOCATED PARKING PAY STATION** 3/8" = 1'-0" 7



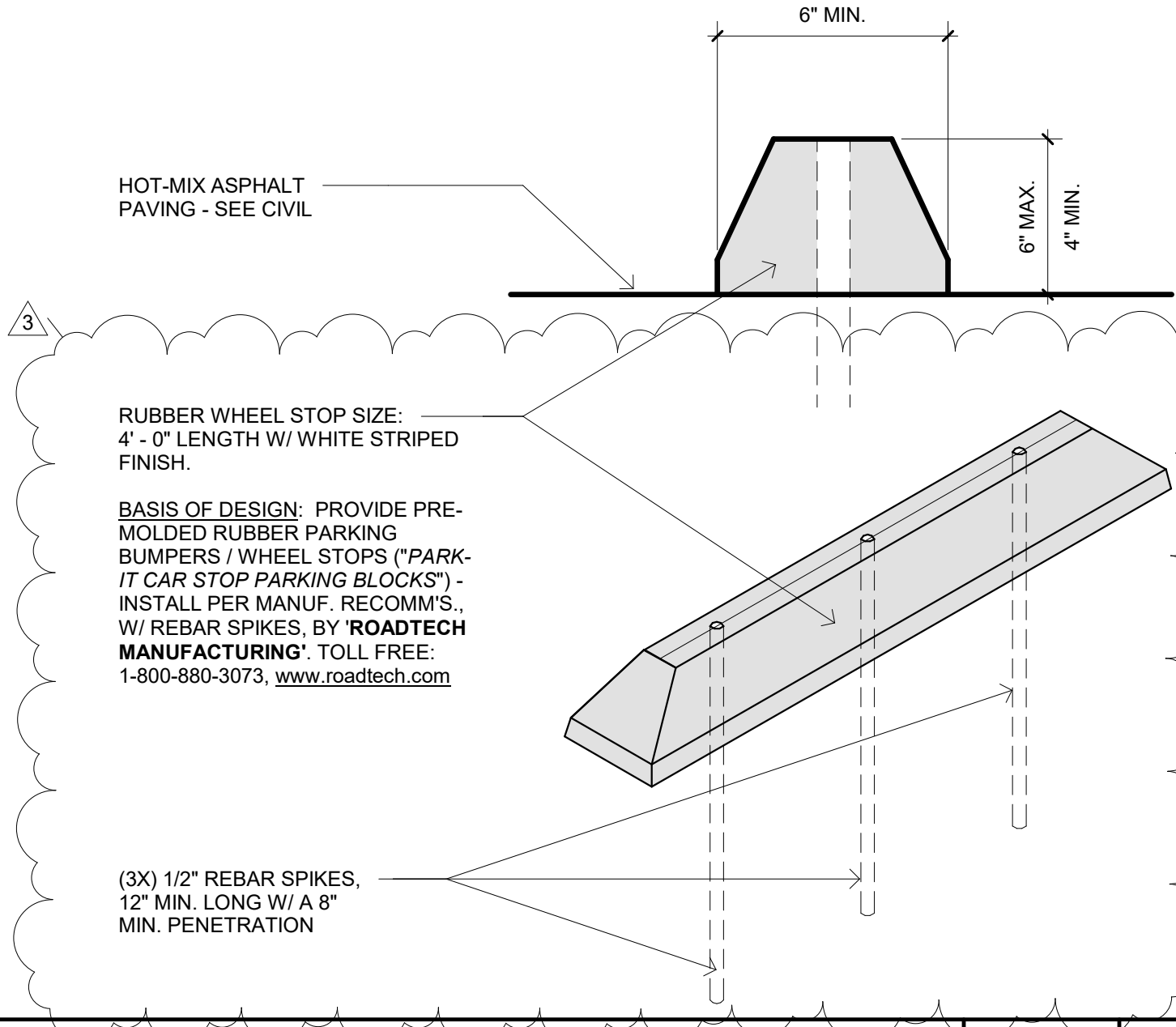
**ENLARGED PLAN OF NEW PASSENGER DROP-OFF AND LOADING ZONE ACCESS AISLE** 1/8" = 1'-0" 5



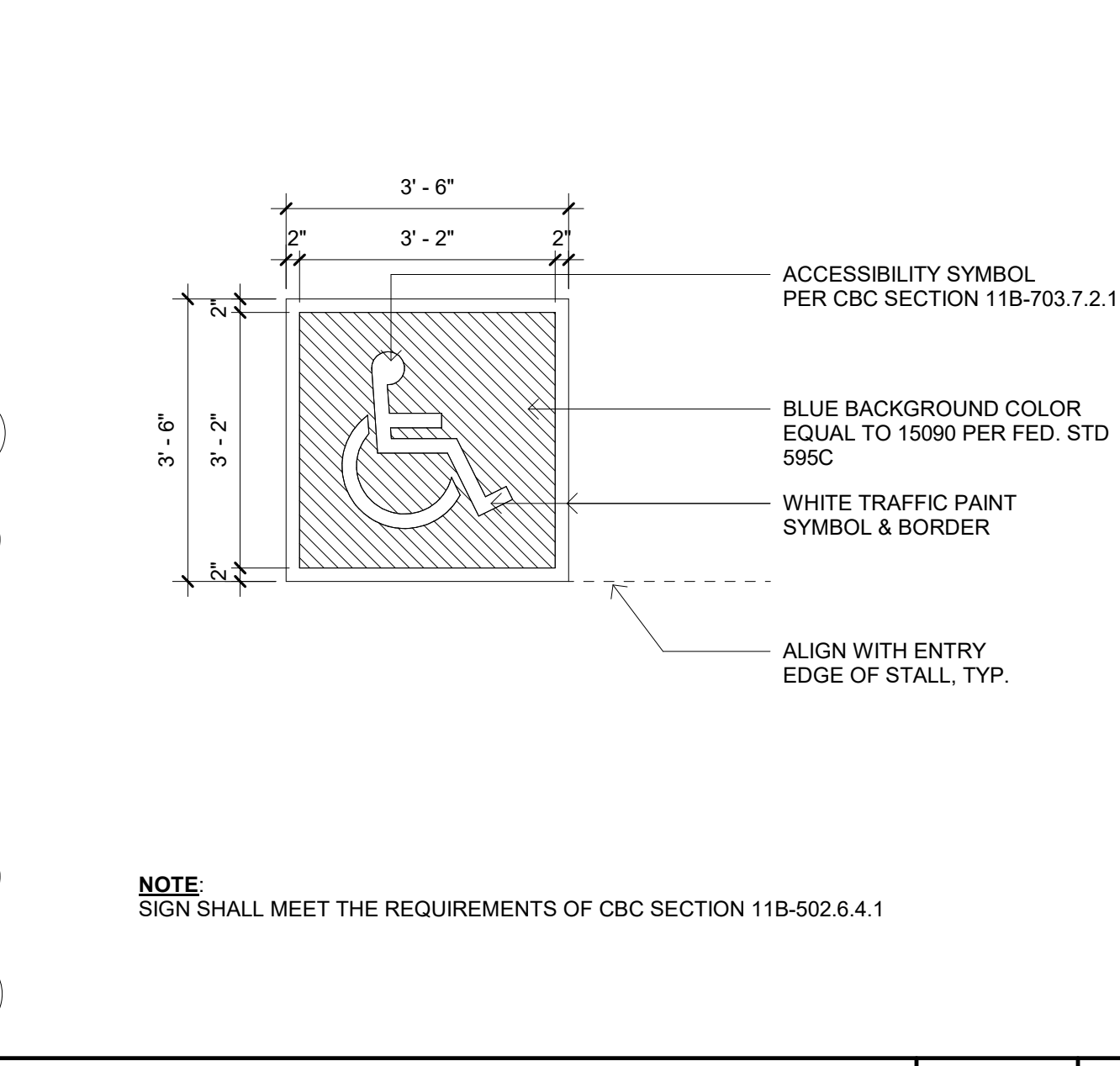
**ACCESS AISLE STRIPING** 3/8" = 1'-0" 10



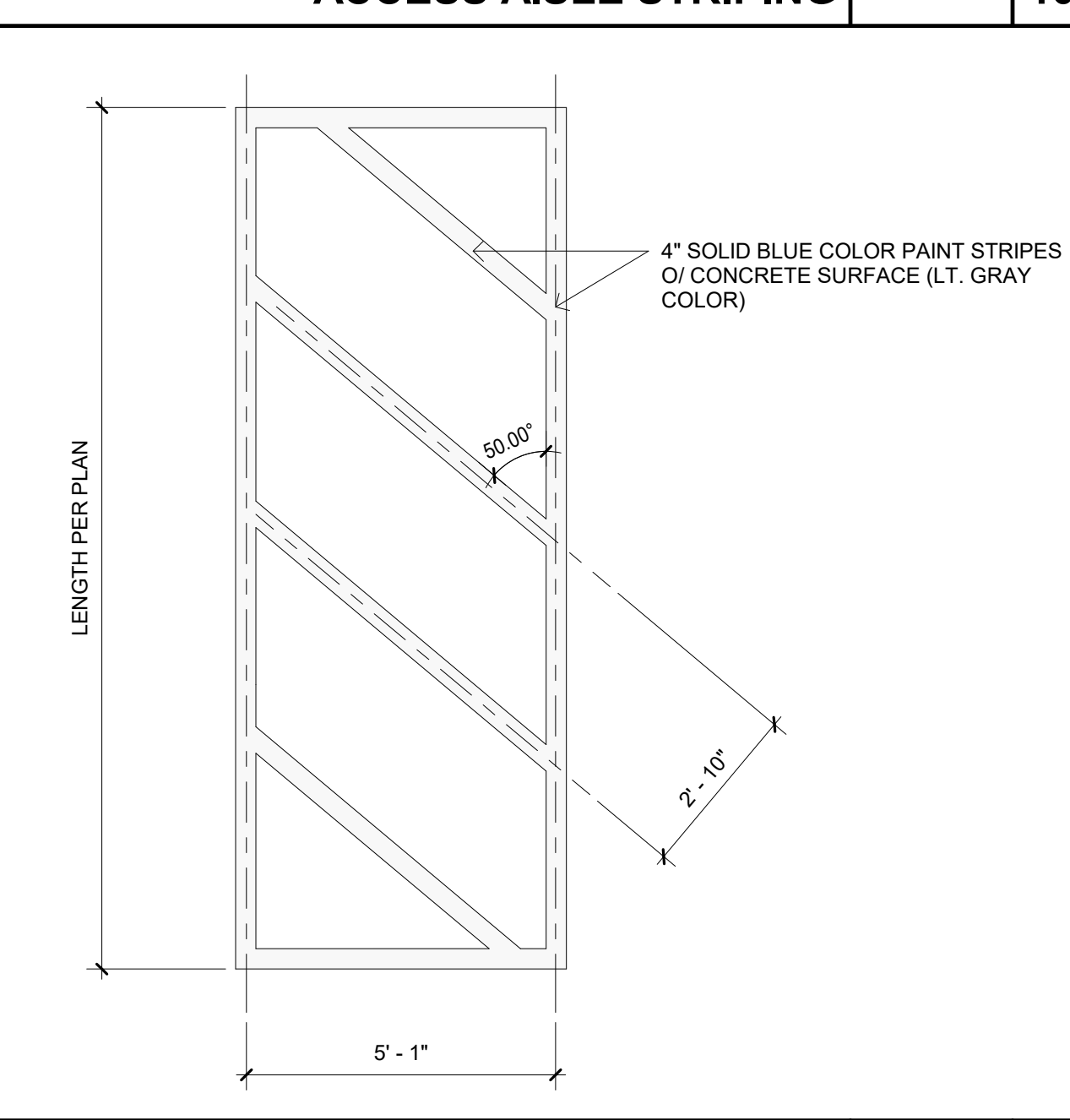
**ENLARGED PLAN OF NEW ACCESSIBLE STALLS** 1/8" = 1'-0" 6



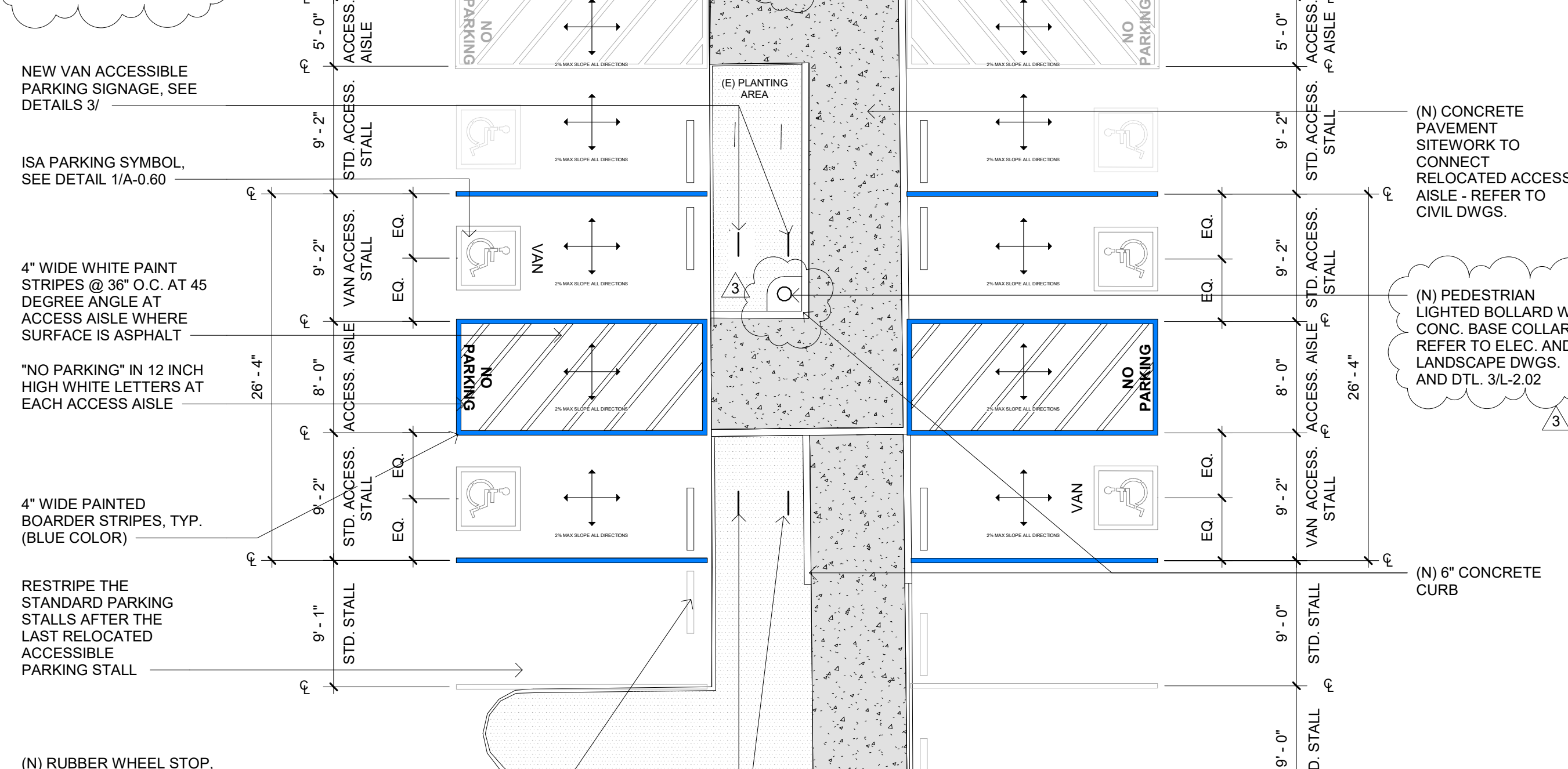
**RUBBER WHEEL STOP, TYP.** 3" = 1'-0" 4



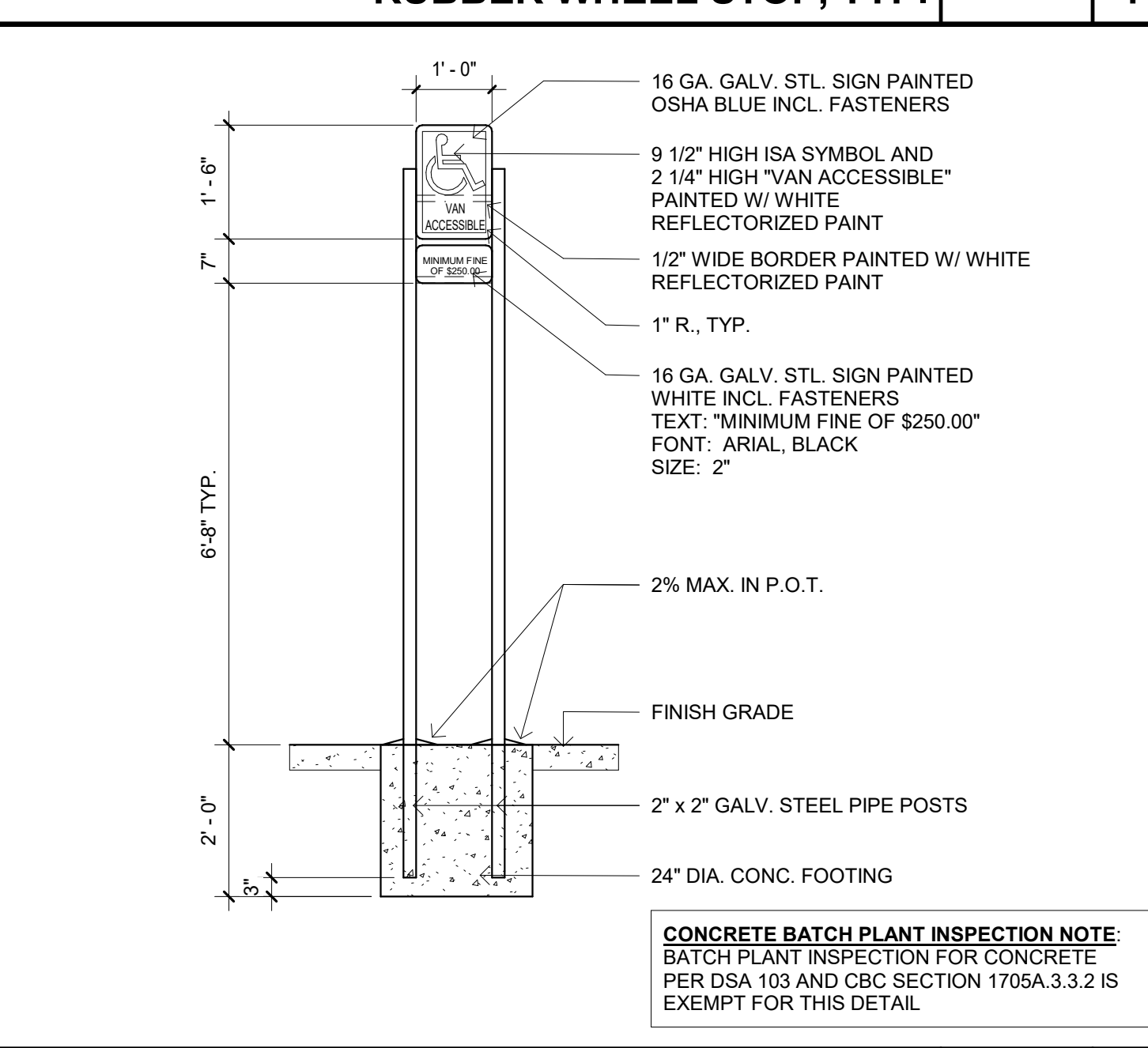
**ISA PARKING SYMBOL** 1/2" = 1'-0" 1



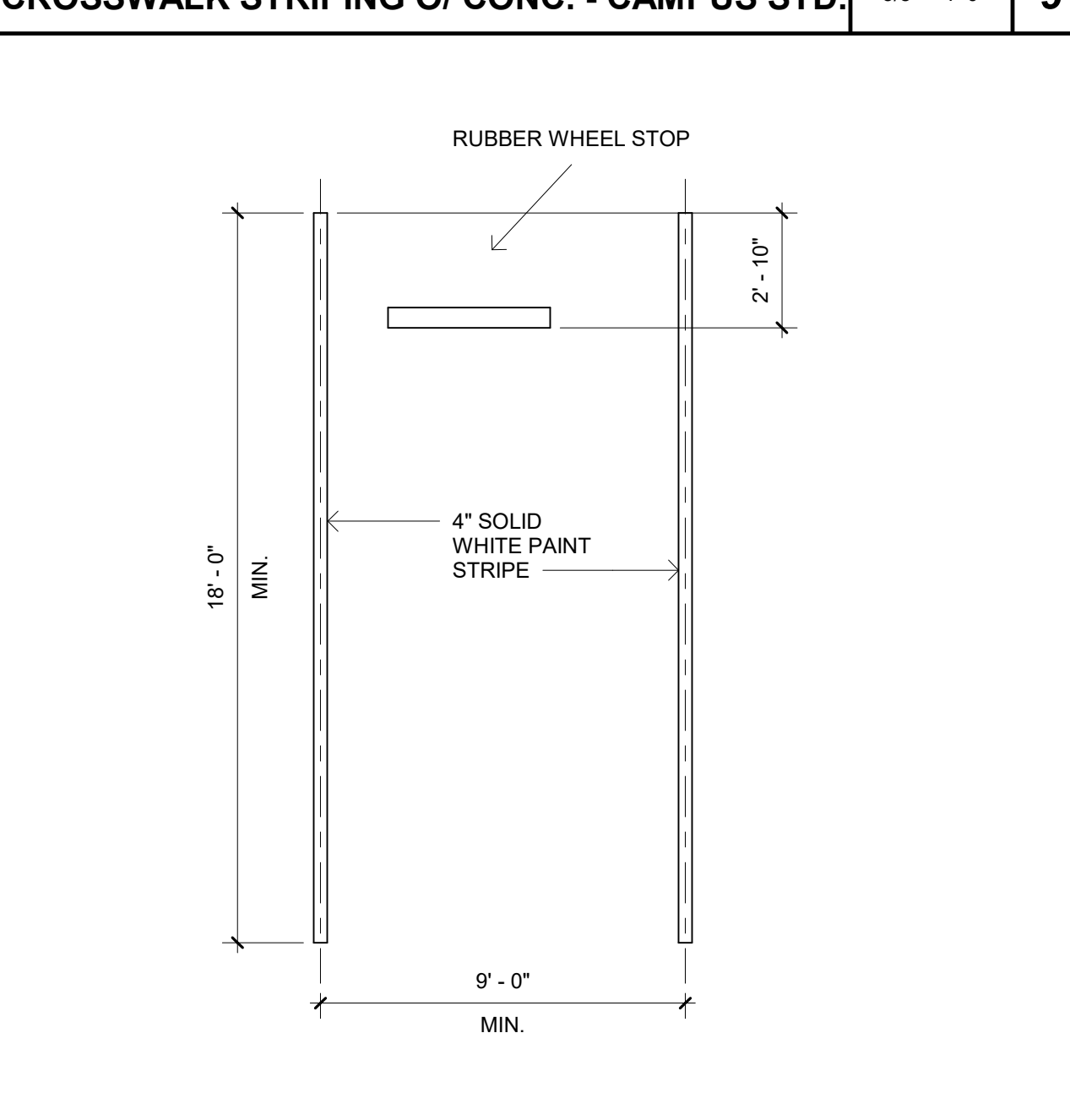
**CROSSWALK STRIPING O' CONC. - CAMPUS STD.** 3/8" = 1'-0" 9



**ENLARGED PLAN OF NEW ACCESSIBLE STALLS** 1/8" = 1'-0" 6



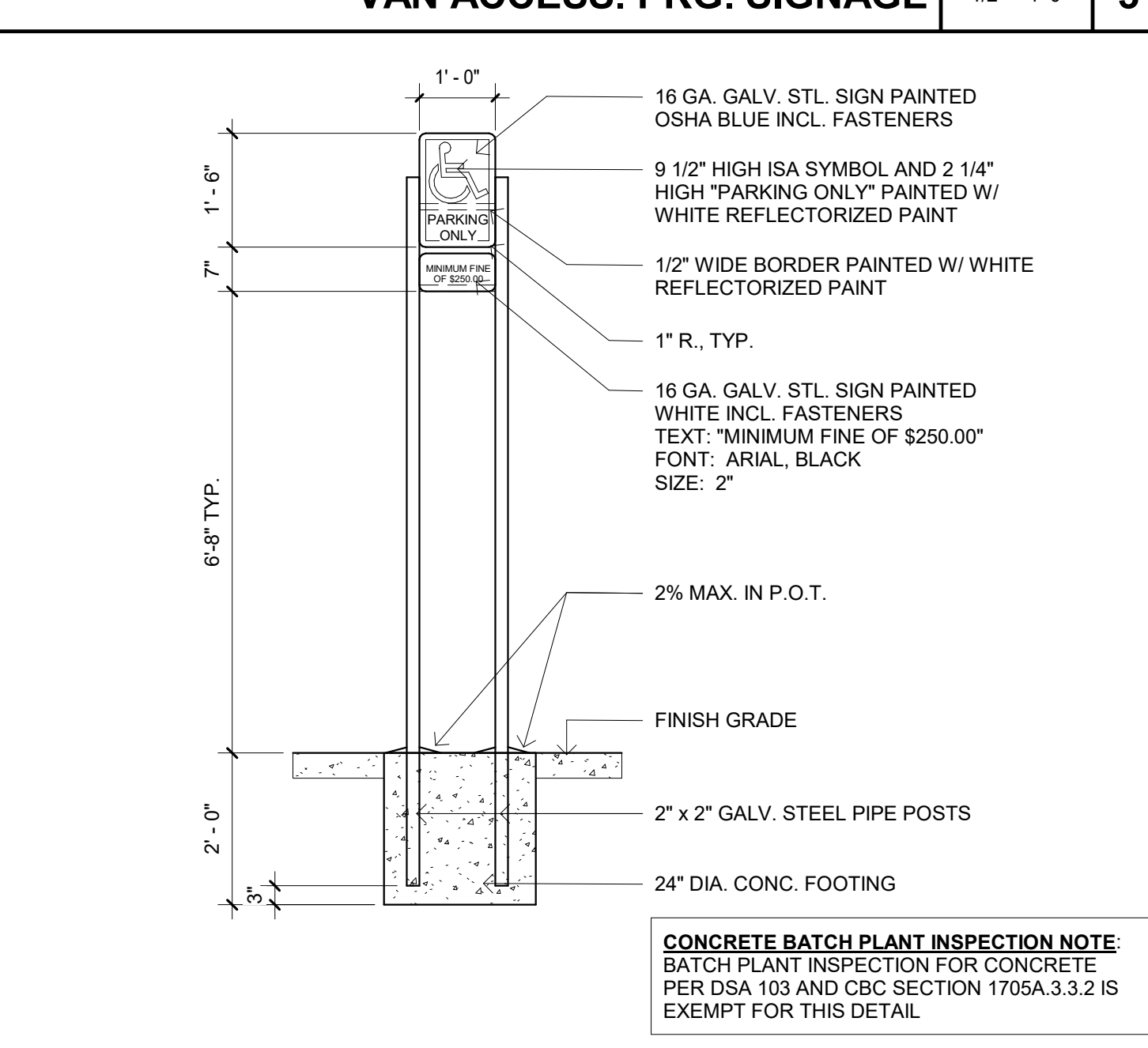
**VAN ACCESS. PKG. SIGNAGE** 1/2" = 1'-0" 3



**STANDARD PARKING STALL** 1/4" = 1'-0" 8



**ENLARGED PLAN OF NEW ACCESSIBLE STALLS** 1/8" = 1'-0" 6



**ACCESS. PARKING SIGNAGE** 1/2" = 1'-0" 2

**GENERAL:**  
FOR RAMPS, STAIRWAYS, AND SIGNAGE REFER TO ACCESSIBILITY NOTES ON SHEET GEN-4 AND DETAILS ON SHEET GEN-5 IN THESE DRAWINGS.

**SITE DEVELOPMENT:**

- GRADE AND DEVELOP SITE SUCH THAT ALL PRIMARY BUILDING ENTRANCES ARE ACCESSIBLE FROM THE PUBLIC WAY AND ACCESSIBLE PARKING PROVIDED.
- ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, FACILITIES AND SPACES ON THE SAME SITE. WHERE MORE THAN ONE ROUTE IS PROVIDED, ALL ROUTES SHALL BE ACCESSIBLE.
- IF AN ACCESSIBLE ROUTE HAS A CHANGE IN LEVEL GREATER THAN 1/2", THEN A CURB RAMP, RAMP, ELEVATOR, OR PLATFORM LIFT SHALL BE PROVIDED.
- ALL WALKS, HALLS, CORRIDORS, AISLES, AND OTHER SPACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL PROVIDE A MINIMUM CLEAR WIDTH OF 48 INCHES AND A MINIMUM CLEAR HEIGHT OF 80 INCHES.

**PARKING:**

- SURFACE SLOPES OF ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 1.8% IN ANY DIRECTION.
- ALL ENTRANCES TO AND VERTICAL CLEARANCES WITHIN PARKING STRUCTURE SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8'-2" WHERE REQUIRED FOR ACCESSIBILITY TO ACCESSIBLE PARKING SPACES. THE 8'-2" VERTICAL DIMENSION SHALL BE CLEAR OF ALL OBSTRUCTIONS INCLUDING BEAMS, SPRINKLER HEADS, PIPING, ETC.
- ONE IN EVERY SIX ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96 INCHES WIDE MINIMUM AND SHALL BE DESIGNATED VAN ACCESSIBLE WITH A SIGN AS DETAILED ON THIS SHEET STATING "VAN ACCESSIBLE" MOUNTED BELOW THE SYMBOL OF ACCESSIBILITY.
- EACH ACCESSIBLE PARKING SPACE SHALL BE IDENTIFIED BY A SIGN AS DETAILED ON THIS SHEET WITH "PARKING ONLY" WRITTEN BELOW THE SYMBOL OF ACCESSIBILITY.

**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM 3	01/16/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
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**SHEET TITLE:** ACCESSIBILITY PARKING PLANS AND DETAILS

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**

**SANTIAGO CANYON COLLEGE**

**CAMPUS ENTRANCE IMPROVEMENTS PROJECT - PHASE 1**

8045 E. Chapman Avenue, Orange, CA 92869



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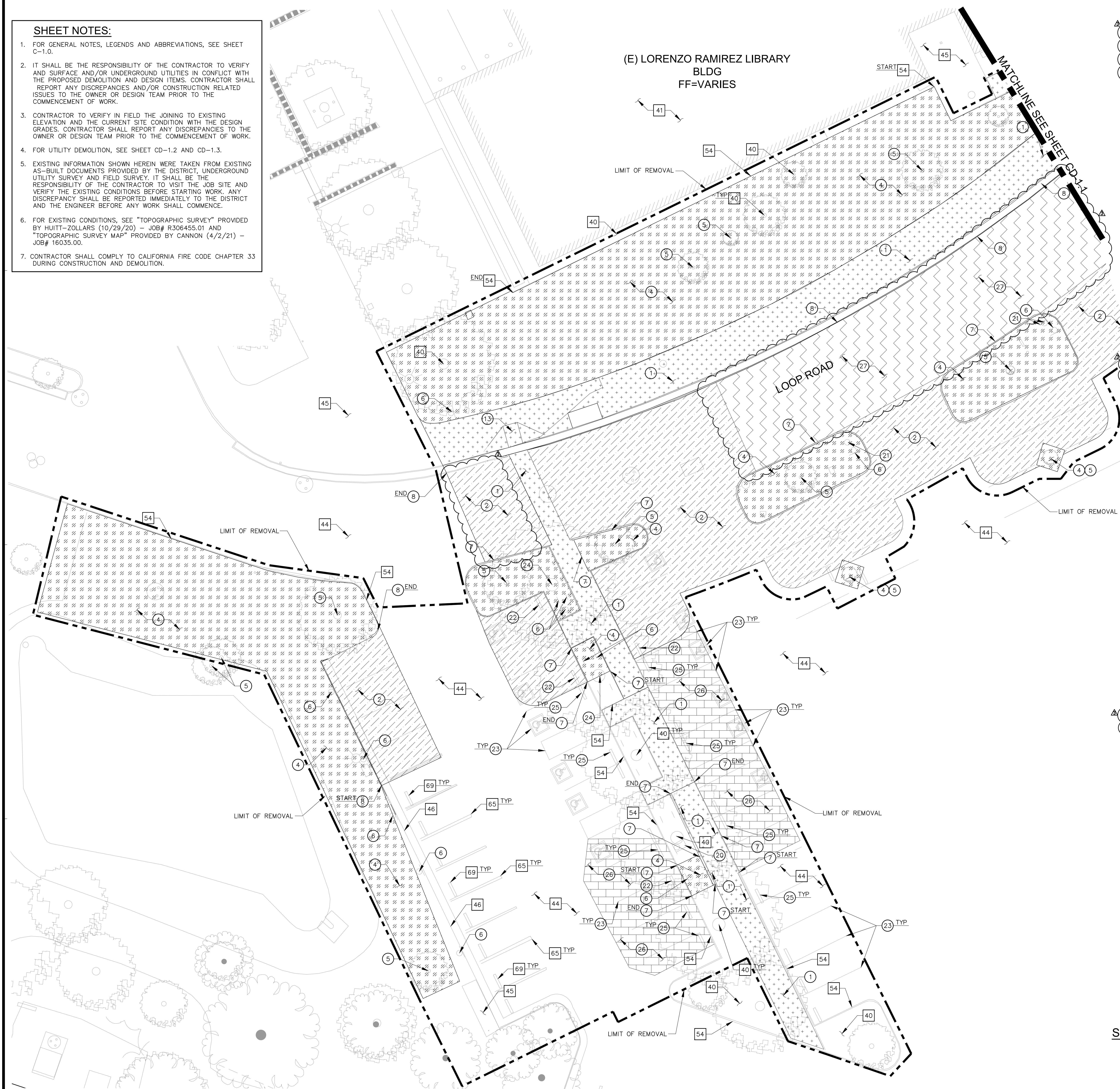
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**SHEET NOTES:**

- FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- FOR UTILITY DEMOLITION, SEE SHEET CD-1.2 AND CD-1.3.
- EXISTING INFORMATION SHOWN HEREIN WERE TAKEN FROM EXISTING AS-BUILT DOCUMENTS PROVIDED BY THE DISTRICT, UNDERGROUND UTILITY SURVEY AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT AND THE ENGINEER BEFORE ANY WORK SHALL COMMENCE.
- FOR EXISTING CONDITIONS, SEE "TOPOGRAPHIC SURVEY" PROVIDED BY HUITT-ZOLLARS (10/29/20) - JOB# R306455.01 AND "TOPOGRAPHIC SURVEY MAP" PROVIDED BY CANNON (4/2/21) - JOB# 16035.00.
- CONTRACTOR SHALL COMPLY TO CALIFORNIA FIRE CODE CHAPTER 33 DURING CONSTRUCTION AND DEMOLITION.

(E) LORENZO RAMIREZ LIBRARY  
BLDG  
FF=VARIES



**REMOVAL NOTES:**

- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT (THICKNESS RANGES FROM 6" TO 12") OVER 3" BASE MATERIAL, FULL DEPTH, AND #4 REBAR @18" O.C.
- REMOVE EXISTING AC PAVEMENT (THICKNESS RANGES FROM 4" TO 5.25") AND BASE MATERIAL (THICKNESS RANGES FROM 10" TO 12"), FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.
- REMOVE EXISTING TREE IN ITS ENTIRETY. COORDINATE WITH LANDSCAPE DRAWINGS AND DISTRICT PRIOR TO REMOVAL.
- REMOVE EXISTING SIGN POST AND FOOTING IN ITS ENTIRETY. STORE EXISTING SIGN FOR REUSE. SEE ARCHITECTURAL DRAWINGS FOR THE NEW LOCATION.
- REMOVE EXISTING CONCRETE CURB IN ITS ENTIRETY.
- REMOVE EXISTING CURB AND GUTTER IN ITS ENTIRETY.
- REMOVE EXISTING CURB RAMP AND TRUNCATED DOMES IN ITS ENTIRETY.
- REMOVE AND RELOCATE EXISTING PARKING KIOSK AND SIGN. SEE SHEET C-2.0 AND ARCHITECTURAL DRAWINGS FOR THE NEW LOCATION.
- REMOVE EXISTING TRASH CAN AND PAD IN ITS ENTIRETY.
- REMOVE EXISTING WHEEL STOP IN ITS ENTIRETY.
- REMOVE EXISTING STRIPING IN ITS ENTIRETY.
- REMOVE AND RELOCATE EXISTING TREE IN ITS ENTIRETY. COORDINATE WITH LANDSCAPE DRAWINGS AND DISTRICT PRIOR TO REMOVAL AND RELOCATION.
- REMOVE AND REINSTALL EXISTING WHEEL STOPS. SEE SHEET C-2.0 AND ARCHITECTURAL DRAWINGS FOR THE NEW LOCATIONS.
- GRIND 1 INCH OF EXISTING AC PAVEMENT.
- REMOVE EXISTING AC PAVEMENT (THICKNESS RANGES FROM 2.75" TO 4.50") AND CONCRETE BASE (THICKNESS RANGES FROM 18" TO 21.50"), FULL DEPTH.

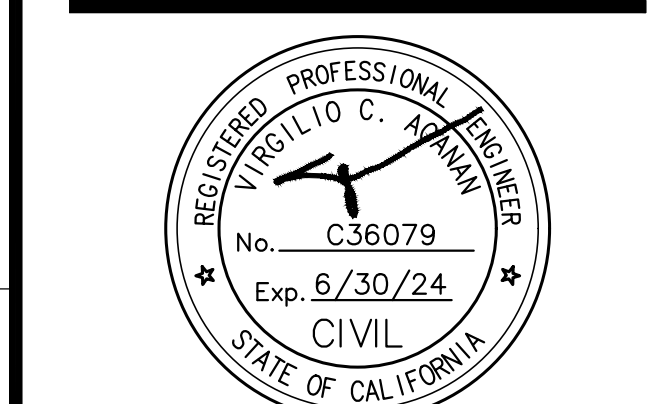
**PROTECT-IN-PLACE NOTES:**

- PROTECT IN PLACE EXISTING TREES, SHRUBS, SOD, ETC.
- PROTECT IN PLACE EXISTING BUILDING, FOOTINGS, AND ALL APPURTENANCES IN ITS ENTIRETY.
- PROTECT IN PLACE EXISTING AC PAVEMENT.
- PROTECT IN PLACE EXISTING CONCRETE PAVEMENT.
- PROTECT IN PLACE EXISTING CURB AND GUTTER.
- PROTECT IN PLACE EXISTING CONCRETE CURB.
- PROTECT IN PLACE EXISTING STRIPING.
- PROTECT IN PLACE EXISTING WHEEL STOPS IN ITS ENTIRETY.

**REMOVAL LEGEND:**

- REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
  - CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.
  - REMOVE EXISTING WALL AND FOOTINGS IN ITS ENTIRETY.
  - GRIND 1 INCH OF EXISTING AC PAVEMENT.
  - REMOVE EXISTING AC PAVEMENT AND CONCRETE BASE, FULL DEPTH.
- LIMIT OF REMOVAL

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**  
 8045 E. Chapman Avenue, Orange, CA 92668

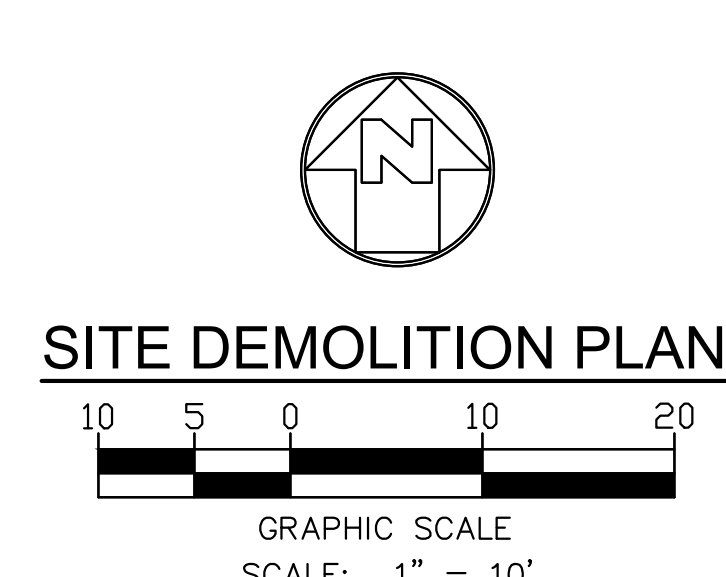


**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** CD-1.0  
**SHEET TITLE:**

**SITE DEMOLITION PLAN**



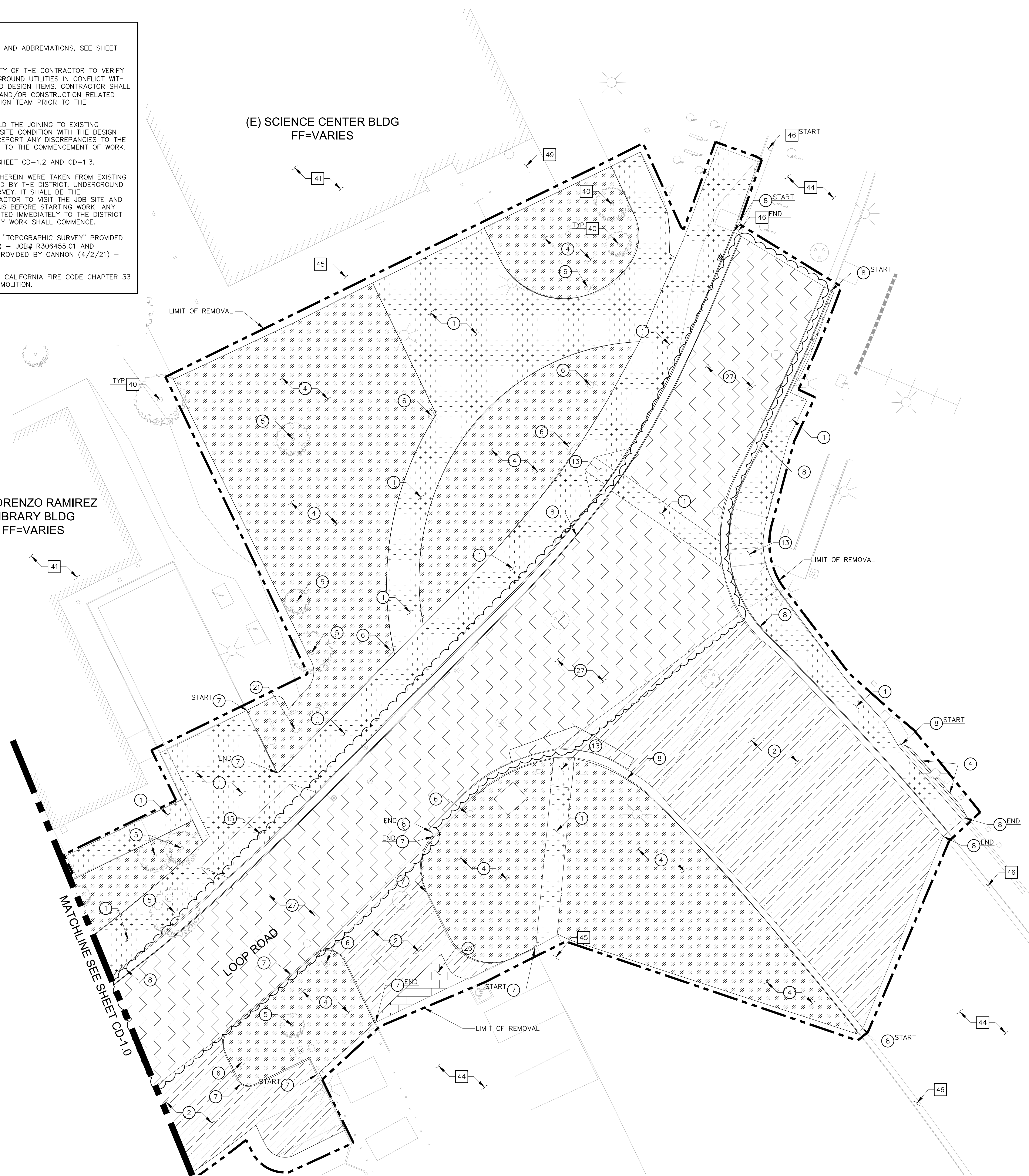


**SHEET NOTES:**

- FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- FOR UTILITY DEMOLITION, SEE SHEET CD-1.2 AND CD-1.3.
- EXISTING INFORMATION SHOWN HEREIN WERE TAKEN FROM EXISTING AS-BUILT DOCUMENTS PROVIDED BY THE DISTRICT, UNDERGROUND UTILITY SURVEY AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT AND THE ENGINEER BEFORE ANY WORK SHALL COMMENCE.
- FOR EXISTING CONDITIONS, SEE "TOPOGRAPHIC SURVEY" PROVIDED BY HUITT-ZOLLARS (10/29/20) - JOB# R306455.01 AND "TOPOGRAPHIC SURVEY MAP" PROVIDED BY CANNON (4/2/21) - JOB# 16035.00.
- CONTRACTOR SHALL COMPLY TO CALIFORNIA FIRE CODE CHAPTER 33 DURING CONSTRUCTION AND DEMOLITION.

(E) SCIENCE CENTER BLDG  
FF=VARIES

(E) LORENZO RAMIREZ  
LIBRARY BLDG  
FF=VARIES



**REMOVAL NOTES:**

- SAWCUT AND REMOVE EXISTING CONCRETE PAVEMENT (THICKNESS RANGES FROM 6" TO 12") OVER 3" BASE MATERIAL, FULL DEPTH, AND #4 REBAR @18" O.C.
- REMOVE EXISTING AC PAVEMENT (THICKNESS RANGES FROM 4" TO 5.25") AND BASE MATERIAL (THICKNESS RANGES FROM 10" TO 12"), FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.
- REMOVE EXISTING TREE IN ITS ENTIRETY. COORDINATE WITH LANDSCAPE DRAWINGS AND DISTRICT PRIOR TO REMOVAL.
- REMOVE EXISTING SIGN POST AND FOOTING IN ITS ENTIRETY. STORE EXISTING SIGN FOR REUSE. SEE ARCHITECTURAL DRAWINGS FOR THE NEW LOCATION.
- REMOVE EXISTING CONCRETE CURB IN ITS ENTIRETY.
- REMOVE EXISTING CURB AND GUTTER IN ITS ENTIRETY.
- REMOVE EXISTING CURB RAMP AND TRUNCATED DOMES IN ITS ENTIRETY.
- REMOVE EXISTING DRIVEWAY.
- REMOVE EXISTING TRASH CAN AND PAD IN ITS ENTIRETY.
- GRIND 1 INCH OF EXISTING AC PAVEMENT.
- REMOVE EXISTING AC PAVEMENT (THICKNESS RANGES FROM 2.75" TO 4.50") AND CONCRETE BASE (THICKNESS RANGES FROM 18" TO 21.50"), FULL DEPTH.

**PROTECT-IN-PLACE NOTES:**

- PROTECT IN PLACE EXISTING TREES, SHRUBS, SOD, ETC.
- PROTECT IN PLACE EXISTING BUILDING, FOOTINGS, AND ALL APPURTENANCES IN ITS ENTIRETY.
- PROTECT IN PLACE EXISTING AC PAVEMENT.
- PROTECT IN PLACE EXISTING CONCRETE PAVEMENT.
- PROTECT IN PLACE EXISTING CURB AND GUTTER.
- PROTECT IN PLACE EXISTING STAIRS.

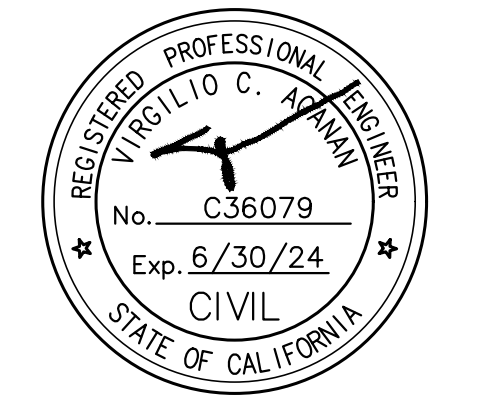
**REMOVAL LEGEND:**

- REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/PLANTER/SHRUBS/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS IN THEIR ENTIRETY.
- GRIND 1 INCH OF EXISTING AC PAVEMENT.
- REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- REMOVE EXISTING AC PAVEMENT AND CONCRETE BASE, FULL DEPTH.
- LIMIT OF REMOVAL

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1

8045 E. Chapman Avenue, Orange, CA 92668

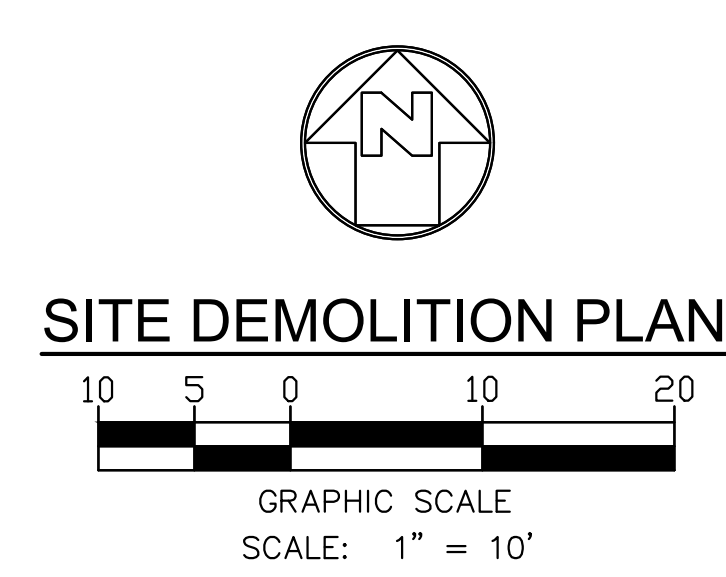


**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** CD-1.1  
**SHEET TITLE:**

**SITE  
DEMOLITION  
PLAN**





**SHEET NOTES:**

- FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- EXISTING INFORMATION SHOWN HEREIN WERE TAKEN FROM EXISTING AS-BUILT DOCUMENTS PROVIDED BY THE DISTRICT, UNDERGROUND UTILITY SURVEY AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT AND THE ENGINEER BEFORE ANY WORK SHALL COMMENCE.
- FOR EXISTING CONDITIONS, SEE "TOPOGRAPHIC SURVEY" PROVIDED BY HUITT-ZOLLARS (10/29/20) - JOB# R306455.01 AND "TOPOGRAPHIC SURVEY MAP" PROVIDED BY CANNON (4/2/21) - JOB# 16035.00.
- FOR EXISTING UTILITIES, SEE "GROUND PENETRATION RADAR (GPR) PLAN" PROVIDED BY ULTRA ENGINEERING (10/29/20).

**UTILITY SURVEYOR INFORMATION:**

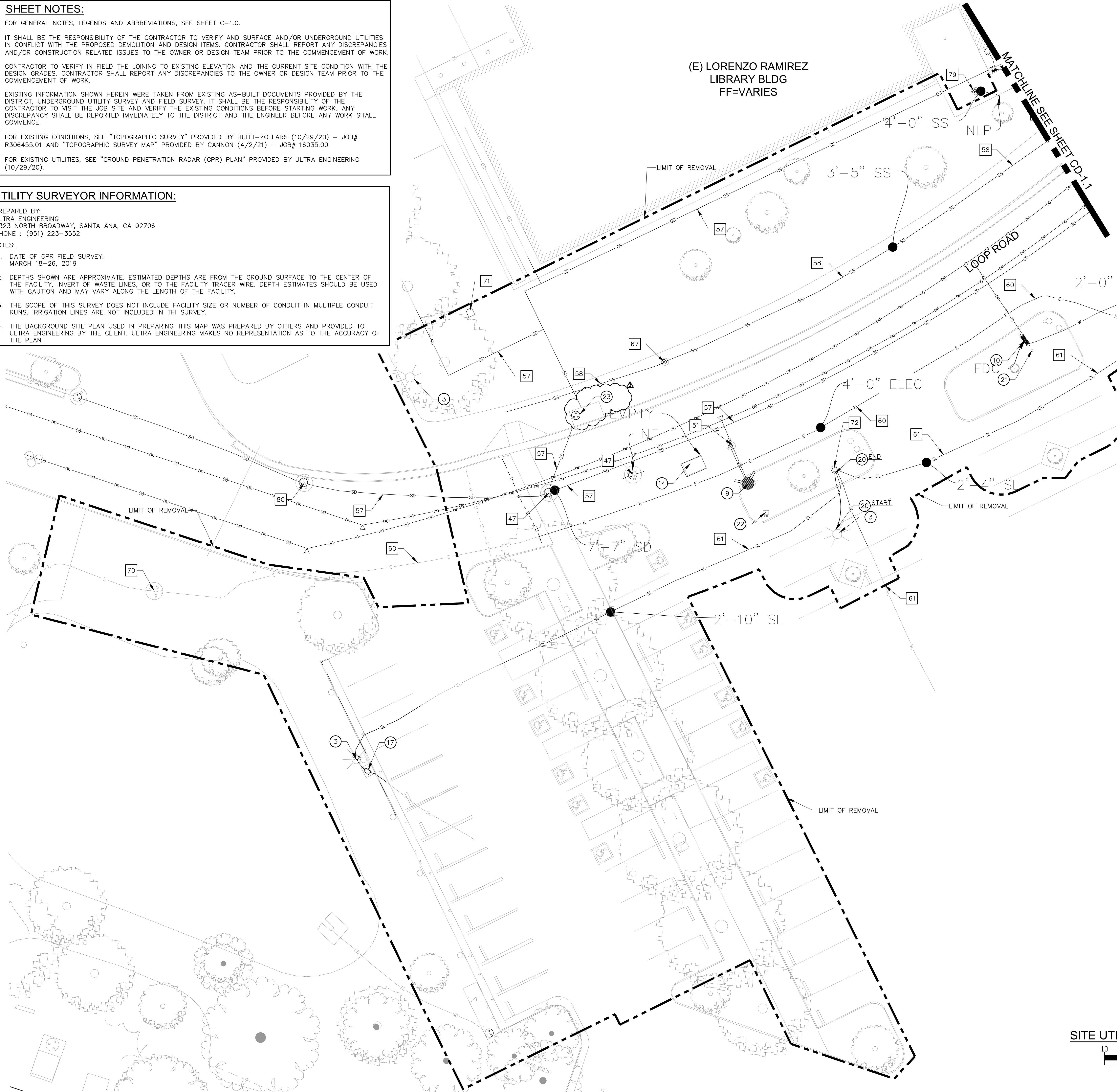
PREPARED BY:  
ULTRA ENGINEERING  
2323 NORTH BROADWAY, SANTA ANA, CA 92706  
PHONE : (951) 223-3552

**NOTES:**

- DATE OF GPR FIELD SURVEY:  
MARCH 18-26, 2019
- DEPTHS SHOWN ARE APPROXIMATE. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE FACILITY, INVERT OF WASTE LINES, OR TO THE FACILITY TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE FACILITY.
- THE SCOPE OF THIS SURVEY DOES NOT INCLUDE FACILITY SIZE OR NUMBER OF CONDUIT IN MULTIPLE CONDUIT RUNS. IRRIGATION LINES ARE NOT INCLUDED IN THE SURVEY.
- THE BACKGROUND SITE PLAN USED IN PREPARING THIS MAP WAS PREPARED BY OTHERS AND PROVIDED TO ULTRA ENGINEERING BY THE CLIENT. ULTRA ENGINEERING MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE PLAN.

(E) LORENZO RAMIREZ  
LIBRARY BLDG  
FF=VARIES

MATCHLINE SEE SHEET CD-1.1



**REMOVAL NOTES:**

- REMOVE AND RELOCATE EXISTING LIGHT POLE. DISCONNECT AND REMOVE LIGHT FIXTURE. DEMOLISH AND REMOVE WIRING BACK TO NEAREST PULL BOX. MAINTAIN BRANCH CIRCUIT/CONTROL CIRCUIT CONTINUITY FOR ALL DOWN STREAM AND/OR ADJACENT DEVICES TO REMAIN SEE LANDSCAPE AND ELECTRICAL DRAWINGS E-102 FOR NEW FIXTURE LOCATIONS.
- REMOVE AND RELOCATE EXISTING FIRE HYDRANT. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING BACKFLOW PREVENTER. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE EXISTING ABANDONED COMMUNICATION VAULT PER MEP DRAWINGS.
- REMOVE AND RELOCATE EXISTING ELECTRICAL PULLBOX PER ELECTRICAL DRAWINGS.
- DEMOLISH WIRING BACK TO LANDSCAPING AND INSTALL NEW UNDERGROUND 11X17 PULL BOX.
- REMOVE AND RELOCATE EXISTING HOSE BIBB RISER. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE EXISTING IRRIGATION PULL BOX.
- REMOVE EXISTING SIDE-OPENING CATCH BASIN AND MANHOLE IN ITS ENTIRETY. REPLACE WITH PIPING AS NEEDED TO PROVIDE CONTINUATION OF FLOW FOR EXISTING STORM DRAIN SYSTEM.

**PROTECT-IN-PLACE NOTES:**

- PROTECT IN PLACE EXISTING MANHOLE. ADJUST TO NEW DESIGN GRADE.
- NOT USED
- PROTECT IN PLACE EXISTING WATER VALVE. ADJUST TO NEW DESIGN GRADE.
- PROTECT IN PLACE EXISTING FIRE ALARM VAULT.
- PROTECT IN PLACE EXISTING SANITARY SEWER LINE.
- PROTECT IN PLACE EXISTING WATER LINE.
- PROTECT IN PLACE EXISTING SITE LIGHT LINE.
- PROTECT IN PLACE EXISTING SANITARY SEWER CLEANOUT. REPLACE EXISTING LID WITH NEW TRAFFIC LOADED LID. ADJUST TO NEW GRADE.
- PROTECT IN PLACE EXISTING HIGH VOLTAGE ELECTRICAL VAULT.
- PROTECT IN PLACE EXISTING UNKNOWN UTILITY PULLBOX.
- PROTECT IN PLACE EXISTING VAULT. PLACE TRAFFIC RATED COVER ON TOP OF EXISTING AND ADJUST TO NEW DESIGN GRADE.
- PROTECT IN PLACE EXISTING SEWER CLEANOUT.
- PROTECT IN PLACE EXISTING MANHOLE.
- PROTECT IN PLACE EXISTING WATER VALVES.

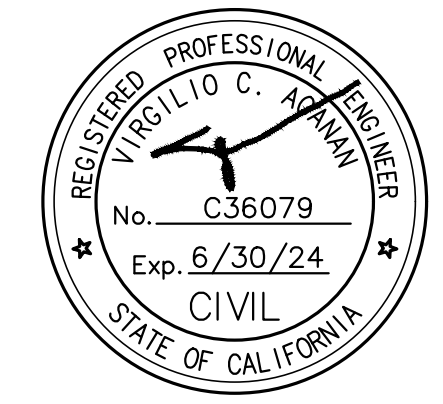
**LEGENDS AND ABBREVIATIONS:**

- LIMIT OF REMOVAL - - - - -
- ELECTRICAL - E - - - - -
- GAS - G - - - - -
- SEWER - SS - - - - -
- SITE LIGHT - SL - - - - -
- STORM DRAIN - SD - - - - -
- POSSIBLE LINE - U - - - - -
- LOCATION (UNKNOWN) - - - - -
- TEL/COMM - TEL - - - - -
- WATER - W - - - - -
- DEPTH FROM SURFACE 1'-6" - - - - -
- DIA. OF PIPE - - - - -
- EOS = END OF SIGNAL
- FDC = FIRE DEPARTMENT CONNECTION
- NA = NO ACCESS
- NLP = NO LONGER PUSH
- NT = NO TONE
- OFFSET FROM REFERENCE - - - - - 10'-8"
- WVA WATER VALVE ASSEMBLY
- WLT WATER VAULT

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1

8045 E. Chapman Avenue, Orange, CA 92669

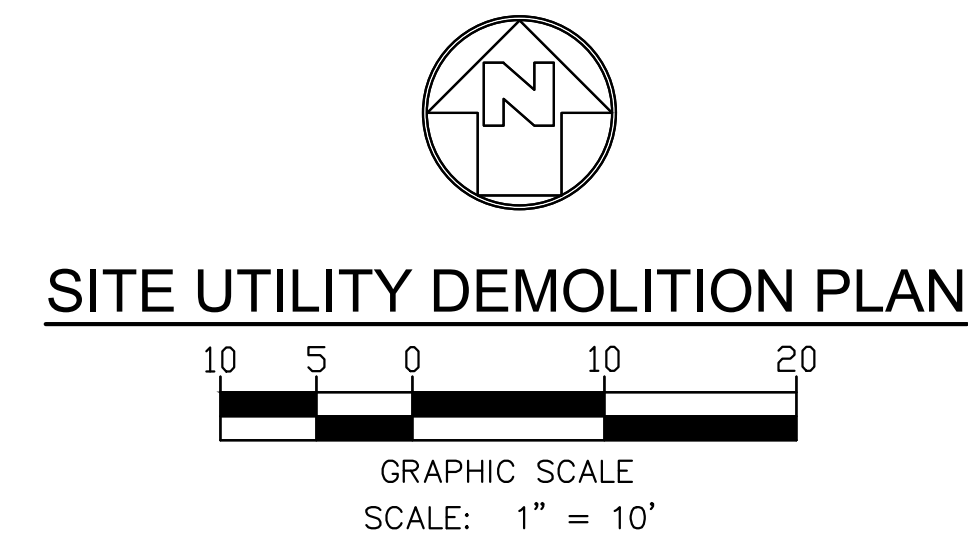


**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
SCALE: As indicated  
SHEET NUMBER: CD-1.2  
SHEET TITLE:

SITE UTILITY  
DEMOLITION  
PLAN





**SHEET NOTES:**

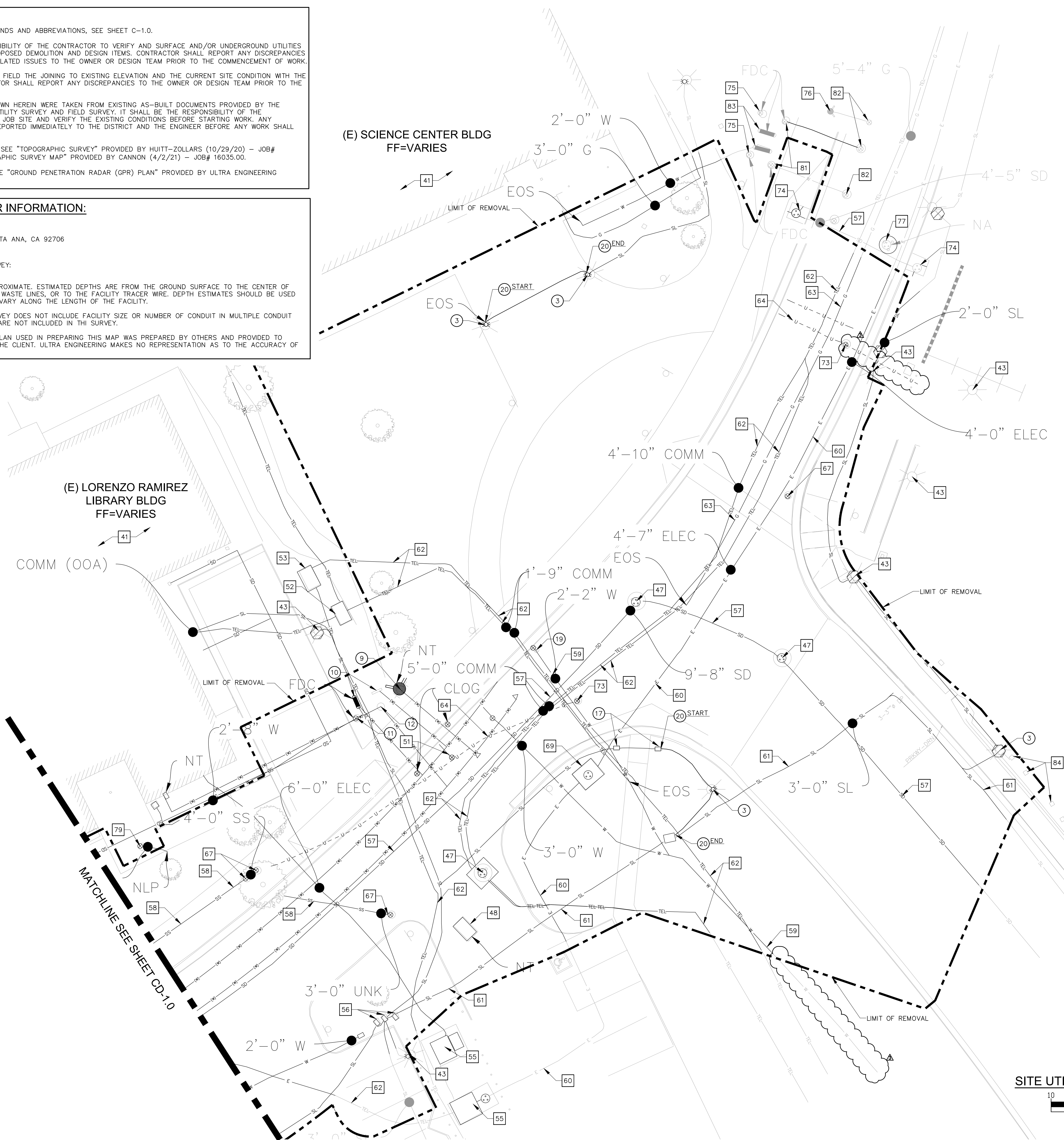
- FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
- EXISTING INFORMATION SHOWN HEREIN WERE TAKEN FROM EXISTING AS-BUILT DOCUMENTS PROVIDED BY THE DISTRICT. UNDERGROUND UTILITY SURVEY AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT AND THE ENGINEER BEFORE ANY WORK SHALL COMMENCE.
- FOR EXISTING CONDITIONS, SEE "TOPOGRAPHIC SURVEY" PROVIDED BY HUITT-ZOLLARS (10/29/20) - JOB# R306455.01 AND "TOPOGRAPHIC SURVEY MAP" PROVIDED BY CANNON (4/2/21) - JOB# 16035.00.
- FOR EXISTING UTILITIES, SEE "GROUND PENETRATION RADAR (GPR) PLAN" PROVIDED BY ULTRA ENGINEERING (10/29/20).

**UTILITY SURVEYOR INFORMATION:**

PREPARED BY:  
 ULTRA ENGINEERING  
 2323 NORTH BROADWAY, SANTA ANA, CA 92706  
 PHONE : (951) 223-3552

**NOTES:**

- DATE OF GPR FIELD SURVEY: MARCH 18-26, 2019
- DEPTHS SHOWN ARE APPROXIMATE. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE FACILITY, INVERT OF WASTE LINES, OR TO THE FACILITY TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE FACILITY.
- THE SCOPE OF THIS SURVEY DOES NOT INCLUDE FACILITY SIZE OR NUMBER OF CONDUIT IN MULTIPLE CONDUIT RUNS. IRRIGATION LINES ARE NOT INCLUDED IN THE SURVEY.
- THE BACKGROUND SITE PLAN USED IN PREPARING THIS MAP WAS PREPARED BY OTHERS AND PROVIDED TO ULTRA ENGINEERING BY THE CLIENT. ULTRA ENGINEERING MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE PLAN.



**REMOVAL NOTES:**

- REMOVE AND RELOCATE EXISTING LIGHT POLE. DISCONNECT AND REMOVE LIGHT FIXTURE, DEMOLISH AND REMOVE WIRING BACK TO NEAREST PULL BOX. MAINTAIN BRANCH CIRCUIT/CONTROL CIRCUIT CONTINUITY FOR ALL DOWN STREAM AND/OR ADJACENT DEVICES TO REMAIN SEE LANDSCAPE AND ELECTRICAL DRAWINGS E-102 FOR NEW FIXTURE LOCATIONS.
- REMOVE AND RELOCATE EXISTING FIRE HYDRANT. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING BACKFLOW PREVENTER. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING FIRE DEPARTMENT CONNECTION. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING POST INDICATOR VALVE. SEE UTILITY PLANS FOR NEW LOCATION.
- REMOVE AND RELOCATE EXISTING ELECTRICAL PULLBOX PER ELECTRICAL DRAWINGS.
- REMOVE EXISTING WATER VALVE AND PROVIDE NEW BRASS PIPE CONNECTION PER DETAIL 3 ON SHEET C-5.3.
- DEMOLISH WIRING BACK TO LANDSCAPING AND INSTALL NEW UNDERGROUND 11X17 PULL BOX.
- REMOVE AND RELOCATE EXISTING HOSE BIBB RISER. SEE UTILITY PLANS FOR NEW LOCATION.

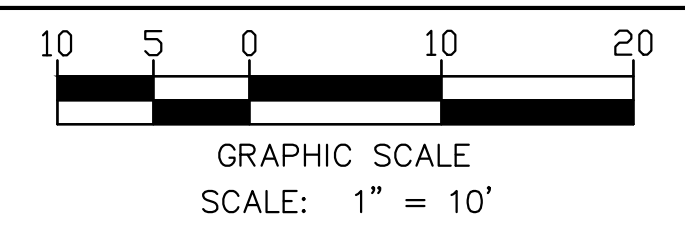
**PROTECT-IN-PLACE NOTES:**

- PROTECT IN PLACE EXISTING BUILDING, FOOTINGS, AND ALL APPURTENANCES IN ITS ENTIRETY.
- PROTECT IN PLACE EXISTING LIGHT POLE.
- PROTECT IN PLACE EXISTING MANHOLE. ADJUST TO NEW DESIGN GRADE.
- PROTECT IN PLACE EXISTING VAULT. ADJUST TO NEW DESIGN GRADE.
- PROTECT IN PLACE EXISTING WATER VALVE. ADJUST TO NEW DESIGN GRADE.
- PROTECT IN PLACE EXISTING FIRE ALARM VAULT.
- PROTECT IN PLACE EXISTING COMMUNICATION VAULT.
- PROTECT IN PLACE EXISTING ELECTRICAL VAULT.
- PROTECT IN PLACE EXISTING UTILITY PULLBOX. ADJUST TO NEW DESIGN GRADE AND REPLACE WITH TRAFFIC RATED COVER.
- PROTECT IN PLACE EXISTING STORM DRAIN LINE.
- PROTECT IN PLACE EXISTING SANITARY SEWER LINE.
- PROTECT IN PLACE EXISTING WATER LINE.
- PROTECT IN PLACE EXISTING ELECTRICAL LINE.
- PROTECT IN PLACE EXISTING SITE LIGHT LINE.
- PROTECT IN PLACE EXISTING COMMUNICATION LINE.
- PROTECT IN PLACE EXISTING GAS LINE.
- PROTECT IN PLACE EXISTING UNKNOWN UTILITY LINE.
- PROTECT IN PLACE EXISTING SANITARY SEWER CLEANOUT. REPLACE EXISTING LID WITH NEW TRAFFIC LOADED LID. ADJUST TO NEW GRADE.
- PROTECT IN PLACE EXISTING ELECTRICAL VAULT. ADJUST TO NEW DESIGN GRADE PER ELECTRICAL DRAWINGS. COORDINATE ELEVATION ADJUSTMENT WITH SCE.
- PROTECT IN PLACE EXISTING UNKNOWN UTILITY VALVE. ADJUST TO NEW DESIGN GRADES AS NEEDED.
- PROTECT IN PLACE EXISTING CATCH BASIN AND MANHOLE. ADJUST MANHOLE LID TO NEW DESIGN ELEVATIONS AS NEEDED.
- PROTECT IN PLACE EXISTING FIRE DEPARTMENT CONNECTION VALVE.
- PROTECT IN PLACE EXISTING FIRE HYDRANT.
- PROTECT IN PLACE EXISTING UTILITY MANHOLE.
- PROTECT AND PLACE EXISTING POST INDICATOR VALVE.
- PROTECT IN PLACE EXISTING WATER VALVES.
- PROTECT IN PLACE EXISTING BACKFLOW PREVENTER.
- PROTECT IN PLACE EXISTING IRRIGATION CONTROL VALVE.

**LEGENDS AND ABBREVIATIONS:**

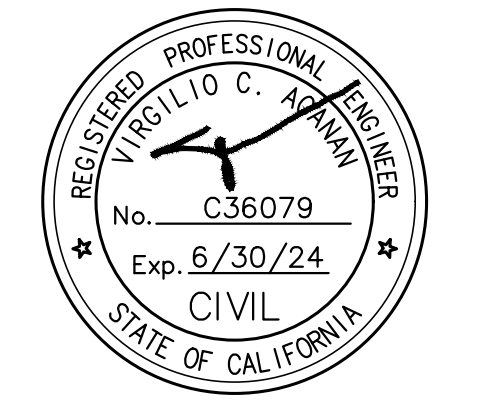
- LIMIT OF REMOVAL -----
- ELECTRICAL ----- E -----
- GAS ----- G -----
- SEWER ----- SS -----
- SITE LIGHT ----- SL -----
- STORM DRAIN ----- SD -----
- POSSIBLE LINE ----- U -----
- LOCATION (UNKNOWN) ----- U -----
- TEL/COMM ----- TEL -----
- WATER ----- W -----
- DEPTH FROM SURFACE 1'-6"
- DIA. OF PIPE -----
- EOS = END OF SIGNAL
- FDC = FIRE DEPARTMENT CONNECTION
- NA = NO ACCESS
- NLP = NO LONGER PUSH
- NT = NO TONE
- OFFSET FROM REFERENCE -----> 10'-8"

**SITE UTILITY DEMOLITION PLAN**



**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**

8045 E. Chapman Avenue, Orange, CA 92669



**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** CD-1.3  
**SHEET TITLE:**

**SITE UTILITY DEMOLITION PLAN**





### SURVEY INFORMATION:

**PREPARED BY:**  
HUITT-ZOLLARS, INC.  
2603 MAIN STREET, SUITE 400,  
IRVINE, CA 92614  
PHONE : (949) 988-5815  
(949) FAX : 988-5815

#### NOTES:

- CONTROL AS PROVIDED BY CLIENT PER PREVIOUS BY PENCO IN AUGUST, 2016.
- CONTOURS ARE AT 0.5' INTERVALS.
- DATE OF FIELD SURVEY: MARCH 18-26, 2019  
REVISED: NOVEMBER 3, 2020
- NOT ALL SURVEY POINTS UTILIZED TO CREATE THE TOPOGRAPHIC SURVEY ARE SHOWN HEREON. ALL SURVEY POINTS ARE PROVIDED IN THE CAD FILE.

#### BENCHMARK INFORMATION:

OCS BENCHMARK 3D-154-91  
NAVD88; ELEV.=508.513';  
YEAR LEVELED: 1991  
FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3D-154-91", SET IN THE NORTHWESTERLY CORNER OF A 4 FT. BY 15 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE SOUTHEASTERLY CORNER OF THE INTERSECTION OF CHAPMAN AVENUE AND NEWPORT AVENUE, 90 FT. SOUTHERLY OF THE CENTERLINE OF CHAPMAN AND 41 FT. EASTERLY OF THE CENTERLINE OF NEWPORT. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

#### PREPARED BY:

CANNON  
16842 VON KARMAN AVENUE SUITE  
150 IRVINE, CALIFORNIA 92606  
PHONE: (949) 753-8111

#### NOTES:

[XXX.XX] = DATA COLLECTED 3/28/2021

THE ELEVATION DATA ON THIS SURVEY HAS BEEN RAISED BY 0.10' TO MATCH THE PREVIOUS OCTOBER, 2020 BY HUITT-ZOLLARS.

#### BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE GRID BEARING N89°51'09"W BETWEEN O.C.S. GPS CONTROL STATION NO. 6019R1 AND GPS NO. 6020 PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

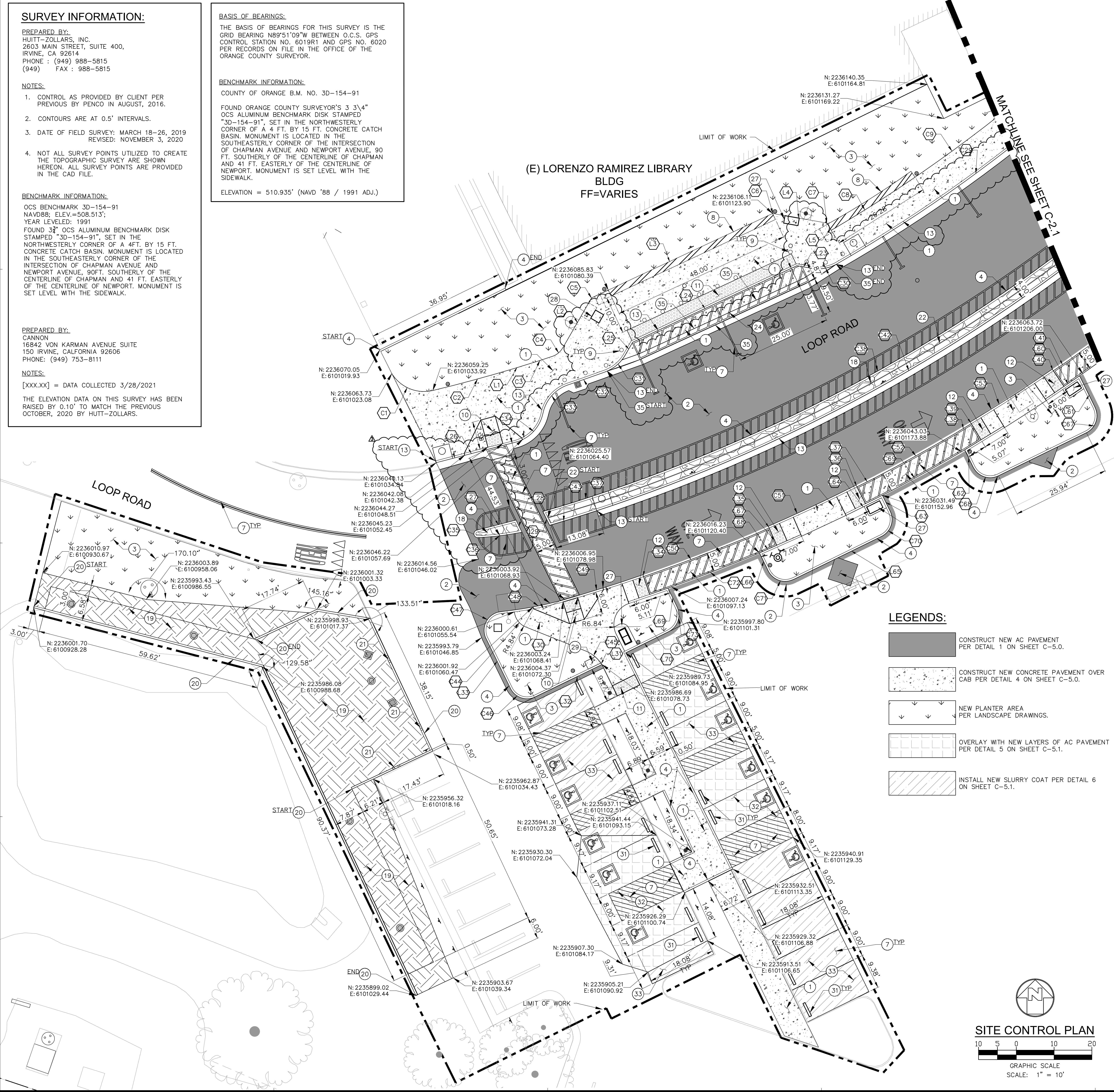
#### BENCHMARK INFORMATION:

COUNTY OF ORANGE B.M. NO. 3D-154-91

FOUND ORANGE COUNTY SURVEYOR'S 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3D-154-91", SET IN THE NORTHWESTERLY CORNER OF A 4 FT. BY 15 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE SOUTHEASTERLY CORNER OF THE INTERSECTION OF CHAPMAN AVENUE AND NEWPORT AVENUE, 90 FT. SOUTHERLY OF THE CENTERLINE OF CHAPMAN AND 41 FT. EASTERLY OF THE CENTERLINE OF NEWPORT. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

ELEVATION = 510.935' (NAVD '88 / 1991 ADJ.)

### (E) LORENZO RAMIREZ LIBRARY BLDG FF=VARIES



### CONSTRUCTION NOTES:

- CONSTRUCT NEW CONCRETE PAVEMENT PER DETAIL 4 ON SHEET C-5.0. SEE PAVEMENT SECTION DETAIL FOR THICKNESSES FOR PAVEMENT LOADING SCENARIOS.
- CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHEET C-5.0. SEE PAVEMENT SECTION DETAIL FOR THICKNESSES FOR PAVEMENT LOADING SCENARIOS.
- PLANTER AREA PER LANDSCAPE DRAWINGS.
- CONSTRUCT CONCRETE CURB PER DETAIL 2 ON SHEET C-5.0.
- NEW STRIPING PER ARCHITECTURAL DRAWINGS.
- NEW CONCRETE WALL PER LANDSCAPE DRAWINGS.
- INSTALL BOLLARDS PER LANDSCAPE DRAWINGS.
- CONSTRUCT CURB RAMP PER DETAIL 1 TYPE-C ON SHEET C-5.1.
- INSTALL TRUNCATED DOMES PER DETAIL 8 ON SHEET C-5.0.
- CONSTRUCT CURB RAMP PER DETAIL 1 TYPE-D ON SHEET C-5.1.
- CONSTRUCT CURB AND GUTTER PER DETAIL 3 ON SHEET C-5.1.
- NEW COBBLE STONE PAVING PER LANDSCAPE DRAWINGS.
- NEW BIOFILTRATION AREA PER DETAIL 1 ON SHEET C-5.2. BIOFILTRATION BMP TO BE INSTALLED IN PHASE 1.
- CONSTRUCT NEW CONCRETE GRAVITY CURB PER DETAIL 7 ON SHEET C-5.0.
- CONSTRUCT CURB SLOT PER DETAIL 2 ON SHEET C-5.1.
- NEW GUARDRAIL FENCING PER LANDSCAPE DRAWINGS.
- NEW PASSENGER LOADING ZONE STRIPING PER ARCHITECTURAL DRAWINGS.
- NEW TRASH RECEPTACLE AND CONCRETE PAD PER LANDSCAPE DRAWINGS. SEE DETAIL 6 ON SHEET L-2.01 FOR REFERENCE.
- RELOCATED BOOK DROP PER ARCHITECTURAL AND LANDSCAPE DRAWINGS. SEE DETAIL 7 ON SHEET L-2.01.
- NEW LOCATION OF PARKING KIOSK AND SIGNAGE. SEE ARCHITECTURAL DRAWINGS FOR REFERENCE. NEW CONCRETE PAD PER DETAIL 5 ON SHEET C-5.2.
- REINSTALL EXISTING WHEEL STOPS PER ARCHITECTURAL DRAWINGS.
- OVERLAY WITH NEW LAYERS OF AC PAVEMENT PER DETAIL 5 ON SHEET C-5.1.
- INSTALL NEW SLURRY COAT PER DETAIL 6 ON SHEET C-5.1. CRACKS MORE THAN 1/8 INCH WIDE, LOW AREA, HOLES OR DEPRESSIONS IN EXISTING SURFACING SHALL BE REPAIRED PRIOR TO INSTALLATION OF SLURRY SEAL.
- CONSTRUCT V-GUTTER PER DETAIL 3 ON SHEET C-5.3.

### LEGENDS:

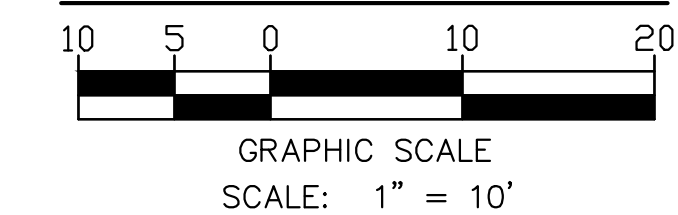
- CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHEET C-5.0.
- CONSTRUCT NEW CONCRETE PAVEMENT OVER CAB PER DETAIL 4 ON SHEET C-5.0.
- NEW PLANTER AREA PER LANDSCAPE DRAWINGS.
- OVERLAY WITH NEW LAYERS OF AC PAVEMENT PER DETAIL 5 ON SHEET C-5.1.
- INSTALL NEW SLURRY COAT PER DETAIL 6 ON SHEET C-5.1.
- NEW BIOFILTRATION AREA PER DETAIL 1 ON SHEET C-5.2. BIOFILTRATION BMP TO BE INSTALLED IN PHASE 1.
- NEW CONCRETE WALL PER LANDSCAPE DRAWINGS.
- NEW STRIPING PER ARCHITECTURAL DRAWINGS.
- INSTALL TRUNCATED DOMES PER DETAIL 8 ON SHEET C-5.0.
- LIMIT OF WORK

- NEW BIOFILTRATION AREA PER DETAIL 1 ON SHEET C-5.2. BIOFILTRATION BMP TO BE INSTALLED IN PHASE 1.
- NEW CONCRETE WALL PER LANDSCAPE DRAWINGS.
- NEW STRIPING PER ARCHITECTURAL DRAWINGS.
- INSTALL TRUNCATED DOMES PER DETAIL 8 ON SHEET C-5.0.
- LIMIT OF WORK

### SHEET NOTES:

- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEET C-1.0.
- SEE ARCHITECTURAL, ELECTRICAL AND LANDSCAPE DRAWINGS FOR OTHER SITE RELATED DIMENSIONS AND GRID LINES NOT SHOWN ON THIS DRAWING.
- FOR ANY TRANSITION FROM PHASE 1 TO PHASE 2, CONSTRUCT ASPHALT PAVEMENT AT LESS THAN 5% MAXIMUM AS REQUIRED.
- CONTRACTOR TO USE AND VERIFY BENCHMARK, HORIZONTAL AND VERTICAL CONTROL SET FOR BY HUITT-ZOLLARS AND CANNON TOPOGRAPHIC SURVEYS. CONTRACTOR TO DETERMINE WHICH BENCHMARK, HORIZONTAL AND VERTICAL CONTROL BASED OFF THE PROVIDED SURVEY FROM HUITT-ZOLLARS AND CANNON, ALONG WITH THE SCOPE OF WORK SHOWN ON THE DRAWINGS. CONTRACTOR TO NOTIFY DISTRICT AND DESIGN TEAM IF ANY DISCREPANCY IS ENCOUNTERED PRIOR TO POURING SITE FLATWORK.
- SEE ENLARGED FIRE ACCESS PLAN ON ARCHITECTURAL SHEET A-0.01 FOR FIRE LANE DELINEATION.
- SEE ENLARGED SIGNAGE PLAN ON ARCHITECTURAL SHEET A-0.30 FOR SIGNAGE LEGEND AND LOCATIONS.
- FOR EXISTING CONDITIONS, SEE "TOPOGRAPHIC SURVEY" PROVIDED BY HUITT-ZOLLARS (10/29/20) - JOB# R306455.01 AND "TOPOGRAPHIC SURVEY MAP" PROVIDED BY CANNON (4/2/21) - JOB# 16035.00.

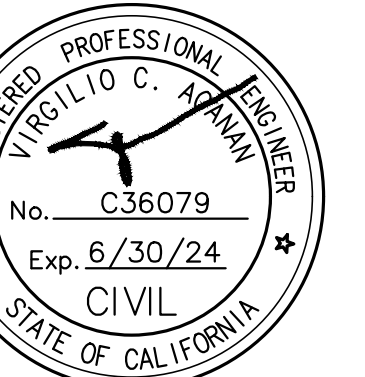
### SITE CONTROL PLAN



RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1

8045 E. Chapman Avenue, Orange, CA 92669



### REVISIONS:

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	11/17/2023

DATE ISSUED: 2018-11-19

PROJECT NO: 2018-40167

DSA APPLICATION NO: 04-120129

SCALE: As indicated

SHEET NUMBER: C-2.0

SHEET TITLE:

### SITE CONTROL PLAN





**SURVEY INFORMATION:**

PREPARED BY:  
 HUITT-ZOLLARS, INC.  
 2603 MAIN STREET, SUITE 400,  
 IRVINE, CA 92614  
 PHONE : (949) 988-5815  
 (949) FAX : 988-5815

**NOTES:**

- CONTROL AS PROVIDED BY CLIENT PER PREVIOUS BY Penco IN AUGUST, 2016.
- CONTOURS ARE AT 0.5' INTERVALS.
- DATE OF FIELD SURVEY: MARCH 18-26, 2019  
 REVISED: NOVEMBER 3, 2020
- NOT ALL SURVEY POINTS UTILIZED TO CREATE THE TOPOGRAPHIC SURVEY ARE SHOWN HEREON. ALL SURVEY POINTS ARE PROVIDED IN THE CAD FILE.

**BENCHMARK INFORMATION:**

OCS BENCHMARK 3D-154-91  
 NAVD88; ELEV.=508.513';  
 YEAR LEVELED: 1991  
 FOUND 3" OCS ALUMINUM BENCHMARK DISK STAMPED "3D-154-91", SET IN THE NORTHWESTERLY CORNER OF A 4 FT. BY 15 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE SOUTHEASTERLY CORNER OF THE INTERSECTION OF CHAPMAN AVENUE AND NEWPORT AVENUE, 90 FT. SOUTHERLY OF THE CENTERLINE OF CHAPMAN AND 41 FT. EASTERLY OF THE CENTERLINE OF NEWPORT. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

**PREPARED BY:**

CANNON  
 16842 VON KARMAN AVENUE SUITE  
 150 IRVINE, CALIFORNIA 92606  
 PHONE: (949) 753-8111

**NOTES:**

[xxx.xx] = DATA COLLECTED 3/28/2021

THE ELEVATION DATA ON THIS SURVEY HAS BEEN RAISED BY 0.10' TO MATCH THE PREVIOUS OCTOBER, 2020 BY HUITT-ZOLLARS.

**BASIS OF BEARINGS:**

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE GRID BEARING N89°51'09"W BETWEEN O.C.S. GPS CONTROL STATION NO. 6019R1 AND GPS NO. 6020 PER RECORDS ON FILE IN THE OFFICE OF THE ORANGE COUNTY SURVEYOR.

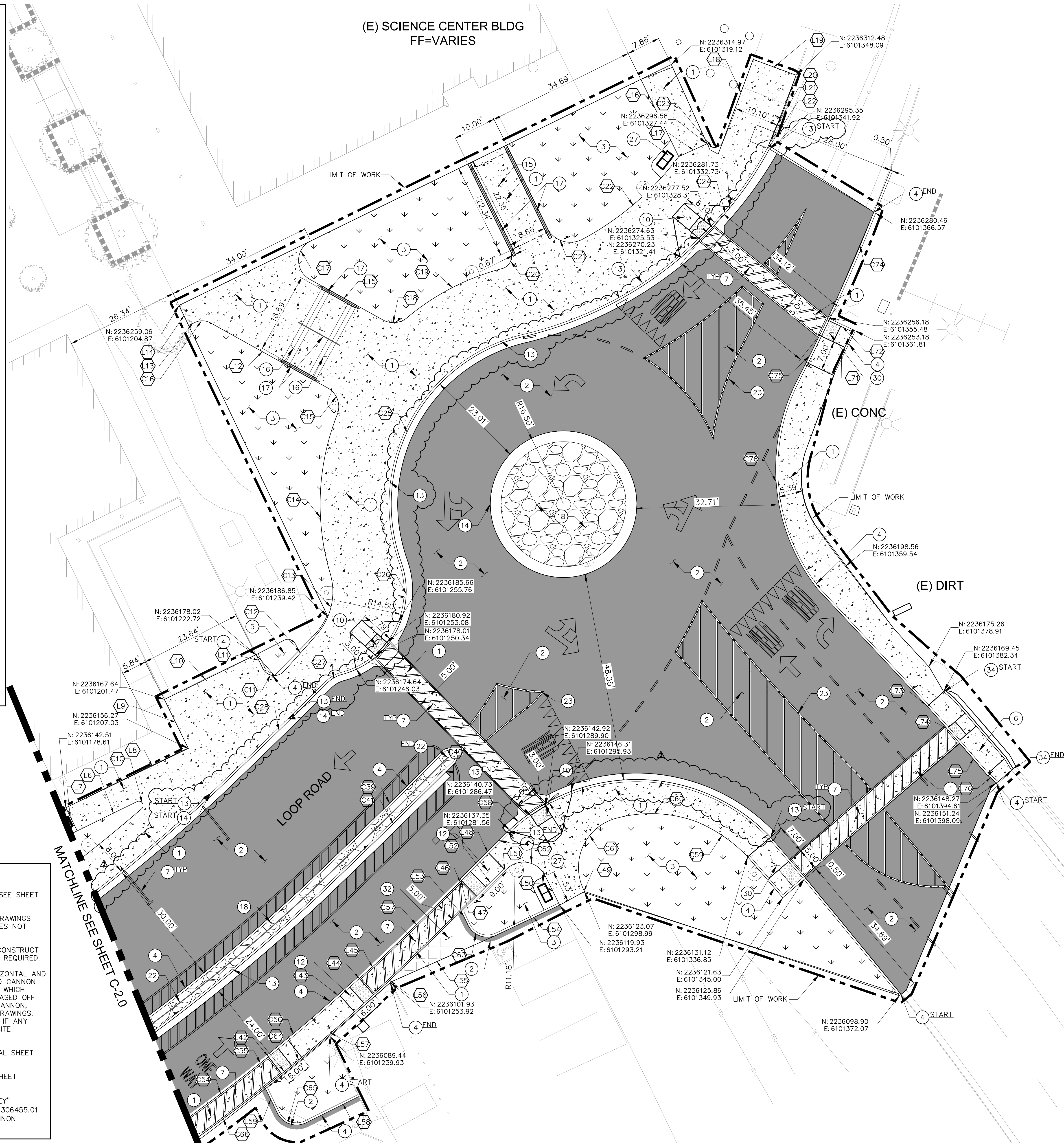
**BENCHMARK INFORMATION:**

COUNTY OF ORANGE B.M. NO. 3D-154-91  
 FOUND ORANGE COUNTY SURVEYOR'S 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "3D-154-91", SET IN THE NORTHWESTERLY CORNER OF A 4 FT. BY 15 FT. CONCRETE CATCH BASIN. MONUMENT IS LOCATED IN THE SOUTHEASTERLY CORNER OF THE INTERSECTION OF CHAPMAN AVENUE AND NEWPORT AVENUE, 90 FT. SOUTHERLY OF THE CENTERLINE OF CHAPMAN AND 41 FT. EASTERLY OF THE CENTERLINE OF NEWPORT. MONUMENT IS SET LEVEL WITH THE SIDEWALK.

ELEVATION = 510.935' (NAVD '88 / 1991 ADJ.)

**SHEET NOTES:**

- FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS, SEE SHEET C-1.0.
- SEE ARCHITECTURAL, ELECTRICAL AND LANDSCAPE DRAWINGS FOR OTHER SITE RELATED DIMENSIONS AND GRID LINES NOT SHOWN ON THIS DRAWING.
- FOR ANY TRANSITION FROM PHASE 1 TO PHASE 2, CONSTRUCT ASPHALT PAVEMENT AT LESS THAN 5% MAXIMUM AS REQUIRED.
- CONTRACTOR TO USE AND VERIFY BENCHMARK, HORIZONTAL AND VERTICAL CONTROL SET FOR BY HUITT-ZOLLARS AND CANNON TOPOGRAPHIC SURVEYS. CONTRACTOR TO DETERMINE WHICH BENCHMARK, HORIZONTAL AND VERTICAL CONTROL BASED OFF THE PROVIDED SURVEY FROM HUITT-ZOLLARS AND CANNON, ALONG WITH THE SCOPE OF WORK SHOWN ON THE DRAWINGS. CONTRACTOR TO NOTIFY DISTRICT AND DESIGN TEAM IF ANY DISCREPANCY IS ENCOUNTERED PRIOR TO POURING SITE FLATWORK.
- SEE ENLARGED FIRE ACCESS PLAN ON ARCHITECTURAL SHEET A-0.01 FOR FIRE LANE DELINEATION.
- SEE ENLARGED SIGNAGE PLAN ON ARCHITECTURAL SHEET A-0.30 FOR SIGNAGE LEGEND AND LOCATIONS.
- FOR EXISTING CONDITIONS, SEE "TOPOGRAPHIC SURVEY" PROVIDED BY HUITT-ZOLLARS (10/29/20) - JOB# R306455.01 AND "TOPOGRAPHIC SURVEY MAP" PROVIDED BY CANNON (4/2/21) - JOB# 16035.00.



**CONSTRUCTION NOTES:**

- CONSTRUCT NEW CONCRETE PAVEMENT PER DETAIL 4 ON SHEET C-5.0. SEE PAVEMENT SECTION DETAIL FOR THICKNESSES FOR PAVEMENT LOADING SCENARIOS.
- CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHEET C-5.0. SEE PAVEMENT SECTION DETAIL FOR THICKNESSES FOR PAVEMENT LOADING SCENARIOS.
- PLANTER AREA PER LANDSCAPE DRAWINGS.
- CONSTRUCT CONCRETE CURB PER DETAIL 2 ON SHEET C-5.0.
- NEW MULCH PER LANDSCAPE DRAWINGS.
- CONSTRUCT CURB RAMP PER DETAIL 1 TYPE-A ON SHEET C-5.1.
- NEW STRIPING PER ARCHITECTURAL DRAWINGS.
- CONSTRUCT CURB RAMP PER DETAIL 1 TYPE-C ON SHEET C-5.1.
- CONSTRUCT CURB RAMP PER DETAIL 1 TYPE-D ON SHEET C-5.1.
- CONSTRUCT CURB AND GUTTER PER DETAIL 3 ON SHEET C-5.1.
- CONSTRUCT ROLLING CURB PER DETAIL 6 ON SHEET C-5.0.
- CONSTRUCT ACCESSIBLE RAMP AND CHEEKWALL PER LANDSCAPE DRAWINGS ON SHEET 1/L-2.02.
- NEW HANDRAIL PER LANDSCAPE DRAWINGS.
- NEW COBBLE STONE PAVING PER LANDSCAPE DRAWINGS.
- NEW GUARDRAIL FENCING PER LANDSCAPE DRAWINGS.
- INSTALL TRAFFIC DOTS PER ARCHITECTURAL DRAWINGS.
- NEW TRASH RECEPTACLE AND CONCRETE PAD PER LANDSCAPE DRAWINGS. SEE DETAIL 6 ON SHEET
- CONSTRUCT CURB RAMP PER DETAIL 1 TYPE-B ON SHEET C-5.1.
- OVERLAY WITH NEW LAYERS OF AC PAVEMENT PER DETAIL 5 ON SHEET C-5.1.
- CONSTRUCT CONCRETE CURB AND GUTTER PER DETAIL 2 ON SHEET C-5.3.

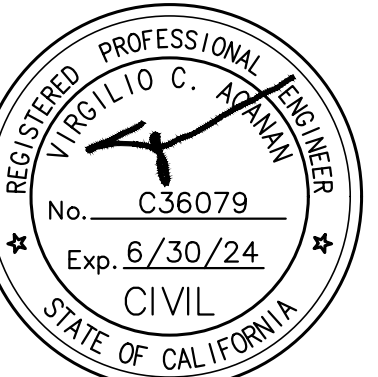
**LEGENDS:**

- CONSTRUCT NEW AC PAVEMENT PER DETAIL 1 ON SHEET C-5.0.
- CONSTRUCT NEW CONCRETE PAVEMENT OVER CAB PER DETAIL 4 ON SHEET C-5.0.
- NEW PLANTER AREA PER LANDSCAPE DRAWINGS.
- NEW COBBLE STONE PAVING PER LANDSCAPE DRAWINGS.
- NEW STRIPING PER ARCHITECTURAL DRAWINGS.
- INSTALL TRUNCATED DOMES PER DETAIL 8 ON SHEET C-5.0.
- OVERLAY WITH NEW LAYERS OF AC PAVEMENT PER DETAIL 5 ON SHEET C-5.1.
- LIMIT OF WORK

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
 CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
 PHASE 1

8045 E. Chapman Avenue, Orange, CA 92666



**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	11/17/2023

DATE ISSUED: 2018-11-19

PROJECT NO: 2018-40167

DSA APPLICATION NO: 04-121029

SCALE: As indicated

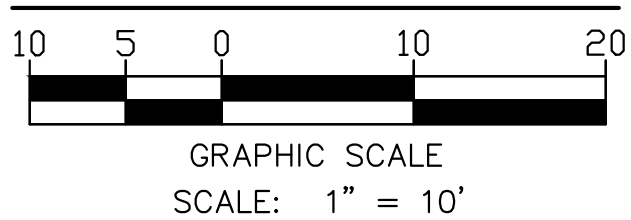
SHEET NUMBER: C-2.1

SHEET TITLE:

SITE CONTROL PLAN



**SITE CONTROL PLAN**





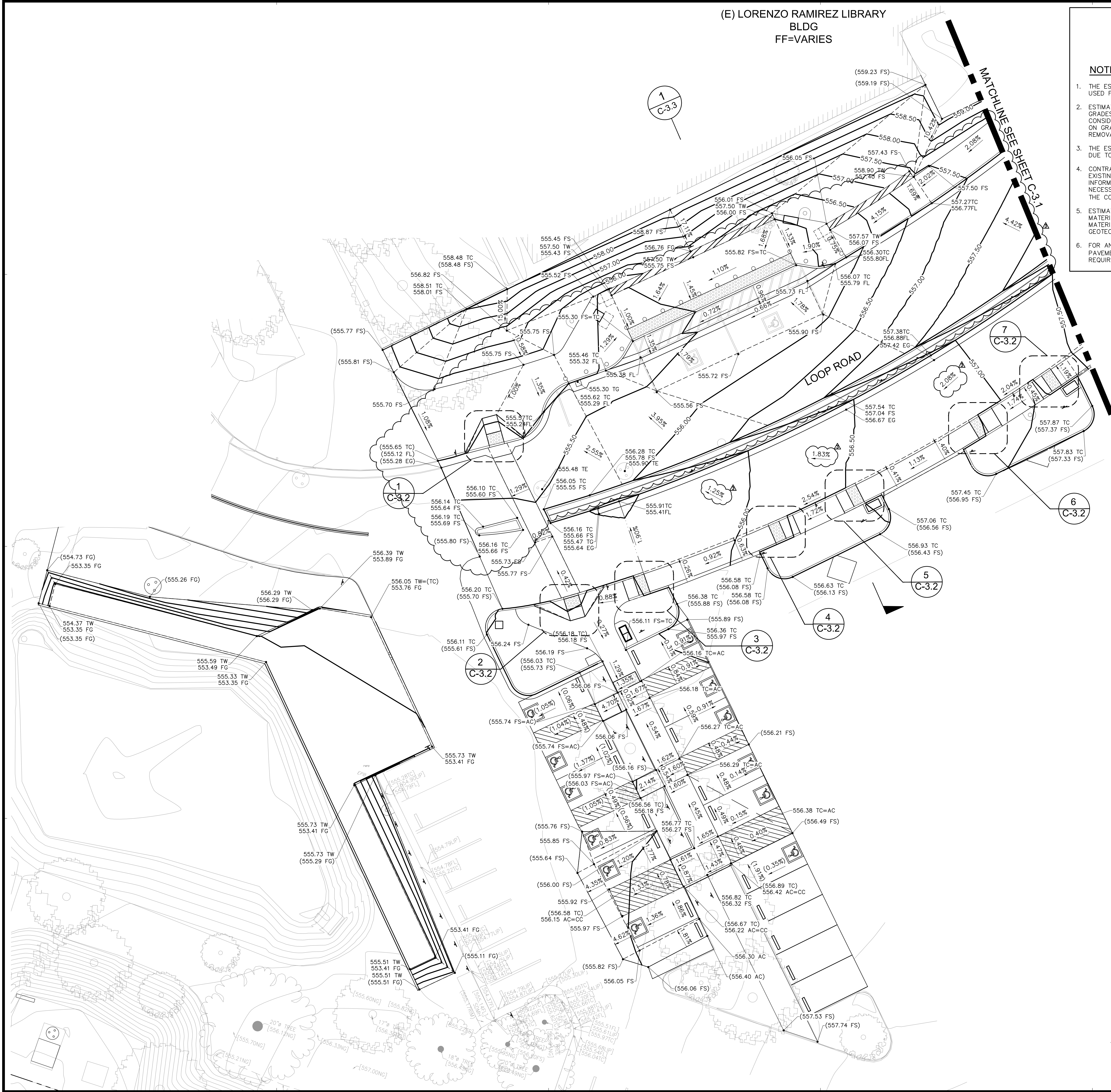
(E) LORENZO RAMIREZ LIBRARY  
BLDG  
FF=VARIES

ESTIMATED EARTHWORK QUANTITY

ESTIMATED CUT = 823 CY  
ESTIMATED FILL = 183 CY  
NET VOLUME = 640 CY (CUT)

NOTES:

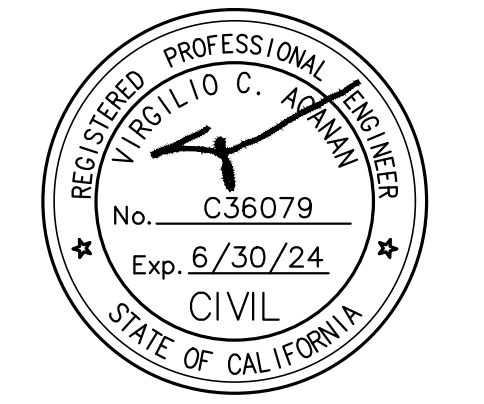
1. THE ESTIMATED QUANTITIES PROVIDED ABOVE ARE FOR REFERENCE ONLY TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY.
2. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES IN TOPOGRAPHICAL SURVEY. THE ESTIMATED EARTHWORK DOES NOT CONSIDER THE THICKNESS OF EACH PAVEMENT MATERIAL, FOUNDATION AND SLAB ON GRADE VOLUMES, THE REMOVAL OF ANY UNSUITABLE MATERIAL, AND THE REMOVAL OF EXISTING BASEMENTS, PITS, VAULTS, TOP SOIL OR VEGETATION.
3. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE FACTORS DUE TO COMPACTION OR ANY OVER EXCAVATION QUANTITIES.
4. CONTRACTOR SHALL PERFORM DETAILED QUANTITY TAKE-OFF BASED ON THE EXISTING AND NEW ELEVATIONS PROVIDED ON THESE DOCUMENTS AND INFORMATION PROVIDED IN THE SPECIFICATIONS AND GEOTECHNICAL REPORTS NECESSARY FOR HIS BID AND WORK. VCA IS NOT RESPONSIBLE AND LIABLE FOR THE CONTRACTOR'S EARTHWORK CALCULATIONS.
5. ESTIMATED EARTHWORK QUANTITIES ABOVE ASSUME THAT ALL ON-SITE MATERIALS ARE SUITABLE FOR BACKFILLING. HOWEVER, ACTUAL EXISTING ON-SITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT.
6. FOR ANY TRANSITION FROM PHASE 1 TO PHASE 2, CONSTRUCT ASPHALT PAVEMENT AND/OR CONCRETE PAVEMENT AT LESS THAN 5% MAXIMUM AS REQUIRED.



RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1

8045 E. Chapman Avenue, Orange, CA 92669

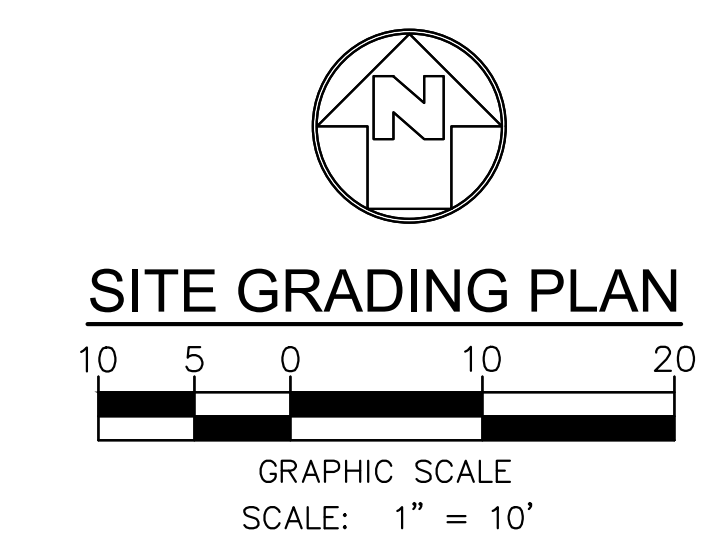


REVISIONS:

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
SCALE: As indicated  
SHEET NUMBER: C-3.0  
SHEET TITLE:

SITE GRADING PLAN





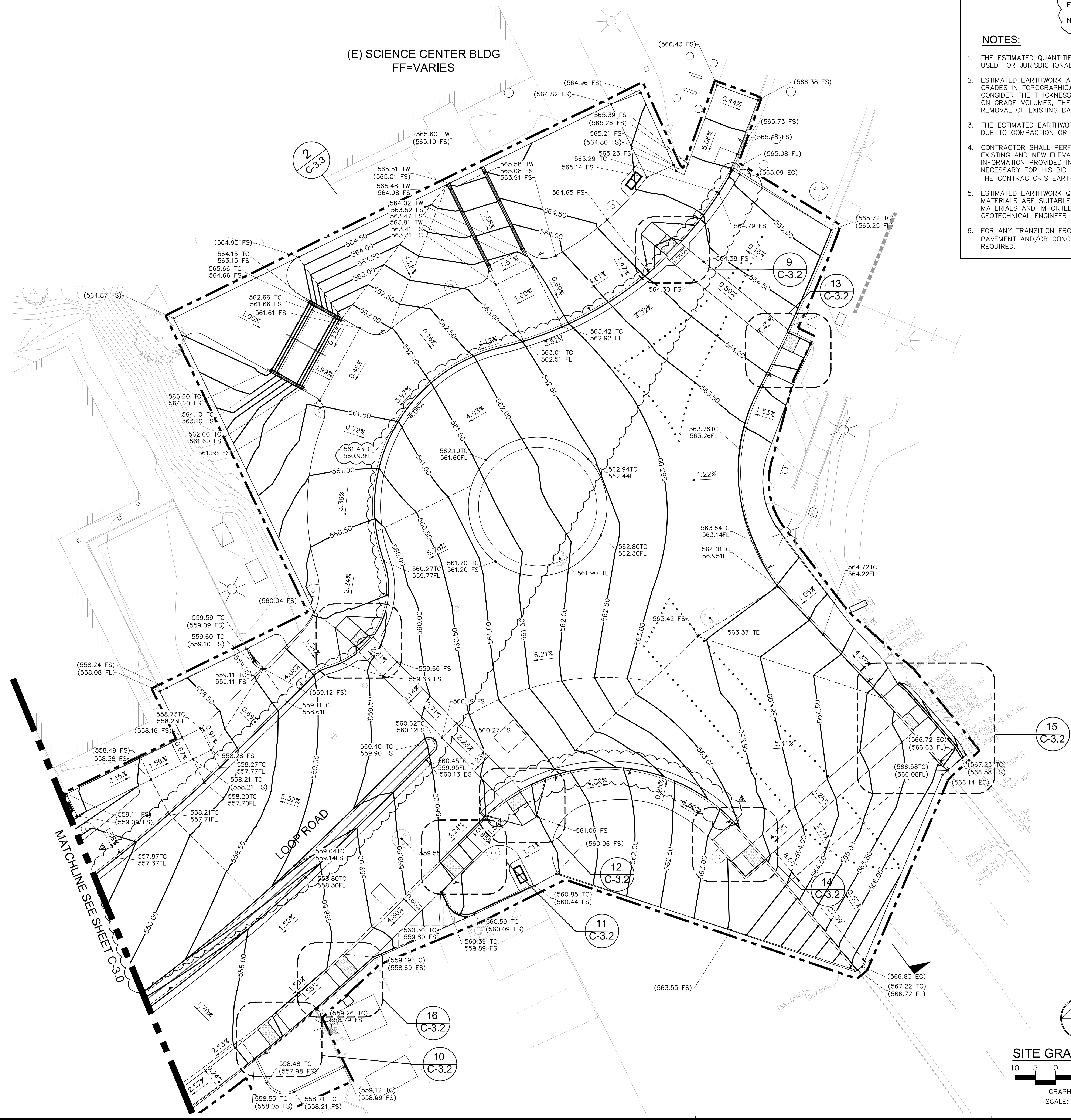
**ESTIMATED EARTHWORK QUANTITY**

ESTIMATED CUT = 823 CY  
ESTIMATED FILL = 183 CY  
NET VOLUME = 640 CY (CUT)

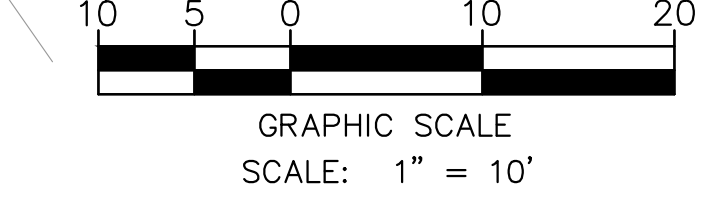
**NOTES:**

1. THE ESTIMATED QUANTITIES PROVIDED ABOVE ARE FOR REFERENCE ONLY TO BE USED FOR JURISDICTIONAL PLAN CHECKING AND PERMITTING PURPOSES ONLY.
2. ESTIMATED EARTHWORK ABOVE IS BASED ON DESIGN FINISH GRADES TO EXISTING GRADES IN TOPOGRAPHICAL SURVEY. THE ESTIMATED EARTHWORK DOES NOT CONSIDER THE THICKNESS OF EACH PAVEMENT MATERIAL, FOUNDATION AND SLAB ON GRADE VOLUMES, THE REMOVAL OF ANY UNSUITABLE MATERIAL, AND THE REMOVAL OF EXISTING BASEMENTS, PITS, VAULTS, TOP SOIL OR VEGETATION.
3. THE ESTIMATED EARTHWORK QUANTITIES DO NOT INCLUDE SHRINKAGE FACTORS DUE TO COMPACTION OR ANY OVER EXCAVATION QUANTITIES.
4. CONTRACTOR SHALL PERFORM DETAILED QUANTITY TAKE-OFF BASED ON THE EXISTING AND NEW ELEVATIONS PROVIDED ON THESE DOCUMENTS AND INFORMATION PROVIDED IN THE SPECIFICATIONS AND GEOTECHNICAL REPORTS NECESSARY FOR HIS BID AND WORK. VCA IS NOT RESPONSIBLE AND LIABLE FOR THE CONTRACTOR'S EARTHWORK CALCULATIONS.
5. ESTIMATED EARTHWORK QUANTITIES ABOVE ASSUME THAT ALL ON-SITE MATERIALS ARE SUITABLE FOR BACKFILLING. HOWEVER, ACTUAL EXISTING ON-SITE MATERIALS AND IMPORTED MATERIALS MUST FIRST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION, REMOVAL, OR REPLACEMENT.
6. FOR ANY TRANSITION FROM PHASE 1 TO PHASE 2, CONSTRUCT ASPHALT PAVEMENT AND/OR CONCRETE PAVEMENT AT LESS THAN 5% MAXIMUM AS REQUIRED.

(E) SCIENCE CENTER BLDG  
FF=VARIES



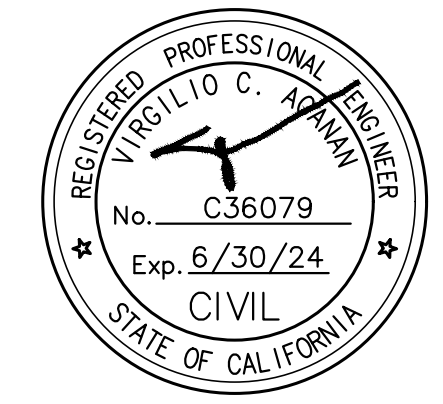
**SITE GRADING PLAN**



RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1

8045 E. Chapman Avenue, Orange, CA 92669



**REVISIONS:**

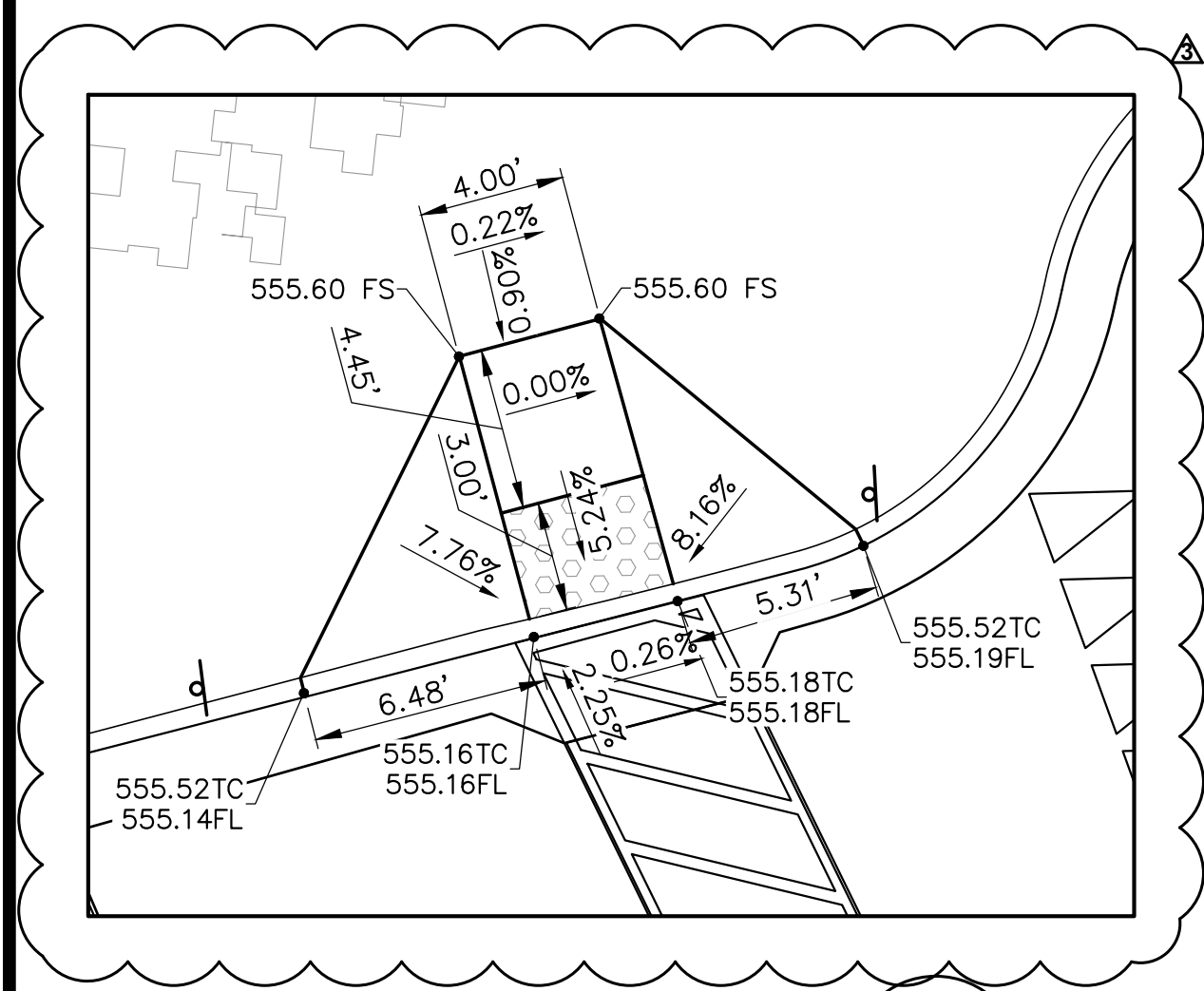
NO.	DESCRIPTION	DATE
1	ADDENDUM #3	1/17/2023

DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
SCALE: As indicated  
SHEET NUMBER: C-3.1  
SHEET TITLE:

**SITE GRADING PLAN**



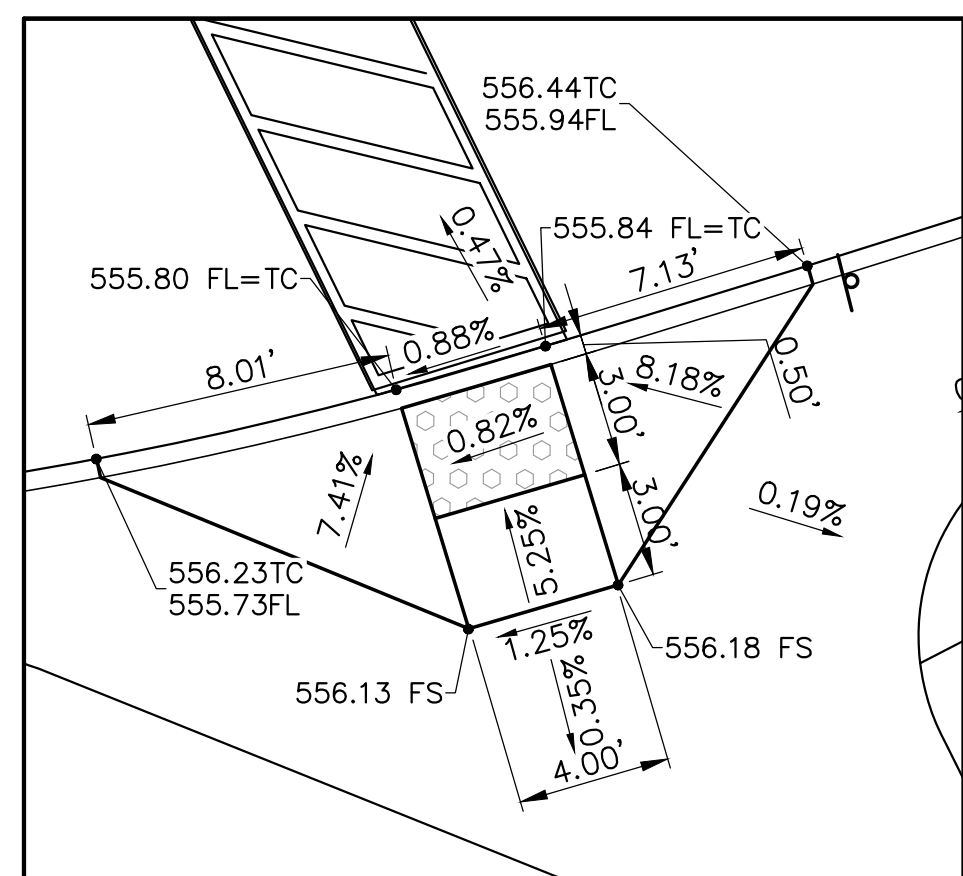




ENLARGED CURB RAMP

SCALE 1" = 5'

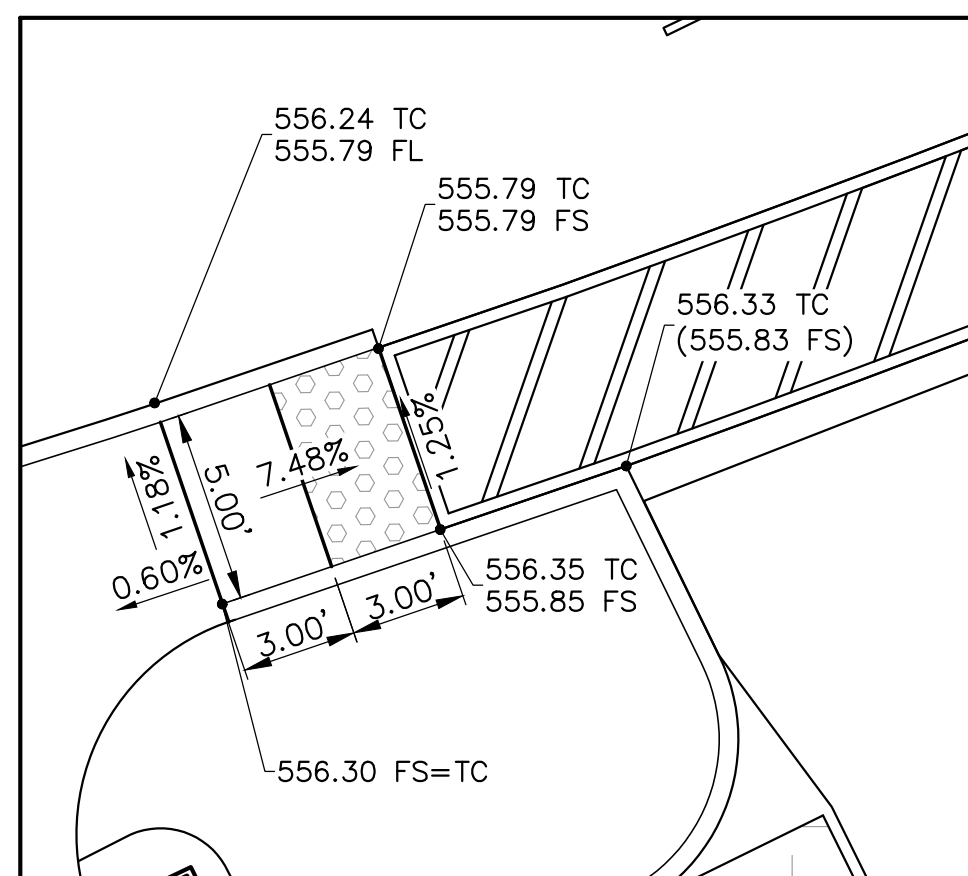
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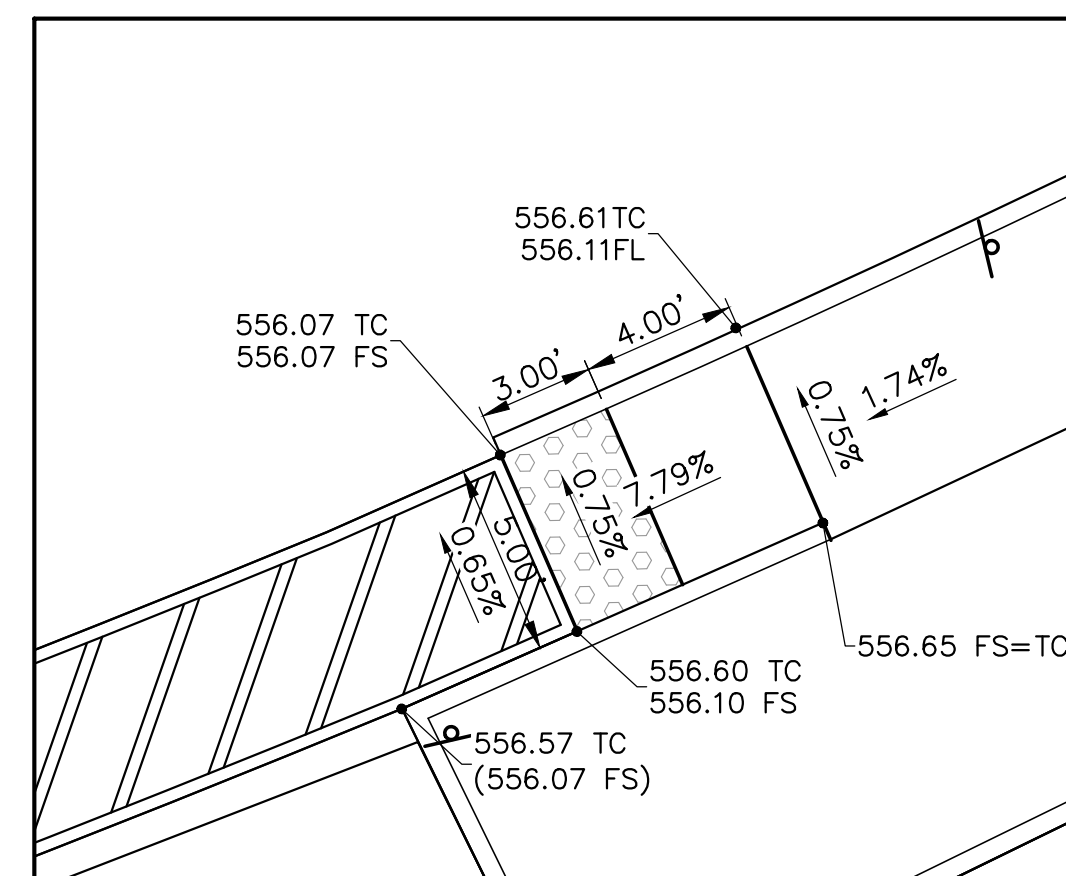
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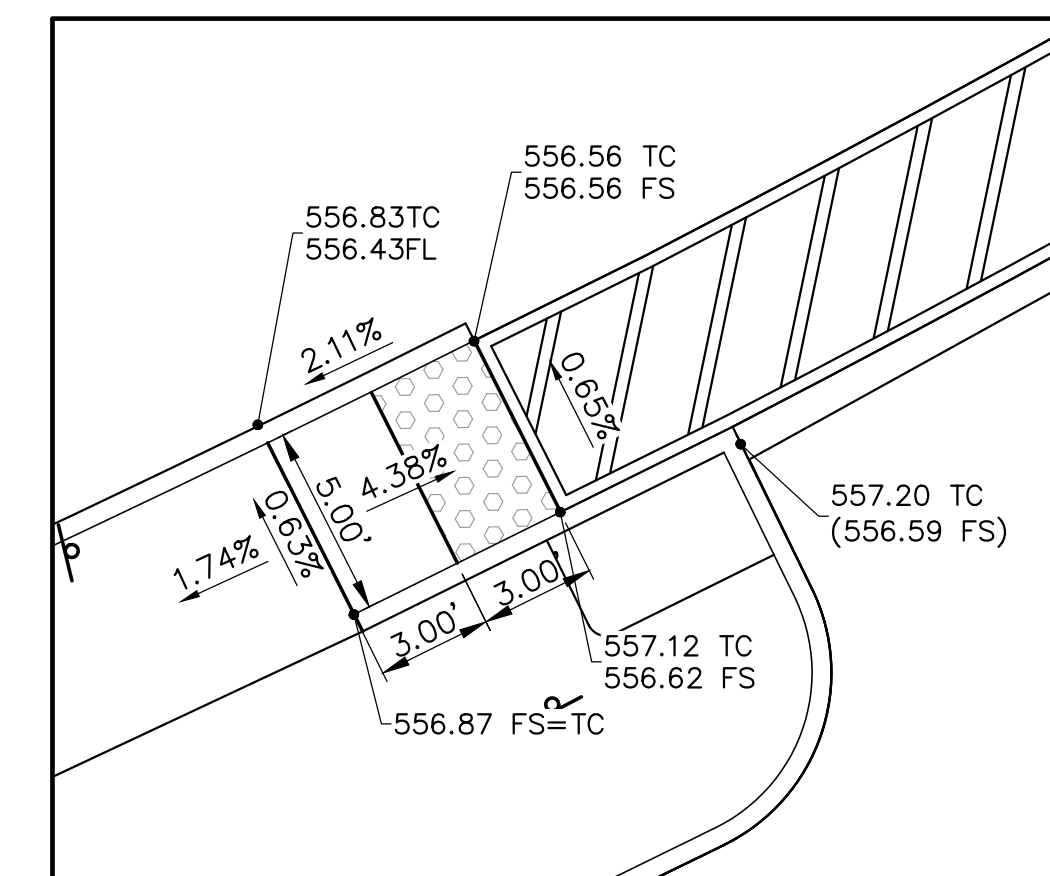
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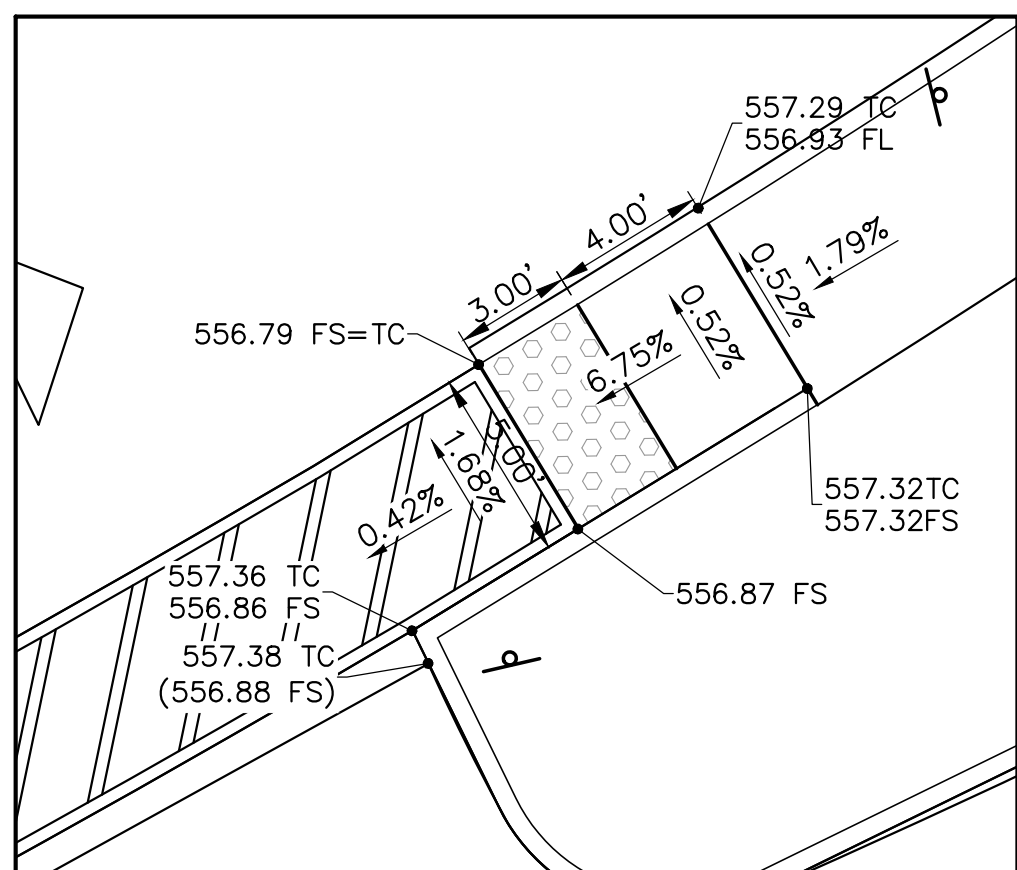
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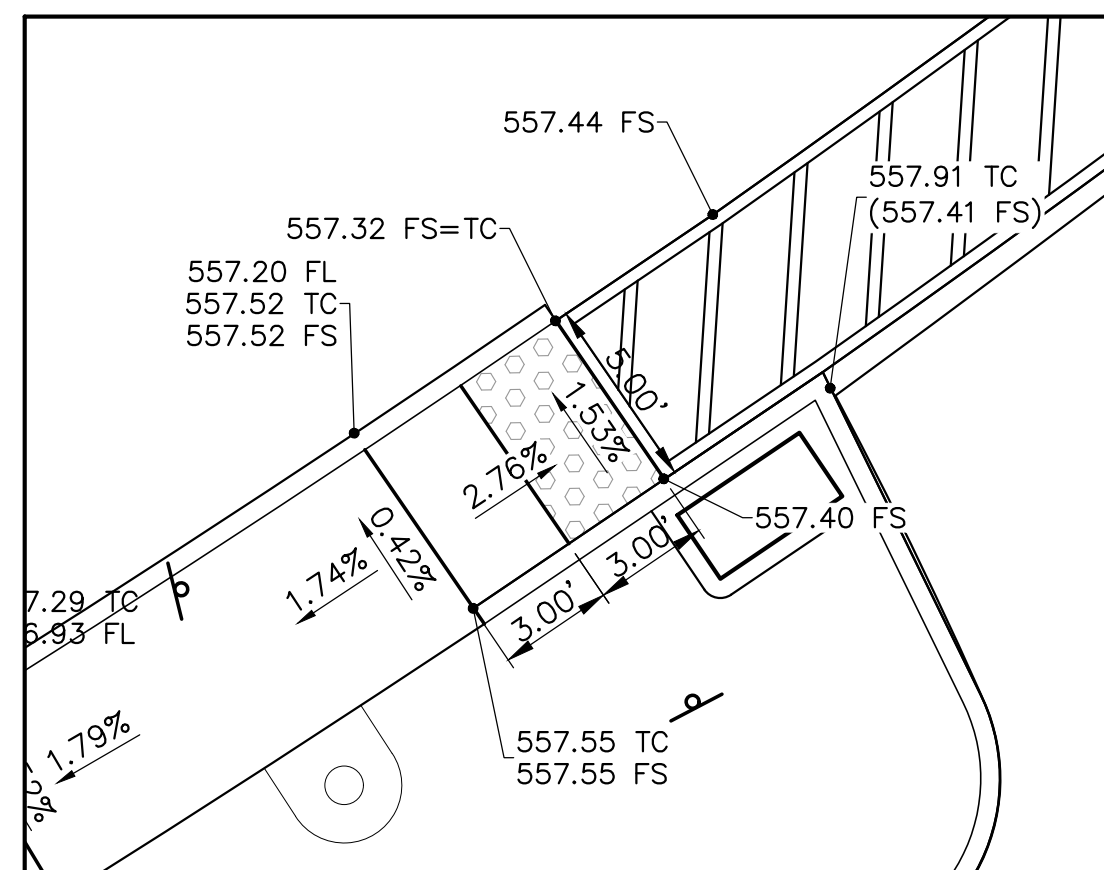
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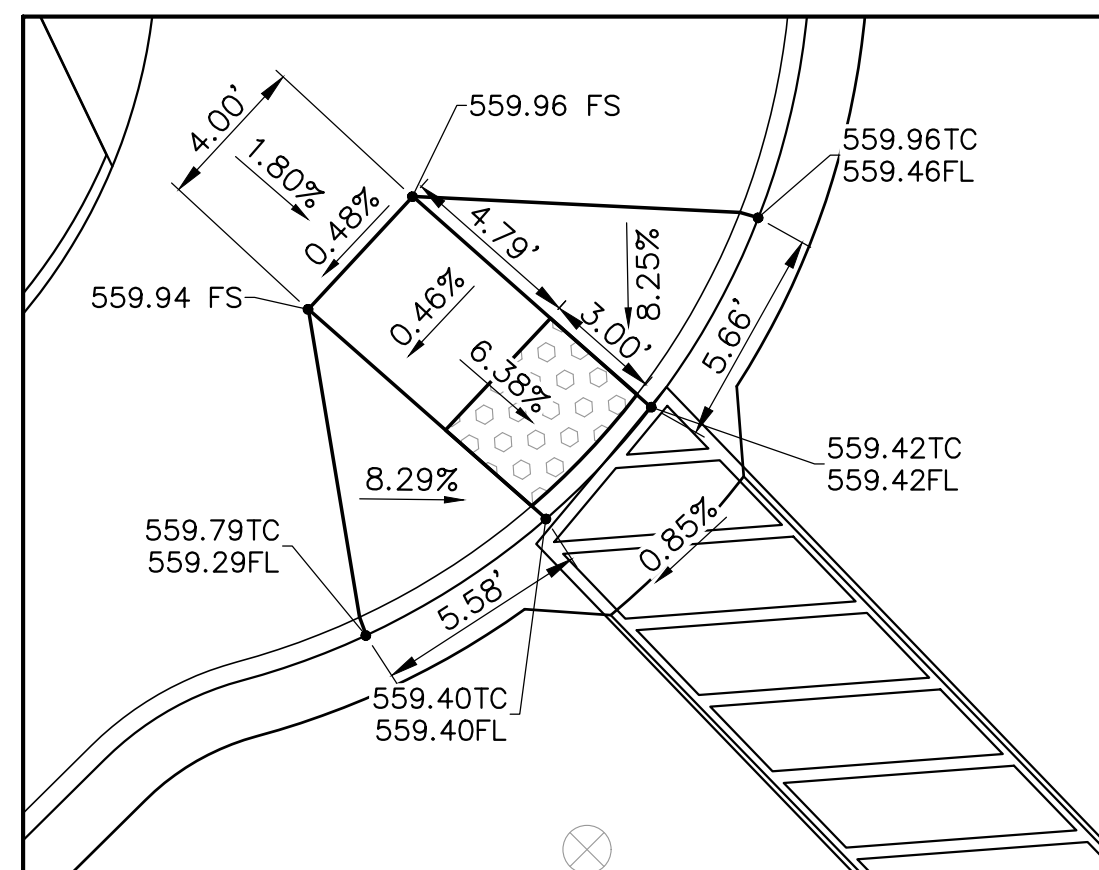
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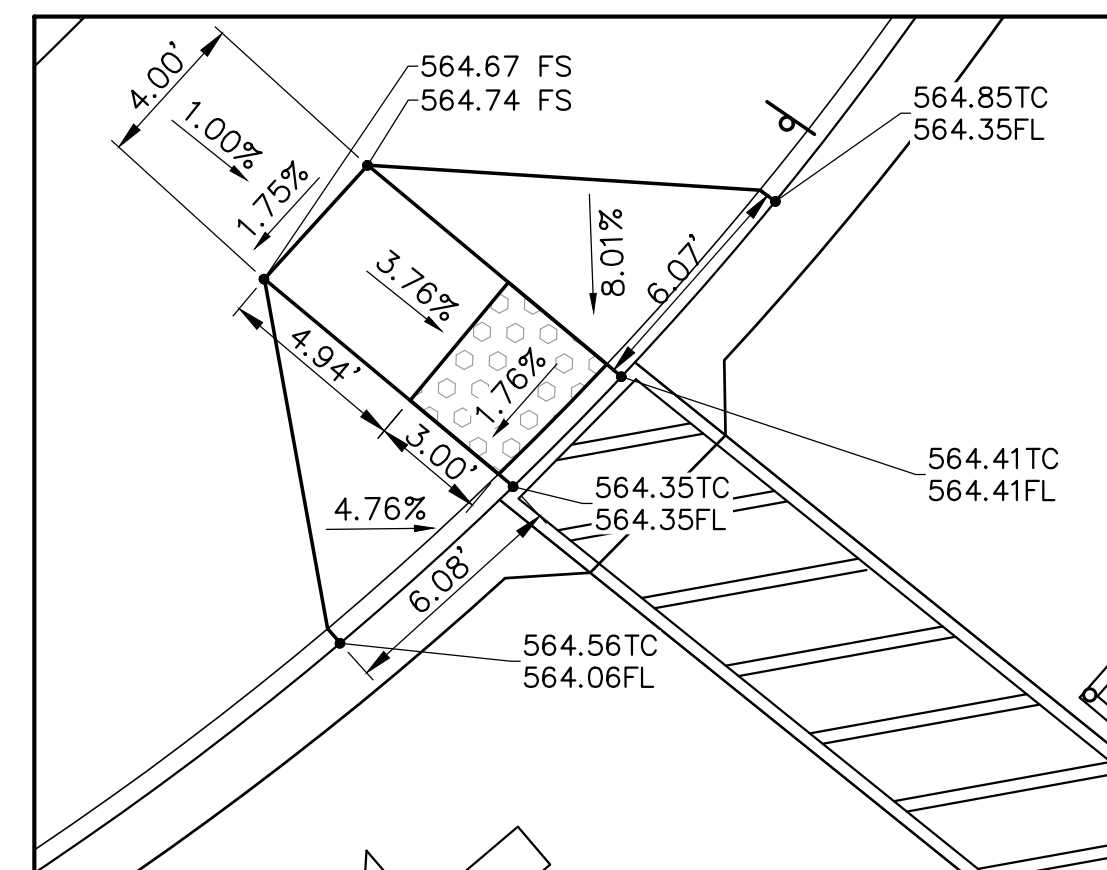
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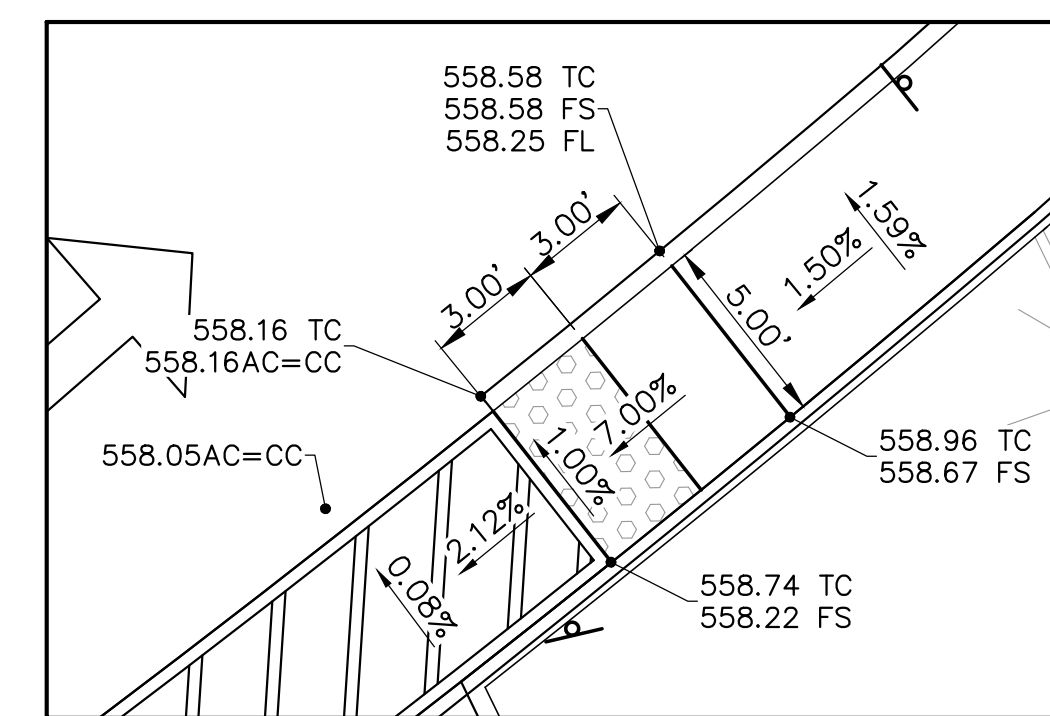
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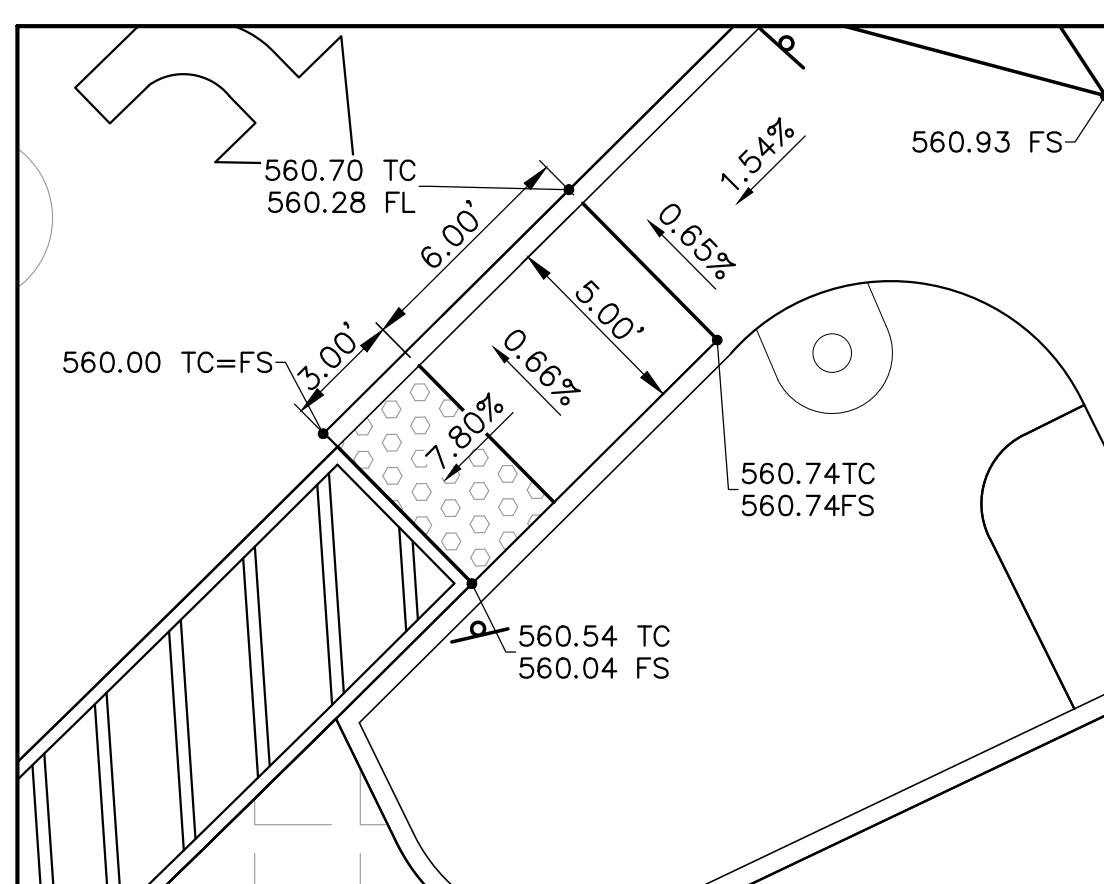
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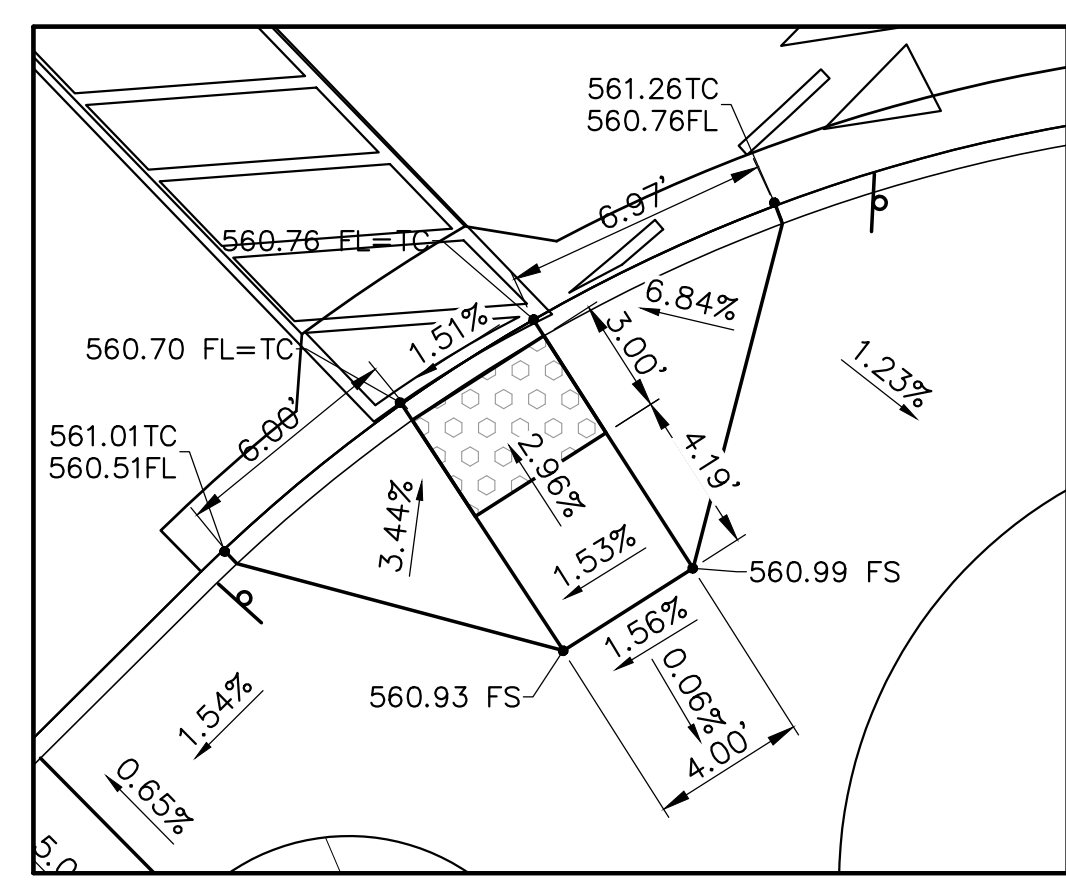
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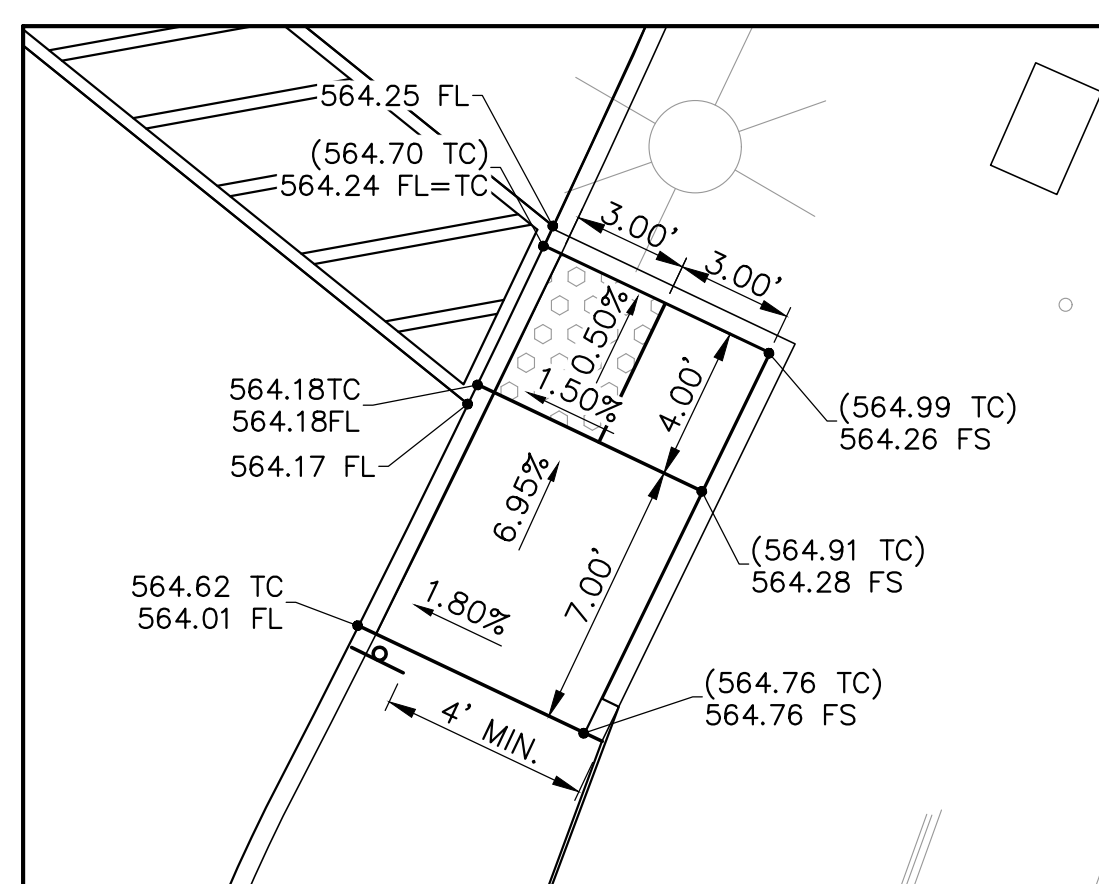
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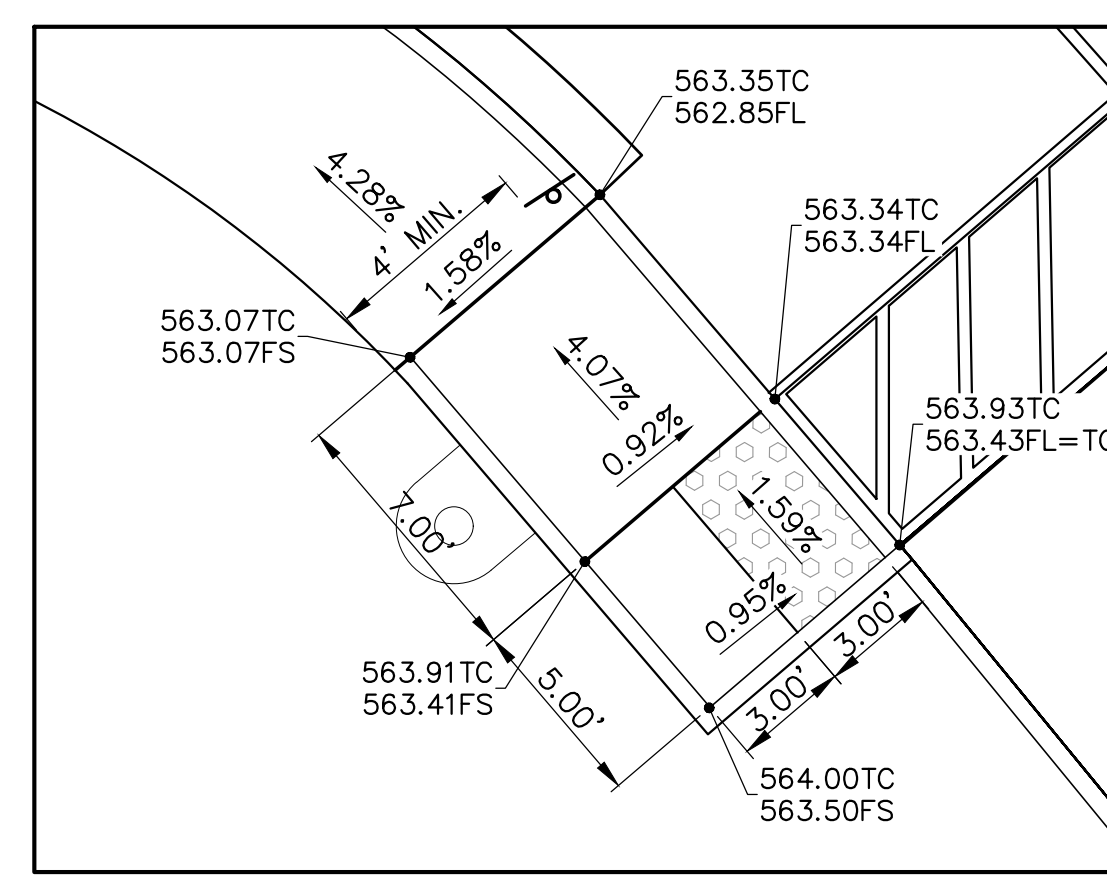
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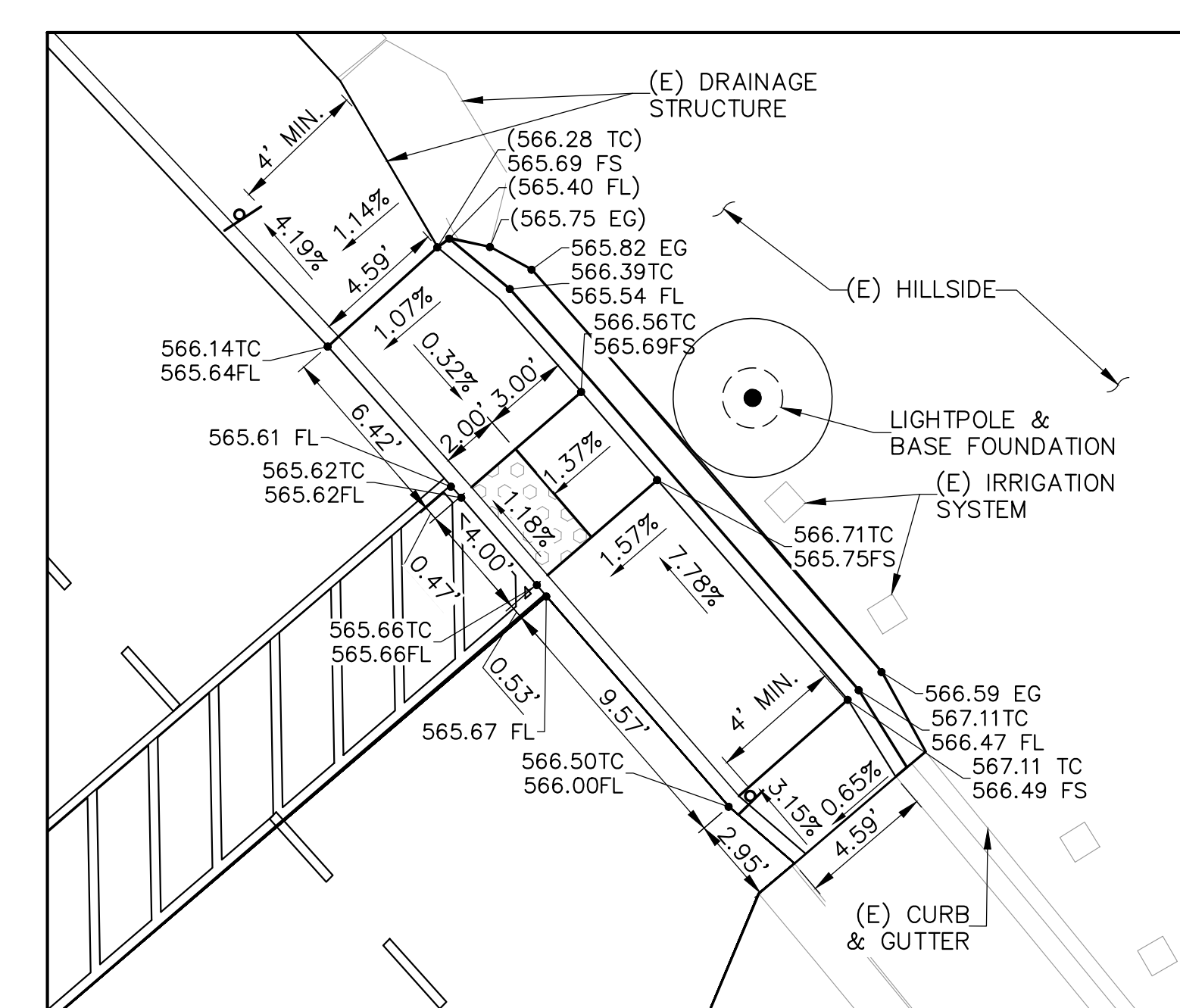
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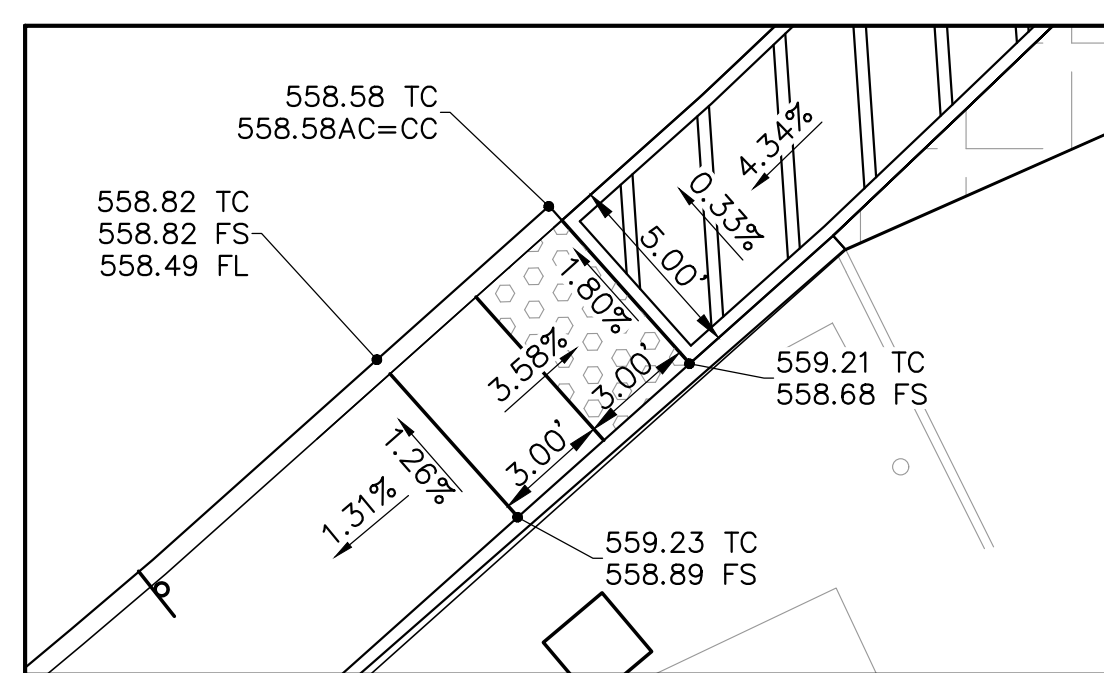
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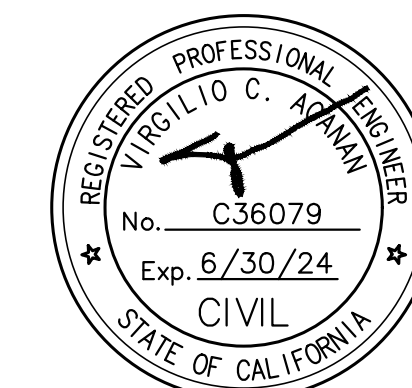
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ENLARGED CURB RAMP

SCALE 1" = 5'

16

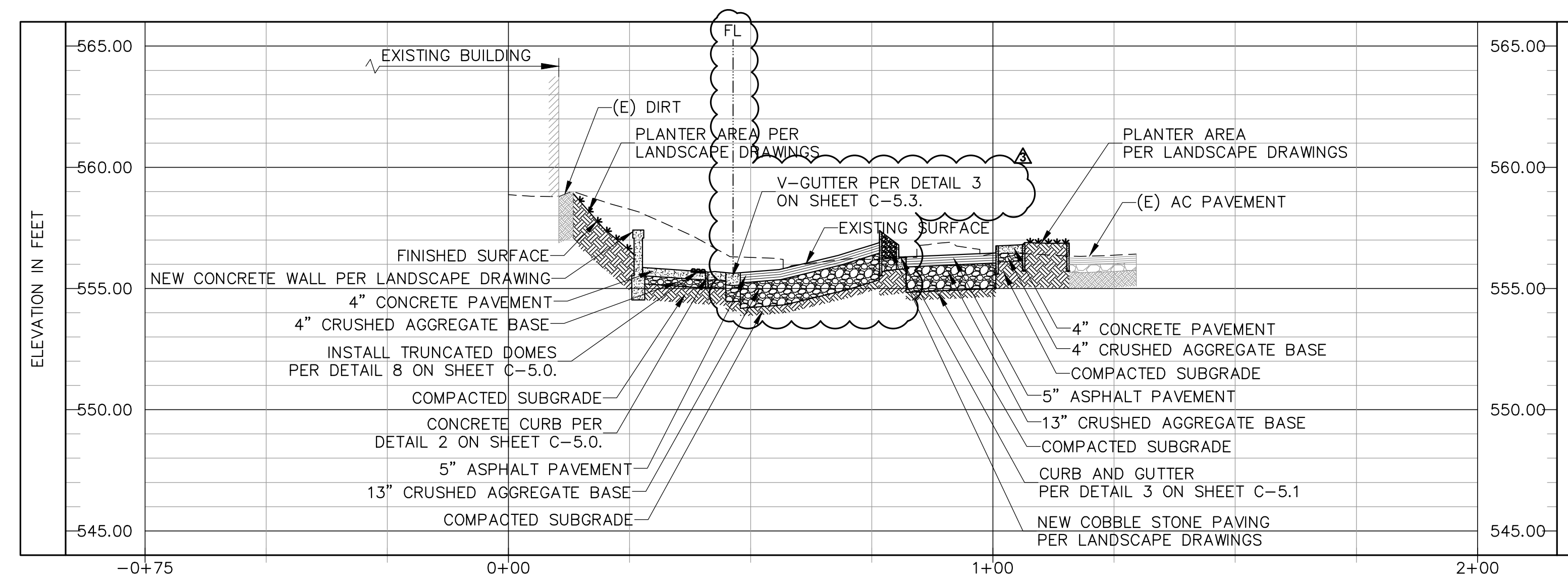


REVISIONS:

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

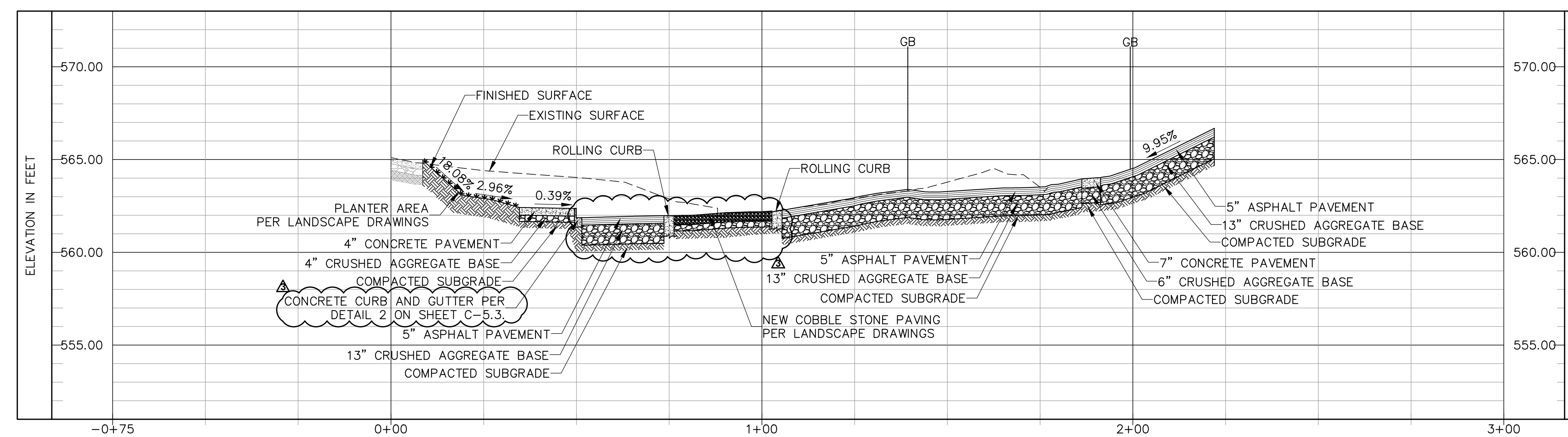
DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
SCALE: As indicated  
SHEET NUMBER: C-3.2  
SHEET TITLE:

ENLARGED SITE  
GRADING PLAN



GRADING SECTION 1  
SCALE HOR 1"=20' VER 1"=4'

1  
C-3.0



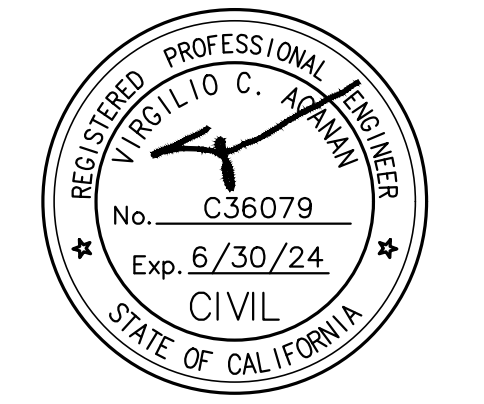
GRADING SECTION 2  
SCALE HOR 1"=20' VER 1"=4'

2  
C-3.1

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1

8045 E. Chapman Avenue, Orange, CA 92669



REVISIONS:

NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
SCALE: As indicated  
SHEET NUMBER: C-3.3  
SHEET TITLE:

SITE GRADING SECTIONS





**STORM DRAIN:**

- 1 INSTALL PVC SDR 35 STORM DRAIN PIPE AND FITTINGS. SEE PLAN FOR SIZES. FOR TRENCH SECTION, REFER TO DETAIL 4 ON SHEET C-5.1.
- 2 CONSTRUCT MANHOLE PER APWA 322-3 TO PROVIDE CONNECTION TO EXISTING STORM DRAIN LINE. D1=D2=36", B=15", A=45". CONTRACTOR TO VERIFY IN FIELD SIZE AND INVERT PRIOR TO THE INSTALLATION OF PIPE.
- 3 INSTALL 24"x24" BUBBLER CATCH BASIN PER DETAIL 2 ON SHEET C-5.2.
- 4 INSTALL NEW SIDE OPENING CATCH BASIN PER DETAIL 6 ON SHEET C-5.2.
- 5 INSTALL NEW GRATE ON TOP OF EXISTING SIDE OPENING CATCH BASIN. GRATE TO BE ADA COMPLIANT AND DESIGNED FOR H-20 LOADING.
- 6 INSTALL NEW OVERFLOW STRUCTURE PER DETAIL 3 ON SHEET C-5.2.
- 7 CAP AND PLUG FOR FUTURE STORM DRAIN CONNECTION.
- 8 NOT USED.
- 9 INSTALL STORM DRAIN CLEANOUT PER DETAIL 4 ON SHEET C-5.2.
- 12 INSTALL LANDSCAPE AREA DRAIN PER LANDSCAPE DRAWINGS.
- 13 INSTALL 12"x12" CATCH BASIN PER DETAIL 5 ON SHEET C-5.3.
- 14 CONNECT EXISTING 15" STORM DRAIN INLET LINE TO EXISTING SIDE-OPENING CATCH BASIN OUTLET LINE. CONTRACTOR TO VERIFY IN FIELD SIZE AND INVERT PRIOR TO THE INSTALLATION OF PIPE.

**SHEET NOTES:**

1. FOR EXISTING UTILITIES, SEE "GROUND PENETRATION RADAR (GPR) PLAN" PROVIDED BY ULTRA ENGINEERING (10/29/20).

**IRRIGATION WATER:**

- 21 NEW LOCATION OF EXISTING IRRIGATION WATER REDUCED PRESSURE BACKFLOW PREVENTER. CONNECT TO EXISTING ON-SITE FIRE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF IRRIGATION WATER SYSTEM.
- 23 NEW LOCATION OF EXISTING RISER. CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF IRRIGATION WATER SYSTEM.
- 24 NEW LOCATION OF EXISTING HOSE BIBB. CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF IRRIGATION WATER SYSTEM.

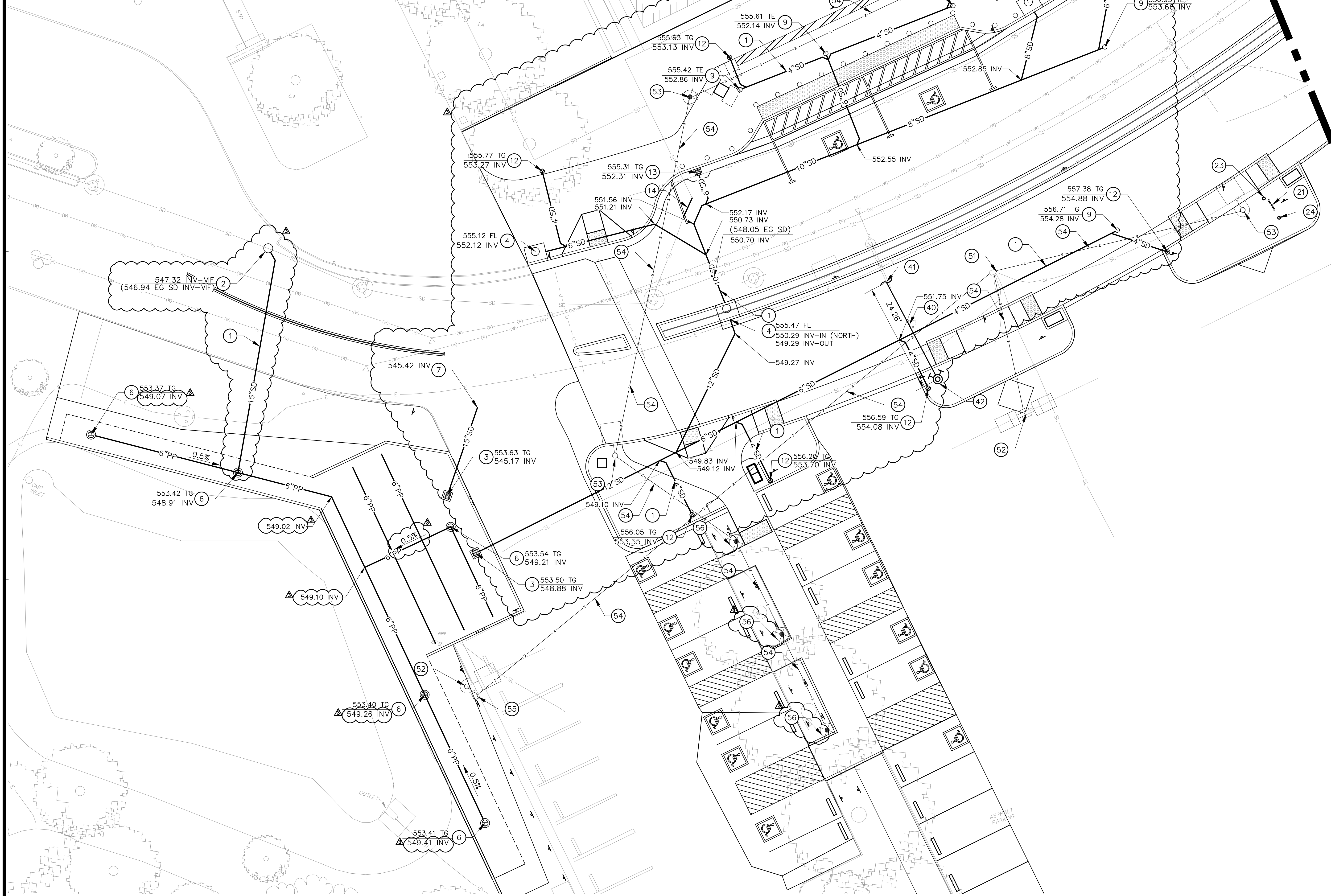
(E) LORENZO RAMIREZ LIBRARY  
BLDG  
FF=VARIES

**FIRE WATER:**

- 40 INSTALL 6" AWWA C900 FIRE WATER LINE. PER DETAIL 4 ON SHEET C-5.1.
- 41 CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF FIRE WATER SYSTEM.
- 42 NEW LOCATION OF EXISTING FIRE HYDRANT. INSTALL HYDRANT WITH THRUSTBLOCK PER DETAIL 1 ON SHEET C-5.3.

**OTHER:**

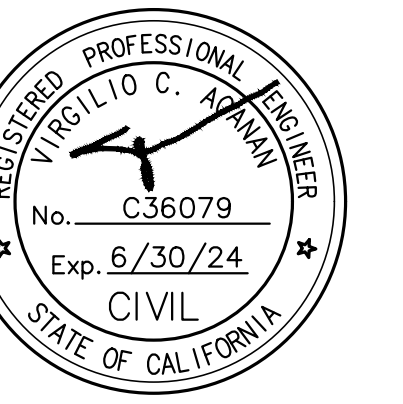
- 51 LOWER VAULT /PULL BOXES TO STREET LEVEL AND REPLACE WITH TRAFFIC RATED COVER AS REQUIRED PER ELECTRICAL DRAWINGS.
- 52 NEW LOCATION OF RELOCATED EXISTING LIGHT POLE. CONNECT TO EXISTING CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED PER ELECTRICAL DRAWINGS.
- 53 NEW LIGHT POLE PER ELECTRICAL DRAWINGS.
- 54 NEW UNDERGROUND ELECTRICAL LINE PER ELECTRICAL DRAWINGS.
- 55 NEW LOCATION OF RELOCATED ELECTRICAL PULL BOX PER ELECTRICAL DRAWINGS.
- 56 NEW BOLLARD WITH LIGHT PER ELECTRICAL AND LANDSCAPE DRAWINGS.



RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
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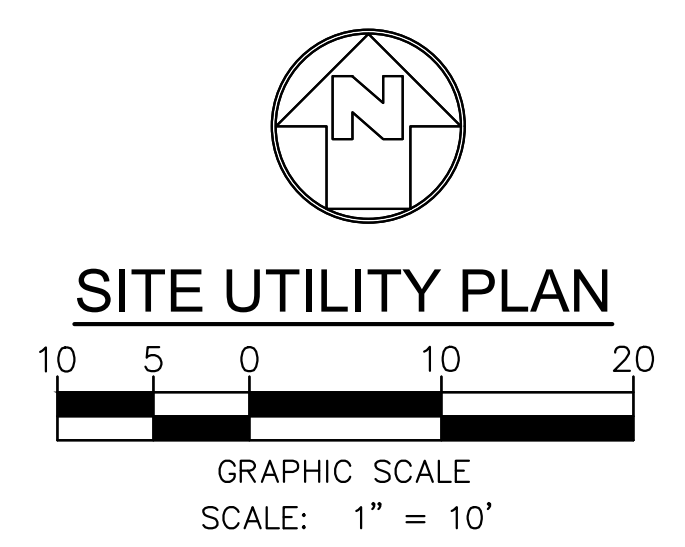


**REVISIONS:**

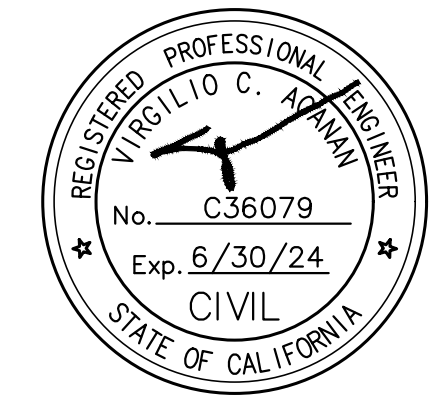
NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
SCALE: As indicated  
SHEET NUMBER: C-4.0  
SHEET TITLE:

**SITE UTILITY PLAN**







REVISIONS:

NO.	DESCRIPTION	DATE
1	ADDENDUM #3	1/17/2023

DATE ISSUED: 2018-11-19  
PROJECT NO: 2018-40167  
DSA APPLICATION NO: 04-121029  
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SHEET NUMBER: C-4.1  
SHEET TITLE:

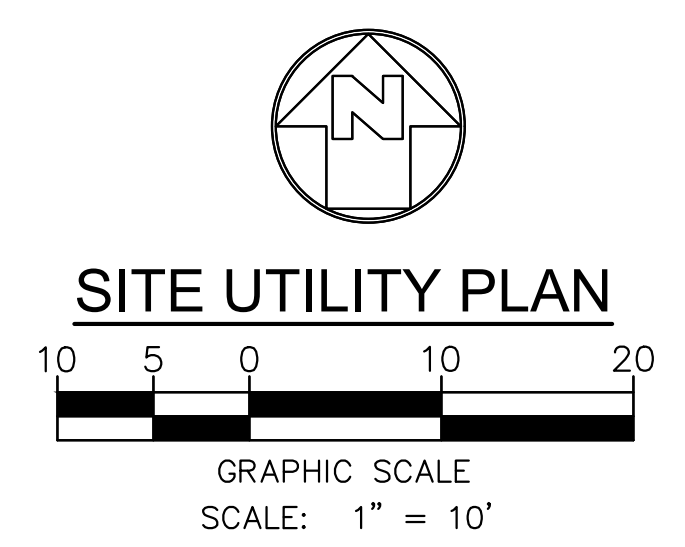
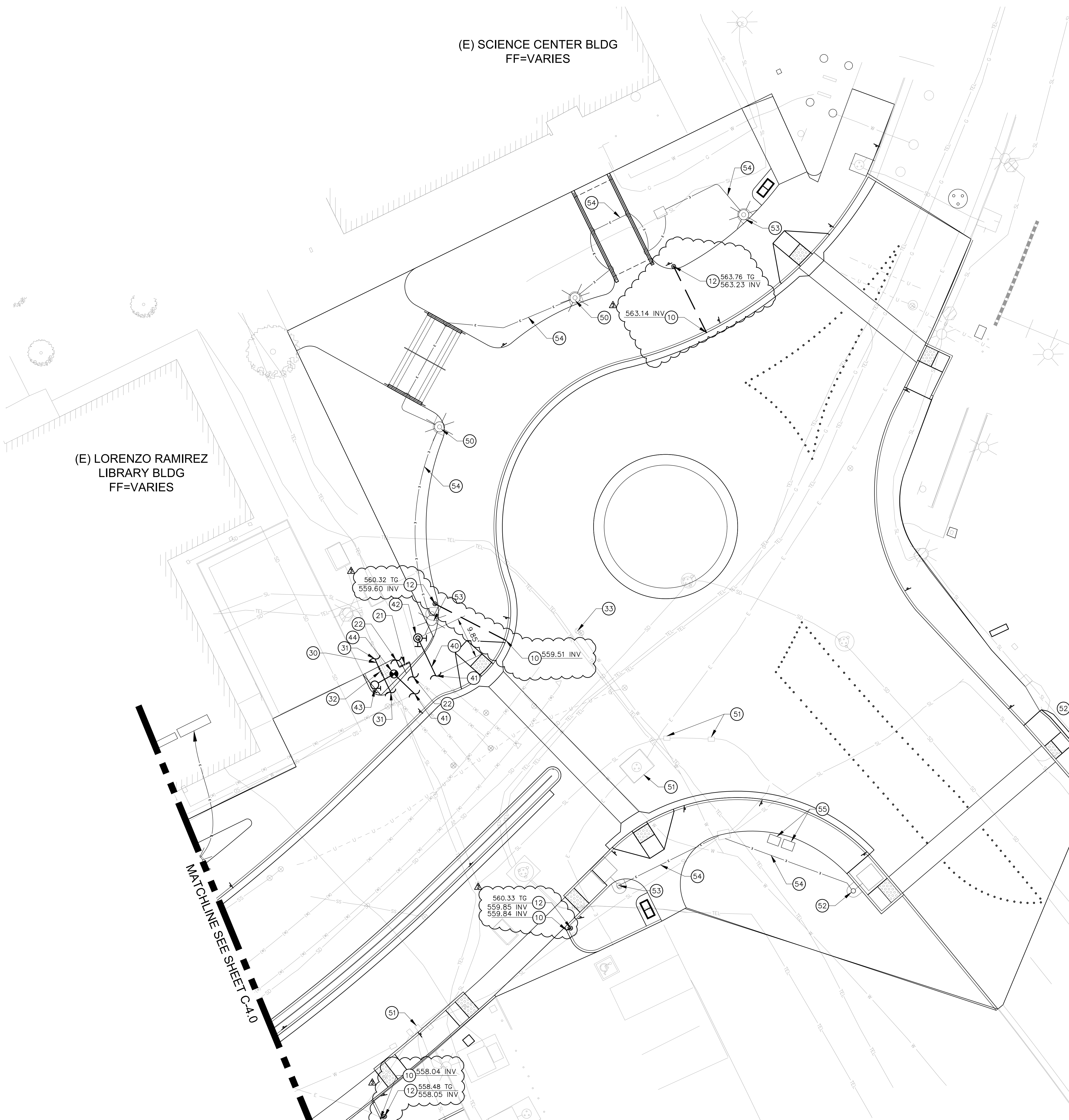
SITE UTILITY PLAN

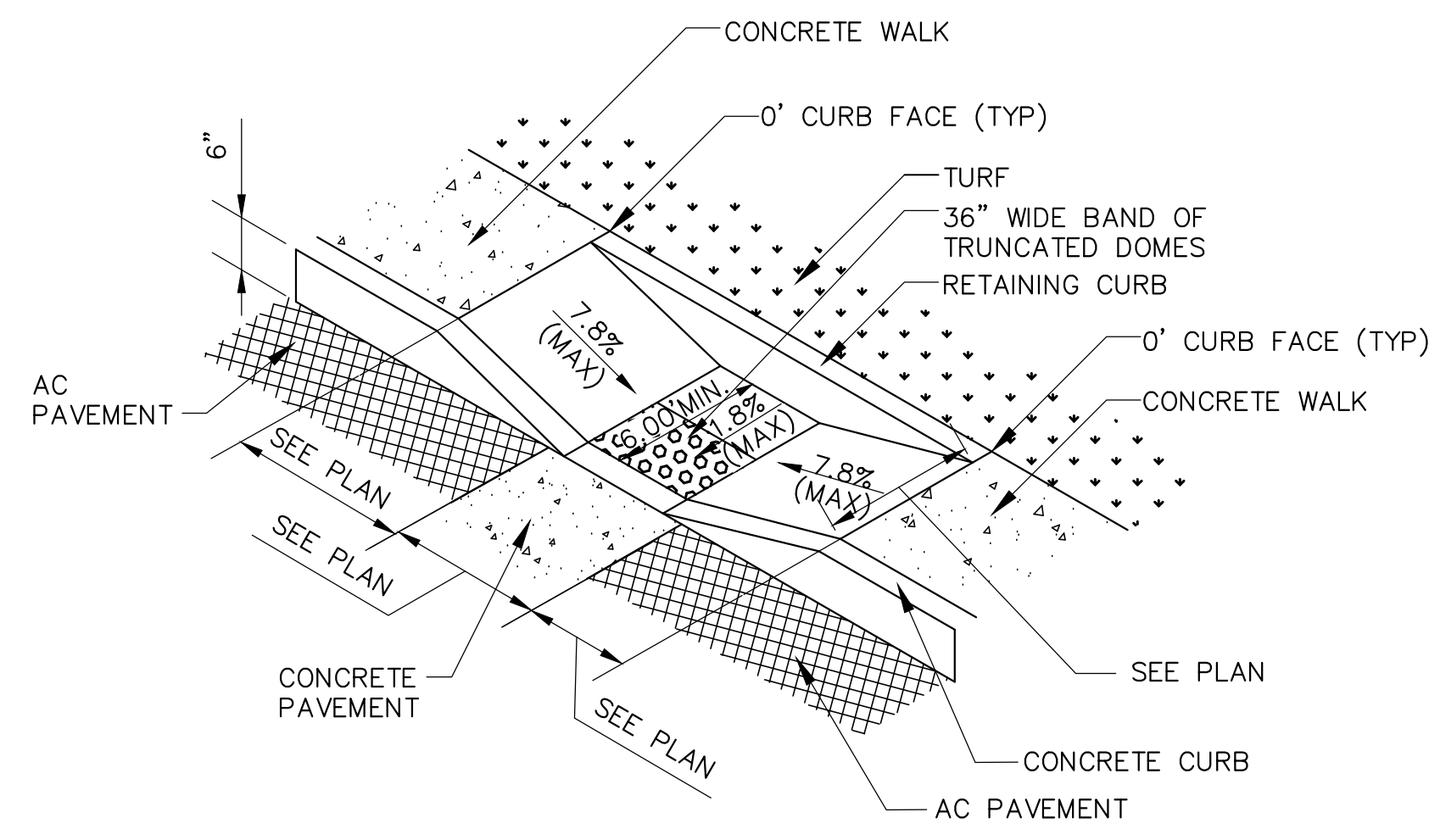


- STORM DRAIN:**
- 10 INSTALL CURB DRAIN PER DETAIL 7 ON SHEET C-5.2 AND PER LANDSCAPE DRAWINGS.
  - 12 INSTALL LANDSCAPE AREA DRAIN PER LANDSCAPE DRAWINGS.
- IRRIGATION WATER:**
- 21 NEW LOCATION OF EXISTING IRRIGATION WATER REDUCED PRESSURE BACKFLOW PREVENTER. CONNECT TO EXISTING ON-SITE FIRE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF IRRIGATION WATER SYSTEM.
  - 22 CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF IRRIGATION WATER SYSTEM.
- DOMESTIC WATER:**
- 30 INSTALL 2" COPPER PIPE TYPE K TUBING FOR DOMESTIC WATER LINE PER DETAIL 4 ON SHEET C-5.1. SEE PLAN FOR SIZES
  - 31 CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF DOMESTIC WATER SYSTEM.
  - 32 NEW LOCATION OF EXISTING DOMESTIC WATER REDUCED PRESSURE BACKFLOW PREVENTER.
  - 33 REMOVE EXISTING WATER VALVE AND PROVIDE NEW BRASS PIPE CONNECTION PER DETAIL 3 ON SHEET C-5.3.
- FIRE WATER:**
- 40 INSTALL 6" AWWA C900 FIRE WATER LINE. PER DETAIL 4 ON SHEET C-5.1.
  - 41 CONNECT TO EXISTING ON-SITE WATER LINE. VERIFY SIZE IN FIELD AND PROVIDE REDUCING FITTINGS AND COUPLINGS AS NEEDED. VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION/INSTALLATION OF FIRE WATER SYSTEM.
  - 42 NEW LOCATION OF EXISTING FIRE HYDRANT. INSTALL HYDRANT WITH THRUSTBLOCK PER DETAIL 1 ON SHEET C-5.3.
  - 43 NEW LOCATION OF EXISTING FIRE DEPARTMENT CONNECTION.
  - 44 NEW LOCATION OF EXISTING POST INDICATOR VALVE.
- OTHER:**
- 50 NEW LOCATION OF EXISTING LIGHT POLE PER ELECTRICAL DRAWINGS.
  - 51 LOWER VAULT /PULL BOXES TO STREET LEVEL AND REPLACE WITH TRAFFIC RATED COVER AS REQUIRED PER ELECTRICAL DRAWINGS.
  - 52 NEW LOCATION OF RELOCATED EXISTING LIGHT POLE. CONNECT TO EXISTING CIRCUIT. EXTEND CONDUIT AND WIRING AS REQUIRED PER ELECTRICAL DRAWINGS.
  - 53 NEW LIGHT POLE PER ELECTRICAL DRAWINGS.
  - 54 NEW UNDERGROUND ELECTRICAL LINE PER ELECTRICAL DRAWINGS.
  - 55 NEW LOCATION OF RELOCATED ELECTRICAL PULL BOX PER ELECTRICAL DRAWINGS.
  - 56 NEW BOLLARD WITH LIGHT PER ELECTRICAL AND LANDSCAPE DRAWINGS.

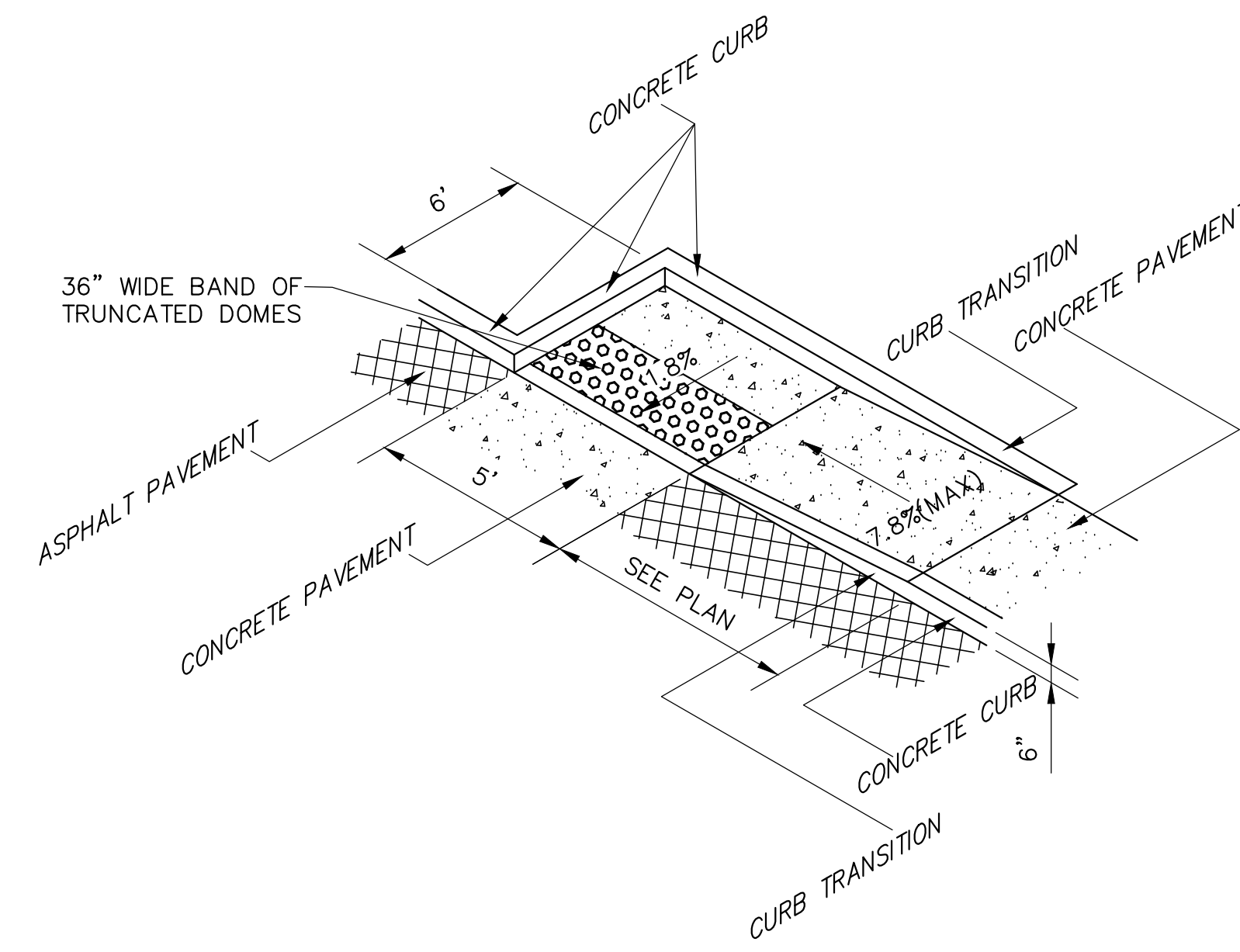
**SHEET NOTES:**

- FOR EXISTING UTILITIES, SEE "GROUND PENETRATION RADAR (GPR) PLAN" PROVIDED BY ULTRA ENGINEERING (10/29/20).

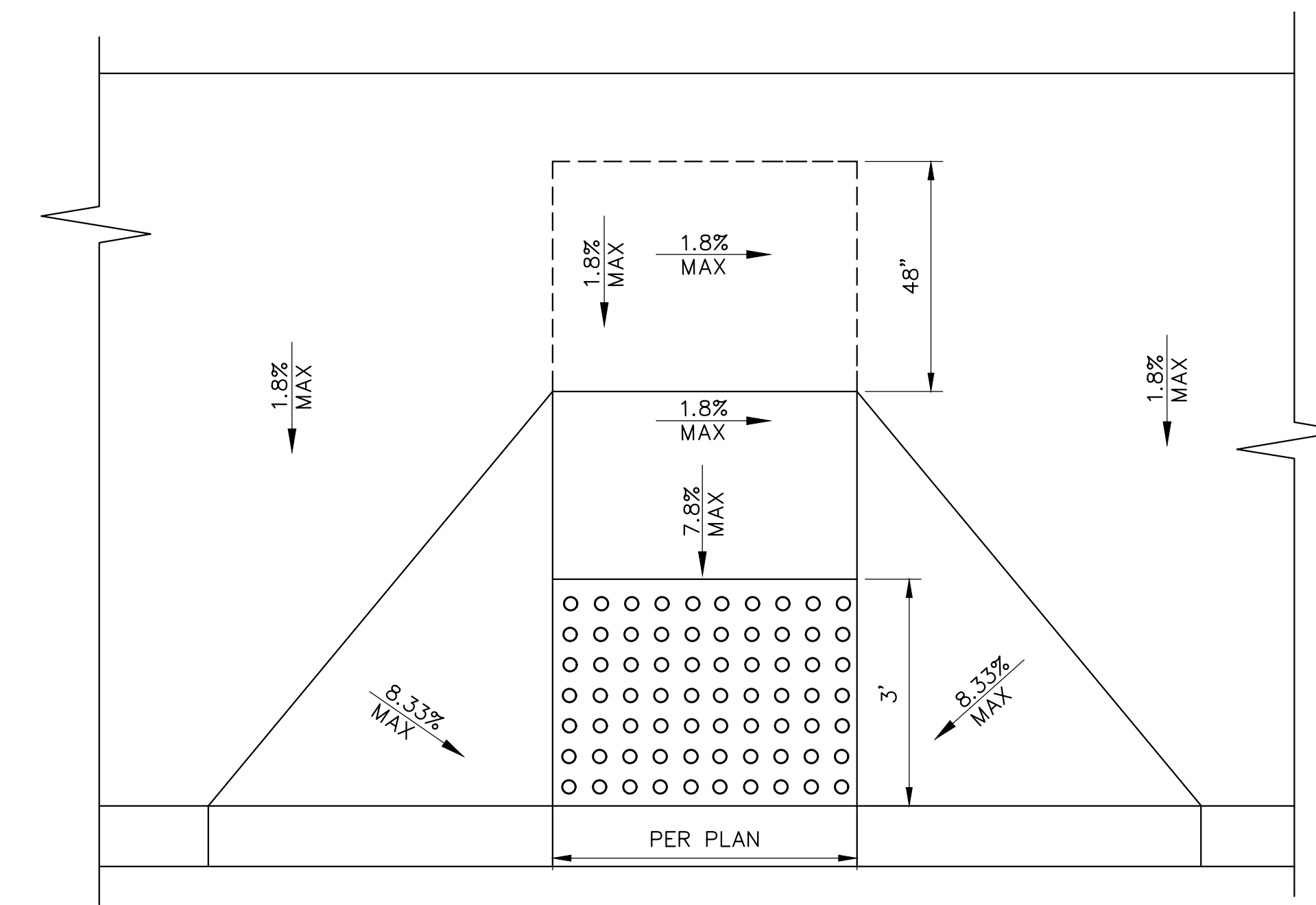




**CURB RAMP DETAIL TYPE - A**

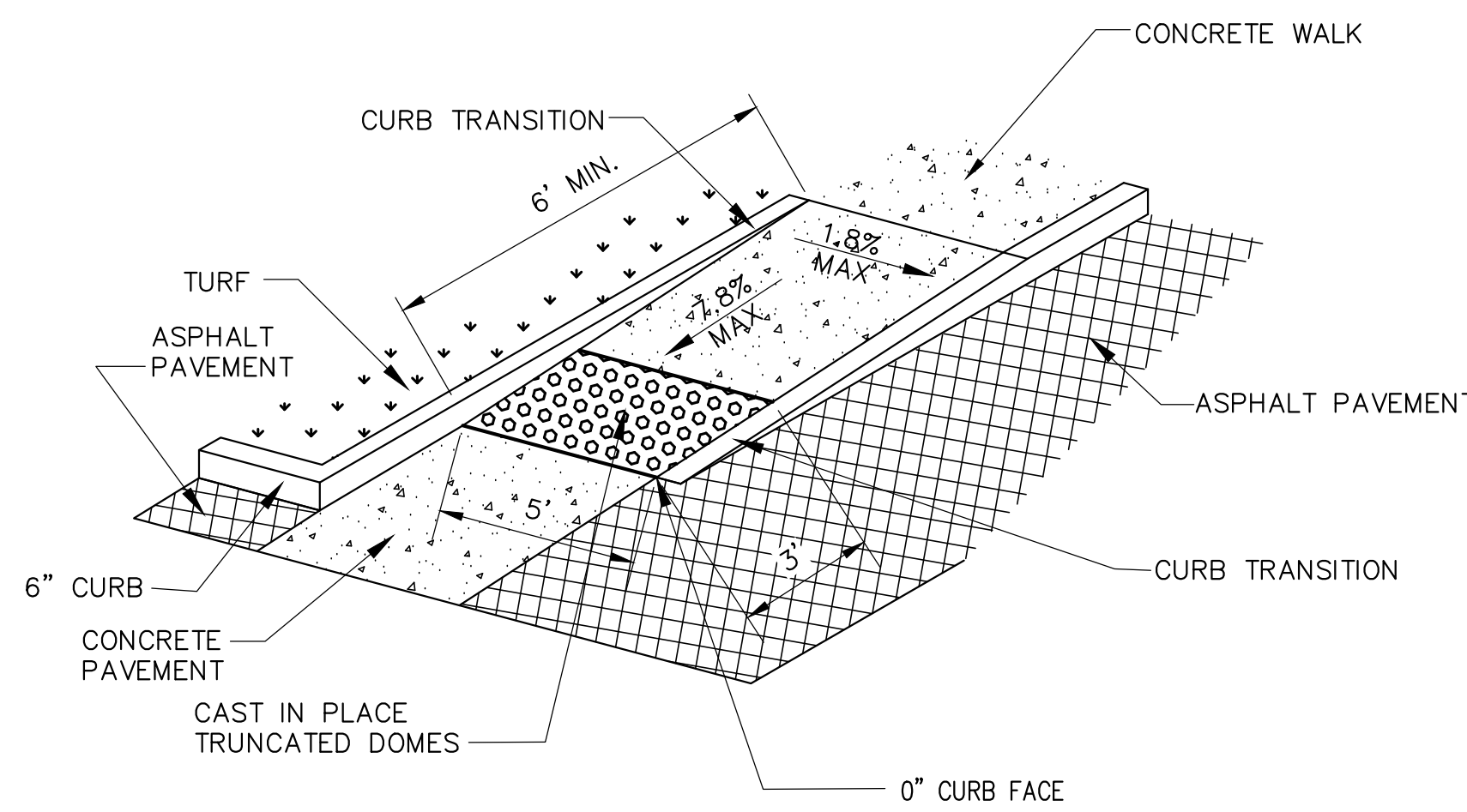


**CURB RAMP DETAIL TYPE - B**



**CURB RAMP DETAIL TYPE - C**

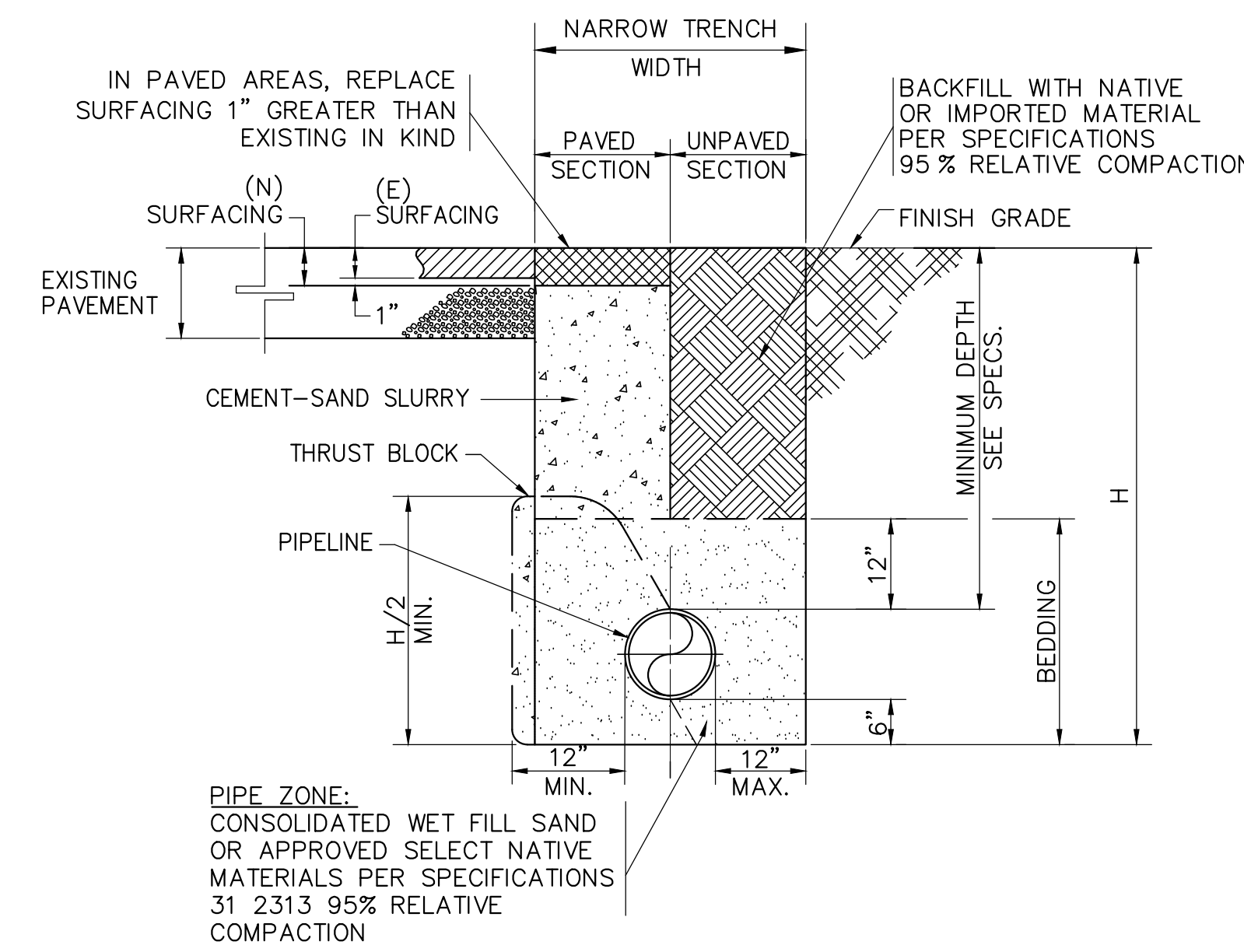
**1 CURB RAMP DETAILS**  
NOT TO SCALE



**CURB RAMP DETAIL TYPE - D**

**NOTES:**

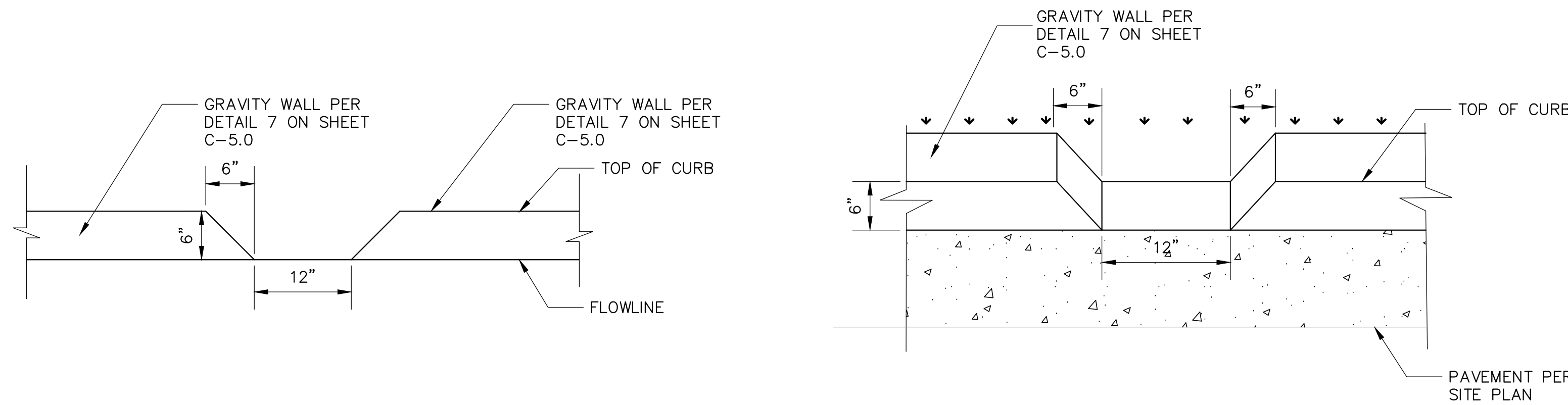
1. ALL RAMPS SHALL CONFORM TO CBC 2019 CHAPTER 11B STANDARDS



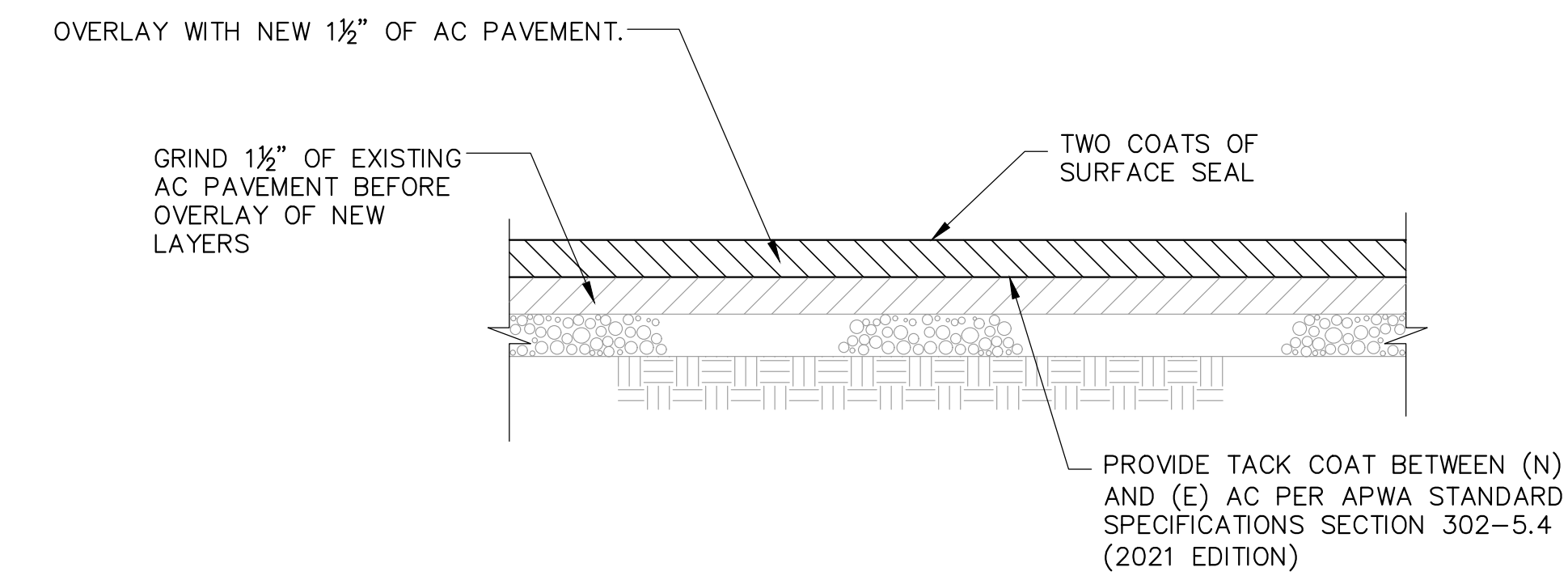
**NOTES:**

1. PAVEMENT FINISH SURFACE SHALL BE A SMOOTH CONTINUATION OF ADJOINING PAVED SURFACE.
2. ALL PATCHES TO PEDESTRIAN SURFACES SHALL COMPLY WITH CBC 11B-302.1 AND 11B-303.

**1 CURB RAMP DETAILS (CONT.)**  
NOT TO SCALE



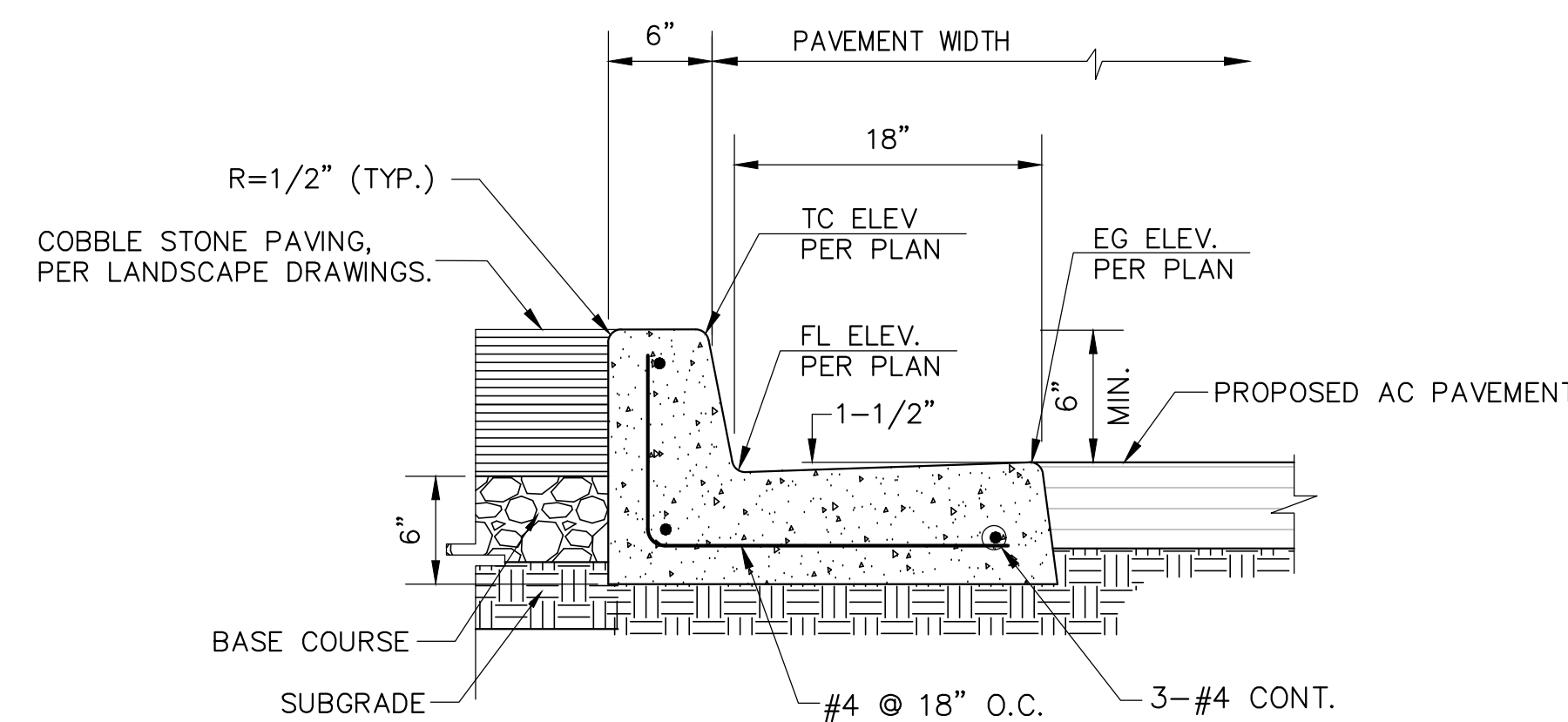
**4 TRENCH DETAIL**  
NOT TO SCALE



**NOTE:**

1. AFTER AC OVERLAY PAINT WITH SOLAR REFLECTIVE COATING PER ARCHITECTURAL DRAWINGS.
2. SEE SPEC 32.1236 FOR COATS OF SEAL SURFACE.
3. USE TACK COAT TYPE AR-4000 OR APPROVED EQUAL. APPLICATION RATE SHALL BE 0.05 GALLON / SQUARE YARD. SEE SECTION 302-5 OF THE STANDARD SPECIFICATIONS FOR TRACKING PROTECTION AND CLEAN-UP REQUIREMENTS.
4. CONTRACTOR SHALL EXERCISE CARE TO PREVENT THE TACK COAT FROM BEING APPLIED ON OTHER THAN THE AREA TO BE PAVED, AND SHALL BE RESPONSIBLE FOR REMOVING ANY TACK COAT FROM SURFACES NOT DESIGNATED TO BE PAVED AT NO COST TO THE DISTRICT.

**2 CURB SLOT DETAIL**  
NOT TO SCALE

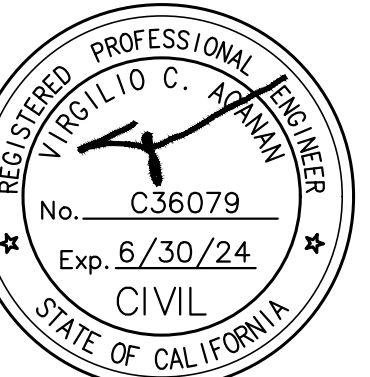
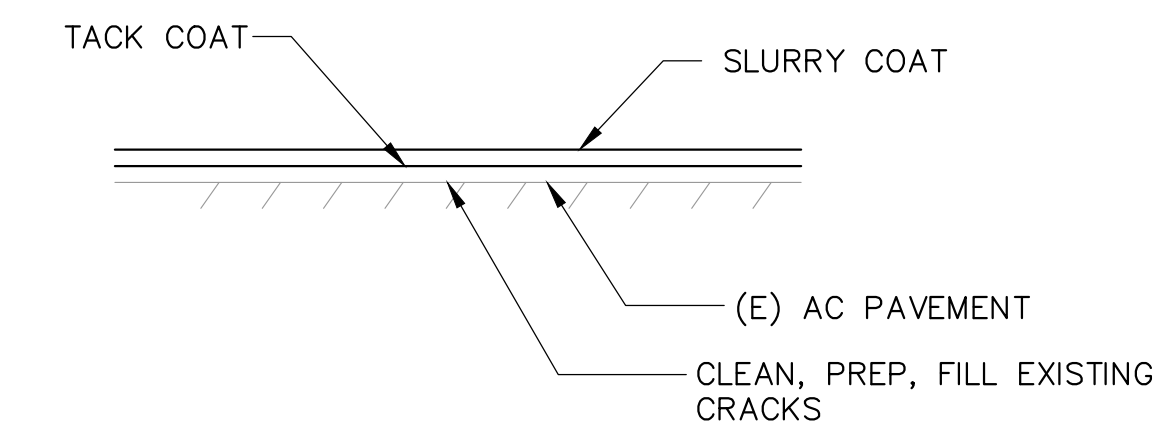


**NOTES:**

1. PROVIDE 1/4" EXPANSION JOINT WITH PREFORMED JOINT FILLER AT ALL ANGLE POINTS AND THE BEGINNING AND END OF ALL CURVES.
2. PROVIDE CONTRACTION JOINTS CONSISTING OF ONE INCH DEEP CUT SCORES AT 20' O.C. MAX.
3. CONCRETE, FC=4,000 PSI @ 28 DAYS.
4. REBAR, FY=60,000 PSI ASTM A615.
5. GUTTER WIDTH VARIES AT ADA ACCESSIBLE CURB RAMPS. SEE PLANS FOR GUTTER WIDTH AT CURB RAMPS.

**3 CONCRETE CURB AND 18" GUTTER DETAIL**  
NOT TO SCALE

**6 SLURRY COAT DETAIL**  
NOT TO SCALE



**REVISIONS:**

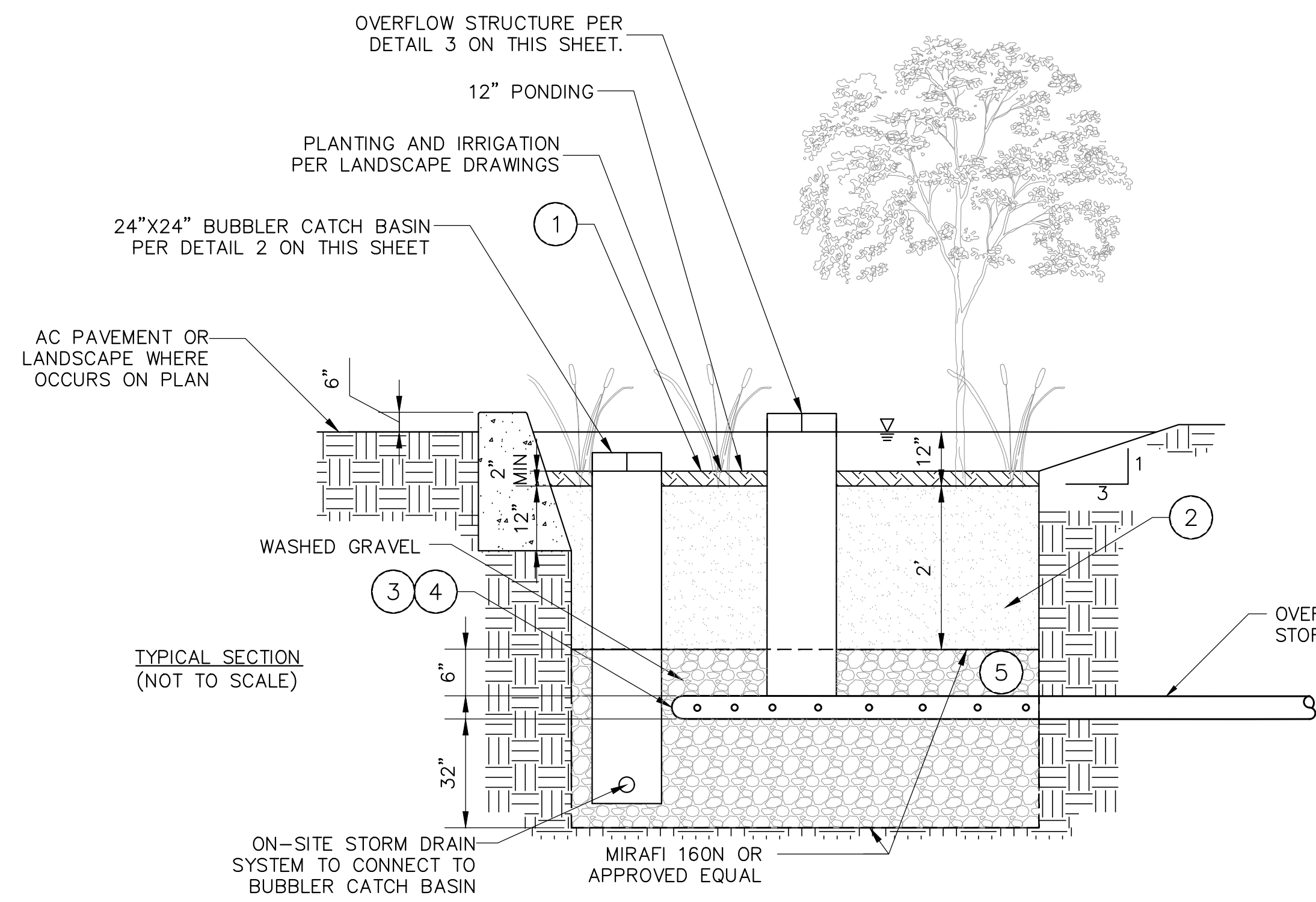
NO.	DESCRIPTION	DATE
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**DATE ISSUED:** 2018-11-19  
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**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** C-5.1  
**SHEET TITLE:**

**MISCELLANEOUS DETAILS**



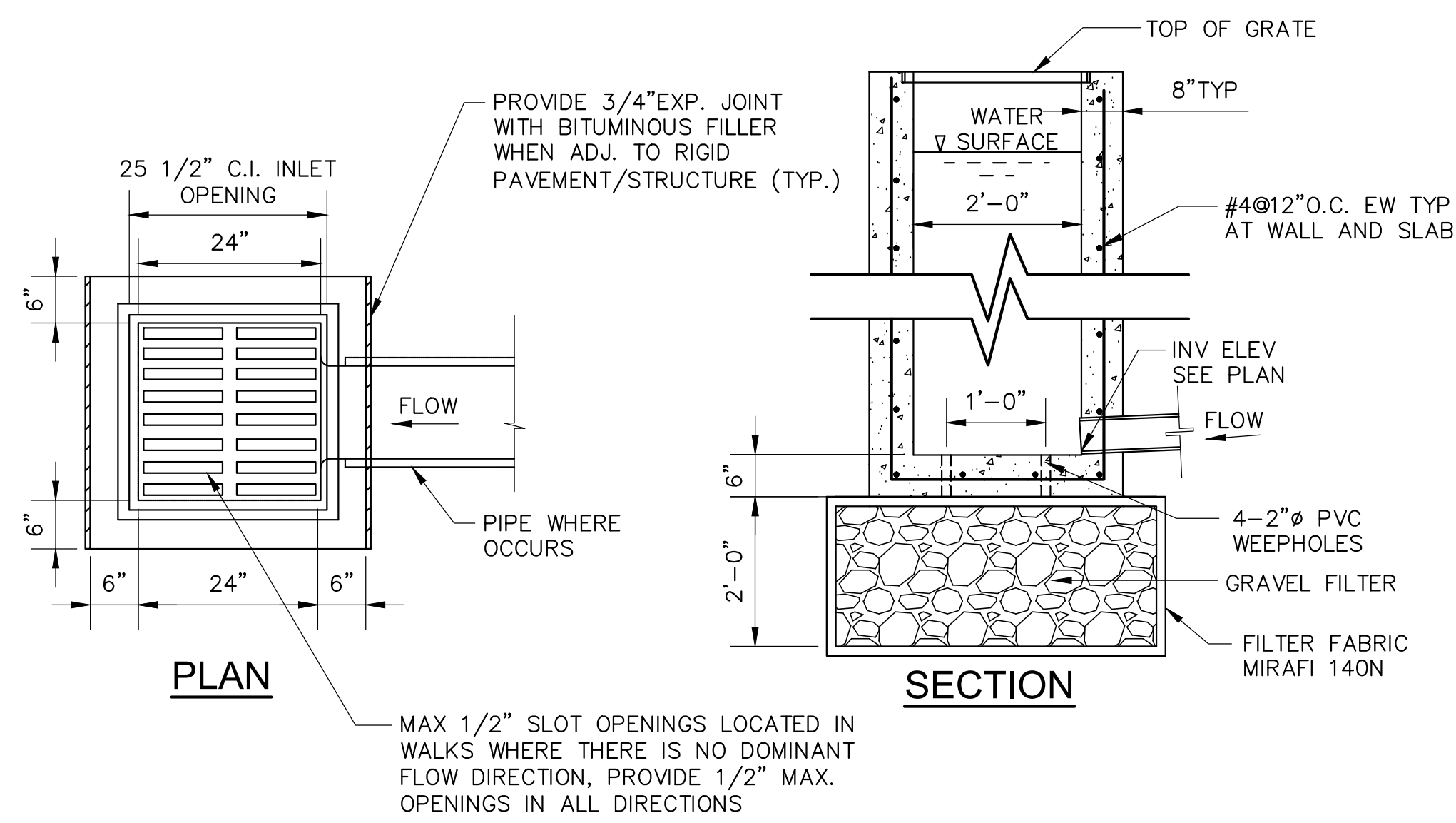




**GENERAL NOTES:**

- 3" LAYER OF NON-FLOATABLE WELL-AGED COMPOST OR FINE BARK.
- 2' ENGINEERED SOIL (ES) DEPTH. SEE ES SPECIFICATIONS.
- 6" PVC WITH A 0.5% MINIMUM SLOPE. SEE ALSO NOTE 4 AND 5.
- HOLE DIAMETER SHALL BE 0.5" WITH TWO HORIZONTAL ROWS AND 6" SPACING.
- THE FOLLOWING AGGREGATE SHALL BE USED TO PROVIDE A GRAVEL BLANKET AND BEDDING FOR THE UNDERDRAIN PIPE.
 

SIEVE SIZE	PERCENT PASSING
3/4 INCH	100
1/4 INCH	30-60
US NO. 80	3-12
US NO. 200	0-1
- SEE SHEETS 2 AND 3 OF THE ORANGE COUNTY PUBLIC WORKS BMP DESIGN BIORETENTION WITH UNDERDRAIN FOR ADDITIONAL CONSTRUCTION NOTES AND ENGINEERED SOIL NOTES.

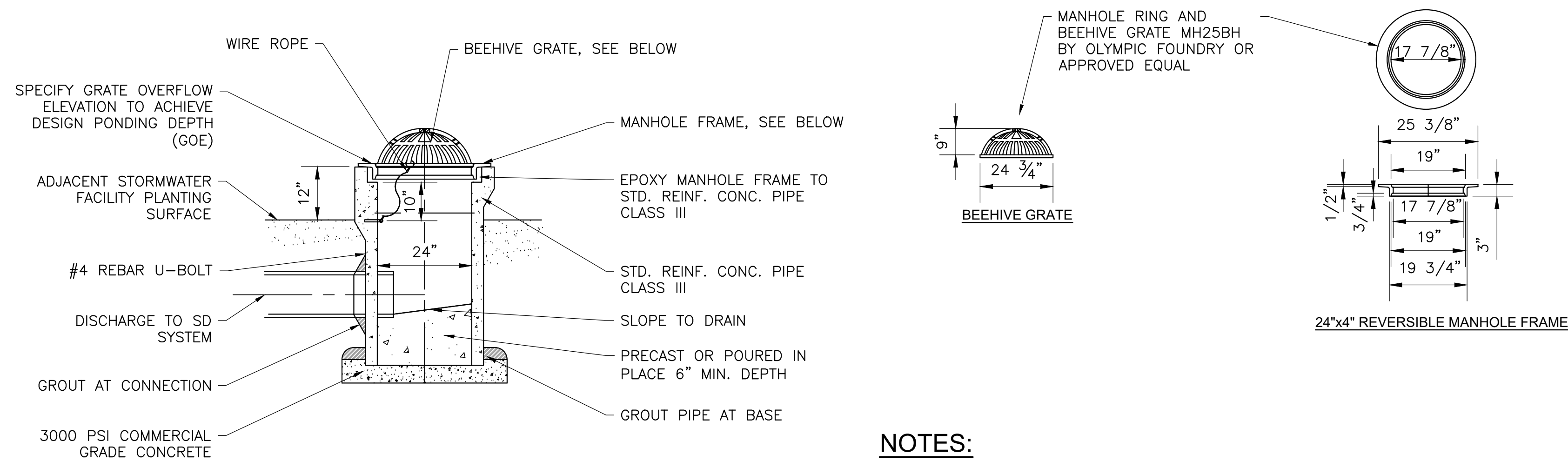


**NOTES:**

- USE 3/4" DIA. PIPE BAR SPACERS ASSEMBLED ON (2) 1/2" DIA. RODS WITH THREADS AND NUTS AT BOTH ENDS.
- ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION AND WELDING, AND BEFORE ASSEMBLING.
- FRAME AND GRATE SHALL BE SIMILAR TO ALHAMBRA FOUNDRY CO. LTD. SERIES MODEL NO. 1581, OR APPROVED EQUAL.
- GRATES SHALL BE VANDAL-RESISTANT CONSTRUCTION WITH 1/2" MAX OPENINGS.
- CONCRETE,  $f_c' = 2,500$  PSI @ 28 DAYS PER SSPWC.
- REBAR,  $F_y = 60,000$  PSI, ASTM A615
- GRATE MUST COMPLY WITH ADA REQUIREMENTS.
- PROVIDE 1/2" MAX GRID/OPENING IN GRATING IN THE DIRECTION OF TRAFFIC FLOW.

**1 BIORETENTION SYSTEM DETAIL**  
NOT TO SCALE

**2 BUBBLER CATCH BASIN DETAIL**  
NOT TO SCALE

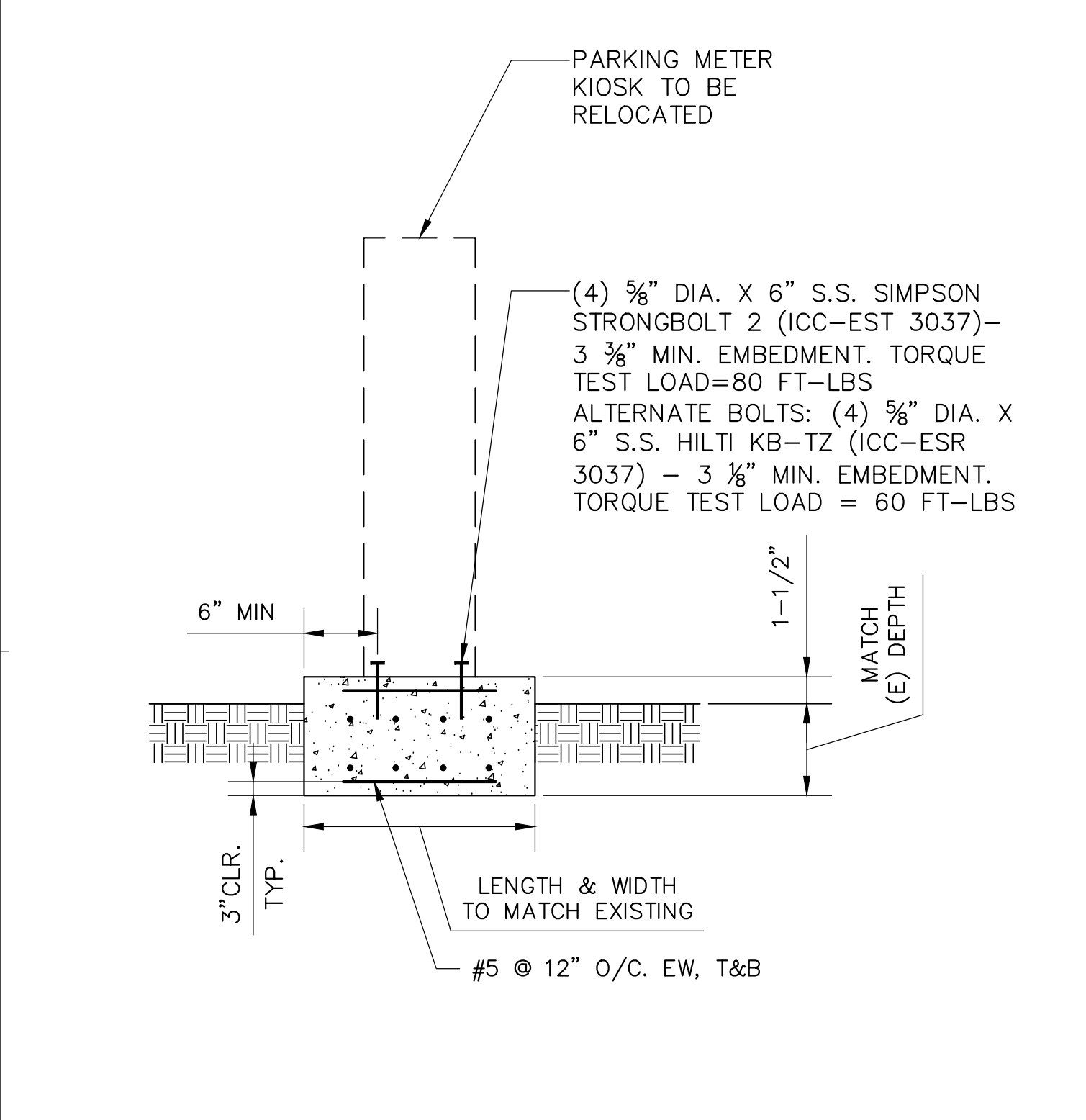
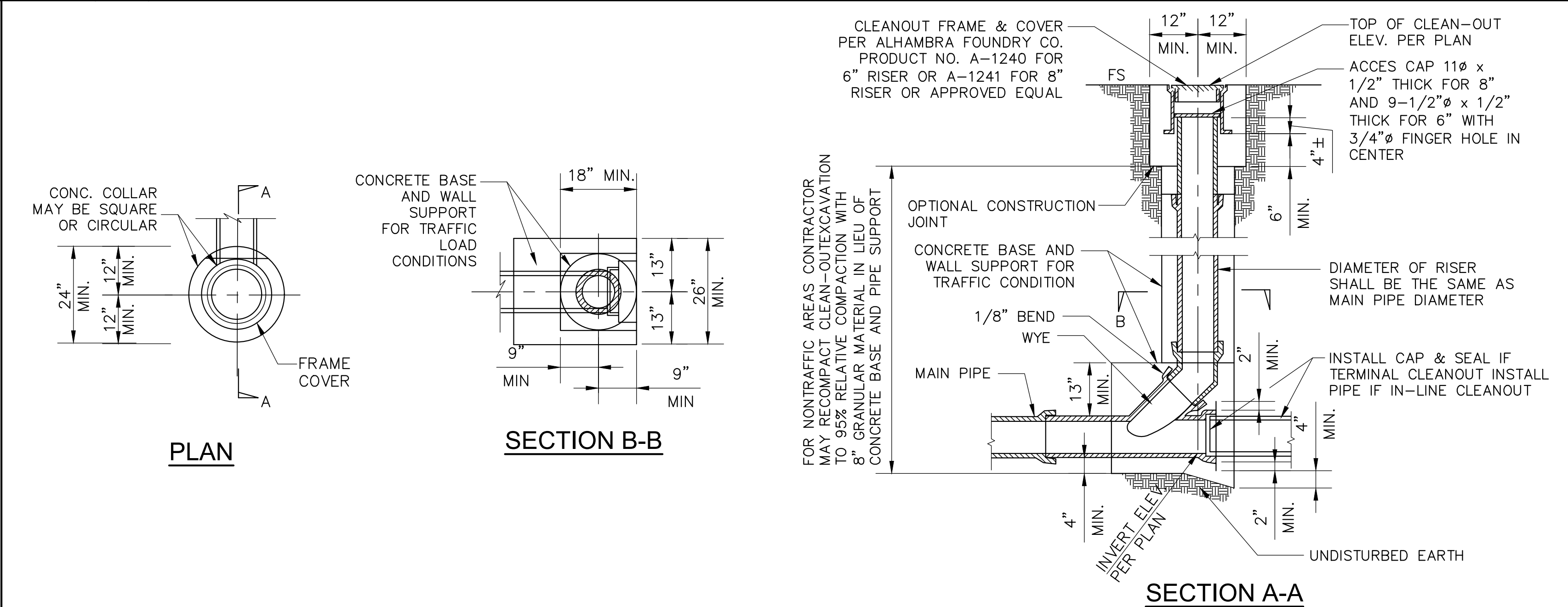


**NOTES:**

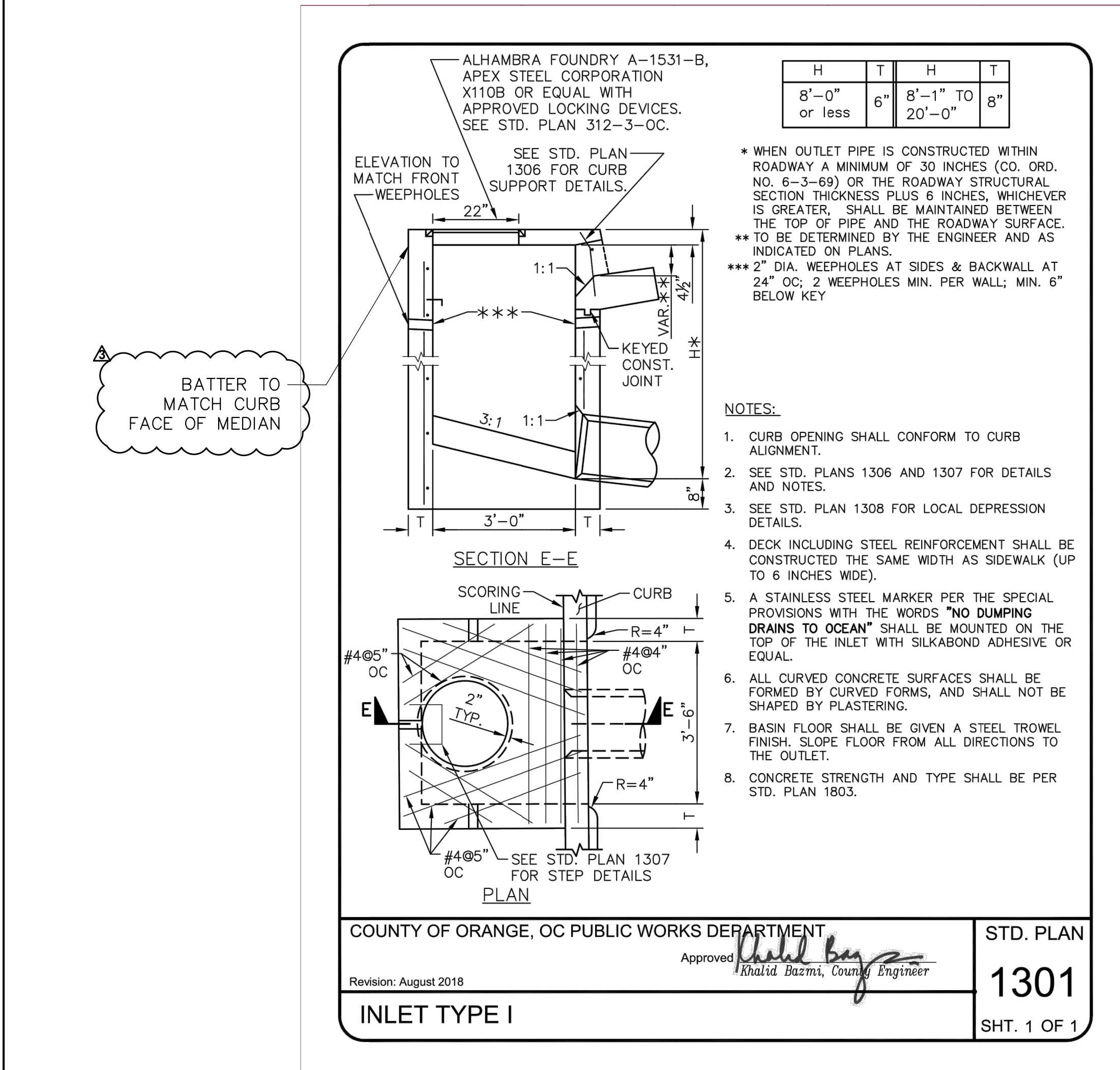
- DO NOT ADJUST OVERFLOW GRATE ELEVATION, CONSTRUCT AS SHOWN ON PLANS.

**3 OVERFLOW STRUCTURE MANHOLE WITH BEEHIVE GRATE DETAIL**  
NOT TO SCALE

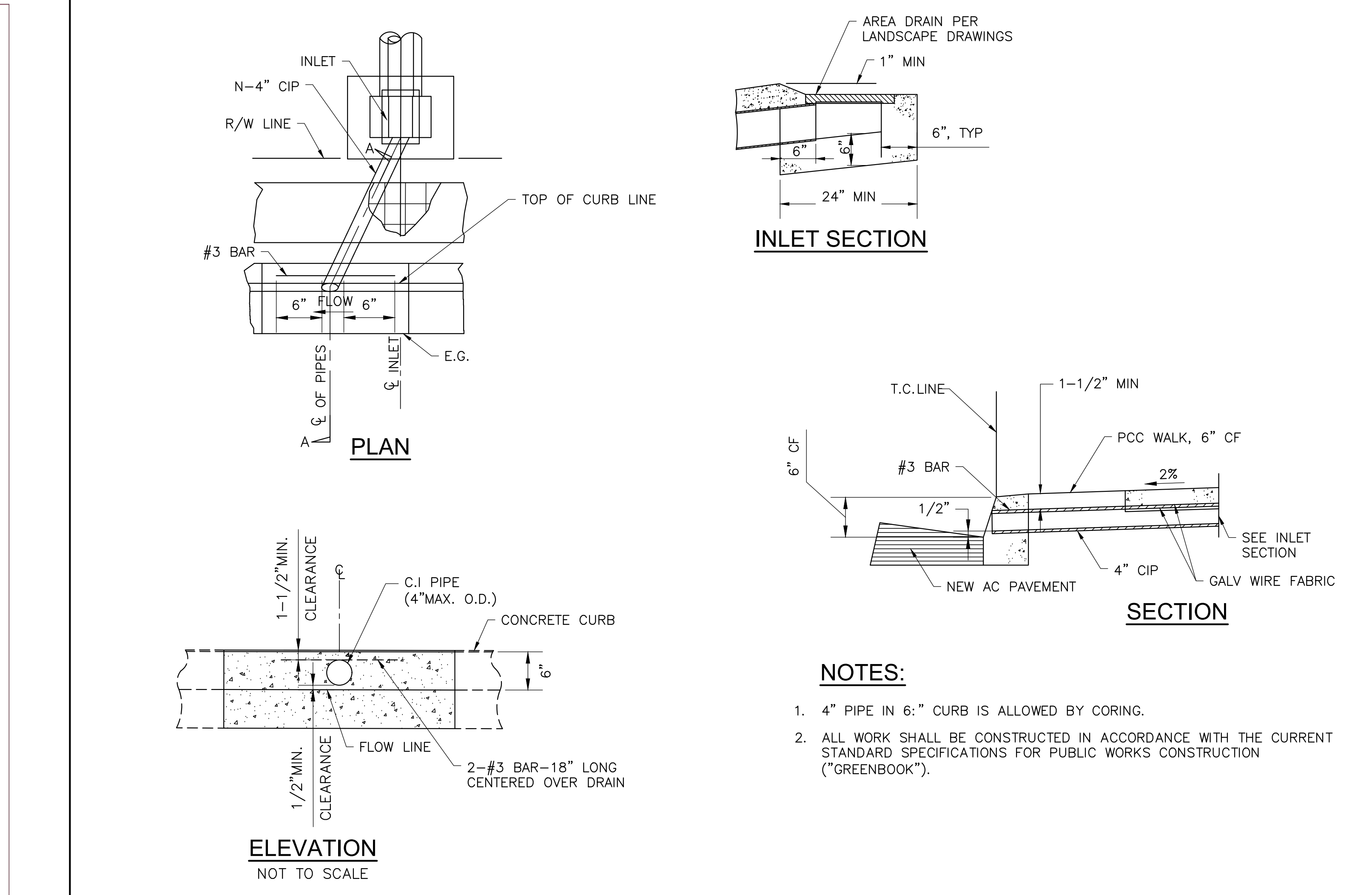
**4 CLEANOUT DETAIL**  
NOT TO SCALE



**5 PARKING KIOSK PAD DETAIL**  
NOT TO SCALE

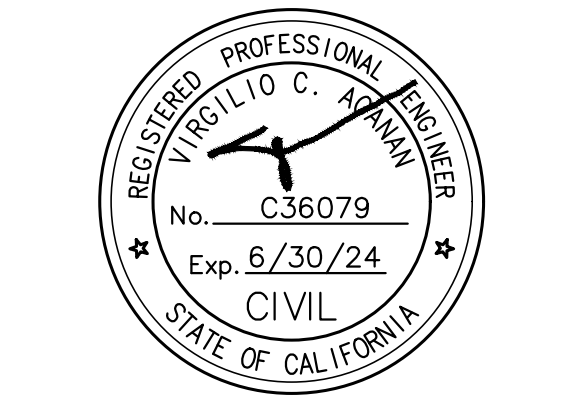


**6 SIDE-OPENING CATCH BASIN DETAILS**  
NOT TO SCALE



**7 CURB DRAIN DETAIL**  
NOT TO SCALE

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT - PHASE 1**  
8045 E. Chapman Avenue, Orange, CA 92668



**REVISIONS:**

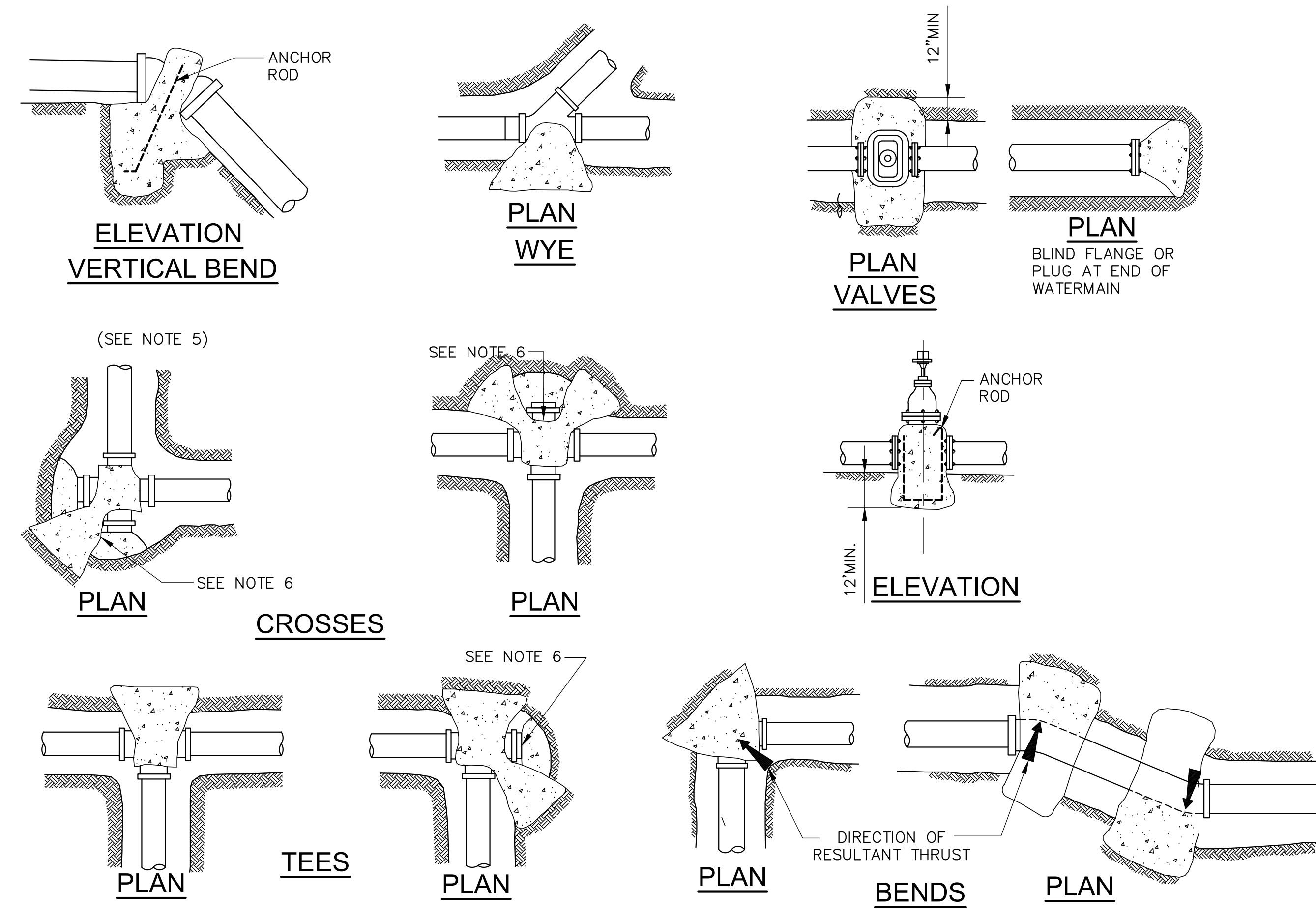
NO.	DESCRIPTION	DATE
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**DATE ISSUED:** 2018-11-19  
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**SCALE:** As indicated  
**SHEET NUMBER:** C-5.2  
**SHEET TITLE:**

**MISCELLANEOUS DETAILS**







**TABLE I**

MAIN SIZE	MINIMUM BEARING AREAS IN SQ.FT.			
	TEE	90° BEND	45° BEND	22 1/2° BEND
6"	4	4	4	3
8"	5	7	4	3
10"	9	12	6	4
12"	12	16	9	6

BASED ON 150 PSI W.W.R. PRESSURE & SOIL BEARING LOADS OF 2000 PSF THE RATIO OF WIDTH TO HEIGHT SHALL NOT EXCEED 1 1/2 TO 1

TEES, PLUGS, CAPS & HYDRANTS.

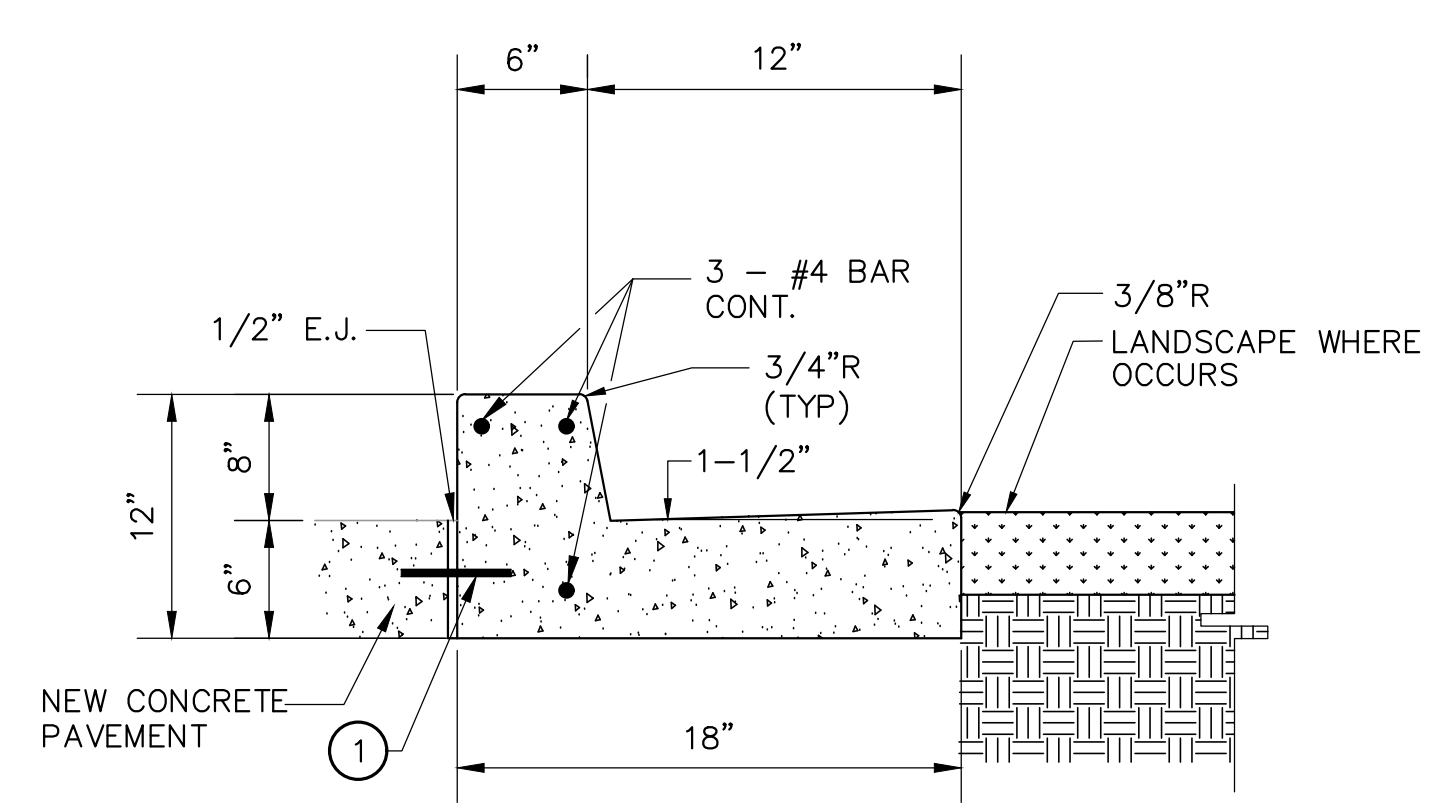
**TABLE II**

SOIL TYPE	MAX. ALLOWABLE SOIL BEARING VALUES	FACTORS FOR INCREASING AREAS IN TABLE I
		LOOSE SAND
SOFT SANDY CLAY	1000 PSF	2
ADOBE	1000 PSF	2
COMPACT FINE SAND	2000 PSF	1
COMPACT COARSE SAND	2000 PSF	1
MEDIUM STIFF CLAY	2000 PSF	1

\* THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE SAFE SOIL BEARING VALUES AND SIZE OF BEARING AREAS. BASED ON 2 FEET MINIMUM DEPTH OF COVER OVER THE PIPE.

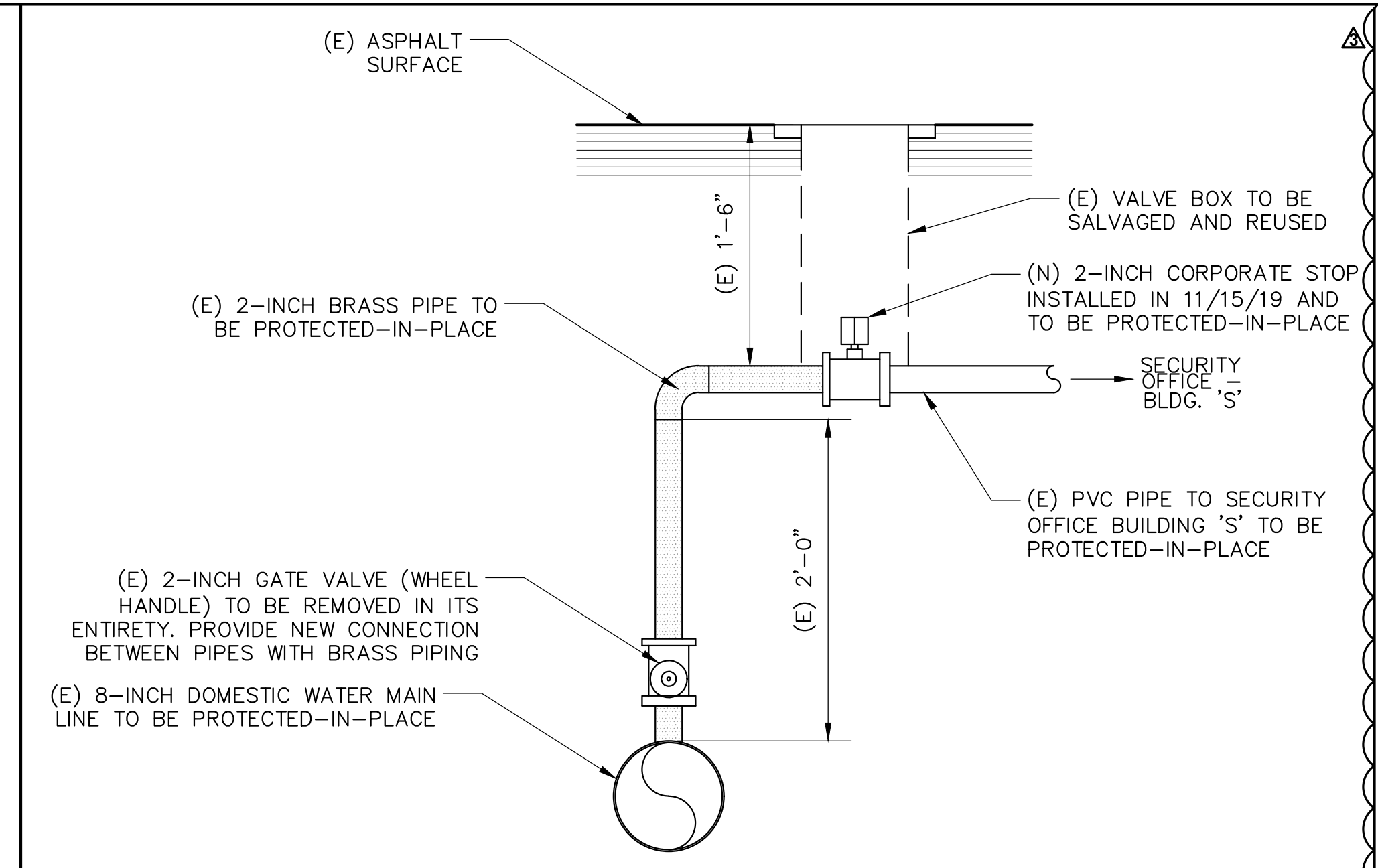
- NOTES:**
- ALL ANCHOR AND THRUST BLOCKS SHALL BEAR AGAINST UNDISTURBED SOIL.
  - MINIMUM ALLOWABLE WATER PRESSURE FOR DESIGN OF THRUST BLOCKS IS 150 PSI. BEARING AREA INCREASE IN PRESSURE.
  - ALL CONCRETE USED IN THRUST BLOCKS SHALL ATTAIN 2000 PSI STRENGTH.
  - ALL ANCHOR RODS SHALL BE REINFORCING STEEL AND A MINIMUM OF 1/2-INCH IN DIAMETER.
  - USE ANCHOR BLOCKS AT VERTICAL BENDS WHEN PIPE IS ABOVE OR BELOW GROUND. SIZE OF BLOCK AND ROD SHALL BE AS SHOWN ON THE PLANS OR AS DETERMINED BY THE ENGINEER IN THE FIELD.
  - USE 30 POUND FELT TO INSURE COLD JOINT.
  - CONCRETE SHALL NOT COME INTO DIRECT CONTACT WITH ASBESTOS CEMENT PIPE.
  - FOR PIPE 14" IN DIAMETER OR LARGER ENGINEER IS TO SUBMIT CALCULATIONS.

**1 THRUST BLOCK DETAIL**  
NOT TO SCALE



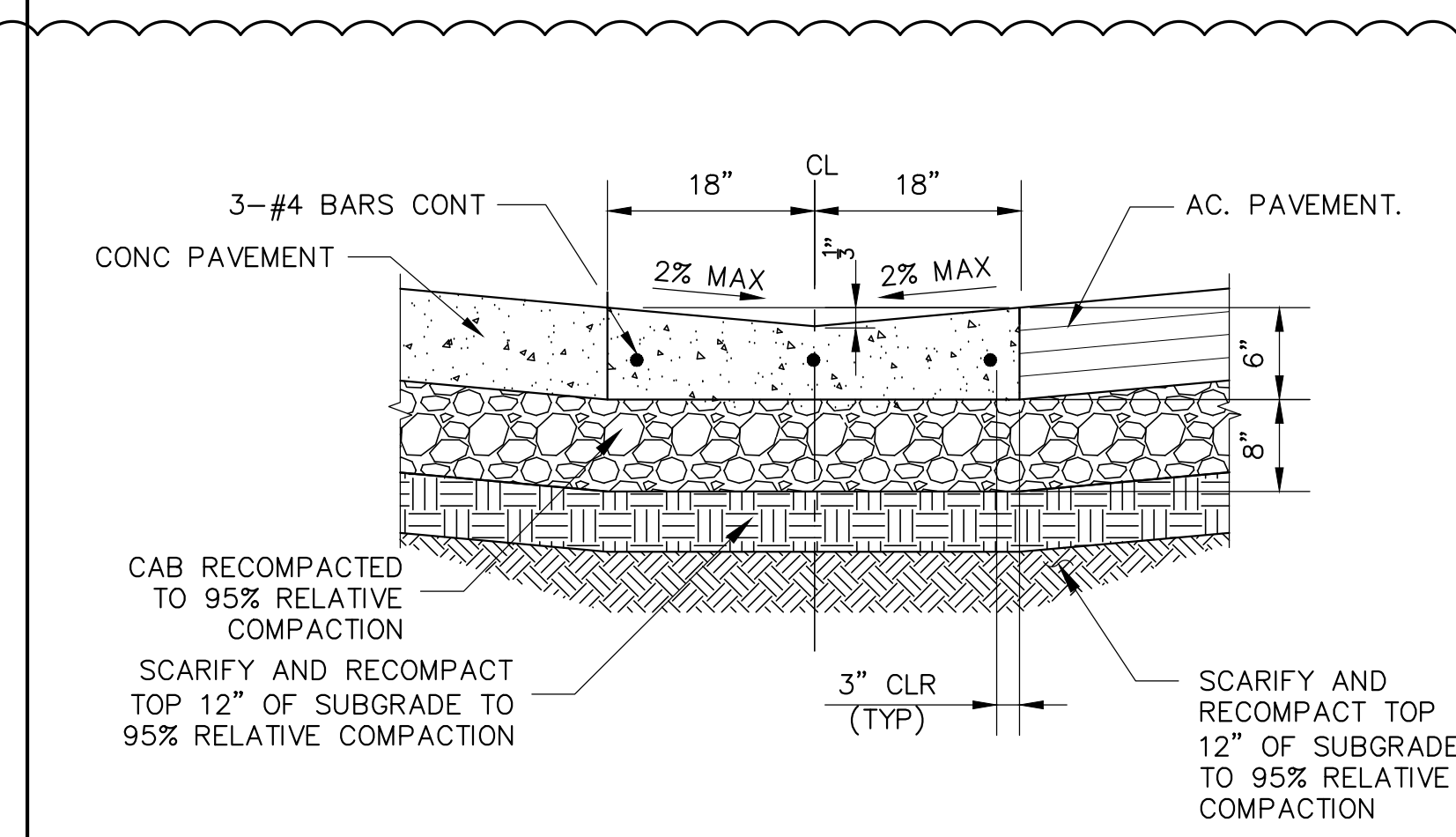
- NOTE:**
- 18" #4 REBAR W/ 'SPEED DOWEL' @ 36" OC, CENTER IN CONC. AT COLD JOINTS & E.J.'S

**2 CONCRETE CURB AND 12" GUTTER DETAIL**  
NOT TO SCALE



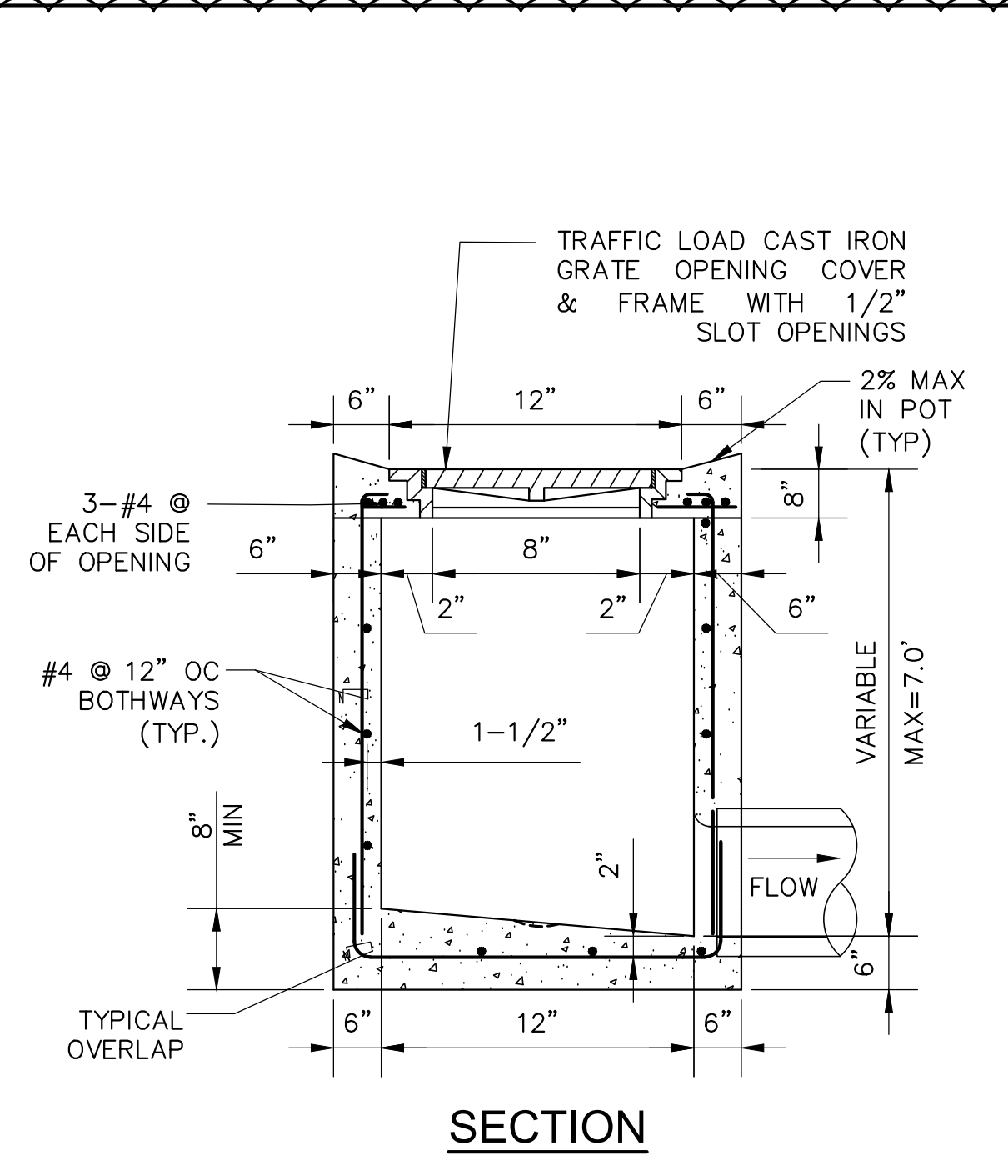
- NOTE:**
- PRIOR TO COMMENCING WORK, CONTRACTOR TO COORDINATE WITH DISTRICT PM TO REVIEW REMOVAL OF GATE VALVE AND INSTALLATION OF PIPE TO MAINTAIN WATER CONNECTION.

**3 WATER VALVE REMOVAL DETAIL**  
NOT TO SCALE



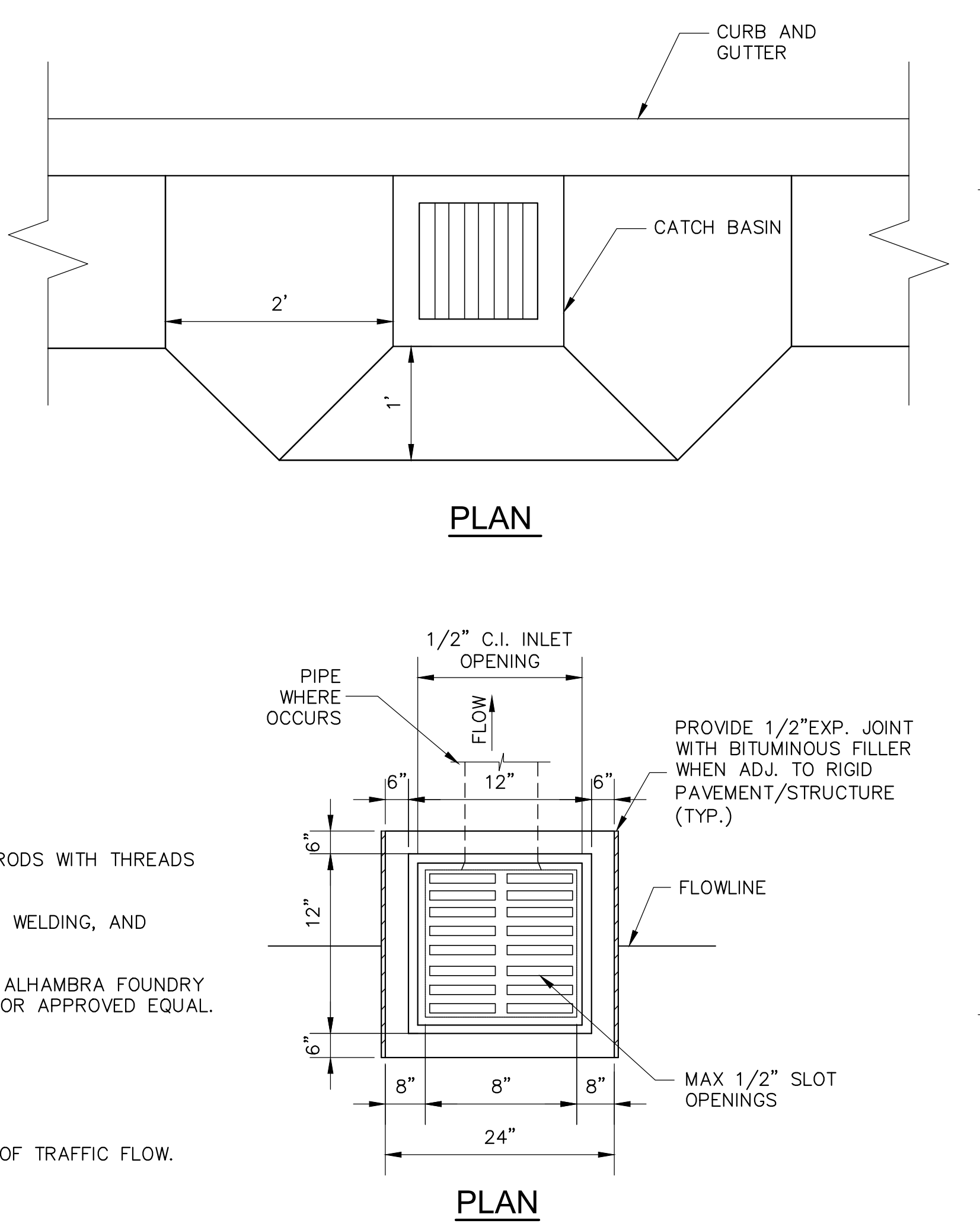
- NOTES:**
- CONCRETE, F'c=3000 PSI @ 28 DAYS PER SSPWC.
  - REBARS, Fy=60,000 PSI ASTM A615.

**4 CONCRETE V-GUTTER**  
NOT TO SCALE

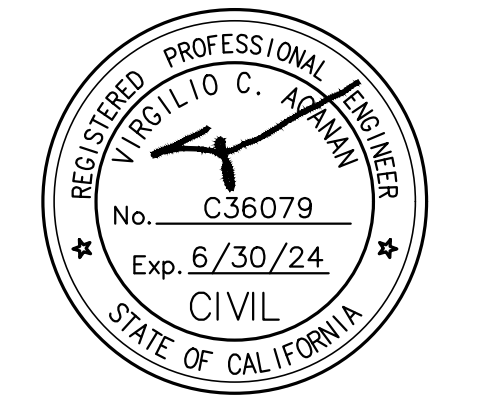


- NOTES:**
- USE 3/4" DIA. PIPE BAR SPACERS ASSEMBLED ON (2) 1/2" DIA. RODS WITH THREADS AND NUTS AT BOTH ENDS.
  - ALL METAL PARTS SHALL BE GALVANIZED AFTER FABRICATION AND WELDING, AND BEFORE ASSEMBLING.
  - FRAME AND GRATE SHALL BE SIMILAR TO EISEL ENTERPRISES INC. ALHAMBRA FOUNDRY CO. LTD. SERIES MODEL NO. A-2012 OR BROOKS PRODUCTS, INC. OR APPROVED EQUAL GRATES MUST COMPLY WITH ALL ADA REQUIREMENTS.
  - GRATES SHALL BE OF VANDAL-RESISTANT CONSTRUCTION.
  - GRATE MUST COMPLY WITH ADA REQUIREMENTS AND HEEL PROOF.
  - PROVIDE 1/2" MAX GRID/OPENINGS IN GRATING IN THE DIRECTION OF TRAFFIC FLOW.
  - REBAR, fy = 60,000 PSI, ASTM A615, GRADE 60.
  - CONCRETE, fc' = 3000 PSI @ 28 DAYS PER SSPWC.
  - THE CONTRACTOR SHALL BE ABLE TO INSTALL AN APPROVED EQUAL PREFABRICATED CATCH BASIN.

**5 12"x12" CATCH BASIN DETAIL**  
NOT TO SCALE



**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**  
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**REVISIONS:**

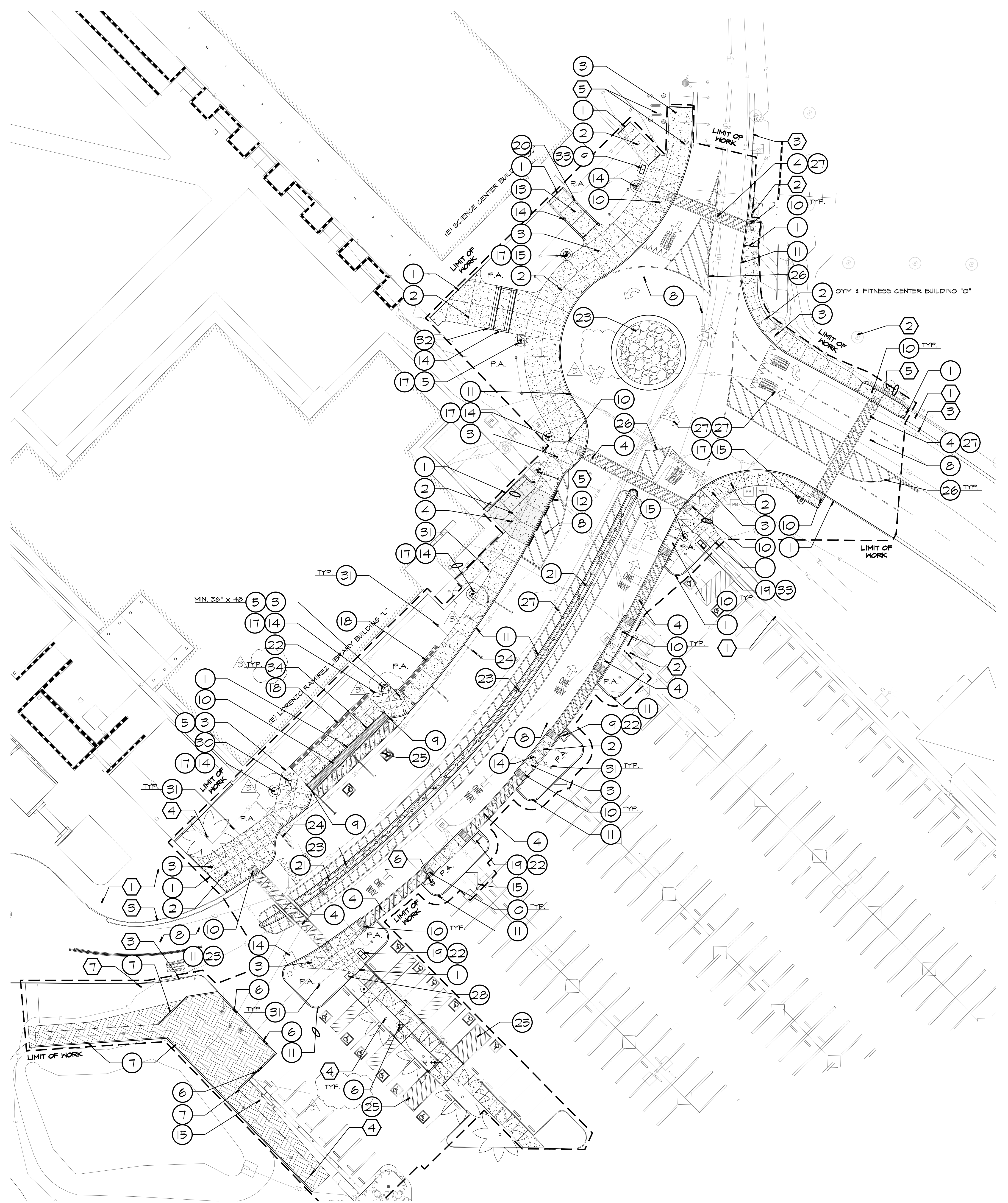
NO.	DESCRIPTION	DATE
3	ADDENDUM #3	1/17/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** C-5.3  
**SHEET TITLE:**

**MISCELLANEOUS DETAILS**







**CONSTRUCTION LEGEND**

CONSTRUCT:	DETAIL REFERENCE MODEL #
1	EXPANSION JOINT PER CIVIL DETAIL 5, SHEET C-5.0
2	SAWCUT CONTROL JOINT PER CIVIL DETAIL 5, SHEET C-5.0
3	CONCRETE PEDESTRIAN PAVING SEE FINISH SCHEDULE BELOW PER CIVIL DETAIL 4, SHEET C-5.0
4	CONCRETE VEHICULAR PAVING SEE FINISH SCHEDULE BELOW PER CIVIL DETAIL 4, SHEET C-5.0
5	POURED IN PLACE CONCRETE PAD FOR ADA COMPANION SPACE PER CIVIL DETAIL 4, SHEET C-5.0
6	CURB SLOT PER CIVIL DETAIL 2, SHEET C-5.1
7	GRAVITY CURB PER CIVIL DETAIL 7, SHEET C-5.0
8	AC PAVING / SLURRY SEAL PER CIVIL DETAIL 1, SHEET C-5.0
9	0" CURB PER CIVIL DETAIL 2, SHEET C-5.0
10	ADA CURB RAMP AND TRUNCATED DOME PER CIVIL DETAIL 8, SHEET C-5.0 AND SHEET C-5.01
11	CONCRETE CURB AND / OR GUTTER PER CIVIL DETAIL 2, SHEET C-5.0 AND DETAIL 3, SHEET C-5.1
12	ROLLED CONCRETE CURB & DRIVE APRON PER CIVIL DETAIL 6, SHEET C-5.0
13	CONCRETE RAMP Detail 1, Sheet L-2.02
14	LIGHT FIXTURE PER ELECTRICAL SHEET E-5.01
15	RELOCATED LIGHT FIXTURE PER ELECTRICAL SHEET E-5.01
16	12" CONCRETE BOLLARD WITH LIGHT BY ENVIRONMENTAL LIGHTING FOR ARCHITECTURE, INC. MODEL BOL5020F-90. REFER TO ELECTRICAL PLANS. Detail 4, Sheet L-2.01 AND ELECTRICAL SHEET E-5.01
17	CONCRETE COLLAR AT LIGHTS Detail 1, Sheet L-2.01
18	POURED IN PLACE CONCRETE WALL Detail 2, Sheet L-2.01
19	POURED IN PLACE CONCRETE PAD SEE CIVIL DETAIL 4, SHEET C-5.0
20	HANDRAIL W/ CHEEKWALL AT RAMP Detail 1, Sheet L-2.02
21	CABLE RAIL FENCING Detail 3, Sheet L-2.01
22	45 GALLON SINGLE-SLIM SIDELOAD TRASH RECEPTACLE Detail 6, Sheet L-2.01
23	COBBLE "RUBBLE STONE" PAVING Detail 5, Sheet L-2.01
24	PASSENGER DROP-OFF AND LOADING ZONE PER ARCH SHEET A-0.40
25	ADA PARKING STALLS PER ARCH SHEET A-0.60
26	RAISED TRAFFIC DOTS PER ARCH SHEET A-0.40
27	TRAFFIC LANE MARKINGS PER ARCH SHEET A-0.41
28	PARKING KIOSK, PAD AND SIGNAGE PER ARCH SHEET A-0.60
29	NOT USED NOT USED
30	RELOCATED STUDENT BOOK DROP Detail 7, Sheet L-2.01
31	6" BLACK STEEL NDS ATRIUM DRAIN - USE FLAT GRATE IN TURF AREAS PER CIVIL SHEET C-4.1
32	STAIRS WITH HANDRAILS Detail 2, Sheet L-2.02
33	45 GALLON DOUBLE SIDELOAD TRASH RECEPTACLE Detail 6, Sheet L-2.01
34	12" CONCRETE BOLLARD WITHOUT LIGHT BY ENVIRONMENTAL LIGHTING FOR ARCHITECTURE, INC. MODEL BOL5020F-90. REFER TO ELECTRICAL PLANS. Detail 3, Sheet L-2.02 AND ELECTRICAL SHEET E-5.01

**EXISTING CONDITIONS**

DESCRIPTION	COMMENT
1	EXISTING SIDEWALK OR CONCRETE PAVING PROTECT IN PLACE
2	EXISTING LIGHT POLE OR BOLLARD PROTECT IN PLACE OR RELOCATE PER ELECTRICAL ENGINEERS PLANS
3	EXISTING CURB AND / OR GUTTER PROTECT IN PLACE
4	EXISTING TREE PROTECT IN PLACE
5	EXISTING UTILITY PROTECT IN PLACE OR RELOCATE PER CIVIL'S PLAN
6	EXISTING FIRE HYDRANT RELOCATE PER CIVIL'S PLAN
7	EXISTING VEHICULAR GATE PROTECT IN PLACE
8	EXISTING TRASH / RECYCLING RECEPTACLE (NOT SHOWN ON PLANS) REMOVE AND DISPOSE OF PER CIVIL'S PLANS

**FINISH SCHEDULE**

SYMBOL:	TYPE:	DESCRIPTION:
A	COLOR: NATURAL GREY FINISH: MEDIUM BROOM	

CONTRACTOR SHALL PROVIDE 6'X6' MOCKUP PANEL OF CONCRETE COLOR AND FINISH WITH JOINTS PER PLANS FOR REVIEW AND APPROVAL BY DISTRICT PRIOR TO CONSTRUCTION.

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**  
 8045 E. Chapman Avenue, Orange, CA 92668

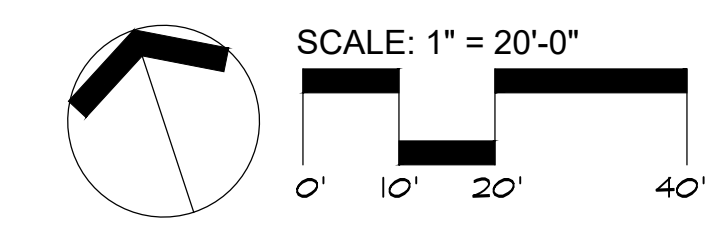


**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM 3	01/17/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** **L-1.01**  
**SHEET TITLE:**

**LANDSCAPE CONSTRUCTION PLAN**

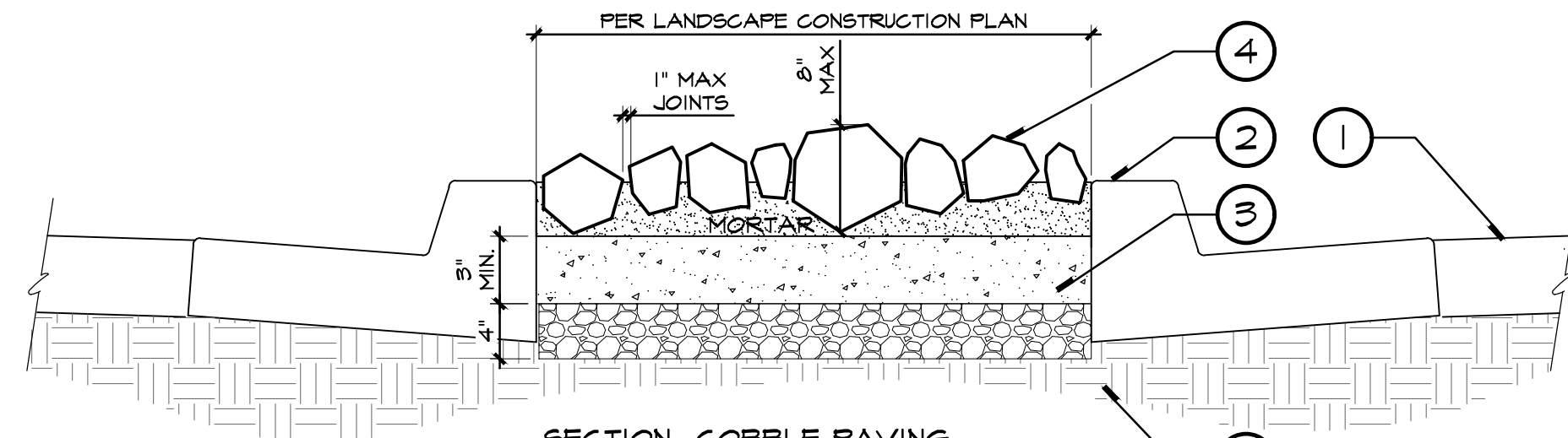


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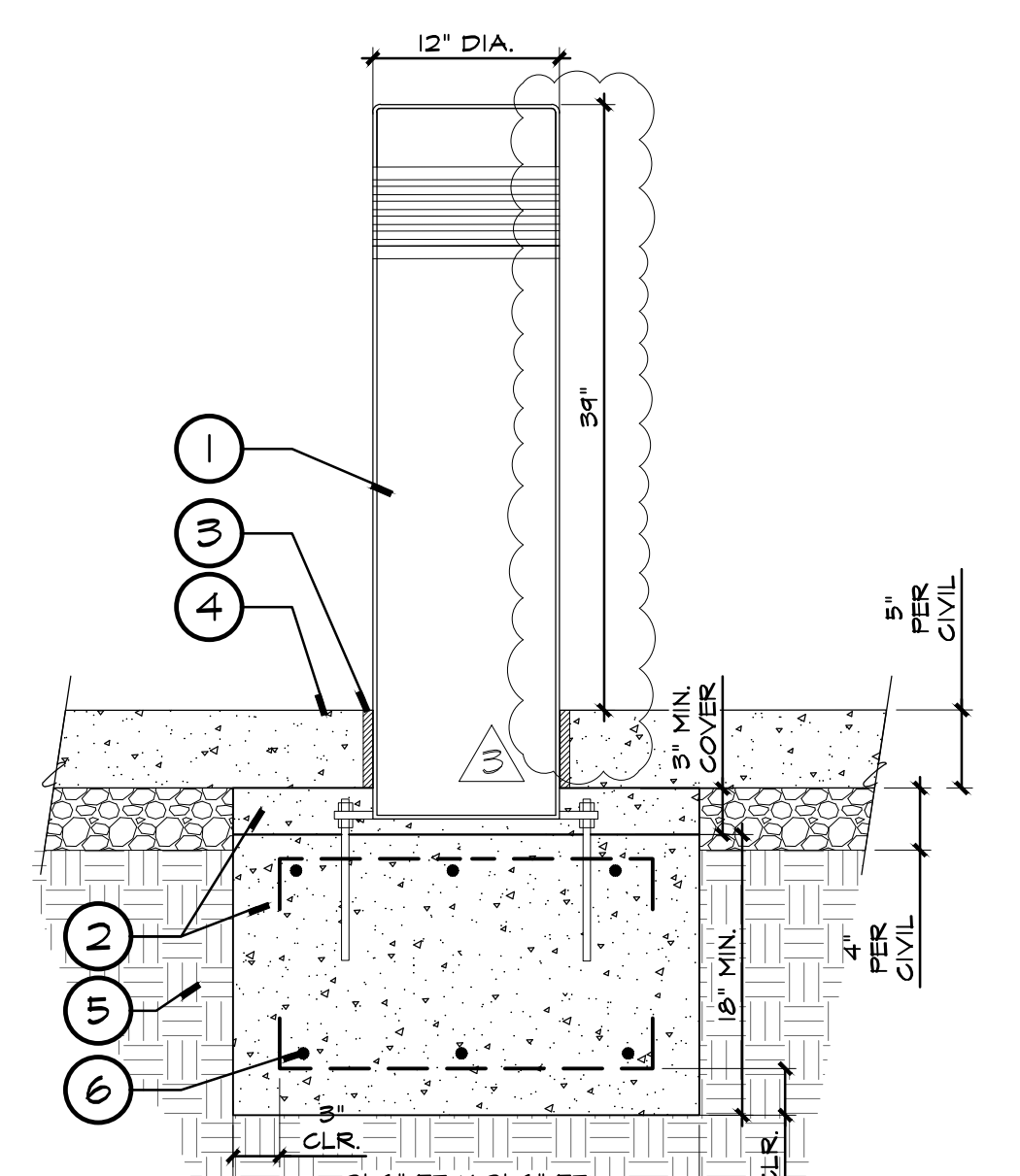
**RJM DESIGN GROUP**  
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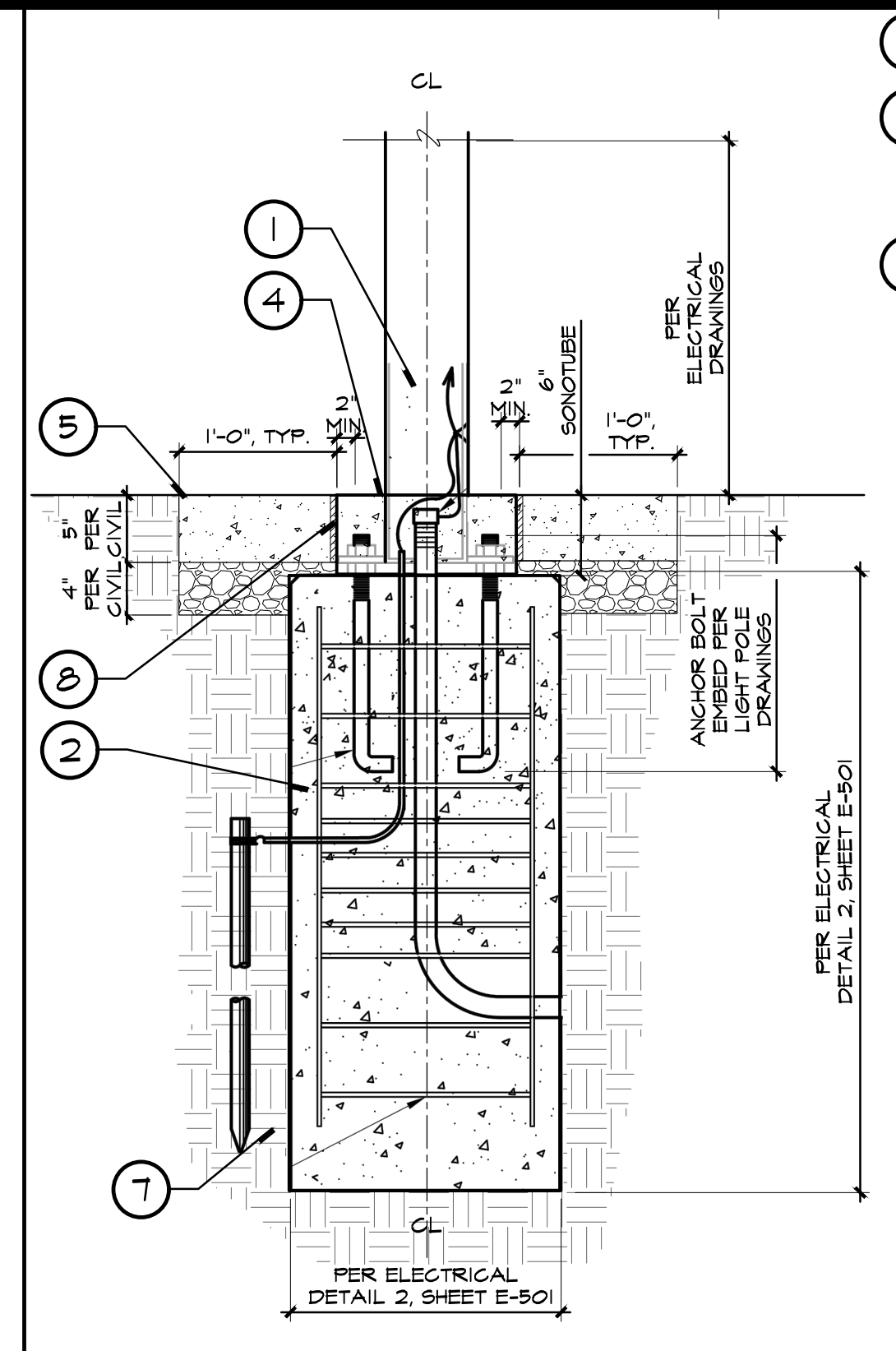




- LEGEND:**
- ADJACENT ASPHALT PAVING PER CIVIL ENGINEERS PLANS.
  - ADJACENT CONCRETE CURB AND GUTTER PER CIVIL ENGINEERS PLANS.
  - 3" MIN. THICK, COLORED CONCRETE PAD ON PREPARED AGGREGATE SUBBASE PER GEOTECH REPORT, TO RECEIVE MORTAR AND COBBLE. CONCRETE COLOR TO BE RUSTIC BROWN #6058, AVAILABLE FROM DAVIS COLORS, (844)341-4780.
  - 4"-8" SIZED RUBBLE STONE, COLOR: 'BAJA CRESTA RED', AVAILABLE FROM: **DECORATIVE STONE SOLUTIONS**, CONTACT: RANDY JURGENSEN (800) 699-8187. FINAL COLOR SELECTION TO BE MADE BY THE DISTRICT. COBBLE TO BE IMBEDDED 50% MIN. INTO 4" THICK MORTAR BASE, SET ON COLORED CONCRETE PAD. MORTAR JOINTS BETWEEN COBBLE SHALL BE 1" MAX IN SIZE.
- NOTES:**
- CONTRACTOR TO PROVIDE 6'-0" x 6'-0" SAMPLE MOCK-UP OF MORTARED COBBLE STONE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT AND DISTRICT PRIOR TO INSTALLATION.
  - CONTRACTOR SHALL RAKE & CLEAN JOINTS BETWEEN COBBLE TO REMOVE ANY EXCESS GROUT. VISIBLE GROUT EXCESS NOT PERMITTED.
- \* WHERE OCCURS, PROVIDE 4" MINIMUM CLEAR, BOTH SIDES OF CENTER OF CABLE FENCE ALIGNMENT FOR APPLICATION OF MORTAR BASE ONLY WITHOUT COBBLE, TO ALLOW 2" MINIMUM CLEARANCE FROM TOP OF MORTAR BASE TO FIRST CABLE RAIL.
- COMPACTED MOISTURE-CONDITIONED SUBGRADE PER GEOTECHNICAL REPORT.



- LEGEND:**
- CONCRETE BOLLARD WITHOUT LIGHT, MODEL #B05020F-40, BY ENVIRONMENTAL LIGHTING FOR ARCHITECTURE, INC. E.L.A. INSTALL WITHOUT OPTIONAL BASE PLATE. INSTALL PER MANUFACTURERS' SPECIFICATIONS.
  - CONCRETE BOLLARD FOOTING AND REINFORCEMENT PER ELECTRICAL ENGINEERS PLANS AND DETAIL 5, SHEET E-501. CONSTRUCT FOOTING BELOW PAVING SECTION. PROVIDE 3" MIN. GROUT COVER AROUND ALL STEEL. CONTRACTOR TO NOT INCLUDE ELECTRICAL EQUIPMENT AS SPECIFIED IN DETAIL 5, SHEET E-501.
  - APPLY 1/2" BEAD OF GUN GRADE POLYMER SEALANT, **DYNATREED** BY: **PECORA** OR APPROVED EQUAL, TO BASE OF CONCRETE BOLLARD AND ADJACENT CONCRETE PAVING. COVER SURFACE OF JET SEALANT WITH SILICA SAND. SEALANT COLOR TO MATCH ADJACENT CONCRETE.
  - CONCRETE PAVING PER LANDSCAPE CONSTRUCTION PLANS AND CIVIL ENGINEERS DETAILS.
  - COMPACTED MOISTURE-CONDITIONED SUBGRADE PER GEOTECHNICAL REPORT.
  - #5 REBAR @ 12" O.C. EACH WAY, TOP AND BOTTOM.
- NOTES:**
- PROVIDE BOLLARD SUBMITTAL FOR REVIEW AND APPROVAL BY DISTRICT PRIOR TO CONSTRUCTION.



- LEGEND:**
- PEDESTRIAN LIGHT POLE AND FIXTURE PER ELECTRICAL PLANS. LOCATE FIXTURES AND CONCRETE COLLARS PER LANDSCAPE CONSTRUCTION PLANS.
  - LIGHT POLE FOOTING AND REINFORCEMENT PER ELECTRICAL DETAIL 2, SHEET E-501. CONSTRUCT FOOTING BELOW SONOTUBE SECTION.
  - LIGHT POLE ANCHOR BOLTS WITH BOLT COVER. PROVIDE 1" MIN. CONCRETE COVER AROUND ALL STEEL BASE PLATES.
  - 6" HIGH CONCRETE SONOTUBE 'FINISH FREE' BY SONOTUBE. SONOTUBE DIAMETER SHALL PROVIDE MINIMUM 2" CLR. CONCRETE COVER TO ANCHOR BOLTS, EACH SIDE.
  - CONCRETE PAVING AND AGGREGATE BASE PER CIVIL ENGINEERS DETAILS. LOCATE PAVING COLLAR PER LANDSCAPE CONSTRUCTION PLANS, CENTER LIGHT FIXTURE ON PAD.
  - CONCRETE CONTROL SAWCUT JOINT PER CIVIL ENGINEERS DETAILS.
  - COMPACTED MOISTURE-CONDITIONED SUBGRADE PER GEOTECHNICAL REPORT.
  - CONTINUOUS EXPANSION JOINT AROUND SONOTUBE AND FINISH GRADE PER CIVIL ENGINEERS PLANS.
- NOTES:**
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY DISTRICT PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE 6' x 6' MOCK UP OF CONCRETE COLLAR WITH SONOTUBE PRIOR TO CONSTRUCTION.

**5 COBBLE PAVING**

**Single-Slim Sideload**

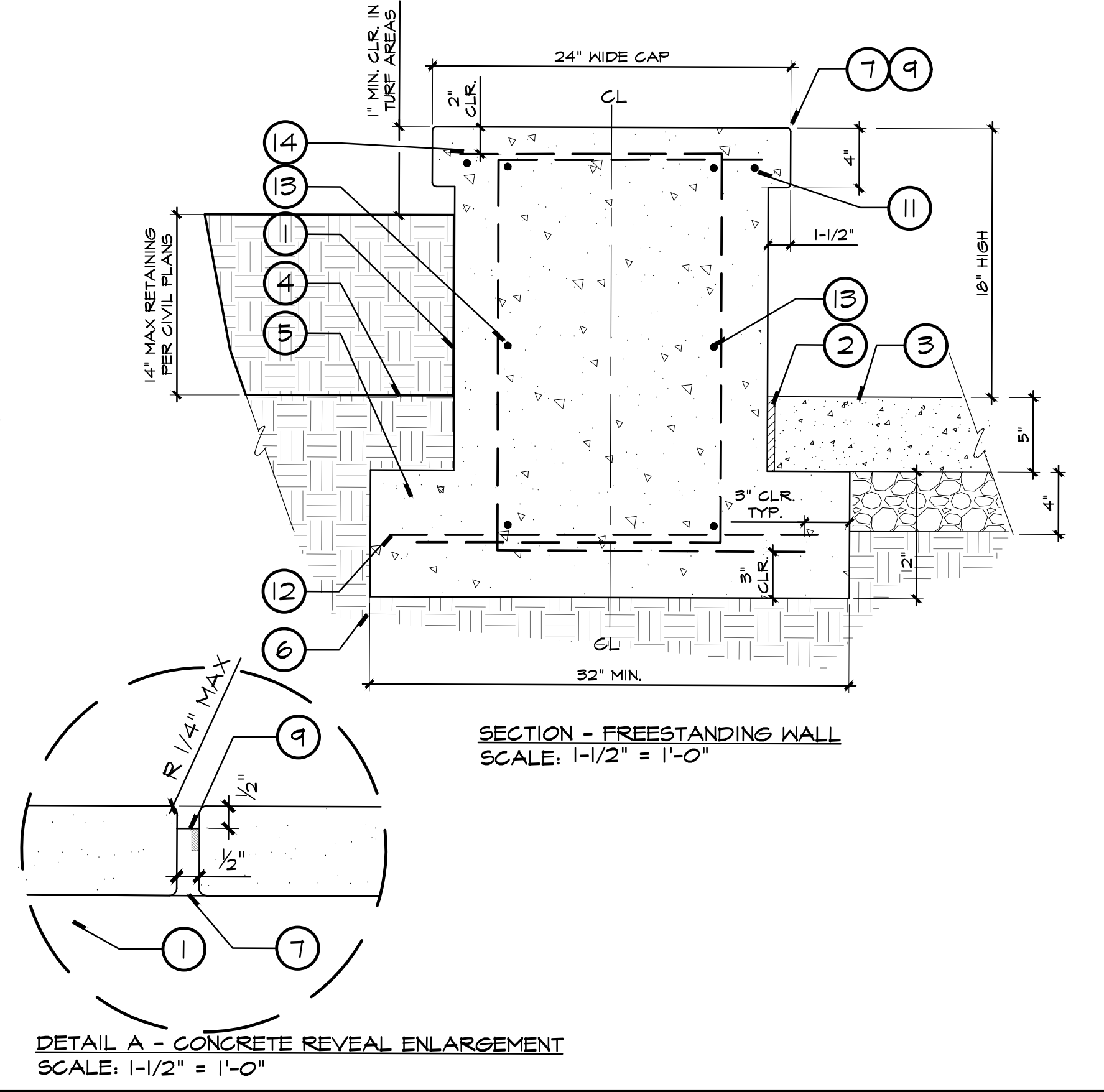
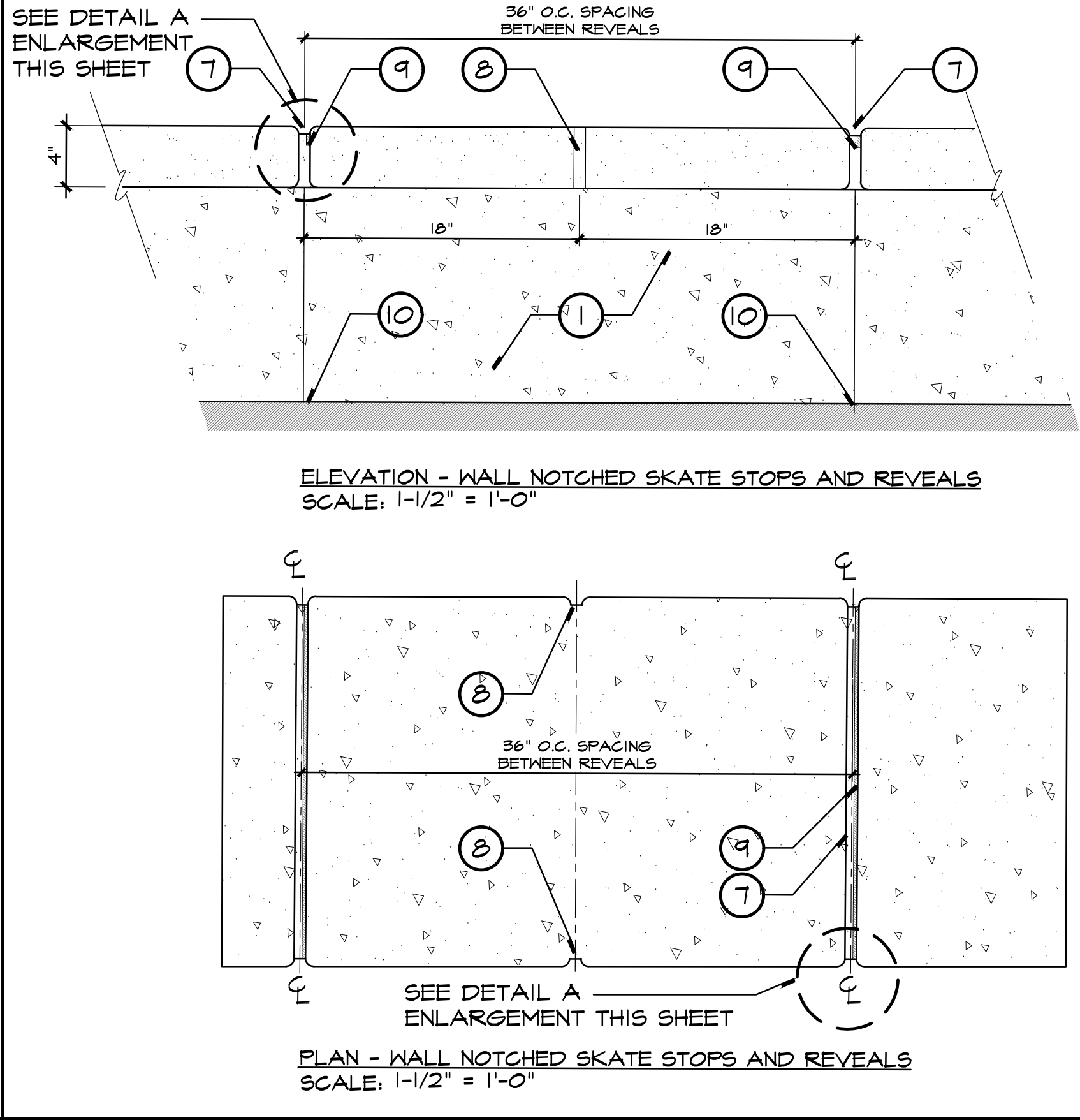
Size	Dimensions	SKU
38 gallon	46" w x 24" d x 37" h	N3-19201938SP2P2
45 gallon	46" w x 24" d x 36" h	N3-19201945SP2P2
55 gallon	46" w x 24" d x 40" h	N3-19201955SP2P2

**Double Sideload**

Size	Dimensions	SKU
26 gallon	38" w x 20" d x 34" h	N3-19201926DP2
32 gallon	38" w x 20" d x 36" h	N3-19201932DP2
38 gallon	50" w x 24" d x 34" h	N3-19201938DP2
45 gallon	50" w x 24" d x 37" h	N3-19201945DP2
55 gallon	50" w x 24" d x 41" h	N3-19201955DP2

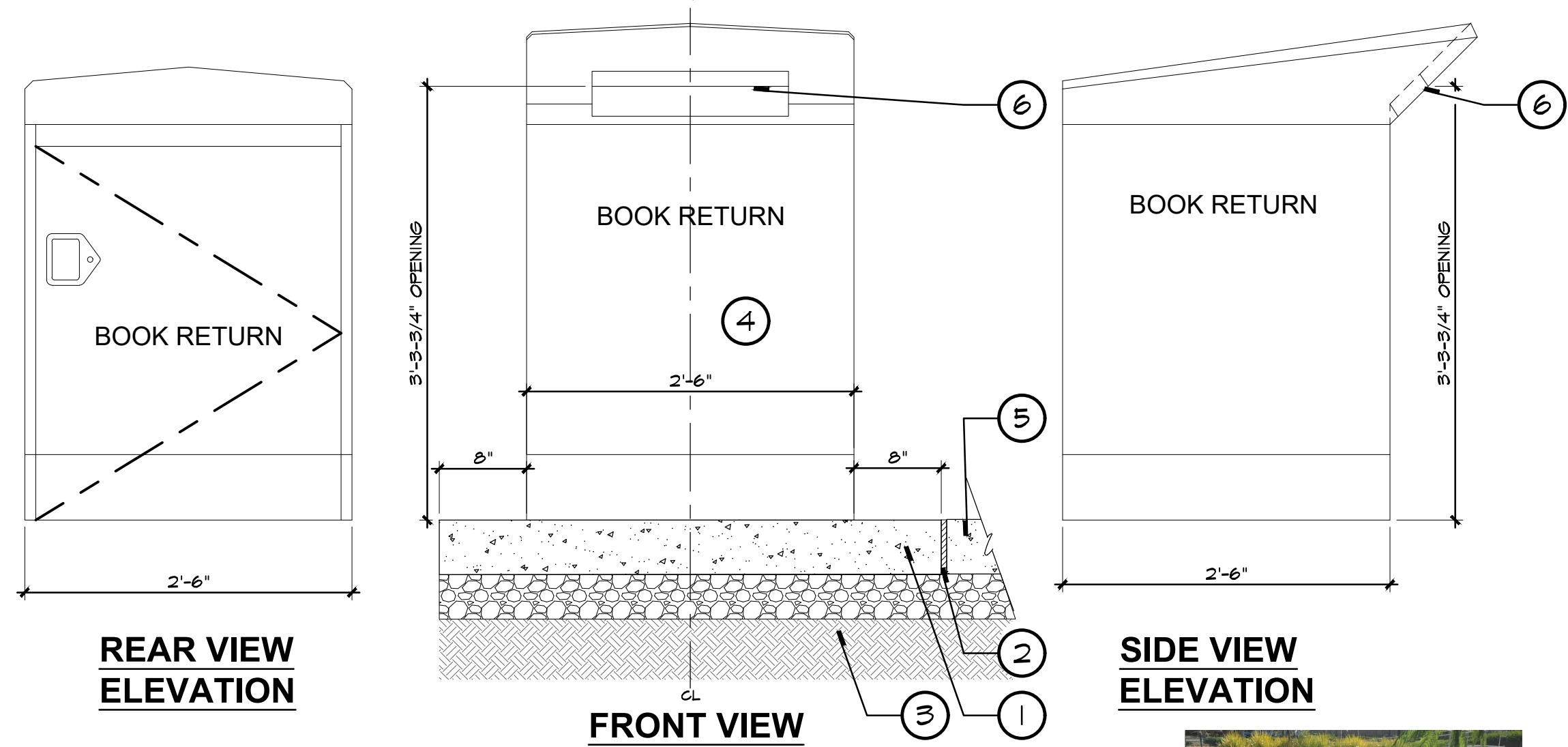
- LEGEND:**
- FURNISH AND INSTALL **RECYCLE AWAY - THE MANCHESTER COLLECTION, 48 GALLON SINGLE-SLIM SIDELOAD SKU #N3-19201455SP2P2**. COLORS, LABELS AND SYMBOLS TO BE SELECTED BY DISTRICT, WITH UNRESTRICTED OPENING. CONTACT: 800-664-5340. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AS SURFACE MOUNTED UNIT.
  - FURNISH AND INSTALL **RECYCLE AWAY - THE MANCHESTER COLLECTION, 48 GALLON DOUBLE SIDELOAD SKU #N3-19201455DP2**. COLORS, LABELS AND SYMBOLS TO BE SELECTED BY DISTRICT, WITH UNRESTRICTED OPENING AND MIXED OPENING FOR RECYCLING SIDE. CONTACT: 800-664-5340. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AS SURFACE MOUNTED UNIT.
- NOTES:**
- ALL EXISTING TRASH RECEPTACLES WITHIN LIMIT OF WORK TO BE REMOVED AND DISPOSED OF. CONTRACTOR SHALL CONFIRM WITH DISTRICT ALL RECEPTACLES TO BE REMOVED AND IF ANY ARE TO BE SALVAGED PRIOR TO CONSTRUCTION. SEE CIVIL ENGINEERS DEMOLITION PLANS.
  - CONCRETE PAD FOR TRASH RECEPTACLES SHALL BE SCORED AT CENTER LINE, BOTH DIRECTIONS.

**4 PEDESTRIAN SECURITY BOLLARD**



- LEGEND:**
- POURED IN PLACE CONCRETE WALL AND GAP WITH SMOOTH STEEL TROWEL FINISH, ALL SIDES. ALL GAP CORNERS AND EDGES TO RECEIVE A 1/2" TOOLED RADIUS.
  - CONTINUOUS EXPANSION JOINT PER CIVIL ENGINEERS PLANS.
  - CONCRETE PAVING PER LANDSCAPE CONSTRUCTION PLANS AND CIVIL ENGINEERS DETAILS.
  - ADJACENT FINISH GRADE PER CIVIL ENGINEERS PLANS.
  - POURED IN PLACE CONCRETE FOOTING AND REINFORCEMENT AS SHOWN.
  - COMPACTED MOISTURE-CONDITION SUBGRADE PER GEOTECHNICAL REPORT.
  - 1/2" WIDE 1/4" MAX RADIUS EDGES X 1/2" DEEP CONCRETE REVEAL, CONTINUOUS ACROSS FACE AND SIDES OF CONCRETE GAP. SPACED AS SHOWN ON ENLARGEMENT.
  - 3/4" WIDE X 1/2" DEEP SKATE STOPPER NOTCH, CENTERED BETWEEN REVEAL JOINTS, BOTH SIDES OF CONCRETE GAP.
  - SINGLE BLADE SAWCUT CONTROL JOINT AT REVEAL JOINTS, 1/3 DEPTH OF CONCRETE GAP PER CIVIL ENGINEERS DETAILS.
  - SAWCUT CONTROL JOINT DOWN FACE OF WALL, BOTH SIDES PER CIVIL ENGINEERS DETAILS.
  - #3 LONGITUDINAL REBAR AT EACH SIDE
  - (4) #5 LONGITUDINAL REBAR
  - #5 REBAR AT 12" O.C. LONGITUDINAL
  - #5 REBAR AT 12" O.C. TRANSVERSE
- NOTES:**
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY DISTRICT PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE 6' x 6' MOCK UP OF WALL AND GAP WITH SKATEBOARD NOTCHES AND DEEP TOOL SCORE JOINTS FOR REVIEW AND APPROVAL BY DISTRICT PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE DEEP TROWEL SCORE JOINTS ACROSS FACE AND TOP OF WALL WHERE SHOWN ON PLANS AND AT ALL CORNER CONDITIONS, TYPICAL.

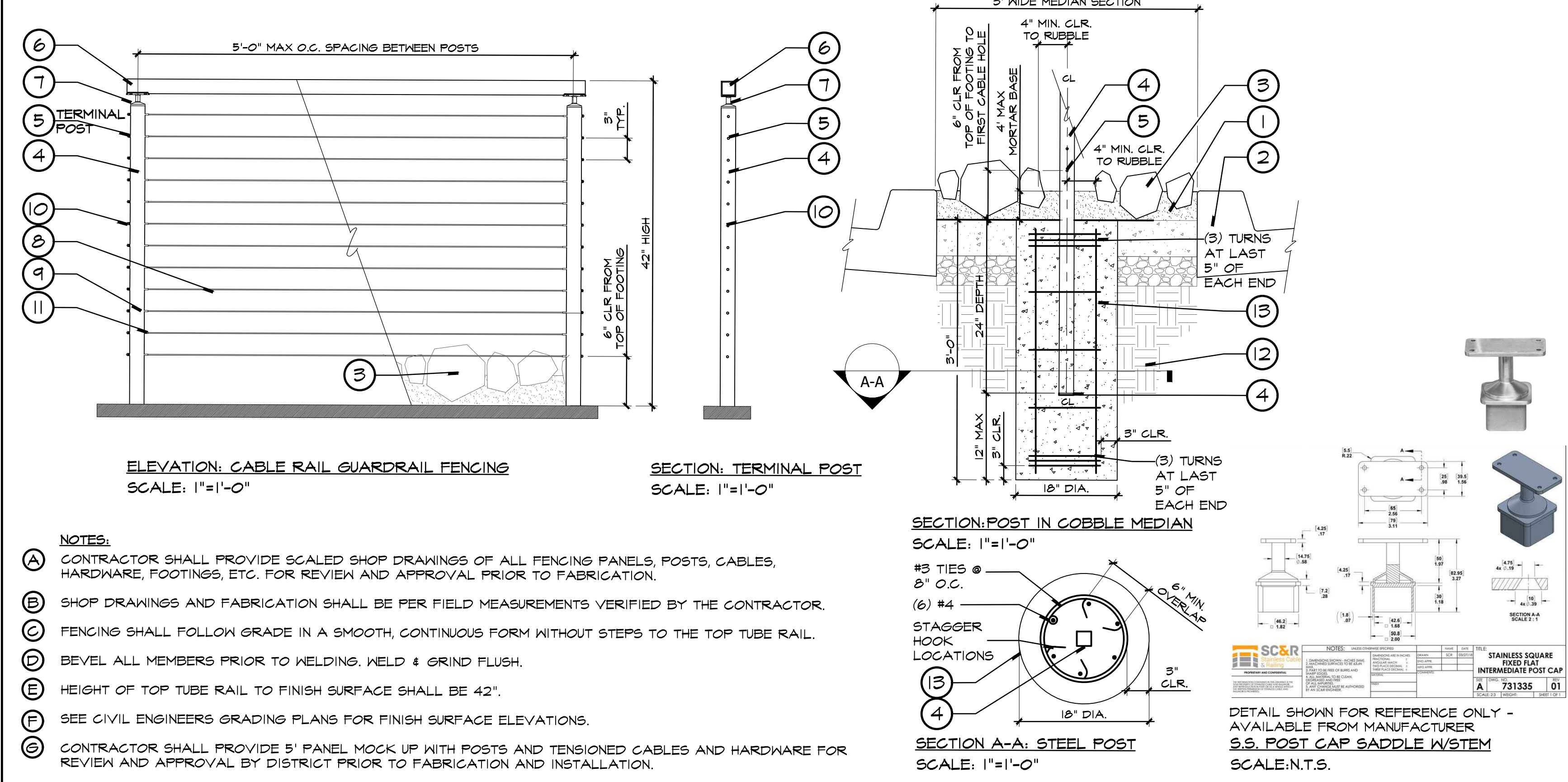
**6 TRASH RECEPTACLE**



- LEGEND:**
- CONCRETE PAVING SECTION PER LANDSCAPE CONSTRUCTION PLANS AND CIVIL ENGINEERS DETAILS.
  - EXPANSION JOINT PER CIVIL ENGINEERS DETAILS.
  - COMPACTED MOISTURE-CONDITIONED SUBGRADE PER GEOTECHNICAL REPORT.
  - RELOCATED BOOK DROP. ATTACH PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS. OPENING FACING UNLOADING ZONE.
  - ADJACENT FINISH GRADE PER CIVIL ENGINEERS PLANS AND DETAILS.
  - BOOK DROP OPENING
- NOTES:**
- CONTRACTOR SHALL PROVIDE 6'x6' MOCK UP PANEL OF CONCRETE WITH COLOR AND FINISH PER PLANS FOR DISTRICT REVIEW AND APPROVAL.



**2 POURED IN PLACE CONCRETE WALL**



- LEGEND:**
- 4" THICK COBBLE MORTAR SECTION SEE DETAIL 5, SHEET L-2.01.
  - CONCRETE CURB AND GUTTER PER CIVIL ENGINEERS PLANS AND DETAILS.
  - COBBLE PAVING PER DETAIL 5, SHEET L-2.01 AND LANDSCAPE CONSTRUCTION PLAN. PROVIDE 4" MINIMUM CLEAR, BOTH SIDES OF CENTER OF CABLE FENCE ALIGNMENT FOR APPLICATION OF MORTAR BASE ONLY WITHOUT COBBLE, TO ALLOW 2" MINIMUM CLEARANCE FROM TOP OF MORTAR BASE TO FIRST CABLE RAIL.
  - 42" HIGH, 2" SQ. 3/16" THICK MIN. STAINLESS STEEL POST. EMBED POST IN CONCRETE FOOTING WITH 1/4" THICK BASE PLATE. POSTS SHALL BE EVENLY SPACED PER FIELD CONDITIONS, MAX 5' O.C. SPACING.
  - 12, 2 1/8" PRE-DRILLED CABLE HOLES, BOTH SIDES OF POSTS TO ACCEPT CABLE THREAD. HOLES SHALL BE EVENLY SPACED, 6" CLEAR FROM TOP OF FOOTING TO ALLOW 4" MORTAR BASE AND ROCK COBBLE CLEARANCE.
  - 1/2" x 2" 1/2 MM WALL THICKNESS FLAT STAINLESS STEEL TOP RAIL. RAIL SHALL BE CENTERED ON POSTS AND BE WELDED IN SMOOTH, CONTINUOUS TANGENTS TO FOLLOW CENTERLINE OF MEDIAN.
  - 2" SQ. STAINLESS STEEL POST CAP SADDLE WITH 1" SOLID S.S. STEM AND FLAT TOP RAIL MOUNT, WELD TO POSTS AND TOP RAIL TUBE. USE TERMINAL CAPS AT TERMINAL ENDS OF POSTS. AVAILABLE FROM: **SC&R STAINLESS CABLE & RAILING** OR ENGINEER APPROVED EQUAL. CONTACT: 1-888-345-4682.
  - 1/8" THK STAINLESS STEEL CABLE, AVAILABLE FROM **SOUTHWEST CABLE RAILING** OR ENGINEER APPROVED EQUAL. CONTACT DOUG BEAVER (626) 806-8773.
  - PRE-SHAGED FIELD THREADED STAINLESS STEEL CABLE TENSIONER WITH S.S. ACORN NUT, S.S. HEX NUT AND S.S. WASHER. REPLACE EXTERIOR ACORN NUTS WITH FLAT DOME JAM NUT. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
  - STAINLESS STEEL FLAT DOME JAM NUT, MODEL: ATTACH TO TERMINAL POST CABLE TENSIONERS ON EXTERIOR SIDE.
  - STAINLESS STEEL PROTECTIVE SLEEVE, THREAD CABLE AND INSERT AT EACH INTERIOR POST HOLE.
  - COMPACTED MOISTURE-CONDITION SUBGRADE PER GEOTECHNICAL REPORT.
  - CONCRETE FOOTING AND REINFORCEMENT AS SHOWN.
- NOTES:**
- CONTRACTOR SHALL PROVIDE SCALED SHOP DRAWINGS OF ALL FENCING PANELS, POSTS, CABLES, HARDWARE, FOOTINGS, ETC. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
  - SHOP DRAWINGS AND FABRICATION SHALL BE PER FIELD MEASUREMENTS VERIFIED BY THE CONTRACTOR.
  - FENCING SHALL FOLLOW GRADE IN A SMOOTH, CONTINUOUS FORM WITHOUT STEPS TO THE TOP TUBE RAIL.
  - BEVEL ALL MEMBERS PRIOR TO WELDING, WELD & GRIND FLUSH.
  - HEIGHT OF TOP TUBE RAIL TO FINISH SURFACE SHALL BE 42".
  - SEE CIVIL ENGINEERS GRADING PLANS FOR FINISH SURFACE ELEVATIONS.
  - CONTRACTOR SHALL PROVIDE 5' PANEL MOCK UP WITH POSTS AND TENSIONED CABLES AND HARDWARE FOR REVIEW AND APPROVAL BY DISTRICT PRIOR TO FABRICATION AND INSTALLATION.

**7 RELOCATED BOOK DROP AND CONCRETE PAD**

**3 GUARDRAIL FENCING**



**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM 3	01/17/2023

**DATE ISSUED:** 2018-11-19

**PROJECT NO:** 2018-40167

**DSA APPLICATION NO:** 04-121029

**SCALE:** As indicated

**SHEET NUMBER:** L-2.01

**SHEET TITLE:**

**LANDSCAPE CONSTRUCTION DETAILS**

31591 Camino Capistrano  
San Juan Capistrano, CA 92675  
www.RJMdesigngroup.com  
(949) 493-2690  
(949) 493-2600 (toll free)

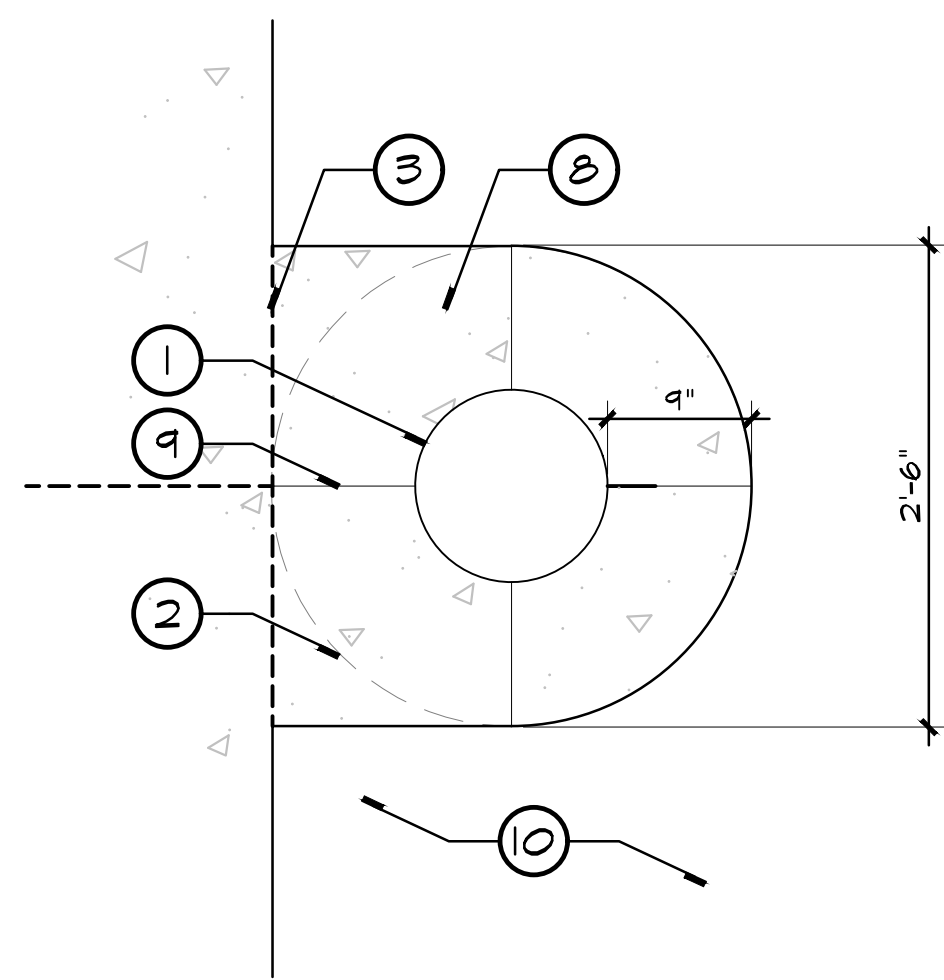
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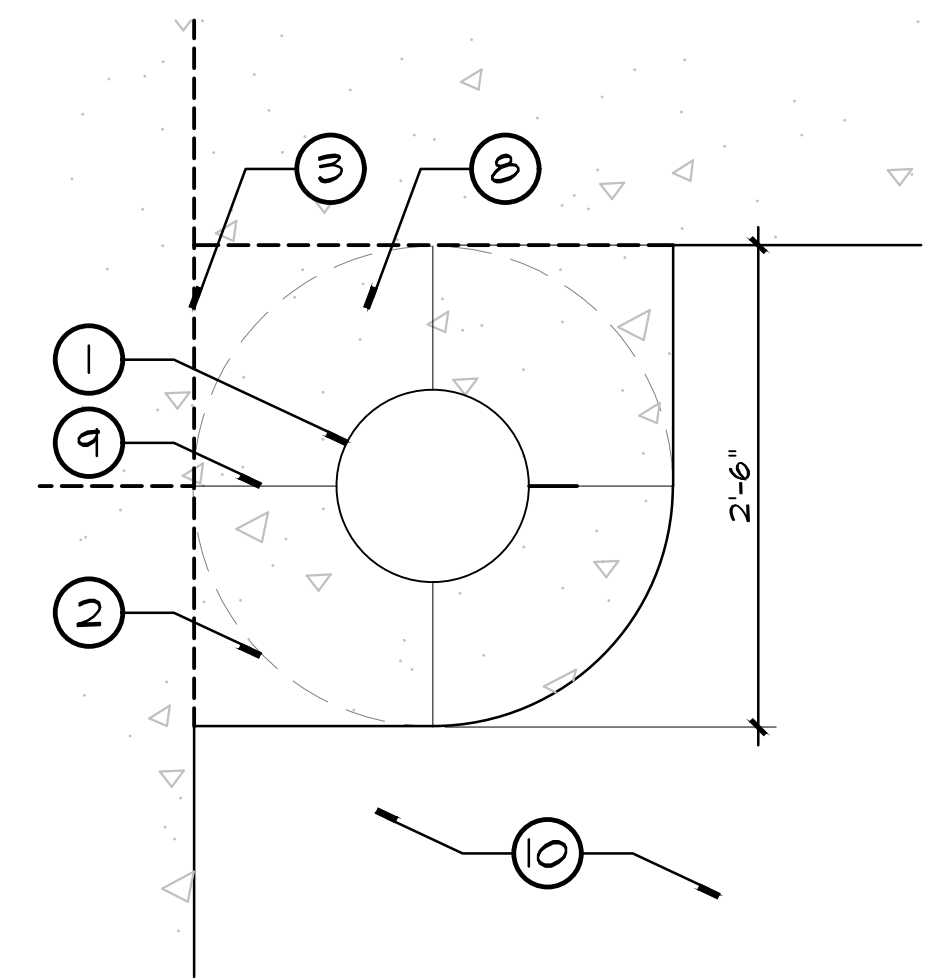
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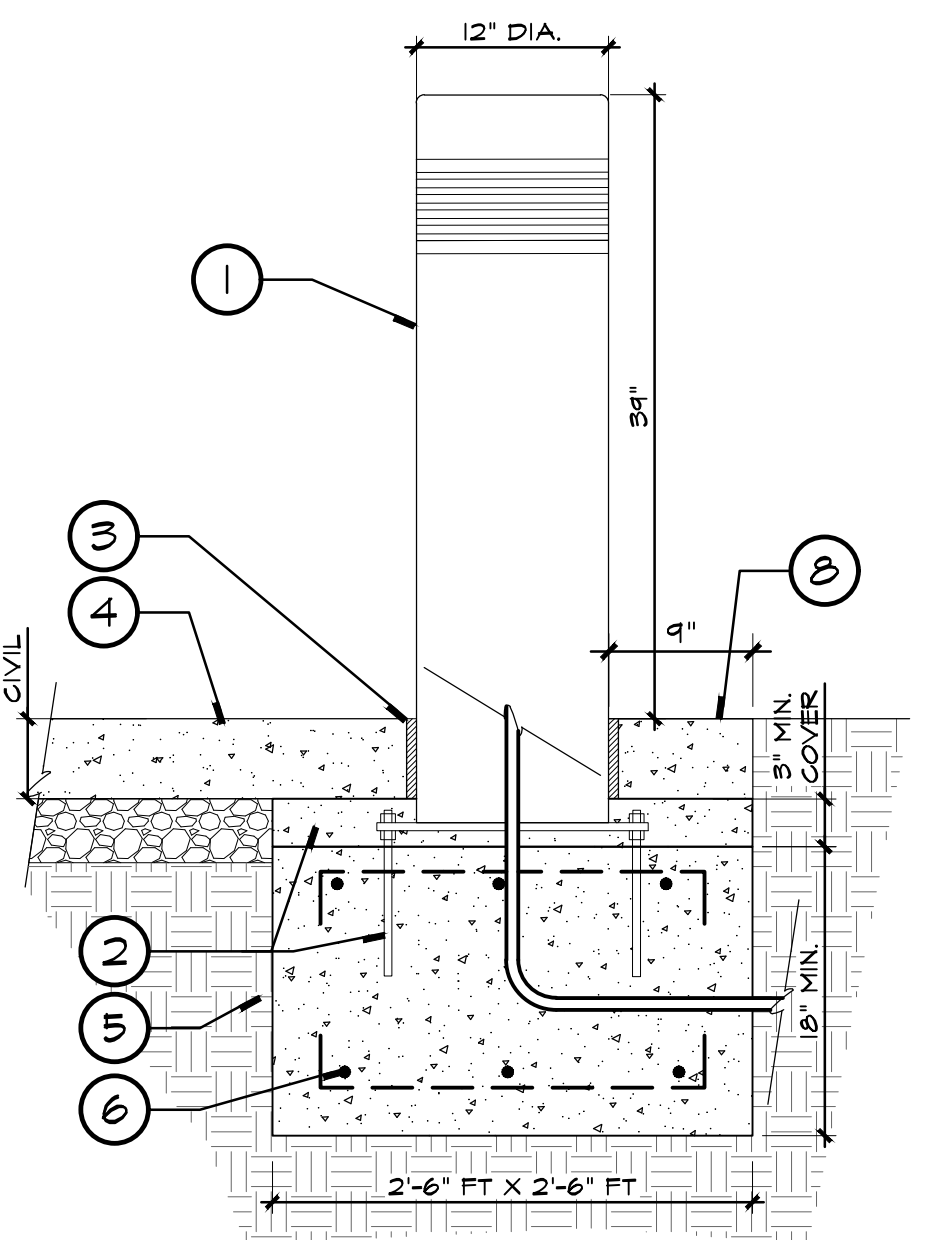




PLAN: CONCRETE BOLLARD AT PLANTER AREA  
SCALE: 1"=1'-0"



PLAN: CONCRETE BOLLARD AT CORNER PLANTER AREA  
SCALE: 1"=1'-0"

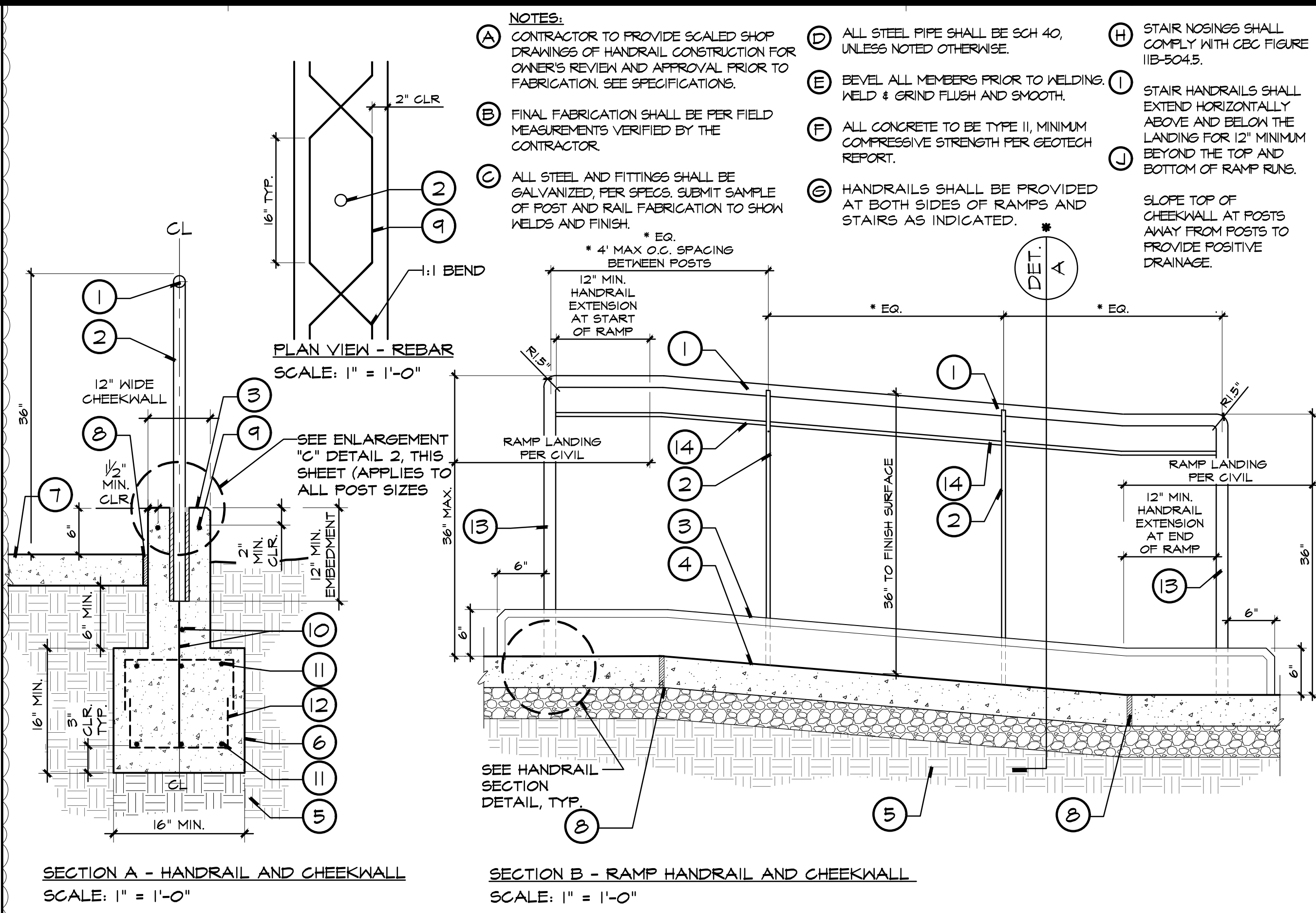


SECTION: CONCRETE BOLLARD AT PLANTER AREA  
SCALE: 1"=1'-0"

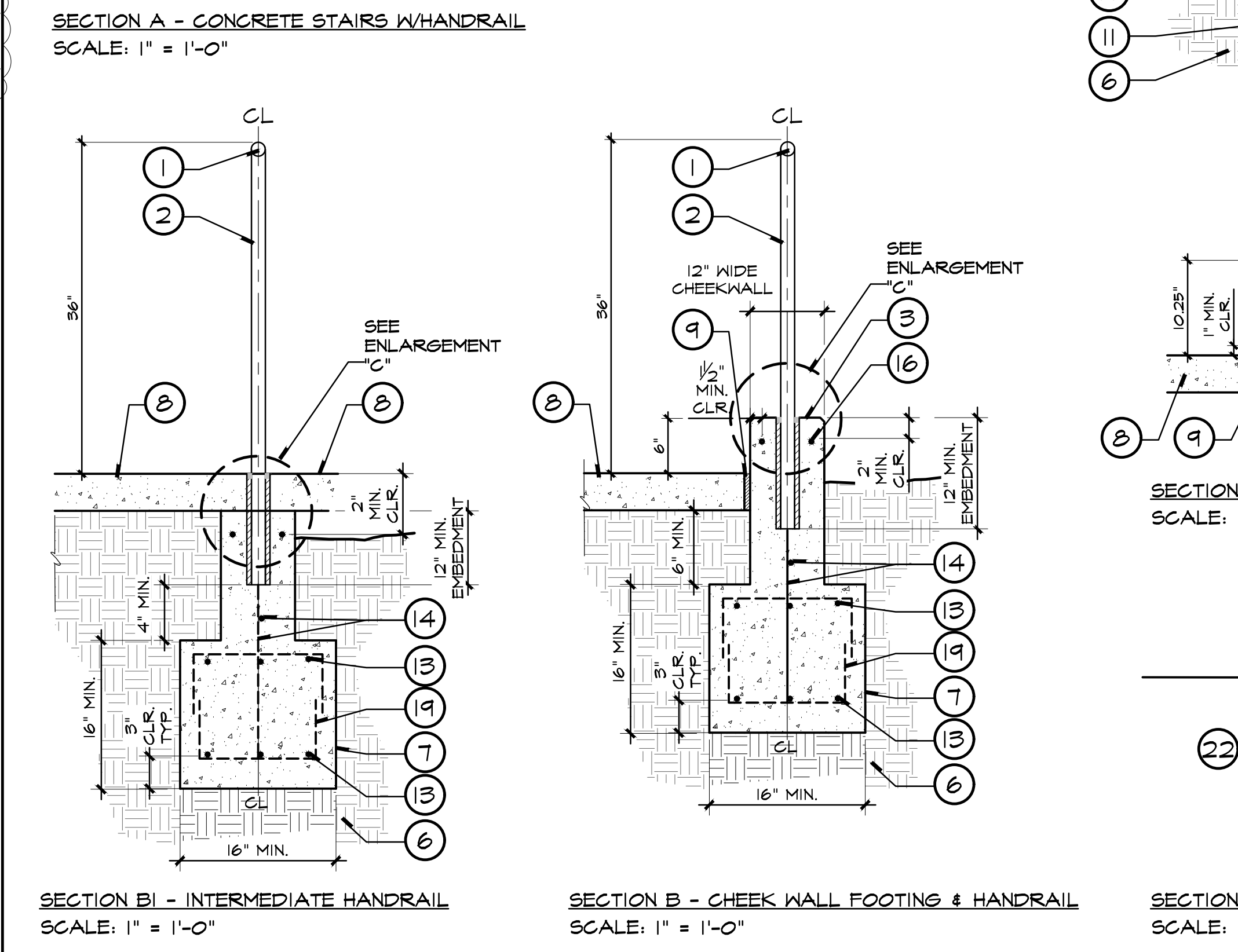
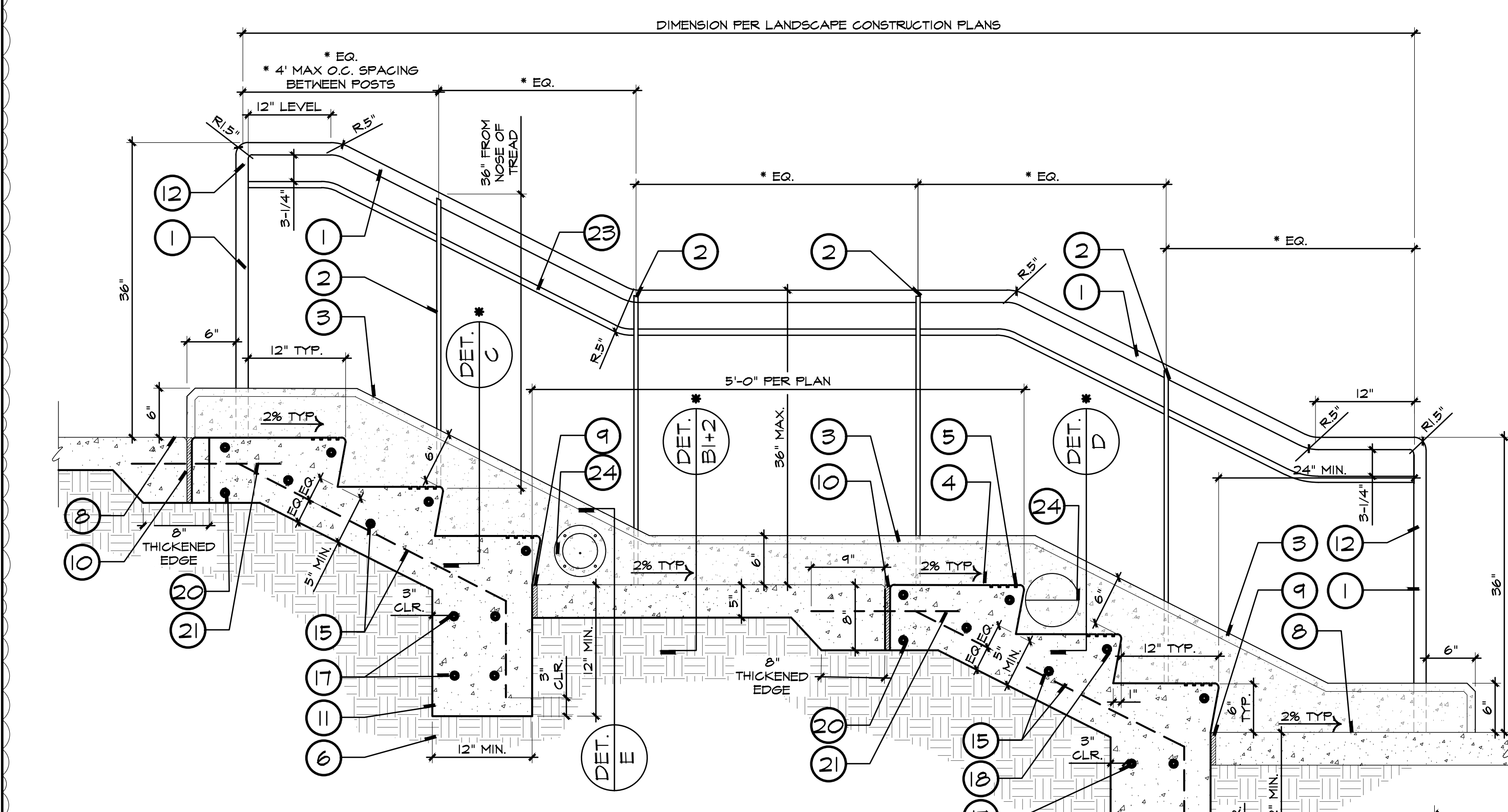
3 PEDESTRIAN LIGHTED BOLLARD IN PLANTER AREA

- LEGEND:**
- CONCRETE BOLLARD WITH LIGHT PER ELECTRICAL ENGINEERS PLANS. MODEL #BOL5002P-40, BY ENVIRONMENTAL LIGHTING FOR ARCHITECTURE, INC. ELA. INSTALL WITHOUT OPTIONAL BASE PLATE. INSTALL PER MANUFACTURER'S SPECIFICATIONS AND ELECTRICAL PLANS.
  - CONCRETE BOLLARD FOOTING AND REINFORCEMENT PER ELECTRICAL ENGINEERS PLANS AND DETAIL 5, SHEET E-5.01. CONSTRUCT FOOTING BELOW PAVING SECTION, PROVIDE 3" MIN. GROUT COVER AROUND ALL STEEL.
  - APPLY 1/2" BEAD OF GUN GRADE POLYMER SEALANT, DYNATREED BY PEGORA OR APPROVED EQUAL, TO BASE OF CONCRETE BOLLARD AND ADJACENT CONCRETE PAVING. COVER SURFACE OF NET SEALANT WITH SILICA SAND. SEALANT COLOR: TO MATCH ADJACENT CONCRETE.
  - CONCRETE PAVING PER LANDSCAPE CONSTRUCTION PLANS AND CIVIL ENGINEERS DETAILS.
  - COMPACTED MOISTURE-CONDITIONED SUBGRADE PER GEOTECHNICAL REPORT.
  - #5 REBAR @ 12" O.C. EACH WAY, TOP AND BOTTOM.
  - PLANTER AREA
  - CONCRETE COLLAR, COLLAR TO COVER EXTENTS OF BOLLARD FOOTING.
  - SCORE JOINT
  - ADJACENT PLANTER AREA
- NOTES:**
- PROVIDE BOLLARD SUBMITTAL FOR REVIEW AND APPROVAL BY DISTRICT PRIOR TO CONSTRUCTION.

5 NOT USED



1 HANDRAIL AND CHEEKWALL AT CONCRETE RAMP



SECTION A - CONCRETE STAIRS W/HANDRAIL  
SCALE: 1"=1'-0"

SECTION B - CHEEK WALL FOOTING & HANDRAIL  
SCALE: 1"=1'-0"

SECTION C - INTERMEDIATE HANDRAIL  
SCALE: 1"=1'-0"

SECTION D - SAFETY STRIPES  
SCALE: 1"=1'-0"

SECTION E - STEP LIGHT  
SCALE: 1"=1'-0"

2 HANDRAIL AND CHEEKWALL AT CONCRETE STAIRS

- LEGEND:**
- 1.25" DIA. (1.66" O.D.) SCHEDULE 80 STAINLESS STEEL TOP RAIL, WELD TO POSTS CONTINUOUS. TOP RAIL SHALL BE 36" VERTICALLY FROM FINISH SURFACE TO TOP OF RAIL PER DISTRICT DESIGN STANDARDS. STAIR HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE AND BELOW LANDING TREADS AND RISERS FOR 12" MINIMUM BEYOND THE FIRST TREAD AND TOP RISER.
  - 1/2" X 1/2" STAINLESS STEEL VERTICAL POST WITH SEMI-CIRCLE NOTCH AT TOP FOR WELDING TO BOTTOM OF HORIZONTAL TOP HANDRAIL. LOCATE TOP BOTTOM AND LANDING POSTS FOLLOWED BY IN-BETWEEN POSTS SPACED EQUALLY, 4'-0" MAX O.C. SPACING. EMBED POSTS MIN. 12" IN CONCRETE CHEEKWALL WHEN LOCATED AT STAIR ENDS AND DIRECTLY IN PAVING AT CENTER OF STAIRWAY (PER ENLARGEMENT 'C' DETAIL 2, THIS SHEET). CORE DRILL CHEEKWALL / FOOTING OR PROVIDE 3" SCH. 40 FVCG SET 1/2" BELOW ADJACENT FINISH SURFACE. SECURE WITH SUPER FOR-ROK OR APPROVED EQUAL TO 1/2" BELOW ADJACENT FINISH SURFACE. APPLY 1/2" BEAD OF 'GUN GRADE' POLYMER SEALANT BY PEGORA OR APPROVED EQUAL TO TOP OF SUPER FOR-ROK BACKFILL. SLOPE AWAY FROM POST. COVER SURFACE OF NET SEALANT WITH SILICA SAND. SEALANT COLOR: TO MATCH ADJACENT CONCRETE.
  - 12" WIDE, POURED IN PLACE CONCRETE CHEEKWALL WITH 1" CHAMFER ON ALL EDGES AND STEEL TROWEL FINISH. SEE CIVIL PLANS FOR GRADES / FINISH SURFACE ELEVATIONS.
  - RAMP CONCRETE PAVING SHALL BE NATURAL GREY CONCRETE WITH STEEL TROWEL, NON-SLIP FINISH. PAVEMENT DESIGN PER CIVIL ENGINEER'S PLANS.
  - SUBGRADE PREPARATION AND COMPACTION PER GEOTECH REPORTS. SEE SPECIFICATIONS.
  - POST CONCRETE FOOTING AND REINFORCEMENT AS SHOWN.
  - ADJACENT CONCRETE PAVING PER LANDSCAPE CONSTRUCTION PLANS AND CIVIL ENGINEERS DETAILS.
  - EXPANSION JOINT PER CIVIL ENGINEERS DETAILS.
  - (2) #4 REBAR, 2" CLEAR FROM TOP OF CHEEK WALL, REFER TO PLAN VIEW REBAR ENLARGEMENT.
  - #5 REBAR AT 12" O.C. EACH WAY.
  - (3) #5 TOP AND BOTTOM REBAR, CONTINUOUS.
- LEGEND CONTINUED:**
- #4 AT 12" O.C., TOP AND BOTTOM
  - TOP HANDRAIL RETURN TO 1-1/2" (1-7/8" O.D.) STAINLESS STEEL VERTICAL POST WITH SEMI-CIRCLE NOTCH AT TOP FOR WELDING TO BOTTOM OF HORIZONTAL TOP HANDRAIL. LOCATE TOP BOTTOM AND LANDING POSTS FOLLOWED BY IN-BETWEEN POSTS SPACED EQUALLY, 4'-0" MAX O.C. SPACING. EMBED POSTS MIN. 12" IN CONCRETE CHEEKWALL WHEN LOCATED AT STAIR ENDS AND DIRECTLY IN PAVING AT CENTER OF STAIRWAY (PER ENLARGEMENT 'C' DETAIL 2, THIS SHEET). CORE DRILL CHEEKWALL / FOOTING OR PROVIDE 3" SCH. 40 FVCG SET 1/2" BELOW ADJACENT FINISH SURFACE. SECURE WITH SUPER FOR-ROK OR APPROVED EQUAL TO 1/2" BELOW ADJACENT FINISH SURFACE. APPLY 1/2" BEAD OF 'GUN GRADE' POLYMER SEALANT BY PEGORA OR APPROVED EQUAL TO TOP OF SUPER FOR-ROK BACKFILL. SLOPE AWAY FROM POST. COVER SURFACE OF NET SEALANT WITH SILICA SAND. SEALANT COLOR: TO MATCH ADJACENT CONCRETE.
  - 3/4" STEEL ROD MID RAIL, WELD ROD TO STAIR FACING SIDE OF VERTICAL CENTER POSTS.
- NOTES:**
- CONTRACTOR TO PROVIDE SCALED SHOP DRAWINGS OF HANDRAIL CONSTRUCTION FOR OWNER'S REVIEW AND APPROVAL PRIOR TO FABRICATION. SEE SPECIFICATIONS.
  - FABRICATION SHALL BE PER FIELD MEASUREMENTS VERIFIED BY THE CONTRACTOR.
  - ALL STEEL AND FITTINGS SHALL BE GALVANIZED, PER SPEC. SUBMIT SAMPLE OF POST AND RAIL FABRICATION TO SHOW WELDS AND FINISH.
  - ALL STEEL PIPE SHALL BE SCH 40, UNLESS NOTED OTHERWISE.
  - BEVEL ALL MEMBERS PRIOR TO WELDING, WELD & GRIND FLUSH AND SMOOTH.
  - ALL CONCRETE TO BE TYPE II, MINIMUM COMPRESSIVE STRENGTH PER GEOTECH REPORT.
  - HANDRAILS SHALL BE PROVIDED AT BOTH SIDES OF RAMPS AND STAIRS AS INDICATED.
  - STAIR NOSINGS SHALL COMPLY WITH CBC FIGURE 11B-504.5.
  - RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE AND BELOW THE LANDING FOR 12" MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS.

- LEGEND:**
- 1.25" DIA. (1.66" O.D.) SCHEDULE 80 STAINLESS STEEL TOP RAIL, WELD TO POSTS CONTINUOUS. TOP RAIL SHALL BE 36" VERTICALLY FROM FINISH SURFACE TO TOP OF RAIL PER DISTRICT DESIGN STANDARDS. STAIR HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE AND BELOW LANDING TREADS AND RISERS FOR 12" MINIMUM BEYOND THE FIRST TREAD AND TOP RISER, AS SHOWN.
  - 1/2" X 1/2" STAINLESS STEEL VERTICAL POST WITH SEMI-CIRCLE NOTCH AT TOP FOR WELDING TO BOTTOM OF HORIZONTAL TOP HANDRAIL. LOCATE TOP BOTTOM AND LANDING POSTS FOLLOWED BY IN-BETWEEN POSTS SPACED EQUALLY, 4'-0" MAX O.C. SPACING. EMBED POSTS MIN. 12" IN CONCRETE CHEEKWALL WHEN LOCATED AT STAIR ENDS AND DIRECTLY IN PAVING AT CENTER OF STAIRWAY (PER ENLARGEMENT 'C' DETAIL 2, THIS SHEET). CORE DRILL CHEEKWALL / FOOTING OR PROVIDE 3" SCH. 40 FVCG SET 1/2" BELOW ADJACENT FINISH SURFACE. SECURE WITH SUPER FOR-ROK OR APPROVED EQUAL TO 1/2" BELOW ADJACENT FINISH SURFACE. APPLY 1/2" BEAD OF 'GUN GRADE' POLYMER SEALANT, DYNATREED BY PEGORA OR APPROVED EQUAL, TO TOP OF SUPER FOR-ROK BACKFILL. SLOPE AWAY FROM POST. COVER SURFACE OF NET SEALANT WITH SILICA SAND. SEALANT COLOR: TO MATCH ADJACENT CONCRETE.
  - 12" WIDE, POURED IN PLACE CONCRETE CHEEKWALL AT TERMINAL ENDS OF STAIRS ONLY, WITH 1" CHAMFER ON ALL EDGES AND STEEL TROWEL FINISH. SEE CIVIL PLANS FOR GRADES / FINISH SURFACE ELEVATIONS.
  - POURED-IN-PLACE NATURAL GRAY CONCRETE STAIRS WITH NON-SLIP STEEL TROWEL FINISH. SEE CIVIL ENGINEERS PLANS FOR GRADES / FINISH SURFACE ELEVATIONS. STAIR TREADS SHALL RECEIVE 3" WIDE, NON-SLIP SAFETY PAINTED STRIP, PLACED NO MORE THAN 1/2" FROM NOSE OF STEP, CONTINUOUS ALONG FULL LENGTH OF EACH STEP. COLORS: YELLOW AT TOP AND BOTTOM RISERS / BLACK ON ALL INTERMEDIATE RISERS. PAINT BY: MONPOLE INC., TYPE: FLOORCOAT, MODEL: 2400 / 2500 OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS (818) 500-8585.
  - 1/2" TOOLED RADIUS, TYPICAL.
  - SUBGRADE PREPARATION AND COMPACTION PER GEOTECH REPORTS. SEE SPECIFICATIONS.
  - POST CONCRETE FOOTING AND REINFORCEMENT AS SHOWN.
  - ADJACENT CONCRETE PAVING PER LANDSCAPE CONSTRUCTION PLANS AND CIVIL ENGINEERS DETAILS.
  - EXPANSION JOINT PER CIVIL ENGINEERS DETAILS.
  - CONTINUOUS GILD JOINT PER CIVIL ENGINEERS DETAILS.
  - STAIR CONCRETE FOOTING AND REINFORCEMENT AS SHOWN.
  - TOP HANDRAIL RETURN TO POST. BEVEL, WELD AND GRIND FLUSH AND SMOOTH.
  - (3) #5 TOP AND BOTTOM REBAR, CONTINUOUS.
  - #5 REBAR AT 12" O.C. EACH WAY.
  - #4 REBAR AT 12" O.C. EACH WAY, AT MID HEIGHT OF SLAB.
  - (2) #4 REBAR, 2" CLEAR FROM TOP OF CHEEK WALL.
  - (2) #4 CONTINUOUS REBAR, TOP AND BOTTOM.
  - #4 NOSING BAR, CONTINUOUS, TYPICAL.
  - #4 AT 12" O.C., TOP AND BOTTOM
  - (2) #4 CONTINUOUS REBAR.
  - SPEED DOWN AT 24" O.C. SPACING. SEE DETAIL 2, SHEET L-2.01.
  - 3" WIDE PAINTED YELLOW WARNING STRIPING, APPROXIMATE 3355B OF SAE AMS-STD-595A W/IN 1/2" OF TREAD NOSE.
  - 3/4" STEEL ROD MID RAIL, WELD ROD TO STAIR FACING SIDE OF VERTICAL CENTER POSTS.
  - STEP LIGHT FIX-LITE-E0015-PC556 PER ELECTRICAL PLANS.

- NOTES:**
- CONTRACTOR TO PROVIDE SCALED SHOP DRAWINGS OF HANDRAIL CONSTRUCTION FOR OWNER'S REVIEW AND APPROVAL PRIOR TO FABRICATION. SEE SPECIFICATIONS.
  - FABRICATION SHALL BE PER FIELD MEASUREMENTS VERIFIED BY THE CONTRACTOR.
  - ALL STAINLESS STEEL POSTS, RAILS AND FITTINGS SHALL BE GALVANIZED, PER SPEC. SUBMIT SAMPLE OF POST AND RAIL FABRICATION TO SHOW WELDS AND FINISH.
  - ALL STEEL PIPE SHALL BE SCH 40, UNLESS NOTED OTHERWISE.
  - BEVEL ALL MEMBERS PRIOR TO WELDING, WELD & GRIND FLUSH AND SMOOTH.
  - ALL CONCRETE TO BE TYPE II, MINIMUM COMPRESSIVE STRENGTH PER GEOTECH REPORT.
  - HANDRAILS SHALL BE PROVIDED AT BOTH SIDES OF RAMPS AND STAIRS AS INDICATED.
  - STAIR NOSINGS SHALL COMPLY WITH CBC FIGURE 11B-504.5.
  - STAIR HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE AND BELOW THE LANDING FOR 12" MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS.
  - SLOPE TOP OF CHEEKWALL AT POSTS AWAY FROM POSTS TO PROVIDE POSITIVE DRAINAGE.
- REVISIONS:**
- | NO. | DESCRIPTION | DATE       |
|-----|-------------|------------|
| 3   | ADDENDUM 3  | 01/17/2023 |
- DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** L-2.02  
**SHEET TITLE:** LANDSCAPE CONSTRUCTION DETAILS
- UNDERGROUND SERVICE ALERT**  
CALL: 811  
TWO WORKING DAYS BEFORE YOU DIG



**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM 3	01/17/2023

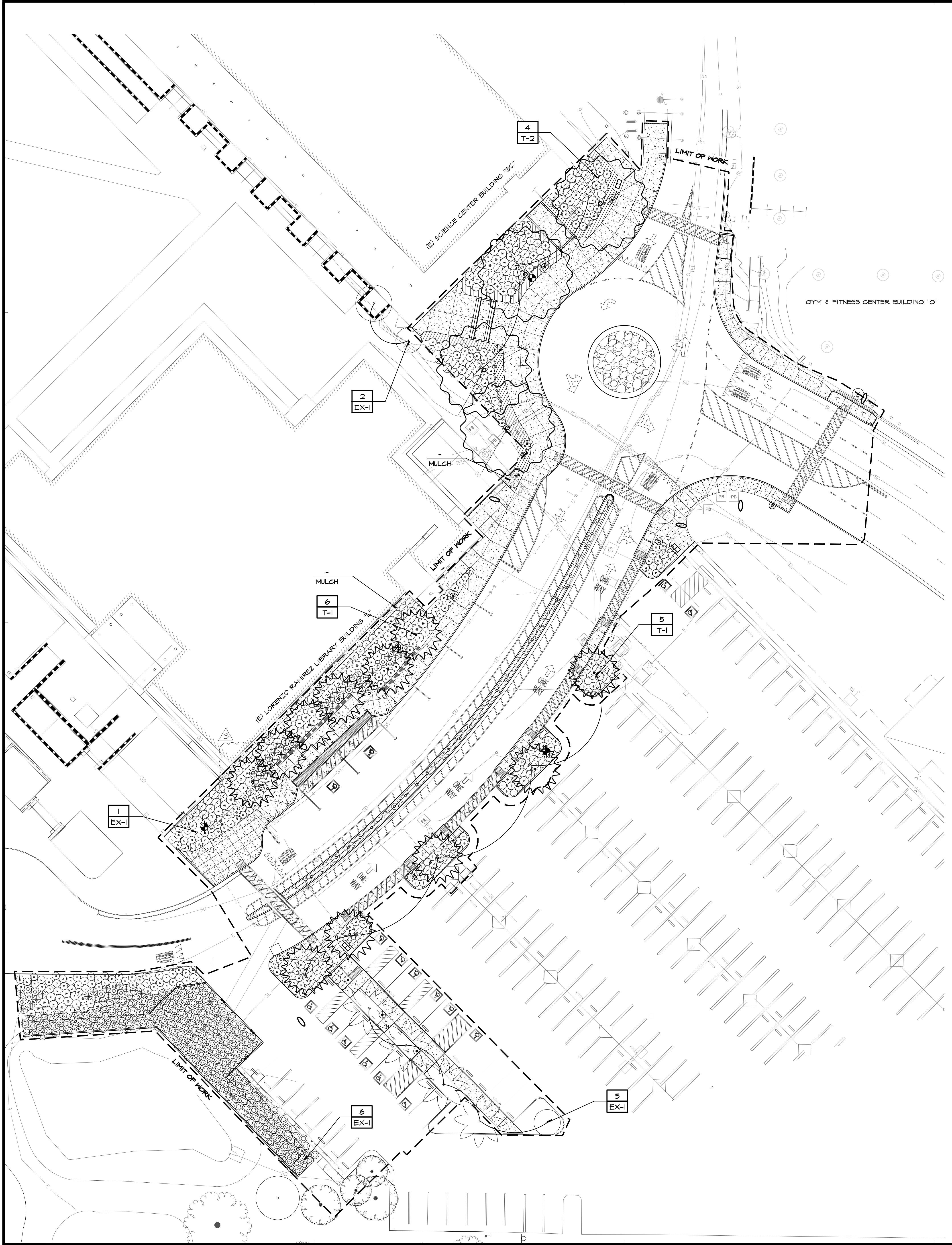
**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** L-2.02  
**SHEET TITLE:** LANDSCAPE CONSTRUCTION DETAILS

LANDSCAPE CONSTRUCTION DETAILS

31591 Camino Capistrano  
San Juan Capistrano, CA 92675  
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(949) 493-2690 fax  
(949) 493-2600 phone

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**TREE LEGEND**

BOTANICAL NAME COMMON NAME	SIZE	SPACING	DISTRICT APPROVED PLANT	MUCOLS ZONE 3	QTY.
T-1 GEIJERA PARVIFLORA AUSTRALIAN WILLOW	36" BOX	SPACING PER PLAN	YES	L	11
T-2 PODOCARPUS GARGILIOR - FEMALE FERN FINE	36" BOX	SPACING PER PLAN	YES	M	4
EX-1 EXISTING TREE OR PALM TO REMAIN PROTECT IN PLACE	-	AS SHOWN	-	-	-

**SHRUB AND GROUNDCOVER LEGEND**

BOTANICAL NAME COMMON NAME	SIZE	SPACING	DISTRICT APPROVED PLANT	MUCOLS ZONE 3	QTY.
S-1 DYMNDIA MARGARETAE SILVER CARPET	1 GAL.	12" O.C.	NOT LISTED	L	36
S-2 MYOPORUM PARVIFOLIUM 'PUTAH CREEK' CREEPING MYOPORUM	1 GAL.	3'-6" O.C.	YES	L	208
S-3 LANTANA X 'NEW GOLD' LANTANA NEW GOLD	1 GAL.	3'-6" O.C.	NOT LISTED	VL	78
S-4 PHORMIUM TENAX SURFER NEW ZEALAND FLAX	5 GAL.	4'-0" O.C.	YES	L	120
S-5 WESTRINGIA BLUE GEM BLUE GEM COAST ROSEMARY	5 GAL.	3'-6" O.C.	NOT LISTED	L	60
S-6 ROSMARINUS OFFICINALIS 'TUSCAN BLUE' UPRIGHT ROSEMARY	5 GAL.	4'-0" O.C.	YES	VL	77
S-7 ELAAGNUS FURGENS SILVERBERRY	5 GAL.	4'-0" O.C.	NOT LISTED	L	38
S-8 BIOSWALE SOIL MEDIA / DETENTION BASIN PLANTING - MULENBERGIA CAPILLARIS	1 GAL.	3'-6" O.C.	YES	M	247
- MULCH - SYMBOL SHOWN FOR REFERENCE IN MULCH ONLY AREAS	PER SPECS	ALL SHRUB AREAS TO RECEIVE MULCH	-	-	-

- NOTES:**
- FOR GENERAL PLANTING NOTES AND PLANTING DETAILS SEE SHEET L-6.01.
  - ALL PLANTING AND IRRIGATION SHALL ABIDE BY THE RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT FACILITY DESIGN STANDARDS AND PLANTING AND IRRIGATION SPECIFICATIONS.
  - SEE CIVIL ENGINEER'S PLANS FOR DEMOLITION AND PROTECT IN PLACE ITEMS.
  - ALL TREES TO BE LOCATED A MINIMUM OF 15' FEET AWAY FROM ALL VERTICAL ELEMENTS INCLUDING: BUILDINGS, ROOF LINES / CANOPIES, FENCES, WALLS, ETC.
  - ALL TREES TO BE LOCATED A MINIMUM OF 10' FEET AWAY FROM ALL EXISTING AND PROPOSED UNDERGROUND UTILITIES.
  - ALL TREE LOCATIONS SHALL BE STAKED PRIOR TO PLANTING FOR REVIEW AND APPROVAL BY DISTRICT REPRESENTATIVE.
  - ALL PLANT MATERIAL (SHRUBS, GROUNDCOVERS) SHALL BE PLANTED MINIMUM 18" AWAY FROM BUILDINGS, WALLS, FENCES, ETC. AREA SHALL BE MULCHED ONLY.
  - ALL SHRUB AND GROUNDCOVER AREAS TO RECEIVE 4" MULCH LAYER PER DISTRICT FACILITY DESIGN STANDARDS AND DETAILS.
  - ALL TREES SHALL NOT HAVE BRANCHES OR LIMBS LOWER THAN 80" WHERE ADJACENT TO PUBLIC WALKWAYS OR SIDEWALKS. CONTRACTOR SHALL LOCATE PROPOSED TREES PRIOR TO PLANTING FOR REVIEW AND APPROVAL BY COLLEGE AND DISTRICT. IF LIMBS INTERFERE WITH 80" CLEARANCE A CERTIFIED ARBORIST SHALL REVIEW PROPOSED PRUNING PRIOR TO LIMBS OR BRANCHES BEING CUT AS TO NOT COMPROMISE THE HEALTH OR STRUCTURE OF THE TREE.
  - ALL TREES LOCATED WITHIN 8' OF ANY HARDSCAPE ELEMENTS (SIDEWALKS, WALLS, D.P.S. FAYERS, CURBS, ETC.) SHALL RECEIVE ROOT BARRIERS. ROOT BARRIER MODEL #UB 24-2 UNIVERSAL BARRIER BY 'DEEP ROOT', CONTACT: (714) 858-0863. ROOT BARRIERS SHALL BE MINIMUM 24" DEEP BY 8' LONG PER TREE. SEE DISTRICT FACILITY DESIGN STANDARDS AND DETAILS.

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**  
 8045 E. Chapman Avenue, Orange, CA 92668

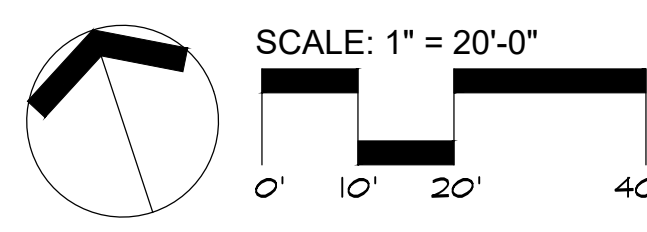


**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM 3	01/17/2023

**DATE ISSUED:** 2018-11-19  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** L-5.01  
**SHEET TITLE:**

**LANDSCAPE  
 PLANTING  
 PLAN**



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STATE OF CALIFORNIA  
**Outdoor Lighting**  
 NRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE  
 CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

Project Name: Santiago Canyon College Campus Entrance Improvement Phase 1 Report Page: Page 1 of 6  
 Project Address: 8045 E. Chapman Avenue, Orange, CA 92869 Date Prepared: 5/4/2022

**A. GENERAL INFORMATION**

01 Project Location (city) Orange 04 Total Illuminated Hardscape Area (ft<sup>2</sup>) 58,020  
 02 Climate Zone 8  
 03 Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):  
 L2-0: Very Low - Undeveloped Parkland  L2-2: Moderate - Rural Areas  L2-4: High - Must be reviewed by CA Energy Commission for Approval  
 L2-1: Low - Developed Parkland  L2-3: Moderately High - Urban Areas

**B. PROJECT SCOPE**

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2) for alterations.  
 My project consists of:  
 New Lighting System Must Comply with Allowances from §140.7.  
 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)?  Yes  No  
 03 % of Existing Luminaires Being Altered<sup>1</sup> 04 Sum Total of Luminaires Being Added or Altered 05 Calculation Method  
 Please proceed to Table F, Outdoor Lighting Fixture Schedule to define the project's luminaires.  
<sup>1</sup> FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

**C. COMPLIANCE RESULTS**

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.  
 Table Instructions: Calculate Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2). Compliance Results

01	02	03	04	05	06	07	08	09
General Hardscape Allowance: §140.7(d)(1) (See Table I)	Per Application §140.7(d)(2) (See Table J)	Sales Frontage §140.7(d)(2) (See Table K)	Ornamental §140.7(d)(2) (See Table L)	Per Specific Area §140.7(d)(2) (See Table M)	OR Existing Power §141.0(b)(2) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 Must be ≥ 08
1,797.35					OR	1,797.35	1,656	COMPLIES
Cutoff Compliance (See Table G for Details)						COMPLIES		
Controls Compliance (See Table H for Details)						COMPLIES		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

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Project Name: Santiago Canyon College Campus Entrance Improvement Phase 1 Report Page: Page 2 of 6  
 Project Address: 8045 E. Chapman Avenue, Orange, CA 92869 Date Prepared: 5/4/2022

**D. EXCEPTIONAL CONDITIONS**

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.  
 No exceptional conditions apply to this project.

**E. ADDITIONAL REMARKS**

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. OUTDOOR LIGHTING FIXTURE SCHEDULE**

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire <sup>1,2</sup>	How Wattage is determined	Total number luminaires <sup>2</sup>	Luminaire Status <sup>3</sup>	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b) <sup>4</sup>	Field Inspector
FX-1	Pedestrian Light <input type="checkbox"/> Linear <input type="checkbox"/> Mfr. Spec <sup>3</sup>	42	Mfr. Spec <sup>3</sup>	5	New		210	NA: <6,200 lumens	Pass Fail
FX-2	Parking Light <input type="checkbox"/> Linear <input type="checkbox"/> Mfr. Spec <sup>3</sup>	120	Mfr. Spec <sup>3</sup>	3	New		360	Yes	
FX-3	Bollard <input type="checkbox"/> Linear <input type="checkbox"/> Mfr. Spec <sup>3</sup>	40	Mfr. Spec <sup>3</sup>	3	New		120	NA: <6,200 lumens	
FX-4	Step Light <input type="checkbox"/> Linear <input type="checkbox"/> Mfr. Spec <sup>3</sup>	6	Mfr. Spec <sup>3</sup>	6	New		36	NA: <6,200 lumens	
	Existing Parking Ltg <input type="checkbox"/> Linear <input type="checkbox"/> Mfr. Spec <sup>3</sup>	120		4	Exist. Reinstalled		480		
	Existing Ped Ltg <input type="checkbox"/> Linear <input type="checkbox"/> Mfr. Spec <sup>3</sup>	42		3	Exist. Reinstalled		126		
	Existing Parking Ltg <input type="checkbox"/> Linear <input type="checkbox"/> Mfr. Spec <sup>3</sup>	120		2	Exist. Remain		240		
	Existing Ped Ltg <input type="checkbox"/> Linear <input type="checkbox"/> Mfr. Spec <sup>3</sup>	42		2	Exist. Remain		84		
						Total Designed Watts		1,656	

<sup>1</sup> NOTES: Selections with a \* require a note in the space below explaining how compliance is achieved.  
 EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA  
**Outdoor Lighting**  
 NRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE  
 CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

Project Name: Santiago Canyon College Campus Entrance Improvement Phase 1 Report Page: Page 3 of 6  
 Project Address: 8045 E. Chapman Avenue, Orange, CA 92869 Date Prepared: 5/4/2022

<sup>1</sup> FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c).  
<sup>2</sup> For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.  
<sup>3</sup> Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.  
<sup>4</sup> Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

**G. CUTOFF REQUIREMENTS (BUG)**

Table Instructions: Complete this table for fixtures of ≥ 6,200 initial luminaire lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12
Name or Item Tag	Complete Luminaire Description	Mounting Height from Property Line <sup>2</sup>	Max Allowable Backlight Rating <sup>3</sup>	Backlight Rating Per Design	Lighting Type	Max Allowable Backlight Rating <sup>3</sup>	Uplight Rating <sup>4</sup>	Mounting Height from Property Line <sup>2</sup>	Max Allowable Glare Rating <sup>3</sup>	Glare Rating Per Design	Field Inspector
FX-2	Parking Light	> 2 MH from property line	No Limit	3	Area Lighting	U0	0	> 2 MH from property line	G3	2	Pass Fail

<sup>1</sup> FOOTNOTES: Mounting Height is labeled MH in this table.  
<sup>2</sup> Authority having jurisdiction may ask for luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b).  
<sup>3</sup> BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex: If Max Allowable is Bug Rating is B4, then B0, B1, B2, B3 and B4 are all compliant.

**H. OUTDOOR LIGHTING CONTROLS**

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.  
 When an option having a \* is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt\* from the dropdown list to indicate not applicable or an exemption.  
 Mandatory Controls  
 Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA  
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 NRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE  
 CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

Project Name: Santiago Canyon College Campus Entrance Improvement Phase 1 Report Page: Page 4 of 6  
 Project Address: 8045 E. Chapman Avenue, Orange, CA 92869 Date Prepared: 5/4/2022

01	02	03	04	05
Area Description	Shut-Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
Sidewalk	Astronomical Timer	Yes	NA: Façade, etc. ≤ 24ft	Pass Fail
Parking Lot	Astronomical Timer	Yes	Yes	

<sup>1</sup> NOTES: Controls with a \* require a note in the space below explaining how compliance is achieved.  
 EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

**I. LIGHTING POWER ALLOWANCE (per §140.7)**

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7.A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

Area Description	Surface Type	Illuminated Area (ft <sup>2</sup> )	Allowed Density (W/ft <sup>2</sup> )	Area Allowance (Watts)	Perimeter Length (ft)	Linear Wattage Allowance (LWA)	Total General AWA + LWA (Watts)	
								02
Sidewalk	Concrete	10,720	0.03	321.6	455	0.4	182	503.6
Street	Asphalt	47,300	0.025	1,182.5	445	0.25	111.25	1,293.75

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 & 3)

Initial Wattage Allowance for Entire Site (Watts):  
 Total General Hardscape Allowance (Watts): 1,797.35

**J. LIGHTING ALLOWANCE: PER APPLICATION**  
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA  
**Outdoor Lighting**  
 NRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE  
 CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

Project Name: Santiago Canyon College Campus Entrance Improvement Phase 1 Report Page: Page 5 of 6  
 Project Address: 8045 E. Chapman Avenue, Orange, CA 92869 Date Prepared: 5/4/2022

**K. LIGHTING ALLOWANCE: SALES FRONTAGE**  
 This Section Does Not Apply

**L. LIGHTING ALLOWANCE: ORNAMENTAL**  
 This Section Does Not Apply

**M. LIGHTING ALLOWANCE: PER SPECIFIC AREA**  
 This Section Does Not Apply

**N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)**  
 This Section Does Not Apply

**O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCC/](https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/)

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTO-01-E - Must be submitted for all buildings.	Pass Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	Pass Fail

**P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/atccp/providers.html>

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	Pass Fail

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA  
**Outdoor Lighting**  
 NRCC-LTO-E (Created 11/19)

CERTIFICATE OF COMPLIANCE  
 CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

Project Name: Santiago Canyon College Campus Entrance Improvement Phase 1 Report Page: Page 6 of 6  
 Project Address: 8045 E. Chapman Avenue, Orange, CA 92869 Date Prepared: 5/4/2022

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: Ed Burth Documentation Author Signature: *Ed Burth*  
 Company: Goss Engineering Signature Date: 5/4/2022  
 Address: 255 East Rincon St., Suite 301 CEA/HERS Certification Identification (if applicable):  
 City/State/Zip: Corona, CA 92879 Phone: (951) 340-1977

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides at occupancy.

Responsible Designer Name: Ed Burth Responsible Designer Signature: *Ed Burth*  
 Company: Goss Engineering Date Signed: 5/4/2022  
 Address: 255 East Rincon St., Suite 301 License: E17083  
 City/State/Zip: Corona, CA 92879 Phone: (951) 340-1977

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT  
 SANTIAGO CANYON COLLEGE  
 CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
 PHASE 1  
 8045 E. Chapman Avenue, Orange, CA 92869



**REVISIONS:**

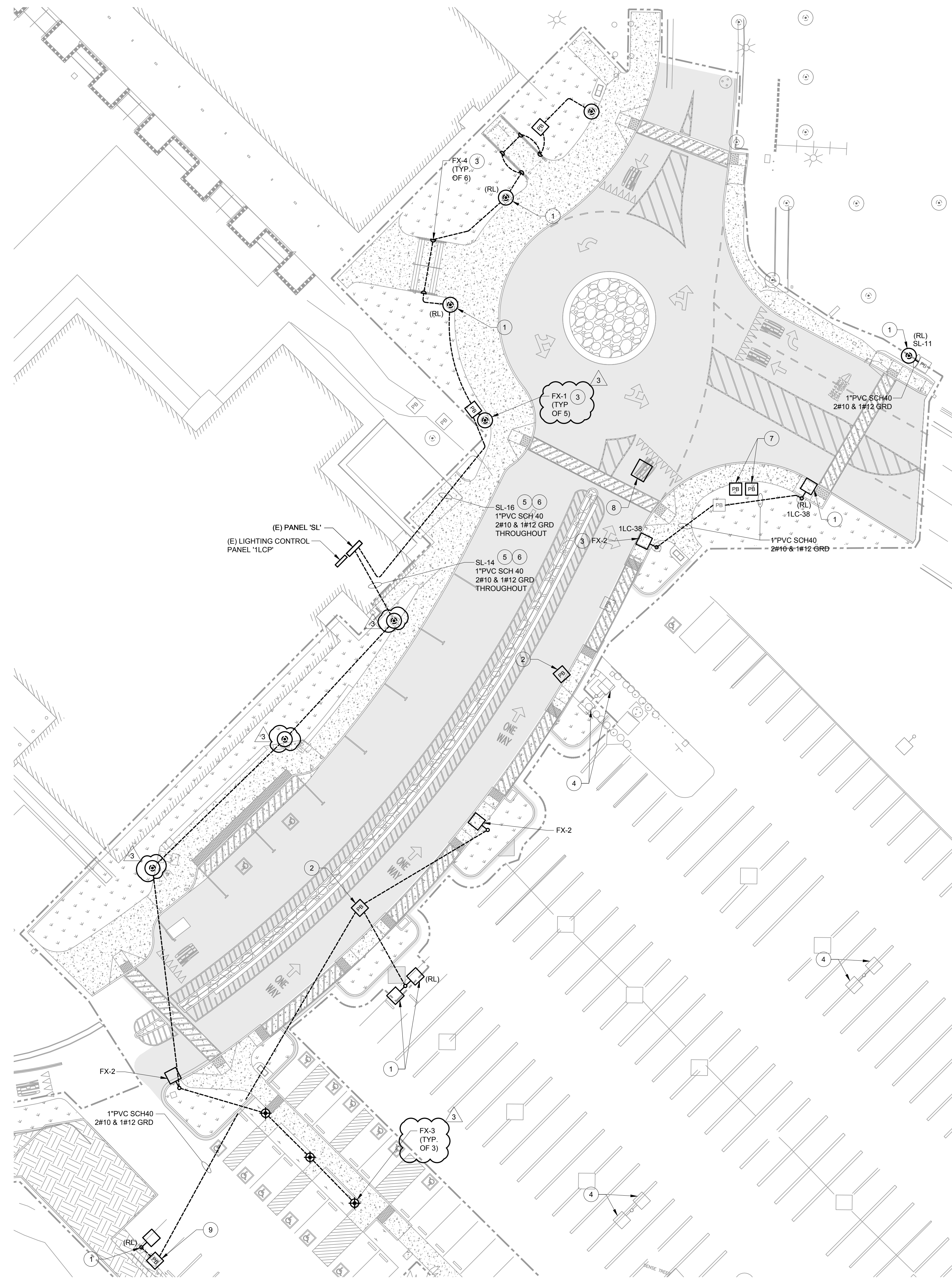
NO.	DESCRIPTION	DATE
3	ADDENDUM 3	1/17/2023

DATE ISSUED: 2023-01-10  
 PROJECT NO: 2018-40167  
 DSA APPLICATION NO: 04-121029  
 SCALE: As indicated  
 SHEET NUMBER: E-002  
 SHEET TITLE:

**TITLE 24**

**GOSS ENGINEERING**  
 255 East Rincon St., Suite 301  
 Corona, CA 92879  
 P 951.340.1977 | F 951.340.1090  
 FILE NO.: 120-06-04





**GENERAL NOTES:**

1. ELECTRICAL ENGINEERING FOR THIS PROJECT IS BASED ON EXISTING DRAWINGS AND A FIELD VISIT OF THE ELECTRICAL SYSTEM. IN CASE OF ANY DISCREPANCIES WITH EXISTING FIELD CONDITIONS, ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT DIFFERENCES AND NOTIFY THE ELECTRICAL ENGINEER FOR POSSIBLE REVISION TO THESE DOCUMENTS.
2. MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS, EQUIPMENT, ETC. REMAINING IN OPERATION.

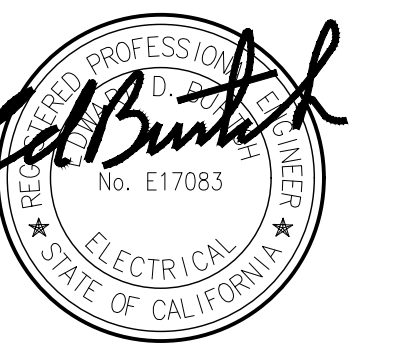
**RECONSTRUCTION NOTES:**

1. NEW LOCATION OF RELOCATED POLE LIGHT. CONNECT TO EXISTING CIRCUIT AND CONTROLS. EXTEND CONDUIT AND WIRING TO MATCH EXISTING. PROVIDE NEW CONCRETE BASE TO MATCH EXISTING.
2. LOWER PULL BOXES TO STREET LEVEL AND REPLACE WITH TRAFFIC RATED COVER AS REQUIRED.
3. NEW LIGHT FIXTURE. CONNECT TO EXISTING CIRCUIT AND CONTROLS.
4. EXISTING LIGHT FIXTURE TO REMAIN AND BE PROTECTED IN PLACE.
5. ROUTE THROUGH EXISTING TIME CLOCK IN LIGHTING CONTROL PANEL '1LCP'.
6. ENTER BUILDING USING 'LB' CONDUIT BODY.
7. NEW LOCATION OF RELOCATED PULL BOX. EXTEND CONDUIT AND WIRING TO NEW LOCATION.
8. EDISON VAULT LOWERED TO STREET LEVEL. ALL WORK TO BE DONE BY SCE.
9. NEW LOCATION OF RELOCATED PULL BOX. EXTEND CONDUIT AND WIRING TO NEW LOCATION. PULL BOX TO BE AS CLOSE TO THE CURB AS POSSIBLE TO AVOID BIOFILTRATION AREA.

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1

8045 E. Chapman Avenue, Orange, CA 92869



**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM 3	1/17/2023

DATE ISSUED: 2023-01-10

PROJECT NO: 2018-40167

DSA APPLICATION NO: 04-121029

SCALE: As indicated

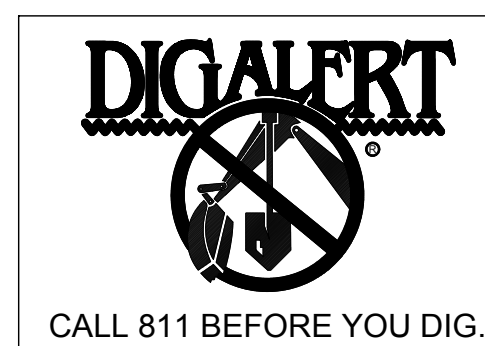
SHEET NUMBER: **E-102**

SHEET TITLE:

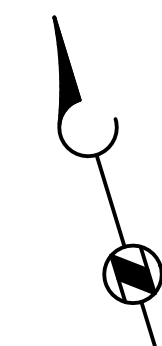
**RECONSTRUCTION  
POWER  
AND  
LIGHTING  
PLAN**



255 East Rincon St., Suite 301  
Corona, CA 92879  
P 951.340.1977 | F 951.340.1090  
FILE NO.: 120-06-04

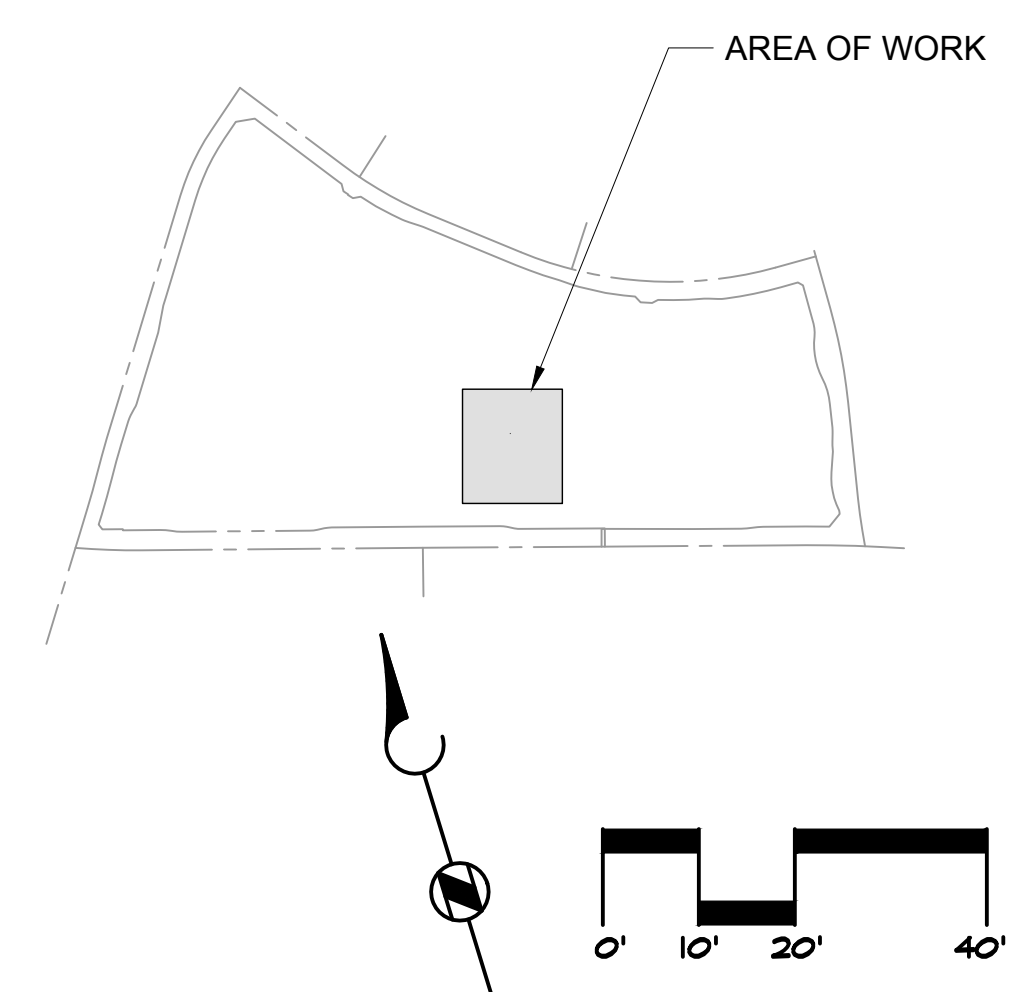


LEGEND:  
(RL) RELOCATED  
— EXISTING  
— NEW



RECONSTRUCTION POWER AND LIGHTING PLAN

SCALE 1" = 20'-0" 1



KEY PLAN

SCALE N.T.S. 0





PHOTOMETRIC STATISTICS			
DESCRIPTION	MIN.	MAX.	AVERAGE
SITE LIGHTING	0.1 fc	13.6 fc	3.2 fc

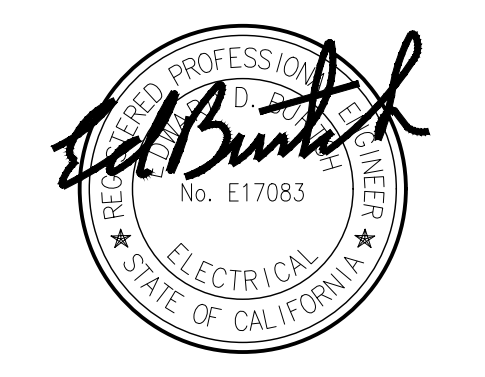
**GENERAL NOTES:**

1. CALCULATION POINTS ARE 5' X 5' TYPICAL ON CENTER SPACING AT 0'-0" AFF.
2. TABLES, EQUIPMENT, PARTITIONS, STAIRS, SLOPE AND OTHER OBSTRUCTIONS ARE NOT INCLUDED IN THE CALCULATION RESULTS UNLESS DRAWN IN MODEL.
3. THE LIGHT FIXTURE USED FOR THE PHOTOMETRIC STUDY MAY VARY FROM THE LIGHT FIXTURE SCHEDULE ON SHEET E-601. DUE TO THE AVAILABILITY OF IES FILES. REFER TO SHEET E-601 FOR LIGHT FIXTURE SCHEDULE FOR THE COMPLETE SPECIFICATION AND MODEL NUMBER.
4. LUMINAIRE DATA IS OBTAINED ACCORDING TO IES PROCEDURES UNDER LABORATORY CONDITIONS. FIELD RESULTS MAY DIFFER FROM COMPUTER MODEL DUE TO MANY FACTORS INCLUDING BUT NOT LIMITED TO AMBIENT TEMPERATURE, LINE VOLTAGE VARIATION, INSTALLATION, REFLECTANCE AND OTHER SITE SPECIFIC CONDITIONS.
5. THIS LIGHTING PHOTOMETRIC STUDY IS NOT A SUBSTITUTE FOR AN INDEPENDENT ENGINEERING ANALYSIS AND THE COORDINATION OF LIGHTING SYSTEM SUITABILITY, FIXTURE PLACEMENT, FIXTURE SELECTION AND SAFETY TO COMPLY WITH LOCAL BUILDING CODES AND PROJECT PROGRAMMING.

RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT

SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1

8045 E. Chapman Avenue, Orange, CA 92869



**REVISIONS:**

DESCRIPTION	DATE
3. ADDENDUM 3	1/17/2023

DATE ISSUED: 2023-01-10

PROJECT NO: 2018-40167

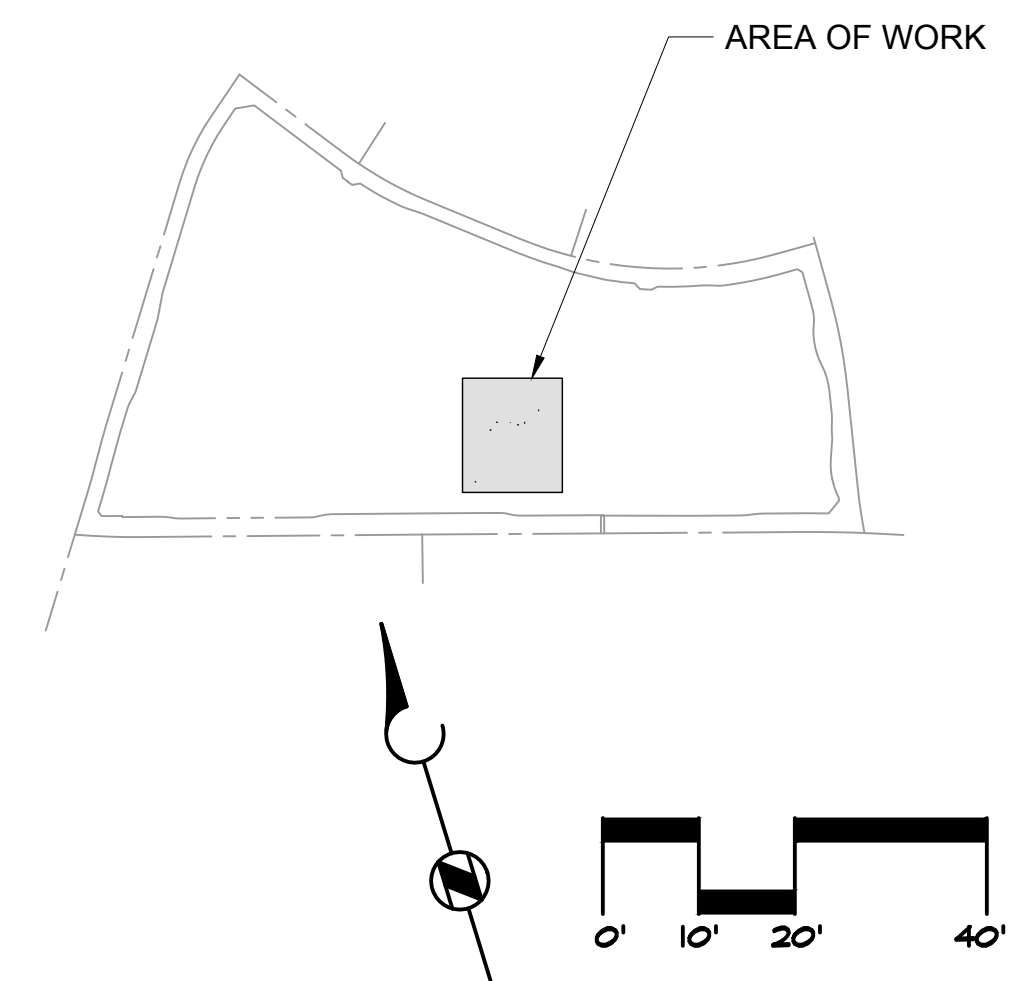
DSA APPLICATION NO: 04-121029

SCALE: As indicated

SHEET NUMBER: **E-104**

SHEET TITLE:

**PHOTOMETRIC PLAN**

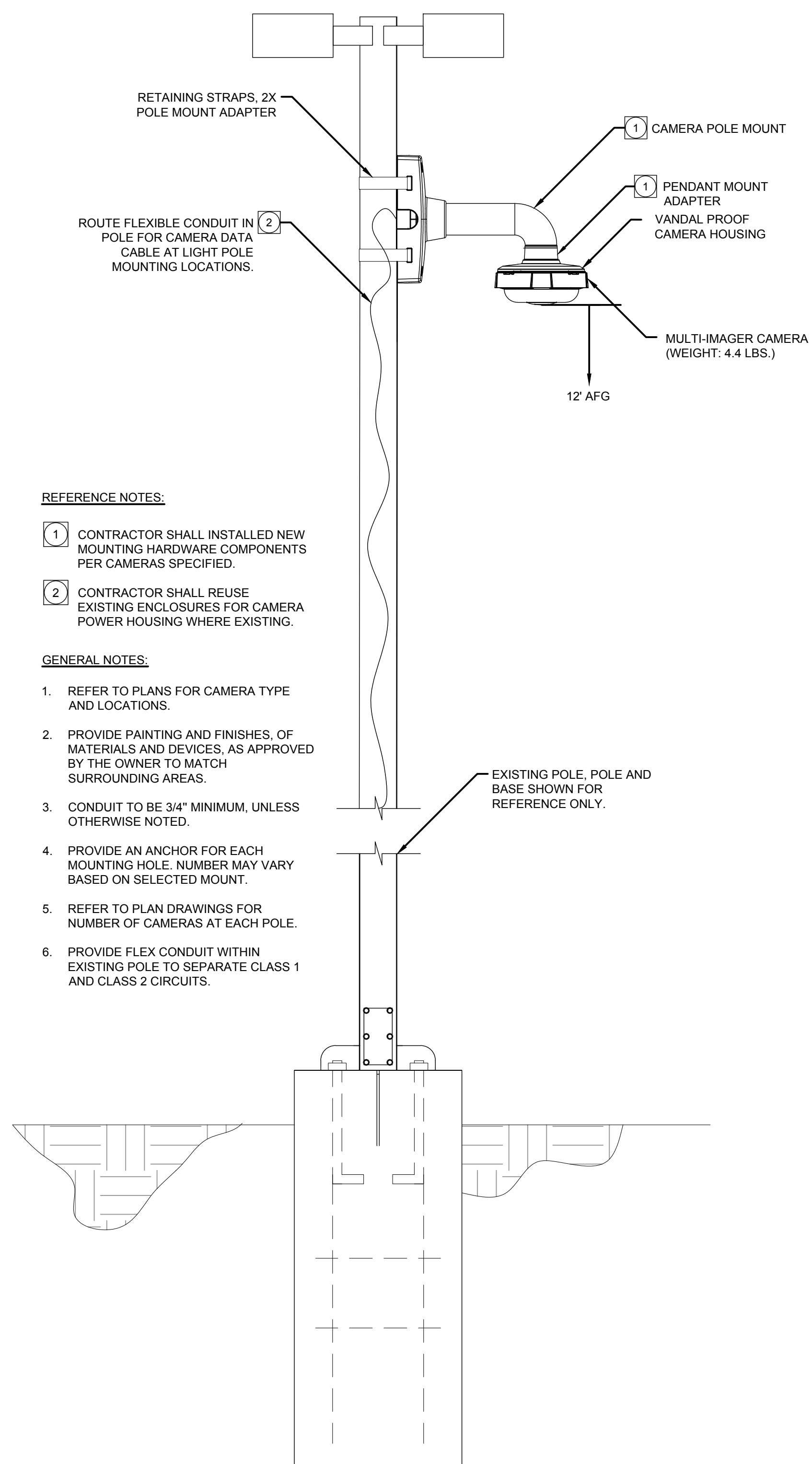


PHOTOMETRIC PLAN SCALE 1" = 20'-0" 1

KEY PLAN SCALE N.T.S. 0

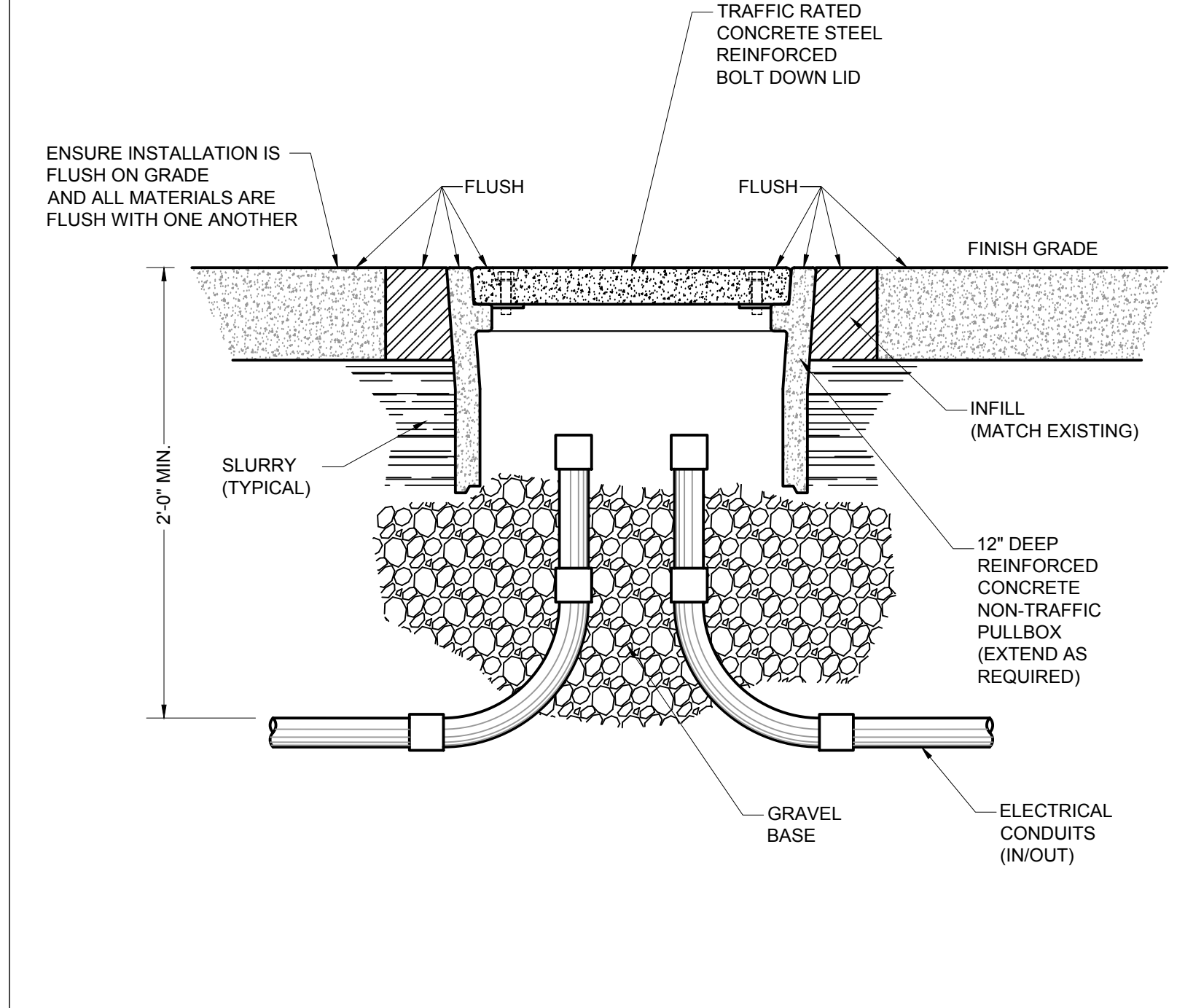
**GOSS ENGINEERING**  
255 East Rincon St., Suite 301  
Corona, CA 92879  
P 951.340.1977 | F 951.340.1090  
FILE NO.: 120-06-04



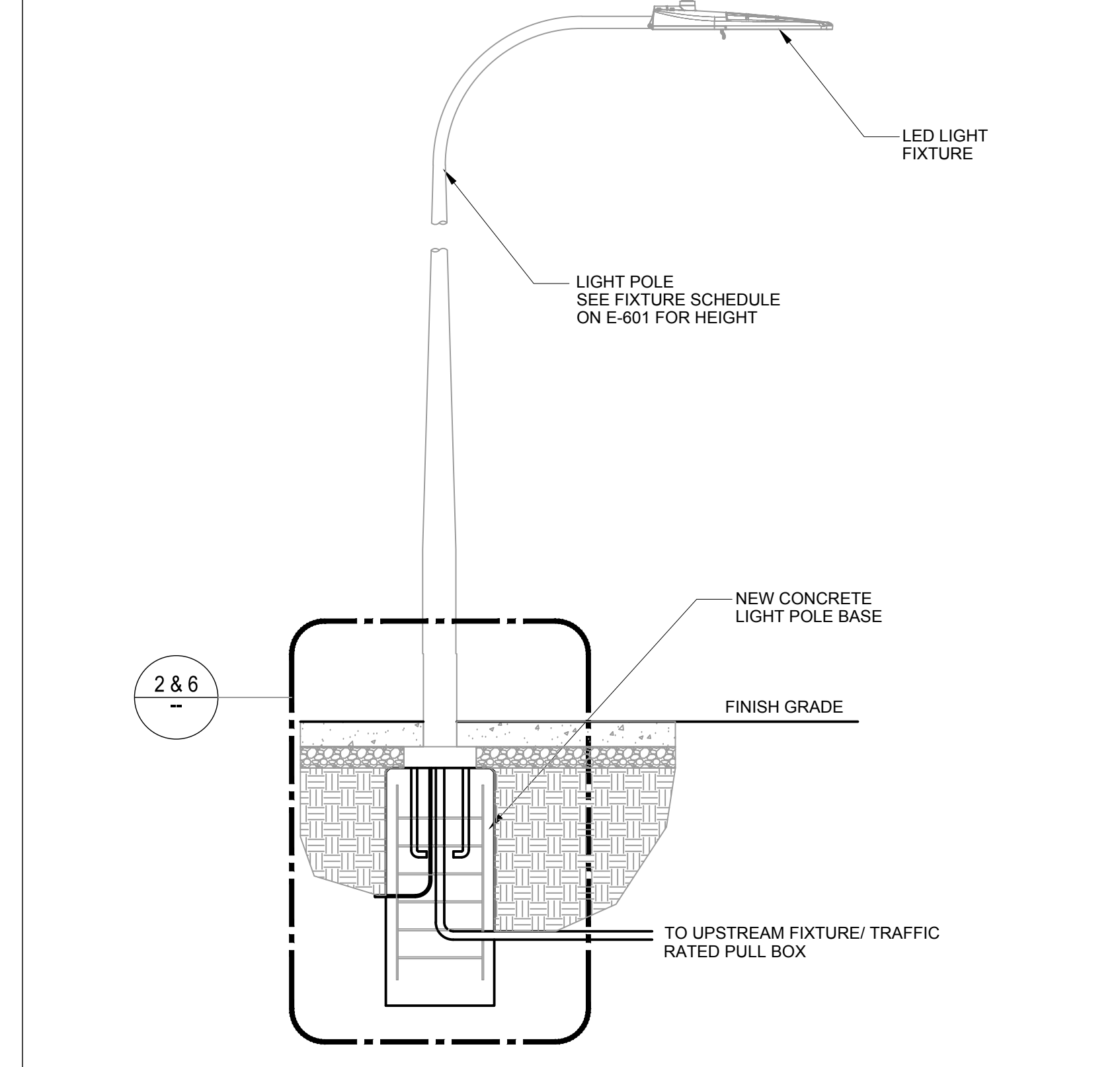


- REFERENCE NOTES:**
- CONTRACTOR SHALL INSTALLED NEW MOUNTING HARDWARE COMPONENTS PER CAMERAS SPECIFIED.
  - CONTRACTOR SHALL REUSE EXISTING ENCLOSURES FOR CAMERA POWER HOUSING WHERE EXISTING.
- GENERAL NOTES:**
- REFER TO PLANS FOR CAMERA TYPE AND LOCATIONS.
  - PROVIDE PAINTING AND FINISHES, OF MATERIALS AND DEVICES, AS APPROVED BY THE OWNER TO MATCH SURROUNDING AREAS.
  - CONDUIT TO BE 3/4" MINIMUM, UNLESS OTHERWISE NOTED.
  - PROVIDE AN ANCHOR FOR EACH MOUNTING HOLE. NUMBER MAY VARY BASED ON SELECTED MOUNT.
  - REFER TO PLAN DRAWINGS FOR NUMBER OF CAMERAS AT EACH POLE.
  - PROVIDE FLEX CONDUIT WITHIN EXISTING POLE TO SEPARATE CLASS 1 AND CLASS 2 CIRCUITS.

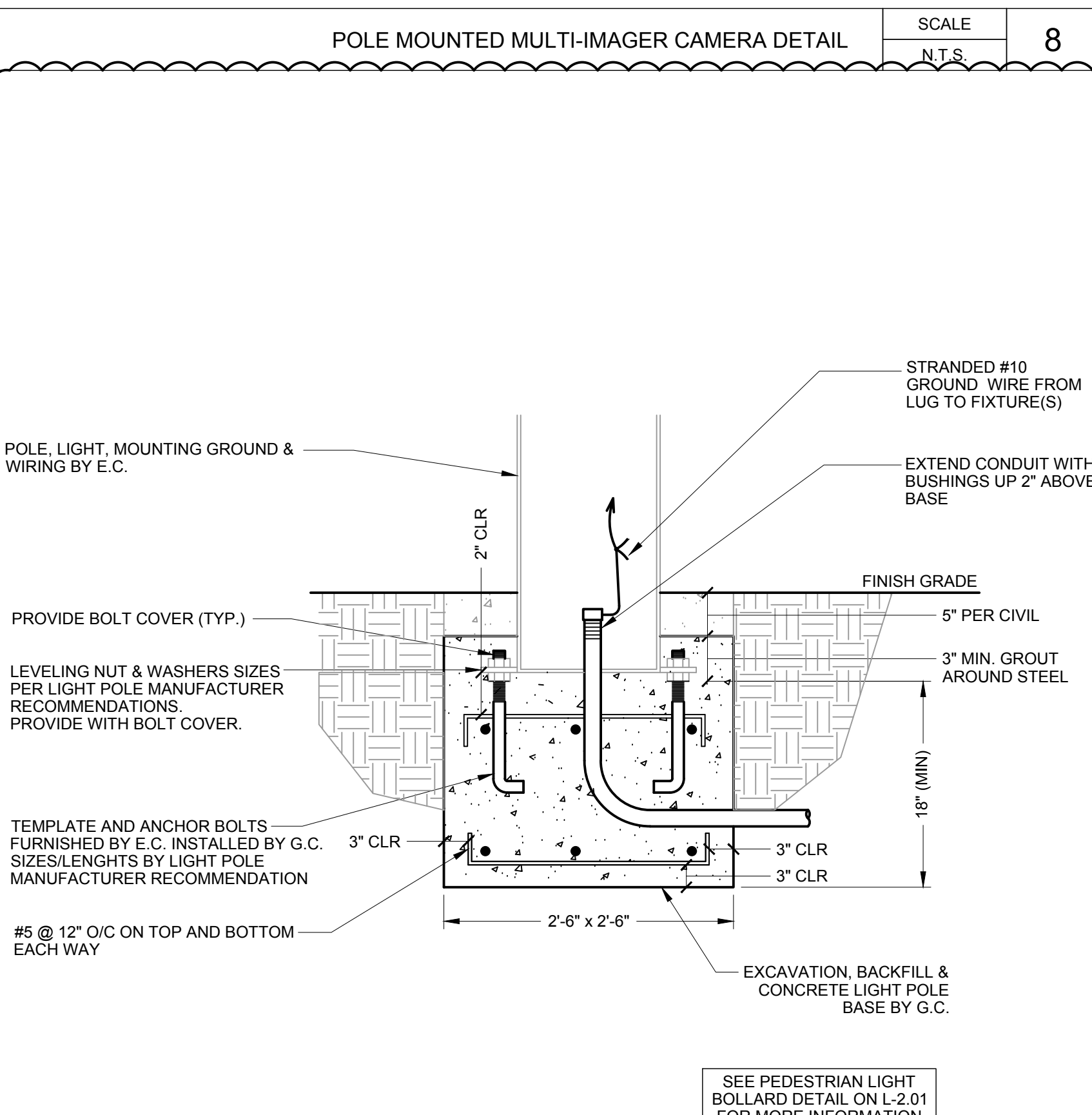
SCALE  
N.T.S. 10



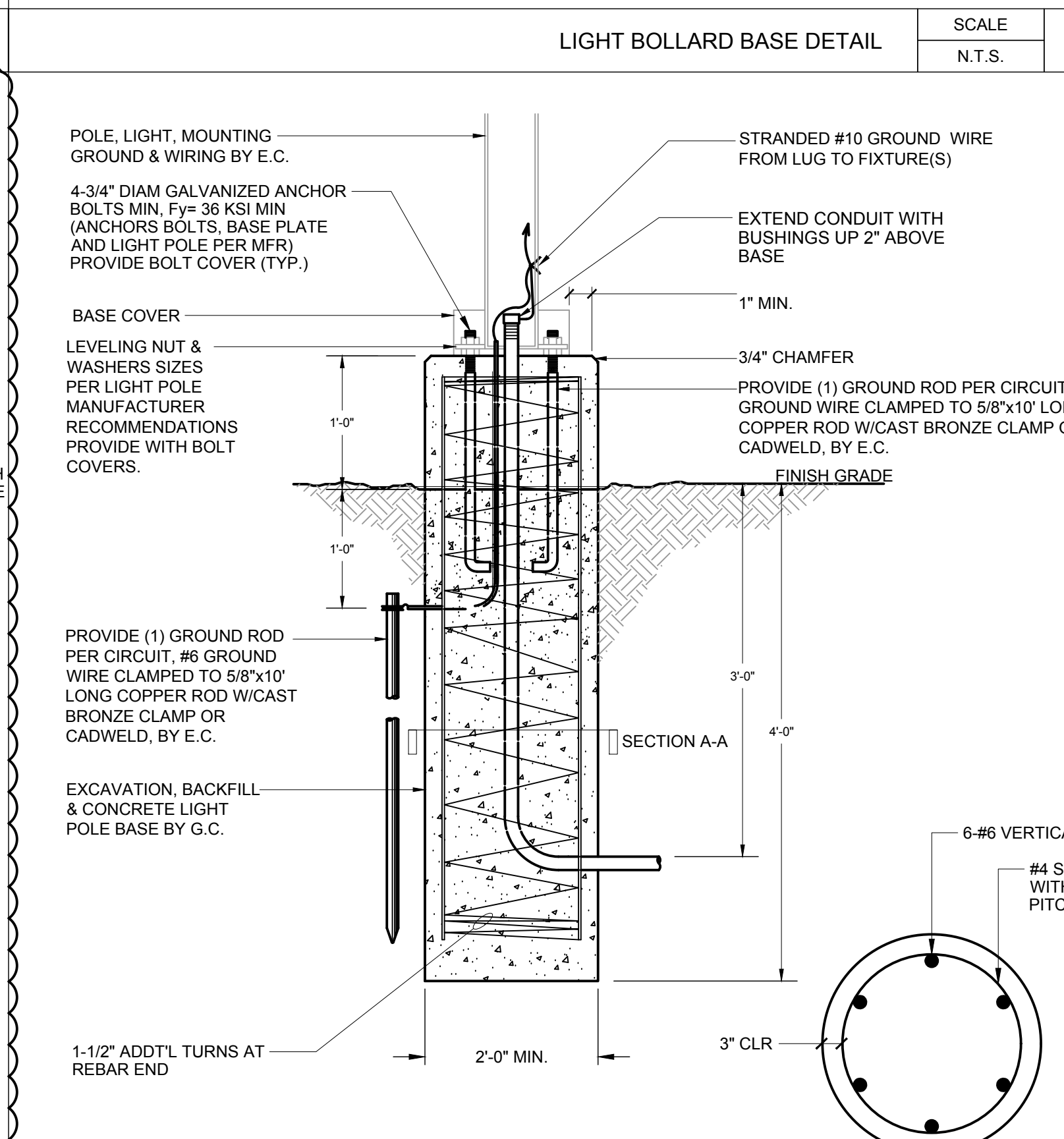
UNDERGROUND PULLBOX DETAIL  
SCALE  
N.T.S. 4



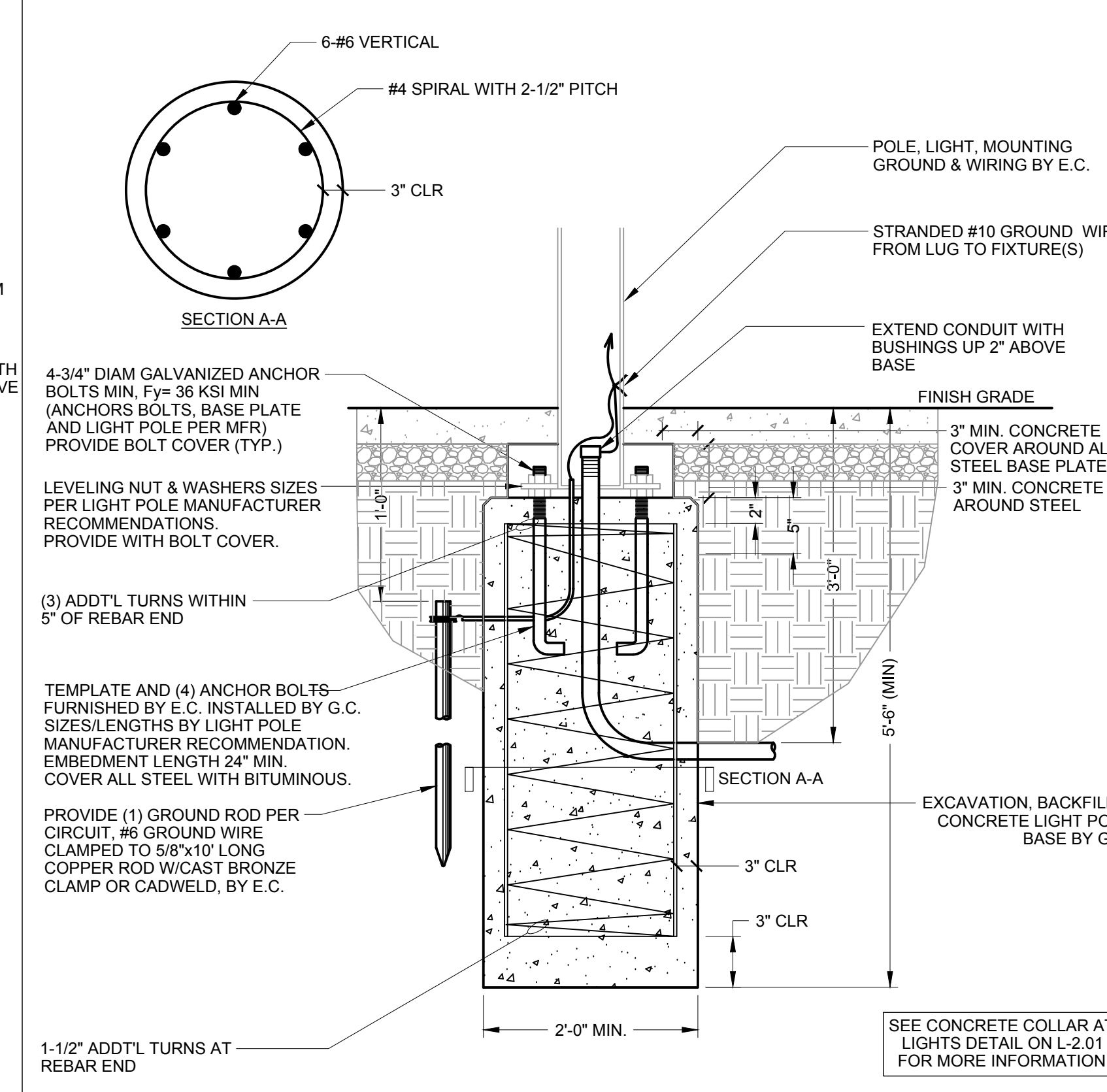
LIGHT POLE DETAIL  
SCALE  
N.T.S. 1



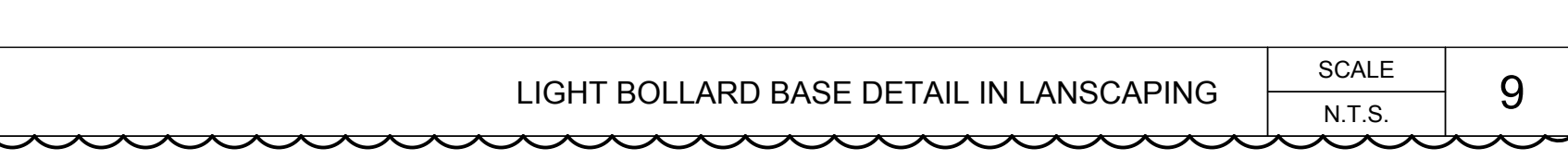
POLE MOUNTED MULTI-IMAGER CAMERA DETAIL  
SCALE  
N.T.S. 8



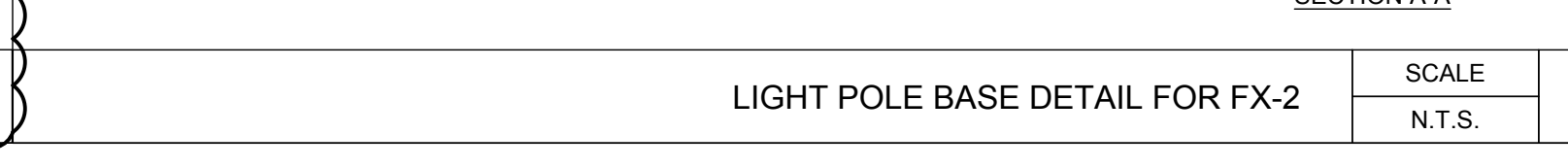
LIGHT BOLLARD BASE DETAIL  
SCALE  
N.T.S. 5



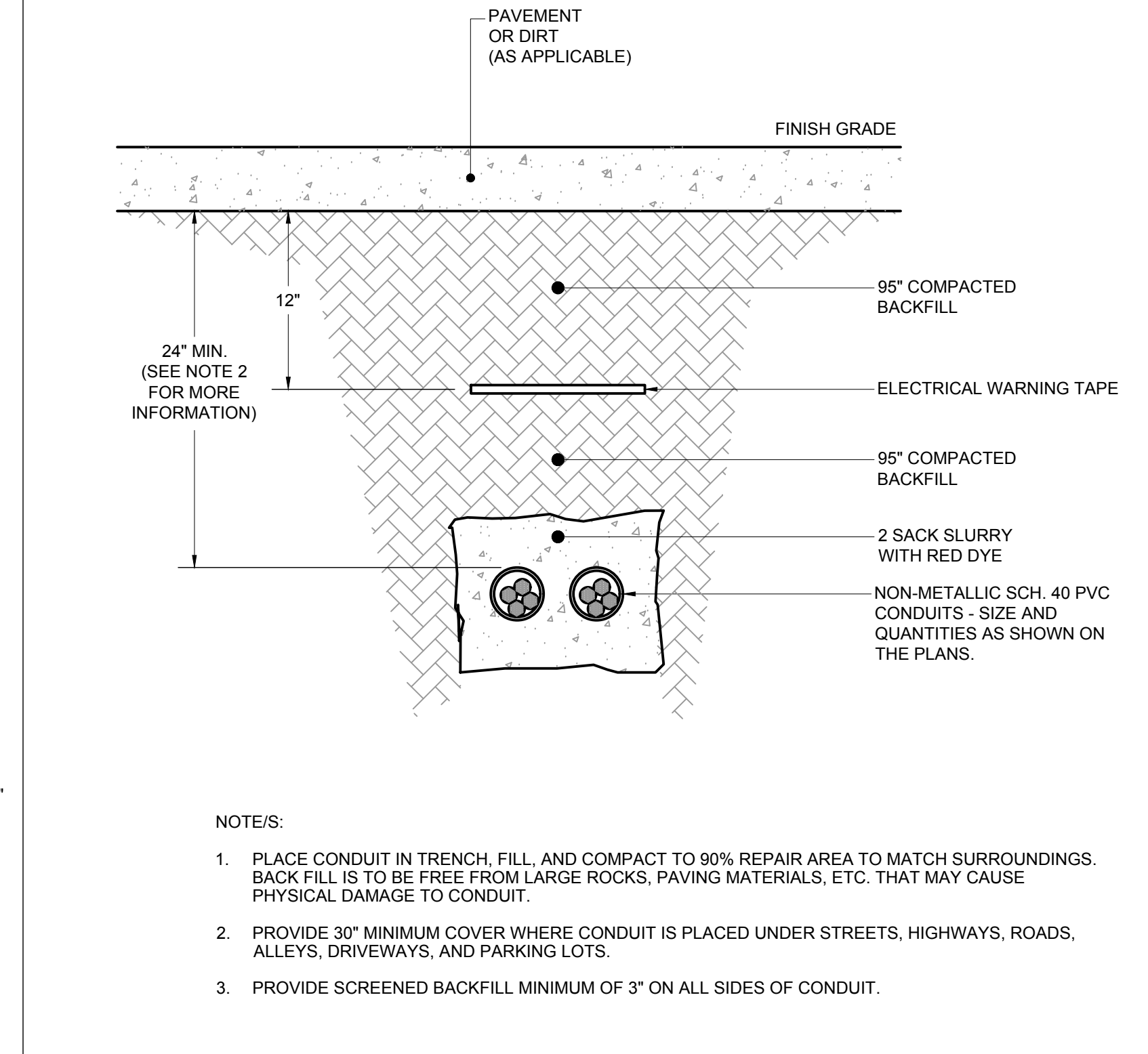
LIGHT POLE BASE DETAIL FOR FX-1  
SCALE  
N.T.S. 2



LIGHT BOLLARD BASE DETAIL IN LANDSCAPING  
SCALE  
N.T.S. 9



LIGHT POLE BASE DETAIL FOR FX-2  
SCALE  
N.T.S. 6

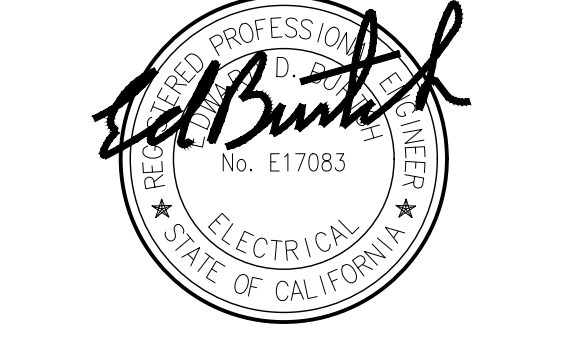


CONDUIT BURIAL DETAIL  
SCALE  
N.T.S. 3

SCALE  
N.T.S. 11

SCALE  
N.T.S. 12

**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**  
  
**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**  
 8045 E. Chapman Avenue, Orange, CA 92869



**REVISIONS:**

NO.	DESCRIPTION	DATE
3	ADDENDUM 3	1/17/2023

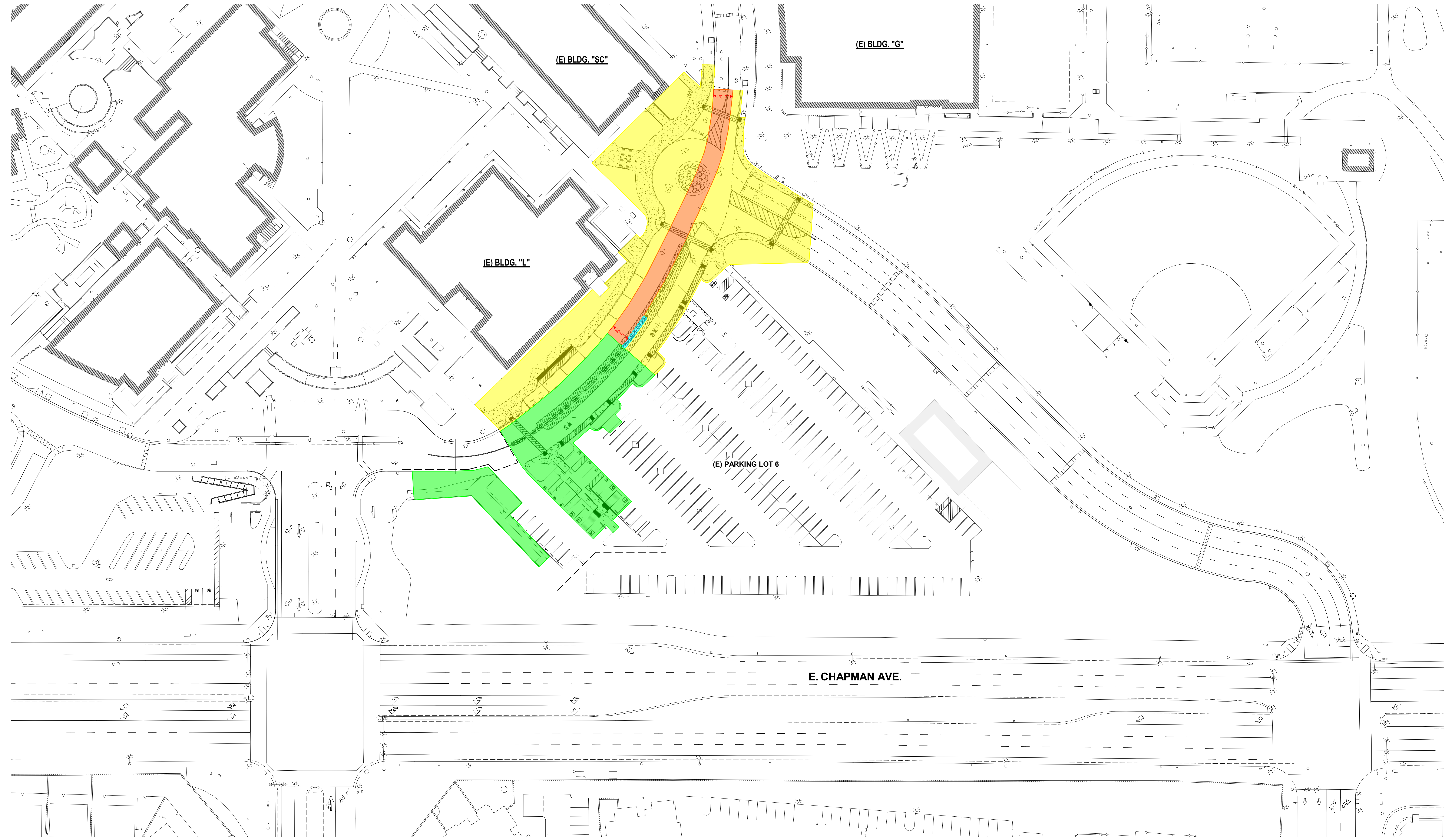
**DATE ISSUED:** 2023-01-10  
**PROJECT NO:** 2018-40167  
**DSA APPLICATION NO:** 04-121029  
**SCALE:** As indicated  
**SHEET NUMBER:** E-501  
**SHEET TITLE:**

**DETAILS**

**GOSS ENGINEERING**  
 255 East Rincon St., Suite 301  
 Corona, CA 92879  
 P 951.340.1977 | F 951.340.1090  
 FILE NO.: 120-06-04

- NOTE/S:**
- PLACE CONDUIT IN TRENCH, FILL, AND COMPACT TO 90% REPAIR AREA TO MATCH SURROUNDINGS. BACK FILL IS TO BE FREE FROM LARGE ROCKS, PAVING MATERIALS, ETC. THAT MAY CAUSE PHYSICAL DAMAGE TO CONDUIT.
  - PROVIDE 30" MINIMUM COVER WHERE CONDUIT IS PLACED UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.
  - PROVIDE SCREENED BACKFILL MINIMUM OF 3" ON ALL SIDES OF CONDUIT.





**OWNER: RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**

**PROJECT NAME: SANTIAGO CANYON COLLEGE  
CAMPUS ENTRANCE IMPROVEMENTS PROJECT -  
PHASE 1**

**PROJECT ADDRESS: 8045 E. Chapman Avenue, Orange, CA 92669**

**REVISIONS:**

DESCRIPTION	DATE

**PROJECT NO:** 2018-40167

**DATE ISSUED:** 2018-11-19

**SCALE:** As indicated

**SHEET NUMBER:** GEN-4

**SHEET TITLE:**

**CONSTRUCTION LOGISTICS SITE PLAN**

**OVERALL LOGISTICS PLAN 1" = 40'-0" 1**

- CRITERIA FOCAL POINTS:**
1. PROVIDE CONTINUOUS VEHICULAR FLOW.
  2. PEDESTRIAN ACCESS TO AND FROM BUILDINGS WITH ACCESSIBILITY SIGNAGE FOR ACCESS ROUTE FROM PARKING LOT.
  3. CONSTRUCTION LOGISTICS WILL NEED TO BE PHASE BASED.
  4. WILL NEED TO PROVIDE 20-FT. FIRE LANE ACCESS / EMERGENCY AS REQUIRED DURING CONSTRUCTION.
  5. PROVIDE STAGING LOGISTICS AREA BASED ON PHASING AREA.
  6. WILL NEED TO GET APPROVAL FROM AFFECTED ADJACENT BUILDING GROUPS, INCLUDING CAMPUS SAFETY AND SECURITY AND M&O.
  7. CONSTRUCTION SCHEDULE SHOULD BE BASED AND COORDINATED WITH CAMPUS SCHOOL SCHEDULE, HOLIDAYS AND BREAKS.

- LOGISTICS NOTES:**
1. PROVIDE CONSTRUCTION LOGISTICS AND SITE EROSION CONTROL PLAN FOR REVIEW AND APPROVAL.
  2. PROVIDE REMOVABLE CONSTRUCTION FENCING WITH SWINGOUT DOOR FOR STAGING AREA ENTRANCE AND WITH SCREENS PRIOR TO COMMENCEMENT OF DEMOLITION AND CONSTRUCTION WORK. CONTRACTOR TO ADJUST FENCING AS NECESSARY DURING CONSTRUCTION.
  3. PROVIDE TWO FLAGMEN FOR CONTROL TRAFFIC DURING INSTALLATION OF CONSTRUCTION FENCING.
  4. PROVIDE AT LEAST 30 STANDARD INDUSTRY CONSTRUCTION AND TRAFFIC SIGNS (FREESTANDING OR FENCE MOUNTED - FULL SIZE) FOR REVIEW AND APPROVAL DURING THE DURATION OF PHASES 1 AND 2 OF CONSTRUCTION.
  5. PROVIDE LOGISTICS PLAN SHOWING THE CONSTRUCTION AND TRAFFIC SIGNS FOR REVIEW AND APPROVAL. CONSTRUCTION AND TRAFFIC SIGNS CONTENTS TO BE DETERMINED BY DISTRICT'S REPRESENTATIVE.
  6. CONTRACTOR TO PROVIDE TEMPORARY BASE AND ASPHALT WITH TEMPORARY STRIPING AS NEEDED IN THE EVENT THE USABLE EXISTING ROAD IS LESS THAN 20-FT. WIDE. THIS WILL INCLUDE A TEMPORARY COMPACTION OF THE GRADE IN PLACE (6-9 INCHES) WITH 6 INCHES OF C.A.B. AND 3 INCHES OF ASPHALT OVER. THIS WILL BE REMOVED ONCE THE PHASE IS OVER - REFER TO SPECIFICATION SECTION 01 50 00. 3.03 - J - 2).

- PHASE 1A
- PHASE 1B
- PHASE 2A
- PHASE 2B

**CONSTRUCTION LOGISTICS CRITERIA**

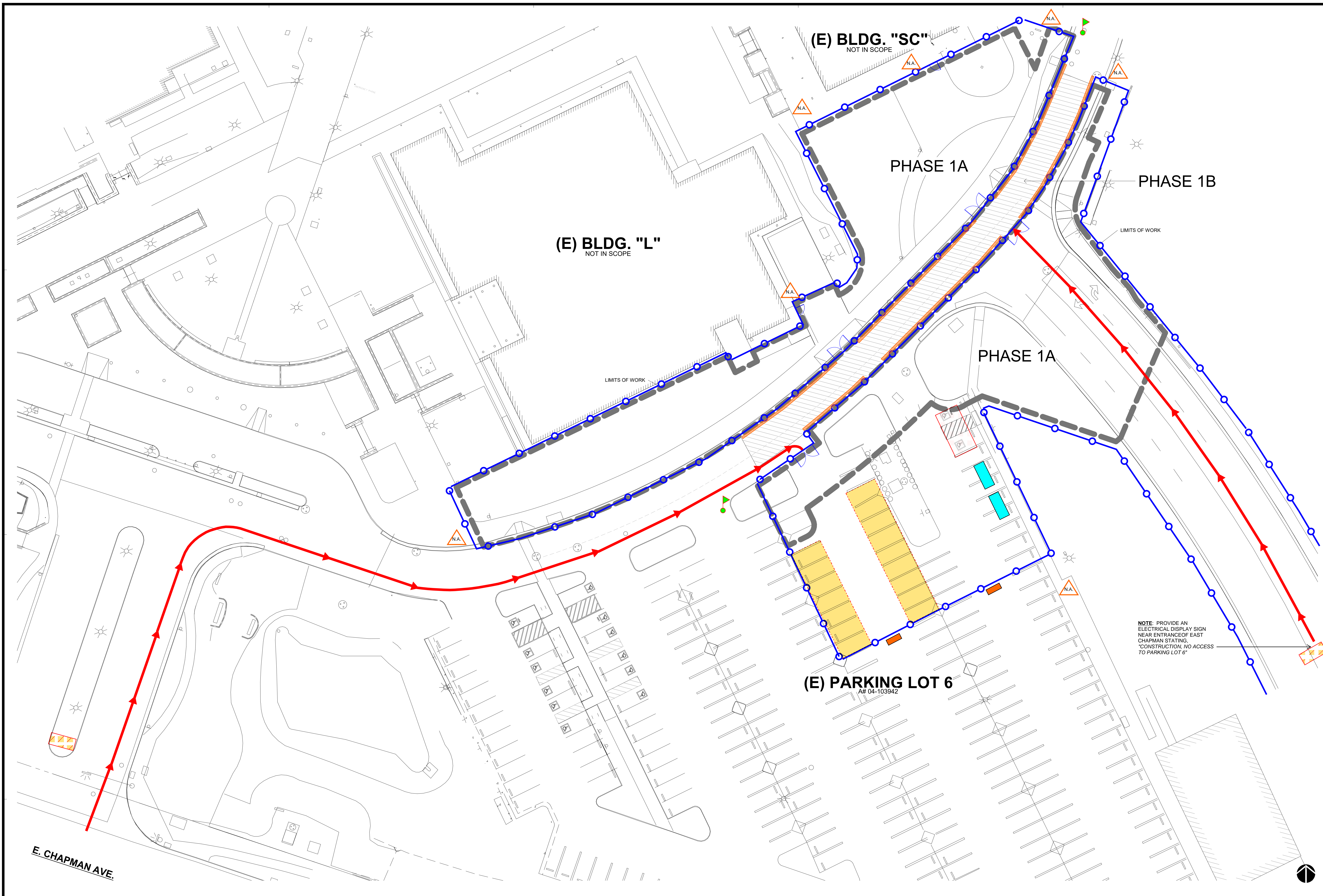
**CONSTRUCTION LOGISTICS NOTES**

**CONSTRUCTION LOGISTICS LEGEND**



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REVISIONS:

DESCRIPTION	DATE

DATE ISSUED: 2018-11-19

PROJECT NO: 2018-40167

DSA APPLICATION NO: 04-121029

SCALE: As indicated

SHEET NUMBER: **GEN-5**

SHEET TITLE:

**CONSTRUCTION LOGISTICS PLAN - PHASE 1**

**CONSTRUCTION LOGISTICS PLAN - PHASE 1** 1" = 20'-0" 1

- CRITERIA FOCAL POINTS:**
1. PROVIDE CONTINUOUS VEHICULAR FLOW.
  2. PEDESTRIAN ACCESS TO AND FROM BUILDINGS WITH ACCESSIBILITY SIGNAGE FOR ACCESS ROUTE FROM PARKING LOT.
  3. CONSTRUCTION LOGISTICS WILL NEED TO BE PHASE BASED.
  4. WILL NEED TO PROVIDE 20-FT. FIRE LANE ACCESS / EMERGENCY AS REQUIRED DURING CONSTRUCTION.
  5. PROVIDE STAGING LOGISTICS AREA BASED ON PHASING AREA.
  6. WILL NEED TO GET APPROVAL FROM AFFECTED ADJACENT BUILDING GROUPS, INCLUDING CAMPUS SAFETY AND SECURITY AND M&O.
  7. CONSTRUCTION SCHEDULE SHOULD BE BASED AND COORDINATED WITH CAMPUS SCHOOL SCHEDULE, HOLIDAYS AND BREAKS.

- LOGISTICS NOTES:**
1. PROVIDE CONSTRUCTION LOGISTICS AND SITE EROSION CONTROL PLAN FOR REVIEW AND APPROVAL.
  2. PROVIDE REMOVABLE CONSTRUCTION FENCING WITH SWINGOUT DOOR FOR STAGING AREA ENTRANCE AND WITH SCREENS PRIOR TO COMMENCEMENT OF DEMOLITION AND CONSTRUCTION WORK. CONTRACTOR TO ADJUST FENCING AS NECESSARY DURING CONSTRUCTION.
  3. PROVIDE TWO FLAGMEN FOR CONTROL TRAFFIC DURING INSTALLATION OF CONSTRUCTION FENCING.
  4. PROVIDE AT LEAST 30 STANDARD INDUSTRY CONSTRUCTION AND TRAFFIC SIGNS (FREESTANDING OR FENCE MOUNTED - FULL SIZE) FOR REVIEW AND APPROVAL DURING THE DURATION OF PHASES 1 AND 2 OF CONSTRUCTION.
  5. PROVIDE LOGISTICS PLAN SHOWING THE CONSTRUCTION AND TRAFFIC SIGNS FOR REVIEW AND APPROVAL. CONSTRUCTION AND TRAFFIC SIGNS CONTENTS TO BE DETERMINED BY DISTRICT'S REPRESENTATIVE.
  6. CONTRACTOR TO PROVIDE TEMPORARY BASE AND ASPHALT WITH TEMPORARY STRIPING AS NEEDED IN THE EVENT THE USABLE EXISTING ROAD IS LESS THAN 20-FT. WIDE. THIS WILL INCLUDE A TEMPORARY COMPACTION OF THE GRADE IN PLACE (6-9 INCHES) WITH 6-INCHES OF C.A.B. AND 3-INCHES OF ASPHALT OVER. THIS WILL BE REMOVED ONCE THE PHASE IS OVER - REFER TO SPECIFICATION SECTION 01 50 00.3.03 - J - 2).

**CONSTRUCTION LOGISTICS LEGEND**

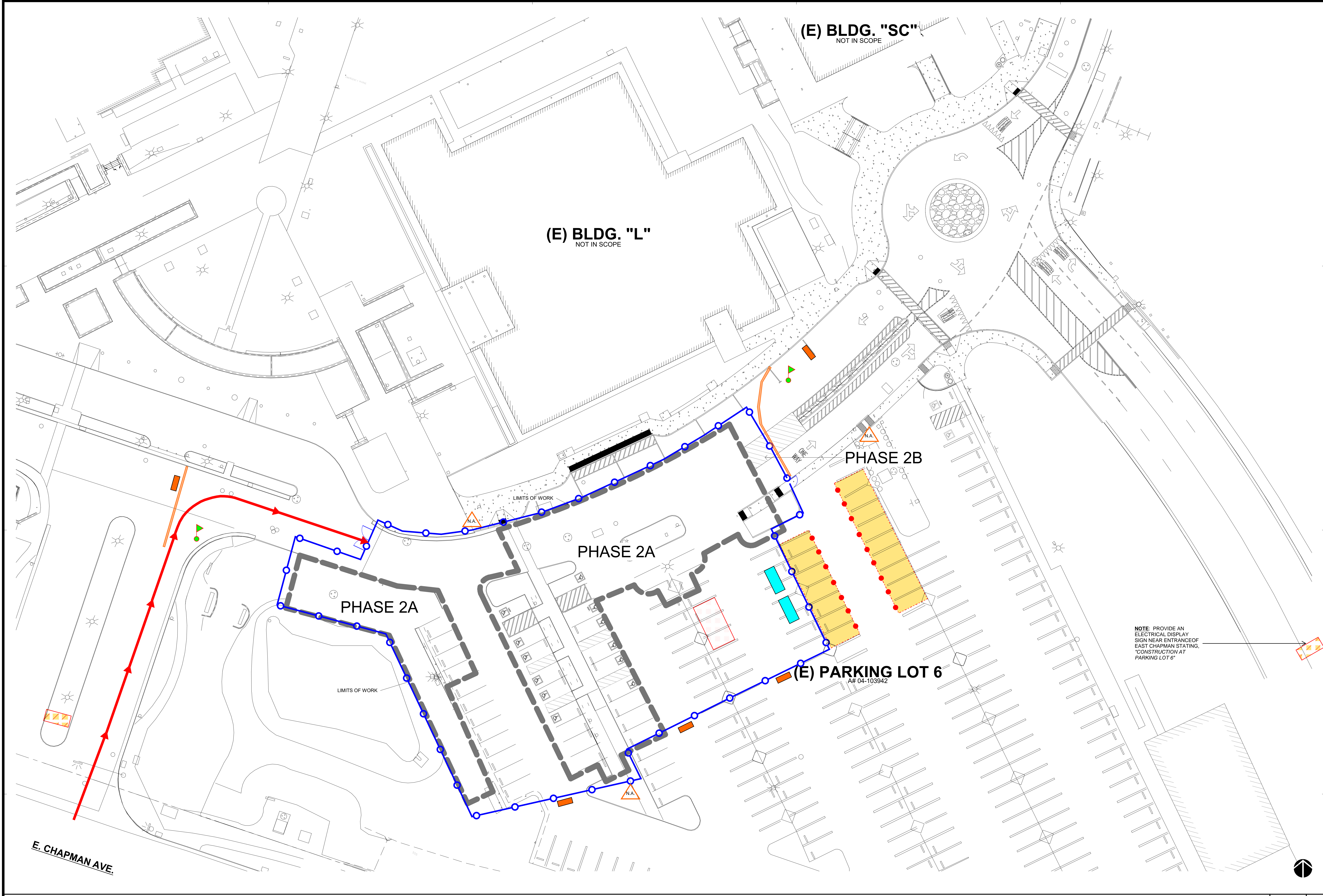
- APPROXIMATE TEMPORARY (REMOVAL) FENCING W/ PRIVACY SCREEN. CONTRACTOR TO DETERMINE FINAL LOCATION
- TEMPORARY (REMOVAL) VEHICLE ACCESS DOOR FENCING W/ PRIVACY SCREEN
- TEMPORARY (REMOVAL) PEDESTRIAN SINGLE ACCESS DOOR FENCING W/ PRIVACY SCREEN
- CONSTRUCTION DUMPSTER BIN
- DESIGNATED PARKING FOR ALL CONSTRUCTION PERSONNEL
- PROVIDE FLAGMAN AT BOTH SIDES DURING DELIVERY OF EQUIPMENT AT ALL TIMES, TYP. U.N.O.
- INSTALL CONSTRUCTION SIGN(S) FOR PEDESTRIANS ("CONSTRUCTION WORK AHEAD" & "DEAD END AHEAD")
- TEMPORARY CONSTRUCTION VEHICULAR / DELIVERY ACCESS ROUTE TO PROJECT FOR CONTRACTOR
- VEHICLE BARRIER W/ VEHICLE DETOUR SIGN DIRECTING TRAFFIC TO TEMPORARY ALTERNATE ROUTE
- CONSTRUCTION LAYDOWN AREA
- CONSTRUCTION PORTA POTTY
- ELECTRICAL DISPLAY SIGN STATING TEMPORARY CONSTRUCTION AT PARKING LOT 6
- TRAFFIC CONES W/ DOUBLE REFLECTIVE STRIPES W/ NO PARKING SIGNAGE, TYP.
- TEMPORARY PLASTIC K-RAIL FILLED W/ WATER

**SVA ARCHITECTS**

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**RANCHO SANTIAGO COMMUNITY COLLEGE DISTRICT**

**SANTIAGO CANYON COLLEGE**  
**CAMPUS ENTRANCE IMPROVEMENTS PROJECT -**  
**PHASE 1**

8045 E. Chapman Avenue, Orange, CA 92669

**REVISIONS:**

DESCRIPTION	DATE

**DATE ISSUED:** 2018-11-19

**PROJECT NO:** 2018-40167

**DSA APPLICATION NO:** 04-121029

**SCALE:** As indicated

**SHEET NUMBER:** **GEN-6**

**SHEET TITLE:**

**CONSTRUCTION LOGISTICS PLAN - PHASE 2**

- CRITERIA FOCAL POINTS:**
1. PROVIDE CONTINUOUS VEHICULAR FLOW.
  2. PEDESTRIAN ACCESS TO AND FROM BUILDINGS WITH ACCESSIBILITY SIGNAGE FOR ACCESS ROUTE FROM PARKING LOT. CONSTRUCTION LOGISTICS WILL NEED TO BE PHASE BASED.
  3. WILL NEED TO PROVIDE 20-FT. FIRE LANE ACCESS / EMERGENCY AS REQUIRED DURING CONSTRUCTION.
  4. PROVIDE STAGING LOGISTICS AREA BASED ON PHASING AREA.
  5. WILL NEED TO GET APPROVAL FROM AFFECTED ADJACENT BUILDING GROUPS, INCLUDING CAMPUS SAFETY AND SECURITY AND M&O.
  6. CONSTRUCTION SCHEDULE SHOULD BE BASED AND COORDINATED WITH CAMPUS SCHOOL SCHEDULE, HOLIDAYS AND BREAKS.

- LOGISTICS NOTES:**
1. PROVIDE CONSTRUCTION LOGISTICS AND SITE EROSION CONTROL PLAN FOR REVIEW AND APPROVAL.
  2. PROVIDE REMOVABLE CONSTRUCTION FENCING WITH SWINGOUT DOOR FOR STAGING AREA ENTRANCE AND WITH SCREENS PRIOR TO COMMENCEMENT OF DEMOLITION AND CONSTRUCTION WORK. CONTRACTOR TO ADJUST FENCING AS NECESSARY DURING CONSTRUCTION.
  3. PROVIDE TWO FLAGMEN FOR CONTROL TRAFFIC DURING INSTALLATION OF CONSTRUCTION FENCING.
  4. PROVIDE AT LEAST 30 STANDARD INDUSTRY CONSTRUCTION AND TRAFFIC SIGNS (FREESTANDING OR FENCE MOUNTED - FULL SIZE) FOR REVIEW AND APPROVAL DURING THE DURATION OF PHASES 1 AND 2 OF CONSTRUCTION.
  5. PROVIDE LOGISTICS PLAN SHOWING THE CONSTRUCTION AND TRAFFIC SIGNS FOR REVIEW AND APPROVAL. CONSTRUCTION AND TRAFFIC SIGNS CONTENTS TO BE DETERMINED BY DISTRICT'S REPRESENTATIVE.
  6. CONTRACTOR TO PROVIDE TEMPORARY BASE AND ASPHALT WITH TEMPORARY STRIPING AS NEEDED IN THE EVENT THE USABLE EXISTING ROAD IS LESS THAN 20-FT. WIDE. THIS WILL INCLUDE A TEMPORARY COMPACTION OF THE GRADE IN PLACE (± 9-INCHES) WITH 6-INCHES OF C.A.B. AND 3-INCHES OF ASPHALT OVER. THIS WILL BE REMOVED ONCE THE PHASE IS OVER - REFER TO SPECIFICATION SECTION 01 50 00, 3.03 - J - 2).

**CONSTRUCTION LOGISTICS LEGEND**

- APPROXIMATE TEMPORARY (REMOVAL) FENCING W/ PRIVACY SCREEN. CONTRACTOR TO DETERMINE FINAL LOCATION
- TEMPORARY (REMOVAL) VEHICLE ACCESS DOOR FENCING W/ PRIVACY SCREEN
- TEMPORARY (REMOVAL) PEDESTRIAN SINGLE ACCESS DOOR FENCING W/ PRIVACY SCREEN
- CONSTRUCTION DUMPSTER BIN
- DESIGNATED PARKING FOR ALL CONSTRUCTION PERSONNEL
- PROVIDE FLAGMAN AT BOTH SIDES DURING DELIVERY OF EQUIPMENT AT ALL TIMES, TYP. U.N.O.
- INSTALL CONSTRUCTION SIGN(S) FOR PEDESTRIANS ("CONSTRUCTION WORK AHEAD" & "DEAD END AHEAD")
- TEMPORARY CONSTRUCTION VEHICULAR / DELIVERY ACCESS ROUTE TO PROJECT FOR CONTRACTOR
- VEHICLE BARRIER W/ VEHICLE DETOUR SIGN DIRECTING TRAFFIC TO TEMPORARY ALTERNATE ROUTE
- CONSTRUCTION LAYDOWN AREA
- CONSTRUCTION PORTA POTTY
- ELECTRICAL DISPLAY SIGN STATING, "CONSTRUCTION, NO ACCESS TO PARKING LOT 6 - LEFT THRU TRAFFIC"
- TRAFFIC CONES W/ DOUBLE REFLECTIVE STRIPES W/ NO PARKING SIGNAGE, TYP.
- TEMPORARY PLASTIC K-RAIL FILLED W/ WATER

**CONSTRUCTION LOGISTICS CRITERIA**

**CONSTRUCTION LOGISTICS NOTES**

**CONSTRUCTION LOGISTICS LEGEND**

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