

City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
CITY CONTACT: Clementina Giordano - Contract Specialist, Email: CGiordano@sandiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633
JManchester /BDoringo/LAD

CONTRACT DOCUMENTS



FOR

HILLERY DRIVE IMPROVEMENTS

VOLUME 1 OF 2

BID NO.: _____ K-14-5962-DBB-3
SAP NO. (WBS/IO/CC): _____ S-11064
CLIENT DEPARTMENT: _____ 2116
COUNCIL DISTRICT: _____ 5
PROJECT TYPE: _____ ID

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE FEDERAL
- THIS IS A TRANSNET FUNDED CONTRACT THROUGH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION

BID DUE DATE:

**2:00PM
JANUARY 14, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101**

ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer:

A. Palasey
For City Engineer

12/3/13
Date

Seal:



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CITY OF SAN DIEGO, CALIFORNIA

NOTICE INVITING BIDS

1. **RECEIPT AND OPENING OF BIDS:** Bids will be received at the Public Works Contracting Group at the location, time, and date shown on the cover of these specifications for performing work on **Hillery Drive Improvements** (Project).
2. **SUMMARY OF WORK:** The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the construction of the Project as described in ATTACHMENT A.
3. **BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
4. **EQUAL OPPORTUNITY CONTRACTING PROGRAM:**
 - 4.1. The City has incorporated **mandatory** SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

1. SLBE participation	8.9%
2. ELBE participation	21.0%
3. Total mandatory participation	29.9%
 - 4.2. The Bidders are **required** to attend the Pre-Bid Meeting to better understand the Good Faith Effort requirements of this contract. See the City's document titled "SLBE Program, Instructions For Bidders Completing The Good Faith Effort Submittal" available at: <http://www.sandiego.gov/eoc/>
 - 4.3. The Bid will be declared non-responsive if the Bidder fails the following mandatory conditions:
 - 4.3.1. Attending the Pre-Bid Meeting.
 - 4.3.2. Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; OR.

4.3.3. Bidder's submission of Good Faith Effort documentation demonstrating the Bidder made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Day of the Bid opening if the overall mandatory participation percentage is not met.

4.4. For additional Equal Opportunity Contracting Program requirements, see Attachment C.

5. PRE-BID MEETING:

5.1. There will be a Pre-Bid Meeting to discuss the scope of the Project, bidding requirements, pre-qualification process, and Equal Opportunity Contracting Program requirements and reporting procedures in the Public Works Contracting Group, Conference Room at 1010 Second Avenue, 14th Floor, San Diego, CA 92101 **at 10:00 A.M., on December 19, 2013.**

5.2. **The Pre-Bid Meeting has been designated as MANDATORY. All potential bidders are required to attend.** Bid will be declared **non-responsive** if the Bidder fails to attend the Pre-Bid Meeting when specified to be mandatory. Attendance at the Pre-Bid Meeting will be evidenced by the representative's signature on the attendance roster. It shall be the responsibility of the Bidder's representative to complete and sign the attendance roster. **No Bidder will be admitted after the specified start time of the mandatory Pre-Bid Meeting.**

5.3. To request a copy of the agenda on an alternative format, or to request a sign language or oral interpreter for this meeting, call the Public Works Contracting Group at (619) 533-3450 at least 5 Working Days prior to the Pre-Bid Meeting to ensure availability.

6. CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:

6.1. **Prior** to the Award of the Contract or each Task Order, you and your Subcontractors and Suppliers must register with the City's web-based contract compliance website, Prism®, located here:

<https://pro.prismcompliance.com/default.aspx>.

6.2. The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.

7. JOINT VENTURE CONTRACTORS. Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 2-1.1.2, "Joint Venture Contractors" in The WHITEBOOK for details.

8. PREVAILING WAGE RATES: Prevailing wage rates apply to this contract.

8.1. STATE REQUIREMENTS FOR CONTRACTS SUBJECT TO STATE PREVAILING WAGE REQUIREMENTS.

- 8.1.1.** In accordance with the provisions of California Labor Code Sections 1770, et seq. as amended, the Director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages in accordance with the standards set forth in such Sections for the locality in which the Work is to be performed. Copies of the prevailing rate of per diem wages may be found at http://www.dir.ca.gov/dlsr/statistics_research.html. The Contractor shall post a copy of the above determination of the prevailing rate of per diem wages at each job site and shall make them available to any interested party on request.
- 8.1.2.** Pursuant to Sections 1720 et seq., and 1770 et seq., of the California Labor Code the Contractor any Subcontractor shall pay not less than said specified rates determined by the Director of the California Department of Industrial Relations to all workmen employed by them in the execution of the Work.
- 8.1.3.** The wage rates determined by the Director of Industrial Relations and published in the Department of Transportation publication entitled, "General Prevailing Wage Rates", refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, said published rate of wage shall be in effect for the life of this contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the Department of Industrial Relations, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this contract, each successive predetermined wage rate shall apply to this contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this contract, such wage rate shall apply to the balance of the contract.
- 8.1.4.** The successful bidder intending to use a craft or classification not shown on the prevailing rate determinations may be required to pay the rate of the craft or classification most closely related to it.

9. INSURANCE REQUIREMENTS:

- 9.1.** All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City's Notice of Intent to Award letter.
- 9.2.** Refer to sections 7-3, "LIABILITY INSURANCE", and 7-4, "WORKERS' COMPENSATION INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

10. PREQUALIFICATION OF CONTRACTORS:

10.1. Contractors submitting Bid must be pre-qualified for the total amount proposed, inclusive of all alternate items prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified will be deemed **non-responsive** and ineligible for award. Complete information and prequalification questionnaires are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification.shtml>

10.2. The completed questionnaire, financial statement, and bond letter or a copy of the contractor’s SLBE-ELBE certification and bond letter, must be submitted no later than 2 weeks prior to the bid opening to the Public Works Contracting Group, Prequalification Program, 1010 Second Avenue, 14th Floor, San Diego, CA 92101. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or dstucky@sandiego.gov.

11. REFERENCE STANDARDS: Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction (“The GREENBOOK”)	2012	PITS070112-01
City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”)*	2012	PITS070112-02
City of San Diego Standard Drawings*	2012	PITS070112-03
Caltrans Standard Specifications	2010	PITS070112-04
Caltrans Standard Plans	2010	PITS070112-05
California MUTCD	2012	PITS070112-06
City Standard Drawings - Updates Approved For Use (when specified)*	Varies	Varies
Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause Dated 09-11-84	1984	769023
NOTE: *Available online under Engineering Documents and References at: http://www.sandiego.gov/publicworks/edocref/index.shtml		

12. CITY’S RESPONSES AND ADDENDA: The City at its option, may respond to any or all questions submitted in writing, via letter, or FAX in the form of an addendum. No oral comment shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addendum are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda on the form provided for this purpose in the Bid.

- 13. CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.
- 14. CONTRACT PRICING FORMAT:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth in the Bid Proposal Form(s), Volume 2.
- 15. SUBMITTAL OF "OR EQUAL" ITEMS:** See Section 4-1.6, "Trade Names or Equals" in The WHITEBOOK and as amended in the SSP.
- 16. AWARD PROCESS:**
- 16.1.** The Award of this contract is contingent upon the Contractor's compliance with all conditions precedent to Award.
- 16.2.** Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.
- 16.3.** This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.
- 17. SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The GREENBOOK and as amended in the SSP which requires the Contractor to self perform the amount therein stipulated. Failure to comply with these requirements may render the Bid **non-responsive** and ineligible for award.
- 18. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City's website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracting Group.
- 19. SUBMISSION OF QUESTIONS:**
- 19.1.** The Director (or designee), of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. All questions related to this solicitation shall be submitted to:
- Public Works Contracting Group
1010 Second Avenue, 14th Floor
San Diego, California, 92101
- Attention: [Contract Specialist listed on the front cover hereof]

OR:

Email address of the Contract Specialist listed on the front cover hereof.

- 19.2. Questions received less than 14 days prior to the date for opening of Bids may not be considered.
 - 19.3. Clarifications deemed by the City to be material shall be issued by Addenda and uploaded to the City's online bidding service.
 - 19.4. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. It is the Bidder's responsibility to become informed of any Addenda that have been issued and to include all such information in its Bid.
20. **ELIGIBLE BIDDERS:** No person, firm, or corporation shall be allowed to make, file, or be interested in **more** than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.
21. **SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms with the Notice Inviting Bids and Contract forms.
22. **PROPOSAL FORMS:** Bid shall be made only upon the Bidding Documents i.e., Proposal form attached to and forming a part of the specifications. The signature of each person signing shall be in longhand.
- 22.1. Bidder shall complete and submit all pages in the "Bidding Document" Section (see Volume 2) as their Bid per the schedule given under "Required Documents Schedule," (see Volume 1). Bidder is requested to retain for their reference other portions of the Contract Documents that are not required to be submitted with the Bid. The entire specifications for the bid package do not need to be submitted with the bid.
 - 22.2. The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.
 - 22.3. Bids and certain other forms and documents as specified in the Volume 2 of 2 of the Contract Documents shall be enclosed in a sealed envelope and shall bear the title of the work and name of the Bidder and the appropriate State Contractors License designation which the Bidder holds.
 - 22.4. Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.

23. BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY):

- 23.1.** With the exception of the contracts valued \$5,000 or less, JOC and Design-Build contracts, and contracts subject to the Small and Local Business Program of \$250,000 or less e.g., ELBE contracts, each Bidder shall accompany its Bid with either a cashier's check upon some responsible bank, or a check upon such bank properly certified or an approved corporate surety bond payable to the City of San Diego, for an amount of not less than 10% of the aggregate sum of the Bid, which check or bond, and the monies represented thereby shall be held by the City as a guarantee that the Bidder, if awarded the contract, will in good faith enter into such contract and furnish the required final bonds.
- 23.2.** The Bidder agrees that in case of Bidder's refusal or failure to execute this contract and give required final bonds, the money represented by a cashier's or certified check shall remain the property of the City, and if the Bidder shall fail to execute this contract, the Surety agrees that it will pay to the City damages which the City may suffer by reason of such failure, not exceeding the sum of 10% of the amount of the Bid.
- 23.3.** A Bid received without the specified bid security will be rejected as being **non-responsive**.

24. AWARD OF CONTRACT OR REJECTION OF BIDS:

- 24.1.** This contract may be awarded to the lowest responsible and reliable Bidder.
- 24.2.** Bidders shall complete the entire Bid schedule (also referred to as "schedule of prices" or Proposal form). Incomplete price schedules will be rejected as being non-responsive.
- 24.3.** The City reserves the right to reject any or all Bids, and to waive any informality or technicality in Bids received and any requirements of these specifications as to bidding procedure.
- 24.4.** Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City from the Bidder within 3 Working Days, excluding Saturdays, Sundays, and state holidays, after the opening of Bids, of written notice which includes proof of honest, credible, clerical error of material nature, free from fraud or fraudulent intent, and of evidence that reasonable care was observed in the preparation of the Bid.
- 24.5.** A non-selected Bidder may protest award of the Contract to the selected Bidder by submitting a written "Notice of Intent to Protest" including supporting documentation which shall be received by Public Works Contracting Group no later than 10 days after the City's announcement of the selected Bidder or no later than 10 days from the date that the City issues notice of designation of a Bidder as non-responsive in accordance with San Diego Municipal Code Chapter 2, § 22.3029, "Protests of Contract Award."
- 24.6.** The City of San Diego will not discriminate with regard to race, religious creed, color, national origin, ancestry, physical handicap, marital status, sex or age, in the award of contracts.

- 24.7. Each Bid package properly executed as required by these specifications shall constitute a firm offer, which may be accepted by the City within the time specified in the Proposal.
- 24.8. The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of any proposed alternates, additive items or options, at its discretion that will be disclosed in the Volume 2 of 2.

25. BID RESULTS:

- 25.1. The Bid opening by the City shall constitute the public announcement of the Apparent Low Bidder. In the event that the Apparent Low Bidder is subsequently deemed non-responsive or non-responsible, a public announcement will be posted in the City's web page <http://www.sandiego.gov/cip/index.shtml>, with the name of the newly designated Apparent Low Bidder.
- 25.2. To obtain Bid results, either attend Bid opening, review the results on the City's web site, or provide a self-addressed, stamped envelope, referencing Bid number, and Bid tabulation will be mailed to you upon verification of extensions. Bid results cannot be given over the telephone.

26. THE CONTRACT:

- 26.1. The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.
- 26.2. If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
- 26.3. If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.
- 26.4. Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14 Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.

- 26.5.** The award of the Contract is contingent upon the satisfactory completion of the above mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.
- 27. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
- 28. CITY STANDARD PROVISIONS.** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 28.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 28.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 28.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- 28.4.** The City of San Diego’s Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 28.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 28.6.** The City’s Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 28.7.** The City’s Information Security Policy (ISP) as defined in the City’s Administrative Regulation 90.63.
- 29. PRE-AWARD ACTIVITIES:**
- 29.1.** The selected contractor by the City to execute a contract for this Work shall provide the information required within the time specified in “Required Documents,” of this bid package. Failure to provide the information within the time specified may result in the Bid being rejected as **non-responsive**.
- 29.2.** If the Bid is rejected as non-responsive, the selected contractor by the City to execute a contract for this Work shall forfeit the required Bid. The decision that the selected contractor by the City to execute a contract for this Work is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

30. REQUIRED DOCUMENT SCHEDULE:

30.1. The Bidder’s attention is directed to the City’s Municipal Code §22.0807(e), (3)-(5) for important information regarding grounds for debarment for failure to submit required documentation.

30.2. The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City’s web site at:

<http://www.sandiego.gov/eoc/forms/index.shtml>

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
1.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid
2.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid Bond
3.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid under 23 USC 112 and PCC 7106
4.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Contractors Certification of Pending Actions
5.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Equal Benefits Ordinance Certification of Compliance
6.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA35 - List of Subcontractors
7.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
8.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	SLBE Good Faith Efforts Documentation
9.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Form AA60 – List of Work Made Available
10.	WITHIN 3 WORKING DAYS OF BID OPENING WITH GOOD FAITH EFFORT DOCUMENTATION	ALL BIDDERS	Proof of Valid DBE-MBE-WBE-DVBE Certification Status e.g., Certs.
11.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Names of the principal individual owners of the Apparent Low Bidder

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
12.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture: <ul style="list-style-type: none"> • Joint Venture Agreement • Joint Venture License
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
16.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
17.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
18.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act
19.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance

CONTRACT FORMS
AGREEMENT

CONTRACT FORMS

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and **Dick Miller, Inc.**, herein called "Contractor" for construction of **Hillery Drive Improvements**; Bid No. **K-14-5962-DBB-3**; in the amount of **One Million One Hundred Eighty-Seven Thousand Seven Hundred Eighty-One Dollars and 98/100 (\$1,187,781.98)**, which is comprised of the Base only.

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings of the parties hereto, City and Contractor agree as follows:

1. The following are incorporated into this contract as though fully set forth herein:
 - (a) The attached Faithful Performance and Payment Bonds.
 - (b) The attached Proposal included in the Bid documents by the Contractor.
 - (c) Reference Standards listed in the Notice Inviting Bids and the Supplementary Special Provisions (SSP).
 - (d) That certain documents entitled **Hillery Drive Improvements**, on file in the office of the Public Works Department as Document No. **S-11064**, as well as all matters referenced therein.
2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **Hillery Drive Improvements**, Bid Number **K-14-5962-DBB-3**, San Diego, California.
3. For such performances, the City shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the Mayor or designee signs the agreement.

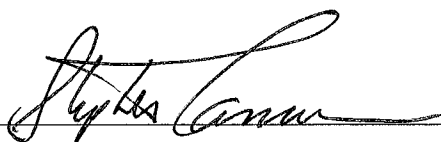
CONTRACT FORMS (continued)

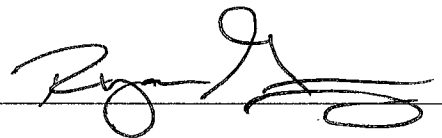
IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Municipal Code 22.3107 authorizing such execution.

THE CITY OF SAN DIEGO

APPROVED AS TO FORM AND LEGALITY

Jan I. Goldsmith, City Attorney

By 

By 

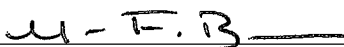
Print Name: Stephen Samara,
Senior Contract Specialist

Print Name: RYAN P. GERRITY
Deputy City Attorney

Date: 3/24/14

Date: 3/24/2014

CONTRACTOR

By 

Print Name: Glen F. Bullock

Title: PRESIDENT

Date: 2-7-14

City of San Diego License No.: APPLIED FOR 2/12/14

State Contractor's License No.: 380204

CONTRACT FORMS ATTACHMENTS
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Dick Miller, Inc., a corporation, as principal, and
The Ohio Casualty Insurance Company, a corporation authorized to do
business in the State of California, as Surety, hereby obligate themselves, their successors and
assigns, jointly and severally, to The City of San Diego a municipal corporation in the sum of
One Million, One Hundred Eighty-Seven Thousand, Seven Hundred and Eighty-One for the faithful performance of the
annexed contract, and in the sum of One Million, One Hundred Eighty-Seven Thousand, Seven Hundred and Eighty-One for the
benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract **Hillery Drive Improvements**,
Bid Number **K-14-5962-DBB-3**, San Diego, California then the obligation herein with respect to a
faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for
or performing labor in the execution of this contract, and shall pay all amounts due under the
California Unemployment Insurance Act then the obligation herein with respect to laborers and
materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all
persons, firms and corporations entitled to file claims under the provisions of Chapter 3 of Division 5
of Title I of the Government Code of the State of California or under the provisions of Section 3082
et seq. of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or
referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives
notice of same.

CONTRACT FORMS ATTACHMENTS (continued)
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated February 12, 2014

Approved as to Form and Legality

Dick Miller, Inc.

Principal

By M-F.B.

Glen F. Bullock

Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By 
Deputy City Attorney


The Ohio Casualty Insurance Company

Surety

By 

Attorney-in-fact, Bart Stewart

Approved:


Mayor or Designee

790 The City Drive South, Suite 200

Local Address of Surety

Orange, CA 92868

Local Address (City, State) of Surety

(714) 634-3311

Local Telephone No. of Surety

Premium \$ 13,184.00

Bond No. 024055984

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 6094507

American Fire and Casualty Company
The Ohio Casualty Insurance Company

Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Bart Stewart

all of the city of Encinitas, state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 24th day of April, 2013.



American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary

STATE OF WASHINGTON ss
COUNTY OF KING

On this 24th day of April, 2013, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Seattle, Washington, on the day and year first above written.



By: KDRiley
K D Riley, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Gregory W. Davenport, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, David M. Carey, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 12th day of February, 20 14.



By: David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of San Diego

On 02/12/14 before me, Molly Cashman, Notary Public
(Here insert name and title of the officer)

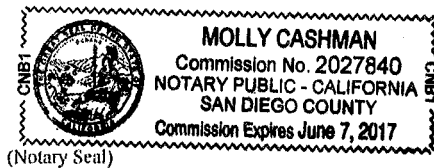
personally appeared Bart Stewart

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Molly Cashman
Signature of Notary Public



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

(Additional information)

CAPACITY CLAIMED BY THE SIGNER

Individual (s)
 Corporate Officer

(Title)

Partner(s)
 Attorney-in-Fact
 Trustee(s)
 Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they~~ is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document

CONTRACTOR CERTIFICATION

DRUG-FREE WORKPLACE

PROJECT TITLE: Hillery Drive Improvements

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

DMI - DICKMILLER INC.

(Name under which business is conducted)

has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

Signed M. F. B.

Printed Name CALVIN F. BULLOCK

Title PRESIDENT

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

PROJECT TITLE: Hillery Drive Improvements

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that;

DME DICKMILLER INC.

(Name under which business is conducted)

has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

Signed M-F.B.

Printed Name GLEN F. BULLOCK

Title PRESIDENT

AFFIDAVIT OF DISPOSAL

WHEREAS, on the _____ DAY OF _____, _____, the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

Hillery Drive Improvements

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-14-5962-DBB-3**; SAP No. (WBS/IO/CC) **S-11064**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

by _____ Contractor

ATTEST:

State of _____
County of _____

On this _____ DAY OF _____, 2____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared _____ known to me to be the _____ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

AFFIDAVIT OF DISPOSAL

WHEREAS, on the _____ DAY OF _____, _____, the undersigned entered into and executed a contract with the City of San Diego, a municipal corporation, for:

Hillary Drive Improvements

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-14-5962-DBB-3**; SAP No. (WBS/IO/CC) **S-11064**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of:

NOW, THEREFORE, in consideration of the final payment by the City of San Diego to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

and that they have been disposed of according to all applicable laws and regulations.

Dated this _____ DAY OF _____, _____.

Contractor
by

ATTEST:

State of _____
County of _____

On this _____ DAY OF _____, 2____, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared _____ known to me to be the _____ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

COMPANY LETTERHEAD

CERTIFICATE OF COMPLIANCE

Materials and Workmanship Compliance

For Contract or Task _____

I certify that the material listed below complies with the materials and workmanship requirements of the Caltrans Contract Plans, Special Provisions, Standard Specifications, and Standard Plans for the contract listed above.

I also certify that I am an official representative for _____, the manufacturer of the material listed above. Furthermore, I certify that where California test methods, physical or chemical test requirements are part of the specifications, that the manufacturer has performed the necessary quality control to substantiate this certification.

Material Description:

Manufacturer: _____
Model: _____
Serial Number (if applicable) _____
Quantity to be supplied: _____
Remarks: _____

Signed by: _____

Printed Name: _____

Title: _____

Company: _____

Date: _____

**City of San Diego
Engineering and Capital Projects, Field Division**

NOTICE OF MATERIALS TO BE USED

To: _____
Resident Engineer

Date: _____, 20__

You are hereby notified that the materials required for use under Contract No. _____
for construction of _____
_____ in the City of San Diego, will be obtained from sources herein designated.

CONTRACT ITEM NO. (Bid Item)	KIND OF MATERIAL (Category)	NAME AND ADDRESS WHERE MATERIAL CAN BE INSPECTED (At Source)

It is requested that you arrange for a sampling, testing, and inspection of the materials prior to delivery, in accordance with Section 4-1.11 of the WHITEBOOK, where it is practicable, and in accordance with your policy. It is understood that source inspection does not relieve the Contractor of full responsibility for incorporating in the work, materials that comply in all respects with the contract plans and specifications, nor does it preclude subsequent rejection of materials found to be undesirable or unsuitable.

Distribution:

Supplier

Yours truly,

Signature of Supplier

Address

Phone Number: _____

ATTACHMENTS

ATTACHMENT A

SCOPE OF WORK

SCOPE OF WORK

1. **SCOPE OF WORK:** The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the construction of the Project as described below:

Remove existing concrete, asphalt paving and landscape improvements along Hillery Drive and replace with new paving, concrete sidewalk and retaining wall; relocate existing curb inlet along Hillery Drive and install new junction structure; remove portions of existing pavement along Rickert Road and install new PCC chicanes; modify signal at intersection and existing striping; install new raised, lighted crosswalk along Hillery Drive; reconstruct existing sidewalk, driveway and hardscape at adjacent parcel; install new streetlights.

- 1.1. The Work shall be performed in accordance with:

- 1.1.1. The Notice Inviting Bids and Plans numbered **36647-01-D** through **36647-23-D**, inclusive.

2. **CONSTRUCTION COST:** The City's estimated construction cost for this contract is **\$1,428,000.00**.
3. **LOCATION OF WORK:** See the location map attached.
4. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **66 Working Days**.
5. **CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time that the Bid is submitted. Failure to possess the specified license(s) shall render the Bid as **non-responsive** and shall act as a bar to award of the Contract to any Bidder not possessing required license(s) at the time of Bid.

- 5.1. The City has determined the following licensing classification for this contract:

- CLASS A

ATTACHMENT B

INTENTIONALLY LEFT BLANK

ATTACHMENT C

EQUAL OPPORTUNITY CONTRACTING PROGRAM

EQUAL OPPORTUNITY CONTRACTING PROGRAM

1. To The WHITEBOOK, Chapter 10, Sections D and E, DELETE each in its entirety, and SUBSTITUTE with the following:

D. CITY'S EQUAL OPPORTUNITY COMMITMENT.

1. Nondiscrimination in Contracting Ordinance.

1. The Contractor, Subcontractors and Suppliers shall comply with requirements of the City's Nondiscrimination in Contracting Ordinance, San Diego Municipal Code §§22.3501 through 22.3517.

The Contractor shall not discriminate on the basis of race, gender, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers. The Contractor shall provide equal opportunity for subcontractors to participate in subcontracting opportunities. The Contractor understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in contract termination, debarment, or other sanctions.

The Contractor shall include the foregoing clause in all contracts between the Contractor and Subcontractors and Suppliers.

2. Disclosure of Discrimination Complaints. As part of its Bid or Proposal, the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors, or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.
3. Upon the City's request, the Contractor agrees to provide to the City, within 60 days, a truthful and complete list of the names of all Subcontractors and Suppliers that the Contractor has used in the past 5 years on any of its contracts that were undertaken within San Diego County, including the total dollar amount paid by the Contractor for each subcontract or supply contract.
4. The Contractor further agrees to fully cooperate in any investigation conducted by the City pursuant to the City's Nondiscrimination in Contracting Ordinance, Municipal Code §§22.3501 through 22.3517. The Contractor understands and agrees that violation of this clause shall be considered a material breach of the Contract and may result in remedies being ordered against the Contractor up to and including contract termination, debarment and other sanctions for violation of the provisions of the Nondiscrimination in Contracting Ordinance. The Contractor further understands and agrees that the procedures, remedies and sanctions provided for in the Nondiscrimination in Contracting Ordinance apply only to violations of the Ordinance.

E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.

1. The Contractor, Subcontractors and Suppliers shall comply with the City's Equal Employment Opportunity Outreach Program, San Diego Municipal Code §§22.2701 through 22.2707.

The Contractor shall not discriminate against any employee or applicant for employment on any basis prohibited by law. Contractor shall provide equal opportunity in all employment practices. Prime Contractor shall ensure their subcontractors comply with this program. Nothing in this section shall be interpreted to hold a prime contractor liable for any discriminatory practice of its subcontractors.

The Contractor shall include the foregoing clause in all contracts between the Contractor and Subcontractors and Suppliers.

2. If the Contract is competitively solicited, the selected Bidder shall submit a Work Force Report (Form BB05), within 10 Working Days after receipt by the Bidder of Contract forms to the City for approval as specified in the Notice of Intent to Award letter from the City.
3. If a Work Force Report is submitted, and the City determines there are under-representations when compared to County Labor Force Availability data, the selected Bidder shall submit an Equal Employment Opportunity Plan.
4. If the selected Bidder submits an Equal Employment Opportunity Plan, it shall include the following assurances:
 1. The Contractor shall maintain a working environment free of discrimination, harassment, intimidation and coercion at all sites and in all facilities at which the Contractor's employees are assigned to work.
 2. The Contractor reviews its EEO Policy, at least annually, with all on-site supervisors involved in employment decisions.
 3. The Contractor disseminates and reviews its EEO Policy with all employees at least once a year, posts the policy statement and EEO posters on all company bulletin boards and job sites, and documents every dissemination, review and posting with a written record to identify the time, place, employees present, subject matter, and disposition of meetings.
 4. The Contractor reviews, at least annually, all supervisors' adherence to and performance under the EEO Policy and maintains written documentation of these reviews.
 5. The Contractor discusses its EEO Policy Statement with subcontractors with whom it anticipates doing business, includes the EEO Policy Statement in its subcontracts, and provides such documentation to the City upon request.

6. The Contractor documents and maintains a record of all bid solicitations and outreach efforts to and from subcontractors, contractor associations and other business associations.
7. The Contractor disseminates its EEO Policy externally through various media, including the media of people of color and women, in advertisements to recruit, maintains files documenting these efforts, and provides copies of these advertisements to the City upon request.
8. The Contractor disseminates its EEO Policy to union and community organizations.
9. The Contractor provides immediate written notification to the City when any union referral process has impeded the Contractor's efforts to maintain its EEO Policy.
10. The Contractor maintains a current list of recruitment sources, including those outreaching to people of color and women, and provides written notification of employment opportunities to these recruitment sources with a record of the organizations' responses.
11. The Contractor maintains a current file of names, addresses and phone numbers of each walk-in applicant, including people of color and women, and referrals from unions, recruitment sources, or community organizations with a description of the employment action taken.
12. The Contractor encourages all present employees, including people of color and women employees, to recruit others.
13. The Contractor maintains all employment selection process information with records of all tests and other selection criteria.
14. The Contractor develops and maintains documentation for on-the-job training opportunities, participates in training programs, or both for all of its employees, including people of color and women, and establishes apprenticeship, trainee, and upgrade programs relevant to the Contractor's employment needs.
15. The Contractor conducts, at least annually, an inventory and evaluation of all employees for promotional opportunities and encourages all employees to seek and prepare appropriately for such opportunities.
16. The Contractor ensures the company's working environment and activities are non-segregated except for providing separate or single-user toilets and necessary changing facilities to assure privacy between the sexes.

ATTACHMENT D

FUNDING AGENCY PROVISIONS

1. FEDERAL WAGE REQUIREMENTS:

1.1. Minimum wage rates for this project have been predetermined by the Secretary of Labor and are set forth in the Decision of the Secretary and bound into the specifications book. Should there be any difference between the state or federal wage rates, including health and welfare funds for any given craft, mechanic, or similar classifications needed to execute the Work, it shall be mandatory upon the Contractor or subcontractor to pay the higher of the two rates.

2. WAGE RATES. This contract shall be subject to the following Davis-Bacon Wage Decisions:

General Decision Number: CA130001 11/15/2013 CA1

Superseded General Decision Number: CA20120001

State: California

Construction Types: Building, Heavy (Heavy and Dredging), Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION

PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	01/04/2013
1	01/18/2013
2	03/01/2013
3	03/08/2013
4	03/22/2013
5	04/12/2013
6	05/10/2013
7	05/31/2013
8	07/05/2013
9	07/19/2013
10	08/09/2013
11	08/16/2013
12	08/23/2013
13	08/30/2013
14	09/06/2013
15	09/13/2013
16	09/20/2013
17	10/04/2013
18	11/15/2013

ASBE0005-002 07/01/2013

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 34.51	18.55
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 24.34	16.09

ASBE0005-004 06/24/2013

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	\$ 16.95	10.23

BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER.....	\$ 41.17	28.27

BRCA0004-008 11/01/2012

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....	\$ 33.75	14.55

BRCA0018-004 06/01/2012

	Rates	Fringes
MARBLE FINISHER.....	\$ 27.04	10.66
TILE FINISHER.....	\$ 22.37	9.19
TILE LAYER.....	\$ 33.55	13.55

BRCA0018-010 09/01/2011

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 26.59	9.62

TERRAZZO WORKER/SETTER.....\$ 33.63 10.46

CARP0409-002 07/01/2008

	Rates	Fringes
Diver		
(1) Wet.....	\$ 663.68	9.82
(2) Standby.....	\$ 331.84	9.82
(3) Tender.....	\$ 323.84	9.82
(4) Assistant Tender.....	\$ 299.84	9.82

Amounts in "Rates" column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer.....	\$ 17.00	7.41

CARP0547-001 07/01/2009

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 37.28	10.58
(2) Commercial Building....	\$ 32.30	10.58
(3) Heavy & Highway.....	\$ 37.15	10.58
(4) Residential Carpenter..	\$ 25.84	10.58
(5) Residential		
Insulation Installer.....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 37.65	10.58
PILEDRIVERMAN.....	\$ 37.28	10.58

CARP0547-002 07/01/2009

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories		
Drywall Installer/Lather...\$	21.00	8.58
Drywall Stocker/Scrapper...\$	11.00	6.67
(2) All other work		
Drywall Installer/Lather...\$	27.35	9.58
Drywall Stocker/Scrapper...\$	11.00	6.67

ELEC0569-001 06/03/2013

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 43.78	3%+11.87
Electrician.....	\$ 43.03	3%+11.87

Electricians: (All Other
Work, Including 4 Stories
Residential)

Cable Splicer.....	\$ 39.00	3%+11.87
Electrician.....	\$ 38.25	3%+11.87

ELEC0569-005 12/01/2012

	Rates	Fringes
Sound & Communications		
Sound Technician.....	\$ 27.57	3%+10.81
Soundman.....	\$ 22.06	3%+9.17

SOUND TECHNICIAN: Terminating, operating and performing final check-out

SOUNDMAN: Wire-pulling, splicing, assembling and installing devices

SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.

* ELEC0569-006 10/17/2013

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....	\$ 28.00	3%+10.42
Utility Technician #2.....	\$ 23.15	3%+10.42

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry,

programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV and communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

 ELEC0569-008 06/03/2013

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 22.37	3%+3.30

 * ELEC1245-001 06/01/2013

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 50.30	15.00
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 40.17	14.56
(3) Groundman.....	\$ 30.73	13.48
(4) Powderman.....	\$ 44.91	13.48

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

 ELEV0018-001 01/01/2013

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 48.23	25.185

FOOTNOTE:

PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
 PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1.....	\$ 38.20	21.10
GROUP 2.....	\$ 38.98	21.10
GROUP 3.....	\$ 39.27	21.10
GROUP 4.....	\$ 40.76	21.10
GROUP 5.....	\$ 41.86	21.10
GROUP 6.....	\$ 40.98	21.10
GROUP 8.....	\$ 41.09	21.10
GROUP 9.....	\$ 42.19	21.10
GROUP 10.....	\$ 41.21	21.10
GROUP 11.....	\$ 42.31	21.10
GROUP 12.....	\$ 41.38	21.10
GROUP 13.....	\$ 41.48	21.10
GROUP 14.....	\$ 41.51	21.10
GROUP 15.....	\$ 41.59	21.10
GROUP 16.....	\$ 41.71	21.10
GROUP 17.....	\$ 41.88	21.10
GROUP 18.....	\$ 41.98	21.10
GROUP 19.....	\$ 42.09	21.10
GROUP 20.....	\$ 42.21	21.10
GROUP 21.....	\$ 42.38	21.10
GROUP 22.....	\$ 42.48	21.10
GROUP 23.....	\$ 42.59	21.10
GROUP 24.....	\$ 42.71	21.10
GROUP 25.....	\$ 42.88	21.10
OPERATOR: Power Equipment (Cranes, Piledriving & Hoisting)		
GROUP 1.....	\$ 39.55	21.10
GROUP 2.....	\$ 40.33	21.10
GROUP 3.....	\$ 40.62	21.10
GROUP 4.....	\$ 40.76	21.10
GROUP 5.....	\$ 40.98	21.10
GROUP 6.....	\$ 41.09	21.10
GROUP 7.....	\$ 41.21	21.10
GROUP 8.....	\$ 41.38	21.10
GROUP 9.....	\$ 41.55	21.10
GROUP 10.....	\$ 42.55	21.10
GROUP 11.....	\$ 43.55	21.10
GROUP 12.....	\$ 44.55	21.10
GROUP 13.....	\$ 45.55	21.10
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1.....	\$ 40.05	21.10
GROUP 2.....	\$ 40.83	21.10
GROUP 3.....	\$ 41.12	21.10
GROUP 4.....	\$ 41.26	21.10
GROUP 5.....	\$ 41.48	21.10
GROUP 6.....	\$ 41.59	21.10
GROUP 7.....	\$ 41.71	21.10

PREMIUM PAY:

\$3.75 per hour shall be paid on all Power Equipment Operator work on the following Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter (concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck);

Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine,

up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote-control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units -

multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Creter crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1s, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state

line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point which is the SW corner of Section 34. T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a think strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along

the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 ENGI0012-004 08/01/2012

	Rates	Fringes
OPERATOR: Power Equipment		
(DREDGING)		
(1) Leverman.....	\$ 45.40	20.00
(2) Dredge dozer.....	\$ 40.93	20.00
(3) Deckmate.....	\$ 40.82	20.00
(4) Winch operator (stern winch on dredge).....	\$ 40.27	20.00
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 39.73	20.00
(6) Barge Mate.....	\$ 40.34	20.00

 IRON0377-002 07/01/2013

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 26.58	17.74
Ornamental, Reinforcing and Structural.....	\$ 33.00	26.30

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

 LABO0089-001 07/01/2013

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 26.98	15.42
Group 2.....	\$ 27.66	15.42
Group 3.....	\$ 28.37	15.42
Group 4.....	\$ 29.17	15.42
Group 5.....	\$ 31.10	15.42
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 24.88	13.75
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).....	\$ 23.59	13.75

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominiums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form

oiler; Cutting torch operator (demoliton); Guinea chaser; Headboard man-asphlt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Riiprap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, mult-plate; Kettlemen, potmen and mean applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibratring machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and inclduing rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scaarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, apshalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of oepration, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all pwder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 27.98	13.39

LABO0089-004 07/01/2013

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 26.98	15.42
Group 2.....	\$ 27.66	15.42
Group 3.....	\$ 28.37	15.42
Group 4.....	\$ 29.17	15.42
Group 5.....	\$ 31.10	15.42

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber, Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing);

Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter, Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting, m makeing of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prfefabricated Manhole Installer, Sandblast Nozzleman (Water Balsting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic traking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LABO0300-005 01/01/2013

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 27.35	14.95

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LAB01184-001 07/01/2013

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer...	\$ 30.11	11.83
(2) Vehicle Operator/Hauler.	\$ 30.28	11.83
(3) Horizontal Directional Drill Operator.....	\$ 32.13	11.83
(4) Electronic Tracking Locator.....	\$ 34.13	11.83
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	\$ 31.06	14.53
GROUP 2.....	\$ 32.36	14.53
GROUP 3.....	\$ 34.37	14.53
GROUP 4.....	\$ 36.11	14.53

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades,

fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

LABO1414-003 08/07/2013

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER....	\$ 27.45	16.36
PLASTER TENDER.....	\$ 30.00	16.36

Work on a swing stage scaffold: \$1.00 per hour additional.

Work at Military Bases - \$3.00 additional per hour:
 Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2013

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 26.49	11.73
(2) All Other Work.....	\$ 29.82	11.73

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 01/01/2013

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 25.08	13.19
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes		

up to and including four stories).....	\$ 21.00	12.81

PAIN0036-012 10/01/2013		
	Rates	Fringes
GLAZIER.....	\$ 38.80	17.25

PAIN0036-019 02/01/2009		
	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 26.77	11.75

PLAS0200-005 08/07/2013		
	Rates	Fringes
PLASTERER.....	\$ 36.11	13.13
<p>NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional per hour.</p>		

PLAS0500-001 07/01/2013		
	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.47	13.35
GROUP 2.....	\$ 28.12	13.35
GROUP 3.....	\$ 30.75	13.95
<p>CEMENT MASONS - work inside the building line, meeting the following criteria:</p> <p>GROUP 1: Residential wood frame project of any size; work classified as Type III, IV or Type V construction; interior tenant improvement work regardless the size of the project; any wood frame project of four stories or less.</p> <p>GROUP 2: Work classified as type I and II construction</p> <p>GROUP 3: All other work</p>		

PLUM0016-006 07/01/2013		
	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton.....	\$ 48.10	20.16
Plumber and Pipefitter		
All other work except		

work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....	\$ 43.60	20.16
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....	\$ 42.26	19.18
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....	\$ 34.11	17.51

PLUM0016-011 07/01/2013		
	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential.....	\$ 35.25	16.08

PLUM0345-001 07/01/2013		
	Rates	Fringes
PLUMBER		
Landscape/Irrigation Fitter..	\$ 27.85	18.81
Sewer & Storm Drain Work....	\$ 32.50	16.93

ROOF0045-001 07/01/2012		
	Rates	Fringes
ROOFER.....	\$ 25.08	7.28

SFCA0669-001 07/01/2013		
	Rates	Fringes
SPRINKLER FITTER.....	\$ 34.86	18.66

SHEE0206-001 01/01/2012		
	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton.....	\$ 35.05	19.23
Except Camp Pendleton.....	\$ 33.05	19.23
Sheet Metal Technician.....	\$ 25.22	6.69

SHEET METAL TECHNICIAN - SCOPE:

a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system b. New single family residential buildings including tracts. c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded. d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under \$1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

 TEAM0036-001 07/01/2012

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 15.40	20.50
GROUP 2.....	\$ 24.99	20.50
GROUP 3.....	\$ 25.19	20.50
GROUP 4.....	\$ 25.39	20.50
GROUP 5.....	\$ 25.59	20.50
GROUP 6.....	\$ 26.09	20.50
GROUP 7.....	\$ 27.59	20.50

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +\$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually

each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

3. FEDERAL LABOR STANDARDS PROVISIONS (Office of the Secretary of Labor 29 CFR 5):

Applicability

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

A. 1. Minimum Wages. (i) All laborers and mechanics employed or working upon the site of the work, (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project) will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section l(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible, place where it can be easily seen by the workers.

(ii) (A) Any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The Federal Agency or its designee shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii)(b) or (c) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding. The Federal Agency or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract, the Federal Agency or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records. (i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of 3 years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section l(b)(2)(B) of the Davis-bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section l(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii) (A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Agency or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to the Federal Agency or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i) except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired.

Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at

<http://www.dol.gov/whd/forms/wh347.pdf>

or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the Federal Agency or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to the Federal Agency, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this subparagraph for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or, owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5 (a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the “Statement of Compliance” required by subparagraph A.3.(ii)(b) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under subparagraph A.3.(i) of this section available for inspection, copying, or transcription by authorized representatives of the Federal Agency or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, Federal agency or its designee may, after written notice to the contractor, sponsor, applicant or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and Trainees. (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman’s hourly rate) specified in the contractor’s or subcontractor’s registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice’s level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination.

Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under 29 CFR Part 5 shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract

6. Subcontracts. The contractor or subcontractor will insert in any subcontracts the clauses contained in 29 CFR 5.59(a)(1) through (10 and such other clauses as the Federal Agency may by appropriate instructions require, and a copy of the applicable prevailing wage decision, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. (i) Certification of Eligibility. By entering into this contract the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1)..

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

b. Contract Work Hours and Safety Standards Act. The provisions of this paragraph b are applicable where the amount of the prime contract exceeds \$100,000. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in subparagraph (b)(1) of this section, the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (b)(1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in sub paragraph (b)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The Federal Agency or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (b)(1) through (4) of this section.

C. In addition to the clauses contained in paragraph (b), in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other statutes cited in Sec. 5.1, the Agency Head shall cause or require the contracting officer to insert a clause requiring that the contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. Further, the Agency Head shall cause or require the contracting officer to insert in any such contract a clause providing that the records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

ATTACHMENT E

SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

- 1) Standard Specifications for Public Works Construction (The GREENBOOK) currently in effect.
 - 2) The City of San Diego Standard Specifications for Public Works Construction (The WHITEBOOK).
-

SECTION 1 – TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

1-2 TERMS AND DEFINITIONS.

Normal Working Hours. To the City Supplement, ADD the following:

The Normal Working Hours are 8:30 AM to 3:30 PM.

SECTION 2 - SCOPE AND CONTROL OF WORK

2-3.2 Self Performance. DELETE in its entirety and SUBSTITUTE with the following:

1. You must perform, with your own organization, Contract work amounting to at least 50% of the base bid alone or base bid and any additive or deductive alternate(s) that together when added or deducted form the basis of award.
2. The self performance percentage requirement will be waived for contracts when a “B” License is required or allowed.

2-5.3.1 General. To the City Supplement, ADD the following

7. For products for which an AML is available, products listed in the AML shall be used. A submittal review will be conducted for products not identified on an AML on a case-by-case basis when:
 - a) The product type or category is not in the AML.
 - b) The AML does not list at least two available manufacturers of the product.
 - c) The material or manufacturer listed in the AML is no longer available. Documentation to substantiate the product is no longer available or in production is required as part of the submittal.

In the case of conducting a submittal review when required by the Plans or Special Provisions, or when requested by the Engineer, all submittals shall be accompanied by the City’s submittal form.

2-7 SUBSURFACE DATA. ADD the following:

4. In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests of subsurface conditions at the Work Site:
 1. Geotechnical Investigation dated January 5, 2013 by Southland Geotechnical Consultants

**ADD:
2-11.2**

Geotechnical Inspection. To the City Supplement, ADD the following:

Continuous and periodic geotechnical inspection will be provided by the City. All inspection must be performed in accordance with Appendix I and the table below.

The Contractor is responsible for notifying the inspector at least five working days prior to performing any work that requires geotechnical inspection.

Required Verification and Inspection of Soils		
Verification and Inspection	Continuous Inspection	Periodic Inspection
1. Verify Materials Below Footings are Adequate to Achieve The Design Bearing Capacity.	-	X
2. Verify Excavations are Extended to Proper Depth and Have Reached Proper Materials.	-	X
3. Perform Classification and Testing of Controlled Fill Materials at Retaining Wall Footing and Retaining Wall Backfill	-	X
4. Verify Use of Proper Materials, Densities And Lift Thickness During Placement and Compaction of Controlled Fill at Retaining Wall Footing and Retaining Wall Backfill.	X	-
5. Prior to Placement of Controlled Fill, Observe Subgrade and Verify That Site Has Been Prepared Properly.	-	X

2-14.3 Coordination. To the City Supplement, ADD the following:

Other adjacent projects are scheduled for construction for the same time period in the vicinity of Hillery Drive between I-15 and Westview Parkway. Coordinate the Work with the adjacent project(s) as listed below:

- a) Mira Mesa/Scripps Ranch Direct Access Ramp Project, California Department of Transportation.

SECTION 4 - CONTROL OF MATERIALS

4-1.3.6 Preapproved Materials. To the City Supplement, ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

4-1.6 Trade Names or Equals. ADD the following:

You must submit your list of proposed substitutions for “an equal” (“or equal”) item(s) **no less than 15 Working Days prior to Bid due date** and on a City form when provided by the City.

SECTION 6 - PROSECUTION, PROGRESS, AND ACCEPTANCE OF THE WORK

6-7.4 Project Phasing. To the City Supplement, ADD the following:

3. The Contractor shall phase all items of work per the schedule phasing below. Any deviations from the following phasing shall require the approval of the Engineer.

Phase I – All improvements shown at the intersection of Black Mountain Road and Hillery Drive, and all improvements along Hillery Drive that are directly east of the intersection of Black Mountain Road and Hillery Drive.

Phase II – All remaining items of work.

SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

7-3 LIABILITY INSURANCE. DELETE in its entirety and SUBSTITUTE with the following:

The insurance provisions herein must not be construed to limit your indemnity obligations contained in the Contract.

7-3.1 Policies and Procedures.

1. You must procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You must maintain this insurance for the duration of this contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this contract. Your liabilities under the Contract, e.g., your indemnity

obligations, is not deemed limited to the insurance coverage required by this contract.

4. Payment for insurance is included in the various items of Work as bid by you, and except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any work under this contract until you have provided and the City has approved all required insurance.
5. Policies of insurance must provide that the City is entitled to 30 days (10 days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

7-3.2 Types of Insurance.

7-3.2.1 Commercial General Liability Insurance.

1. Commercial General Liability Insurance must be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy must cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured’s contract (including the tort liability of another assumed in a business contract).
3. There must be no endorsement or modification limiting the scope of coverage for either “insured vs. insured” claims or contractual liability. You must maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense must be outside the policy limits. Policy coverage must be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

7-3.2.2 Commercial Automobile Liability Insurance.

1. You must provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles (“Any Auto”).

2. All costs of defense must be outside the limits of the policy.

7-3.3 Rating Requirements. Except for the State Compensation Insurance Fund, all insurance required by this contract as described herein must be carried only by responsible insurance companies with a rating of, or equivalent to, at least “A-, VI” by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

7-3.3.1 Non-Admitted Carriers. The City will accept insurance provided by non-admitted, “surplus lines” carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers must be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

7-3.4 Evidence of Insurance. Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document must be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

7-3.5 Policy Endorsements.

7-3.5.1 Commercial General Liability Insurance

7-3.5.1.1 Additional Insured.

- a) You must provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
- b) To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
- c) The additional insured coverage for projects for which the Engineer’s Estimate is \$1,000,000 or more must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, (c) your work, e.g., your completed operations performed by you or on your behalf, or (d) premises owned, leased, controlled, or used by you.
- d) The additional insured coverage for projects for which the Engineer’s Estimate is less than \$1,000,000 must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, or (c) premises owned, leased, controlled, or used by you.

7-3.5.1.2 Primary and Non-Contributory Coverage. The policy must be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it must provide that any insurance maintained by the City

and its elected officials, officers, employees, agents and representatives must be in excess of your insurance and must not contribute to it.

7-3.5.1.3 Project General Aggregate Limit. The policy or policies must be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work must reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit must be in addition to the aggregate limit provided for the products-completed operations hazard.

7-3.5.2 Commercial Automobile Liability Insurance.

7-3.5.2.1 Additional Insured. Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

7-3.6 Deductibles and Self-Insured Retentions. You must pay for all deductibles and self-insured retentions. You must disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

7-3.7 Reservation of Rights. The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this contract.

7-3.8 Notice of Changes to Insurance. You must notify the City 30 days prior to any material change to the policies of insurance provided under this contract.

7-3.9 Excess Insurance. Policies providing excess coverage must follow the form of the primary policy or policies e.g., all endorsements.

7-4 WORKERS' COMPENSATION INSURANCE. DELETE in its entirety and SUBSTITUTE with the following:

7-4.1 Workers' Compensation Insurance and Employers Liability Insurance.

1. In accordance with the provisions of §3700 of the California Labor Code, you must provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.

2. Limits for this insurance must be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you must comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

7-4.1.1 Waiver of Subrogation.

The policy or policies must be endorsed to provide that the insurer will waive all rights of subrogation against the City, and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from work performed by the Named Insured for the City.

7-8.6 Water Pollution Control. ADD the following:

1. Based on a preliminary assessment by the City, the Contract is subject to WPCP.

7-10.5.3 Steel Plate Covers. Table 7-10.5.3(A), REVISE the plate thickness for 5'-3" trench width to read 1 3/4".

7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT. To the City Supplement, fourth paragraph, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

Your duty to indemnify and hold harmless does not include any claims or liability arising from the established active or sole negligence, or willful misconduct of the City, its officers, or employees.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

8-2 FIELD OFFICE FACILITIES. To the City Supplement, DELETE in its entirety.

SECTION 9 - MEASUREMENT AND PAYMENT

9-3.2.5 Withholding of Payment. To the City Supplement, item i), DELETE in its entirety and SUBSTITUTE with the following:

- i) Your failure to comply with 7-2.3, "PAYROLL RECORDS" and 2-16, "CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM."

**ADD:
9-3.7**

Compensation Adjustments for Price Index Fluctuations. This Contract is not subject to the provisions of The WHITEBOOK for Compensation Adjustments for Price Index Fluctuations for the paving asphalt.

SECTION 201 – CONCRETE, MORTAR AND RELATED MATERIALS

**ADD:
202-2.3**

Sound Wall Masonry Block. Masonry blocks for sound walls shall be split-face and colored (RCP Block and Brick’s “Yellow Gold”, or equivalent). Mortar (color to match concrete pilasters), precast concrete cap (color to match concrete pilasters) and CMU samples shall be submitted to Owner for approval.

SECTION 203 – BITUMINOUS MATERIALS

**ADD:
203-6.1.1**

Designation. Asphalt Concrete shall be B-PG 64-10.

203-13.2.1

Paving Asphalt. DELETE in its entirety and SUBSTITUTE with the following:

Paving asphalt shall be PG 64-10 conforming to 203-1.

203-13.2.2.2

Gradation. ADD the following:

The gradation shall be CRUMAC-GG-B.

SECTION 209 – STREET LIGHTING AND TRAFFIC SIGNAL MATERIALS

209-6.4

Induction Cobra Head Luminaire. To the City Supplement, CORRECT certain section numbering as follows:

OLD SECTION NUMBER	TITLE	NEW SECTION NUMBER
209-6.4.7	Luminaire Identification	209-6.4.8
209-6.4.8	Photometric Documentation	209-6.4.9
209-6.4.9	Quality Assurance	209-6.4.10

209-6.4.3

Controls. To the City Supplement, item 2, DELETE in its entirety and SUBSTITUTE with the following:

- Furnish a photo cell with each fixture. The photo cell shall have a silicon light sensor that complies with ANSI 136.1 0 – 1996, and have MOV surge protection. The photo cell shall have a minimum four year warranty. The photo cell shall fail in the “on” control. It shall be capable of inverse ratio controls. It shall be suitable for roadway applications. The photo cell shall be American Electric Lighting model number DP 124-1.5-T-J-BK or approved equal.

ADD:

209-9.6 Lighted Crosswalk.

209-9.6.1 Lighted Crosswalk System. Furnish and install a Swarco Lanelight Marking System or equal for Lighted Crosswalk which shall consist of a hardwired In-Roadway Illuminated Marker System.

209-9.6.2 Pedestrian Crossing Marker System.

1. Shall include Light emitting diode (LED) in-roadway illuminated marker units:
 - a) Featuring unidirectional illumination pointed at oncoming traffic and away from the pedestrian crossing area.
 - b) Placed along:
 - i. The full span of both sides of the crosswalk,
 - ii. Where provided for in the design, the centerline of the road approaching the crosswalk, from both directions.
 - c) Enclosed in a durable stainless steel housing not extending more than 3mm above the pavement,
 - d) Containing Swarco Futurit Ultra Bright, non-diffused, yellow / white LED lamps in accordance with the system specifications.
2. When activated, shall operate in a synchronized mode,
 - a) Crossing units shall flash at 0.8 to 1.0 hz, with option of specialized flash rate,
 - b) Approach units operate in a sequencing strobe at a rate of 3 to 5 hz commencing with the unit closest to the crossing,
 - c) Approach strobe to activate on initiation of each crossing markers “on” cycle.
3. Includes electrical and electronic components constructed in accordance with applicable electrical codes and regulations, and as specified herein. Electronics to be housed in NEMA style enclosures, either stand-alone or pole mounted. System electronics to include:
 - a) 24-volt power supply,
 - b) Process Control Unit (PCU), which may include programmable sequencing options.
4. Shall include one of the following two activation options, as specified in the plans:
 - a) Activation OPTION A:

- i. The In-Roadway Signal system will be manually activated at the sidewalk or shoulder located at the outside edges of the roadway, and in the islands.
 - ii. Manual activation shall consist of active ADA momentary contact push button assemblies.
 - b) Activation OPTION B:
 - i. The In-Roadway Signal system will be proximity activated at the sidewalk or shoulder located at the outside edges of the roadway, and in the islands.
 - ii. Proximity activation shall consist of active photoelectric posts, footpad, video, or microwave overhead assemblies.
- 5. Pedestrian signage: : At the pedestrian push button activation site, a diamond grade strong yellow green, crossing sign, shall be installed, and labeled thus:

“PUSH BUTTON FOR CROSSWALK WARNING DEVICE” over the “person walking” symbol and “CROSS WITH CAUTION” at the bottom of the sign
- 6. A supplier who is experienced in providing this type of system shall furnish all materials and equipment. At a minimum, support provided by the Supplier shall include materials and equipment, engineering, product support, and field services.

209-9.6.3 Lane Guidance Systems.

- 1. Shall include Light emitting diode (LED) in-roadway illuminated marker units:
 - a) Featuring unidirectional illumination pointed at oncoming traffic.
 - b) Placed along:
 - i. Where provided for in the design, the dividing lines of the road (white light emitting marker),
 - ii. Where provided for in the design, the centerline of the road (amber light emitting marker),
 - iii. Where provided for in the design, to create a temporary marking indicating a road outline for the purpose of directing traffic along a pre programmed route, in areas of pavement not otherwise marked.
 - c) Enclosed in a durable stainless steel housing not extending more than 3mm above the pavement,
 - d) Marker units in systems exceeding six units shall be capable of individual or group function controlled by computer program, originating

in the controller, addressing each individual marker over one common conductor pair.

- e) Containing Swarco Futurit Ultra Bright, non-diffused yellow or white LED lamps in accordance with the system specifications.
2. Modules shall flash at 0.8 to 1.0 hz,
 3. Includes electrical and electronic components constructed in accordance with applicable electrical codes and regulations, and as specified herein. Electronics to be housed in NEMA style enclosures, either stand-alone or pole mounted. System electronics to include:
 - a) 15-volt to 48 volt transformer, according to system design,
 - b) Process Control Unit (PCU), which may include programmable or pre programmed sequencing options and network communication capability.
 4. A supplier who is experienced in providing this type of system shall furnish all materials and equipment. At a minimum, support provided by the Supplier shall include materials and equipment, engineering, product support, and field services.

209-9.6.4 High Performance LED Road Marker Units.

1. Mechanical Characteristics – Upper housing
 - a) Nominal Dimensions – diameter=150mm; height=30mm,
 - b) Material – Heat treated, cast stainless steel or equal,
 - c) Lens – prismatic- Borofloat,
 - d) Assembly – M8x20 DIN912 - stainless steel A4,
 - e) Tested - Water ingress to IP68.
2. Mechanical Characteristics – lower housing
 - a) Nominal Dimensions – diameter=178.5mm; housing height=35mm,
 - b) Material – Corrosion resistant aluminum alloy or equal,
 - c) Tested - Minimum of 5,000kg compressive strength,
 - d) Install depth w/wiring sub base – 65mm,
 - e) Optical Characteristics,
 - f) Bulbs – 14 (fourteen) proprietary Swarco Futurit ultra bright design,
 - g) Colorimetrics Amber – CIE (x536, y444 / x547, y452 / x613, y387 / x583, y387),
 - h) Colorimetrics White – Color temperature 4500 to 5500K,
 - i) Luminous Intensity – minimum 125cd, (>1,250,000 cd/m²)

- j) Visibility – range up to 900m depending on site conditions.
- 3. Electrical Characteristics
 - a) Supply Voltage - 15 to 48VDC,
 - b) Power consumption /marker - variable 1.0W nighttime operation, 3.0W daytime amber/ 2.0W daytime white,
- 4. Feedback Voltage - 24VDC,
 - a) PWM Amplitude - 24VDC at 500Hz,
 - b) Ambient temperature range - -30C to 65C.
- 5. Installation into Roadway
 - a) Refer to install manual in master product record
- 6. Mounting and Bedding
 - a) ITEM Permaset Methyl Methacrylate (MMA) or approved Epoxy Resin;

209-9.6.5 Electrical and Electronic Components.

- 1. Line
 - a) Required Protection - Line disconnect and GFI / RCD.
- 2. System Transformer
 - a) Input - 105-130VAC,
 - b) Output - 24VDC. Wattage requirement determined by system.
- 3. Solar Power
 - a) System shall be capable of being powered by an external solar/battery package
- 4. Process Control Unit (PCU)
 - a) Supply Voltage – 15 to 48V DC (typically 24V DC).
- 5. Controller
 - a) Input rejection protection – pi filter,
 - b) Transient/Inrush current limiting – internal,
 - c) Overload – fuse (slow blow),
 - d) Power Factor Correction – provided,
 - e) Power Output limiting – 120%,

- f) Short Circuit – Continuous,
 - g) Day/ night mode control – automatic,
 - h) Night Brightness Adjust,
 - i) ON Time Selector,
 - j) Chase Line Sequencing Mode Selector.
6. Enclosure
- a) Rating – Nema 3R Equivalent,
 - b) Material – Plastic,
 - c) Finish – Grey,
 - d) Mounting – Stand alone or Pole Mount,
 - e) Access – Front Swing Door,
 - f) Lock System – Draw catch/ Lock Option.
7. Push-to-Walk Assemblies
- a) Frame and 5x7 sign: “Push button for crosswalk warning device; cross with caution” Optional embedded LEDs to flash synchronous with system,
 - b) Mounting – (2) bolt surface or to pole.
 - c) Enhanced pushbutton system – Polara Model X various configurations, use with Polara Model X controller.
8. In-Road Wiring System
- a) Wiring harness – 5 conductor #18 (power) or #20 (control) AWG, in emulsion filled 3/8”od flexible PVC conduit with waterproof strain relief adaptors,
 - b) Walk Activation Circuit – Integrated in crosswalk wiring harness – auxiliary conductors allow connection without additional wiring,
 - c) Sub-Base Encapsulation – 3M Scotchcast 2112, or equal.
 - d) Waterproof connectors: Dryconn Aqua/Orange silicon filled w/cap.

209-9.6.6

Operating Environment. All components of the electronics shall operate correctly as defined in these specifications and manufacturers tolerances under the following environmental conditions:

- 1. MTBF
 - a) > 100,000 hours at 25°C.
- 2. Ambient Temperature
 - a) The equipment shall function within a temperature range between 30°C and 65°C.

3. Relative Humidity
 - a) The equipment shall function within a relative humidity range from 30% to 95%.
4. Forms of Precipitation
 - a) The equipment shall function under all forms of precipitation (rain, sleet, snow, etc.)
5. Vibration
 - a) The equipment shall maintain its physical integrity when subjected to a vibration of 5 to 30 Hz up to 0.5 gravity applied in each of three mutually perpendicular planes.
6. Impact
 - a) The equipment shall suffer neither permanent mechanical deformation nor any change that renders the unit inoperable, when subjected to a shock of 10 gravities applied in each of three mutually perpendicular planes.
 - b) In-road units shall be classified as “snowplowable” based on this specification.
7. Non-Destruct Transient Immunity:
 - a) The equipment shall be capable of withstanding a high-energy transient having the following characteristics repeatedly applied to the alternating current input terminals (no other power connected to terminals) without failure of the test specimen:
 1. Amplitude - 1000 V, $\pm 5\%$, both positive and negative polarity.
 2. Energy Source - Capacitor, oil filled, 15 μF $\pm 10\%$, internal surge impedance less than 1 S.
 3. Repetition - Applied to the controller assembly once every 2 seconds for a maximum of 3 applications for each polarity. After the foregoing, the equipment shall perform all of its functions upon application of nominal current power.

209-9.6.7 Testing, Certification and Insurance.

- a. All components and electronics will be tested and certified to standards defined in these specifications and the manufacturers tolerances:
- b. All components and peripherals must carry full product liability insurance.

ADD: SECTION 218 – DOOR AND FRAME

218-1 DOOR AND FRAME.

Door and Frame shall be painted with all outdoor, all-weather paint in a “sandstone” color to closely match the masonry noise wall. Door and applied paint on the door and frame shall be free of defects for a period no less than 3 years from the date of

acceptance. Warrantee shall include protection against fading, chipping, flacking, rusting, cracking, discoloration and all manufacturer's defects.

All hardware including hinges, screws, pins, door handles, locks, door stops, and deadbolts shall be made of stainless steel.

Door and Frame shall be constructed of a manually operated Door Components Inc. "Polystyrene Core Door – 36 inch" and details in the specifications, Appendix H, or approved equivalent. Door frame cross section shall be F1 as shown in Appendix H, or approved equivalent.

Door frame shall be equipped with door silencers.

Door frame shall have continuous welded corners.

Door frame face shall be no greater than 2".

Door and frame shall be equipped with 3 hinges; at least one of the hinges shall be a spring hinge. Door is required to close when released with sufficient force to ensure a secure closure, but also maintain ADA compliance. Contractor is responsible for demonstrating to the Resident Engineer the door closing requirement and obtaining Resident Engineer approval for its proper functionality.

Door shall be constructed of 16 or 18 gauge steel.

Door shall be equipped with an ADA approved door handle and a deadbolt lock. 10 keys shall be provided to the Resident Engineer for each lock. Each lock shall be keyed the same. Door locking mechanism shall be rated for outdoor use and shall have a 3 year warrantee against mechanical failure and rusting.

There shall not be a raised door threshold installed. Concrete below the door shall be finished with a smooth surface to match the sidewalk on both sides of the wall as to allow storm or irrigation water flow to pass under the door unhindered.

Wall mounted door stop shall be installed. Door stop shall be equipped with a rubber contact where the door or door handle contacts the stop.

Detail sheets from Door Components Inc. have been added to the specifications as Appendix J for your reference. This in no manner constitutes an endorsement of this product or any product.

Door and Frame bid item shall include all materials, labor, warrantees, installation, and incidentals complete and in place.

SECTION 300 – EARTHWORK

300-1.3.2 Requirements. ADD the following:

- f) Traffic Signs, Striping, and Incidentals.** Contractor shall be responsible for removing and properly disposing of all traffic signs, pavement markings, pavement markers, debris, vegetation, and other incidental items necessary for completion of the project.

g) Retaining Wall Removal.

Concrete shall be removed at the locations shown on the plans or described in the special provisions, or where directed by the Engineer. Removal shall be to the lines and elevations shown, specified, or determined by the Engineer. Concrete shall be defined as all or portions of mortared rubble masonry, brick, retaining walls, spillways, dams, structures, foundations, footings, and all other portland cement concrete or masonry construction.

Existing concrete shall be cut to a true line where new concrete is to join existing concrete.

Concrete removal operations shall be performed without damage to any portion that is to remain in place. Damage to the existing concrete, which is to remain in place, shall be repaired to a condition equal to that existing prior to the beginning of removal operations. The cost of repairing existing concrete damaged by the Contractor's operations shall be at the Contractor's expense.

Existing reinforcement that is to be incorporated in new work shall be protected from damage and shall be thoroughly cleaned of adhering material before being embedded in new concrete.

300-1.4 Payment. To the City Supplement, paragraph (2), DELETE in its entirety and SUBSTITUTE with the following:

2. Payment for existing pavement removal and disposal of up to 12" thick, within the excavation e.g., trench limits, shall be included in the Bid item for installation of the mains or the Work item that requires pavement removal.

ADD the following:

Items of work, measured as specified above, and in 30-1.3.2 will be paid for at a lump sum price for removal of concrete.

Reinforcing or other steel may be encountered in portions of concrete to be removed and no additional compensation will be allowed for the removal of concrete containing steel.

Full compensation for disposal of removed concrete shall be considered as included in the contract price for Retaining Wall Removal and no separate payment will be made therefor.

No deductions will be made from any excavation quantities for the volume of concrete removed.

300-3.6

Payment. ADD the following:

Measurement. Quantities of earthwork to be paid for as Structure Excavation (Retaining Wall) and Structure Backfill (Retaining Wall) will be measured by the cubic yard. No compensation will be made for:

1. Removal of material coming into an excavation from outside the described limits
2. Volume of backfill occupied by the new structure
3. Furnishing and placing backfill material in an excavation that is below or outside the described limits

Unless otherwise shown, quantities for structure excavation and backfill are computed as follows:

1. Horizontal limits are vertical planes 1 foot outside neat lines of footings.
2. Upper limit for structure excavation is the ground surface before starting construction activities.
3. The upper limit for structure backfill is the finished grading plane or the finished slope lines. If the Engineer authorizes a higher limit, the limit for payment is the authorized higher limit.
4. The lower limit is a plane at the bottom of the completed footings.

If the Engineer authorizes an increase in depth or width of structure excavation (or if such overexcavation is shown on the plans), excavation to a depth of 2 feet below and for a width up to 3 times the outside width of the footing is paid for at the bid price for structure excavation. Payment for structure backfill is similarly increased and paid for at the bid price for structure backfill.

Full compensation for controlling and removing water from excavations and for furnishing and installing or constructing all cofferdams and all other facilities necessary to the operations (including but not limited to shoring) and their subsequent removal, if required by the Engineer, shall be considered as included in the contract price paid for structure excavation.

Full compensation for removal and disposal of Structure Excavation (Retaining Wall) shall be considered as included in the contract price for structure excavation and no separate payment will be made therefor.

Full compensation for furnishing and installing the retaining wall drainage system (including but not limited to pervious backfill material, filter fabric, waterproofing and drainage pipes) shall be considered as included in the contract price paid per cubic yard for Structure Backfill (Retaining Wall) and no separate payment will be made therefor.

SECTION 302 – ROADWAY SURFACING

302-3 Preparatory Repair Work. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

302-3 Preparatory Repair Work.

1. Prior to roadway resurfacing or the application of slurry, the Contractor shall complete all necessary preparation and repair work to the road segment e.g., tree trimming, weed spray, weed abatement, crack sealing, asphalt repair, hump removal, miscellaneous asphalt patching, removal of raised pavement markers, removal of pavement markings, etc. and as specified in the Special Provisions.
2. Preparatory work shall include, but not be limited to, tree trimming, weed spray, weed abatement, crack sealing, asphalt repair i.e., mill and pave, hump removal, miscellaneous asphalt patching, removal of raised pavement markers, removal of pavement markings, etc.
3. The Contractor shall repair areas of distressed asphalt concrete pavement by milling or removing damaged areas of pavement to a minimum depth of 2” for Residential streets, and a minimum depth of 3” for all others to expose firm and unyielding pavement. The Contractor shall prepare subgrade as needed and install a minimum of 2” for residential streets, and a minimum of 3” for all others, of compacted asphalt concrete pavement over compacted native material as directed by the Engineer.
4. If, in order to achieve the minimum specified depth, the base material is exposed, the material shall be compacted to 95% relative compaction to a depth 10” below the finished grade (dig out). Compaction tests shall be made to ensure compliance with the specifications. The Engineer will determine when and where the test will occur. The City will pay for the soils testing required by the Engineer, which meets the required compaction. The Contractor shall reimburse the City for the cost of retesting failing compaction tests. If additional base material is required, the Contractor shall use Class 2 Aggregate Base in accordance with 400-2.4, “Class 2 Aggregate Base.”
5. Recycled base material shall conform to Crushed Miscellaneous Base Material in accordance with 200-2.4, “Class 2 Aggregate Base.”
6. Prior to replacing asphalt, the area shall be cleaned by removing all loose and damaged material, moisture, dirt, and other foreign matter and shall be tack coated in accordance with 302-5.4 “Tack Coat.”
7. The Contractor shall install new asphalt within the repair area or for patches in accordance with 302-5, “ASPHALT CONCRETE PAVEMENT.” Asphalt concrete shall be C2-PG 64-10 in compliance with 400-4, “ASPHALT CONCRETE.”
8. No preparatory asphalt work shall be done when the atmospheric temperature is below 50 °F or during unsuitable weather.

9. Following the asphalt placement, the Contractor shall roll the entire area of new asphalt in both directions at least twice. The finished patch shall be level and smooth in compliance with 302-5.6.2 "Density and Smoothness." After placement and compaction of the asphalt patch, the Contractor shall seal all finished edges with a 4" wide continuous band of SS-1H.
10. The minimum dimension for each individual repair shall be 4' x 4' and shall be subject to the following conditions:
 - a) If the base material is exposed to achieve the required minimum removal thickness, the base material shall be prepared conforming to 301-1, "SUBGRADE PREPARATION."
 - b) When additional base material is required, then the contractor shall use Class 2 Aggregate Base in accordance with 400-2.2, "Class 2 Aggregate Base." Recycled base material shall conform to Crushed Miscellaneous Base Material in accordance with 200-2.4, "Crushed Miscellaneous Base."
 - c) The Contractor may use grinding as a method for removal of deteriorated pavement when the areas indicated for removal are large enough (a minimum of the machine drum width) and when approved by the Engineer.
 - d) For both scheduled and unscheduled base repairs, failed areas may be removed by milling or by excavation provided that the edges are cut cleanly with a saw. The areas shall be cleaned and tack coated in accordance with 302-5.4, "Tack Coat" before replacing the asphalt. The areas for scheduled repairs have been marked on the street.

302-3.1 Asphalt Patching.

1. Asphalt patching shall consist of patching potholes, gutter-line erosion, and other low spots in the pavement that are deeper than ½" per 302-5.6.2, "Density and Smoothness." These areas are generally smaller and more isolated than those areas in need of mill and pave.
2. The areas requiring patching have been identified in the Contract Documents, marked on the streets, or as directed by the Engineer. The Contractor shall identify any new areas that may require patching prior to slurry work to ensure the smoothness and quality of the finished product.
3. The Contractor shall identify and repair any areas that may require patching, prior to the placement of slurry seal for smooth finished product.
4. Asphalt overlay shall not be applied over deteriorated pavement. Preparatory asphalt work shall be completed and approved by the Engineer before proceeding with asphalt overlay.
5. The Contractor shall remove distressed asphalt pavement either by saw cutting or milling, to expose firm and unyielding pavement; prepare subgrade (as

needed); and install compacted asphalt concrete pavement over compacted native material as directed by the Engineer.

6. Prior to replacing asphalt, the area shall be cleaned and tack coated per 302-5.4, "Tack Coat".
7. Following the asphalt placement, the Contractor shall roll the entire patch in both directions covering the patch at least twice.
8. After placement and compaction of the asphalt patch, the Contractor shall seal all finished edges with a 4" wide continuous band of SS-1H.
9. Base repairs shall not exceed 20% RAP in content.

302-3.2 Payment.

1. Payment for replacement of existing pavement when required shall be included in the unit bid price for Asphalt Pavement repair for the total area replaced and no additional payment shall be made regardless of the number of replacements completed. No payment shall be made for areas of over excavation or outside trench areas in utility works unless previously approved by the Engineer. No payment for pavement replacement will be made when the damage is due to the Contractor's failure to protect existing improvements. The Contractor shall reimburse the City for the cost of retesting all failing compaction tests.
2. The areas and quantities shown on the road segments and in appendices are given only for the Contractor's aid in planning the Work and preparing Bids. The Engineer will designate the limits to be removed and these designated areas shall be considered to take precedent over the area shown in an Appendix to the Contract Documents. The quantities shown in the appendices are based on a street assessment survey and may vary.
3. At the end of each day, the Contractor shall submit to the Engineer an itemized list of the asphalt pavement repair work completed. The list shall include the location of the work and the exact square footage of the repair.
4. Preparatory repair work and tack coating will be paid at the Contract unit price per ton for Asphalt Pavement Repair. No payment shall be made for areas of over excavation unless previously approved by the Engineer.
5. Milling shall be included in the Bid item for Asphalt Pavement Repair unless separate Bid item has been provided.
6. Payment for miscellaneous asphalt patching shall be included in the Contract unit price for slurry and no additional payment shall be made therefore.

302-5.1.1 Damaged AC Pavement Replacement. To the City Supplement, DELETE in its entirety.

302-5.1.2 Measurement and Payment. To the City Supplement, DELETE in its entirety.

SECTION 303 - CONCRETE AND MASONRY CONSTRUCTION

303-1.3.1 Forms. ADD the following.

Concrete form liners for the cast in place concrete wall portion with cobblestone architectural treatment, shall adhere to the following:

1. Design Parameters

- a. Design and pattern of the concrete surface shall follow the manufacturer's standard drawing. The completed colored and formed concrete surface shall match natural material as closely as possible. Patterning of simulated stone masonry shall appear natural and non-repeating. Seam lines or match lines caused from two of more molds coming together will not be apparent when viewing final wall. Final coloration of cast stone concrete surface shall simulate the appearance of real stone including the multiple colors, shades, flecking, and veining that is apparent in real stone. It shall also demonstrate the colors that may be apparent from aging, such as staining from oxidation, rusting and/or organic staining from soil and /or vegetation. Note that a sample and mockup are required. Upon approval by Architect/Engineer and Owner, mockup shall serve as quality standard for the project.
- b. Submittal: General Contractor is required to submit a 24" x 24" sample of the simulated stone masonry finish. Sample is to demonstrate the finish per the design requirements. Approval of sample panel is required by the Resident Engineer. 14 days shall be allowed for review by the Resident Engineer for the first submittal and for subsequent submittals, if rejected.
- c. Shop Drawings: Plan, elevation, and details to show overall pattern, joint locations, form tie locations, and end, edge and other special conditions is required.
- d. Samples: Form ties, sample and description, showing method of separation when forms are removed is required.
- e. Manufacturer of simulated stone masonry molds and custom coloring system shall have a minimum of five recent projects making stone masonry molds and color stains to create formed concrete surfaces to match natural stone shapes, surface textures, and colors, similar to this project.
- f. Pre-Installation Meeting: Schedule a conference with manufacturer representative to assure understanding of simulated stone masonry, molds use, color application, requirements for construction of mockup, and to coordinate the work.

- g. Apply color stain when ambient temperatures is between 50 and 100 degrees F. Consult manufacturer if conditions differ from this requirement.
- h. Schedule color stain application with earthwork and back-filling of wall areas making sure that all simulated stone texture is colored to finished grade. Delay adjacent plantings until color application is completed. Coordinate work to permit coloring applications without interference from other trades.

2. Materials

- a. Simulated masonry molds shall be reusable and made of high-strength urethane, easily attachable to forms. Molds shall not compress more than 1/4 in. when concrete is poured at rate of 10 vertical feet per hour. Molds shall be removable without causing deterioration of surface or underlying concrete. The wall mold pattern shall be #1204 by Custom Rock or #1577 from Spec Formliners, or approved equivalent.
- b. Release agent shall be compatible with simulated stone masonry molds and with color stain system to be applied to surface. Consult manufacturer.
- c. Form ties shall be made of either metal or fiberglass. Using metal ties, which result in a portion of the tie permanently embedded in the concrete, shall be designed to separate at least one inch back from finished surface, leaving only a neat hole that can be plugged with patching material. Contractor shall submit the type of form ties to the engineer, project designer, or Owner for approval prior to use in this work, D. Mortar Joints: Joints shall be colored to simulate real mortar.
- d. Special stain mix as provided by manufacturer or approved equivalent, shall achieve color variations present in the natural stone being simulated for this project, as required by Architect/Engineer and Owner as referenced in the design requirements. Stain shall create a surface finish that is breathable (allowing water vapor transmission), and that resists deterioration from water, acid, alkali, fungi, sunlight or weathering. Stain mix shall be a waterborne, low V.O.C. material, less than 180 grams/liter.
- e. Formed concrete installers shall have five recent projects pouring vertically formed architectural concrete. Installer shall be trained in manufacturer's special techniques in order to achieve realistic surfaces.
- f. Mockup shall be built a minimum of 45 days before work starts, using same materials, methods and work force that will be used for the project. Architect/Engineer and Owner will determine specific

requirements and location, and whether mockup shall be incorporated into the project.

- g. The mockup size shall be 25 sq. ft., or larger, if needed to adequately illustrate the pattern and texture. Include an area to demonstrate wall mold butt joint and if appropriate, continuation of pattern through expansion joint. After concrete work on mockup is completed and cured for a minimum of 28 days, and after surface is determined to be acceptable for coloring, apply color stain system. After coloring is determined to be acceptable by the Resident Engineer, construction of project may proceed, using mockup as quality standard.
- h. Simulated Stone Masonry Molds preparation shall be clean and make free of buildup prior to each pour. Inspect for blemishes or tears. Repair if needed following manufacturer's recommendations.
- i. Simulated Stone Masonry Molds attachments shall place stone molds with less than 1/4 inch separation between them. Attach molds to form securely following manufacturer's recommendations.
- j. Form release agent shall be applied following manufacturers' recommendations.
- k. Form stripping and related construction shall avoid creating defects in finished surface.
- l. If the pattern has molds connecting through the middle of the stones, carefully remove the seam line created by abutting molds. Match the texture and shape of the surrounding stone, avoiding visible seams or mold marks.
- m. Place form ties at thinnest points of molds (high points of finished wall). Neatly patch the remaining hole after disengaging the protruding portion of the tie so that it will not be visible after coloring the concrete surface.
- n. Where an expansion joint must occur at a point other than at mortar or rustication joints, such as at the face of concrete texture, which is to have the appearance of stone, consult manufacturer for proper treatment of expansion material.
- o. All Simulated Stone surfaces that are to be stained shall be at least 30 days old.
- p. Clean surface prior to application of stain materials to assure that surface is free of latency, dirt, dust, grease, efflorescence, paint, or other foreign material, following manufacturer's instructions for surface preparation. Do not sandblast. Preferred method to remove latency is pressure washing with water, minimum 3000 psi (a rate of three to four gallons per minute), using fan nozzle perpendicular to and at a distance of one or two feet from surface. Completed surface

shall be free of blemishes, discoloration, surface voids, and unnatural form marks.

- q. Where exposed soil or pavement is adjacent which may spatter dirt or soil from rainfall, or where surface may be subject to over spray from other processes, provide temporary cover of completed work.

303-1.11 Payment. ADD the following:

Architectural Treatment (Cobblestone) will be measured and paid for by the square foot. The contract price paid per square foot for cobblestone architectural treatment shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in architectural treatment, complete in place, including test panels, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.

303-4.1.1 General. ADD the following:

Sound Wall Masonry Block.

Masonry blocks for sound walls shall be split-face and colored (RCP Block and Brick's "Yellow Gold", or equivalent). Mortar (color to match concrete pilasters), precast concrete cap (color to match concrete pilasters) and CMU samples shall be submitted to Owner for approval.

303-6.1 General. ADD the following:

The Contractor shall prepare a 16 sq. ft. sample mockup, or larger if needed to adequately illustrate the pattern and texture using the same materials, methods, and workforce as that which will be used for the project. After mockup is determined to be acceptable by the Resident Engineer, construction of stamped/colored concrete may proceed, using mockup as quality standard.

303-6.5 Pattern. ADD the following:

Stamped concrete pattern for the chicane medians on Rickert Road shall be Calico Construction Products number RS150 "Decorative Concrete Stamp Random River Rock" or approved equivalent.

303-7.1 General. ADD the following:

Contractor shall provide "San Diego Buff," colored concrete for the chicane medians on Rickert Road Color shall be per Method B (Integral Color).

Contractor shall prepare a 16 sq. ft. sample mockup, or larger if needed to adequately illustrate the pattern and texture using the same materials, methods, and workforce as that which will be used for the project. After mockup is determined to be acceptable by the Resident Engineer, construction of stamped/colored concrete may proceed, using mockup as quality standard.

SECTION 306 – UNDERGROUND CONDUIT CONSTRUCTION

306-1 OPEN TRENCH OPERATIONS. To the City Supplement, CORRECT certain section numbering as follows:

OLD SECTION NUMBER	TITLE	NEW SECTION NUMBER
306-1.8	House Connection Sewer (Laterals) and Cleanouts	306-1.9
306-1.7.1	Payment	306-1.9.1
306-1.7.2	Sewer Lateral with Private Replumbing	306-1.9.2
306-1.7.2.1	location	306-1.9.2-1
306-1.7.2.2	Permits	306-1.9.2-2
306-1.7.2.3	Submittals	306-1.9.2-3
306-1.7.2.4	Trenchless Construction	306-1.9.2-4
306-1.7.2.5	Payment	306-1.9.2-5
306-1.7.3.6	Private Pump Installation	306-1.9.2-6
306-1.7.3.7	Payment	306-1.9.2-7

306-1.6 Basis of Payment for Open Trench Installations. ADD the following:

Payment for imported backfill when the Contractor elects to import material from a source outside the project limits and when authorized by the Engineer shall be included in the Bid unit price for Imported Backfill. The price shall include the removal and disposal of unsuitable materials.

SECTION 314 – TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS, AND PAVEMENT MARKERS

ADD:

314-5 Traffic Signs.

314-5.1 General. Contractor is directed to Section 56 SIGNS of the State of California Standard Specifications 2010 edition for construction of traffic signs.

SECTION 705 – WATER DISCHARGES

705-2.6.1 General. Paragraph (3), CORRECT reference to Section 803 to read “Section 703.”

705-2.6.3 Community Health and Safety Plan. To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

705-2.6.3 **Community Health and Safety Plan.** See 703-2, “Community Health and Safety Plan.”

SECTION 707 – RESOURCE DISCOVERIES

ADD:

707-1.1 **Environmental Document.** The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a **Mitigated Negative Declaration** for **Hillery Drive Improvements**, as referenced in the Contract Appendix. You must comply with all requirements of the **Mitigated Negative Declaration** as set forth in the Contract Appendix A.

Compliance with the City’s environmental document is included in the various Bid items, unless a bid item has been provided.

END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

SUPPLEMENTARY SPECIAL PROVISIONS
APPENDICES

APPENDIX A

MITIGATED NEGATIVE DECLARATION AND MITIGATION, MONITORING, AND REPORTING PROGRAM

HILLERY DRIVE
PROJECT NO. 222562
MITIGATED NEGATIVE DECLARATION and MMRP
CERTIFIED and ADOPTED ON APRIL 30, 2013

WHEREAS, on October 20, 2010 City of San Diego Public Works Department - Engineering and Capital Projects Department, submitted an application to Development Services Department for review of the Hillery Drive Project (PROJECT); and

WHEREAS, the matter was considered without a public hearing by Development Services Staff designated by the City Manager of the City of San Diego; and

WHEREAS, the issue was heard by the Development Services Staff designated by the City Manager on April 30, 2013; and

WHEREAS, on April 30, 2013, Development Services Staff certified a Mitigated Negative Declaration No. 222562, a copy of which is on file in the Development Services Department in accordance with the California Environmental Quality Act of 1970 (CEQA) (Public Resources Code Section 21000 et seq.), as amended, and the State CEQA Guidelines thereto (California Code of Regulations, Title 14, Chapter 3, Section 15000 et seq.); and

WHEREAS, the Development Services Staff considered the issues discussed in Mitigation Negative Declaration No. 222562 (Declaration) prepared for this Project; NOW THEREFORE,

BE IT RESOLVED, by the Development Services Staff that it is certified that the Declaration has been completed in compliance with the California Environmental Quality Act of 1970 (CEQA) (Public Resources Code Section 21000 et seq.), as amended, and the State CEQA Guidelines thereto (California Code of Regulations, Title 14, Chapter 3, Section 15000 et seq.), that the Declaration reflects the independent judgment of the City of San Diego as Lead Agency and that the information contained in said Declaration, together with any comments received during the public review process, has been reviewed and considered by the Development Services Staff in connection with the approval of the Project.

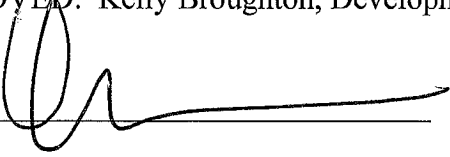
BE IT FURTHER RESOLVED, that the Development Services Staff finds on the basis of the entire record that project revisions now mitigate potentially significant effects on the environment previously identified in the Initial Study, that there is no substantial evidence that the Project will have a significant effect on the environment, and therefore, that said Declaration is hereby adopted.

BE IT FURTHER RESOLVED, that pursuant to CEQA Section 21081.6, the Development Services Staff designated by the City Manager hereby adopts the Mitigation Monitoring and Reporting Program, or alterations to implement the changes to the Project as required by this Development Services Staff in order to mitigate or avoid significant effects on the environment, which is attached hereto as Exhibit A.

BE IT FURTHER RESOLVED, that the Declaration and other documents constituting the record of proceedings upon which the approval is based are available to the public at the office of the DEVELOPMENT SERVICES DEPARTMENT, 1222 FIRST AVENUE, SAN DIEGO, CA 92101 or CITY CLERK, 202 C STREET, SAN DIEGO, CA 92101.

BE IT FURTHER RESOLVED, that DEVELOPMENT SERVICES STAFF is directed to file a Notice of Determination with the Clerk of the Board of Supervisors for the County of San Diego regarding the Project.

APPROVED: Kelly Broughton, Development Services Department Director

By: 

Date: April 30, 2013

ATTACHMENT: Exhibit A, Mitigation Monitoring and Reporting Program

**ATTACHMENT A
MITIGATION, MONITORING, AND REPORTING PROGRAM
HILLERY DRIVE
PROJECT NO. 222562**

This Mitigation Monitoring and Reporting Program is designed to ensure compliance with Public Resources Code Section 21081.6 during implementation of mitigation measures. This program identifies at a minimum: the department responsible for the monitoring, what is to be monitored, how the monitoring shall be accomplished, the monitoring and reporting schedule, and completion requirements. The City of San Diego, Public Works Department - Engineering and Capital Projects Department, Architectural Engineering and Parks Division and the Development Services Department are jointly responsible for ensuring that this program is carried out.

GENERAL REQUIREMENTS

1. Prior to issuance of a Notice to Proceed (NTP), the Assistant Deputy Director (ADD) Environmental Designee of the Advanced Planning and Engineering Division shall verify that Mitigation Measures for noise have been included in entirety on the submitted construction documents and contract specifications, and included under the heading, "Environmental Mitigation Requirements." In addition, the requirements for a Preconstruction Meeting shall be noted on all construction documents.
2. Prior to the commencement of work, a Preconstruction Meeting (Pre-con) shall be conducted and include the City of San Diego's Mitigation Monitoring Coordination (MMC) Section, Resident Engineer, Building Inspector, Project Consultant, Applicant and other parties of interest.
3. Evidence of compliance with other permitting authorities is required, if applicable. Evidence shall include either copies of permits issued, letters of resolution issued by the Responsible Agency documenting compliance, or other evidence documenting compliance and deemed acceptable by the ADD Environmental Designee.

NOISE

The applicant shall mitigate exterior noise impacts for the proposed project as follows:

- I. Prior to Permit Issuance – Plan Check
 - A. Prior to issuance of the bldg permit, the applicant shall incorporate the requirements for environmental noise mitigation on the appropriate construction documents as referenced in the (*Hillery Drive Road Widening, Project Number 222562*, Helix Environmental Planning, June 18, 2012) report.
 - B. Prior to issuance of the building permit for the retaining wall, the Assistant Deputy Director (ADD) Environmental designee shall verify the following sound attenuation measures have been incorporated into the design of the proposed development to reduce noise levels to below 65 dB Community Noise Equivalent Level (CNEL):
 1. The noise wall is to be located at the top of the retaining wall included in the proposed improvements (see Figure 2).
 2. The minimum wall height is to be 8 feet above grade within the Village Green Mobile Home Park (VGMHP).

3. To assist in the proper siting of the wall during final construction, the minimum height of the wall with respect to sea level is indicated in Table 8, and illustrated in Figure 2.
4. Sound attenuation barriers shall be a single, solid sound wall, with associated heights based on the finished grade of the noise source(s).
5. The sound attenuation barriers shall be constructed of masonry, wood, plastic, fiberglass, steel, or a combination of those materials, with no cracks or gaps through or below the wall.
6. Any seams or cracks shall be filled or caulked.
7. If wood is used, it can be tongue and groove design and shall be at least one-inch thick or have a surface density of at least 3.5 pounds per square foot.
8. Where architectural or aesthetic factors allow, glass or clear plastic may be used on the upper portion, if it is desirable to preserve a view.
9. Sheet metal of 18 gauge (minimum) may be used, if it meets the other criteria and is properly supported and stiffened so that it does not rattle or create noise itself from vibration or wind.
10. Any doors or gates shall be designed with overlapping closures on the bottom and sides and meet the minimum specifications of the wall materials described above.
11. Any gate(s) shall be of 0.75 inch or thicker wood, solid-sheet metal of at least 18-gauge metal, or an exterior-grade solid-core steel door with prefabricated door jambs.

II. Post Construction – Prior to Final Inspection

- A. The Permit Holder shall submit one copy of the final Acoustical Analysis with construction documents to the RE and/or BI, and one copy to MMC.
- B. MMC to verify the sound attenuation barrier has been constructed in accordance with the Construction documents.



Advance Planning &
Engineering Division
(619) 446-5460

MITIGATED NEGATIVE DECLARATION

Project No. 222562
SCH No. N/A

SUBJECT: Hillery Drive Road Widening – CITY COUNCIL APPROVAL for acquisition of approximately 0.20 acre (545' L x 16' W) of private property from the landowner of the adjacent mobile home park in order to widen Hillery Drive from 52 feet to 72 feet curb-to-curb, which would include an additional 12 foot wide vehicle lane and 6-foot wide bicycle lane. A 6-foot sidewalk is also proposed. The project would also include additional improvements such as relocation of the existing storm drain and utility box, modification of the traffic signals, removal of 7 feet of existing wall located between a mobile home park and Home Depot, construction of a new wall along the entire length of the site.

The wall along Hillery Drive would include architectural treatment with anti-graffiti coating to protect against vandalism. The project is located north side of Hillery Drive between Westview Parkway and Black Mountain Road, within the Mira Mesa Community Plan area. Applicant: City of San Diego, Public Works Department, Engineering and Capital Projects, Right-of-Way Design.

- I. PROJECT DESCRIPTION: See attached Initial Study Checklist.
- II. ENVIRONMENTAL SETTING: See attached Initial Study Checklist.
- III. DETERMINATION:

The City of San Diego conducted an Initial Study which determined that the proposed project could have a significant environmental effect in the following areas(s): **NOISE**. Subsequent revisions in the project proposal create the specific mitigation identified in Section V of this Mitigated Negative Declaration. The project as revised now avoids or mitigates the potentially significant environmental effects previously identified, and the preparation of an Environmental Impact Report will not be required.

IV. DOCUMENTATION:

The attached Initial Study documents the reasons to support the above Determination.

V. MITIGATION, MONITORING AND REPORTING PROGRAM:

GENERAL REQUIREMENTS

- 1. Prior to issuance of a Notice to Proceed (NTP), the Assistant Deputy Director (ADD) Environmental Designee of the Advanced Planning and Engineering Division shall verify that Mitigation Measures for noise have been included in entirety on the

submitted construction documents and contract specifications, and included under the heading, "Environmental Mitigation Requirements." In addition, the requirements for a Preconstruction Meeting shall be noted on all construction documents.

2. Prior to the commencement of work, a Preconstruction Meeting (Pre-con) shall be conducted and include the City of San Diego's Mitigation Monitoring Coordination (MMC) Section, Resident Engineer, Building Inspector, Project Consultant, Applicant and other parties of interest.
3. Evidence of compliance with other permitting authorities is required, if applicable. Evidence shall include either copies of permits issued, letters of resolution issued by the Responsible Agency documenting compliance, or other evidence documenting compliance and deemed acceptable by the ADD Environmental Designee.

NOISE

The applicant shall mitigate exterior noise impacts for the proposed project as follows:

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- B. Prior to issuance of the building permit for the retaining wall, the Assistant Deputy Director (ADD) Environmental designee shall verify the following sound attenuation measures have been incorporated into the design of the proposed development to reduce noise levels to below 65 dB Community Noise Equivalent Level (CNEL):
 1. The noise wall is to be located at the top of the retaining wall included in the proposed improvements (see Figure 2).
 2. The minimum wall height is to be 8 feet above grade within the Village Green Mobile Home Park (VGMHP).
 3. To assist in the proper siting of the wall during final construction, the minimum height of the wall with respect to sea level is indicated in Table 8, and illustrated in Figure 2.
 4. Sound attenuation barriers shall be a single, solid sound wall, with associated heights based on the finished grade of the noise source(s).
 5. The sound attenuation barriers shall be constructed of masonry, wood, plastic, fiberglass, steel, or a combination of those materials, with no cracks or gaps through or below the wall.
 6. Any seams or cracks shall be filled or caulked.
 7. If wood is used, it can be tongue and groove design and shall be at least one-inch thick or have a surface density of at least 3.5 pounds per square foot.
 8. Where architectural or aesthetic factors allow, glass or clear plastic may be used on the upper portion, if it is desirable to preserve a view.
 9. Sheet metal of 18 gauge (minimum) may be used, if it meets the other criteria and is properly supported and stiffened so that it does not rattle or create noise itself from vibration or wind.

10. Any doors or gates shall be designed with overlapping closures on the bottom and sides and meet the minimum specifications of the wall materials described above.
11. Any gate(s) shall be of 0.75 inch or thicker wood, solid-sheet metal of at least 18-gauge metal, or an exterior-grade solid-core steel door with prefabricated door jambs.

II. Post Construction – Prior to Final Inspection

- A. The Permit Holder shall submit one copy of the final Acoustical Analysis with construction documents to the RE and/or BI, and one copy to MMC.
- B. MMC to verify the sound attenuation barrier has been constructed in accordance with the Construction documents.

The above mitigation monitoring and reporting program will require additional fees and/or deposits to be collected prior to the issuance of building permits, certificates of occupancy and/or final maps to ensure the successful completion of the monitoring program.

VI. PUBLIC REVIEW DISTRIBUTION:

Draft copies or notice of this Mitigated Negative Declaration were distributed to:

Library Department - Government Documents (81)
 Mira Mesa Branch Library (81P)
 Mira Mesa Community Planning Group (310)
 Helene Deisher, Project Manager, Development Services Department (MS 501)
 Ismael Elhamad, Associate Traffic Engineer, Development Services Department (MS 501)
 Ann French-Gonsalves, Senior Traffic Engineer, Development Services Department (MS 501)
 Brian Olson, Assistant Engineer, Engineering and Capital Projects Department (MS 908A)
 Mehdi Rastakhiz, Water Review (86A)
 Catherine Rom (MS 908A)
 Jeff Szymanski, Environmental Senior Planner, Development Services Department (MS 501)
 Shannon Thomas, City Attorney (MS 93C)
 Tom Tomlinson, Facility Financing (MS 93B)
 Lorie Zapf, Councilmember, Council District 6 (MS10A)

VII. RESULTS OF PUBLIC REVIEW:

- (x) No comments were received during the public input period.
- () Comments were received but did not address the draft Mitigated Negative Declaration finding or the accuracy/completeness of the Initial Study. No response is necessary. The letters are attached.
- () Comments addressing the findings of the draft Mitigated Negative Declaration and/or accuracy or completeness of the Initial Study were received during the public input period. The letters and responses follow.

Copies of the draft Mitigated Negative Declaration, the Mitigation, Monitoring and Reporting Program and any Initial Study material are available in the office of the Entitlements Division for review, or for purchase at the cost of reproduction.



JEFF SZYMANSKI, SENIOR PLANNER
Development Services Department

March 6, 2013
Date of Draft Report

March 27, 2013
Date of Final Report

Analyst: Phil Lizzi

Attachments:

Figure 1 - Location/Vicinity Map
Figure 2- Overview of Improvements
Initial Study Checklist

Initial Study Checklist

1. Project title/Project number: Hillery Drive Improvements/222562
2. Lead agency name and address: City of San Diego, 1222 First Avenue, San Diego, CA 92101
3. Contact person and phone number: Philip Lizzi City of San Diego 1222 First Avenue, San Diego, CA 92101, 619-446-5159
4. Project location: North side of Hillery Drive between Westview Parkway and Black Mountain Road.
5. Project applicant/sponsor's name and address: City of San Diego, Engineering and Capital Projects Department Right of Way Division, Point of Contact - Bryan Olson 600 B Street, San Diego, CA 92101
6. General plan designation: Mira Mesa Community Plan Area
7. Zoning: RM-1-1 zone, the Airport Influence Area (MCAS Miramar – Review Area 2), the Miramar Overflight Notification Area, The FAA Part 77 Notification Area, The mobile Home Park Overlay Zone, The Residential Tandem Parking Overlay Zone.
8. Description of project: (Describe the whole action involved, including but not limited to, later phases of the project, and any secondary, support, or off-site features necessary for its implementation.)

The project would include removing concrete asphalt paving and landscape improvements along Hillery Drive and would replace it with new paving, overlay, concrete sidewalk and a retaining wall. The retaining wall would be a minimum of approximately 8.3 feet in height at the east end and 11.2 feet in height at the west end. The wall would be a total of 535 feet in length. The project would also include relocating the existing curb inlet along Hillery Drive and installing a new cleanout at the junction. In addition the project would remove portions of existing pavement along Rikert Road and install Portland Cement Concrete (PCC) chicanes (chicanes are traffic calming devices which create a curvature of the roadway). The project would modify the signal at intersections and existing striping, install a new raise, lighted crosswalk along Hillery Drive, reconstruct existing sidewalk, driveway and hardscape at the adjacent parcel and install new streetlights.

Details of the project are as follows: An exclusive westbound right-turn lane would be constructed at the intersection of Black Mountain Road and Hillery Drive due to project area heavy right turn traffic volume of 397 Vehicles Per Hour (VPH). An additional eastbound left turn lane would be installed at the intersection of Hillery Drive and Westview Parkway due to project heavy left-turn traffic volume of 419 VPH. An exclusive eastbound right-turn lane would be installed at the intersection of Hillery drive and Black Mountain Road due to existing heavy right turn traffic volume of 228 VPH-300 VPH and a narrow shared thru and right turn lane. Addition of this new turn lane would require acquisition of up to 16 feet of new right of way from the Village Green Mobile Home Park (VGMHP), totaling approximately .20 acres (545 feet long by 16 feet wide). Hillery Drive would be widened to 72 feet from 52 feet, curb to curb from Westview Parkway to Black Mountain Road, which would include an additional 12-foot wide vehicle land and 6-foot wide bicycle lane. A 6-foot sidewalk and retaining wall would also be constructed along the VGMHP frontage. With the proposed roadway widening, the nearest lane to the first row of residences within the VGMHP would move approximately 16 feet closer than under the current condition. An additional westbound left-turn lane would be installed at the intersection of Hillery Drive and Black Mountain Road due to projected heavy left turn traffic volume of 375 VPH. The project would also include the installation of two sets of chicanes on Rickert Road (six total); a raised crosswalk at the intersection of Hillery Drive/Rickert Road (at the existing

school crosswalk); installation of electrical pull-boxes (if required); and approximately 200 feet of new trenching for electrical conduit at a maximum depth of 18 inches.

9. Surrounding land uses and setting: Briefly describe the project's surroundings:

This linear project is surrounded by a mix of commercial and active recreation uses:

AR-1-2 (Active Recreation)

CC-1-3 (Commercial - Community) Auto Orientation

CO-1-2 (Commercial - Offices) mix of office and residential uses

Limits of work don't contain environmentally sensitive lands & is not w/in the Coastal Zone.

10. Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.)

The project does not require discretionary approvals from the Development Services Department. The widening of Hillery drive from a two lane collector to a four lane collector to accommodate the California Transportation Department (CALTRANS) Hillery Drive Dedicated Access Ramp (DAR) indentified in the Environmental Impact Report (EIR) State Clearing House No. 2007051137.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- | | | |
|--|--|--|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Greenhouse Gas Emissions | <input type="checkbox"/> Population/Housing |
| <input type="checkbox"/> Agricultural and Forestry Resources | <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Public Services |
| <input type="checkbox"/> Air Quality | <input type="checkbox"/> Hydrology/Water Quality | <input type="checkbox"/> Recreation |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Land Use/Planning | <input type="checkbox"/> Transportation/Traffic |
| <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Utilities/Service Systems |
| <input type="checkbox"/> Geology/Soils | <input checked="" type="checkbox"/> Noise | <input checked="" type="checkbox"/> Mandatory Findings of Significance |

DETERMINATION: (To be completed by Lead Agency)

On the basis of this initial evaluation:

- The proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- Although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

- The proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- The proposed project MAY have a “potentially significant impact” or “potentially significant unless mitigated” impact on the environment, but at least one effect (a) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (b) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required.
- Although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or (MITIGATED) NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or (MITIGATED) NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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D) AESTHETICS – Would the project:

- a) Have a substantial adverse effect on a scenic vista?

No designated public view corridor or scenic vistas are identified in the Mira Mesa Community Plan, the General Plan, or the Local Coastal Program.

- b) Substantially damage scenic resources, including but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Hillery Drive is not designated a state scenic highway. The project is designed in accordance with the Mobility Element of the General Plan, the street landscape designs and materials are selected to enhance or screen views as appropriate, based on their aesthetic qualities, compatibility with the surrounding area, low water demand, and maintenance requirements.

- c) Substantially degrade the existing visual character or quality of the site and its surroundings?

While the proposed retaining wall would exceed the allowed height regulations, the wall would not result in a substantial view blockage from a public viewing area. Views from private property are not protected by CEQA or the City of San Diego. The Retaining wall and noise attenuation wall would include architectural treatment with anti-graffiti coating to protect against vandalism and to reduce the visual scale of the walls. Street trees, shrubs and groundcover, where replaced would be installed in accordance with the City of San Diego guidelines.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The installation of a new raised, lighted crosswalk along Hillery Drive and new street lights would improve pedestrian visibility and security. Street lights shall be provided in accordance with the approved Council Policy 200-18, Street Lighting, and current Land Development Manual, designed to avoid excessive glare.

II) AGRICULTURAL AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. – Would the project:

a) Converts Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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The project is designated as Urban and Built Up land on the 2008 FMMP Map.

b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Project proposes no conflict with the AR-1-2 Zone.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- c) Result in the loss of forest land or conversion of forest land to non-forest use?

The project is in an area of predominantly commercial and residential use, and is not within or surrounded by forest land.

- d) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?

The project location is not currently being used for agricultural uses.

III. AIR QUALITY – Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied on to make the following determinations - Would the project:

- a) Conflict with or obstruct implementation of the applicable air quality plan?

The Mira Mesa Scripps Ranch DAR Final EIR assessed air quality and the project is consistent with the applicable air quality plans. Once constructed, this project would not create any additional impacts to air quality.

- b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Standard dust abatement Best Management Practices (BMP's) and emissions controls during grading operations would be implemented to reduce potential impacts and to ensure compliance with SDAPCD rules and regulations. Hillery Drive Alternative would not cause or contribute to a violation of State or federal air quality standards for carbon emissions. No exceedances of the CO are anticipated and therefore would not cause or contribute to a violation of air quality standards.

- c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?

Standards have been established for six criteria pollutants that have been linked to potential health concern; the criteria pollutants are: carbon monoxide (CO), nitrogen dioxide (NO2), ozone (O3),

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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particulate matter, lead (Pb), and sulfur dioxide (SO₂). The Mira Mesa Scripps Ranch DAR EIR assessed air quality and temporary impacts for the project build are consistent with applicable air quality plans.

- d) Expose sensitive receptors to substantial pollutant concentrations?

An Air Quality Impact Assessment for the Mira Mesa Scripps Ranch Direct Access Ramp (October 1, 2008) was prepared to evaluate the potential for air emissions associated with long-term of the Hillery Drive Alternative. This involved an evaluation of the potential for CO “hot spots” to result due to the traffic congestion in proximity to sensitive receptors located in the vicinity of the affect intersection or roadway segment. There are no sensitive receptors were identified and impacts would not occur.

- e) Create objectionable odors affecting a substantial number of people?

Operation of construction equipment and vehicles could generate odors associated with fuel combustion. However, these odors would dissipate into the atmosphere upon release and would only remain temporarily in proximity to the construction equipment and vehicles. Therefore, the project would not create substantial amounts of objectionable odors affecting a substantial number of people.

IV. BIOLOGICAL RESOURCES – Would the project:

- a) Have substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

The site does not support significant biological resources, as it has been legally graded for construction of the public right of way. It is not included in the City of San Diego’s Multi Habitat Planning Area (MHPA), and does not support jurisdictional wetlands or Tier I, II or III habitat.

- b) Have a substantial adverse effect on any riparian habitat or other community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

See IV.a. No identified Biological communities exist within or adjacent to the project footprint therefore no impacts would result.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

See IV.A. No protected wetlands fall within or adjacent to the project footprint.

- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No established wildlife corridors or nurseries have previously been identified within or adjacent to the project footprint.

- e) Conflict with any local policies or ordinances protecting biological resources, such as tree preservation policy or ordinance?

See IV.a. No impacts would occur.

- f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

The project site is not within or adjacent to the MHPA.

V. CULTURAL RESOURCES – Would the project:

- a) Cause a substantial adverse change in the significance of an historical resource as defined in §15064.5?

The project site is not located within the City's high sensitivity mapped area for potential cultural resources, and no historical resources as defined by CEQA State Guidelines, Section 15064.5 are identified within the project's APE. Therefore, the project is not expected to result in any substantial adverse changes or impacts to cultural and/or historical resources. Furthermore, the project site has been heavily impacted by road and housing construction and impacts to historical resources would not occur.

- b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

There are no recorded sites within the project APE which contain historic or archaeological resources.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

The project alignment is underlain by the Linda vista Formation (QVOP7) with a moderate sensitivity rating in the Mira Mesa Community Planning Area. The grading threshold for monitoring, when unweathered formation are not present at the surface, and grading is not on or near a fossil recovery site, is 2,000 cubic yards at a depth of 10 feet or greater. The project would not exceed either threshold.

- d) Disturb and human remains, including those interred outside of formal cemeteries?

Given the project site's location outside of the mapped sensitivity area and within a developed urbanized area, no human remains are anticipated during construction activities.

VI. GEOLOGY AND SOILS – Would the project:

- a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:
- i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

The project areas is within Geologic Hazard zones 51 (Other terrain-level mesas underlain by terrace deposits and bedrock, nominal risk) and 52 (Other terrain-other level areas, gently sloping to steep terrain, favorable geologic structure, low risk). No faults exist in the project area. In addition the project would utilize proper engineering design and standard construction practices in order to ensure that impacts would not expose people or structures to substantial adverse effects.

- ii) Strong seismic ground shaking?
 See VI.a.1 The project falls outside the fault rupture zone.

- iii) Seismic-related ground failure, including liquefaction?
The project site has no potential for soil strength loss (Liquefaction) due to seismic event.

- iv) Landslides?
 See VI.a.i. There are no known landslides in the area.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- b) Result in substantial soil erosion or the loss of topsoil?

The project would not require a substantial amount of excavation nor would the on-site topographical conditions be substantially altered. Therefore, the project would not result in a substantial loss of topsoil.

- c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

See VI.a.i.

- d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?

See VI.a.i.

- e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

The project does not propose the construction of septic tanks.

VII. GREENHOUSE GAS EMISSIONS –

Would the project:

- a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Greenhouse Gas Emissions (GHG) associated with the project, are attributable to emissions from operations and construction. These emissions include materials processing, emissions produced from onsite construction equipment, and emissions related to traffic delays due to construction. These emissions would be produced at different levels throughout the construction phase; their frequency and occurrence would be reduced through implementation of a transportation management plan and idling restrictions. The most common GHG is CO2 which constitutes approximately 84 percent of all GHG emissions in California. Vehicular GHG emissions result from CO2, CH4 and NO2 that is released during the combustion of gas or diesel fuel in vehicles. The project would not result in an increase in vehicular emissions within the air basin, as overall on-road vehicle trips would occur regardless of whether the project is constructed. A construction emission model worksheet was conducted for this project which determined that the project would generate approximately 198 tons. This would be substantially less than the 900 metric ton screening criteria that would trigger a GHG analysis and/or subsequent mitigation.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

Please see VII.a. The project as proposed would not conflict with any applicable plan, policy or regulation adopted for the purpose of reducing greenhouse gas emission.

VIII. HAZARDS AND HAZARDOUS

MATERIALS – Would the project:

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Create a significant hazard to the public or the environment through routine transport, use, or disposal of hazardous materials? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

Construction of the project may require the use of hazardous materials (fuels, lubricants, solvents, etc.), which would require proper storage, handling, use, and disposal; however, the project would not routinely transport, use or dispose of hazardous materials. Therefore, the project would not create a significant hazard to the public or environment.

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

There are no leaking underground storage tanks within 1,000 feet of the project. There are no superfund or burn sites or landfills within 2,000 feet of the project. The project does not occur in any hazardous areas identified by the Environmental Services Department.

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

Walker Elementary school is within a quarter mile of the project. See VIII.a. No impacts would occur.

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

See VIII.a. No impacts would occur.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?

The project is not located within an airport land use plan or within 2 miles of a public airport.

- f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

Project is not within the vicinity of a private airport.

- g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Construction of the project would temporarily affect traffic circulation within the project APE and its adjoining roads. However, an approved transportation control plan would be implemented during construction which would allow emergency plans to be employed.

- h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

The project is located in the developed public right of way and land surrounding the project does not contain wildlands that would pose a threat of wildland fires. Additionally the project would not introduce any new features that would increase the risk of fire.

IX. HYDROLOGY AND WATER QUALITY -

Would the project:

- a) Violate any water quality standards or waste discharge requirements?

Project disturbance is approximately .61 acres (16,482 square feet+10,000 square feet of staging area), of which .28 acre is attributed to new impervious surface area. Since the project is under an acre, this project is not subject to the General Construction Permit. A Water Pollution Control Plan (WPCP) must be prepared for this project in order to be compliant with the Municipal Storm Water Permit.

Conformance with Best Management Practices (BMPs), such as the placement of silt fencing around water quality sensitive areas near the outlet of the storm drain, outlined in the required WPCP and the project's conformance with the City's Storm Water Regulations would prevent or effectively minimize short-term water quality impacts. Therefore, the project should not violate any existing water quality standards or discharge requirements.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?

The project would not result in the creation of ponded water, related water quality treatment devices (i.e detention basins), or private sewage disposal system.

- c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner, which would result in substantial erosion or siltation on- or off-site?

The project would not require substantial amount of excavation nor would the on-site topographical conditions be substantially altered. Adherence to the City’s Stormwater Standards is the Water Quality Threshold.

- d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or off-site?

Compliance with the Water Quality Standards is assured through permit conditions provided by LDR Engineering. Adherence to the City’s Stormwater Standards is considered to preclude water quality impacts.

- e) Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

See IX.c.

- f) Otherwise substantially degrade water quality?

See IX.c.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project does not propose new housing and is not within a 100-year flood hazard area.

- h) Place within a 100-year flood hazard area, structures that would impede or redirect flood flows?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

See IX.g.

- i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

No levees or dams exist near the site.

- j) Inundation by seiche, tsunami, or mudflow?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project would not include any new features that would increase the risk associated with seiche, tsunami, or mudflow beyond those of the existing conditions.

X. LAND USE AND PLANNING – Would the project:

- a) Physically divide an established community?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project would widen an existing road and is within the existing right of way, therefore the project would not divide the community.

- b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

Hillery Road has a functional classification of a two-lane collector but the Mira Mesa Community Plan designates the road as a four-lane collector. As discussed in the Mira Mesa-Scripps Ranch DAR Project Final EIR (March 2009), the Hillery Drive widening would provide improved access to the project area's major activity centers, reduce traffic congestion at freeway on-ramps and roadway segments in the project area, and improved local and regional access to transit facilities and the I-15 Managed Lanes facility. Therefore the project would be consistent with all applicable land use plans, policies, or regulations of an agency with jurisdiction over the project, and would not result in any conflict with any land use plans.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| c) Conflict with any applicable habitat conservation plan or natural community conservation plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project is not within any applicable habitat conservation plan or natural community conservation plan.

XI. MINERAL RESOURCES – Would the project?

- | | | | | |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|

No known mineral resources are within the project APE.

- | | | | | |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|

No mineral resource recovery site is within the project’s APE.

XII. NOISE – Would the project result in:

- | | | | | |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|
| a) Exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|---|--------------------------|-------------------------------------|--------------------------|--------------------------|

Project construction would generate noise temporarily. Per the City’s Municipal Code, construction noise levels measures at or beyond the property lines of any property zoned residential shall not exceed an average sound level greater than 75-decibels (dB) during the 12 –hour period from 7:00 a.m. to 7:00 p.m.

Widening Hillery Drive would move the nearest lane to the first row of residences within the Village Green Mobile Home Park (VGMHP) approximately 16 feet closer than under the current conditions. The Helix Environmental Planning Noise Analysis (dated June 18, 2012) concluded the roadway improvements would adversely impact the residential units within the VGMHP which are nearest to the roadway. The nearest residences within the VGMHP would experience exterior noise levels in excess of 65 dB Community Noise Equivalent Level (CNEL) with existing traffic. Currently, traffic noise at these residences doesn’t exceed 65 CNEL. Exterior noise levels in excess of 65 CNEL are considered significant under the City’s significance thresholds. Construction of the retaining wall, as described in the Helix Report, with a minimum height of 8 feet, would fully mitigate this impact by reducing traffic noise to a level below 65 CNEL behind the wall in both the existing and year 2030 conditions.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- b) Exposure of persons to, or generation of, excessive ground borne vibration or ground borne noise levels?

All temporary construction noise would be in conformance with the City's adopted noise ordinance standards. No permanent ground borne vibration or noise levels are proposed. As identified in the Helix report the proposed retaining wall's height must be a minimum of 8 feet in height in order to fully mitigate noise impacts to residences. Therefore, mitigation measures identified in Section V. of the MND would ensure that noise impacts from the road widening project would not occur.

- c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?

Helix Environmental Planning conducted a noise analysis to determine the potential for the planned roadway improvements along Hillery Drive to have significant noise impacts at the Village Green Mobile Home Park (VGMHP). The approved acoustical report (dated June 18, 2012) assessed the noise impacts of the proposed roadway widening that would move the nearest lane to the first row of residences within the VGMHP approximately 16 feet closer than under the current condition. The noise levels at the nearest residences do not presently exceed 65 CNEL.

However, by moving the nearest travel lane 16 feet closer to those residences, the first row of residences would be exposed to exterior noise levels in excess of 65 dBA CNEL under existing traffic conditions. Consequently, the proposed project would result in a significant noise impact with respect to existing conditions.

The proposed project would have a significant impact on the adjacent VGMHP by causing exterior traffic noise levels to exceed 65 CNEL under existing traffic conditions. However, construction of the retaining wall, as described in the Helix Report, with a minimum height of 8 feet, would fully mitigate this impact by reducing traffic noise to a level below 65 CNEL behind the wall in both the existing and year 2030 conditions.

- d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above existing without the project?

Construction noise levels measured at or beyond the property lines of any property zoned residential shall not exceed an average sound level greater than 75' decibels (db) during the 12-hour period from 7:00 am to 7:00 p.m.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- e) For a project located within an airport land use plan, or, where such a plan has not been adopted, within two miles of a public airport or public use airport would the project expose people residing or working in the area to excessive noise levels?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project is not located within an adopted airport land use plan or within a proposed plan.

- f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project is not within 2 miles of a private airstrip.

XIII. POPULATION AND HOUSING – Would the project:

- a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project area has experienced population growth and associated traffic that has increased demand and capacity on the surrounding roadway and freeway system. Hillery Road has a functional classification of a two-lane collector but the Mira Mesa Community Plan designates the road as a four-lane collector. As discussed in the Mira Mesa-Scripps Ranch DAR Project Final EIR (March 2009), the Hillery Drive widening would provide improved access to the project area’s major activity centers, reduce traffic congestion at freeway on-ramps and roadway segments in the project area, and improved local and regional access to transit facilities and the I-15 Managed Lanes facility.

- b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project would not displace or replace housing.

- c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?
- | | | | |
|--------------------------|--------------------------|--------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--------------------------|--------------------------|--------------------------|-------------------------------------|

The project would not displace people or include any new housing.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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XIV. PUBLIC SERVICES

a) Would the project result in substantial adverse physical impacts associated with the provisions of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service rations, response times or other performance objectives for any of the public services:

i) Fire Protection

The project is to enhance public improvements within the existing right of way, and does not include housing construction that would induce population growth and increase demand on associated government facilities or public services.

ii) Police Protection
See XIV a.i

iii) Schools
See XIV a.i

v) Parks
See XIV a.i

vi) Other public facilities
See XIV a.i

XV. RECREATION -

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

See XIV a.i

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?

The project would not include construction or expansion of recreational facilities.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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XVI. TRANSPORTATION/TRAFFIC – Would the project?

- a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

The proposed project is compatible with the Mira Mesa Community Plan which states that Hillery Drive shall be constructed as a four lane collector with associated 6' bike lanes on each side.

- b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

Project construction would temporarily affect traffic circulation within the projects APE and its adjoining roads. An approved Traffic Control Plan would be implemented to reduce the impact to less than significant. The widening of Hillery Drive from a two lane collector to a four lane collector to accommodate the CALTRANS Hillery Drive DAR EIR would not mitigate the future impact of the traffic increase due to the proposed Hillery DAR. The Hillery DAR would add approximately 14,000 ADT to the horizon year 2030 without the project.

- c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

Project construction would temporarily affect traffic circulation within the projects APE and its adjoining roads. An approved Traffic Control Plan would be implemented to reduce the impact to less than significant.

- d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The project would remove portions of existing pavement along Rickert Road and install new PCC chicanes. This public improvement is compatible with the City's general plan to increase public safety and iar quality by reducing vehicular speed.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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e) Result in inadequate emergency access?

Project construction would temporarily affect traffic circulation within the projects APE and its adjoining roads. An approved Traffic Control Plan would be implemented to reduce the impact to less than significant.

f) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

The project would install a new sidewalk and bicycle lane and therefore would improve pedestrian facilities and impacts would not occur.

XVII. UTILITIES AND SERVICE SYSTEMS –

Would the project:

a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?

Hillery Road widening and public improvements to Rickert Road would not affect wastewater treatment requirements.

b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

No new water or wastewater facilities would be constructed or expanded with this project.

c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?

This is not a priority project as described on the Storm Water standards checklist. This project's disturbance would total .61 acres (16,482 square feet + 10,000 square foot staging area), of which .28 acres is attributed to new impervious surface area. Since this project is under an acre, this project is not subject to the General Construction Permit. A Water Pollution Control Plan (WPCP) must be prepared for this project in order to be compliant with the Municipal Storm Water Permit.

d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?

The project is a noise wall and would not increase the demand for water supplies.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

The project is noise wall and would not increase demand for wastewater treatment.

- f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?

Waste generated during construction of residential and commercial facilities would comply with Municipal Code section 66.0601-66.0610. The public improvement of the existing right of way is not subject to the City's waste management regulations and would minimal waste generated by ongoing use.

- g) Comply with federal, state, and local statutes and regulation related to solid waste?

See XVII.f.

XVIII. MANDATORY FINDINGS OF SIGNIFICANCE -

- a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

The project is located in a developed urbanized neighborhood within an existing right of way and would not degrade the quality of the surrounding environment. Implementation of the MMRP would reduce potential noise impacts to below a level of significance. No biological resources are present on site and therefore, impacts to such resources would not result from the project.

Issue	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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- b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable futures projects)?
-

The widening of Hillery Drive from a two lane collect to a four lane collector to accommodate the CALTRANS Hellery Drive DAR EIR does not mitigate the future impact of the traffic increase due to the proposed Hillery DAR. The Hillery DAR would add approximately 14,000 ADT to the horizon year 2030 with no build.

- c) Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?
-

The Helix Environmental Planning Noise Analysis (dated June 18, 2012) concluded the roadway improvements would adversely impact the residential units within the VGMHP which are nearest to the roadway. The nearest residences within the VGMHP would experience exterior noise levels in excess of 65 CNEL with existing traffic. Exterior noise levels in excess of 65 CNEL are considered significant under the City’ significance thresholds. Impacts in the long-term would not be significant as traffic noise levels are these residences would be above 65 CNEL with or without the proposed widening. Associated mitigation to construct the retaining wall consistent with the Helix Noise Report within the VGMHP and the new turn land would bring exterior traffic noise levels behind the wall and within the VGMHP below 65 CNEL under existing and future traffic conditions.

INITIAL STUDY CHECKLIST

REFERENCES

I. Aesthetics / Neighborhood Character

- City of San Diego General Plan.
- Community Plan.
- Local Coastal Plan.

II. Agricultural Resources & Forest Resources

- City of San Diego General Plan.
- U.S. Department of Agriculture, Soil Survey - San Diego Area, California, Part I and II, 1973.
- California Agricultural Land Evaluation and Site Assessment Model (1997)
- Site Specific Report:

III. Air Quality

- California Clean Air Act Guidelines (Indirect Source Control Programs) 1990.
- Regional Air Quality Strategies (RAQS) - APCD.
- Site Specific Report:

IV. Biology

- City of San Diego, Multiple Species Conservation Program (MSCP), Subarea Plan, 1997
- City of San Diego, MSCP, "Vegetation Communities with Sensitive Species and Vernal Pools" Maps, 1996.
- City of San Diego, MSCP, "Multiple Habitat Planning Area" maps, 1997.
- Community Plan - Resource Element.
- California Department of Fish and Game, California Natural Diversity Database, "State and Federally-listed Endangered, Threatened, and Rare Plants of California," January 2001.
- California Department of Fish & Game, California Natural Diversity Database, "State and Federally-listed Endangered and Threatened Animals of California," January 2001.
- City of San Diego Land Development Code Biology Guidelines.
- Site Specific Report:

V. Cultural Resources (includes Historical Resources)

- City of San Diego Historical Resources Guidelines.
- City of San Diego Archaeology Library.
- Historical Resources Board List.

- Community Historical Survey:
- Site Specific Report:
- VI. Geology/Soils**
- City of San Diego Seismic Safety Study.
- U.S. Department of Agriculture Soil Survey - San Diego Area, California, Part I and II, December 1973 and Part III, 1975.
- Site Specific Report:
- VII. Greenhouse Gas Emissions**
- Site Specific Report: CAPCOA, 'CEQA and Climate Change,' January 2008.
- VIII. Hazards and Hazardous Materials**
- San Diego County Hazardous Materials Environmental Assessment Listing,
- San Diego County Hazardous Materials Management Division
- FAA Determination
- State Assessment and Mitigation, Unauthorized Release Listing, Public Use Authorized.
- Airport Land Use Compatibility Plan.
- Site Specific Report:
- IX. Hydrology/Water Quality**
- Flood Insurance Rate Map (FIRM).
- Federal Emergency Management Agency (FEMA), National Flood Insurance Program - Flood Boundary and Floodway Map.
- Clean Water Act Section 303(b) list, dated November 12, 2010, (http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/TMDLs/303dlist.shtml).
- X. Land Use and Planning**
- City of San Diego General Plan.
- Community Plan.
- Airport Land Use Compatibility Plan
- City of San Diego Zoning Maps

FAA Determination

XI. Mineral Resources

California Department of Conservation - Division of Mines and Geology, Mineral Land Classification.

Division of Mines and Geology, Special Report 153 - Significant Resources Maps.

Site Specific Report:

XII. Noise

Community Plan

Site Specific Report:

San Diego International Airport - Lindbergh Field CNEL Maps.

Brown Field Airport Master Plan CNEL Maps.

Montgomery Field CNEL Maps.

San Diego Association of Governments - San Diego Regional Average Weekday Traffic Volumes.

San Diego Metropolitan Area Average Weekday Traffic Volume Maps, SANDAG.

City of San Diego General Plan.

Site Specific Report: Hillery Drive Road Widening, Helix Environmental Planning, June 18, 2012.

XIII. Paleontological Resources

City of San Diego Paleontological Guidelines.

Deméré, Thomas A., and Stephen L. Walsh, "Paleontological Resources City of San Diego," Department of Paleontology San Diego Natural History Museum, 1996.

Kennedy, Michael P., and Gary L. Peterson, "Geology of the San Diego Metropolitan Area, California. Del Mar, La Jolla, Point Loma, La Mesa, Poway, and SW 1/4 Escondido 7 1/2 Minute Quadrangles," California Division of Mines and Geology Bulletin 200, Sacramento, 1975.

Kennedy, Michael P., and Siang S. Tan, "Geology of National City, Imperial Beach and Otay Mesa Quadrangles, Southern San Diego Metropolitan Area, California," Map Sheet 29, 1977.

Site Specific Report:

XIV. Population / Housing

- City of San Diego General Plan.
- Community Plan.
- Series 11 Population Forecasts, SANDAG.
- Other:

XV. Public Services

- City of San Diego General Plan.
- Community Plan.

XVI. Recreational Resources

- City of San Diego General Plan.
- Community Plan.
- Department of Park and Recreation
- City of San Diego - San Diego Regional Bicycling Map
- Additional Resources:

XVII. Transportation / Circulation

- City of San Diego General Plan.
- Community Plan.
- San Diego Metropolitan Area Average Weekday Traffic Volume Maps, SANDAG.
- San Diego Region Weekday Traffic Volumes, SANDAG.
- Site Specific Report: The California Transportation Department Hillery Drive Dedicated Access Ramp Environmental Impact Report State Clearing House No. 2007051137

XVIII. Utilities

- City of San Diego General Plan.

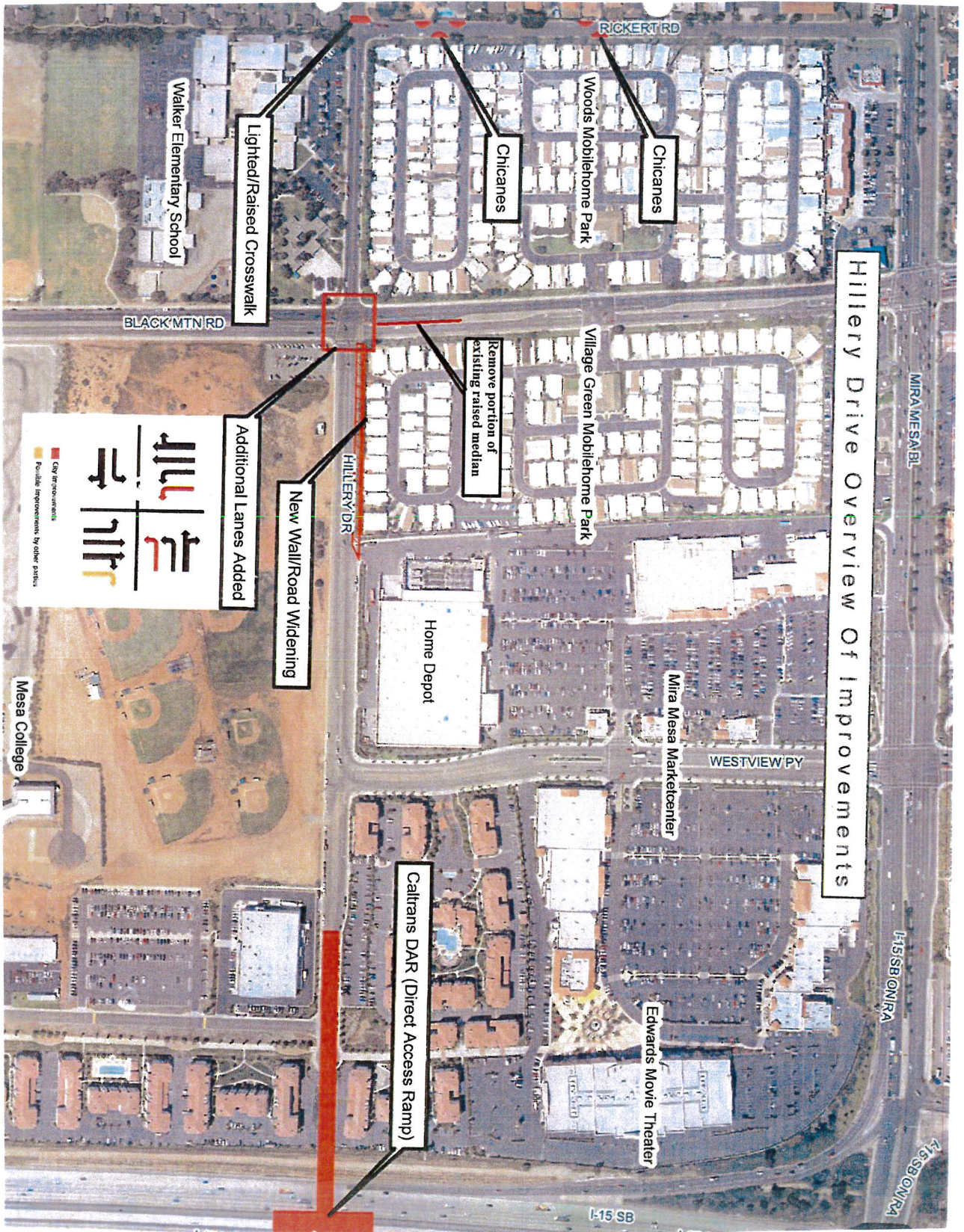
XIX. Water Conservation

- Sunset Magazine, New Western Garden Book. Rev. ed. Menlo Park, CA: Sunset Magazine.



Location Map
Hillery Drive Road Widening Project
 City of San Diego – Engineering and Capital Projects Department

FIGURE
1



Hillery Drive

Overview of Improvements

Environmental Analysis Section Project No. 222562

CITY OF SAN DIEGO · DEVELOPMENT SERVICES

Figure

2

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APPENDIX B

FIRE HYDRANT METER PROGRAM

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 1 OF 10	EFFECTIVE DATE October 15, 2002
	SUPERSEDES DI 55.27	DATED April 21, 2000

1. **PURPOSE**

- 1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

- 2.1 All authorities and references shall be current versions and revisions.
- 2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15
- 2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986
- 2.4 California Code of Regulations, Titles 17 and 22
- 2.5 California State Penal Code, Section 498B.0
- 2.6 State of California Water Code, Section 110, 500-6, and 520-23
- 2.7 Water Department Director

Reference

- 2.8 State of California Guidance Manual for Cross Connection Programs
- 2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention
- 2.10 American Water Works Association Standards for Water Meters
- 2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

- 3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

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	SUPERSEDES DI 55.27	DATED April 21, 2000

- 3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.
- 3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

- 4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.
- 4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.
- 4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:
 - a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.
 - b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:
 - 1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

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2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.
3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).
4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).
5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).
6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.
7. All private fire hydrant meters shall have backflow devices attached when installed.
8. The customer must maintain and repair their own private meters and private backflows.
9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.
10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.

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11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any re-installation.
 12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
 13. The outlet shall have a 2 ½ “National Standards Tested (NST) fire hydrant male coupling.
 14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).
- 4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.
- 4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.
- 4.6 Conditions and Processes for Issuance of a Fire Hydrant Meter**
- Process for Issuance
- a. Fire hydrant meters shall only be used for the following purposes:
 1. Temporary irrigation purposes not to exceed one year.

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2. Construction and maintenance related activities (see Tab 2).
 - b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.
 - c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.
 - d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.
 - e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.
 - f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.
 - g. After the fees have been paid and an account has been created, the

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meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

4.7 Relocation of Existing Fire Hydrant Meters

- a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as “Hotline”), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter’s relocation.
- b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.
- c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

4.8 Disconnection of Fire Hydrant Meter

- a. After ten (10) months a “Notice of Discontinuation of Service” (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.
- b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

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for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

- 5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- 6.1 Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:

- a) **Vehicle Mounted Meters:** Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

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inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

b) **Floating Meters:** Floating Meters are meters that are not mounted to a vehicle. **(Note: All floating meters shall have an approved backflow assembly attached.)** The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:

- 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
- 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

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7. **FEE AND DEPOSIT SCHEDULES**

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. These deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. **UNAUTHORIZED USE OF WATER FROM A HYDRANT**

8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.

8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.

8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.

8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

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- 8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

**Larry Gardner
Water Department Director**

- Tabs: 1. Fire Hydrant Meter Application
2. Construction & Maintenance Related Activities With No Return To Sewer
3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index: Construction Meters
Fire Hydrant
Fire Hydrant Meter Program
Meters, Floating or Vehicle Mounted
Mobile Meter
Program, Fire Hydrant Meter

Distribution: DI Manual Holders



Application for Fire Hydrant Meter (EXHIBIT A)

(For Office Use Only)

NS REQ	FAC#
DATE	BY

METER SHOP (619) 527-7449

Meter Information

Application Date	Requested Install Date:
------------------	-------------------------

Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. Map Location or Construction drawing.) <u>Zip:</u>	<u>T.B.</u>	<u>G.B. (CITY USE)</u>
Specific Use of Water:		
Any Return to Sewer or Storm Drain, If so, explain:		
Estimated Duration of Meter Use: <input type="text"/>	<input type="checkbox"/>	Check Box if Reclaimed Water

Company Information

Company Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ()
*Business license#		*Contractor license#	
A Copy of the Contractor's license OR Business License is required at the time of meter issuance.			
Name and Title of Billing Agent: <small>(PERSON IN ACCOUNTS PAYABLE)</small>			Phone: ()
Site Contact Name and Title:			Phone: ()
Responsible Party Name:			Title:
Cal ID#			Phone: ()
Signature:		Date:	
Guarantees Payment of all Charges Resulting from the use of this Meter. Insures that employees of this Organization understand the proper use of Fire Hydrant Meter			

Fire Hydrant Meter Removal Request	Requested Removal Date:
Provide Current Meter Location if Different from Above:	
Signature:	Title: Date:
Phone: ()	Pager: ()

<input type="checkbox"/> City Meter	<input type="checkbox"/> Private Meter
Contract Acct #:	Deposit Amount: \$ 936.00 Fees Amount: \$ 62.00
Meter Serial #	Meter Size: 05 Meter Make and Style: 6-7
Backflow #	Backflow Size: Make and Style:
Name:	Signature: Date:

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing
Backfilling
Combination Cleaners (Vactors)
Compaction
Concrete Cutters
Construction Trailers
Cross Connection Testing
Dust Control
Flushing Water Mains
Hydro Blasting
Hydro Seeing
Irrigation (for establishing irrigation only; not continuing irrigation)
Mixing Concrete
Mobile Car Washing
Special Events
Street Sweeping
Water Tanks
Water Trucks
Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date

Name of Responsible Party
Company Name and Address
Account Number: _____

Subject: Discontinuation of Fire Hydrant Meter Service

Dear Water Department Customer:

The authorization for use of Fire Hydrant Meter # _____, located at *(Meter Location Address)* ends in 60 days and will be removed on or after *(Date Authorization Expires)*. Extension requests for an additional 90 days must be submitted in writing for consideration 30 days prior to the discontinuation date. If you require an extension, please contact the Water Department, or mail your request for an extension to:

City of San Diego
Water Department
Attention: Meter Services
2797 Caminito Chollas
San Diego, CA 92105-5097

Should you have any questions regarding this matter, please call the Fire Hydrant Hotline at (619) _____ - _____.

Sincerely,

Water Department

APPENDIX C

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

Materials Typically Accepted by Certificate of Compliance

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

APPENDIX D

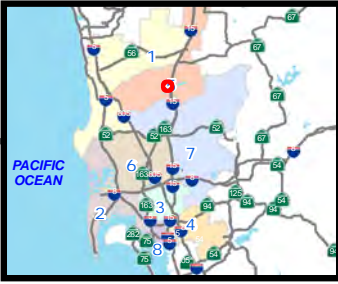
SAMPLE CITY INVOICE

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123						Contractor's Name:					
Project Name:						Contractor's Address:					
Work Order No or Job Order No.											
City Purchase Order No.						Contractor's Phone #:			Invoice No.		
Resident Engineer (RE):						Contractor's Fax #:			Invoice Date:		
RE Phone#:			RE Fax#:			Contact Name:			Billing Period:		
Item #	Item Description	Contract Authorization				Previous Estimate		This Estimate		Totals to Date	
		Unit	Qty	Price	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1	2 Parallel 4" PVC C900	LF	1,380	\$34.00	\$46,920.00						
2	48" Primary Steel Casing	LF	500	\$1,000.00	\$500,000.00						
3	2 Parallel 12" Secondary Steel	LF	1,120	\$53.00	\$59,360.00						
4	Construction and Rehab of PS 49	LS	1	\$150,000.00	\$150,000.00						
5	Demo	LS	1	\$14,000.00	\$14,000.00						
6	Install 6' High Chain Link Fence	LS	1	\$5,600.00	\$5,600.00						
7	General Site Restoration	LS	1	\$3,700.00	\$3,700.00						
8	10" Gravity Sewer	LF	10	\$292.00	\$2,920.00						
9	4" Blow Off Valves	EA	2	\$9,800.00	\$19,600.00						
10	Bonds	LS	1	\$16,000.00	\$16,000.00						
11	Field Orders	AL	1	80,000	\$80,000.00						
11.1	Field Order 1	LS	5,500	\$1.00	\$5,500.00						
11.2	Field Order 2	LS	7,500	\$1.00	\$7,500.00						
11.3	Field Order 3	LS	10,000	\$1.00	\$10,000.00						
11.4	Field Order 4	LS	6,500	\$1.00	\$6,500.00						
12	Certified Payroll	LS	1	\$1,400.00	\$1,400.00						
CHANGE ORDERS											
Change Order 1			4,890								
Items 1-4					\$11,250.00						
Item 5-Deduct Bid Item 3		LF	120	-\$53.00	(\$6,360.00)						
Change Order 2			160,480								
Items 1-3					\$95,000.00						
Item 4 Deduct Bid Item 1		LF	380	-\$340.00	(\$12,920.00)						
Item 5-Encrease bid Item 9		LF	8	\$9,800.00	\$78,400.00						
Change Order 3 (Close Out)			-121,500								
Item 1 Deduct Bid Item 3			53	-500.00	(\$26,500.00)						
Item 2 Deduct Bid Item 4		LS	-1	45,000.00	(\$45,000.00)						
Items 3-9			1	-50,500.00	(\$50,500.00)						
SUMMARY								Total This	\$ -	Total Billed	\$0.00
A. Original Contract Amount						Retention and/or Escrow Payment Schedule					
B. Approved Change Order 1 Thru 3						Total Retention Required as of this billing					
C. Total Authorized Amount (A+B)						Previous Retention Withheld in PO or in Escrow					
D. Total Billed to Date						Add'l Amt to Withhold in PO/Transfer in Escrow:					
E. Less Total Retention (5% of D)						Amt to Release to Contractor from PO/Escrow:					
F. Less Total Previous Payments											
G. Payment Due Less Retention						Contractor Signature and Date:					
H. Remaining Authorized Amount											


APPENDIX E


LOCATION MAP

HILLERY DRIVE IMPROVEMENTS



Legend

 New Wall / Road Widening/ New Sidewalk

 Lighted and Raised Crosswalk

 Chicanes



No Scale

S:\PITS\PITS-CIP-Preliminary-Engineering-and-Program-Coordination\Drafting\TEO Transportation\Hillery Drive Improvements\CIP Tracking\Location Map

Community Name: Mira Mesa

Council District: 5

SAP ID#

Date: 1-26-2011
Hillery Drive Improvements



Appendix E - Location Map - Volume 1 of 2 (Rev. Nov. 2013)

THIS MAP/DATA IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Note: This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SanGIS. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.

APPENDIX F

HYDROSTATIC DISCHARGE FORM

APPENDIX

Hydrostatic Discharge Requirements Certification (Discharge Events < 500,000 gpd)

All discharge activities related to this project comply with the Regional Water Quality Control Board (RWQCB) Order No. 2002-0020, General Permit for Discharges of Hydrostatic Test Water and Potable Water to Surface Water and Storm Drains as referenced by (http://www.swrcb.ca.gov/rwqcb9/board_decisions/adopted_orders/2002/2002_0020.shtml), and as follows:

Discharged water has been dechlorinated to below 0.1 (mg/l) level; and effluent has been maintained between 6 and 9 (PH) based on:							<i>is discharge within acceptable limits?</i>		<i>Comment</i>
Event #	Discharge Date & Amount (GAL)	Discharge Time	Meter Readings (at source)	Test Results (Chlorine / PH)	Name of Personnel Conducting Tests (print)	*signature of personnel	yes	no	
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						
	Date	Start:	Start:						
	Amt:	End:	End:						

**By signing, I certify that all of the statements and conditions for hydrostatic discharge events are correct.*

Project Name: _____

Work Order No.(s): _____

Have any thresholds have been exceeded? Per Order No. 2002-0020, would this be a reportable discharge and must be reported **within 24 hours** of the event? [Reportable discharge would include violation of maximum gallons per day, any upset which exceeds any effluent limit]

APPENDIX G

STORMWATER FILTRATION SYSTEM SPECIFICATIONS

STORMWATER FILTRATION SYSTEM

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PART 1 — GENERAL

1.1 Related Requirements

- A. Section 01330 – Submittals: Shop Drawings, Product Data, and Samples
- B. Section 02300 – Earthwork: Excavation, Trenching, Backfill, and Compaction.
- C. Section 02370 – Erosion and Sedimentation Control (Including SWPPP)

1.2 Summary

- A. This section includes a radial cartridge stormwater media filters.

1.3 Reference Standards

- A. American Association of State Highway and Transportation Officials (AASHTO)
 - a. AASHTO M105 – Gray Iron Castings

- B. American Society for Testing and Materials (ASTM)
 - a. ASTM A48, CL.30B – Gray Iron Castings
 - b. ASTM A82 – Steel Wire, Plain, for Concrete Reinforcement
 - c. ASTM A185 – Steel Welded Wire Reinforcement, Plain for Concrete
 - d. ASTM A496 – Steel Wire, Deformed, for Concrete Reinforcement
 - e. ASTM A497 – Steel Welded Wire Reinforcement, Deformed for Concrete
 - f. ASTM A615 – Deformed & Plain, Carbon-Steel Bars for Concrete Reinforcement
 - g. ASTM B209 – Aluminum & Aluminum Alloy Sheet and Plate
 - h. ASTM C32 – Sewer and Manhole Brick (Made form Clay or Shale)
 - i. ASTM C139 – Concrete Masonry Units for Construction of Catch Basins and Manholes
 - j. ASTM C150 – Portland Cement
 - k. ASTM C478 – Precast Reinforced Concrete Manhole Sections
 - l. ASTM C595 – Blended Hydraulic Cement
 - m. ASTM C857 – Minimum Structural Design Loading for Underground Precast Concrete Utility Structures

- n. ASTM C858 – Underground Precast Concrete Utility Structures
- o. ASTM C891 – Installation of Underground Precast Utility Structures
- p. ASTM C990 – Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants
- q. ASTM C1107 – Packaged Dry, Hydraulic Cement Grout (Non-Shrink)
- r. ASTM D698 – Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort

1.4 Definitions

- A. BMP: Best Management Practices
- B. TSS: Total Suspended Solids

1.5 Submittals

The following shall be submitted by the Contractor:

- A. Product Data for the following:
 - a. Radial Cartridge Stormwater Media Filter
 - 1. Product specifications to include but not limited to specification sheets, brochures, and performance claims.
 - 2. Installation procedures.
 - 3. Shop Drawings shall be provided to include details for fabrication, construction, reinforcement, joints, assembly, and any accessory items. Shop drawings shall be annotated to indicate all materials to be used and applicable material standards, required tests of materials, and all design assumptions for structural analysis.
 - 4. Operation & Maintenance Manual.
- B. Independent third party certification or test report demonstrating conformance to applicable local or regional BMP standards before the treatment system is installed for the following:
 - 1. Removal Efficiency
 - 2. Targeted Pollutants of Concern
 - 3. Hydraulic Capacity
 - 4. Certification of adherence to applicable standard
- C. Products submitted as approved equal must be submitted at least two weeks prior to project bid opening and must be approved by the project Engineer. Submittal for approved equal product must contain a signed letter from an

executive officer of the manufacturer stating product is equivalent to all applicable requirements of this specification.

1.6 Delivery, Storage, and Handling

- A. All filtration system components shall be delivered to the site and unloaded with handling that conforms to the manufacturer's instructions for reasonable care. Concrete and internal components shall not be rolled or dragged over gravel or rock during handling. The Contractor shall take necessary precautions to ensure the method used in lifting or placing the filtration system does not induce stress fatigue in the concrete.

PART 2 — PRODUCTS

2.1 Radial Cartridge Stormwater Media Filter

2.1.1 Description

The Contractor, and/or a manufacturer selected by the Contractor and approved by the Engineer, shall furnish all labor, materials, equipment and incidentals required and install all precast concrete stormwater filtration systems and appurtenances in accordance with the Drawings and these specifications. The stormwater filtration system shall consist of an underground precast concrete structure that houses rechargeable, passive, orifice controlled, radial-flow media-filled filter cartridges which trap particulates (TSS) and adsorb pollutants such as dissolved metals, nutrients, and hydrocarbons.

The Stormwater Filtration System shall be sized at a hydraulic loading rate of no more than 2.5gpm/sf of media surface area and provide a settlement area of no less than four square feet per cartridge. The water quality treatment flow rate shall be as determined and approved by the Engineer.

The Stormwater Filtration System shall contain a pre-treatment bay and be self-draining to increase the effective life of the filter media. The media cartridges shall be elevated to reduce the accumulation of material on the cartridge surface. Each radial-flow filter cartridge shall operate at a pre-determined flow rate through the use of an integrated flow control mechanism located within each filter cartridge. The cartridges and the media filter system shall utilize no moving parts.

The filtration system must include the capability to partition flows, causing all runoff to be diverted into the filtration chamber during low-flow conditions. This can be accomplished with either internal or external diversion. Flows exceeding the treatment capacity of the unit shall be diverted around the filtration chamber to prevent re-suspension and washout of previously trapped pollutants.

The Contractor shall furnish and install the Stormwater Filtration System complete and operable as shown and as specified herein in accordance with the requirements of the plans and contract documents.

2.1.2 Materials and Design

A. Concrete for precast stormwater filtration systems shall conform to ASTM C478, C857 and C858 and meet the following additional requirements:

1. In all cases the wall thickness shall be no less than the minimum thickness necessary to sustain HS20-44 (MS18) loading requirements as determined by a Licensed Professional Engineer.
2. Sections shall have tongue and groove or ship-lap joints with a butyl mastic sealant conforming to ASTM C 990.
3. Cement shall be Type I, II, or III Portland cement conforming to ASTM C 150.
4. All sections shall be cured by an approved method. Sections shall not be shipped until the concrete has attained a compressive strength of 4,000 psi (28 MPa) or other designate suitable handling strength.
5. Pipe openings shall be sized to accept pipes of the specified size(s) and material(s), and shall be sealed by the Contractor with hydraulic cement conforming to ASTM C 595M or ASTM C1107.
6. Aggregates shall conform to ASTM C33, except that the requirement for gradation shall not apply.
7. Reinforcement shall consist of wire conforming to ASTM A82 or A496, of wire mesh conforming to ASTM A185 or A497, or Grade 40 steel bars conforming to ASTM A615.
8. Castings for manhole frames and covers shall be in accordance with ASTM A48, CL.30B and AASHTO M105. The access cover/s shall be designed for HS20-44 traffic loading and shall provide a minimum of 30-inch clear opening.
9. Brick or masonry used to build the manhole frame to grade shall conform to ASTM C32 or ASTM C139 and shall be installed in conformance with all local requirements.
10. Diversion weirs, separation chamber, and oil baffle shall be made from concrete, marine grade fiberglass and/or stainless steel and shall conform to ASTM A240
11. All mounting hardware for internal components shall be made of 304SS and shall conform to ASTM A240

B. All internal components including stainless steel bypass manifold, pre-treatment filter, filter cartridge(s), filter media (as specified on the plans or by the Engineer), and shall be provided by the manufacturer.

1. The bypass manifold shall be fabricated of stainless steel, minimum Type 304, complying with the requirements of ASTM A240.
2. Filter cartridge bottom pan, inner ring, top and hood shall be constructed from high density polyethylene (HDPE). Filter cartridge screen shall consist of 1" X ½" welded wire fabric (16 gauge minimum) with a bonded PVC coating.

An orifice mechanism plate shall be supplied with each cartridge to restrict flow rate to a maximum of 12 gpm (12-inch cartridge), 18 gpm (18-inch cartridge), 24 gpm (24-inch cartridge), 30 gpm (30-inch cartridge) at system design head or as specified on drawings.

3. The filter media shall consist of one or more of the following, as specified on the Plans or by the Engineer:
 - a. Perlite Media: Perlite media shall be made of natural siliceous volcanic rock free of any debris or foreign matter. The perlite media shall have a bulk density ranging from 6.5 to 8.5 lb/ft³ and particle sizes ranging from that passing through a 0.50 inch screen and retained on a U.S. Standard #8 sieve.
 - b. Zeolite Media: Zeolite media shall be made of naturally occurring clinoptilolite, which has a geological structure of potassium-calcium-sodium aluminosilicate. The zeolite media shall have a bulk density ranging from 44 to 48 lb/ft³, particle sizes ranging from that passing through a U.S. Standard #4 sieve to that retained on a U.S. Standard #6 sieve, and a cation exchange capacity ranging from 1.0 to 2.2 meq/g.
 - c. Granular Activated Carbon: Granular activated carbon (GAC) shall be made of lignite coal that has been steam activated. The GAC media shall have a bulk density ranging from 28 to 31 lb/ft³ and particle sizes ranging from that passing through a U.S. Standard #4 sieve to that retained on a U.S. Standard #8 sieve.
 - d. Zeolite-Perlite-Carbon (ZPC): ZPC is a mixed media that shall be composed of a blend of Zeolite (see above), Perlite (see above) and Granular Activated Carbon (see above).
 - e. Zeolite-Perlite (ZP): ZP is a mixed media that shall be composed of a blend of Zeolite (see above) and Perlite (see above).

2.1.3 Performance

A. Each specified flow based Stormwater Filtration system shall be capable of removing 80% of the net annual Total Suspended Solids (TSS) load based on a d50 particle size of 20 microns and 60% of the net annual Total Phosphorous (TP). Annual TSS and TP removal efficiency models shall be based on laboratory and field performance data, site-specific hydraulics and hydrology, and local rainfall intensity distributions. Filtration units shall

have the ability of being placed inline without re-suspending trapped sediments or re-entrain contaminants up to and including the Peak Flow Rate.

B. Each Stormwater Filtration System shall contain one or more media cartridges that maintain a uniform pressure profile across the face of the filter during operation. At the design flow rate the maximum filter hydraulic loading rate is not to exceed 2.5gpm/sf of filter surface area and provide a settlement area of no less than four square feet per cartridge. Stormwater shall enter the filter cartridges through the sides and shall flow through the filter media radially from the outer perimeter inward and shall have an average media contact time of not less than 39 seconds.

C. The Stormwater Filtration System performance shall be third party verified and shall be based on lab and field performance. The Stormwater Filtration System shall have Washington Department of Ecology General Use Level Designation (GULD) for Basic and Phosphorous treatment.

D. The Stormwater Filtration System shall be supplied with either internal or external bypass with a minimum capacity not less than the peak design storm as determined by the Engineer.

2.1.4 Quality Assurance

The materials, process and finished stormwater filtration system shall be subject to inspection by the Engineer. Acceptance or rejection of the system shall be based on the Specifications contained in this section. Imperfections may be repaired but subject to the acceptance of the Engineer.

PART 3 — Methods

3.1 Identification

A. All Stormwater Filtration devices shall be identified at the surface level with markings indicating that they are treatment devices.

3.2 Inspection

3.2.1 General

A. Concrete, internals, and accessories, shall be inspected prior to installation and any defective or damaged product shall be replaced.

3.2.2 Manhole Sections

A. Any manhole section with chipped bells or spigots shall be rejected and replaced.

B. Any section with a fracture or crack greater than 0.10 in. in length or 0.01 in width shall be rejected and replaced.

- C. Any manhole section that has not had at least seven (7) days cure time (including 12 hours steam cure, or 21 days without steam cure) or is out of round shall be rejected and replaced.
- D. Any section with indications of imperfections in mixing and/or molding, honeycombed, or open textured surface, shall be rejected and replaced.
- E. Any section with indications of patches or repairs shall be rejected and replaced.
- F. Any section with exposed reinforcing steel shall be rejected and replaced.

3.3 Structure Installation

3.3.1 General

- A. General Locations and Arrangements: Drawing plans and details indicate general location and arrangement of underground storm and drainage piping systems. Location and arrangement of stormwater filtration systems is critical and design consideration should be taken into account. Install filtration system as indicated herein and as directed by the product manufacturer, to the maximum extent practical. Where specific installation procedure is not indicated, follow product manufacturer's written instructions.
- B. All products shall be inspected for defects and cracks before being lowered into the trench, piece by piece. Any defective, damaged or unsound structure or any product that has had its grade disturbed after laying, shall be taken up and replaced. Open ends shall be protected with a pipe plug to prevent earth or other material from entering the filtration system during construction. The interior of the filtration system shall be free from dirt, excess water and other foreign materials as the installation progresses and left clean at the completion of the installation.

3.3.2 Trench Excavation

3.3.2.1 Excavation

- A. Excavate trenches to ensure that sides will be stable under all working conditions. Slope trench walls or provide supports in conformance with all local and national standards for safety. Open only as much trench as can be safely maintained by available equipment. Backfill all trenches as soon as practicable, but not later than the end of each working day.
- B. Where trench walls are stable or supported, provide a width sufficient, but no greater than necessary, to ensure working room to properly and safely place and compact haunching and other embedment materials. The space between the filtration system and trench wall must be wider than the compaction equipment used in the compaction zone.
- C. When supports such as trench sheeting, trench jacks, trench shields or boxes are used, ensure that support of the filtration system and its embedment is maintained throughout installation. Ensure that sheeting is sufficiently tight to prevent washing out of the trench wall from behind the sheeting. Provide tight support of trench walls below viaducts, existing utilities, or other obstructions that restrict driving of sheeting.

3.3.2.2 Dewatering

- A. Do not lay or embed any section of the Stormwater Filtration system in standing or running water. At all times prevent runoff and surface water from entering the trench.
- B. When water is present in the work area, dewater to maintain stability of in-situ and imported materials. Maintain water level below pipe bedding and foundation to provide a stable trench bottom. Use, as appropriate, sump pumps, well points, deep wells, geofabrics, perforated underdrains, or stone blankets of sufficient thickness to remove and control water in the trench. When excavating while depressing ground water, ensure the ground water is below the bottom of cut at all times to prevent washout from behind sheeting or sloughing of exposed trench walls. Maintain control of water in the trench before, during, and after pipe system installation and until embedment is installed and sufficient backfill has been placed to prevent flotation of the pipe, fitting, or drainage structures. To preclude loss of soil support, employ dewatering methods that minimize removal of fines and the creation of voids in in-situ materials.

3.3.2.3 Removal of Rock

- A. Rock in either ledge or boulder formation shall be replaced with suitable materials to provide a compacted earth cushion having a thickness between exposed rock and the manhole sections of at least 12 inches (0.3m).

3.3.2.4 Removal of Unstable Material

- A. Where wet or otherwise unstable soil incapable of properly supporting the manhole structure, as determined by the Engineer, is encountered in the bottom of a trench, such material shall be removed to at least 24 inches below bottom of the structure and replaced to the proper grade with select granular material, compacted as directed by the engineer. When removal of unstable material is due to the fault or neglect of the Contractor while performing shoring and sheeting, water removal, or other specified requirements, such removal and replacement shall be performed at no additional cost to the Owner.

3.3.3 Bedding

- A. A stable and uniform bedding shall be provided for the manhole structure and any protruding features of its joint and/or fittings. The bedding shall be compacted to a minimum of 90% of maximum density per AASHTO T99, or as shown in the plans. Structure bedding shall be a minimum of 6" in thickness. The bedding surface for the structure shall provide a firm foundation of uniform density throughout the entire length of the pipe.

3.3.4 Setting Structures

- A. Each structure section shall be thoroughly examined before being placed; defective or damaged sections shall not be used. Structures shall be placed to the elevations as indicated on the plans. Proper facilities shall be provided for lowering structure sections into trenches. Sections shall not be laid in water,

and the sections shall not be laid when trench conditions or weather are unsuitable for such work. Diversion of drainage or dewatering of trenches shall be provided as directed by the engineer; see dewatering section.

3.3.5 Jointing

- A. Joints shall be constructed as described herein and in accordance with manufacturer's installation instructions.
- B. All Bell-and-Spigot manhole joints shall be thoroughly cleaned. The supplied gasket shall be installed on the spigot end with the angled surface facing toward the mating surface. Joint lubricant, supplied by the manufacturer, shall be liberally applied to entire interior of bell and gasket on spigot prior to assembly. Sections shall be mated with sections level and plumb to prevent rolling the gasket.
- C. All Tongue-and-Groove joints shall be thoroughly cleaned. Sections shall be mated and Hydraulic Cement Grout (Non-Shrink) complying with ASTM C1107 shall be applied liberally to the exterior and interior of the joint ensuring all voids are filled completely.

3.3.6 Backfilling

3.3.6.1 General

Backfill placement and compaction shall be constructed in accordance with the specifications herein and the product manufacturer's published installation guides.

3.3.6.2 Backfilling Manhole Sections in Trenches

After the manhole sections and connecting pipes have been properly bedded, selected material from excavation or borrow, at a moisture content that will facilitate compaction, shall be placed along all sides of pipe in layer depths to ensure minimum compaction density is obtained evenly throughout the backfill material. The backfill shall be brought up evenly on all sides of the structure. Each layer shall be thoroughly compacted with mechanical tampers or rammers. Tests for density shall be made as necessary to ensure conformance to the compaction requirements specified by the manufacturer. Where it is necessary, in the opinion of the Engineer, that sheeting or portions of bracing used be left in place, the contract will be adjusted accordingly. Untreated sheeting shall not be left in place beneath structures or pavements.

3.3.6.3 Movement of Construction Machinery

Movement of construction machinery over a manhole structure at any stage of construction shall be at the Contractor's risk. Any damaged structure shall be repaired or replaced.

3.3.7 Filter Cartridges

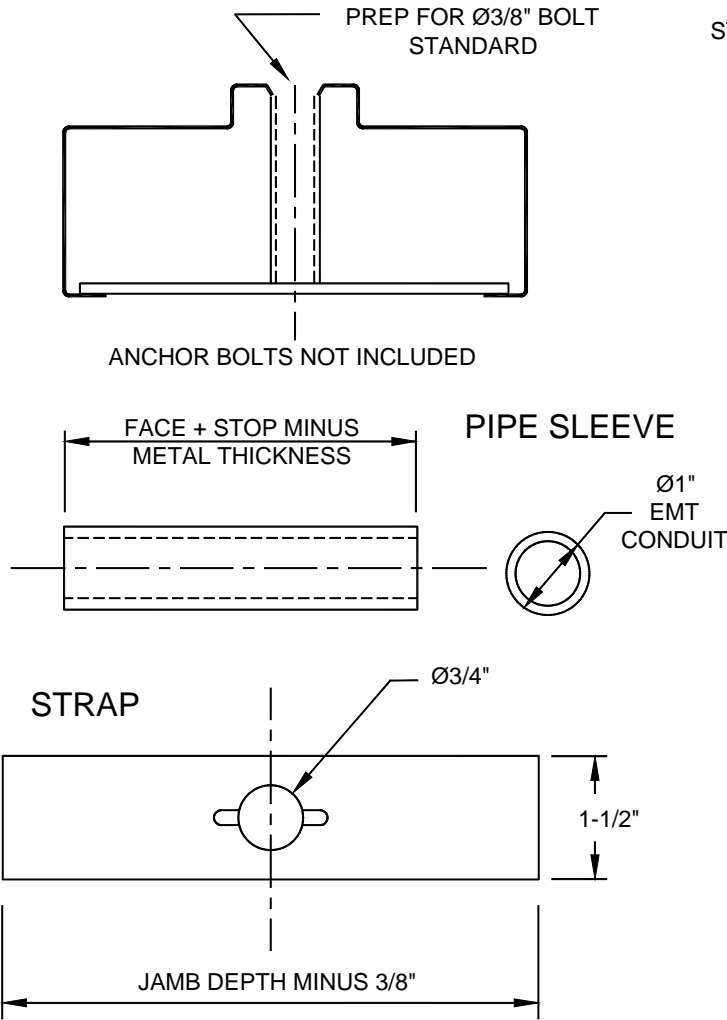
- A. The filter cartridges shall be delivered with filter system pre-installed and fully operational. The Contractor shall take any and all necessary actions to protect the cartridges from sediment, debris and other pollutants during the course of construction. The Contractor may choose to protect the cartridges by removing them or bypassing them. The method and cost to protect the cartridges during construction is at the sole discretion and cost to the Contractor.

APPENDIX H

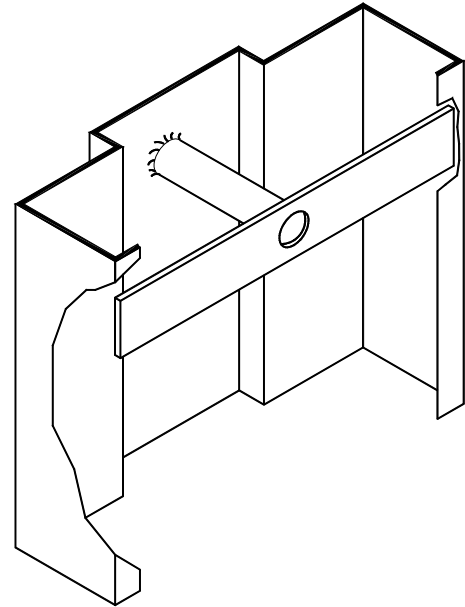
ACCESS DOOR INFORMATION

A7 PUNCH & DIMPLE MASONRY ANCHOR

GAUGE: 16
 TACK WELDED
 WHI AND UL APPROVED

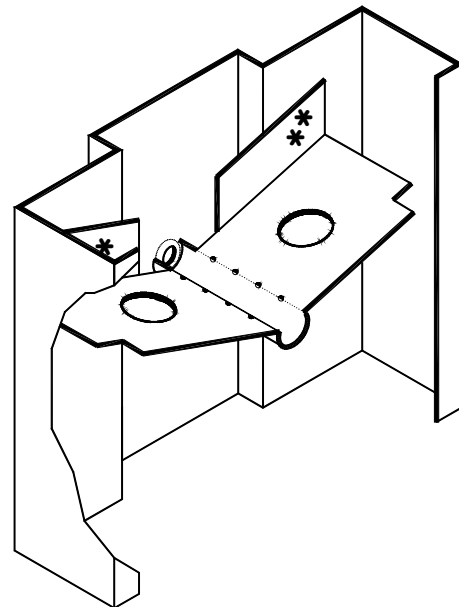


STANDARD FOR JAMBS WITH CUSTOM FACES AND PROFILES

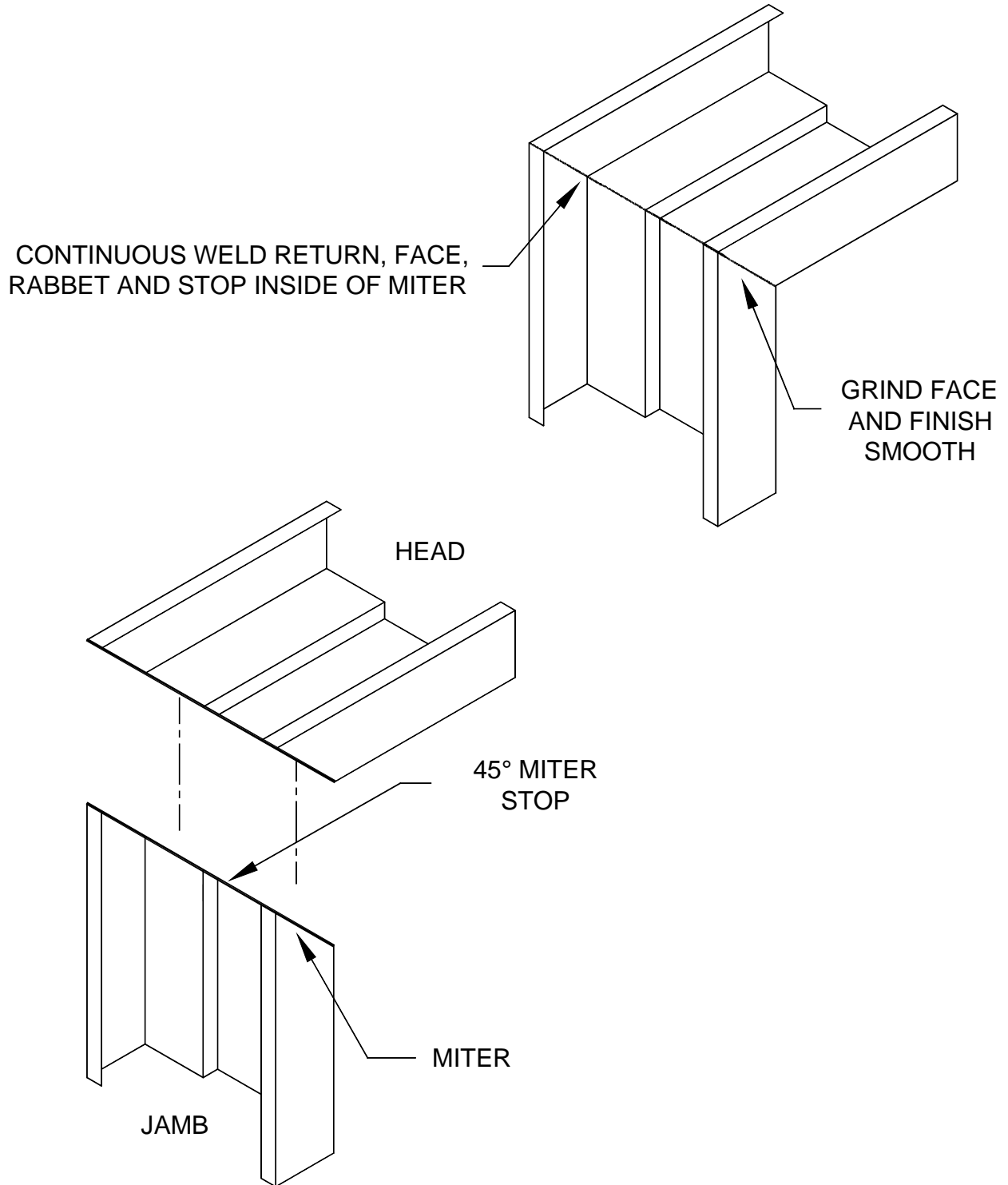


A7B ALTERNATE ANCHOR "BUTTERFLY ANCHOR"

16 GAUGE - 2 SPOTWELDS PER END
 STANDARD FOR JAMBS WITH 2" FACES AND UNDER 10" JAMB DEPTH



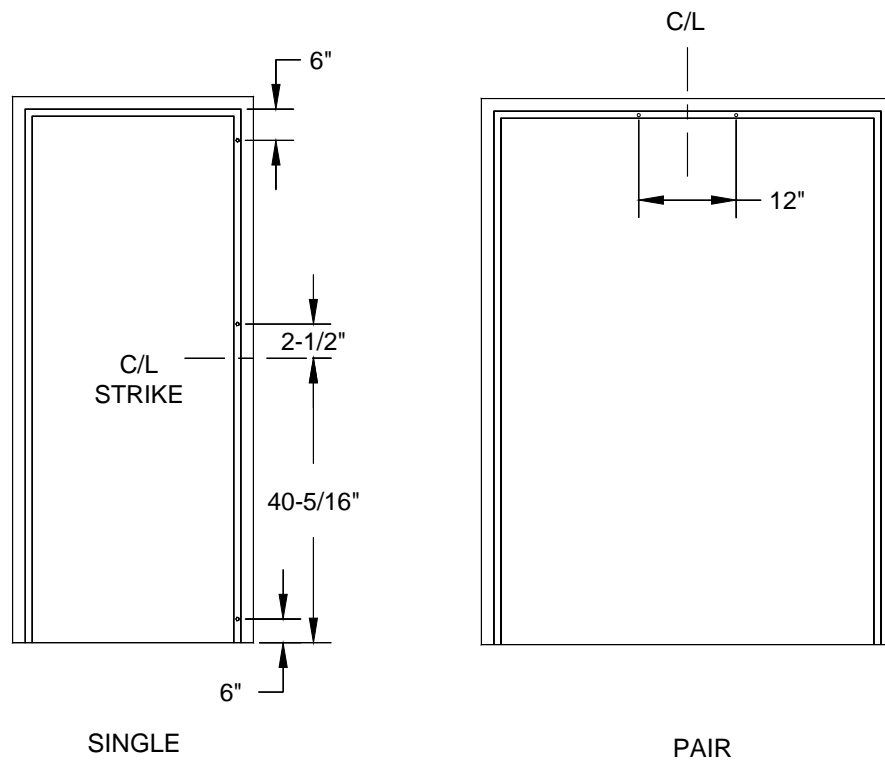
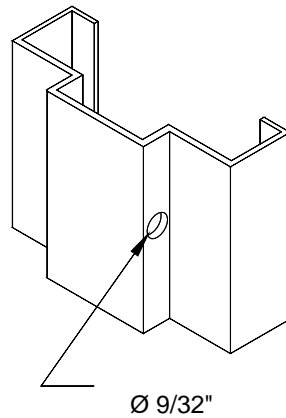
CONTINUOUSLY WELDED CORNER

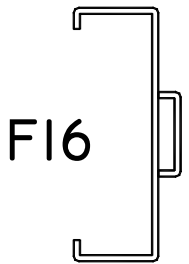
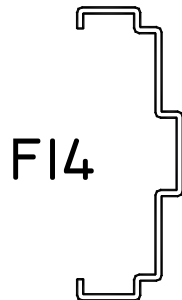
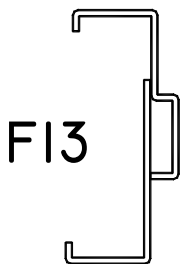
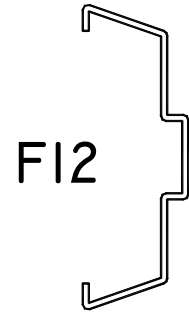
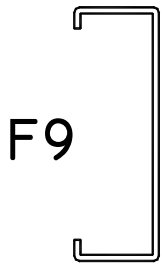
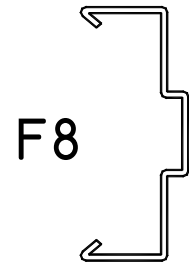
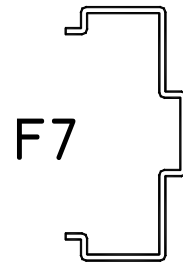
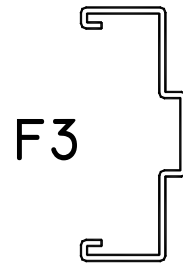
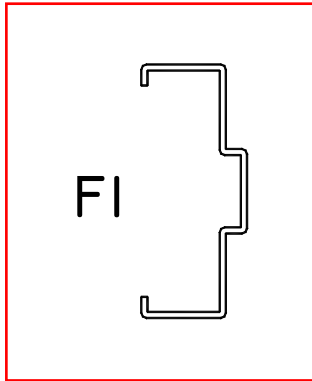


DOOR SILENCER PREPARATION

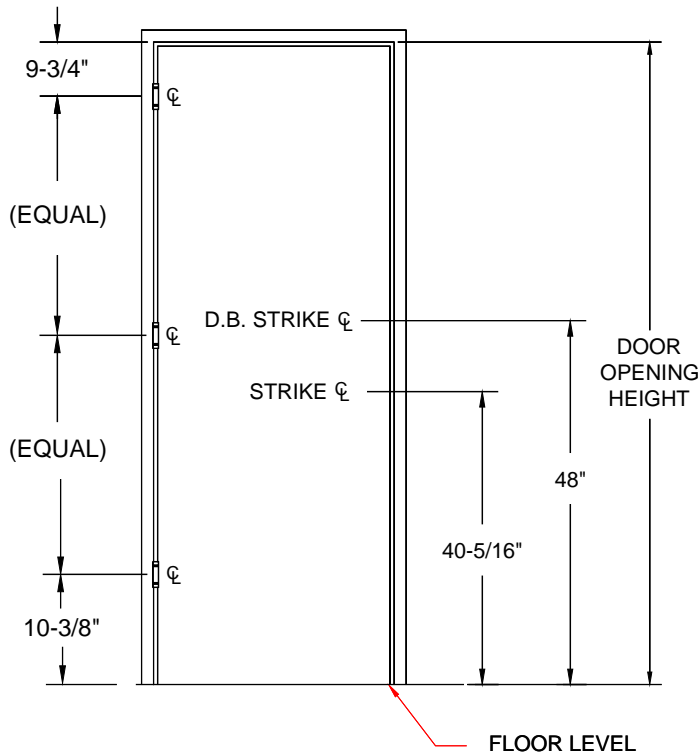
SILENCERS ARE PUNCHED
ONLY UPON REQUEST

3 EA AT SINGLE SWING
2 EA AT PAIR SWING

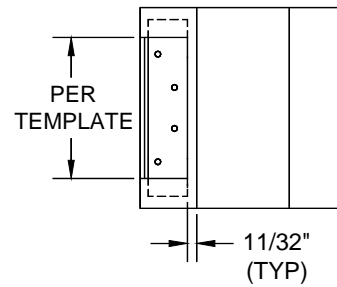
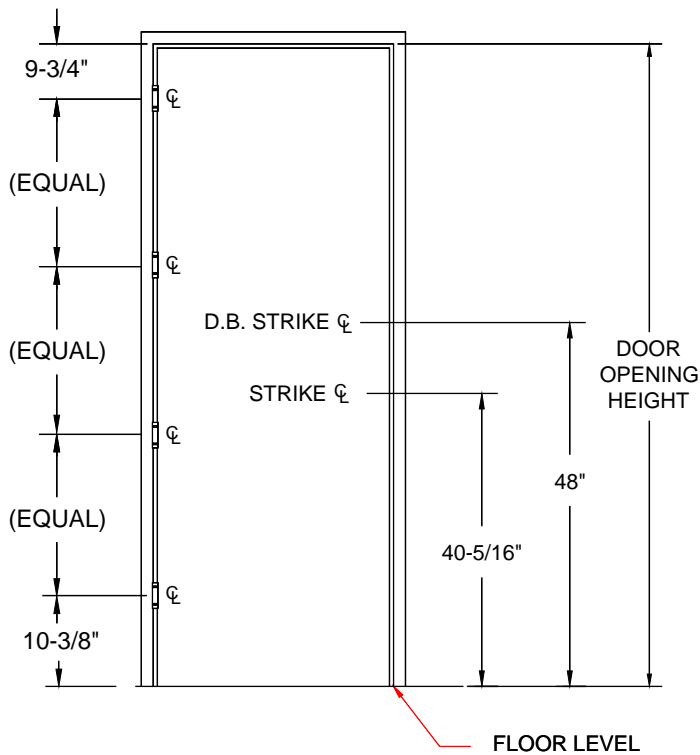
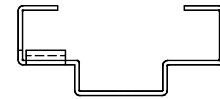




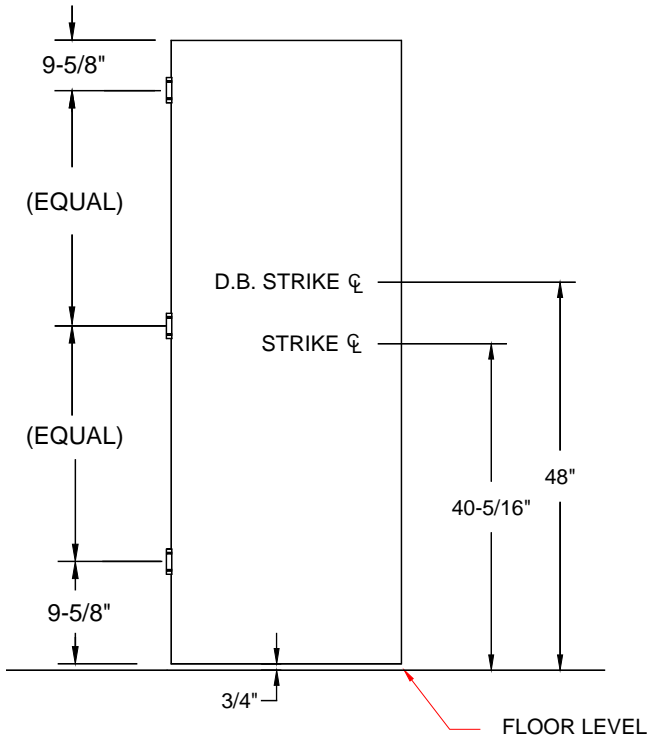
FRAME PROFILES SHOWN MAY HAVE ANY BACKBEND
STYLE OR COMBINATION OF BACKBEND STYLES



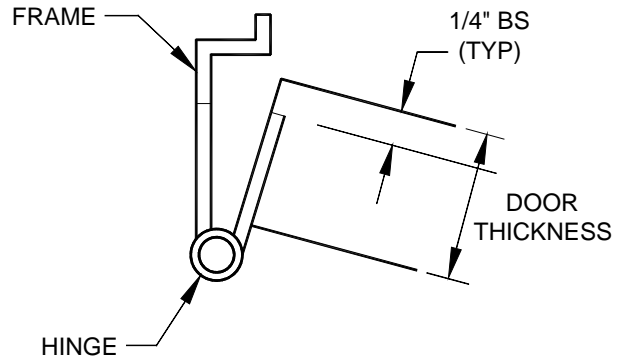
3-HINGES



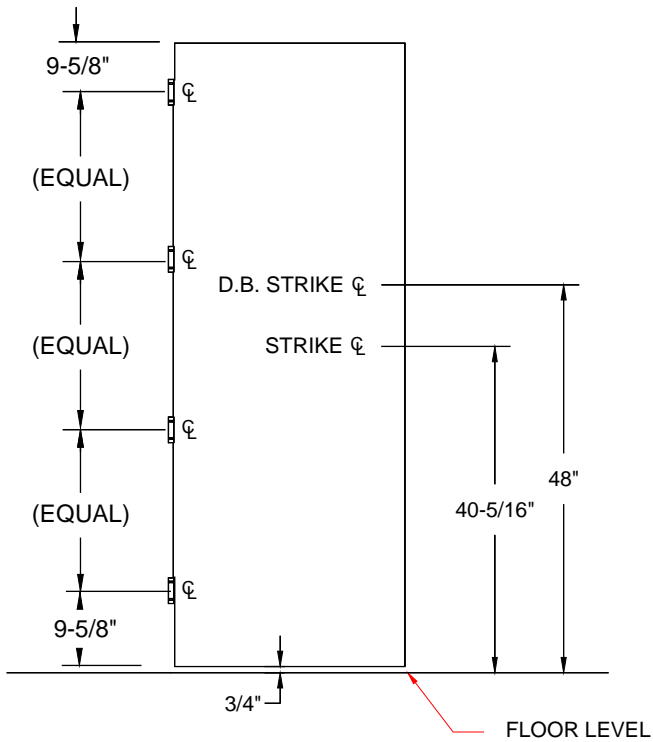
4-HINGES



3-HINGES



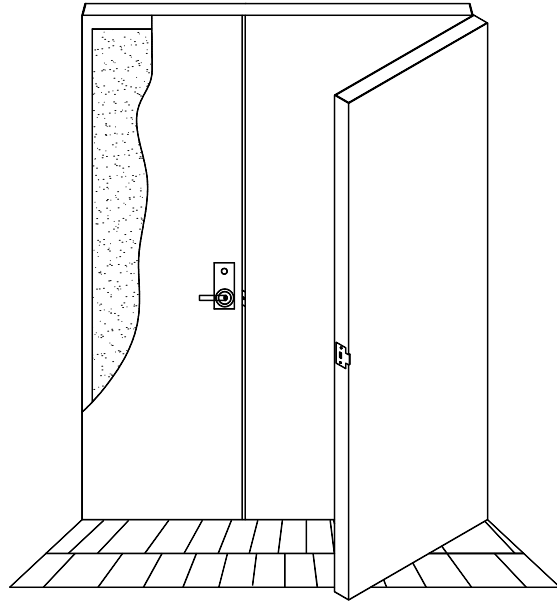
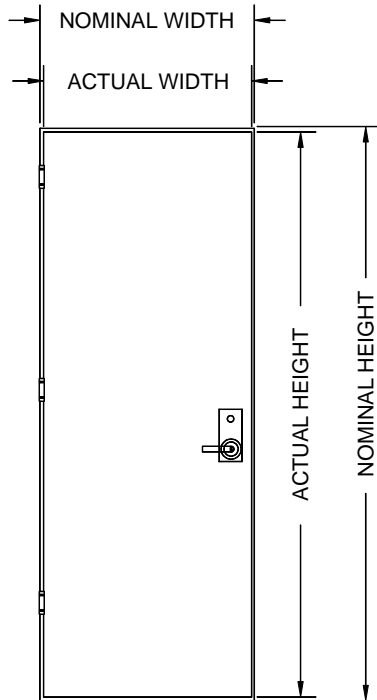
4-HINGES



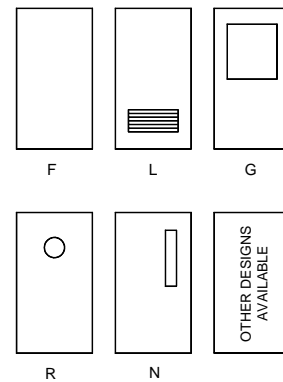
STANDARD SPECIFICATION

MATERIAL: GALVANNEAL

GAUGE: 18

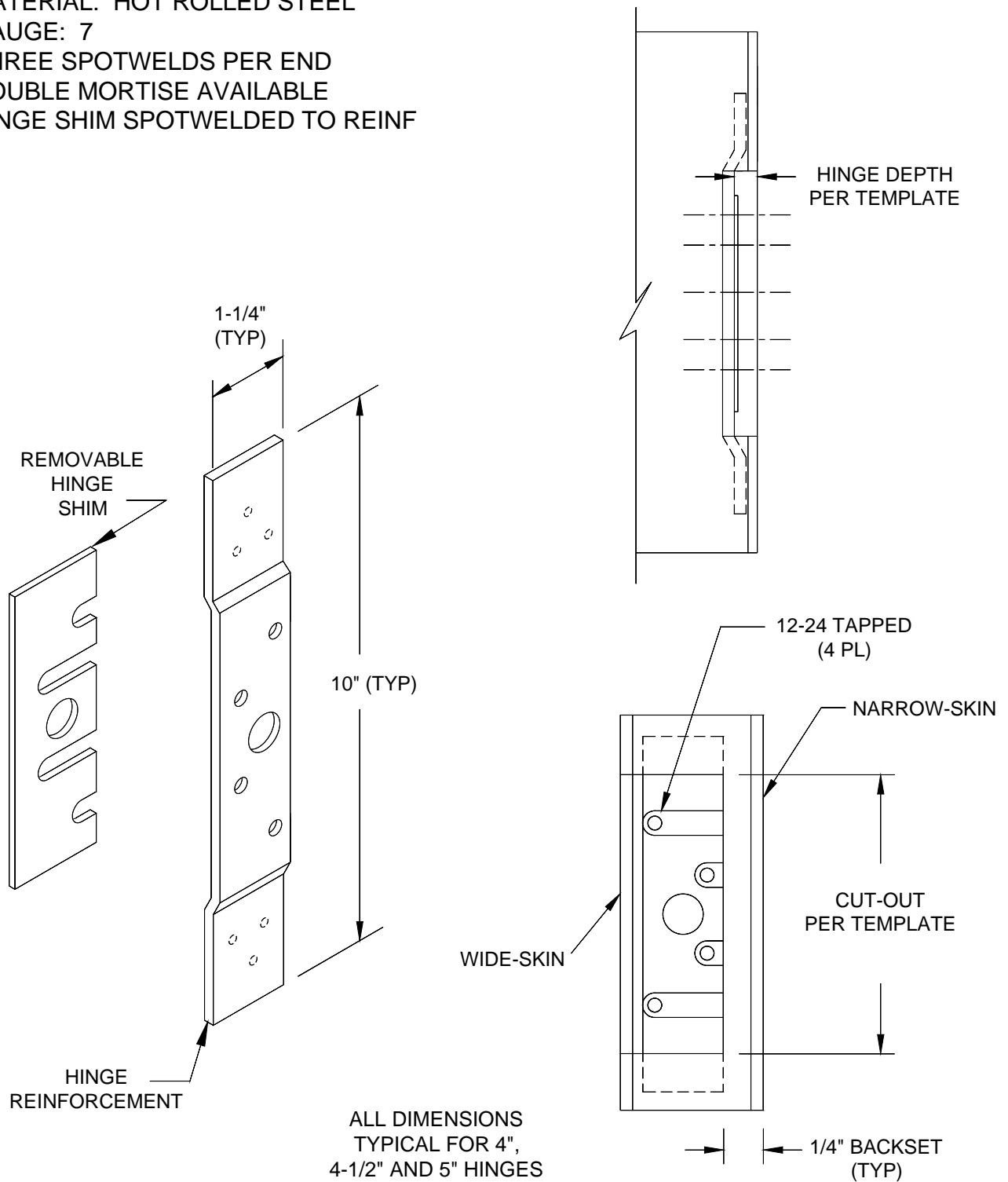


- 1.) 1-3/4" STANDARD DOOR THICKNESS, OTHER THICKNESSES AVAILABLE.
- 2.) 16, 14 AND 12 GAUGE AVAILABLE.
- 3.) G90 GALVANIZED AVAILABLE. STAINLESS STEELS 304 AND 316 AVAILABLE IN #4-SATIN, #2B-MILL OR #8-MIRROR FINISHES.
- 4.) .7 LB DENSITY POLYSTYRENE CORE PERMANENTLY BONDED TO BOTH FACE SHEETS. 1 LB DENSITY CORE AVAILABLE.
- 5.) THERMAL BARRIER R-FACTOR: 2.39-2.69 TESTED PER ASTM C1199/E1423
- 6.) 18 GA TOP AND BOTTOM CHANNELS SPOTWELDED TO FACE SHEETS.
- 7.) CONTINUOUS WELD SEAMLESS EDGE (STANDARD FOR MILD STEEL - OPEN SEAM AVAILABLE).
OPEN SEAM EDGE (STANDARD FOR STAINLESS STEEL - SEAMLESS AVAILABLE).
- 8.) HARDWARE REINFORCEMENTS:
3/16" FOR HINGES
12 GA FOR LOCKS
14 GA FOR CLOSER
- 9.) WHI LABELS AVAILABLE



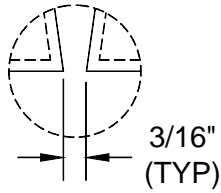
STANDARD DOOR HINGE REINF

MATERIAL: HOT ROLLED STEEL
 GAUGE: 7
 THREE SPOTWELDS PER END
 DOUBLE MORTISE AVAILABLE
 HINGE SHIM SPOTWELDED TO REINF

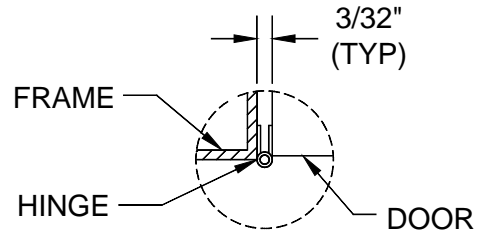


STANDARD CLEARANCES

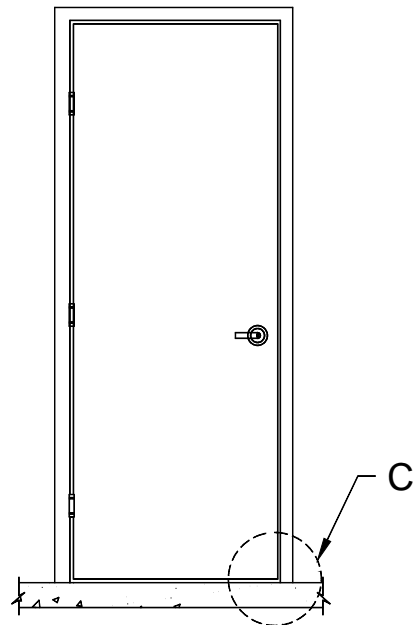
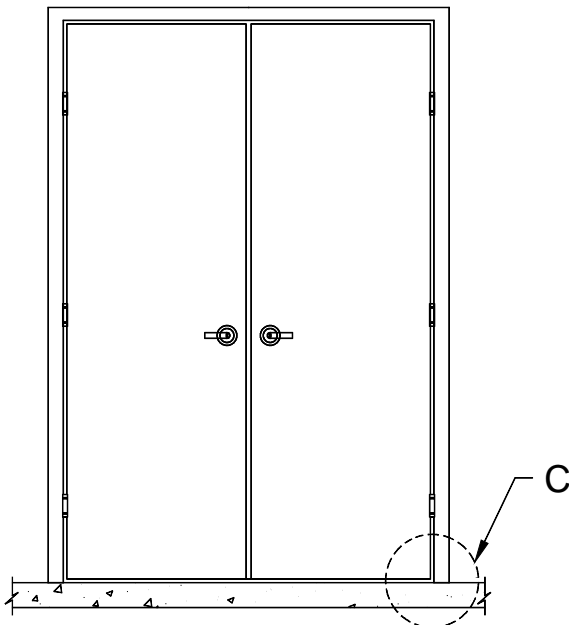
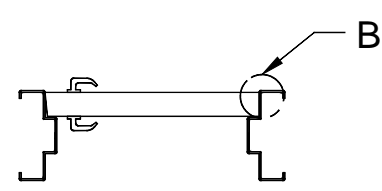
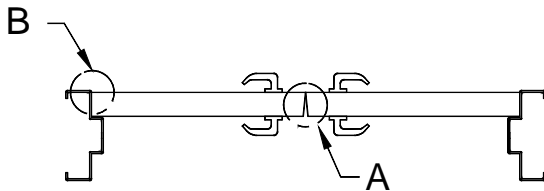
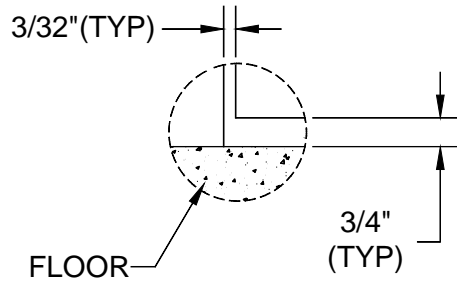
DETAIL "A"



DETAIL "B"



DETAIL "C"

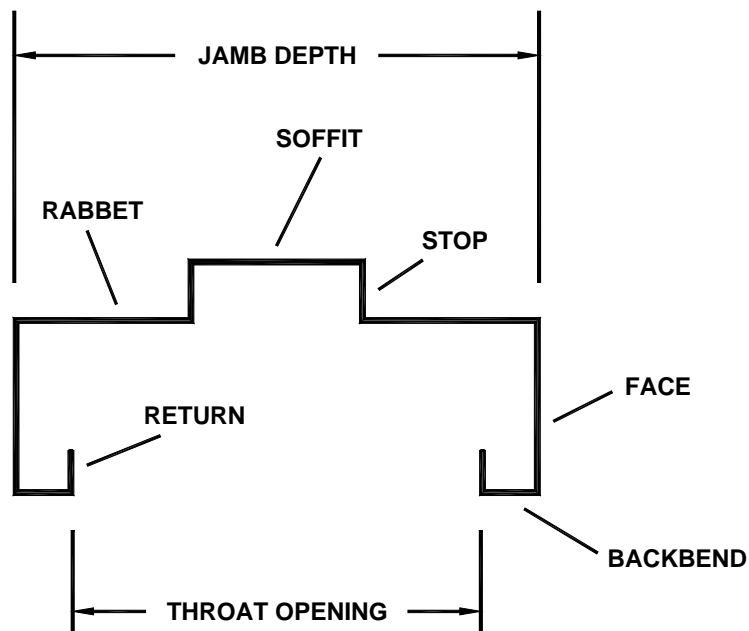


FIRE RATED DOOR AND FRAME GENERAL REQUIREMENTS

These requirements apply to all fire rated doors, frames, and windows.

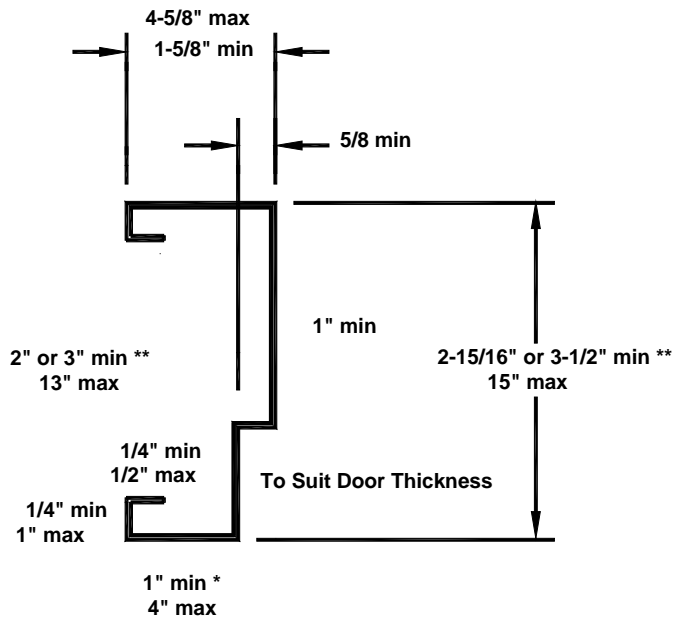
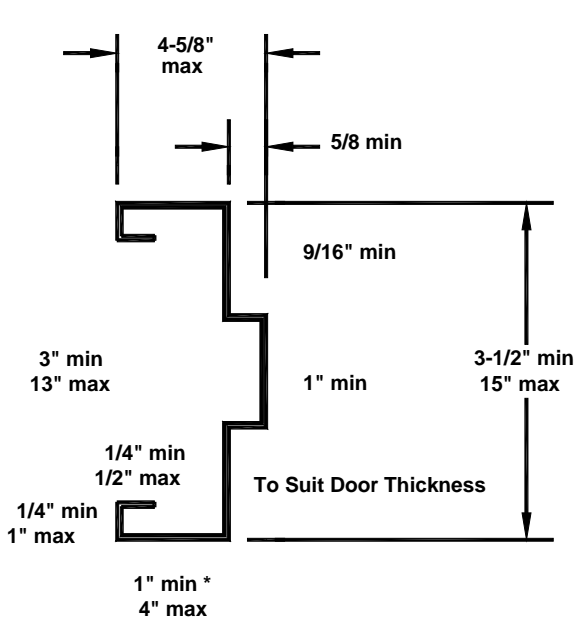
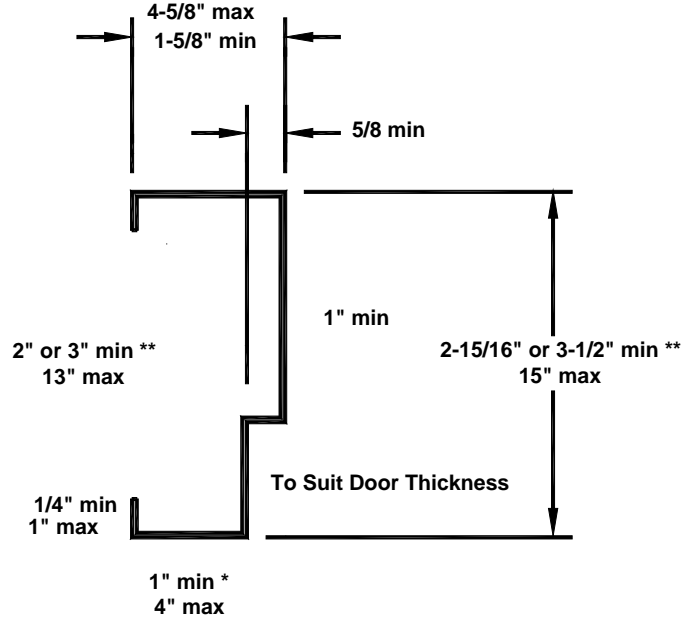
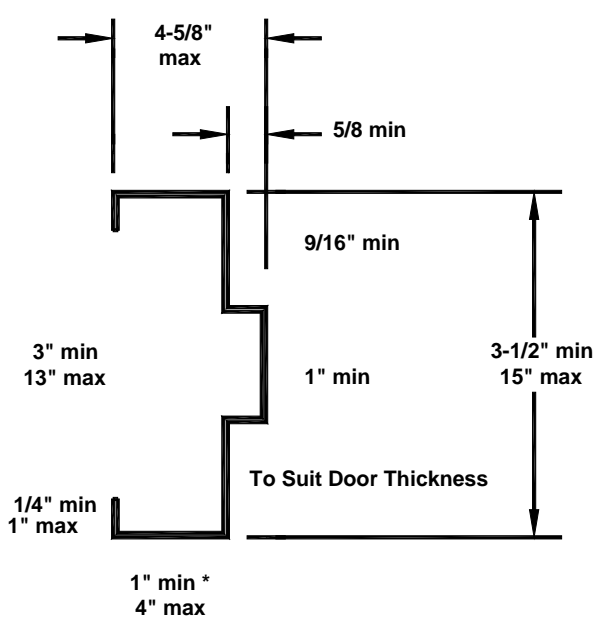
Requirements for the installation of these assemblies are included in the Standard of the National Fire Protection Association for Fire Doors and Fire Windows, NFPA-80 and the Door Components' installation instructions.

Terminology used in describing these frames follows as closely as possible the American National Standard for Nomenclature for Steel Doors and Steel Door Frames, ANSI A250.7.



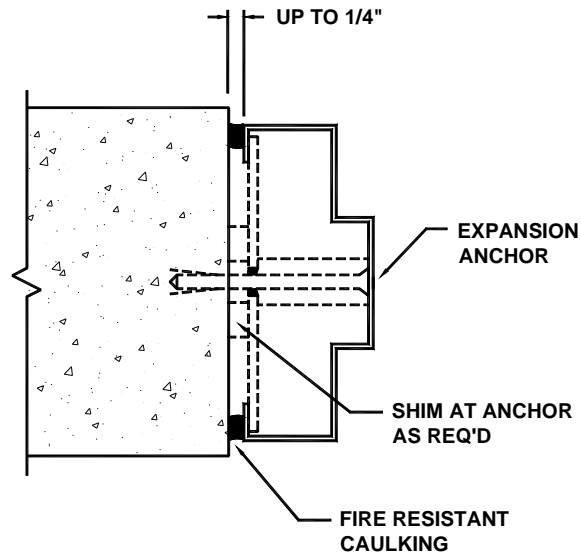
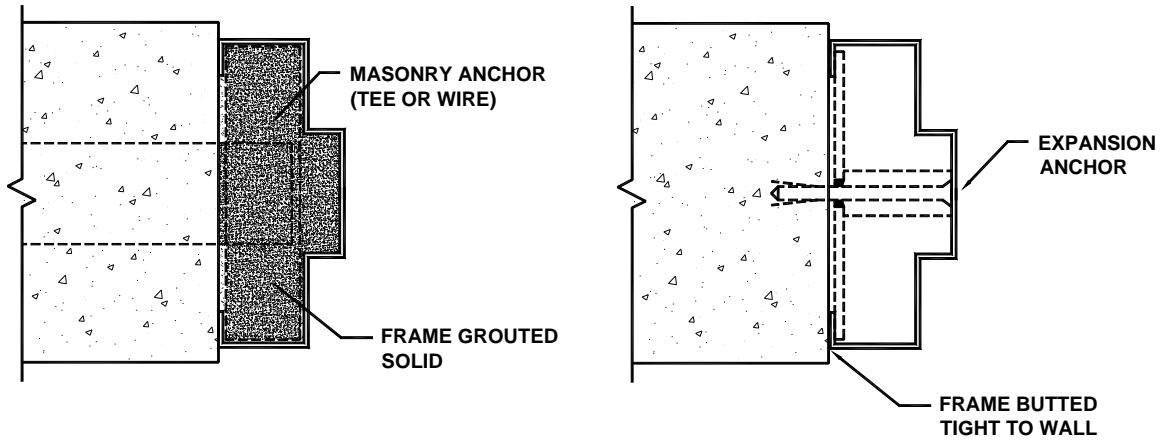
STANDARD FRAME PROFILES

Note: Minimum and maximum dimensions shown in this section may be further restricted by frame elevation and wall type.



* 1" min face permitted at masonry, 1-1/4" min at drywall

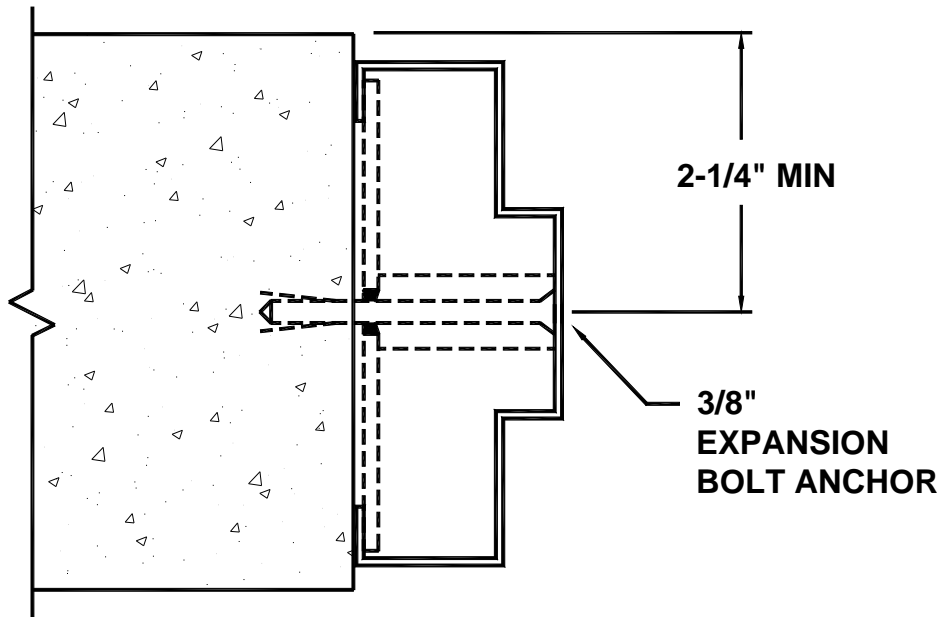
** 2" throat permitted when door side face is min 2" and opposite face is min 2-5/8"



EXPANSION BOLT ANCHORS

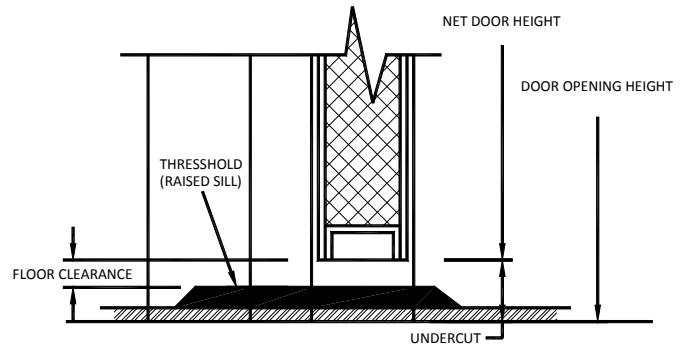
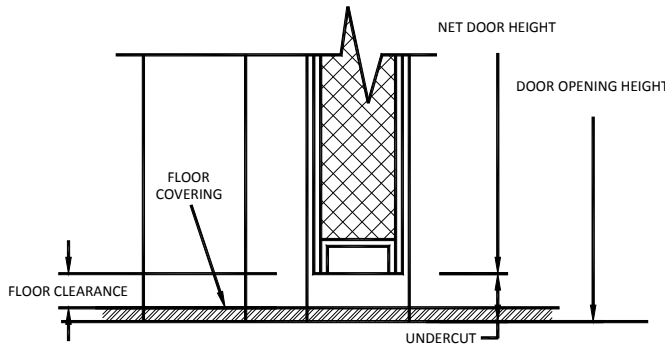
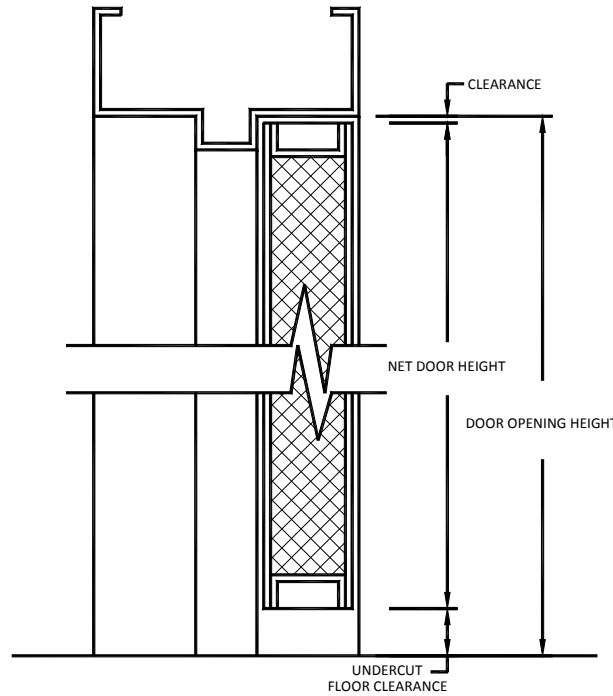
If expansion bolt anchors are to be used, the soffit shall be provided with 7/16" dimpled holes located not more than **6" from the top and bottom** with intermediate holes spaced no more than **26" on center**. The installer is to provide each hole with a minimum 3/8" roundhead bolt.

The bottom bolt acts as the base anchor. As such, adjustable type base anchors are not permitted at these frames as they would conflict with the required location of the bottom bolt.



No expansion bolt anchor shall be set closer to the edge of the wall opening than six times the diameter of the anchor or closer to another anchor than eight times the diameter of the anchor.

UNDERCUTS AT RATED DOORS



Minimum Clearances allowed:

Clearance Between Bottom of Door and ...	
raised sill *	3/8"
floor without sill	3/4"
rigid floor tiles	5/8"
floor coverings	1/2"

* Life Safety Code, NFPA 101, limits sill height to 1/2" in a means of egress.
Where ADA is applicable, ADA limits sill height to 1/2" at all accessible doors.

APPENDIX I

GEOTECHNICAL INVESTIGATION

**GEOTECHNICAL INVESTIGATION
HILLERY DRIVE IMPROVMENTS
MIRA MESA AREA OF THE
CITY OF SAN DIEGO, CALIFORNIA**

Project No. 209E41

January 5, 2013

Prepared for:

GHD, Inc.
7750 Convoy Court, Suite 220
San Diego, California 92111

• 1465 E. LEXINGTON AVENUE, UNIT 7A EL CAJON, CALIFORNIA 92019 •
(619)442-8022 • sgc.geo@att.net

SGC Southland Geotechnical Consultants

January 5, 2013

Project No. 209E41

To: GHD, Inc.
7750 Convoy Court, Suite 220
San Diego, California 92111

Attention: Mr. Greg Campbell

Subject: Geotechnical Investigation, Hillery Drive Improvements
Mira Mesa Area of San Diego, California

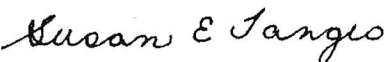
Dear Mr. Campbell,

Southland Geotechnical Consultants has performed a geotechnical investigation for the design and construction of the proposed City of San Diego's Hillery Drive Improvements project in the Mira Mesa area of the City of San Diego, California. This report presents a summary of our studies and provides our recommendations, from a geotechnical standpoint, relative to the proposed project.


If you have any questions regarding this report, please contact our office. We appreciate this opportunity to be of service.

Sincerely,

SOUTHLAND GEOTECHNICAL CONSULTANTS


Susan E. Tanges, CEG 1386
Engineering Geologist




Joseph G. Franzone, GE 2189
Geotechnical Engineer



Distribution: (3) Addressee

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- Appendix B - Exploratory Pit Logs
- Appendix C - Laboratory Test Results
- Appendix D - Seismic Hazard Analysis
- Appendix E - Recommended Earthwork Specifications

1.0 Introduction

Southland Geotechnical Consultants has performed a geotechnical investigation for the proposed Hillery Drive Improvements project in the Mira Mesa area of San Diego, California (see Figure 1). This report summarizes the results of our geotechnical investigation and presents our conclusions and recommendations, from a geotechnical standpoint, regarding design and construction of the proposed project.

2.0 Scope of Services

The purpose of our geotechnical investigation was to evaluate the geotechnical conditions at the site and provide recommendations, from a geotechnical standpoint, regarding the design and construction of the proposed project. Following is a general summary of our scope of services for this project:

- Review of geotechnical maps and literature pertaining to the site and general vicinity. A list of the documents reviewed is presented in Appendix A.
- Review of preliminary project plans indicating the locations of the proposed improvements (retaining wall and new travel lane).
- Field reconnaissance to observe the existing surficial soil conditions at the subject property and nearby vicinity and to mark out proposed exploratory pit locations.
- Investigation of the subsurface geotechnical conditions by manual excavation, sampling and logging of three exploratory pits at the site. The approximate locations of the exploratory pits are shown on Figure 2. The logs of the exploratory pits are included in Appendix B.
- Laboratory testing of soil samples obtained during our subsurface investigation. The results of the laboratory tests are included in Appendix C.
- Geotechnical analysis of the accumulated data, including a seismic hazard analysis (Appendix D).
- Preparation of this report summarizing the results of our geotechnical investigation and presenting our conclusions and recommendations, from a geotechnical standpoint, for the design and construction of the proposed project.

3.0 Project Description

The project site is located along the north side of the existing road, Hillery Drive, east of Black Mountain Road in the Mira Mesa area of the City of San Diego, California. The eastern terminus of the project site coincides with the southern driveway access for the Home Depot shopping center complex. A mobile home park exists along the north side of the project site.

We understand that the proposed improvements will generally include the addition of a westbound travel lane on the north side of Hillery Drive and a retaining wall along its northern edge to accommodate grade differences between the widened roadway and adjacent mobile home park.

4.0 Subsurface Investigation

For our geotechnical investigation studies, three exploratory pits (P-1, P-2 and P-3) were manually excavated at the site on December 12, 2012. The exploratory pits were excavated to a maximum depth of approximately 5 feet below the existing ground surface. The exploratory pits were logged and sampled by an engineering geologist from our firm. The soils were visually and texturally classified in the field in general accordance with the Unified Soil Classification System (USCS). The approximate locations of the exploratory pits are indicated on the Exploratory Pit Location Map (Figure 2). The logs of the exploratory pits are included in Appendix B. Subsequent to logging, the pits were backfilled with the excavated soils.

5.0 Laboratory Testing

Representative samples of the onsite soils were obtained from the exploratory pits. Laboratory tests were performed on these samples to evaluate the pertinent soils engineering characteristics. Laboratory tests included expansion index, maximum dry density/optimum moisture content, direct shear (remolded), R-value, pH, soil resistivity, soluble sulfate content and soluble chloride content tests. Summaries of the laboratory test procedures and the results of the laboratory tests are presented in Appendix C.

6.0 Review of Geologic Maps

We have reviewed geologic maps pertaining to the general project area including the City of San Diego Seismic Safety Study, California Geological Survey (CGS) geologic maps, and a CGS Landslide Hazard Identification Map (Appendix A). Please note that these maps are primarily intended for planning purposes. Although they are not intended for evaluation of individual sites, they can provide general indications of the presence of known geologic hazards.

6.1 City of San Diego Seismic Safety Study

Our review of Geologic Hazards and Faults Sheet 35 of the City of San Diego Seismic Safety Study (Appendix A) indicates that the Hillery Drive Improvements project site is located in Geologic Hazard Category 52 (see Figure 1). Category 52 is one of several categories that describe and assign a relative risk to "other level areas" and "gently sloping to steep terrain" with "favorable geologic structure", and is assigned a "low risk"

6.2 State Geologic Maps - Our review of California Division of Mines and Geology Bulletin 200, Poway quadrangle (Kennedy and Peterson, 1975) indicates that the site is mapped as being underlain by the geologic unit known as the Lindavista Formation. The early Pleistocene Lindavista Formation was described in Bulletin 200, as "reddish-brown sandstone and conglomerate."

Our review of the California Geological Survey's more recent, online Regional Geologic Map Series map (Kennedy and Tan, 2008) has the site mapped as being underlain by "middle to early Pleistocene, very old paralic deposits, undivided". Paralic is defined as coastal sediments deposited "by the sea, but nonmarine" in the Glossary of Geology (American Geological Institute).

6.3 Landslide Hazard Identification Map - Our review of the CGS (formerly California Division of Mines and Geology) Open-File Report 95-04 (Tan and Giffen, 1995) indicates that the property and general vicinity are mapped as Zone 2. Zone 2 pertains to "marginally susceptible" areas which include "gentle to moderate slopes, where slope angles are generally less than 15 degrees.... and landslides and other slope failures are rare...". No known or suspected landslides are mapped on or near the property.

6.4 Fault-Rupture Hazard Zones Map - Our review of the CGS Special Publication 42 (Hart, 1997) indicates that the site and general vicinity are not located within a State-delineated Alquist-Priolo Earthquake Fault Zone.

7.0 Summary of Geotechnical Conditions

7.1 Geologic Setting

The City of San Diego is located in the coastal section of the Peninsular Ranges geomorphic province. The northwesterly-trending mountain ranges of this province are generally underlain by basement rocks consisting of Jurassic metamorphic rocks intruded by Cretaceous igneous rocks of the southern California batholith. During the past 54 million years, the western coastal flank of this mountainous area has experienced several episodes of marine inundation and subsequent regression. This resulted in deposition of a sequence of marine and nonmarine sediments (claystones, siltstones, sandstones and conglomerates) on the basement rocks in this area. During the past 2 million years, terrace deposits associated with various, relatively static sea level stands were deposited and mantle the coastal terrain.

7.2 Soil/Geologic Units

Based on our review of geologic maps (Appendix A) and as encountered in our geotechnical investigation, the project site appears to be underlain by existing fill soils, natural soil and the geologic formation known as the Lindavista Formation. Brief descriptions of these units follow:

7.2.1 Existing Fill Soils

Fill soils were encountered in all three of our exploratory pits and generally consisted of locally-derived, dark red-brown, silty to clayey fine sand with roots and gravel/cobble. The fill soils are considered potentially compressible and, in their present state, should not be relied upon for the support of fill and/or structural loads. These soils were generally 1.5 to 3 feet thick but localized deeper accumulations of these soils may exist at the site (including the backfill soils in our exploratory pits). Based on visual and textural evaluation, the onsite fill soils are similar to soils found to have a medium expansion potential when tested in general accordance with ASTM test method D4829. Recommendations for the treatment of the potentially compressible fill soils are presented in Section 8.1.3 of this report.

7.2.2 Natural Soil

Natural soil was encountered underlying the fill soils in all three our exploratory pits and generally consisted of red-brown, silty to clayey fine sand underlain by gray sandy clay. The natural soil is considered potentially compressible and, in its present state, should not be relied upon for the support of fill and/or structural loads. These soils were generally 1.5 to 2.5 feet thick but localized thicker intervals of these soils may exist at the site. A sample of the gray clayey natural soils was tested in general accordance with ASTM test method D4829 and found to have a very high expansion potential (expansion index = 133, see Appendix C). Recommendations for the treatment of the potentially compressible fill soils and treatment of expansive soils are presented in Section 8.1.3 and Section 8.1.4 of this report, respectively.

7.2.3 Lindavista Formation

The geologic unit termed Lindavista Formation (or “old paralic deposits”) was encountered underlying the natural soil in all three of our exploratory pits. The Quaternary-aged Lindavista Formation is the geologic formation that apparently underlies the entire site. As encountered in our exploratory pits, the Lindavista Formation generally consisted of gray, very dense, well-cemented (“hard”), gravel-cobble conglomerate. The very dense Lindavista Formation is considered suitable for the support of fill and/or structural loads. Based on visual and textural evaluation, the onsite Lindavista Formation gravel/cobble conglomerate is similar to soils found to have a medium expansion potential when tested in general accordance with ASTM test method D4829.

7.3 Groundwater and Surface Water

Indications of a near-surface groundwater table were not observed during our site visit or in our subsurface exploratory pits. Groundwater is not anticipated to be a constraint to the proposed project, however, our experience indicates that near-surface groundwater conditions can develop in areas where no such groundwater conditions previously existed, especially in areas where a substantial increase in surface water infiltration results from landscape irrigation or unusually heavy precipitation. In addition, groundwater levels may be locally perched and may also fluctuate in response to seasons and the effects of global warming. It is anticipated that the project will include appropriate drainage provisions for control and discharge of surface water runoff.

7.4 Faulting and Seismicity

7.4.1 Faulting

Our review of the California Geological Survey's Alquist-Priolo Earthquake Fault Zones map (Appendix A) indicates that the site is not located within the boundaries of an Earthquake Fault Zone. An "active" fault is defined by the California Division of Mines and Geology as one which has "had surface displacement within Holocene time (about the last 11,000 years)". The State of California delineates Alquist-Priolo Earthquake Fault Zones along most active faults.

Nearby known active regional faults are the Rose Canyon fault located approximately 9 miles westerly of the site, the Coronado Bank fault located offshore approximately 21 miles west of the site, the Newport-Inglewood fault located approximately 24 miles northwest of the site, and the Elsinore fault located approximately 29 miles northeast of the site. The San Andreas fault is located approximately 77 miles northeasterly of the site.

7.4.2 Seismicity/Design Parameters

Southern California, including the City of San Diego and project site, are located within a seismically active region. The principal seismic considerations for most structures in southern California are damage caused by surface rupturing of fault traces, ground shaking, seismically-induced ground settlement or liquefaction. The seismic hazard most likely to impact the site is ground shaking resulting from an earthquake on one of the major active regional faults. The possibility of damage due to ground rupture will be evaluated after the completion of our proposed field work.

Based on a deterministic approach, Table 1 indicates potential seismic events that could be produced by "Maximum Credible Earthquake" events. A maximum credible earthquake is defined as the maximum event that a fault is capable of producing considering its known tectonic setting. As indicated in Table 1, the Rose Canyon fault zone is considered to have the most significant effect on the site from a design standpoint. The maximum credible earthquake event on this fault is expected to produce a horizontal ground surface acceleration at the site of 0.32g.

From a probabilistic (risk-based) approach, the 2010 California Building Code (CBC) design earthquake for the site is the Maximum Considered Earthquake event, having a 2 percent probability of being exceeded in 50 years. This equates to an approximate return period of 2,475 years. The CBC design earthquake event is expected to produce a peak horizontal ground surface acceleration at the site of 0.42g.

Site-specific seismic parameters included in Table 1 are the distances to the causative faults, earthquake magnitudes, and expected peak ground accelerations based on typical attenuation relationships for sites with similar soils conditions as the subject property.

Table 1 Seismic Parameters for Active Faults (Blake, 2004a)				
Fault	Approximate Distance from Fault to Site (miles)	Maximum Credible Earthquake		2010 CBC Maximum Considered Earthquake Site Acceleration
		Moment Magnitude	Peak Ground Acceleration (gravity)	
Rose Canyon	8.7	7.2	0.32	0.42g
Coronado Bank	21.4	7.6	0.20	
Newport-Inglewood	24.4	7.1	0.14	
Elsinore	29.5	7.1	0.12	

The effects of seismic shaking can be reduced by adhering to the most recent edition of the CBC and current design parameters of the Structural Engineers Association of California. Our seismic hazard analysis is included as Appendix D.

Based on our current, limited understanding of the onsite geotechnical conditions, the seismic design parameters from the CBC Section 1613 are included in the following table:

Table 2 2010 CBC Seismic Design Parameters		
CBC Section	Factor/Class	Value
Table 1613.5.2	Site classification	D
Section 1613.5.1	S_s , Short period spectral acceleration *	1.059g
Section 1613.5.1	S_1 , One second period spectral acceleration *	0.385g
Table 1613.5.3(1)	F_a	1.077
Table 1613.5.3(2)	F_v	1.63
Section 1613.5.3	S_{MS}	1.140g
Section 1613.5.3	S_{M1}	0.628g
Section 1613.5.4	S_{DS}	0.760g
Section 1613.5.4	S_{D1}	0.418g

*from USGS, 2011, Earthquake Ground Motion Parameters, version 5.1.0, Feb 10, 2011

Secondary effects associated with severe ground shaking following a relatively large earthquake on a regional fault that may affect the site include soil liquefaction and dynamic settlement, lurching and shallow ground rupture, lateral spreading, tsunami, and seiches. These secondary effects of seismic shaking are discussed in following sections.

7.4.3 Liquefaction and Dynamic Settlement

Liquefaction and dynamic settlement of soils can be caused by strong vibratory motion due to earthquakes. Both research and historical data indicate that loose, saturated, granular soils are susceptible to liquefaction and dynamic settlement, while the stability of silty clays and clays is not adversely affected by vibratory motion. Liquefaction is typified by a total loss of shear strength in the affected soil layer, thereby causing the soil to flow as a liquid. Liquefaction may manifest itself as excessive settlement and sand boils at the ground surface.

It is our opinion that the potential for significant liquefaction and/or seismically-induced dynamic settlement at the site due to the design earthquake event is low because of the depth to groundwater, and the grain-size characteristics, age, and dense nature of the Lindavista Formation.

7.4.4 Lurching and Shallow Ground Rupture

Soil lurching refers to the rolling motion on the ground surface by the passage of seismic surface waves. Effects of this nature are likely to be significant where the thickness of soft sediments varies appreciably under structures. Damage to the proposed project should not be significant since a relatively large differential fill thickness is not anticipated to exist below the proposed improvements.

Cracking due to shaking from distant seismic events is not considered a significant hazard, although it is a possibility at any site in southern California.

7.4.5 Tsunami and Seiches

A tsunami is a sea wave generated by submarine earthquakes, landslides or volcanic activity which displace a relatively large volume of water in a very short period of time. Seiches are defined as oscillations in a semi-confined body of water (such as Miramar Reservoir) due to earthquake shaking or fault rupture. Because of the elevation of the site above mean sea level (higher than approximately 500 feet) and distance from bodies of water, the potential for a tsunami (or seiche) to negatively impact the site is very low.

In addition, our review of recently published maps by the California Emergency Management Agency (CEMA) and others (2009), indicate that the site is not within a "tsunami hazard zone".

8.0 Conclusions and Recommendations

Based on the results of our geotechnical investigation, it is our opinion that the construction of the proposed Hillery Drive Improvements project is feasible from a geotechnical standpoint. The primary geotechnical factors impacting the project are the presence of potentially compressible soils and the presence of expansive soils. The following sections discuss the geotechnical factors affecting the site and provide recommendations which should be considered for design and construction of the proposed project components.

8.1 Earthwork

From our understanding of the Hillery Drive Improvements project, site grading, primarily excavation, will be performed to prepare the site and attain design finished grades for the proposed retaining wall and new travel lane. Site earthwork should be performed in accordance with the following recommendations, the City of San Diego grading guidelines, and the Recommended Earthwork Specifications provided in Appendix E. In the event of conflict, the recommendations presented herein supersede those of Appendix E.

8.1.1 Site Preparation

Prior to grading and construction activities, the site should be cleared of the existing improvements, vegetation, debris and loose soils. Vegetation and debris should be properly disposed off site. Holes resulting from removal of buried obstructions which extend below finished site grades should be filled with properly compacted soils.

8.1.2 Excavation/Oversize Material

Excavation of the onsite soils at the site of the retaining wall is generally anticipated to be able to be accomplished with conventional heavy-duty earthwork equipment. However, **very dense, well-cemented ("hard") layers of the Lindavista Formation sandstone/conglomerate may present excavation difficulties and may require extra effort for excavation (i.e. jackhammering)**. All excavations should be in accordance with OSHA requirements. It is possible that scattered amounts of oversize material may be encountered during excavation or generated during excavation of well-cemented zones. These materials should be hauled off site and disposed in accordance with applicable codes and regulations.

8.1.3 Treatment of Potentially Compressible Soils (Removal)

The existing fill soils and natural soil are considered potentially compressible and unsuitable for the support of fill and/or structural loads in their present condition. Most of these soils will be removed during excavation to attain finished design grades for the Hillery Drive Improvements (i.e. retaining wall).

As encountered in our exploratory pits, the potentially compressible soils apparently underlie the majority of the project site. Localized areas of deeper removal of these compressible soils may be recommended during grading. The thickness and extent of these soils may vary and should be evaluated by the geotechnical consultant during grading. Modifications to the removal limits can be evaluated on a case-by-case basis.

Excavation slopes for removals, in general, should be no steeper than 1 to 1, should be away from existing improvements (including offsite improvements), and should be constructed in accordance with CAL-OSHA guidelines. The excavated soils are anticipated to be clayey but can be considered for re-use as compacted, structural fill provided they are free of organic material, deleterious debris and oversized materials (rocks with a maximum dimension of greater than 6 inches). Onsite soils with an expansion index greater than 50 (per ASTM D4829) should not be used as structural fill within 3 feet of finished grade. Imported fill soils should be granular, have an expansion index of less than 20 (per ASTM Test Designation 4829), and have no particles over 6 inches in maximum dimension. Placement and compaction of fill should be performed in general accordance with the current local grading ordinances, sound construction practices, and the Recommended Earthwork Specifications presented in Appendix E.

8.1.4 Treatment of Expansive Soils

The onsite clayey natural soil overlying the Lindavista Formation in exploratory pit P-2 (at 3.5-4.25 feet deep) was tested in general accordance with ASTM Test Designation 4829 and found to have a very high expansion potential (Appendix C). Our textural and visual evaluation indicate that the overlying interval of natural soil (clayey sand) and near-surface fill soils likely have a medium expansion potential. It is anticipated that most of these soils with medium to very high expansion potential will be removed during excavation for the proposed Hillery Drive

Improvements project's retaining wall. Imported fill soils should be granular with an expansion index of less than 20 (per ASTM Test Designation 4829). If the soils with the high expansion potential are excavated, they should not be placed as fill within 3 feet of finished grade (where they are subject to moisture fluctuations). Our foundation and slab recommendations assume that the near-surface soils below slabs subgrade will have a medium expansion potential (see Section 8.2).

8.1.5 Structural Fill Placement

The existing onsite soils appear to be suitable material for structural fill provided they are relatively free of organic material, debris, and rock fragments larger than 6 inches in maximum dimension. Areas to receive fill should be scarified to a minimum depth of 6 inches, brought to near-optimum moisture conditions, and compacted to at least 90 percent relative compaction, based on laboratory standard ASTM D1557. Fill soils should be brought to near-optimum moisture conditions and compacted in uniform lifts to at least 90 percent relative compaction (ASTM D1557). The optimum lift thickness to produce a uniformly compacted fill will depend on the size and type of construction equipment used. In general, fill should be placed in uniform lifts not exceeding 8 inches in loose thickness. Placement and compaction of fill should be observed and tested by the geotechnical consultant. In general, placement and compaction of fill should be performed in accordance with local grading ordinances, sound construction practices, and the Recommended Earthwork Specifications presented in Appendix E.

8.1.6 Temporary Excavation Stability - Retaining Wall and Trenches

A retaining wall is planned as part of the project and relocation of utility trenches are anticipated. All excavations for proposed improvements should be in accordance with guidelines set forth by CAL-OSHA. Care should be taken during excavation adjacent to the existing improvements so that undermining does not occur. Excavations in loose soils may be prone to caving or failure. It is anticipated that vertical or near-vertical excavations in the onsite soils up to a maximum height of 5 feet will be generally stable, but localized areas may need to be shored for the safety of workers and to reduce the potential for damage to adjacent improvements due to failure of an excavation. Loose gravel/cobble in the onsite soils may also become dislodged during construction activities and

fall into open excavations and potentially injure workers. The stability of temporary excavation slopes is also adversely impacted by the presence of existing utility trenches in the project area.

Shoring protection may be prudent for worker safety and to safeguard existing utilities and improvements. Shoring should be designed by a qualified structural engineer retained by the contractor and the design should consider the contractor's methods and sequence of excavation. It is the responsibility of the contractor to retain a qualified consultant to inspect and monitor excavations for unstable soil conditions in cut faces. Shoring of all excavations is the responsibility of the contractor. Excavated and/or backfill soils should not be stockpiled at the top of temporary excavations (or trenches) or in close proximity (within the area defined by a 45-degree angle from the bottom of the temporary excavation or trench). Vehicles or equipment should also not be allowed to remain in close proximity to the top of temporary excavations (or trenches).

8.1.7 Trench Excavatability

Based on our geotechnical investigation, the onsite soils are anticipated to be generally excavatable by conventional trench excavation equipment in good operating condition. However, **very dense, well-cemented zones with gravel/cobble in the Lindavista Formation were encountered in our exploratory pits. Very dense, well-cemented ("hard") zones and/or layers of gravel/cobble may also be encountered during grading and retaining wall foundation excavation in the Lindavista Formation and may require greater excavation effort (i.e. jackhammering).**

8.1.8 Trench Bottom Stability

The bottoms of trenches for any relocated utilities are anticipated to expose dense to hard conglomerate of the Lindavista Formation. If the bottom of an excavation exposes areas that are wet or saturated, the bottom of such excavations may need to be stabilized. A typical stabilization method includes the overexcavation of the wet soils and replacement with properly compacted fill, gravel or lean concrete to form a "mat" or stable working surface in the bottom of the excavation. Other acceptable methods can be substituted and can be discussed on a case-by-case basis.

8.1.9 Pipe Bedding/Trench Backfill

We recommend that pipe bedding materials be placed in trenches to provide uniform support and protection of the pipe. Bedding is defined as that material supporting, surrounding and extending to about one foot above the top of pipe. The bedding detail should be provided by the civil engineer in accordance with City of San Diego requirements.

8.2 Foundation/Slab Design

8.2.1 Foundations - Retaining Wall

We understand that the proposed Hillery Drive Improvements project will include construction of a retaining wall along the northern perimeter of the project site. The retaining wall foundation should be designed in accordance with structural considerations and the following recommendations. These recommendations assume that the near-surface soils during foundation excavation will have a medium expansion potential (based on ASTM D4829). These recommendations also assume that the onsite potentially compressible fill soils and natural soil will not be used for support of the proposed structure. The foundation elements are anticipated to be founded in dense to hard Lindavista Formation conglomerate/sandstone.

The proposed retaining wall may be supported by continuous footings bearing entirely in dense to hard Lindavista Formation at a minimum depth of 18 inches beneath the lowest adjacent grade (with a minimum one-foot embedment into dense formational soils). Continuous footings should have a minimum width of 15 inches and be reinforced, at a minimum, with four No. 5 rebars (two near the top and two near the footing bottom). Isolated spread footings should be avoided.

For footings designed in accordance with the above recommendations, an allowable soil-bearing capacity of 2,000 pounds per square foot may be assumed. This value may be increased by one-third for loads of short duration such as wind and seismic loads.

8.2.2 Sidewalk Slabs

Concrete slabs on grade (i.e sidewalks) should be designed in accordance with City of San Diego guidelines, structural considerations and the

following recommendations. Concrete slabs on grade underlain entirely by Lindavista Formation (or properly compacted fill soils) with a medium expansion potential (E.I. less than 50 per ASTM D4829) should have a minimum thickness of 5 inches and be reinforced at midheight with No. 4 rebars at 18 inches on center, each way). Care should be taken by the contractor to insure that the reinforcement is placed at slab midheight.

Slabs should be designed with crack control joints at appropriate spacings for the anticipated loading. In moisture-sensitive areas, slabs should be underlain by a 2-inch layer of clean sand (sand equivalent greater than 30) which is underlain by a 10-mil moisture barrier. The potential for slab cracking may be lessened by careful control of water/cement ratios. The use of low slump concrete is recommended. Appropriate curing precautions should be taken during placement of concrete during hot weather. We recommend that the upper approximately one foot of soil beneath concrete slabs-on-grade be moistened to 5 percent over optimum moisture content prior to placing the sand blanket, moisture barrier and concrete.

Please note that our recommendations for foundations and slabs are minimum design parameters. The project structural engineer is responsible for final design of the foundations and concrete slabs on grade. In addition, our recommendations are not intended to eliminate the possibility of cracks due to concrete shrinkage. Shrinkage cracks develop in nearly all slabs which are not specifically designed to prevent them. We recommend that a structural consultant or qualified concrete contractor be consulted to provide appropriate design and workmanship requirements for mitigation of shrinkage cracks.

8.3 Lateral Resistance and Retaining Wall Design Pressures

Footings founded entirely in dense to very dense Lindavista Formation (or entirely in compacted fill soils) may be designed for a passive lateral pressure of 300 pounds per square foot per foot of depth. A coefficient of friction against sliding between concrete and soil of 0.3 may be assumed. These values may be increased by one-third when considering loads of short duration, such as wind and seismic forces.

Embedded structural walls should be designed for the lateral earth pressures exerted on them. The magnitude of these pressures depends on the amount of deformation that the wall can withstand under load. If the wall can yield

enough to mobilize the full shear strength of the soil, it can be designed for "active" pressure. If the wall cannot yield under the applied load, the shear strength of the soil cannot be mobilized and the earth pressure will be higher. Such walls should be designed for "at rest" conditions. If a structure moves toward the soils, the resulting resistance developed by the soil is the "passive" resistance.

For design purposes, the recommended equivalent fluid pressures in each case for walls (founded above the static ground water table) with level backfill consisting of gravel or imported soils of very low expansion potential (expansion index less than 20 per ASTM D4829) are presented in the following table.

<i>Equivalent Fluid Weight (pcf)</i>		
<i>Condition</i>	<i>Level</i>	<i>2:1 Sloping Backfill</i>
Active	35	60
At-Rest	55	70
Passive	350 (maximum of 3ksf)	-

Please note that retaining wall backfill soils meeting the aforementioned recommendations may not be available with the existing soils on site. Cantilever retaining walls will typically rotate at the top as the shear strength of the backfill soils is mobilized. Accordingly, crack-sensitive improvements should not be constructed near the top of the wall or structurally tied into the upper portion of the wall.

In accordance with Section 1803 of the 2010 CBC, the proposed retaining wall should be designed for the anticipated lateral pressures due to potential earthquake loading (which is in addition to the static lateral pressures presented herein). For design of site walls, a horizontal design acceleration of 0.2g may be used with a corresponding factor of safety of 1.2 under seismic loading. This is roughly equivalent to an additional 18H added to the equivalent fluid weight (for active pressure calculation). The resultant of the earthquake force is assumed to act at a distance of roughly 0.6H from the base of the retaining wall (where H is the height of the retained soil).

We recommend that retaining walls be provided with appropriate drainage provisions. A typical detail for drainage of retaining walls is included in Appendix E. The walls should also be appropriately waterproofed. Design of

waterproofing should be provided by the project civil engineer. Waterproofing should be protected during construction. Waterproofing treatments and alternative, suitable wall drainage products are available commercially. Wall backfill should be compacted by mechanical means to at least 90 percent relative compaction (ASTM D1557). Care should be taken when using compaction equipment in close proximity to retaining walls so that the walls are not damaged by excessive loading.

8.4 Preliminary Structural Pavement Design

The structural pavement section for surfacing City roadways should be in accordance with City of San Diego requirements for the project (refer to "Pavement Design Standards Schedule J" and "Trench Resurfacing Details" included in the City of San Diego Standard Drawings).

The appropriate pavement section depends primarily on the type of subgrade soil, shear strength, traffic load, and planned pavement life and City of San Diego guidelines. Our laboratory test yielded an R-value of "less than 5" for the soil sample tested (see Appendix C). Additional R-value testing may be warranted on the actual subgrade soils during grading of the area of the new travel lane. The appropriate traffic index should be evaluated by the City of San Diego and/or project civil engineer.

Cement-treated aggregate base, asphalt concrete and aggregate base should conform to and be placed in accordance with the latest revision of the California Department of Transportation Standard Specifications and Standard Specifications for Public Works Construction (Greenbook). Prior to placing the pavement section, the upper 12 inches of subgrade soil should be moisture-conditioned and have a relative compaction of at least 95 percent (ASTM D1557). Aggregate base should be compacted to at least 95 percent relative compaction (ASTM D1557).

The performance and service life characteristics of pavements are dependent on a number of factors including proper subgrade preparation, regular maintenance and seal coating. If pavement areas are adjacent to heavily-watered landscape areas, we recommend that moisture-control measures be taken to prevent the subgrade soils from becoming saturated. Concrete swales should be considered where asphaltic pavement is used for drainage of concentrated surface waters.

8.5 Soluble Sulfate and Chloride Content

Samples of the onsite soils were tested to evaluate the degree of sulfate attack on ordinary (Type II) concrete (see Appendix C). The tests were performed in general accordance with California Test Method No. 417 and yielded soluble sulfate contents of 0.087 and 0.039 percent. The test results indicate a “negligible” potential for sulfate attack based on CBC Section 1903.4 criteria.

A sample of the onsite soils was tested to evaluate the degree of chloride attack on ordinary (Type II) concrete (see Appendix C). The test was performed in general accordance with California Test Method No. 422 and yielded a soluble chloride content of 0.023 and 0.012 percent. The type of concrete specified and used should be determined by the structural engineer.

8.6 pH and Minimum Resistivity

A sample of the onsite soils was tested for pH and minimum resistivity to assist in an evaluation of the corrosion potential of metals in contact with the onsite soils. The test results are presented in Appendix C. The project architect and corrosion engineer should consider these test results in their specifications for onsite metals, including but not limited to, buried copper pipes and aluminum elements in close proximity to the onsite soils.

8.7 Site Drainage

Drainage should be directed away from foundations and collected and tightlined to appropriate discharge points. Water, either natural or from irrigation, should not be permitted to pond, saturate the surface soils or flow over the tops of slopes. Landscaping requiring a heavy irrigation schedule should not be planted adjacent to foundations or paved areas.

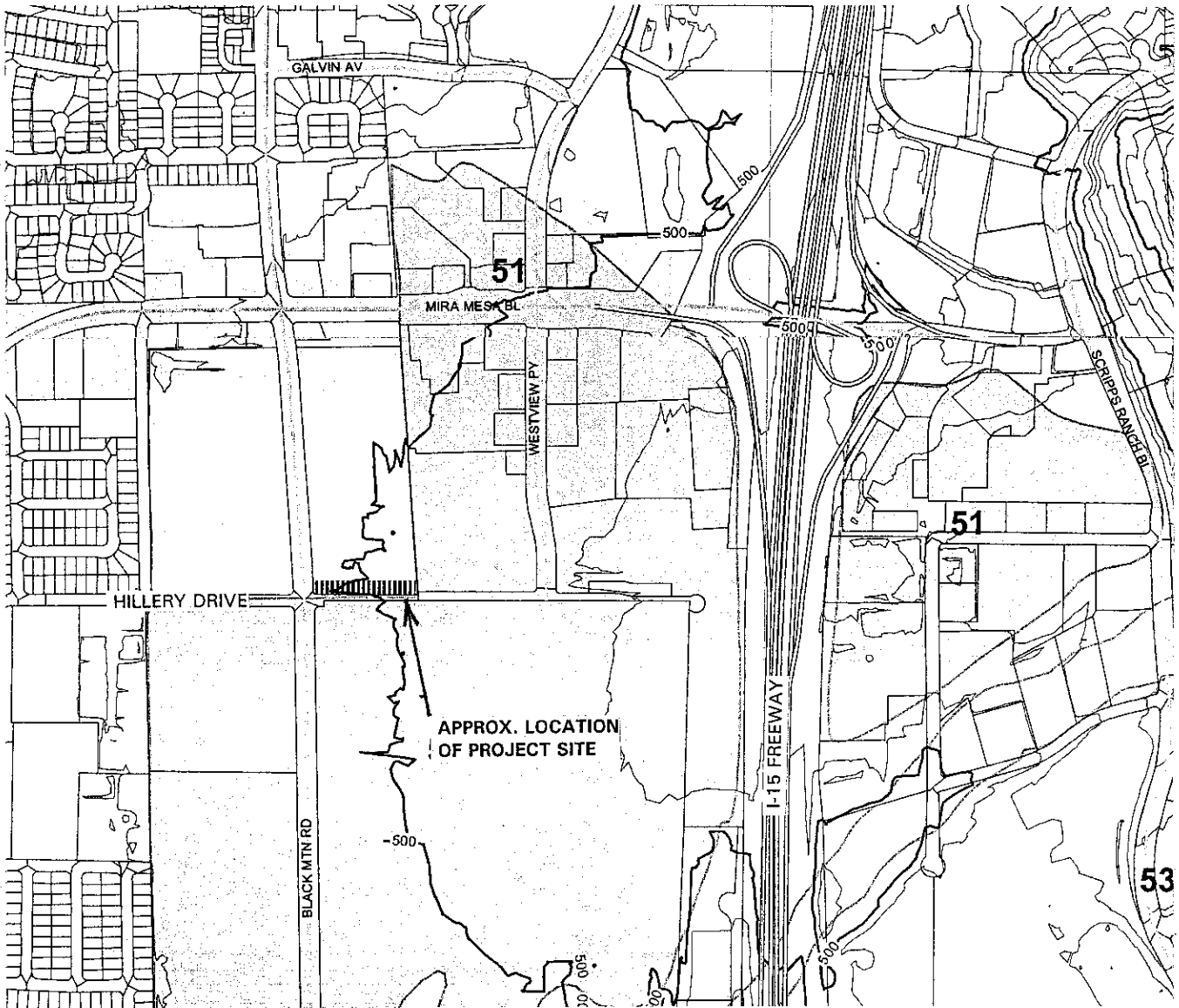
8.8 Environmental Issues

Evaluation of potential environmental and/or health issues such as, but not limited to, the presence or absence of hazardous waste or toxic materials and/or other substances or conditions which may or may not fall into these general categories was not included within the scope of this investigation. In addition, Southland Geotechnical Consultants does not practice or offer services relating to hazardous waste or toxic materials. Should you desire an evaluation relating to these or similar issues, we suggest that you contact appropriately licensed and experienced professionals for advice and/or recommendations.

8.9 Plan Review/Geotechnical Observation and Testing

There is no evaluation detailed enough to reveal every subsurface condition at a project site. In addition, modifications to these recommendations may occur if onsite geotechnical conditions are different than those assumed herein or if our assumptions of the proposed residential development are incorrect. The recommendations provided in this report are based on our current understanding of the project and interpolated subsurface conditions.

Final project drawings for the proposed project should be reviewed by Southland Geotechnical Consultants prior to construction to check that the recommendations contained in this report are incorporated into the project plans. Subsurface conditions should be checked in the field during construction. Geotechnical observation during site grading/preparation and field density testing of compacted fill (including trench backfill and retaining wall backfill) should be performed by Southland Geotechnical Consultants. Geotechnical observation of footing excavations should also be performed by the geotechnical consultant to check that construction is in accordance with the recommendations of this report.



SITE LOCATION MAP

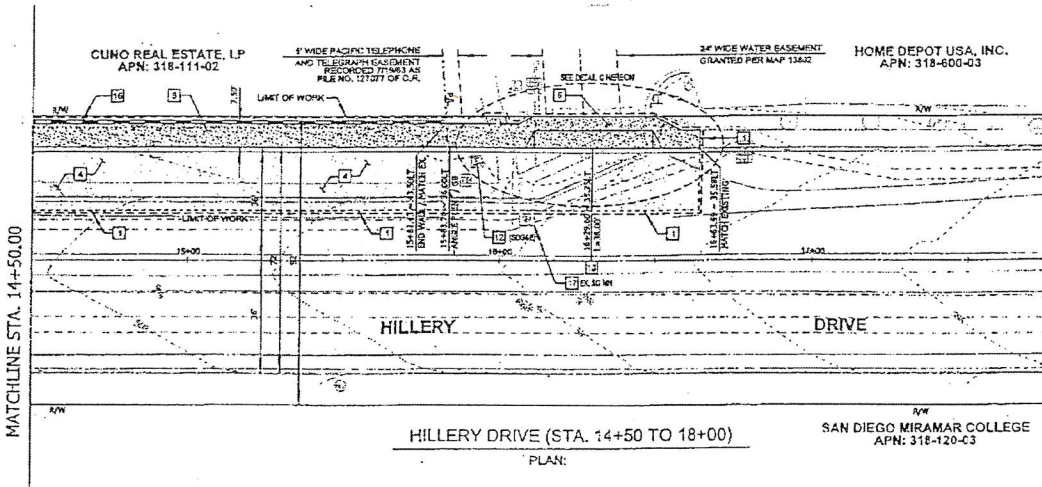
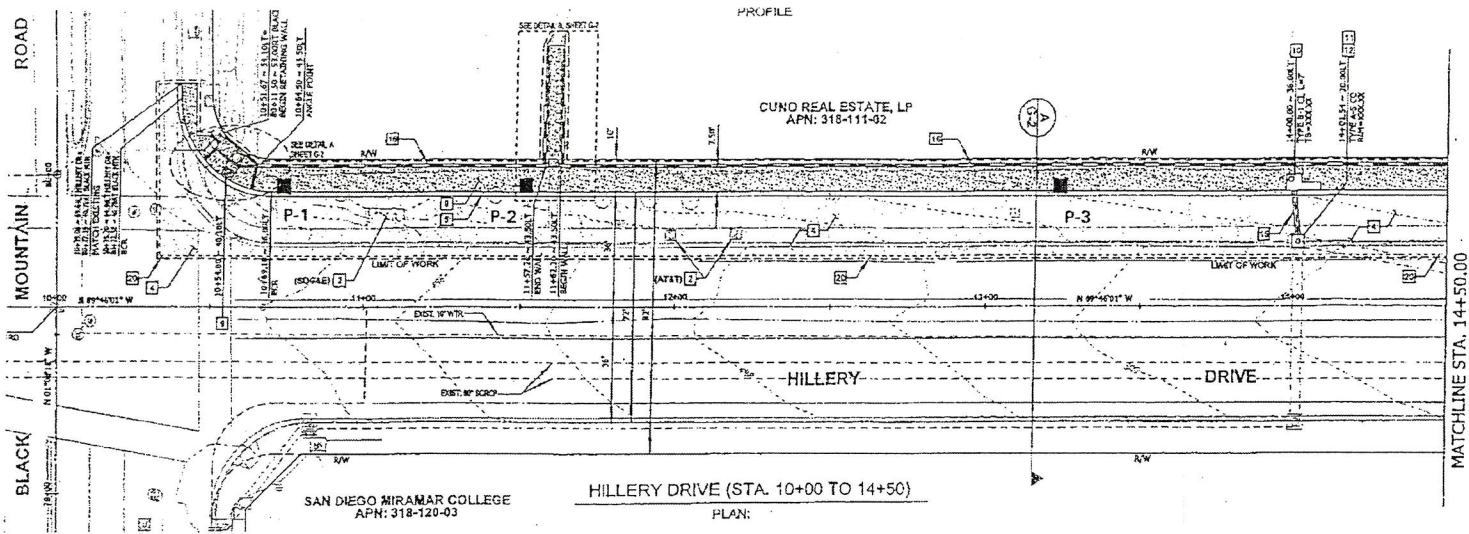
Project No. 209E41
 Hillery Drive Improvements
 Mira Mesa Area of San Diego, California

Scale (approximate): 1 inch = 800 feet

Base Map: Portions of Sheets 35 and 39,
 Geologic Hazards and Faults Map,
 City of San Diego Seismic Safety Study
 (online maps)

Hillery Drive Improvements
 Appendix I – Geotechnical Investigation
 Volume 1 of 2 (Rev. Nov. 2013)

FIGURE 1

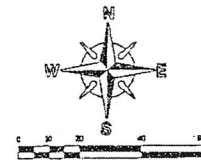


LEGEND

- Approximate location of exploratory pit
- P-3

Scale (approximate): 1 inch = 40 feet

Base Map adapted from Plans for the Construction of Hillery Drive Improvements, 60% Design (sheets C-1 and C-2), provided by GHD, Inc.



EXPLORATORY PIT LOCATION MAP

Project No. 209E41
 Hillery Drive Improvements
 Mira Mesa Area of San Diego, California

FIGURE 2

SGC

APPENDIX A

REFERENCES

- Blake, T.F., 2004a, EQFAULT, Version 3.00, Deterministic Estimation of Peak Acceleration from Digitized Faults.
- Blake, T.F., 2004b, FRISKSP, Version 4.00, Probabilistic Earthquake Hazard Analysis Using Multiple Forms of Ground-Motion-Attenuation Relationships.
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- Kennedy, M.P., and Peterson, G.L., Geology of the San Diego metropolitan area, California: California Division of Mines and Geology, Bulletin 200.
- Tan, S.S., and Giffen, D.G., 1995, Landslide hazards in the northern part of the San Diego metropolitan area, San Diego County, California: California Division of Mines and Geology, Open-file Report 95-04.

APPENDIX A
(continued)

PROJECT PLANS

Plans for the Construction of Hillery Drive Improvements, 60% Design (sheets G-1, G-2, C-1 and C-2), provided by GHD, Inc.

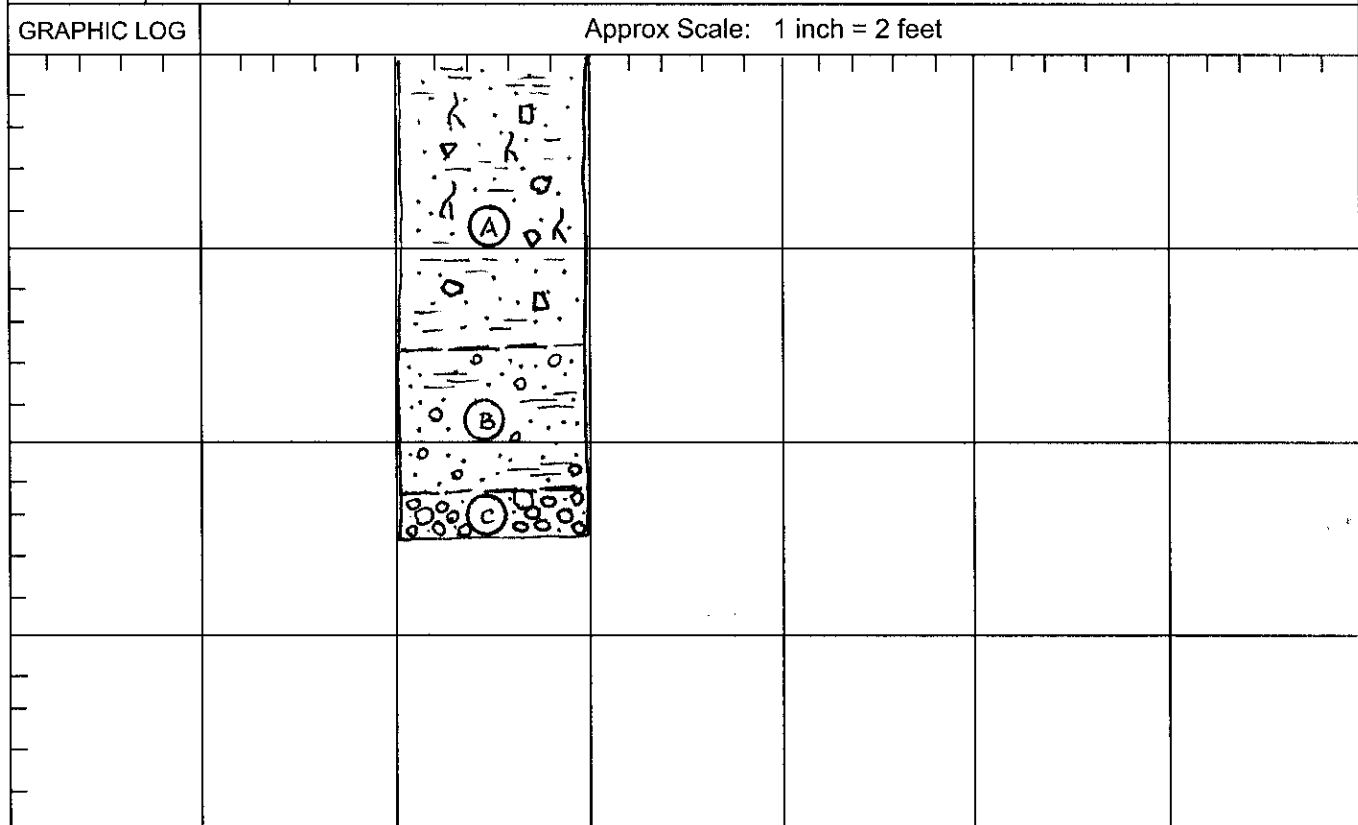
EXPLORATORY PIT LOG

Hillery Drive Improvements
 Project No. 209E41
 December 12, 2012

Retaining Wall Area - West end
 Manual Excavation
 (with jackhammer)

Pit No. P-1
 Logged by ST
 Sampled by ST

USCS Soil Type	Sample No.	Geotechnical Description
SM-SC	Bulk 1 @ 4-5'	<p>(A) <u>FILL SOILS</u> @ 0-3' - Red-brown, dry to slightly damp, medium dense to dense, silty to clayey fine sand; with roots to 2" diameter and some angular gravel/cobble</p>
SC-SM		<p>(B) <u>NATURAL SOIL</u> @ 3-4.5' - Red-brown, dry to slightly damp, dense, silty to clayey fine sand; with few rounded gravel/cobble, fairly uniform but more clayey with depth</p>
GC-GM		<p>(C) <u>LINDAVISTA FORMATION</u> @ 4.5' - TD - Gray, very dense, well-cemented ("hard") dry, gravel-cobble conglomerate; clast-supported with cemented silty to clayey fine sand matrix</p> <p>Total depth = 5 feet (effective refusal on "hard" well-cemented conglomerate) No groundwater encountered Excavated and backfilled 12 Dec 2012</p>



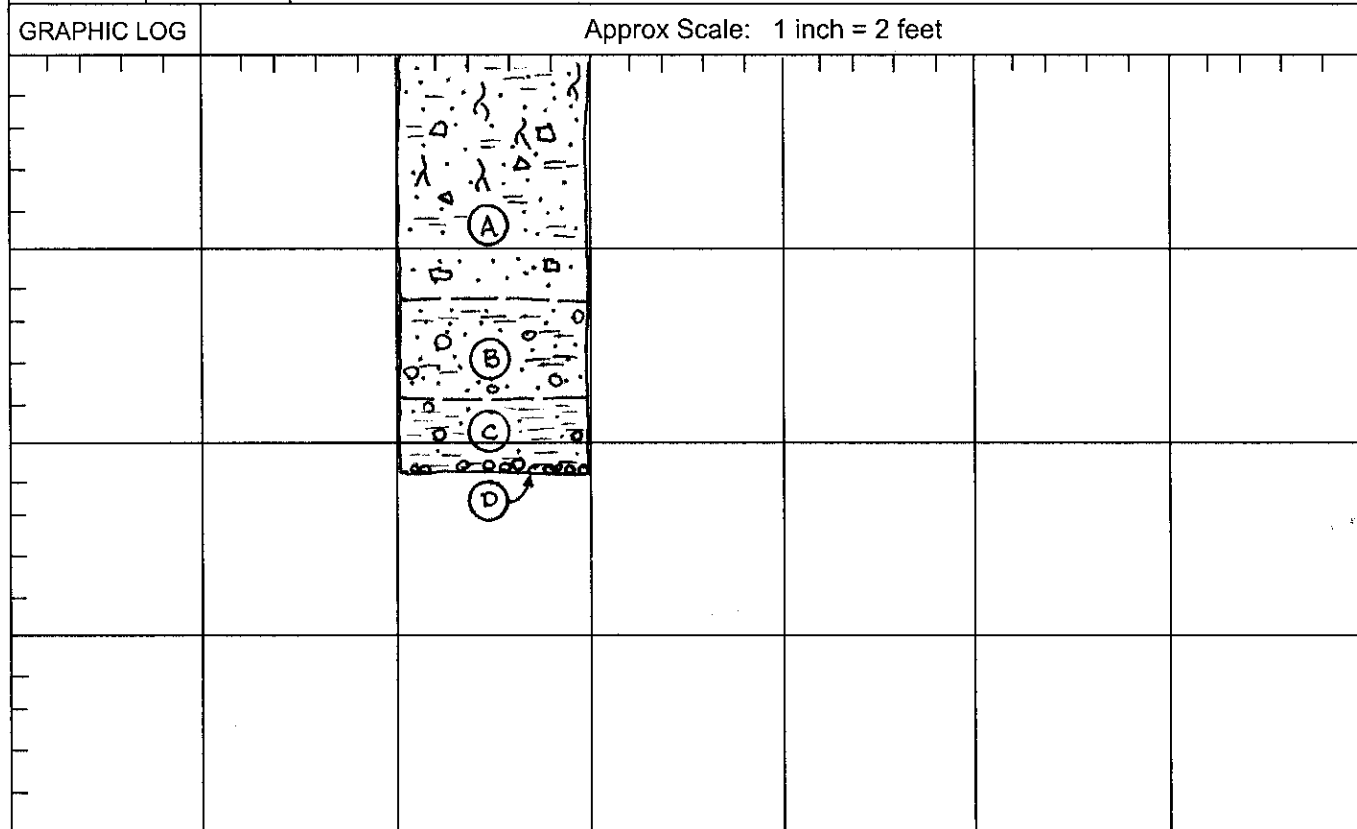
EXPLORATORY PIT LOG

Hillery Drive Improvements
 Project No. 209E41
 December 12, 2012

Retaining Wall Area
 Manual Excavation
 (with jackhammer)

Pit No. P-2
 Logged by ST
 Sampled by ST

USCS Soil Type	Sample No.	Geotechnical Description
SM-SC	Bulk 1 @3.5- 4.25'	<p>(A) FILL SOILS @ 0-2.5' - Dark red-brown, dry to slightly damp, medium dense to dense, silty to clayey fine sand; with roots and some angular gravel/cobble</p>
SC-SM		<p>(B) NATURAL SOIL @ 2.5-3.5' - Red-brown, dry to slightly damp, dense, silty to clayey fine sand; with few rounded gravel/cobble, fairly uniform but more clayey with depth</p>
CH		<p>(C) @3.5-4.25' - Gray, slighty damp, very stiff, slightly sandy clay; with rounded gravel/cobble</p>
GM-GC		<p>(D) LINDAVISTA FORMATION @ 4.25' - Gray, very dens well-cemented ("hard"), dry, gravel-cobble conglomerate; clast-supported with cemented silty to clayey fine sand matrix</p> <p>Total depth = 4.25 feet (effective refusal on "hard" well-emented conglomerate) No groundwater encountered Excavated and backfilled 12 Dec 2012</p>



EXPLORATORY PIT LOG

Hillery Drive Improvements
 Project No. 209E41
 December 12, 2012

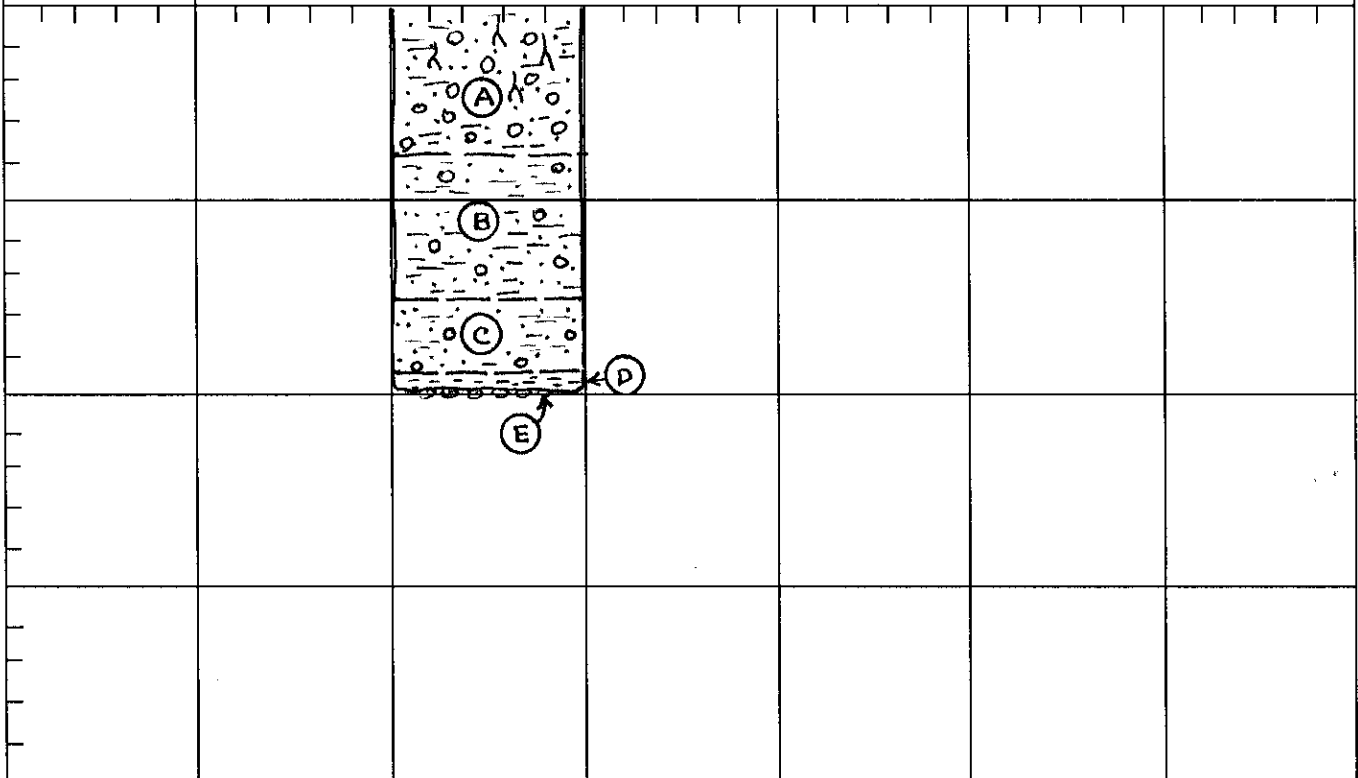
Retaining Wall Area - East pit
 Manual Excavation
 (with jackhammer)

Pit No. P-3
 Logged by ST
 Sampled by ST

USCS Soil Type	Sample No.	Geotechnical Description
SM-SC	Bulk 1 @ 1.5-3'	<p>(A) <u>FILL SOILS</u> @ 0-1.5' - Dark red-brown, dry to slightly damp, medium dense to dense, silty to clayey fine sand; with roots and abundant gravel/cobble</p>
SM-ML		<p>(B) <u>NATURAL SOIL</u> @ 1.5-3' - Dark red-brown, dry, dense to very dense, silty to slightly clayey fine sand to silt; with few rounded gravel/cobble</p>
SC		<p>(C) @ 3-3.75' - Dark red-brown, dry, very dense, clayey fine sand; with few rounded gravel/cobble</p>
CH		<p>(D) @ 3.75-4' - Dark gray, damp, very stiff, slightly sandy clay</p>
GM-GC		<p>(E) <u>LINDAVISTA FORMATION</u> @ 4' - Gray-brown, very dense, well-cemented ("hard"), dry, gravel-cobble conglomerate; clast-supported with abundant gravel/cobble and cemented matrix of silty to clayey fine sandstone</p> <p>Total depth = 4 feet (effective refusal on "hard" well-cemented conglomerate) No groundwater encountered Excavated and backfilled 12 Dec 2012</p>

GRAPHIC LOG

Approx Scale: 1 inch = 2 feet



APPENDIX C**LABORATORY TEST RESULTS****Classification**

Soils were classified using the Unified Soil Classification System (USCS) in general accordance with ASTM D 2487 and D2488. The USCS symbols for the soil types are indicated on the exploratory pit logs in Appendix B.

Maximum Dry Density/Optimum Moisture Content

The maximum dry density and optimum moisture content of a selected sample of the onsite soils were evaluated. The test was performed in general accordance with ASTM D1557. The results of the test are presented in the following table and page.

SAMPLE NUMBER	SAMPLE DESCRIPTION	MAX DRY DENSITY (pcf)	OPT MOISTURE CONTENT (%)
Pit 1 Bulk 1 @ 4-5'	Red-brown, silty to clayey fine sand (SC) (Natural Soil)	105.5	19.3

Direct Shear Test (Remolded)

A direct shear test was performed on a remolded sample of the onsite soils. The sample was remolded to 90 percent of the laboratory maximum dry density (ASTM D1557). The sample was tested using a direct shear device of the strain control type in which the rate of deformation is approximately 0.005 inch per minute. The sample is sheared under various normal loads to obtain the internal angle of friction and cohesion. Prior to shearing, the sample was saturated and drained to simulate extreme moisture conditions. The results of the test are presented in the following table and page.

SAMPLE NUMBER	SAMPLE DESCRIPTION	FRICTION ANGLE (degrees)	COHESION (psf)
Pit 1 Bulk 1 @ 4-5'	Red-brown, silty to clayey fine sand (SC) (Natural Soil)	17	361

Expansion Index

The expansion potential of a sample of the onsite soils was evaluated in general accordance with ASTM Test Method D4829. The results of the test are presented below:

SAMPLE NUMBER	SAMPLE DESCRIPTION	EXPANSION INDEX	EXPANSION POTENTIAL
Pit 2 Bulk 1 @3.5-4.25'	Gray, slightly sandy clay (CH) (Natural Soil - clay)	133	very high

Soluble Sulfate Content

The soluble sulfate contents of selected samples of the onsite soils were evaluated in general accordance with California Test Method No. 417. The results of the tests are presented below:

SAMPLE NUMBER	SAMPLE DESCRIPTION	SOLUBLE SULFATE CONTENT (%)
Pit 1 Bulk 1 @4-5'	Red-brown, silty to clayey fine sand (SC) (Natural Soil)	0.087
Pit 3 Bulk 1 @ 1.5-3'	Dark red-brown, silty to slightly clayey fine sand to sandy silt (SM-ML) (Natural Soil)	0.039

Soluble Chloride Content

The chloride contents of selected samples of the onsite soils were evaluated in general accordance with California Test Method No. 422. The results of the tests are presented below:

SAMPLE NUMBER	SAMPLE DESCRIPTION	SOLUBLE CHLORIDE CONTENT (%)
Pit 1 Bulk 1 @ 4-5'	Red-brown, silty to clayey fine sand (SC) (Natural Soil)	0.023
Pit 3 Bulk 1 @ 1.5-3'	Dark red-brown, silty to slightly clayey fine sand to sandy silt (SM-ML) (Natural Soil)	0.012

pH and Minimum Resistivity

The pH of a sample of the onsite fill soils (P-3 at 1.5-3') was evaluated and the test yielded a **pH of 5.4**.

The minimum resistivity of a selected sample of the onsite soils was performed in general accordance with California Test Method 643. The results of the tests are presented below:

SAMPLE	WATER ADDED (ml)	RESISTIVITY (ohm-cm)
Pit 3 Bulk 1 @ 1.5-3' Dark red-brown, silty to slightly clayey fine sand to sandy silt (SM-ML) (Natural Soil)	10	6500
	5	2200
	5	1400
	5	1300
	5	1200
	5	1100
	5	1100
	5	1300
	5	1400

California Department of Transportation, Division of Construction,
Method for Estimating the Service Life of Steel Culverts, 1999.

9 years to perforation for a 16 gauge metal culvert
11 years to perforation for a 14 gauge metal culvert
16 years to perforation for a 12 gauge metal culvert
20 years to perforation for a 10 gauge metal culvert
24 years to perforation for a 8 gauge metal culvert

Laboratory R-Value Test

Laboratory R-value (resistance value) testing was performed on a representative sample of the soils encountered in the exploratory pits. The test was performed in general accordance with California Test Method No. 301. The result of the R-value test is presented in the following table and page.

SAMPLE	SAMPLE DESCRIPTION	R-VALUE TEST RESULT
Pit 1 Bulk 1 @ 4-5'	Red-brown, silty to clayey fine sand (SC) (Natural Soil)	less than 5



Southern
California Soil &
Testing

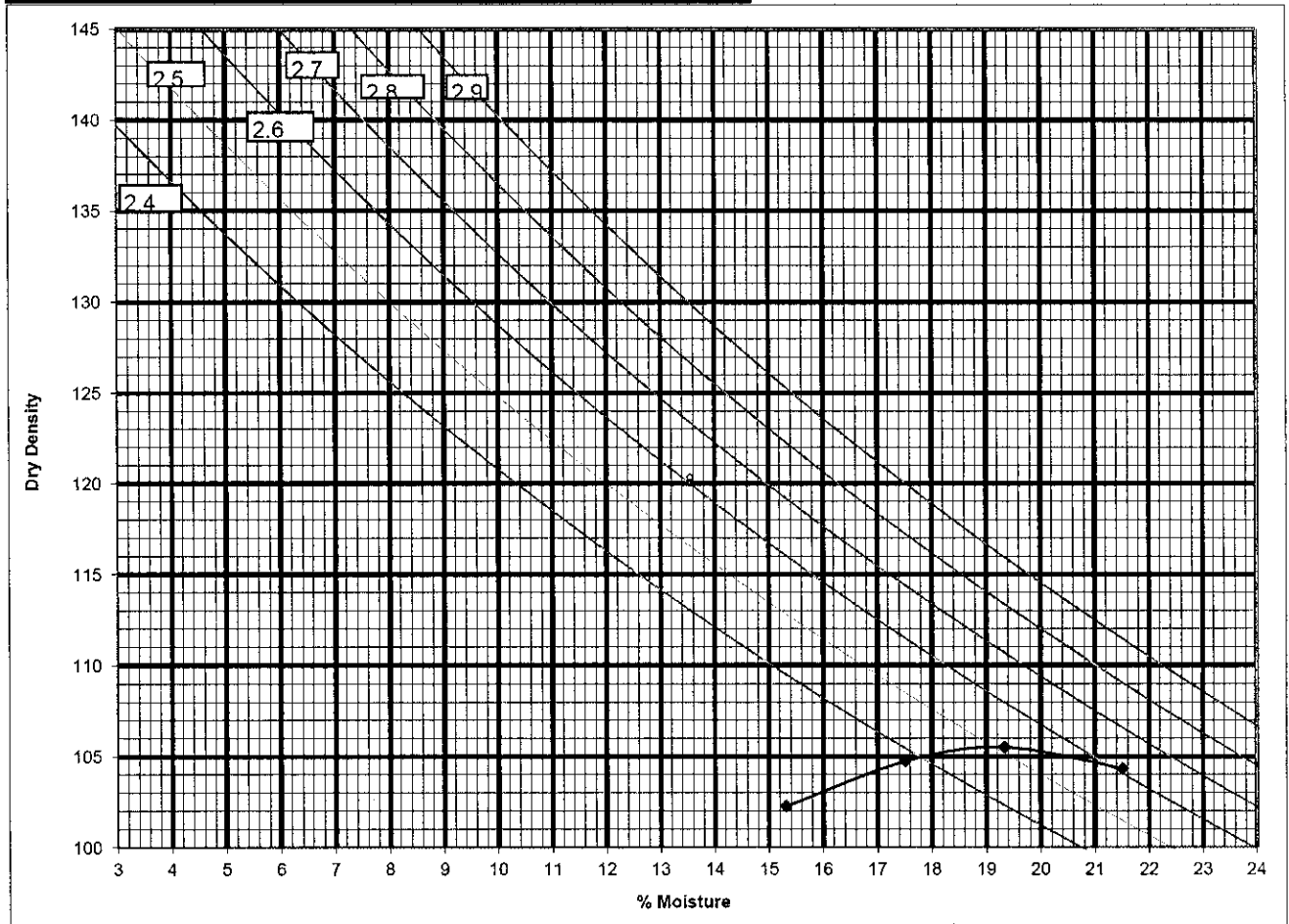
Maximum Density & Optimum Moisture

Project Name:	Southland #209E41	Job Number:	1212018
SOIL DESCRIPTION	Red Clay w/ Sand		
Sample Number:	Pit 1 Bag 1	+4% 7-8%	Date: 12/18/12

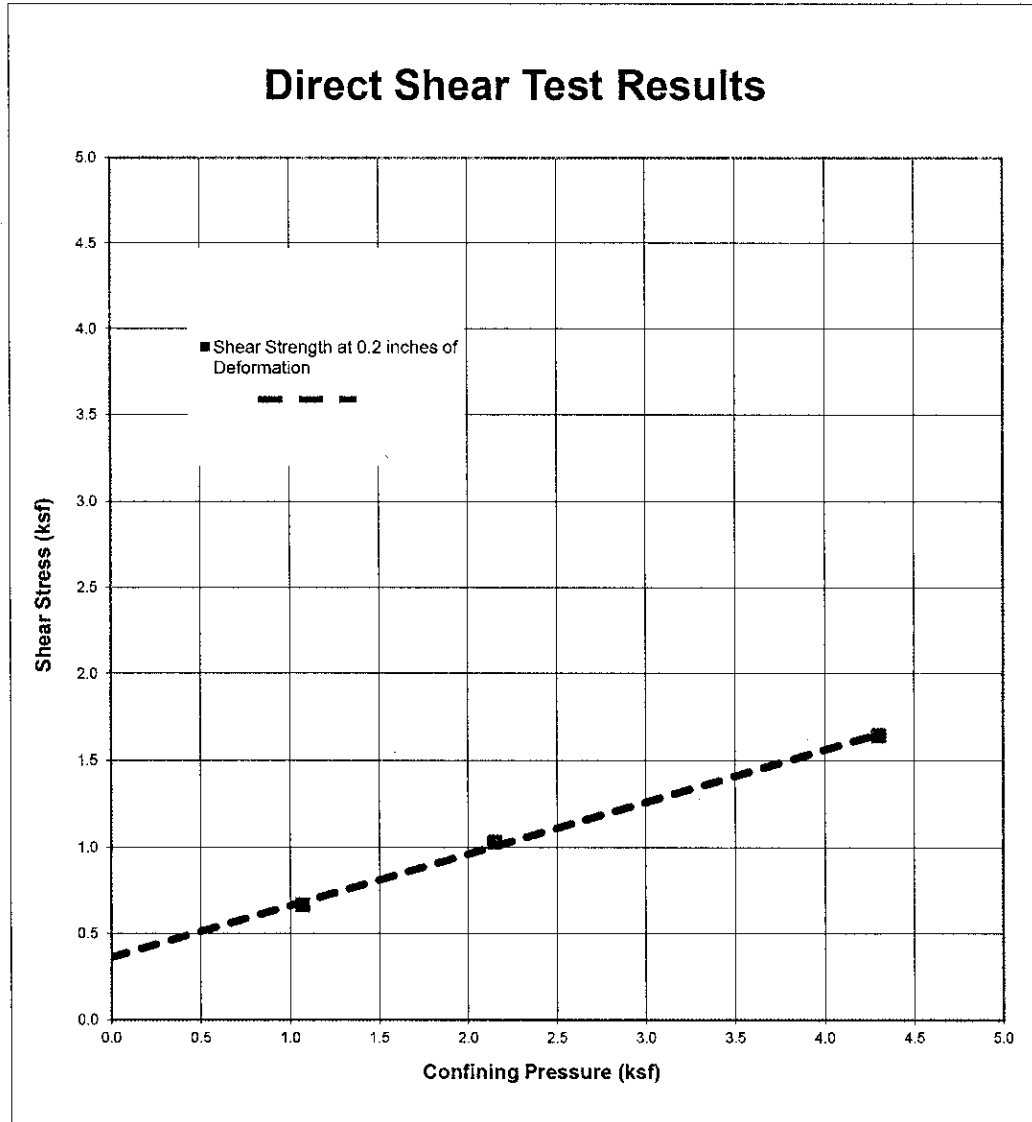
POINT % added	0	2	4	6
SOIL & MOLD	3785	3863	3906	3919
MOLD	2001	2001	2001	2001
SOIL	1784	1862	1905	1918
WET DENS.	117.9	123.1	125.9	126.8
WET SOIL	500.0	500.0	500.0	500.0
DRY SOIL	333.3	425.5	419.0	414.5
%MOISTURE	15.3	17.5	19.3	21.5
DRY DENS.	102.3	104.7	105.5	104.3


SCALP	#4
C.F. MOLD	1/30 cu.ft.
LAYERS	5
HAMMER	10 lb.
DROP	18"
BLOWS/LAYER	25
SETUP BY	CB
TESTED BY	CB

	WT. RETAINED	%RETAINED	ASTM D1557	A
+3/4"			MAXIMUM DENSITY	105.5
+3/8"			OPTIMUM M.C.	19.3
+ #4				
TOTAL				



Direct Shear Test Results



SAMPLE	DESCRIPTION	INTERNAL FRICTION ANGLE(DEG.)	COHESION INTERCEPT (PSF)
Pit 1 Bag 1	Red F-M Sandy Clay (Remold to 90%)	17	361
<i>Shear Strength at 0.2 inches of Deformation</i>			
 SOUTHERN CALIFORNIA SOIL & TESTING		Southland #209E41	
		By: CA	Date: 12/27/2012
		Job Number: 1212018	



SOUTHERN CALIFORNIA SOIL AND TESTING, INC.
 6280 RIVERDALE STREET, P. O. BOX 600627, SAN DIEGO, CA 92160 (619) 280-4321

CAL-TEST 301
 ASTM D 2844

Job Name: Southland #209E41 Job No.: 1212018
 Date: 12/20/12 Street: n/a
 Sample #: Pit 1 Bag 1 Station: n/a
 Source: n/a By: DRB
 Description: Reddish Brown Sandy Clay

Test Specimen		A	B	C	D
Date Tested		12/20/2012	12/20/2012	12/20/2012	
Compactor Air Pressure	PSI	155	70	35	
Initial Moisture	%	7.2	7.2	7.2	
Soil Wt. Added	GRAMS	1020	920	870	
Water Added	ML	120	140	160	
Water Added	%	12.6	16.3	19.7	
Moisture At Compaction	%	19.8	23.5	26.9	
Weight of Briquette & Tare	GRAMS	3188	3091	3059	
Net Weight of Briquette	GRAMS	1128	1046	1000	
Briquette Height	IN	2.63	2.59	2.55	
Density	PCF	108.5	99.1	93.6	
Exudation Pressure	PSI	700	440	345	
Expansion Pressure	PSF	0	0	0	
PH at 1000 Pounds	PSI				
PH at 2000 Pounds	PSI				
Displacement	Turns				
R' Value					
Stabilometer Thickness	FT				
Expansion Thickness	FT				
Expansion Dial Reading					
R' Value Modifier					
Corrected R-Value					
R-Value by Exudation Pressure					
Gravel Equivalent					
Traffic Index					
R-Value by Expansion Pressure					
R-Value at Equivalent		Less Than 5			

<i>Grain Size Distribution</i>						
	As Received			As Tested		
	Minus #4 Sample			Plus #4 Sample		
		% Ret.	% Pass	Wt. Ret.	% Ret	% Pass
Total Equals						
Total + #4						
Total - #4						
Sieve						
1						
3/4						
1/2						
3/8						
#4						

APPENDIX D

```
*****  
*  
*   E Q F A U L T   *  
*  
*   Version 3.00   *  
*  
*****
```

DETERMINISTIC ESTIMATION OF PEAK ACCELERATION FROM DIGITIZED FAULTS

JOB NUMBER: 209E41

DATE: 01-03-2013

JOB NAME: Hillery Drive Retaining Wall, SD, CA

CALCULATION NAME: MCE Analysis

FAULT-DATA-FILE NAME: C:\Program Files\EQFAULT1\CGSFLTE_MCE_new.DAT

SITE COORDINATES:

SITE LATITUDE: 32.9130
SITE LONGITUDE: 117.1232

SEARCH RADIUS: 100 mi

ATTENUATION RELATION: 3) Boore et al. (1997) Horiz. - NEHRP D (250)

UNCERTAINTY (M=Median, S=Sigma): M Number of Sigmas: 0.0

DISTANCE MEASURE: cd_2drp

SCOND: 0

Basement Depth: 5.00 km Campbell SSR: Campbell SHR:

COMPUTE PEAK HORIZONTAL ACCELERATION

FAULT-DATA FILE USED: C:\Program Files\EQFAULT1\CGSFLTE_MCE_new.DAT

MINIMUM DEPTH VALUE (km): 0.0

EQFAULT SUMMARY

DETERMINISTIC SITE PARAMETERS

Page 1

ABBREVIATED FAULT NAME	APPROXIMATE		ESTIMATED MAX. EARTHQUAKE EVENT		
	DISTANCE		MAXIMUM	PEAK	EST. SITE
	mi	(km)	EARTHQUAKE	SITE	INTENSITY
			MAG. (Mw)	ACCEL. g	MOD.MERC.
ROSE CANYON	8.7	(14.0)	7.2	0.316	IX
CORONADO BANK	21.4	(34.4)	7.6	0.203	VIII
NEWPORT-INGLEWOOD (Offshore)	24.4	(39.3)	7.1	0.141	VIII
ELSINORE (JULIAN)	29.5	(47.4)	7.1	0.122	VII
ELSINORE (TEMECULA)	32.7	(52.6)	6.8	0.096	VII
EARTHQUAKE VALLEY	36.5	(58.7)	6.5	0.076	VII
ELSINORE (COYOTE MOUNTAIN)	44.3	(71.3)	6.8	0.076	VII
SAN JACINTO-ANZA	51.7	(83.2)	7.2	0.083	VII
SAN JACINTO-COYOTE CREEK	51.8	(83.4)	6.6	0.061	VI
ELSINORE (GLEN IVY)	52.1	(83.8)	6.8	0.067	VI
PALOS VERDES	53.8	(86.6)	7.3	0.085	VII
SAN JOAQUIN HILLS	55.9	(89.9)	6.6	0.070	VI
SAN JACINTO - BORREGO	57.4	(92.4)	6.6	0.056	VI
SAN JACINTO-SAN JACINTO VALLEY	58.4	(94.0)	6.9	0.065	VI
NEWPORT-INGLEWOOD (L.A.Basin)	66.7	(107.4)	7.1	0.065	VI
CHINO-CENTRAL AVE. (Elsinore)	67.4	(108.4)	6.7	0.064	VI
SUPERSTITION MTN. (San Jacinto)	69.9	(112.5)	6.6	0.048	VI
WHITTIER	71.5	(115.1)	6.8	0.053	VI
LAGUNA SALADA	73.1	(117.7)	7.0	0.057	VI
ELMORE RANCH	74.1	(119.2)	6.6	0.046	VI
SUPERSTITION HILLS (San Jacinto)	74.9	(120.5)	6.6	0.046	VI
SAN JACINTO-SAN BERNARDINO	76.6	(123.2)	6.7	0.047	VI
SAN ANDREAS - Whole M-1a	77.0	(123.9)	8.0	0.093	VII
SAN ANDREAS - SB-Coach. M-1b-2	77.0	(123.9)	7.7	0.080	VII
SAN ANDREAS - SB-Coach. M-2b	77.0	(123.9)	7.7	0.080	VII
SAN ANDREAS - San Bernardino M-1	77.0	(123.9)	7.5	0.072	VI
SAN ANDREAS - Coachella M-1c-5	78.8	(126.8)	7.2	0.060	VI
PINTO MOUNTAIN	82.3	(132.4)	7.2	0.058	VI
PUENTE HILLS BLIND THRUST	82.3	(132.4)	7.1	0.067	VI
BURNT MTN.	82.4	(132.6)	6.5	0.040	V
EUREKA PEAK	85.4	(137.4)	6.4	0.037	V
BRAWLEY SEISMIC ZONE	87.4	(140.7)	6.4	0.036	V
SAN JOSE	88.3	(142.1)	6.4	0.044	VI
CUCAMONGA	89.0	(143.3)	6.9	0.057	VI
IMPERIAL	90.3	(145.3)	7.0	0.049	VI
NORTH FRONTAL FAULT ZONE (West)	90.7	(146.0)	7.2	0.066	VI
SIERRA MADRE	91.0	(146.4)	7.2	0.065	VI
NORTH FRONTAL FAULT ZONE (East)	92.1	(148.3)	6.7	0.050	VI
CLEGHORN	94.4	(151.9)	6.5	0.036	V
LANDERS	95.2	(153.2)	7.3	0.055	VI

 DETERMINISTIC SITE PARAMETERS

Page 2

ABBREVIATED FAULT NAME	APPROXIMATE DISTANCE mi (km)	ESTIMATED MAX. EARTHQUAKE EVENT		
		MAXIMUM EARTHQUAKE MAG. (Mw)	PEAK SITE ACCEL. g	EST. SITE INTENSITY MOD.MERC.
SAN ANDREAS - Cho-Moj M-1b-1	97.6 (157.0)	7.8	0.070	VI
SAN ANDREAS - 1857 Rupture M-2a	97.6 (157.0)	7.8	0.070	VI
SAN ANDREAS - Mojave M-1c-3	97.6 (157.0)	7.4	0.057	VI
UPPER ELYSIAN PARK BLIND THRUST	97.9 (157.5)	6.4	0.041	V
RAYMOND	99.9 (160.8)	6.5	0.042	VI

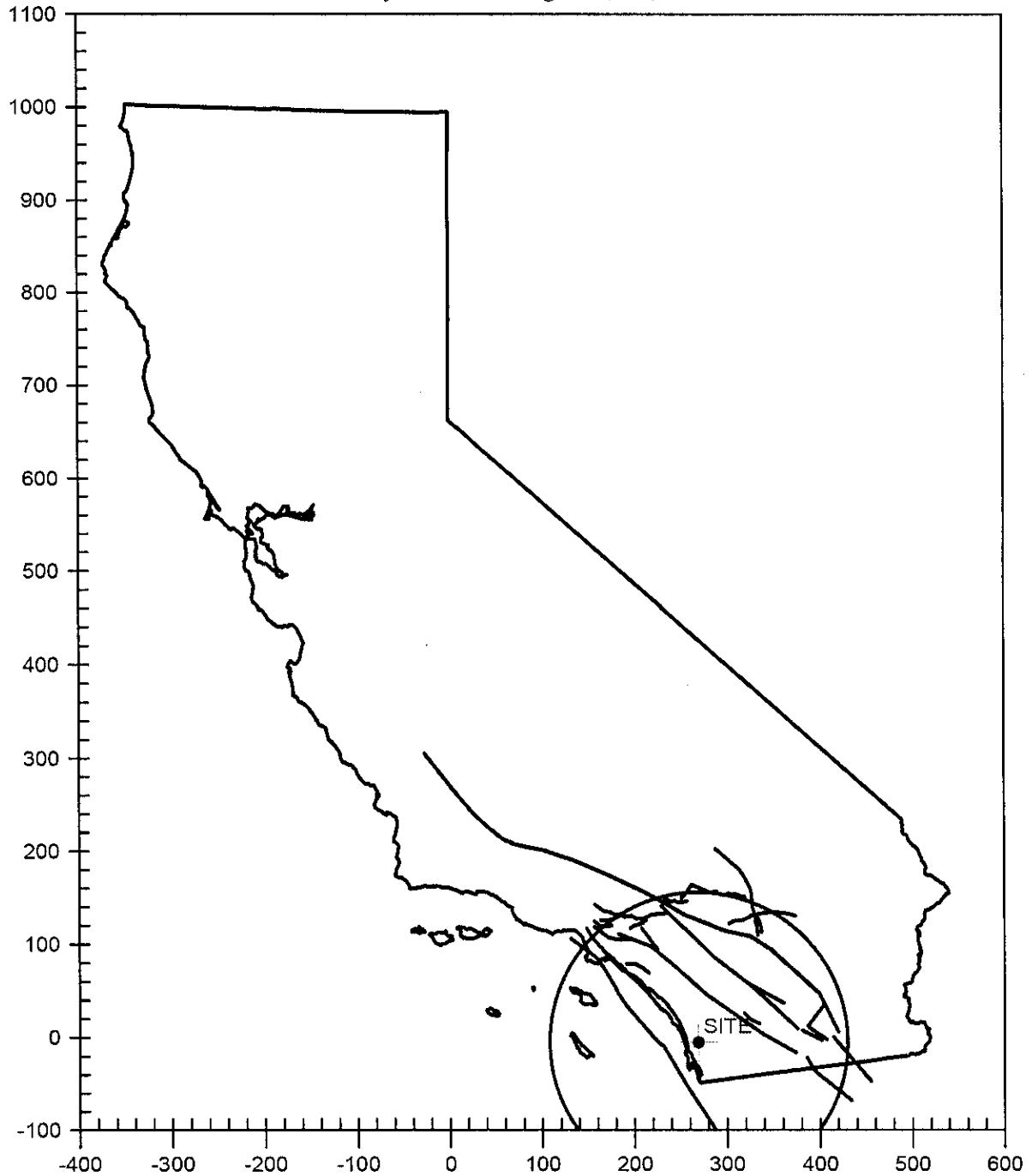
 -END OF SEARCH- 45 FAULTS FOUND WITHIN THE SPECIFIED SEARCH RADIUS.

THE ROSE CANYON FAULT IS CLOSEST TO THE SITE.
 IT IS ABOUT 8.7 MILES (14.0 km) AWAY.

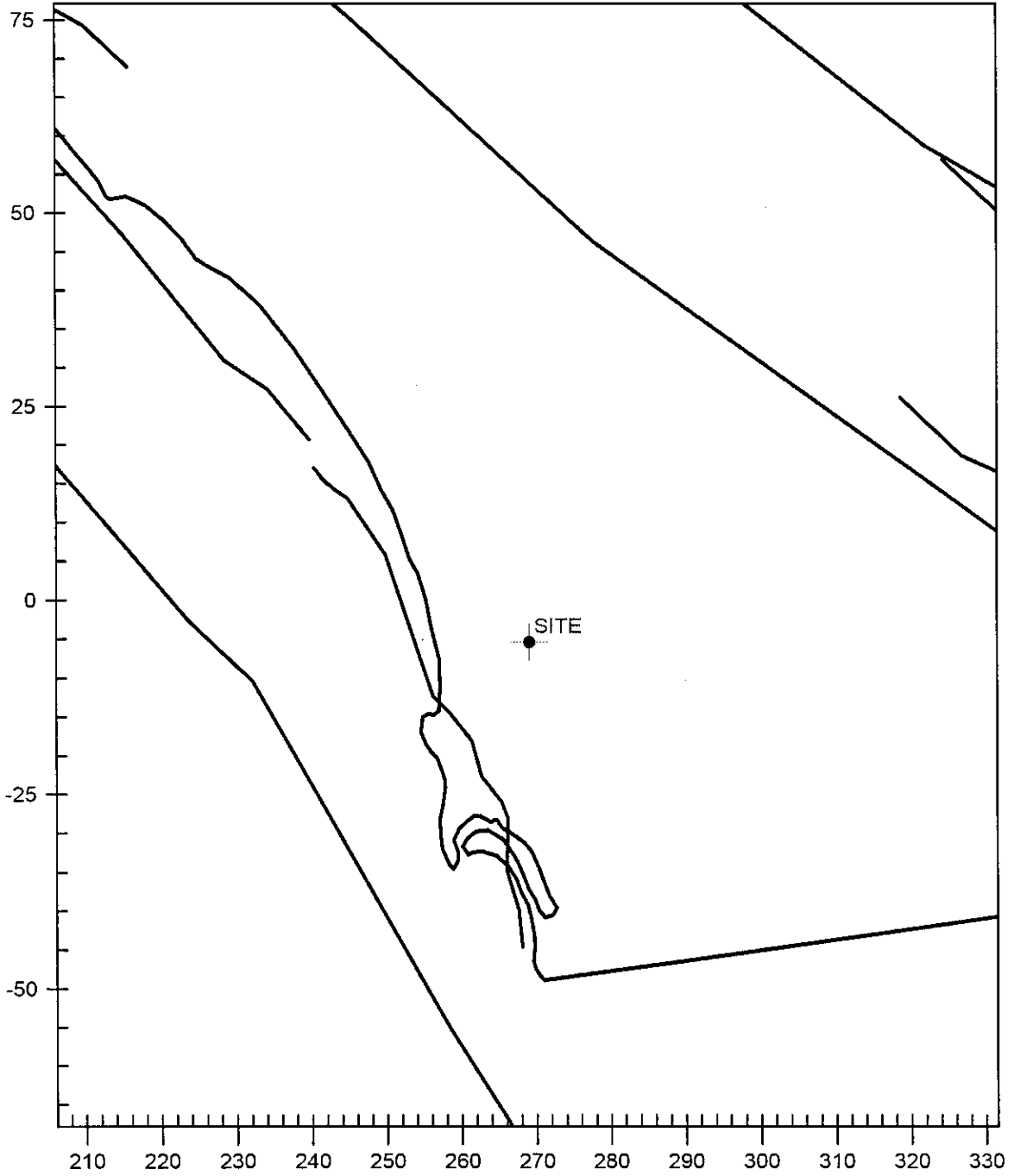
LARGEST MAXIMUM-EARTHQUAKE SITE ACCELERATION: 0.3158 g

CALIFORNIA FAULT MAP

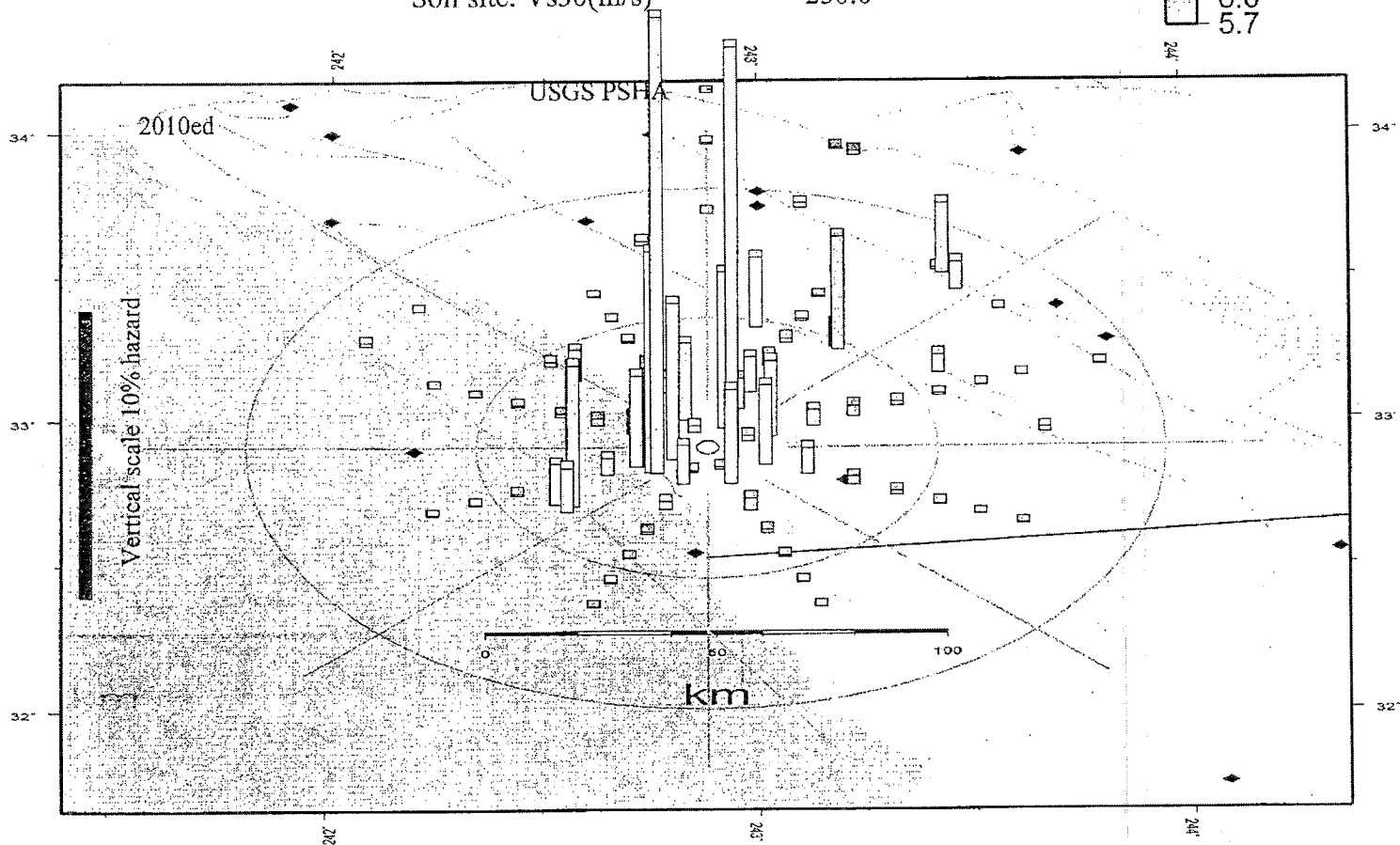
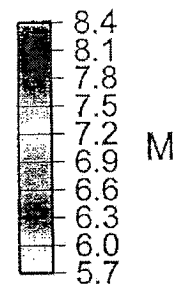
Hillery Drive Retaining Wall, SD, CA



CALIFORNIA FAULT MAP
Hillery Drive Retaining Wall, SD, CA



Hillery_Drive Geographic Deagg. Seismic Hazard
 for 0.00-s Spectral Accel, 0.4202 g
 PGA Exceedance Return Time: 2475 year
 Max. significant source distance 138. km.
 View angle is 35 degrees above horizon
 Gridded-source hazard accum. in 45° intervals
 Soil site. Vs30(m/s) = 250.0



2013 Jan 3 23:52:13 Site Coords:-117.123 32.9130 (yellow disk) Vs30= 250.0. Max annual ExcdRate .6607E-04 (column height prop. to ExRate). Red diamonds: historical earthquakes, M>6

PSH Deaggregation on NEHRP D soil
 Hillery Drive 117.123° W, 32.913 N.

Peak Horiz. Ground Accel. ≥ 0.4203 g

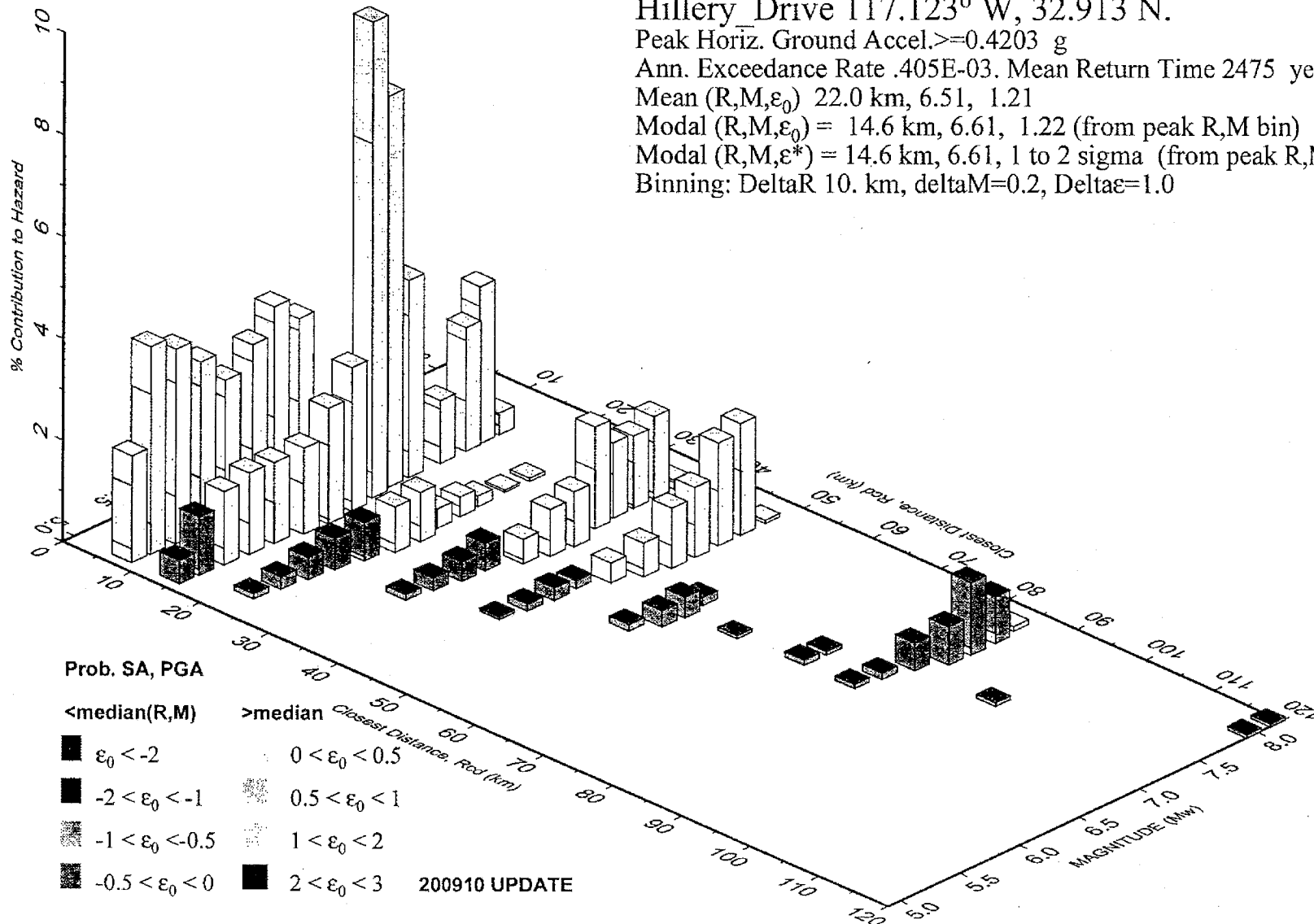
Ann. Exceedance Rate .405E-03. Mean Return Time 2475 years

Mean (R,M, ϵ_0) 22.0 km, 6.51, 1.21

Modal (R,M, ϵ_0) = 14.6 km, 6.61, 1.22 (from peak R,M bin)

Modal (R,M, ϵ^*) = 14.6 km, 6.61, 1 to 2 sigma (from peak R,M, ϵ bin)

Binning: DeltaR 10. km, deltaM=0.2, Delta ϵ =1.0



GMT 2013 Jan 3 23:52:13

Distance (R), magnitude (M), epsilon (ϵ_0) deaggregation for a site on soil with average vs \approx 250. m/s top 30 m. USGS CGHT PSHA2008 UPDATE Bins with lt 0.05% contrib. omitted

Hillery_Drive Geographic Deagg. Seismic Hazard
for 0.00-s Spectral Accel, 0.4202 g

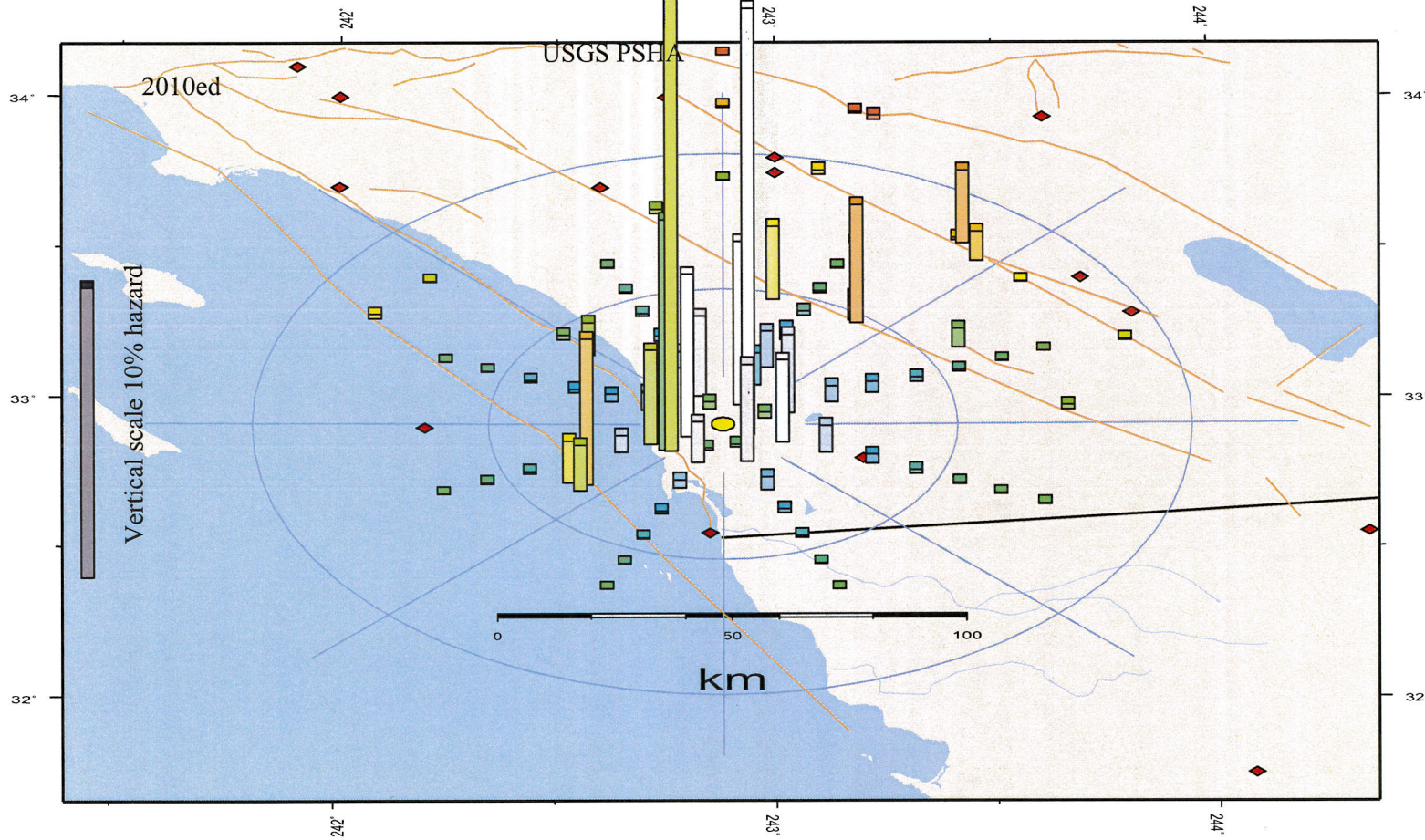
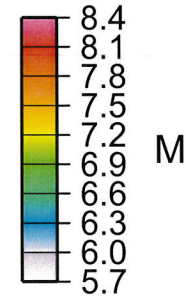
PGA Exceedance Return Time: 2475 year

Max. significant source distance 138. km.

View angle is 35 degrees above horizon

Gridded-source hazard accum. in 45° intervals

Soil site. Vs30(m/s) = 250.0



GMT 2013 Jan 3 23:52:13 Site Coords:-117.123 32.9130 (yellow disk) Vs30= 250.0. Max annual ExcdRate .6607E-04 (column height prop. to ExRate). Red diamonds: historical earthquakes, M>6

PSH Deaggregation on NEHRP D soil

Hillery Drive 117.123° W, 32.913 N.

Peak Horiz. Ground Accel. ≥ 0.4203 g

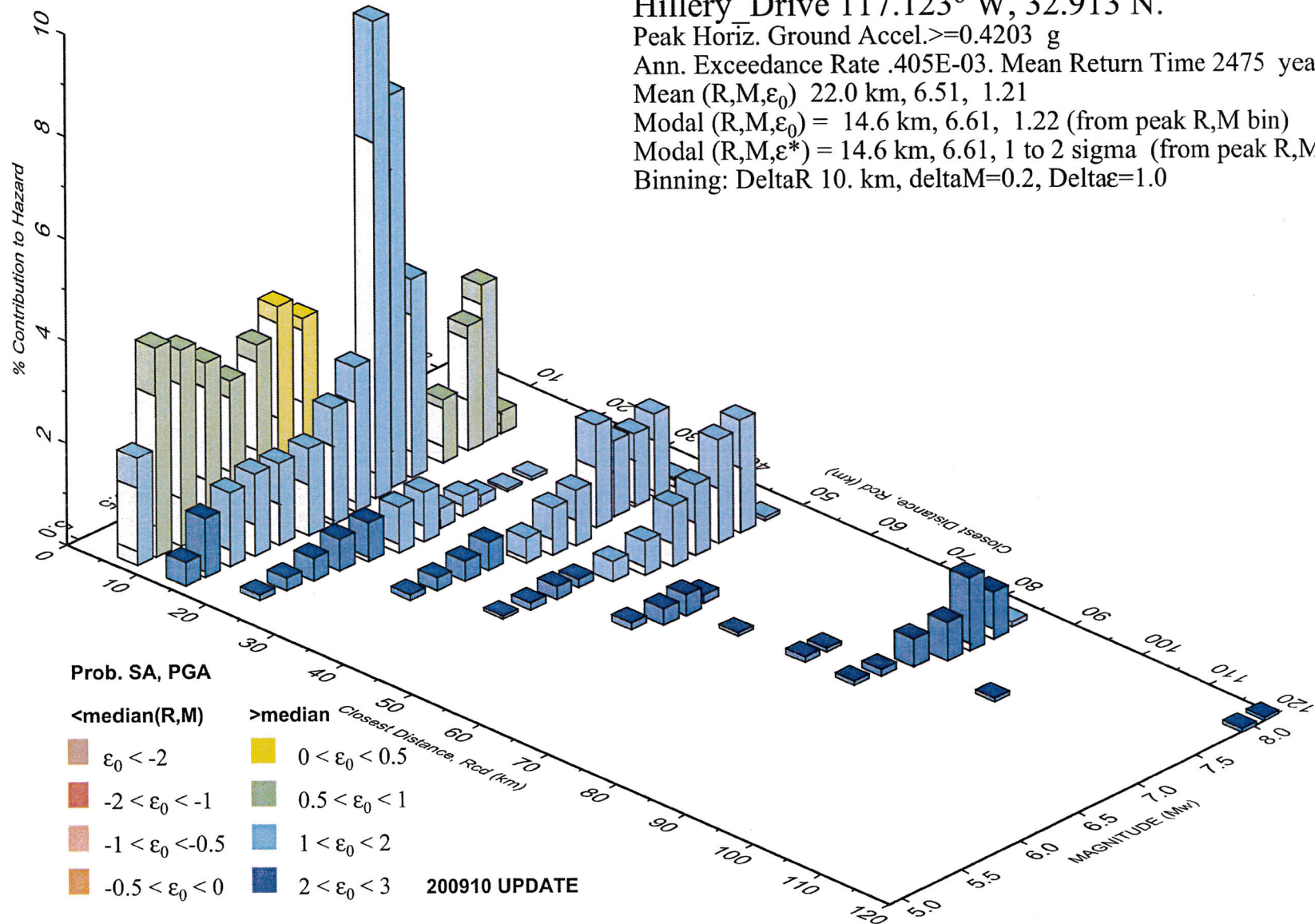
Ann. Exceedance Rate .405E-03. Mean Return Time 2475 years

Mean (R,M, ϵ_0) 22.0 km, 6.51, 1.21

Modal (R,M, ϵ_0) = 14.6 km, 6.61, 1.22 (from peak R,M bin)

Modal (R,M, ϵ^*) = 14.6 km, 6.61, 1 to 2 sigma (from peak R,M, ϵ bin)

Binning: DeltaR 10. km, deltaM=0.2, Delta ϵ =1.0



GMT 2013 Jan 3 23:52:13 Distance (R), magnitude (M), epsilon (E0,E) deaggregation for a site on soil with average vs= 250. m/s top 30 m. USGS CGHT PSHA2008 UPDATE Bins with lt 0.05% contrib. omitted

APPENDIX E

RECOMMENDED EARTHWORK SPECIFICATIONS

1.0 General Intent

These specifications are presented as general procedures and recommendations for grading and earthwork to be used in conjunction with the approved grading plans. These general earthwork specifications are considered a part of the recommendations contained in the geotechnical report and are superseded by recommendations in the geotechnical report in the case of conflict. Evaluations performed by the consultant during the course of grading may result in new recommendations which could supersede these specifications or the recommendations of the geotechnical report. It shall be the responsibility of the contractor to read and understand these specifications, as well as the geotechnical report and approved grading plans.

2.0 Earthwork Observation and Testing

Prior to grading, a qualified geotechnical consultant should be employed for the purpose of observing earthwork procedures and testing fill placement for conformance with the recommendations of the geotechnical report and these specifications. It shall be the responsibility of the contractor to keep the geotechnical consultant apprised of work schedules and changes, at least 24 hours in advance, so that he may schedule his personnel accordingly. No grading operations shall be performed without the knowledge of the geotechnical consultant. The contractor shall not assume that the geotechnical consultant is aware of all site grading operations.

It shall be the sole responsibility of the contractor to provide adequate equipment and methods to accomplish the work in accordance with applicable grading codes and agency ordinances, recommendations of the geotechnical report, and the approved grading plans. If, in the opinion of the geotechnical consultant, unsatisfactory conditions, such as unsuitable soil, poor moisture condition, inadequate compaction, adverse weather, etc., are resulting in a quality of work less than recommended in the geotechnical report and the specifications, the consultant will be empowered to reject the work and recommend that construction be stopped until the conditions are rectified.

3.0 Preparation of Areas to be Filled

3.1 Clearing and Grubbing: Sufficient brush, vegetation, roots, and all other deleterious material should be removed or properly disposed of in a method acceptable to the owner, design engineer, governing agencies and the geotechnical consultant.

The geotechnical consultant should evaluate the extent of these removals depending on specific site conditions. In general, no more than one percent (by volume) of the fill material should consist of these materials. In addition, nesting of these materials should not be allowed.

- 3.2 Processing: The existing ground which has been evaluated by the geotechnical consultant to be satisfactory for support of fill, should be scarified to a minimum depth of 6 inches. Existing ground which is not satisfactory should be overexcavated as specified in the following section. Scarification should continue until the soils are broken down and free of large clay lumps or clods and until the working surface is reasonably uniform, flat, and free of features which would inhibit uniform compaction.
- 3.3 Overexcavation: Soft, dry, organic-rich, spongy, highly fractured, or otherwise unsuitable ground, extending to such a depth that surface processing cannot adequately improve the condition, should be overexcavated down to competent ground, as evaluated by the geotechnical consultant. For purposes of determining pay quantities of materials overexcavated, the services of a licensed land surveyor or civil engineer should be used.
- 3.4 Moisture Conditioning: Overexcavated and processed soils should be watered, dried, or blended as necessary to attain a uniform near-optimum moisture content as determined by test method ASTM D1557.
- 3.5 Recompaction: Overexcavated and processed soils which have been properly mixed, screened of deleterious material, and moisture-conditioned should be recompacted to a minimum relative compaction of 90 percent as determined by test method ASTM D1557.
- 3.6 Benching: Where fills are placed on ground sloping steeper than 5:1 (horizontal to vertical), the ground should be stepped or benched. The lowest bench should be a minimum of 15 feet wide, excavated at least 2 feet into competent material as evaluated by the geotechnical consultant. Ground sloping flatter than 5:1 should be benched or otherwise overexcavated when recommended by the geotechnical consultant.
- 3.7 Evaluation of Fill Areas: All areas to receive fill, including processed areas, areas of removal, and fill benches should be evaluated by the geotechnical consultant prior to fill placement.

4.0 Fill Material

- 4.1 General: Material to be placed as fill should be sufficiently free of organic matter and other deleterious substances, and should be evaluated by the geotechnical consultant prior to placement. Soils of poor gradation, expansion, or strength characteristics should be placed as recommended by the geotechnical consultant.
- 4.2 Oversize Material: Oversize fill material, defined as material with a maximum dimension greater than 6 inches should not be buried or placed in fills unless the location, materials, and methods are specifically recommended by the geotechnical consultant.
- 4.3 Import: If grading operations include importing of fill material, the import material should meet the requirements of Section 4.1. Sufficient time should be given to allow the geotechnical consultant to test and evaluate proposed import as necessary, prior to importing to the site.

5.0 Fill Placement and Compaction

- 5.1 Fill Lifts: Fill material should be placed in areas properly prepared and evaluated as acceptable to receive fill. Fill should be placed in near-horizontal layers approximately 6 inches in compacted thickness. Each layer should be spread evenly and thoroughly mixed to attain uniformity of material and moisture content throughout.
- 5.2 Moisture Conditioning: Fill soils should be watered, dried or blended as necessary to attain a uniform near-optimum moisture content as determined by test method ASTM D1557.
- 5.3 Compaction of Fill: After each layer has been evenly spread, moisture conditioned, and mixed, it should be uniformly compacted to not less than 90 percent of maximum dry density as determined by test method ASTM D1557. Compaction equipment should be adequately sized and be either specifically designed for soil compaction or of proven reliability to efficiently achieve the specified degree and uniformity of compaction.
- 5.4 Fill Slopes: Compaction of slopes should be accomplished, in addition to normal compaction procedures, by backrolling slopes with sheepfoot rollers at increments of 3 to 4 feet in fill elevation gain, or by other methods producing satisfactory results. At the completion of grading, the relative compaction of the fill, including the embankment face should be at least 90 percent as determined by test method ASTM D1557.

5.5 Compaction Testing: Field tests of the moisture content and degree of compaction of the fill soils should be performed by the geotechnical consultant. The location and frequency of tests should be at the consultant's discretion based on observations of the field conditions. In general, the tests should be taken at approximate intervals of 2 feet in elevation gain and/or each 1,000 cubic yards of fill placed. In addition, on slope faces, as a guideline, one test should be taken for each 5,000 square feet of slope face and/or each 10-foot interval of vertical slope height.

6.0 Subdrain Construction

Subdrain systems, if recommended, should be constructed in areas evaluated for suitability by the geotechnical consultant. The subdrain system should be constructed to the approximate alignment in accordance with the details shown on the approved plans or provided herein. The subdrain location or materials should not be modified unless recommended by the geotechnical consultant. The consultant may recommend modifications to the subdrain system depending on conditions encountered. Completed subdrains should be surveyed for line and grade by a licensed land surveyor or civil engineer.

7.0 Excavations

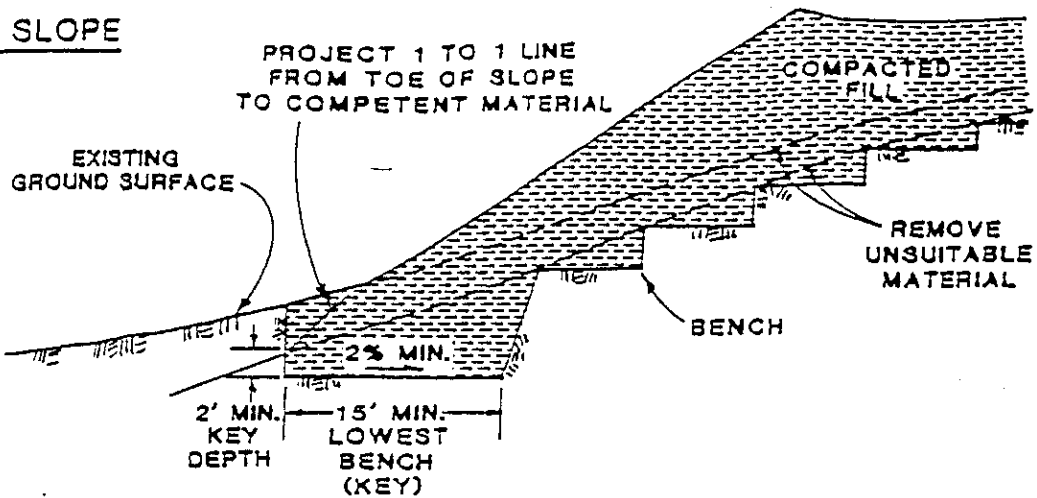
Excavations and cut slopes should be evaluated by the geotechnical consultant during grading. If directed by the geotechnical consultant, further excavation, overexcavation, and/or remedial grading of cut slopes (i.e., stability fills or slope buttresses) may be recommended.

8.0 Quantity Determination

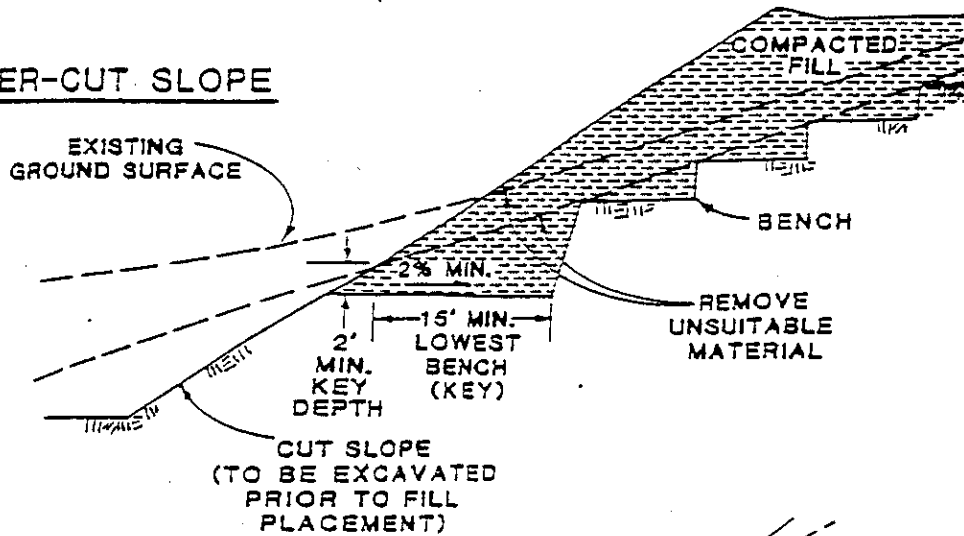
The services of a licensed land surveyor or civil engineer should be retained to determine quantities of materials excavated during grading and/or the limits of overexcavation.

KEY AND BENCHING DETAILS

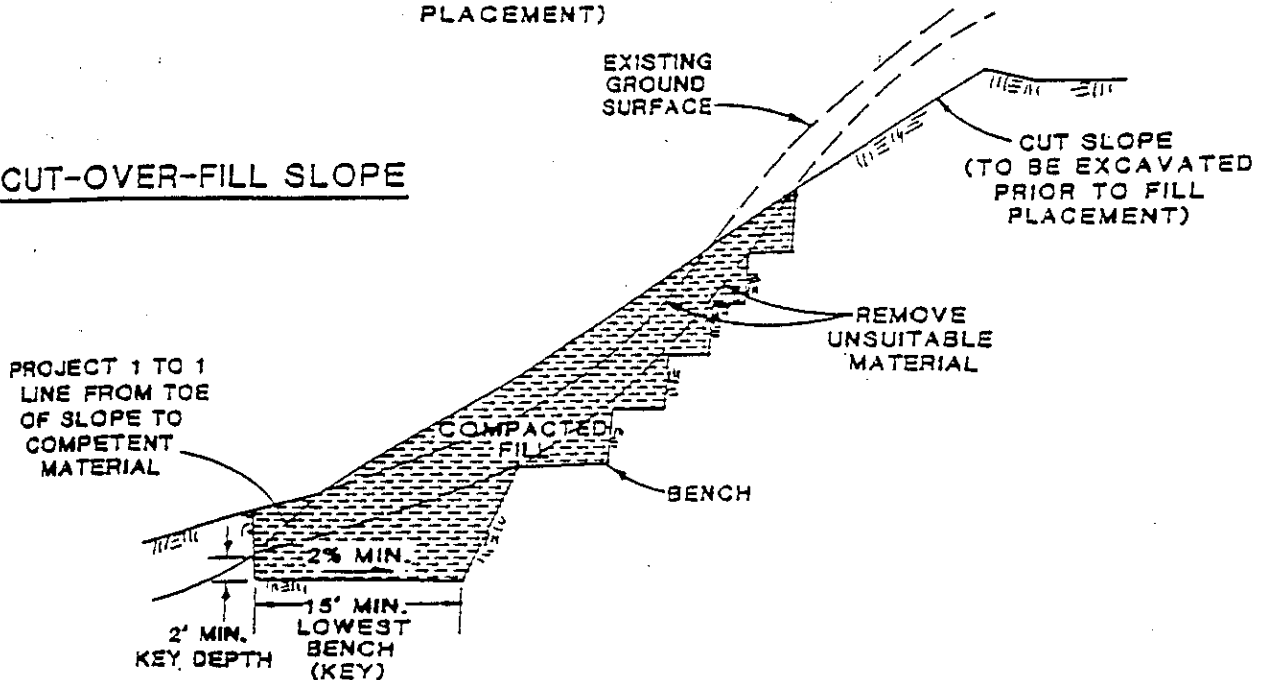
FILL SLOPE



FILL-OVER-CUT SLOPE



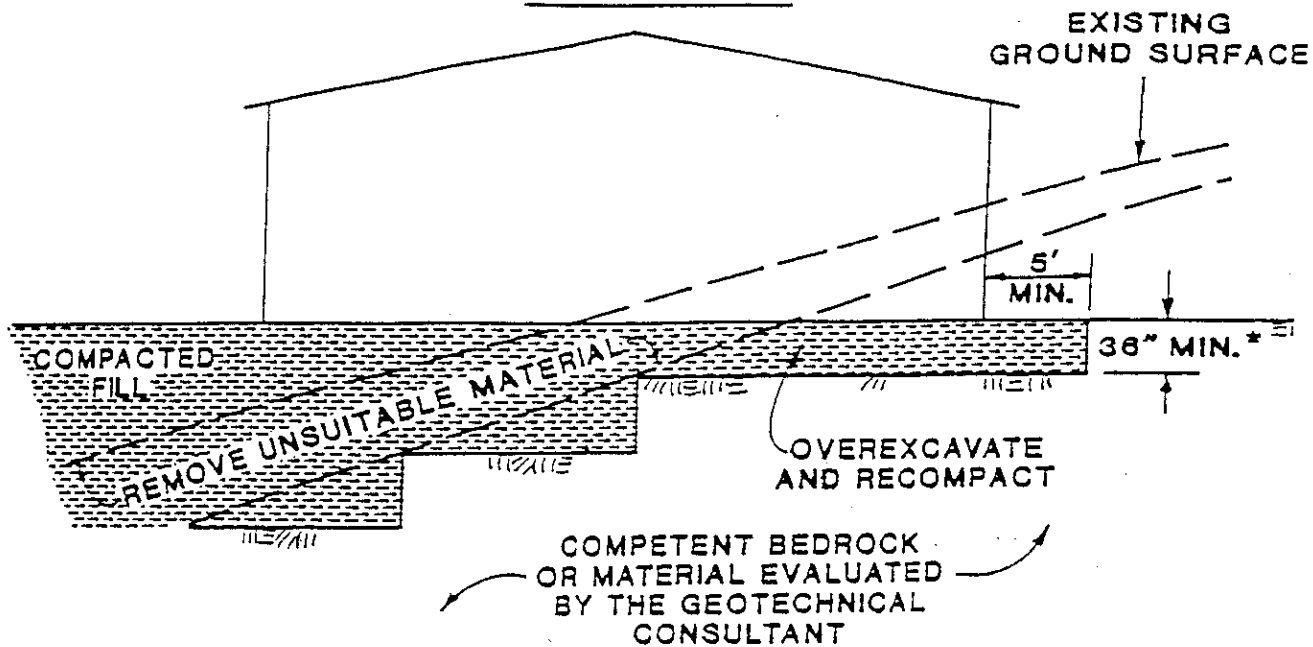
CUT-OVER-FILL SLOPE



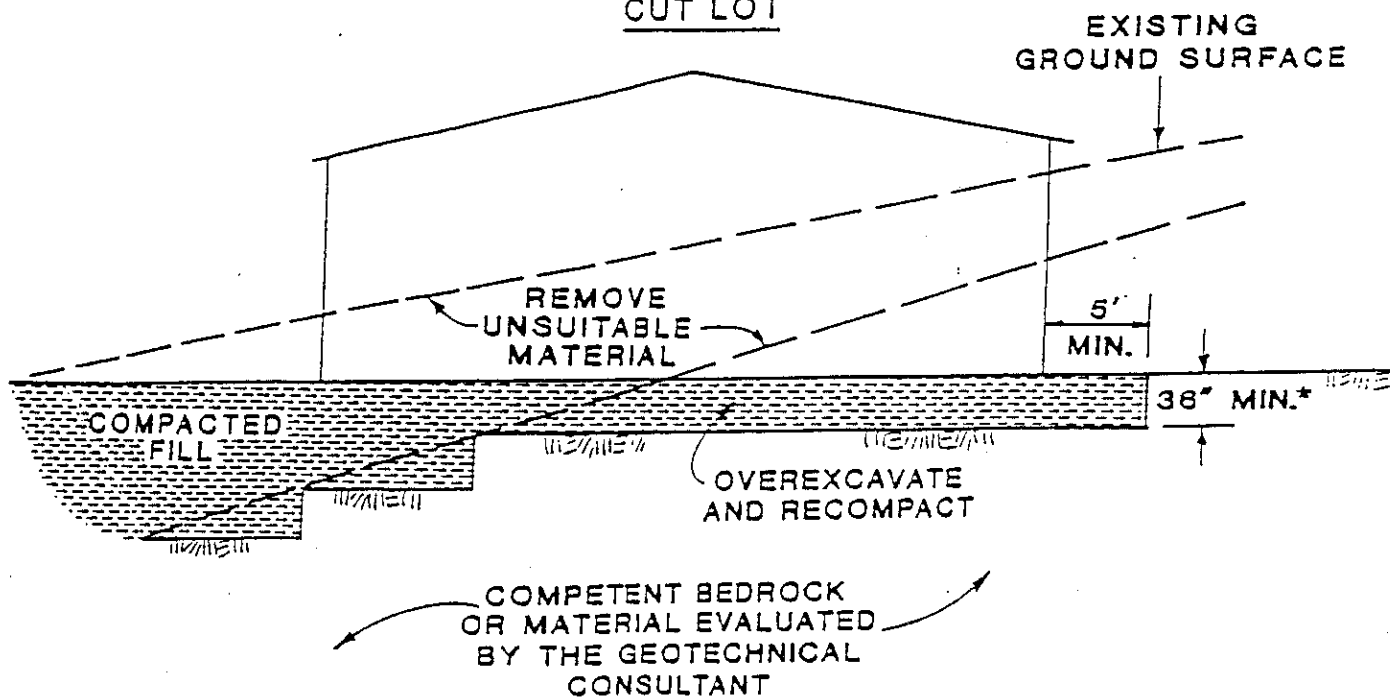
NOTE: Back drain may be recommended by the geotechnical consultant based on actual field conditions encountered. Bench dimension recommendations may also be altered based on field conditions encountered.

TRANSITION LOT DETAILS

CUT-FILL LOT



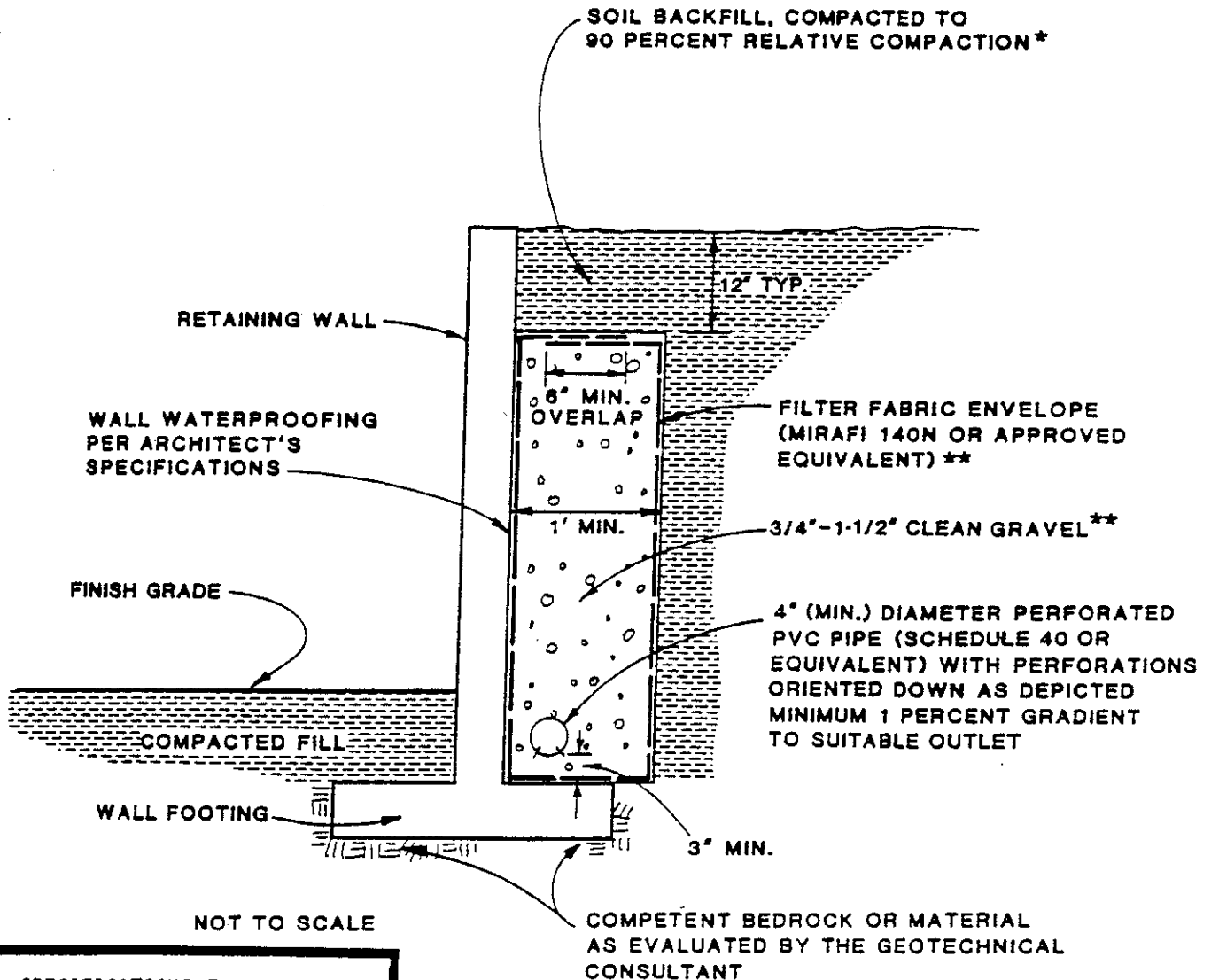
CUT LOT



***NOTE:**

Deeper or laterally more extensive overexcavation and recompaction may be recommended by the geotechnical consultant based on actual field conditions encountered and locations of proposed improvements

RETAINING WALL DRAINAGE DETAIL



NOT TO SCALE

SPECIFICATIONS FOR CALTRANS CLASS 2 PERMEABLE MATERIAL	
U.S. Standard Sieve Size	% Passing
1"	100
3/4"	90-100
3/8"	40-100
No. 4	25-40
No. 8	18-33
No. 30	5-15
No. 50	0-7
No. 200	0-3
Sand Equivalent > 75	

* BASED ON ASTM D1557

** IF CALTRANS CLASS 2 PERMEABLE MATERIAL (SEE GRADATION TO LEFT) IS USED IN PLACE OF 3/4"-1-1/2" GRAVEL, FILTER FABRIC MAY BE DELETED. CALTRANS CLASS 2 PERMEABLE MATERIAL SHOULD BE COMPACTED TO 90 PERCENT RELATIVE COMPACTION *

NOTE: COMPOSITE DRAINAGE PRODUCTS SUCH AS MIRADRAIN OR J-DRAIN MAY BE USED AS AN ALTERNATIVE TO GRAVEL OR CLASS 2. INSTALLATION SHOULD BE PERFORMED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

APPENDIX J
PRODUCT SUBMITTAL FORM



Product Submittal Form

Contractor Name: _____

Project Name: _____

SAP No. (WBS/IO/CC): _____

Drawing Number: _____

Resident Engineer Name: _____

Submittal Number: _____

List name, type, purpose and quantity of product to be used (include model number if applicable):

List location on job product is to be used (Specify locations, sheets, stations, as applicable):

Does this product deviate from the standards? Yes No If yes, explain how it deviates.

Specify sections of standards that apply/govern this product.

Reference Specification Number(s)

Special Provisions _____

Whitebook _____

Greenbook _____

ASTM _____

AWWA _____

UL¹ _____

Other¹ _____

¹Attach relevant pages.

What standards govern this product's installation?

Provide installation instruction and requirements as required by the Contract Documents, ASTM or Manufacturer

Independent Certified Lab Test Provided? Yes No

Certified or authorized Installer: Yes No

Has this product been used on City of San Diego projects for this type of application?

Yes No If yes, list project name(s):

Has this product been used at other municipalities for similar projects? Yes No

If yes, provide details (Municipality name, project name, and contact person including, email address and phone number).

City Response:

NO EXCEPTION TAKEN

REJECTED

SUBMIT SPECIFIED ITEM

MAKE CORRECTIONS NOTED

REVISE AND RESUBMIT

SUBMIT TO AML
COMMITTEE FOR
CONSIDERATION

CITY PROJECT MANAGER

By: _____

Name: _____

Date: _____

CITY RESIDENT ENGINEER

By: _____

Name: _____

Date: _____

ATTACHMENT F

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HILLERY DRIVE IMPROVEMENTS

CONTRACTOR'S RESPONSIBILITIES

1. PURSUANT TO SECTION 4216 OF THE CALIFORNIA GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G., UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.

2. NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (I.E., 69 KV & HIGHER)

TRAFFIC CONTROL NOTES:

THE CONTRACTOR SHALL, PER SECTION 7-10.2.1 OF THE CONTRACT SPECIAL PROVISIONS, PREPARE TRAFFIC CONTROL SHOP DRAWINGS AND SUBMIT THEM TO THE RESIDENT ENGINEER. THE SHOP DRAWINGS WILL BE SENT TO THE ENGINEERING TRAFFIC CONTROL SECTION FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWENTY (20) WORKING DAYS FOR REVIEW OF THE SHOP DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE ENGINEERING TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT. WORK SHALL NOT BEGIN IN THE PUBLIC RIGHT OF WAY WITHOUT THE APPROVED TCP PERMIT.

STORM WATER PROTECTION

THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001 AND WPCP.

WATER POLLUTION CONTROL NOTES:

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS NOTED IN THE GREENBOOK 2012 CITY SUPPLEMENT SEC 701 - WATER POLLUTION CONTROL, PREPARE A WATER POLLUTION CONTROL PLAN, AND PROTECT ALL EXISTING STORM DRAIN INLET STRUCTURES FROM SEDIMENTATION, CONTAMINATION FROM RUNOFF, ROCK WASHING RUNOFF, OR ANY OTHER PROJECT SITE RUNOFF BY PLACING EROSION CONTROL DEVICES AS APPROVED BY THE RESIDENT ENGINEER.

STREET CLASSIFICATION

STREET NAME: HILLERY DRIVE
COLLECTOR, ADT=9,690

STREET NAME: BLACK MOUNTAIN ROAD
COLLECTOR, ADT=16,900

CITY REFERENCE DRAWINGS:

14383-D, 16558-D, 17357-D, 27274-D, 29558-D, 29617-D, 29650-D, 33052-D, 35085-D

SURVEY FIELD DATA

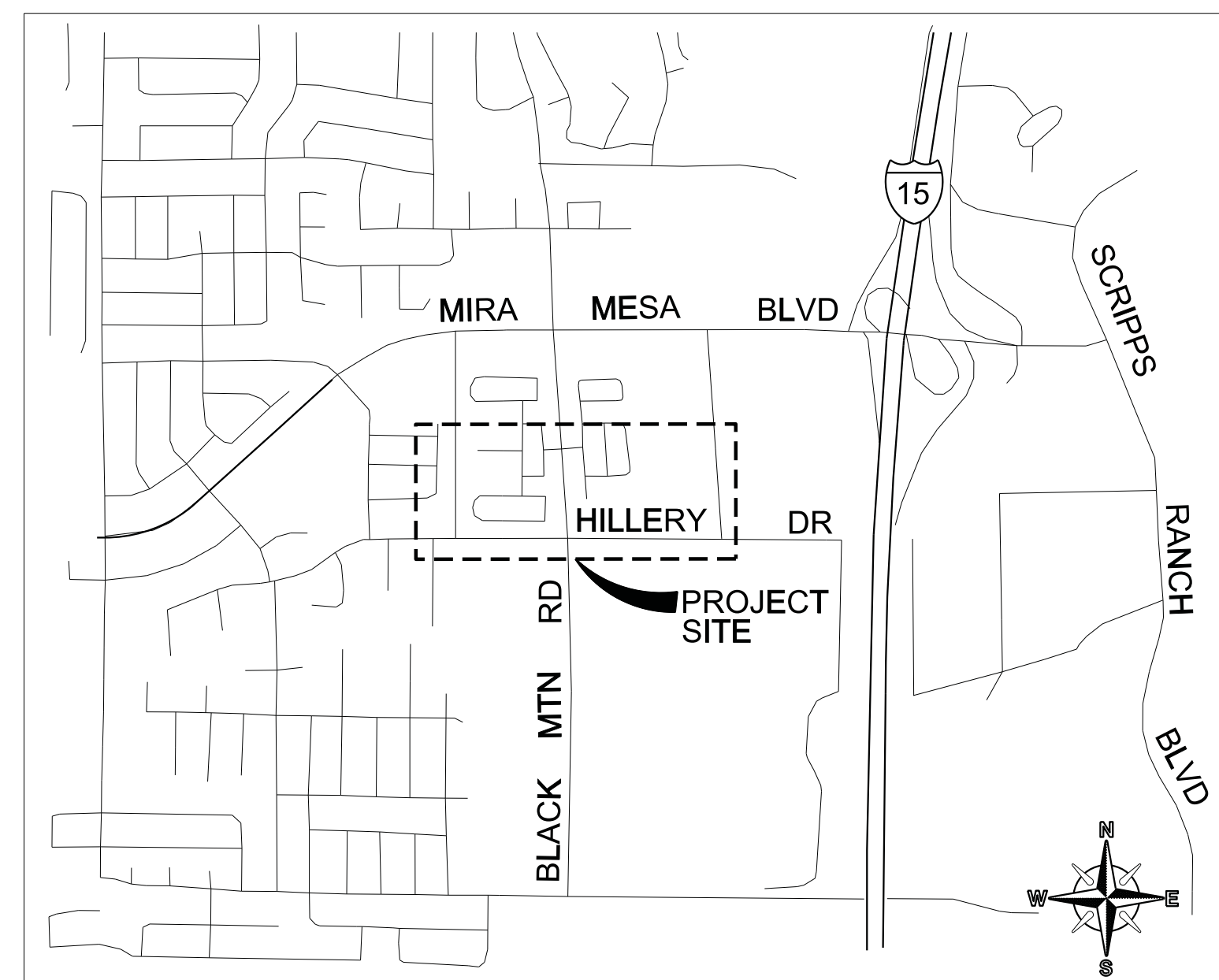
REFERENCES:
City of San Diego PRELIMINARY SURVEY FIELD NOTES;
C. RENNER, 272-1731, 12003455, 6/8/10
MAPS: 6779, 6787, 7634, 7635, 7882, 8456, 8510, 8678, 9182, 9291,
9834, 13802
ROS: 12325
CITY DWG: 12558-B, 13592-B, 13398-B, 18966-B, 21168-B

BASIS OF BEARINGS/COORDINATES:
THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY, R.O.S. 14492, NAD 83, ZONE 6 (EPOCH 91.35), UTILIZING RTK/GPS FIELD PROCEDURES WITH THE BASE STATION LOCATED RANDOMLY AND CONSTRAINING TO GPS 625 AND GPS 566, I.E. N 455°13' W, 6766.48, CONTROL LOCALLY CONSTRAINED TO:
PTS 524 AND 51 PER LEPAGE, 4/24/07, WO 680092, 276-1725

BENCH:
NEBP CAMINO RUIZ AND MIRA MESA BLVD, ELEV. 430.039 MSL, BASED ON NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCH BOOK.

SHEET INDEX

SHEET NO.	DISCIPLINE CODE	TITLE	DESCRIPTION
1	G-1	TITLE SHEET	
2	G-2	DETAILS AND CROSS SECTIONS	
3	D-1	DEMOLITION PLAN	
4	C-1	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 10+00 TO 18+00)
5	C-2	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
6	C-3	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
7	SS-1	SIGNING AND STRIPING PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
8	SS-2	SIGNING AND STRIPING PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
9	EC-1	EROSION CONTROL PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
10	EC-2	EROSION CONTROL PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
11	TC-1	TRAFFIC CONTROL PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
12	TC-2	TRAFFIC CONTROL PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
13	TC-3	TRAFFIC CONTROL PLANS	INT. OF HILLERY DRIVE AND RICKERT ROAD
14	S-1	RETAINING WALL PLANS	HILLERY DRIVE (STATION 10+00 TO 18+00)
15	S-2	RETAINING WALL PLANS	
16	S-3	RETAINING WALL PLANS	
17	S-4	RETAINING WALL PLANS	
18	S-5	RETAINING WALL PLANS	
19	S-6	RETAINING WALL PLANS	
20	S-7	RETAINING WALL PLANS	
21	E-1	TRAFFIC SIGNAL PLANS	INT. OF HILLERY DRIVE AND BLACK MTN ROAD
22	E-2	TRAFFIC SIGNAL PLANS	HILLERY DRIVE AND RICKERT ROAD
23	E-3	TRAFFIC SIGNAL PLANS	INT. OF HILLERY DRIVE AND RICKERT ROAD



KEY MAP
NO SCALE

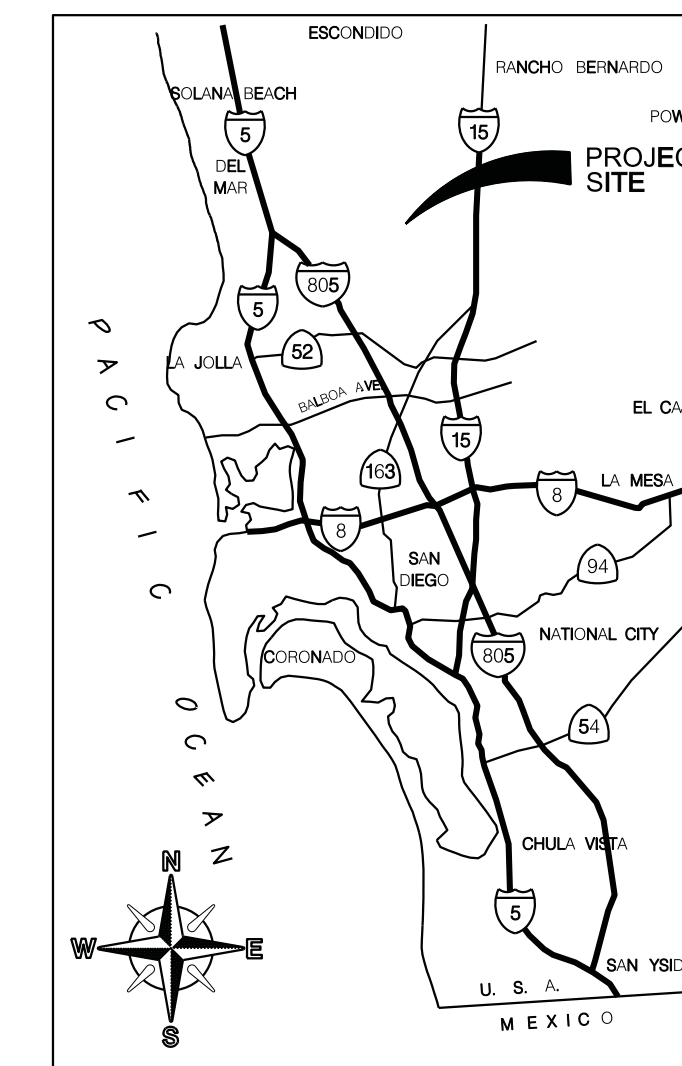
ABBREVIATIONS

ABAND	ABANDON	CO	CLEANOUT	HP	HIGH POINT	HMA-A	HOT MIX ASPHALT (TYPE A)
ABAND'D	ABANDONED	COND	CONDUIT	LP	LOW POINT	RHMA-G	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
AC	ASPHALT CONCRETE	ECR	END CURB RETURN	LT	LEFT	CTB	CEMENT TREATED BASE
BC	BOTTOM OF CURB	EL	ELEVATION	PROP	PROPOSED		
BCR	BEGIN CURB RETURN	ELEC	ELECTRICAL	P/L	PROPERTY LINE		
BTWN	BETWEEN	EX	EXISTING	RT	RIGHT		
CATV	CABLE TV	FG	FINISH GRADE	R/W	RIGHT OF WAY		
CL	CENTER LINE	FL	FLOW LINE	TB	TOP OF BOX		
CI	CURB INLET	FS	FINISH SURFACE	TC	TOP OF CURB		
		GB	GRADE BREAK	UNK	UNKNOWN		

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE STANDARD SPECIFICATIONS AND THE STANDARD DRAWINGS OF THE CITY OF SAN DIEGO:

REMOVE PORTIONS OF EXISTING CONCRETE, ASPHALT PAVING AND LANDSCAPE IMPROVEMENTS ALONG HILLERY DRIVE AND REPLACE WITH NEW PAVING, OVERLAY, CONCRETE SIDEWALK AND RETAINING WALL. RELOCATE EXISTING CURB INLET ALONG HILLERY DRIVE AND INSTALL NEW CLEANOUT AT JUNCTION; REMOVE PORTIONS OF EXISTING PAVEMENT ALONG RICKERT ROAD AND INSTALL NEW PCC CHICANES. MODIFY SIGNAL AT INTERSECTIONS AND EXISTING STRIPING; INSTALL NEW RAISED, LIGHTED CROSSWALK ALONG HILLERY DRIVE; RECONSTRUCT EXISTING SIDEWALK, DRIVEWAY AND HARDSCAPE AT ADJACENT PARCEL; INSTALL NEW STREETLIGHTS; RECONSTRUCT VARIOUS ADA RAMPS AND PEDESTRIAN FACILITIES.



VICINITY MAP
NOT TO SCALE

GRADING QUANTITIES

DISTURBED AREA... 0.67 [ACRES] MAX. CUT DEPTH... 6.67 [FT]
CUT QUANTITIES... 310 [CY] MAX. FILL DEPTH... 5.00 [FT]
FILL QUANTITIES... 50 [CY] EXPORT... 260 [CY]

THIS PROJECT PROPOSES TO EXPORT 260 CUBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

LEGEND

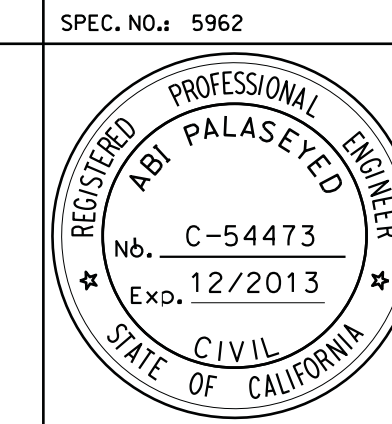
PROPOSED IMPROVEMENTS	STD DWG / REFERENCE	SYMBOL
CURB & GUTTER (TYPE G)	SDG-110, SDG-151	
PCC SIDEWALK	SDG-109, SDG-155	
RETAINING WALL	STRUCTURAL SHEETS	
ASPHALT PAVING	PER PLAN	
COLDMILL	SDG-106	
CURB INLET	DETAIL F, SHEET G-2	
SAWCUT		
CURB INLET (TYPE B-1)	SDD-116	
CLEANOUT (A-5)	D-9	
RCP STORM DRAIN (SIZE/TYPE PER PLAN)	SDD-100	
PROPOSED ELEVATION	436.65FS	
EXISTING ELEVATION	(436.65FS)	
FIRE HYDRANT	SDW-104	
EXISTING IMPROVEMENTS	REFERENCE	SYMBOL
WATER VALVE	N/A	
WATER METER	N/A	
FIRE HYDRANT	N/A	
SEWER MAIN & MANHOLES	N/A	
STORM DRAIN	N/A	
WATER	N/A	
TRAFFIC SIGNAL	N/A	
STREET LIGHT	N/A	
GAS MAIN	N/A	
ELECTRICAL, TELEPHONE, CABLE SERVICE	N/A	
EXISTING CONTOURS	N/A	

G-1

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS TITLE SHEET

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 1 OF 23 SHEETS

APPROVED FOR CITY ENGINEER Abi Palaseyed DATE: 12/20/13	DATE: 12/20/13	SUBMITTED BY J. MANCHESTER PROJECT MANAGER
DESIGNER Abi Palaseyed		PROJECT ENGINEER B. OLSON
DESCRIPTION ORIGINAL	BY JRM	APPROVED DATE FILMED
		270-1731 CCS27 COORDINATE
		1910444-6292407 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36647-01-D
INSPECTOR	DATE COMPLETED	



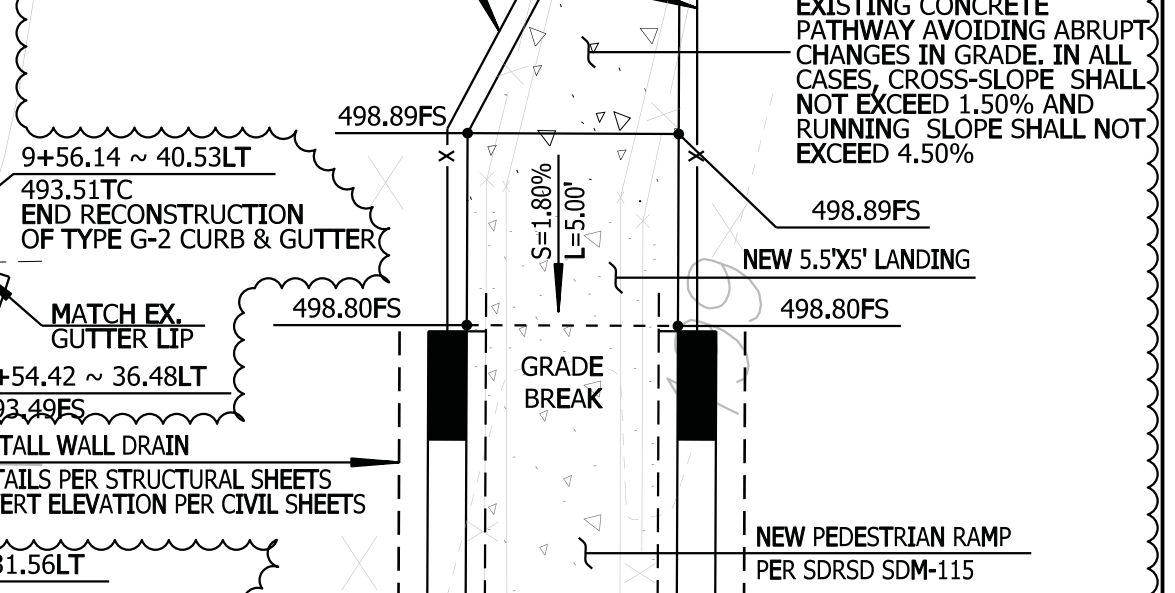
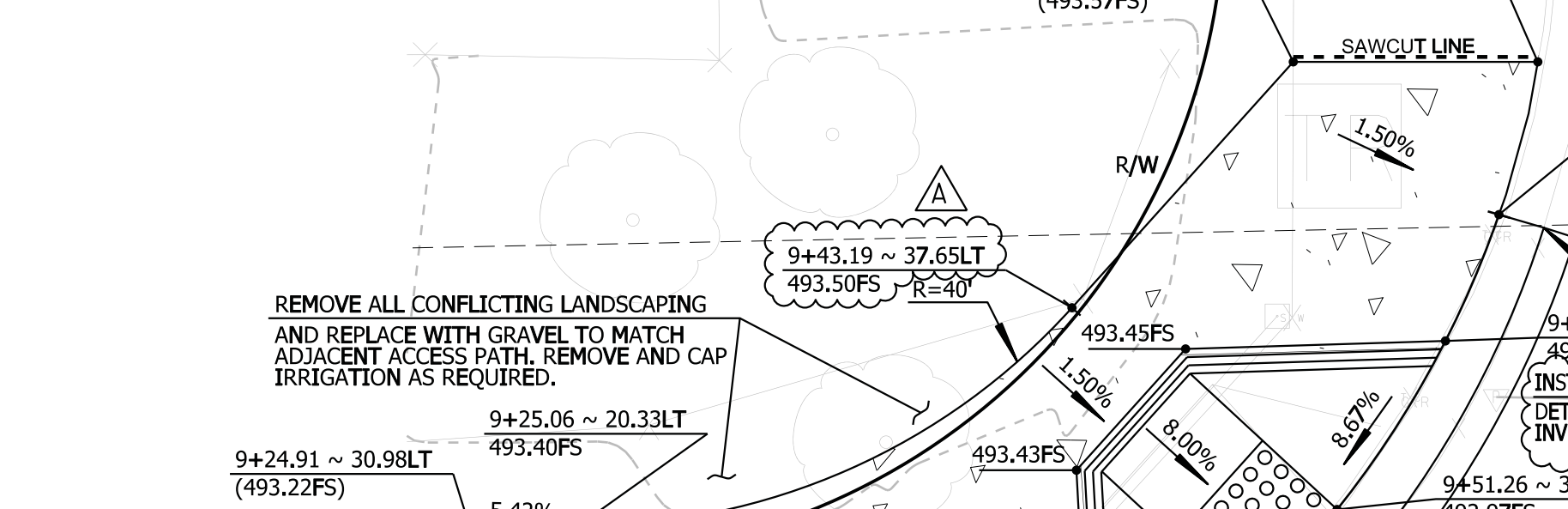
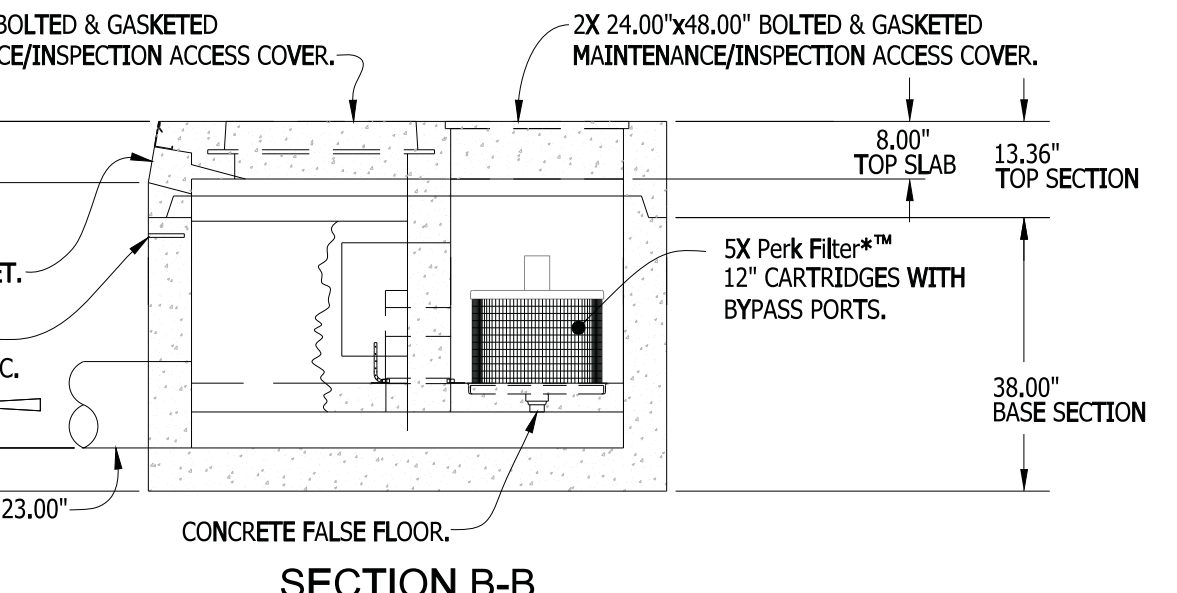
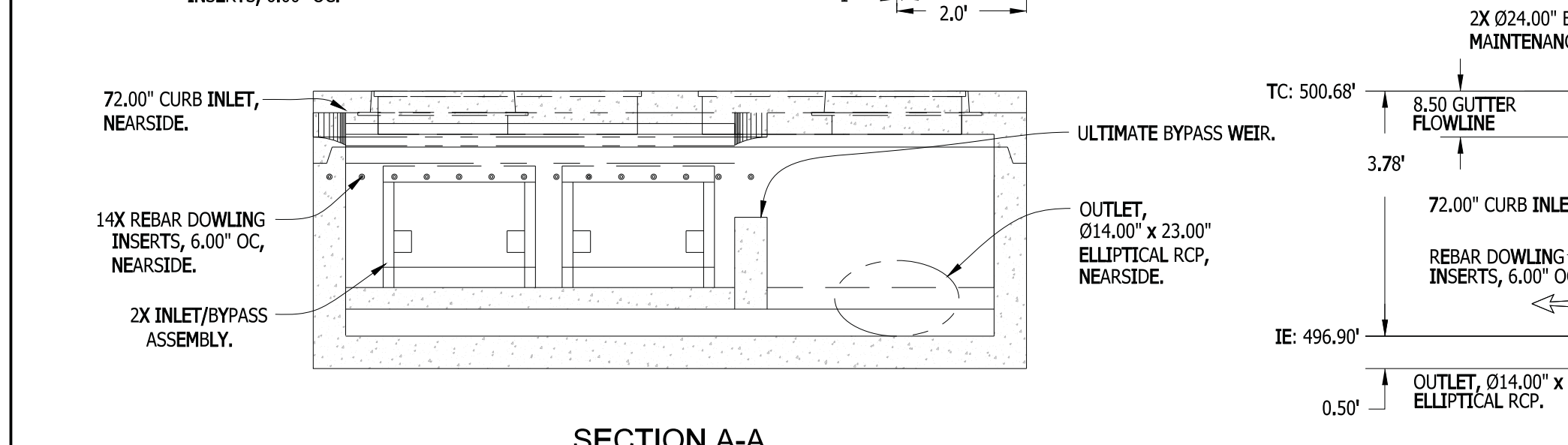
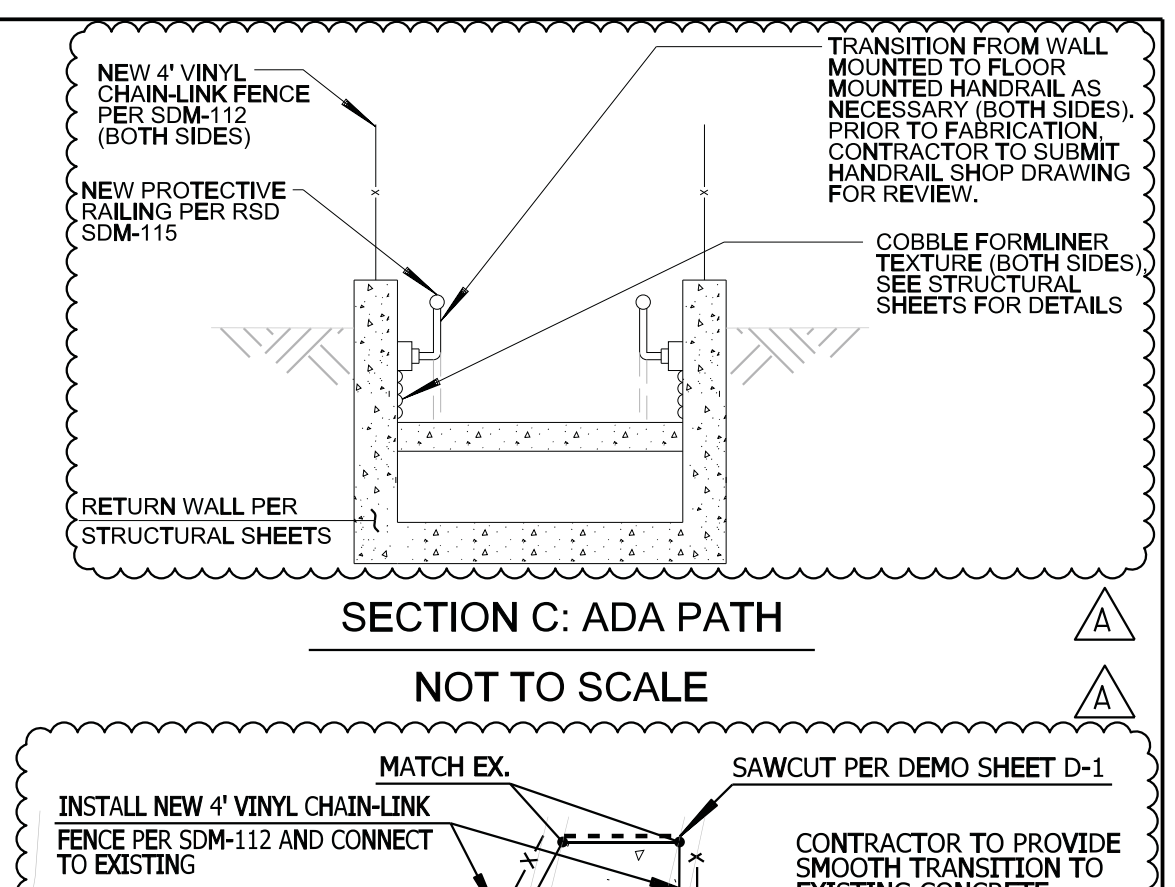
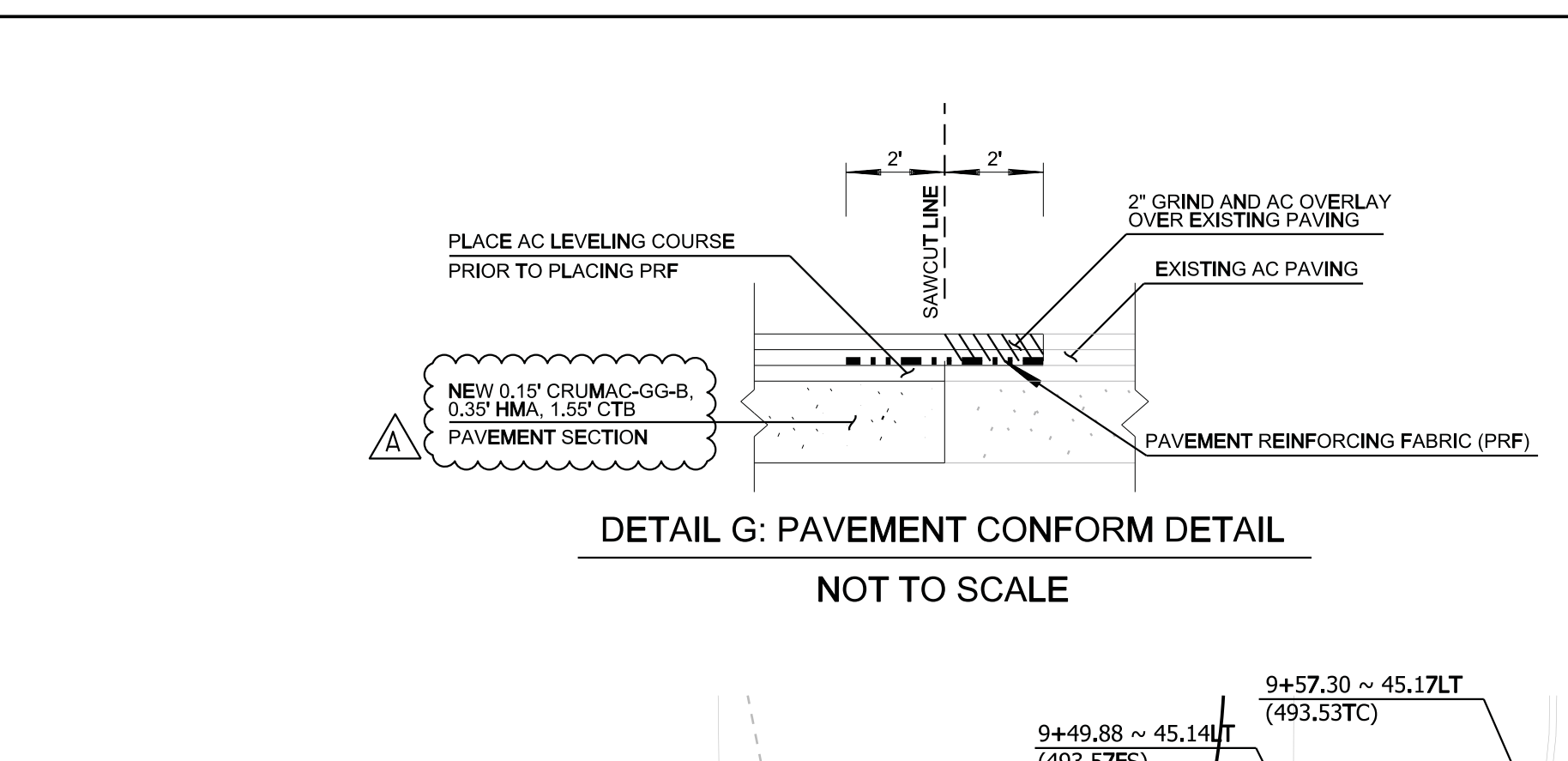
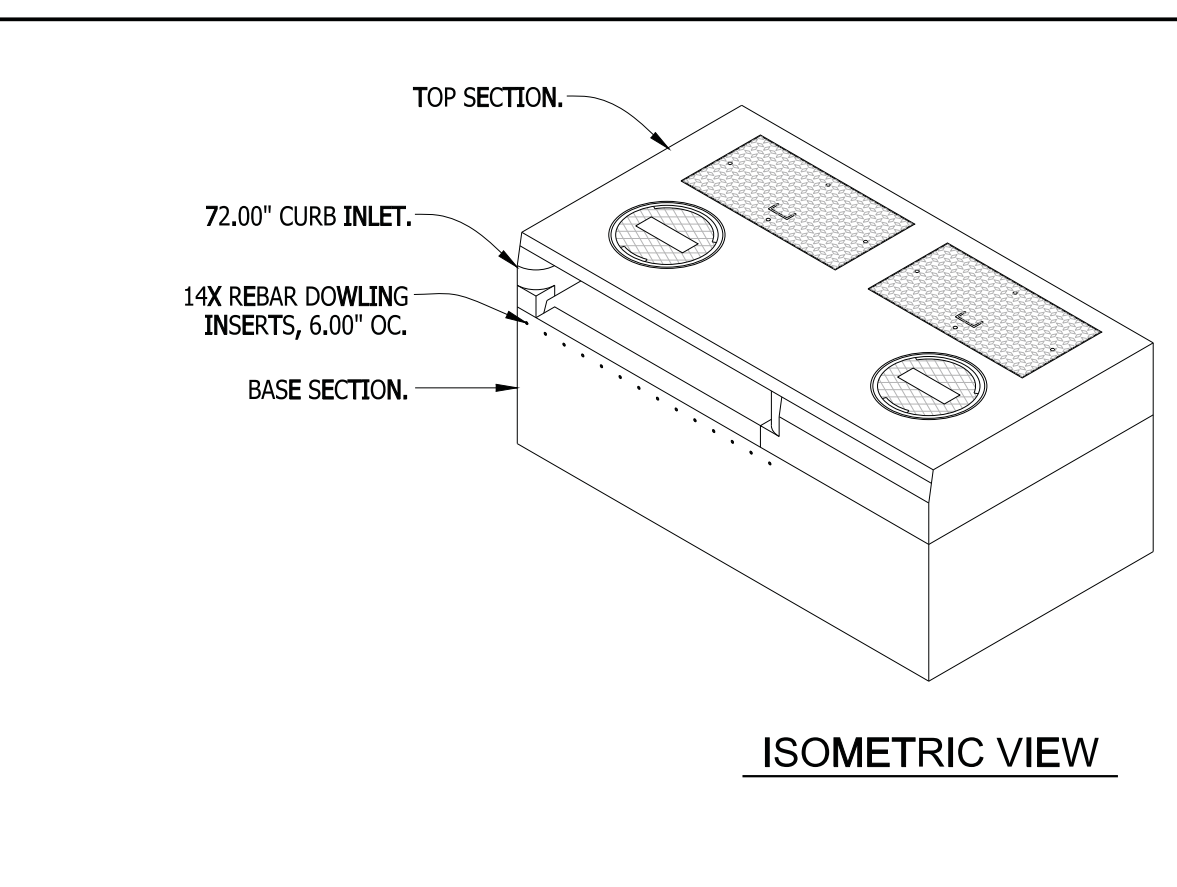
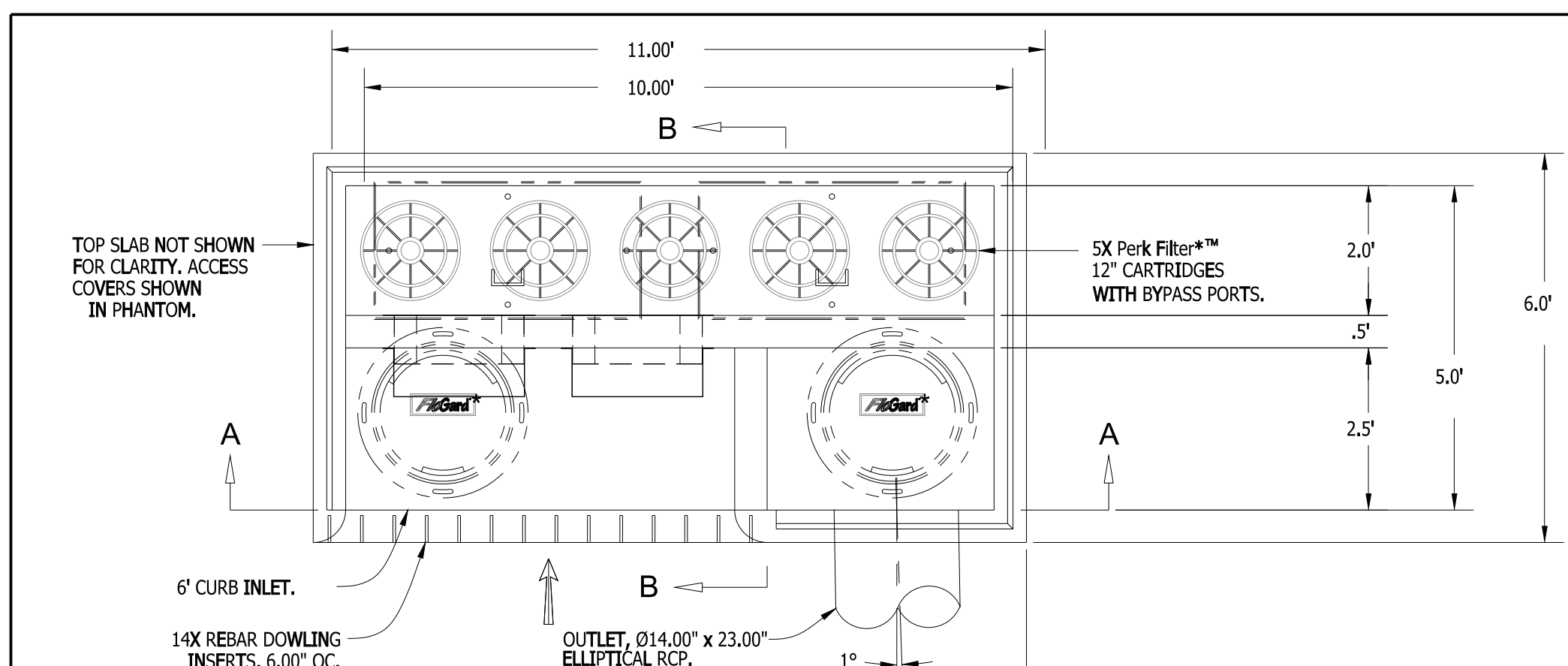
TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH --- MEDIUM --- LOW.X.. SPEC. No.: 5962



CITY OF SAN DIEGO PUBLIC WORKS PROJECT

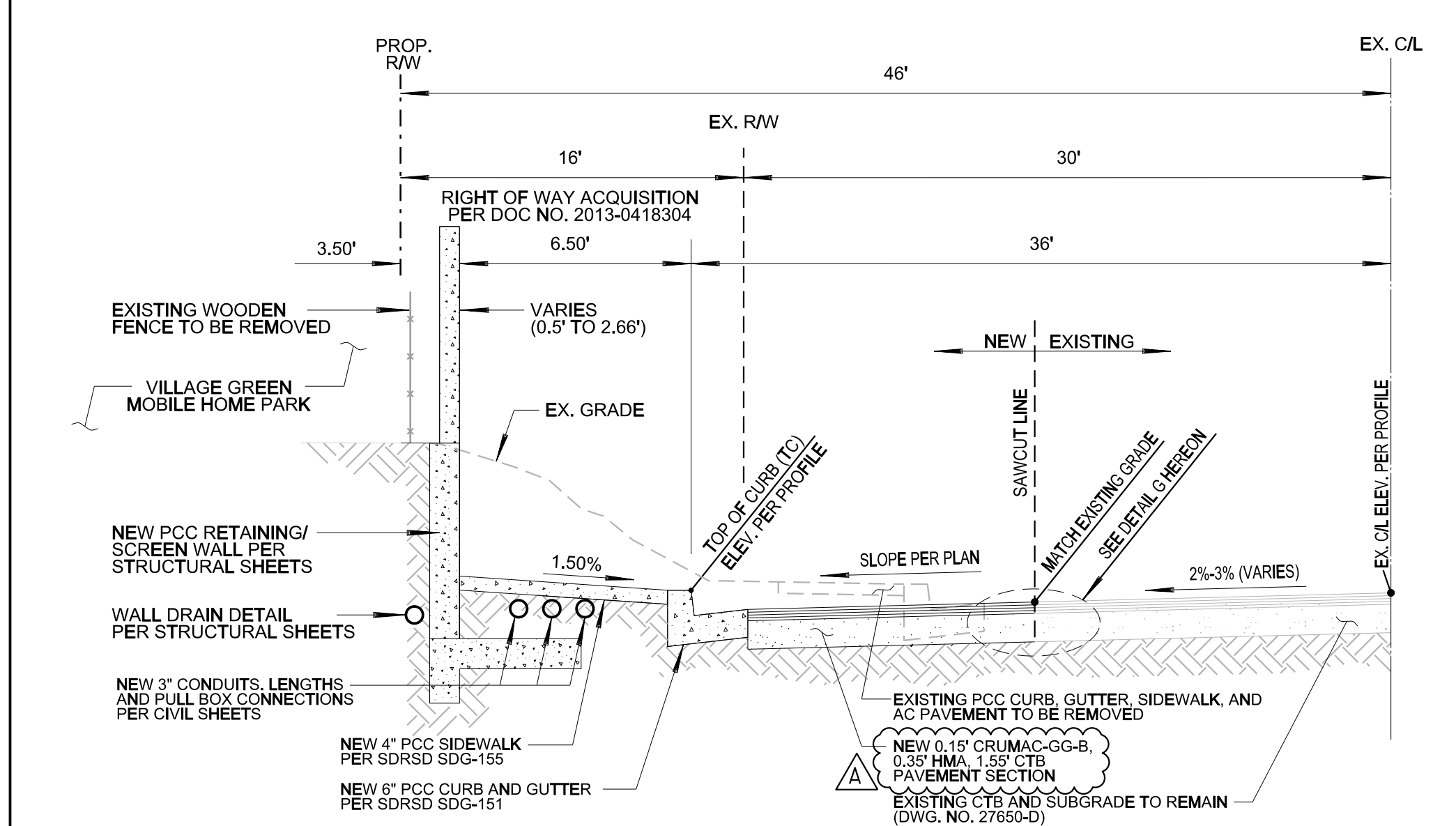
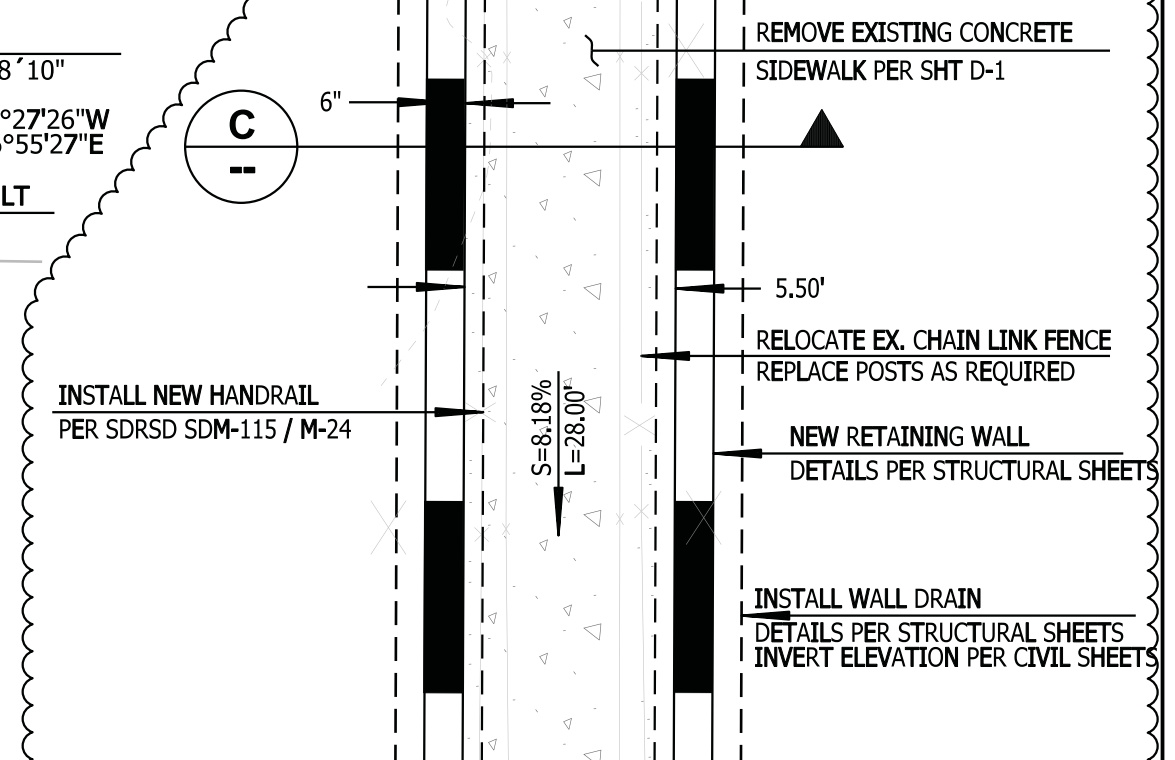
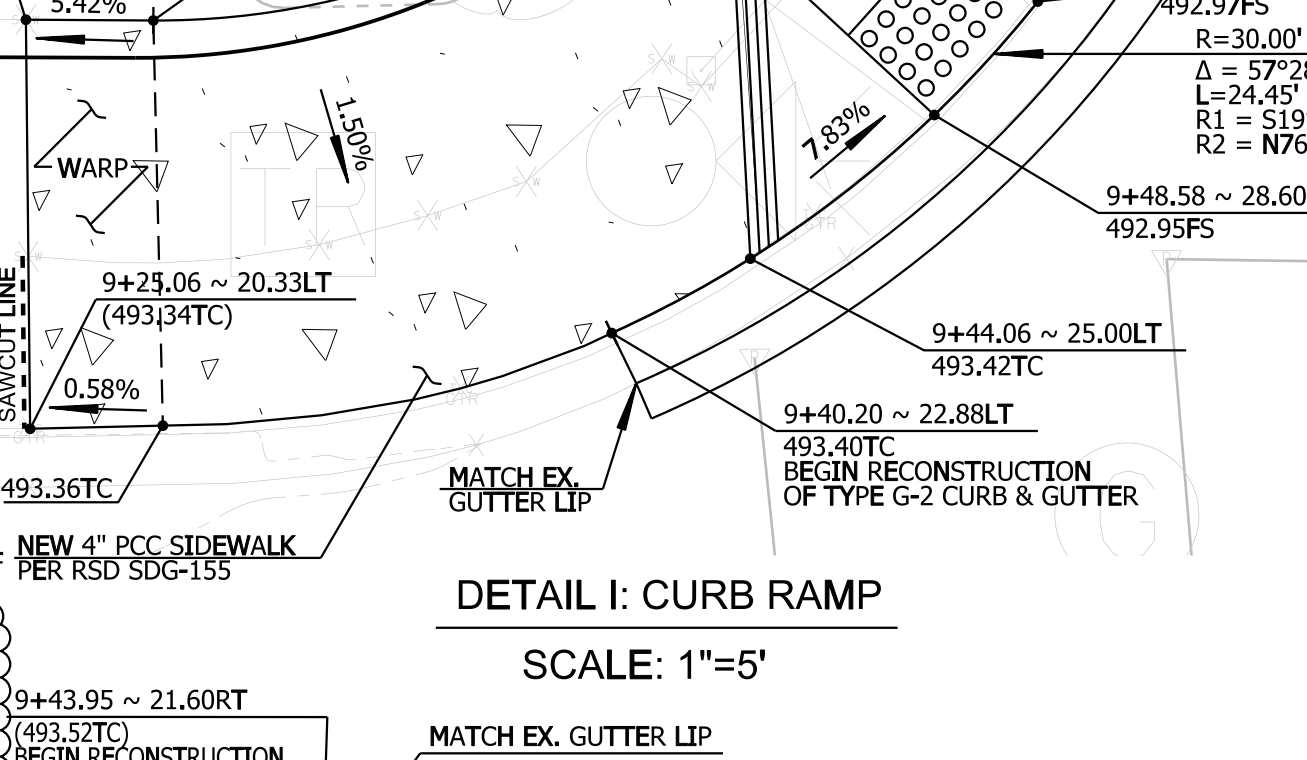
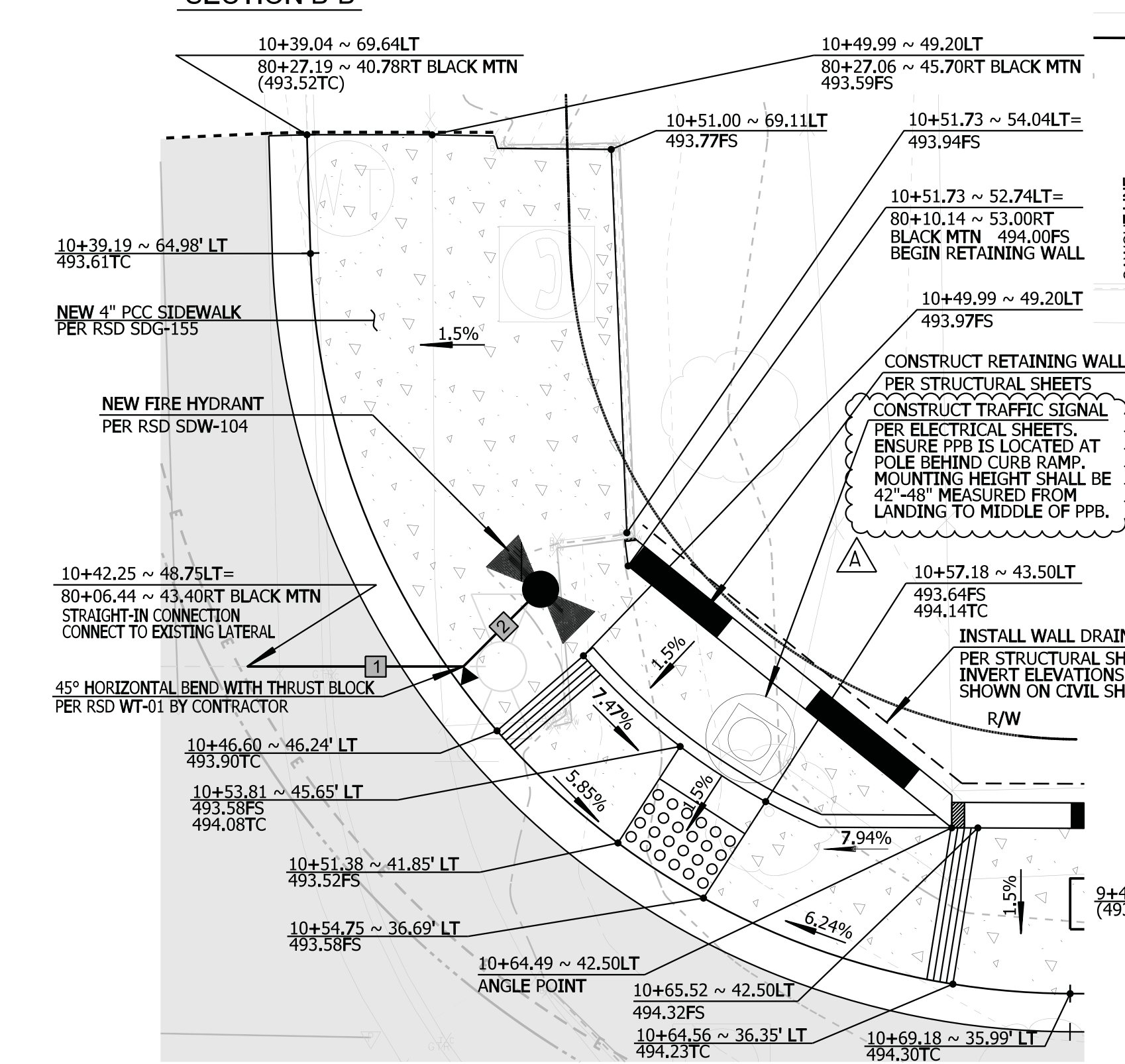
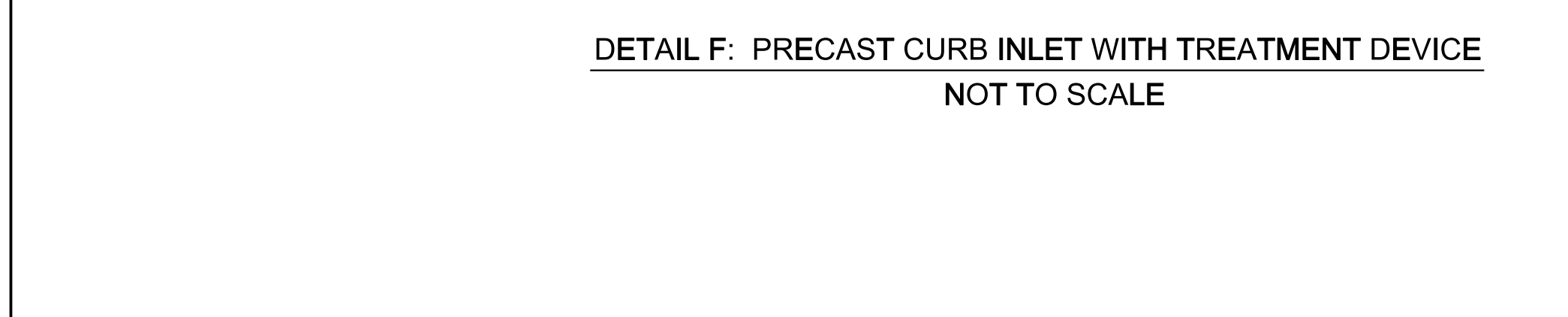
WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CONSTRUCTION CHANGE / ADDENDUM		
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS
A	12/30/13	2, 4, 5, 17



Perk Filter™ Vault - 5'X10' 12\"/>

- NOTE:
1. MAXIMUM PICK WEIGHT: BASE SECTION = ~16,500 LBS/8.25 TONS. [RC] (BASE SECTION, ASSEMBLED WITH CARTRIDGES INSTALLED).
 2. CONCRETE COMPONENTS ARE DESIGNED & MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION C857 & C858.
- *OR APPROVED EQUAL

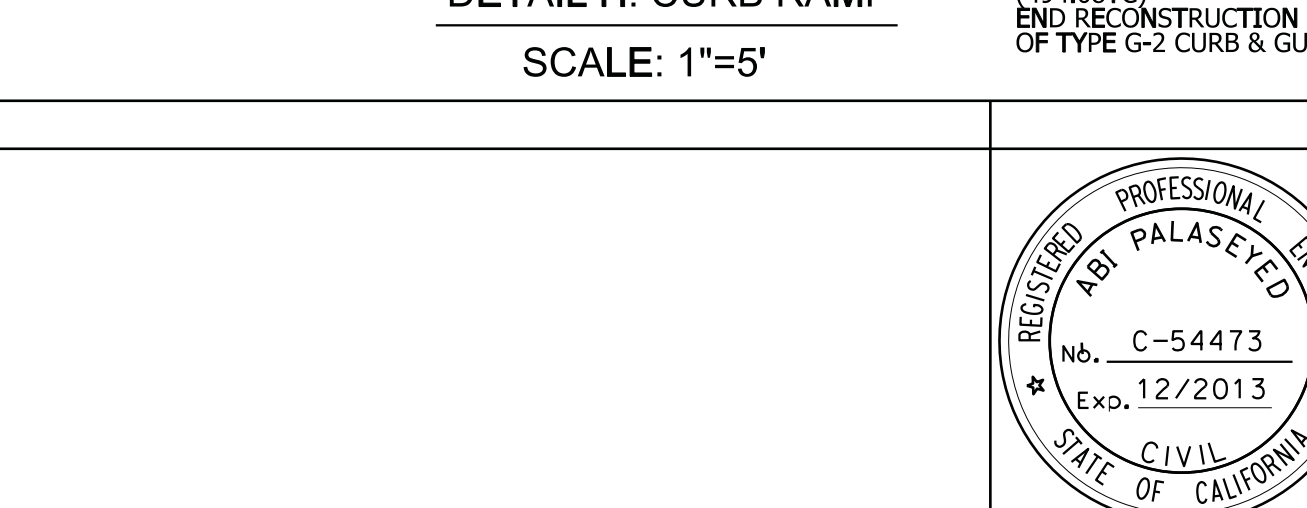
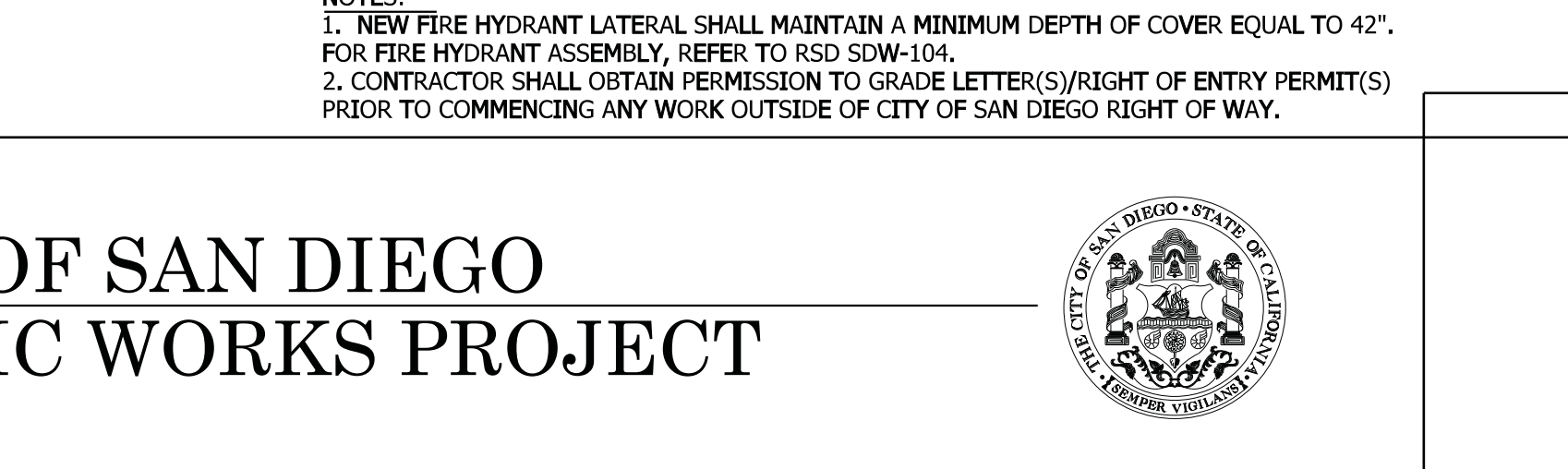
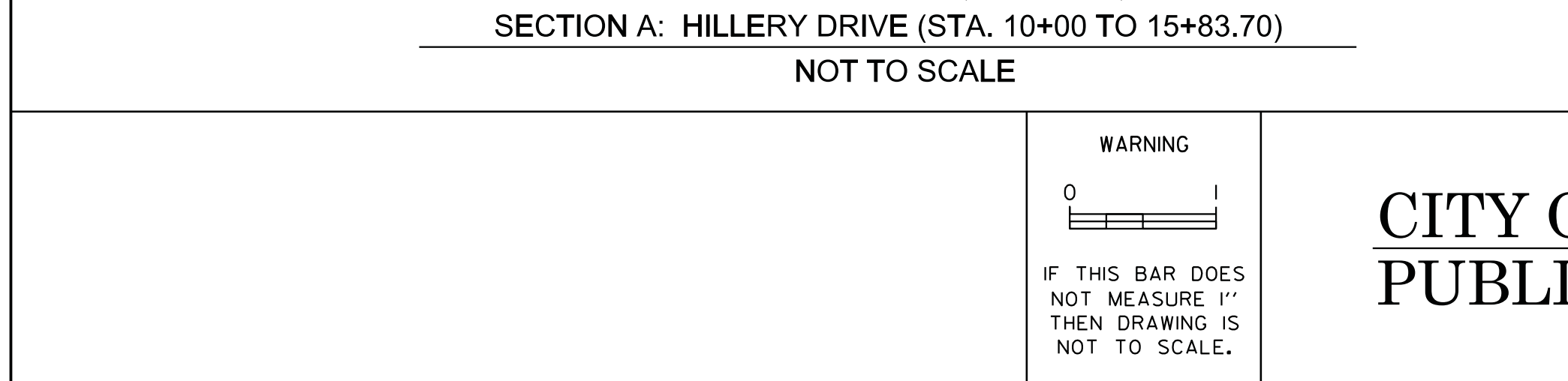
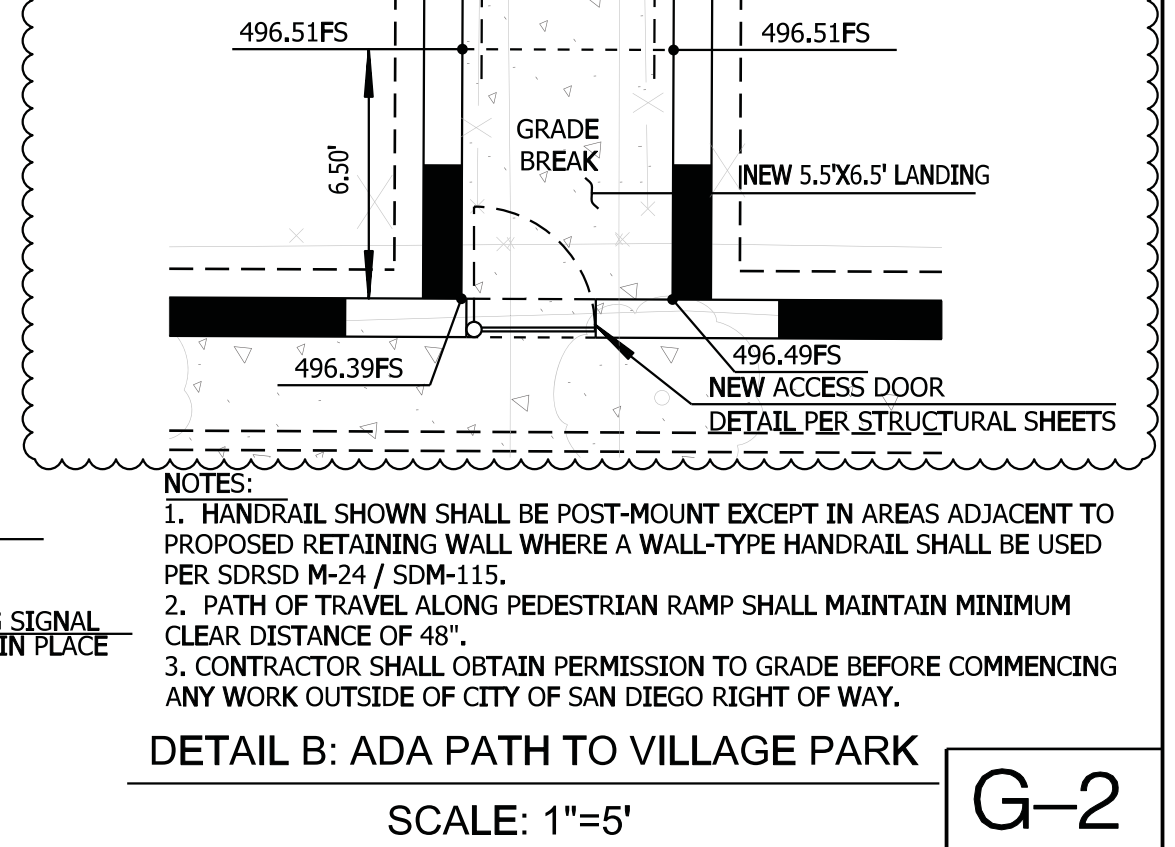
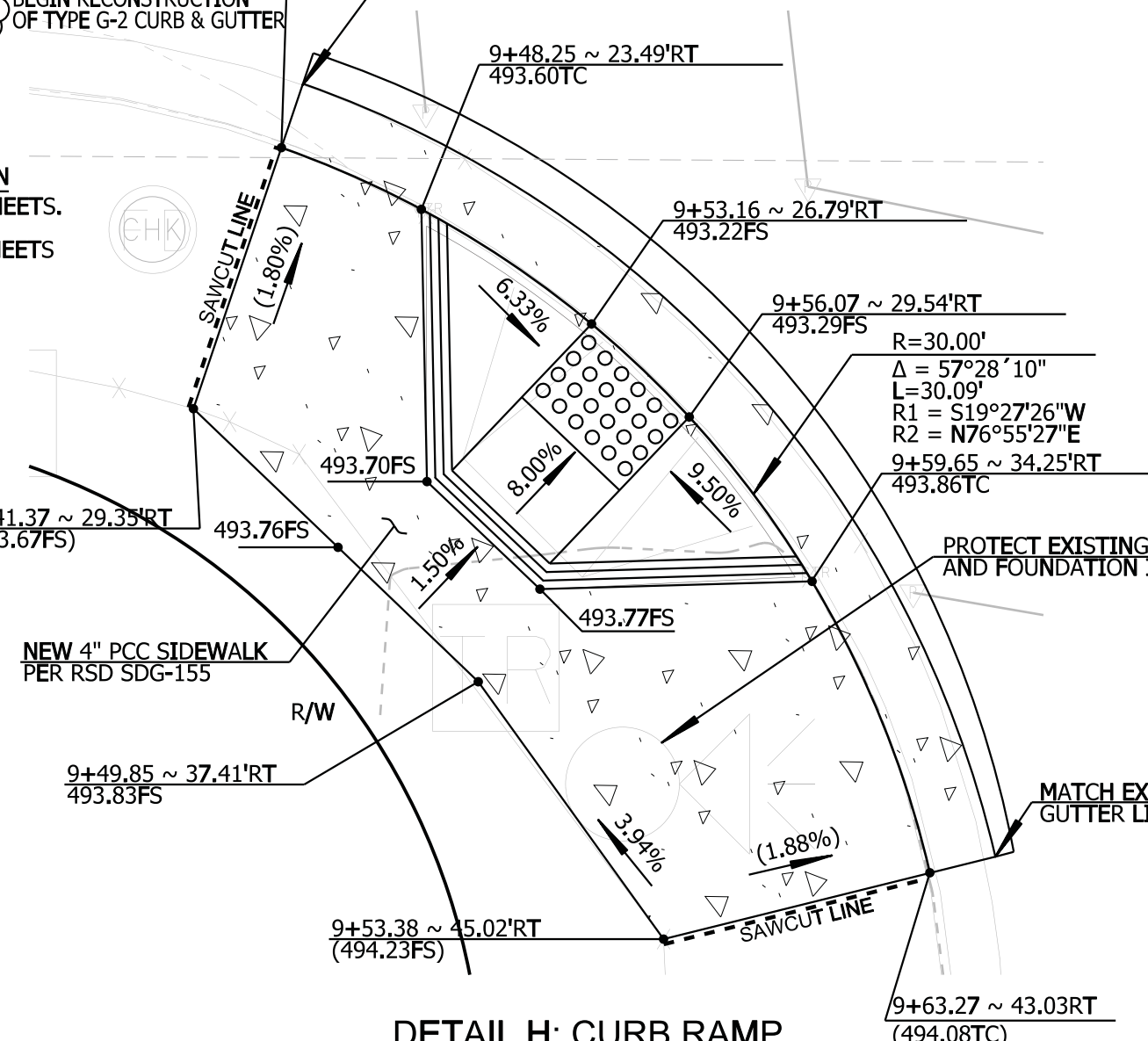


SCALE: 1"=5'

WATER DATA TABLE				
NO.	DELTA / BEARING	RADIUS	LENGTH	DESCRIPTION
1	S 90° 00' 00" E	-	8.50'	6" PVC C900-07, CL-200
2	N 45° 00' 00" E	-	5.00'	6" PVC C900-07, CL-200

NOTES:

1. NEW FIRE HYDRANT LATERAL SHALL MAINTAIN A MINIMUM DEPTH OF COVER EQUAL TO 42". FOR FIRE HYDRANT ASSEMBLY, REFER TO RSD SDW-104.
2. CONTRACTOR SHALL OBTAIN PERMISSION TO GRADE LETTER(S)/RIGHT OF ENTRY PERMIT(S) PRIOR TO COMMENCING ANY WORK OUTSIDE OF CITY OF SAN DIEGO RIGHT OF WAY.



PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS

NOTES AND DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 4 OF 23 SHEETS

WBS S-11064

APPROVED: *A. Palaseyed* 12/20/13
FOR CITY ENGINEER
DATE

SUBMITTED BY: J. MANCHESTER
PROJECT MANAGER

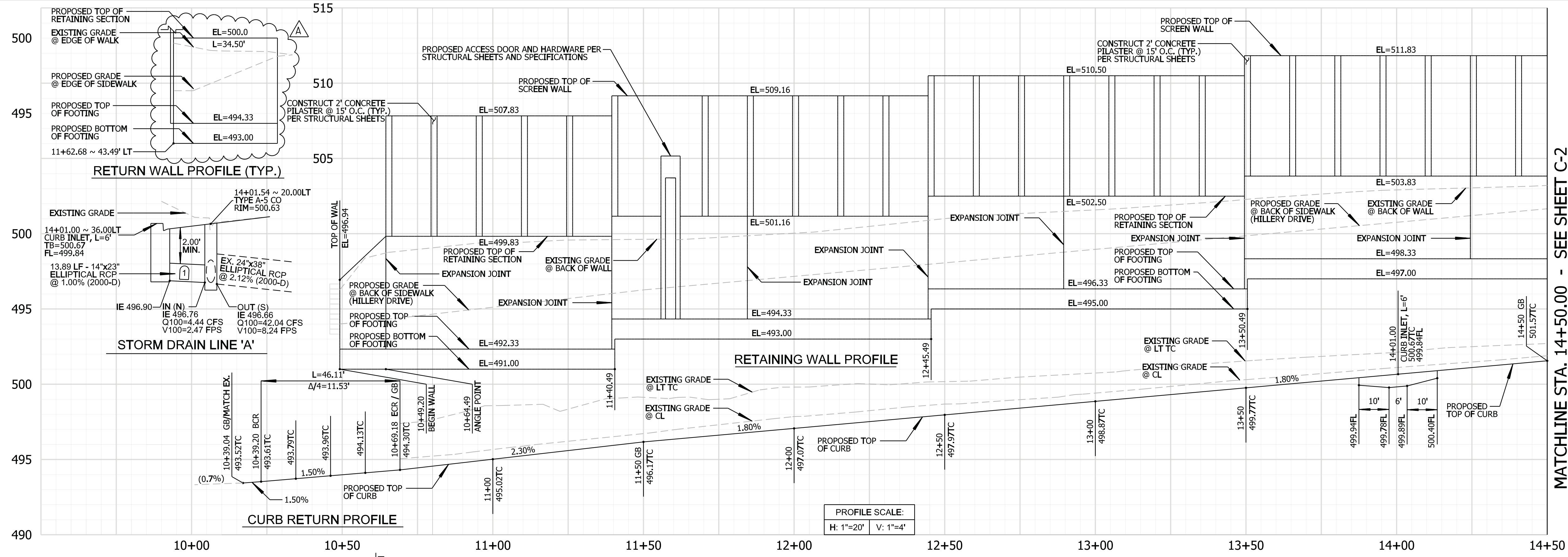
DCE NAME: *A. Palaseyed*

B. OLSON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	JRM			
	JRM	AP	12/20/13	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

36647-02-D

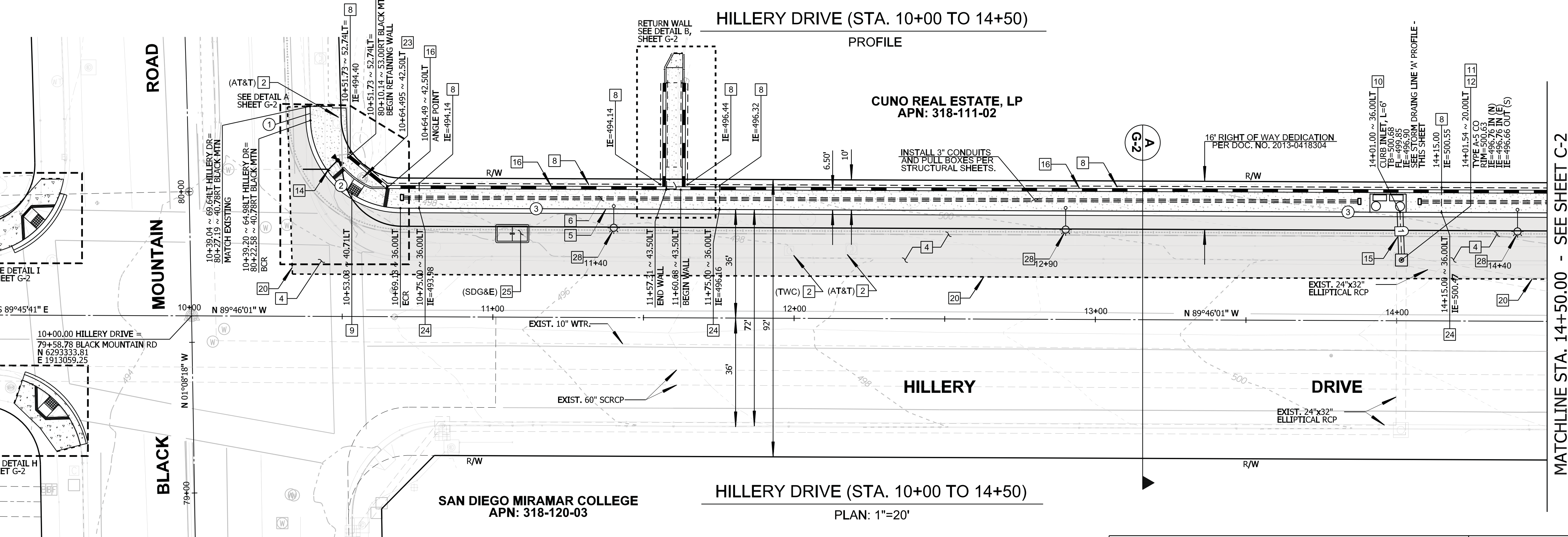
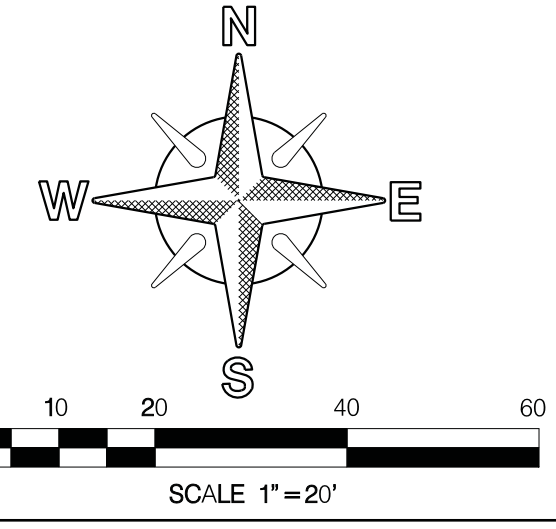


- ### CONSTRUCTION NOTES
- MATCH EXISTING.
 - ADJUST EXISTING UTILITY TO GRADE (BY OTHERS).
 - ADJUST EXISTING VALVE TO GRADE.
 - CONSTRUCT 0.15' CRUMAC-GG-B, 0.35' HMA, 1.55' CTB STREET SECTION. SEE DETAIL G, SHEET G-2.
 - CONSTRUCT 6" PCC CURB AND GUTTER PER RSD SDG-151.
 - CONSTRUCT 4" PCC SIDEWALK PER RSD SDG-155.
 - CONSTRUCT STREET LIGHT PER RSD SDE-101.
 - INSTALL RETAINING WALL SUB-DRAIN. INVERT ELEVATION DENOTED ON PLAN. SEE STRUCTURAL SHEETS FOR DETAILS.
 - CONSTRUCT MODIFIED TYPE C-1 CURB RAMP PER DETAIL A, SHEET G-2.
 - CONSTRUCT CURB INLET PER DETAIL F, SHEET G-2.
 - CONSTRUCT TYPE A-5 CLEANOUT PER RSD D-9.
 - CONNECT TO EXISTING STORM DRAIN SYSTEM.
 - CONSTRUCT NEW PCC DRIVEWAY PER RSD SDG-159. LENGTH PER PLAN.
 - CONSTRUCT NEW FIRE HYDRANT ASSEMBLY PER RSD SDW-104. SEE DETAIL A, SHEET G-2.
 - INSTALL 14"x23" ELLIPTICAL RCP STORM DRAIN (2000-D). SEE LINE 'A' PROFILE HEREON.
 - CONSTRUCT RETAINING WALL PER STRUCTURAL SHEETS. WALL PROFILE SHOWN HEREON.
 - PROTECT IN PLACE. IMPROVEMENT NOTED ON PLAN.
 - REMOVE EXISTING LANDSCAPING AND CAP IRRIGATION SERVICES AS REQUIRED.
 - ADJUST EXISTING UTILITY TO FINISH GRADE. EXISTING TYPE AND LOCATION NOTED ON PLAN.
 - SAWCUT LINE PER SHEET D-1.
 - RELOCATE EXISTING TRAFFIC SIGN AS SHOWN.
 - CONSTRUCT TYPE G CURB AND GUTTER PER RSD SDG-151. TRANSITION FROM 6" TO 0" CURB PER DETAIL E.
 - RELOCATE AND MODIFY EXISTING TRAFFIC SIGNAL AND APPURTENANCES PER ELECTRICAL SHEETS.
 - CONSTRUCT SIDEWALK UNDERDRAIN PER RSD D-27. ELEVATION PER PLAN.
 - NEW UTILITY VAULT TO BE CONSTRUCTED BY OTHERS.
 - CONSTRUCT B-1 CURB INLET PER RSD SDD-116. LENGTH PER PLAN.
 - CONNECT TO PRIVATE 18" RCP STORM DRAIN PIPE. CONTRACTOR TO MODIFY PIPE AS REQUIRED BY LOCATION OF NEW CURB INLET.
 - CONSTRUCT NEW STREET LIGHT STANDARD PER SDE-101. SEE ELECTRICAL SHEETS FOR DETAILS.

STORM DRAIN DATA TABLE				
DELTA / BEARING	RADIUS	LENGTH	DESCRIPTION	
1	S 1° 56' 45" E	-	13.89'	14"x23" RCP (2000-D)

CURB DATA TABLE				
DELTA / BEARING	RADIUS	LENGTH	DESCRIPTION	
1	N 1° 42' 11" W	-	4.66'	TYPE 'G' C&G
2	Δ = 88° 3' 50"	30.00'	46.11'	TYPE 'G' C&G
3	S 89° 46' 1" E	-	380.82'	TYPE 'G' C&G

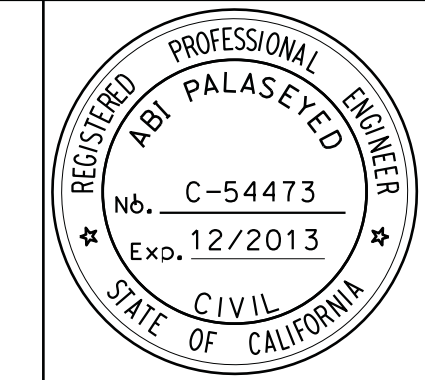
- ### GENERAL NOTES
- CONTRACTOR SHALL OBTAIN NECESSARY CLEARANCE AND ANY REQUIRED PERMITS FROM PROPERTY OWNER(S) BEFORE COMMENCING ANY PORTION OF WORK OUTSIDE OF THE CITY OF SAN DIEGO RIGHT-OF-WAY.
 - IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVED PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT IT SHALL BE REPAIRED OR REPLACED IN KIND.



WARNING

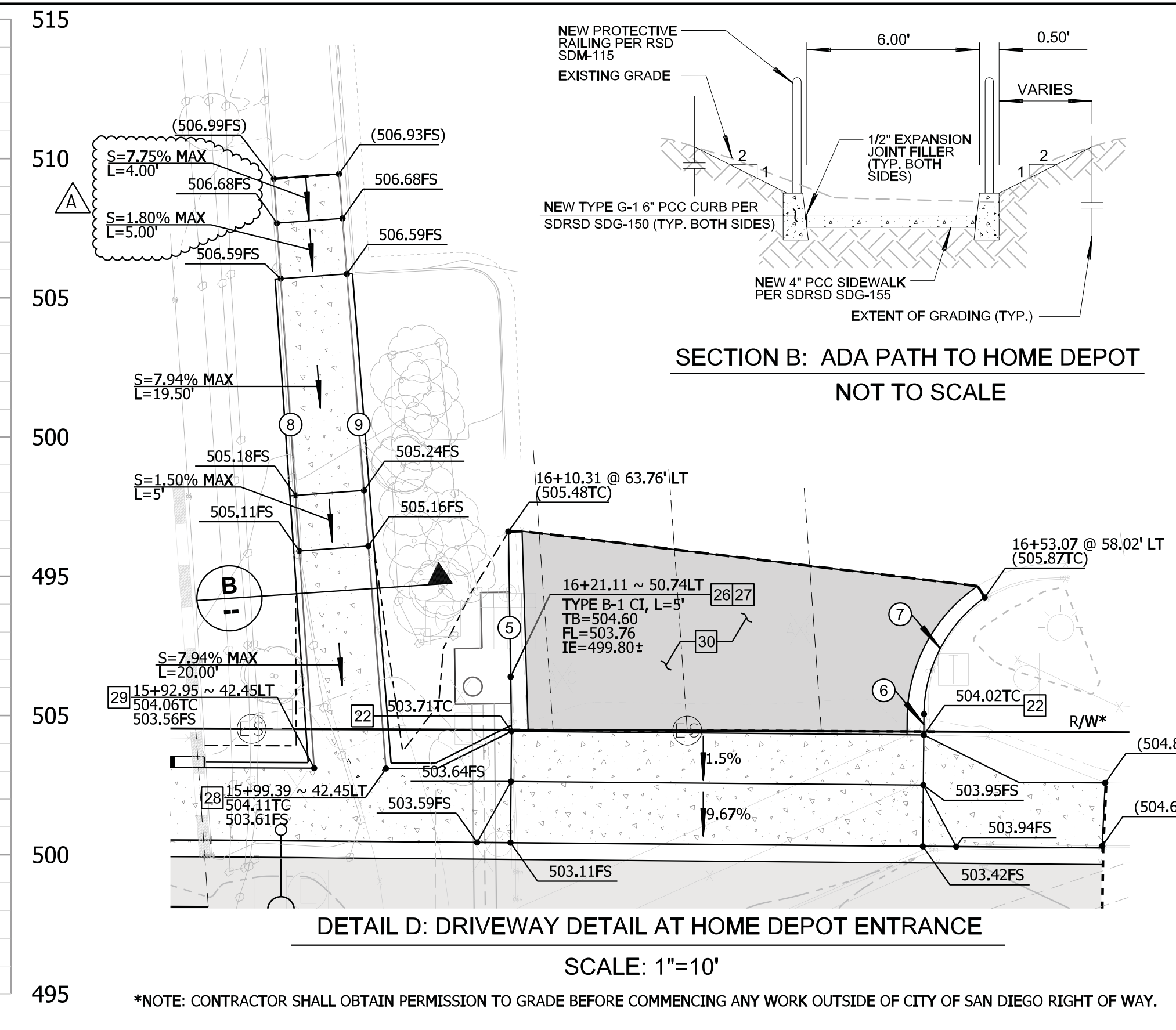
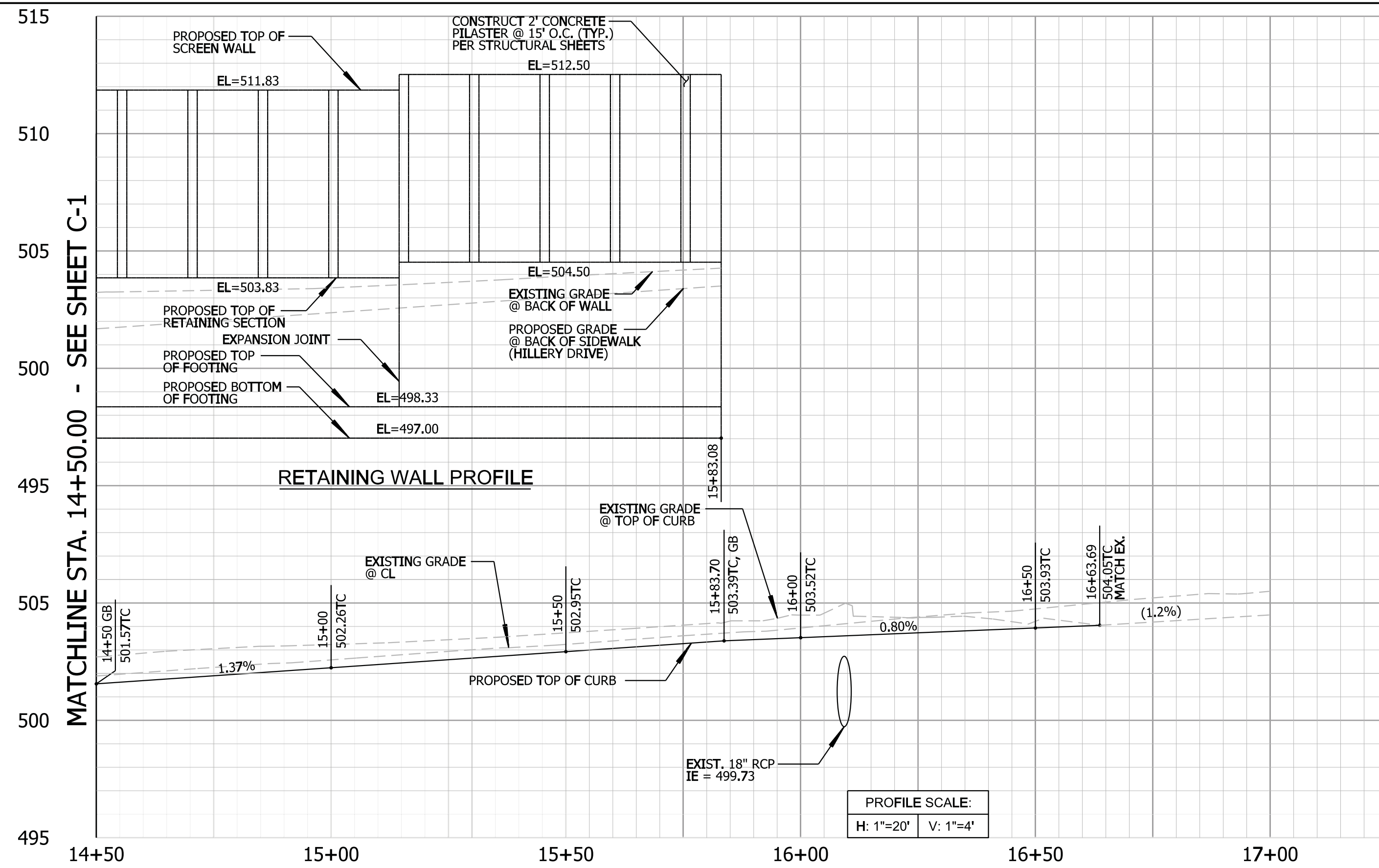
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CITY OF SAN DIEGO PUBLIC WORKS PROJECT



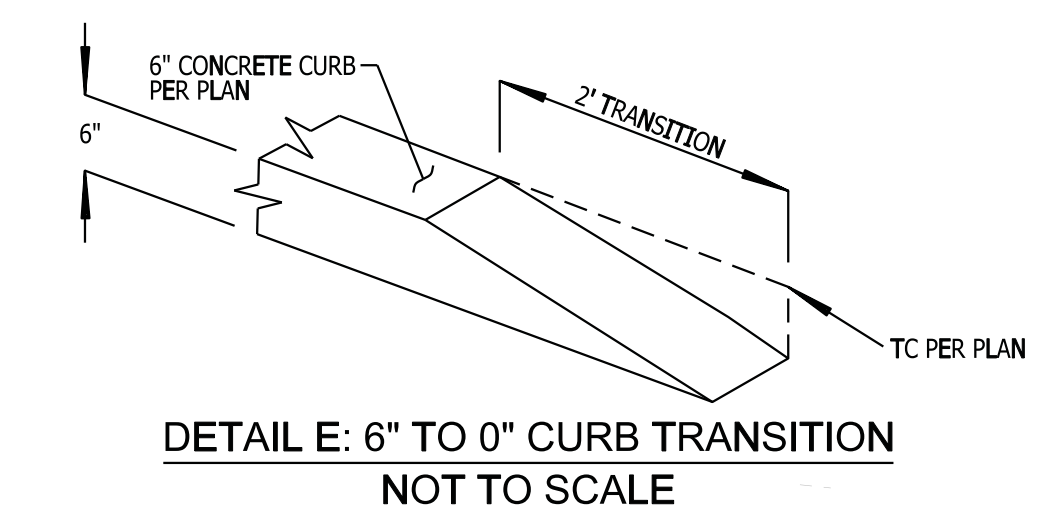
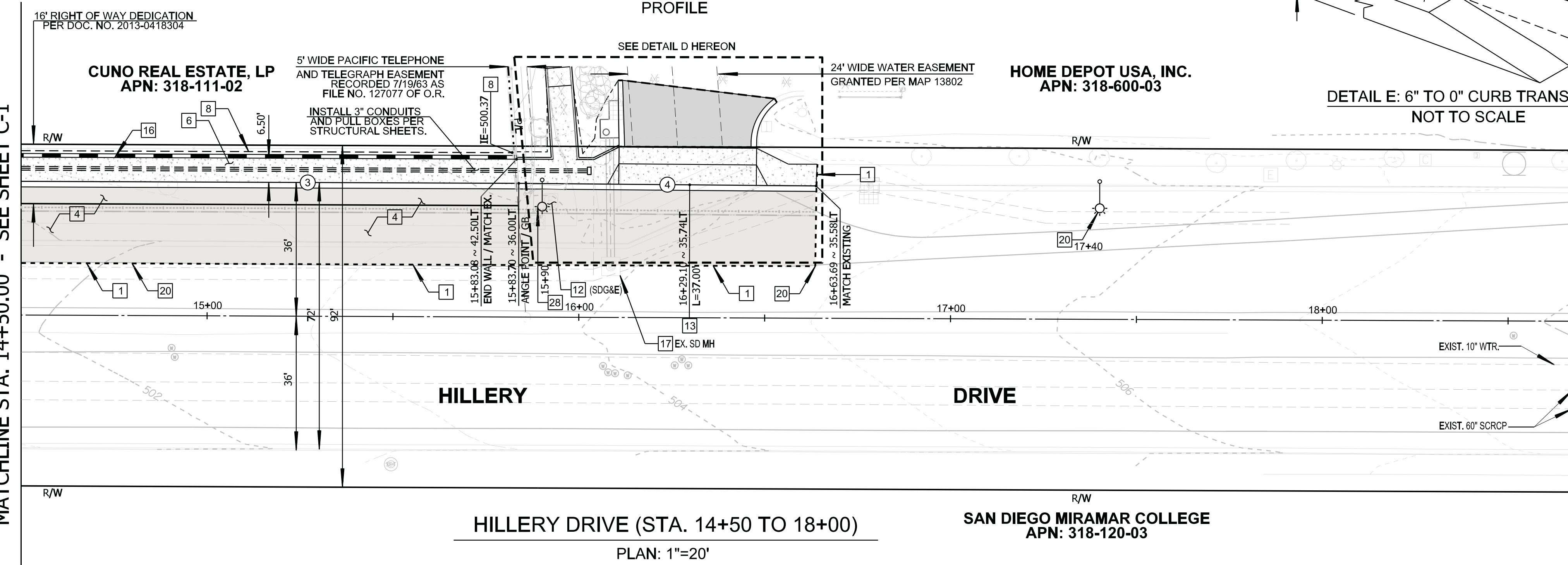
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 4 OF 23 SHEETS		WBS S-11064
APPROVED FOR CITY ENGINEER A. PALASEYED DATE: 12/20/13	SUBMITTED BY J. MANCHESTER PROJECT MANAGER	
DESIGNATION ORIGINAL	BY JRM	APPROVED DATE 12/20/13
PROJECT ENGINEER	B. OLSON	270-1731
CONTRACTOR	DATE STARTED	1910444-6292407
INSPECTOR	DATE COMPLETED	CCS27 COORDINATE
		CCS83 COORDINATE
		36647-04-D

HILLERY DRIVE IMPROVEMENTS



- CONSTRUCTION NOTES**
- MATCH EXISTING.
 - ADJUST EXISTING UTILITY TO GRADE (BY OTHERS).
 - ADJUST EXISTING VALVE TO GRADE.
 - CONSTRUCT 0.15' CRUMAC-GG-B, 0.35' HMA, 1.55' CTB STREET SECTION. SEE DETAIL G, SHEET G-2.
 - CONSTRUCT 6" PCC CURB AND GUTTER PER RSD SDG-151.
 - CONSTRUCT 4" PCC SIDEWALK PER RSD SDG-155.
 - CONSTRUCT STREET LIGHT PER RSD SDE-101.
 - INSTALL RETAINING WALL SUB-DRAIN. INVERT ELEVATION DENOTED ON PLAN. SEE STRUCTURAL SHEETS FOR DETAILS. CONSTRUCT MODIFIED TYPE C-1 CURB RAMP PER DETAIL A, SHEET G-2.
 - CONSTRUCT CURB INLET PER DETAIL F, SHEET G-2.
 - CONSTRUCT TYPE A-5 CLEANOUT PER RSD D-9.
 - CONNECT TO EXISTING STORM DRAIN SYSTEM.
 - CONSTRUCT NEW PCC DRIVEWAY PER RSD SDG-159. LENGTH PER PLAN.
 - CONSTRUCT NEW FIRE HYDRANT ASSEMBLY PER RSD SDW-104 PROFILE HEREON.
 - INSTALL 14"x23" ELLIPTICAL RCP STORM DRAIN (2000-D). SEE LINE 'A' PROFILE HEREON.
 - CONSTRUCT RETAINING WALL PER STRUCTURAL SHEETS. WALL PROFILE SHOWN HEREON.
 - PROTECT IN PLACE. IMPROVEMENT NOTED ON PLAN.
 - REMOVE EXISTING LANDSCAPING AND CAP IRRIGATION SERVICES AS REQUIRED.
 - ADJUST EXISTING UTILITY TO FINISH GRADE. EXISTING TYPE AND LOCATION NOTED ON PLAN.
 - SAWCUT LINE PER SHEET D-1.
 - RELOCATE EXISTING TRAFFIC SIGN AS SHOWN.
 - CONSTRUCT TYPE G CURB AND GUTTER PER RSD SDG-151. TRANSITION FROM 6" TO 0" CURB PER DETAIL E.
 - RELOCATE AND MODIFY EXISTING TRAFFIC SIGNAL AND APPURTENANCES PER ELECTRICAL SHEETS.
 - CONSTRUCT SIDEWALK UNDERDRAIN PER RSD D-27. ELEVATION PER PLAN.
 - NEW UTILITY VAULT TO BE CONSTRUCTED BY OTHERS.
 - CONSTRUCT B-1 CURB INLET PER RSD SDD-116. LENGTH PER PLAN.
 - CONNECT TO PRIVATE 18" RCP STORM DRAIN PIPE. CONTRACTOR TO MODIFY PIPE AS REQUIRED BY LOCATION OF NEW CURB INLET.
 - CONSTRUCT NEW STREET LIGHT STANDARD PER SDE-101. SEE ELECTRICAL SHEETS FOR DETAILS.
 - CONSTRUCT 6" PCC CURB PER RSD SDG-150
 - CONSTRUCT SCHEDULE J PAVING PER RSD SDG-113.

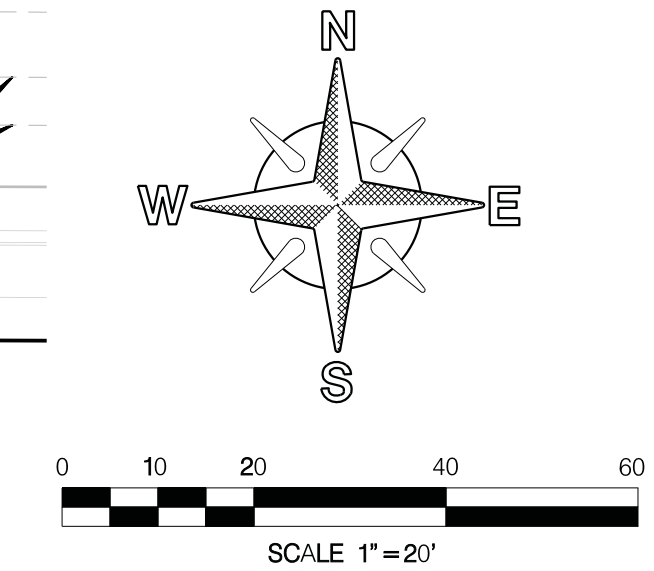
HILLERY DRIVE (STA. 14+50 TO 17+00)
PROFILE



CURB DATA TABLE

Δ	DELTA / BEARING	RADIUS	LENGTH	DESCRIPTION
3	S 89° 46' 1" E	-	213.69'	TYPE 'G' C&G
4	S 89° 30' 8" E	-	80.00'	TYPE 'G' C&G
5	S 0° 50' 59" E	-	17.94'	TYPE 'G' C&G
6	S 0° 29' 52" W	-	1.87'	TYPE 'G' C&G
7	Δ = 54° 1' 17"	13.0'	12.26'	TYPE 'G' C&G
8	S 3° 54' 35" E	-	44.04'	TYPE 'G-1' C&G
9	S 4° 30' 50" E	-	44.54'	TYPE 'G-1' C&G

- GENERAL NOTES**
- CONTRACTOR SHALL OBTAIN NECESSARY CLEARANCE AND ANY REQUIRED PERMITS FROM PROPERTY OWNER(S) BEFORE COMMENCING ANY PORTION OF WORK OUTSIDE OF THE CITY OF SAN DIEGO RIGHT-OF-WAY.
 - IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVED PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT IT SHALL BE REPAIRED OR REPLACED IN KIND.

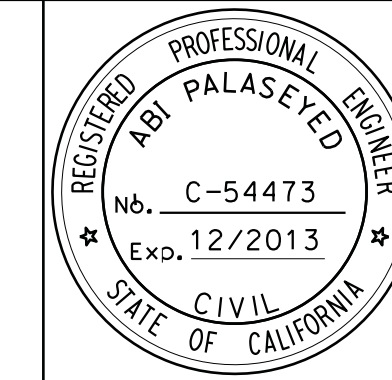


PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS IMPROVEMENT PLAN

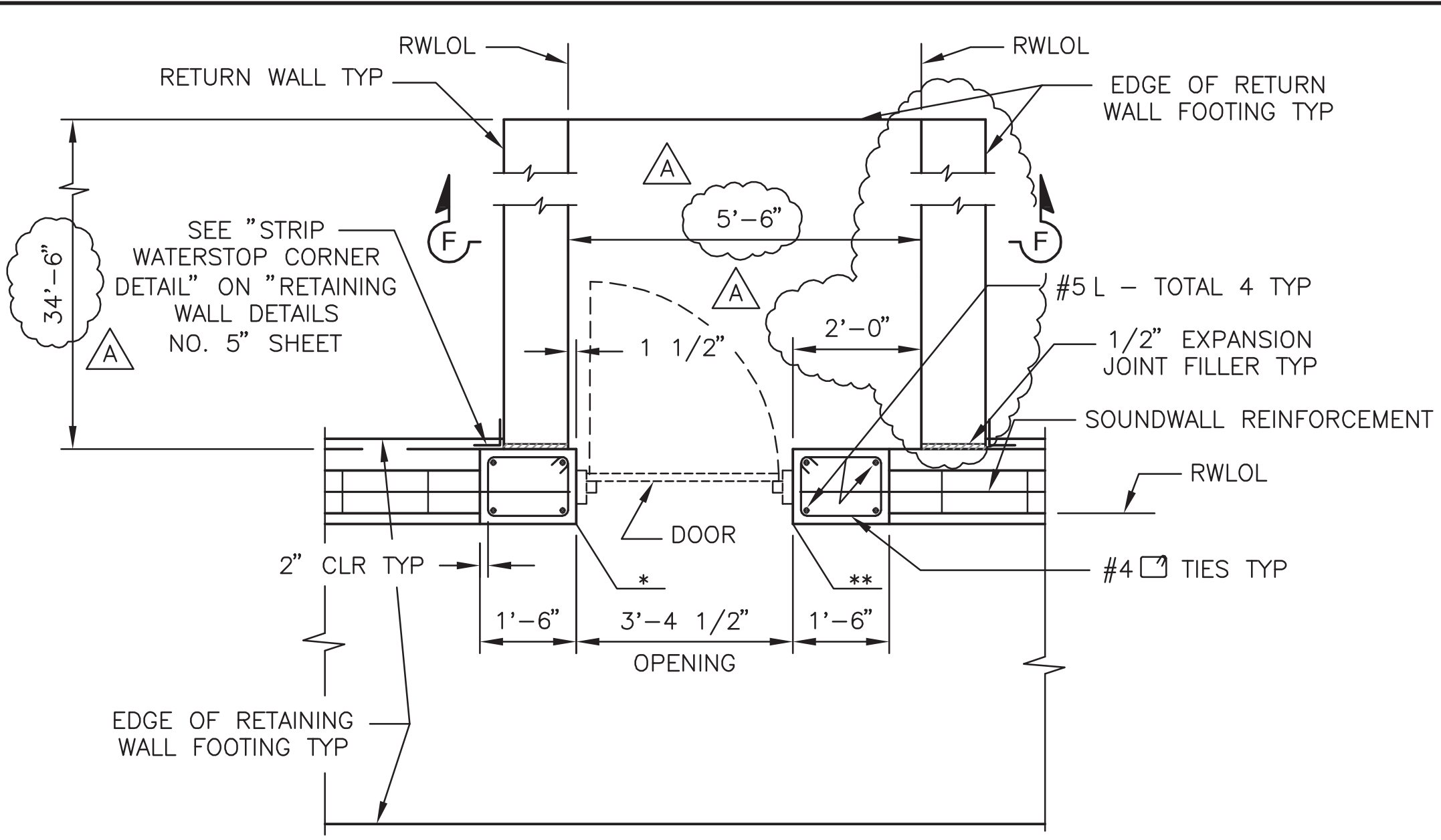
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 4 OF 23 SHEETS		WBS <u>S-11064</u>
APPROVED FOR CITY ENGINEER <i>Abi Palaseyed</i> DATE: <u>12/20/13</u>	SUBMITTED BY J. MANCHESTER PROJECT MANAGER	
DESIGNER DCE NAME: <u>Abi Palaseyed</u>	PROJECT ENGINEER B. OLSON	
DESCRIPTION	BY	APPROVED
ORIGINAL	JRM	AP
DATE	DATE	FILED
CONTRACTOR	DATE STARTED	DATE COMPLETED

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

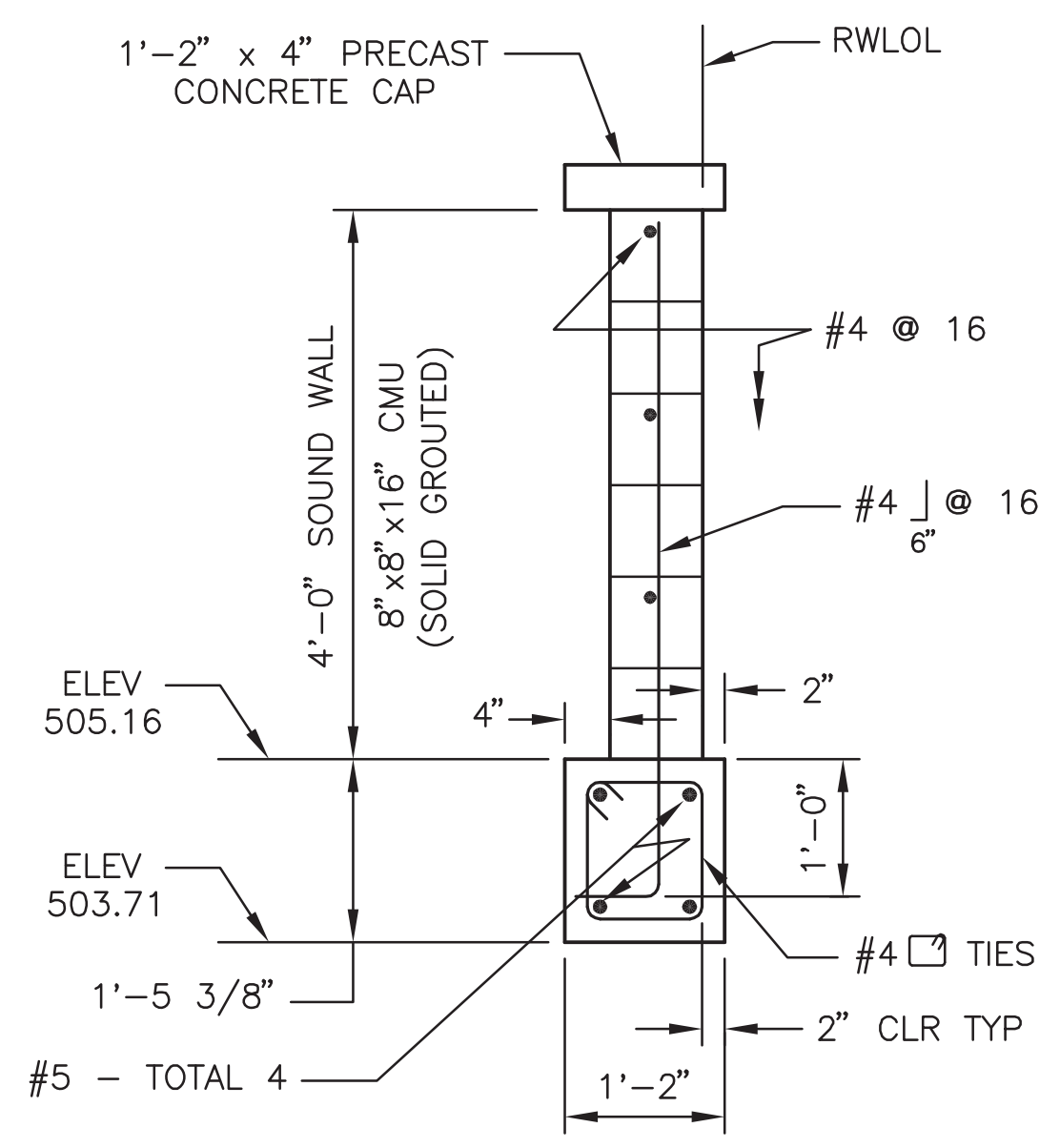
CITY OF SAN DIEGO PUBLIC WORKS PROJECT



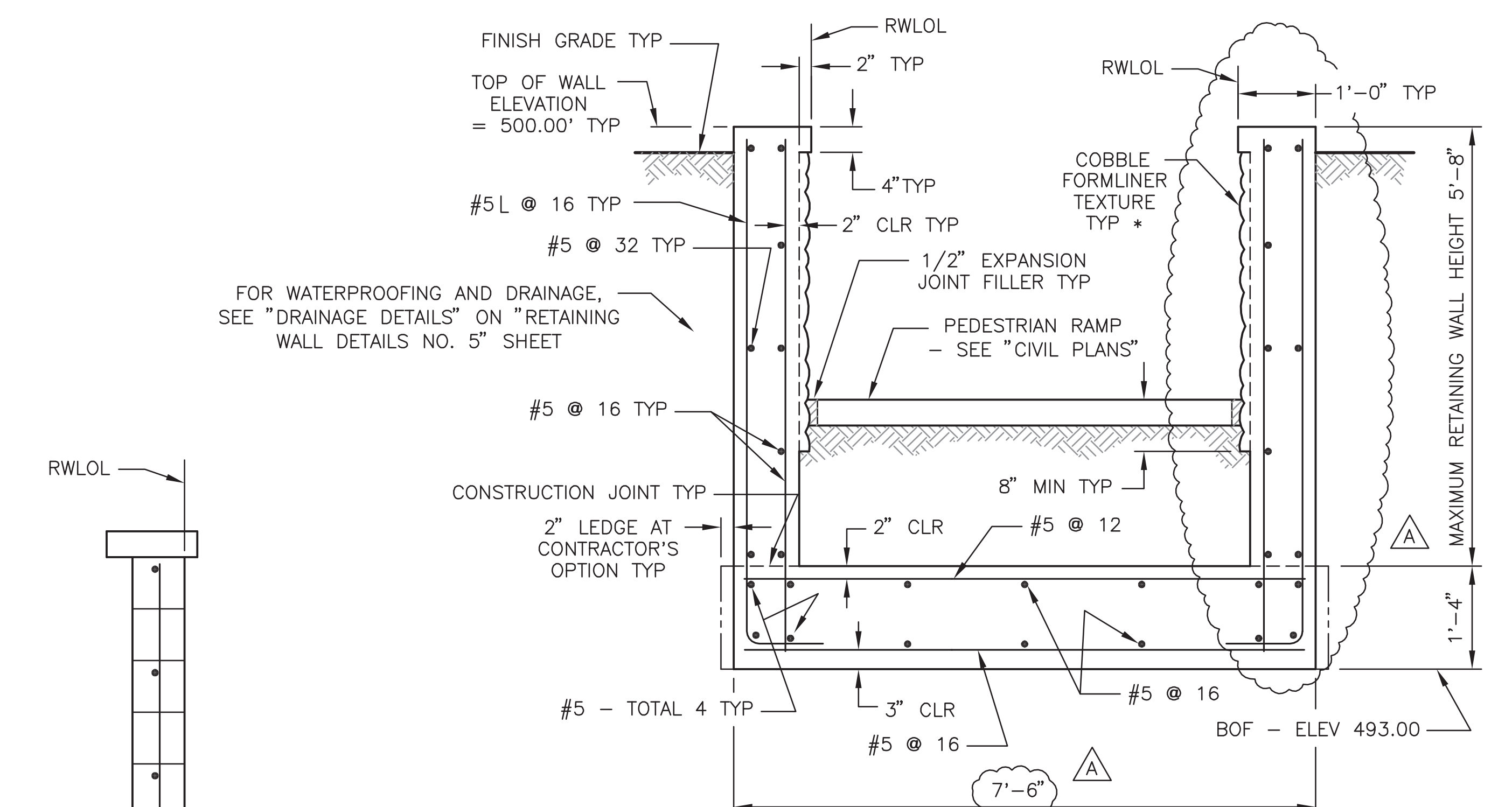
HILLERY DRIVE IMPROVEMENTS



SECTION C-C
1/2" = 1'-0"
* - END WALL STA 11+57.31
** - BEGIN WALL STA 11+60.68

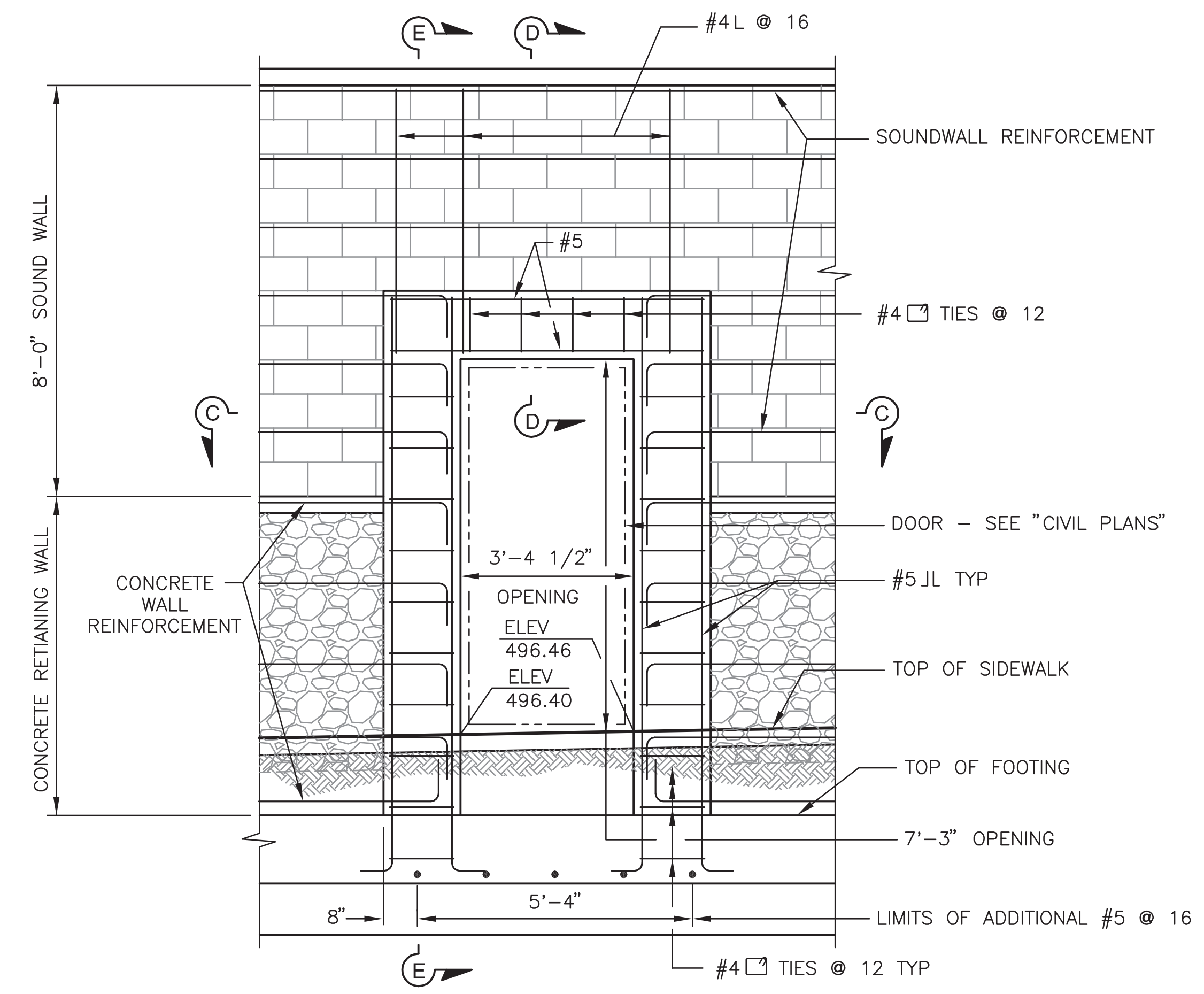


SECTION D-D
3/4" = 1'-0"

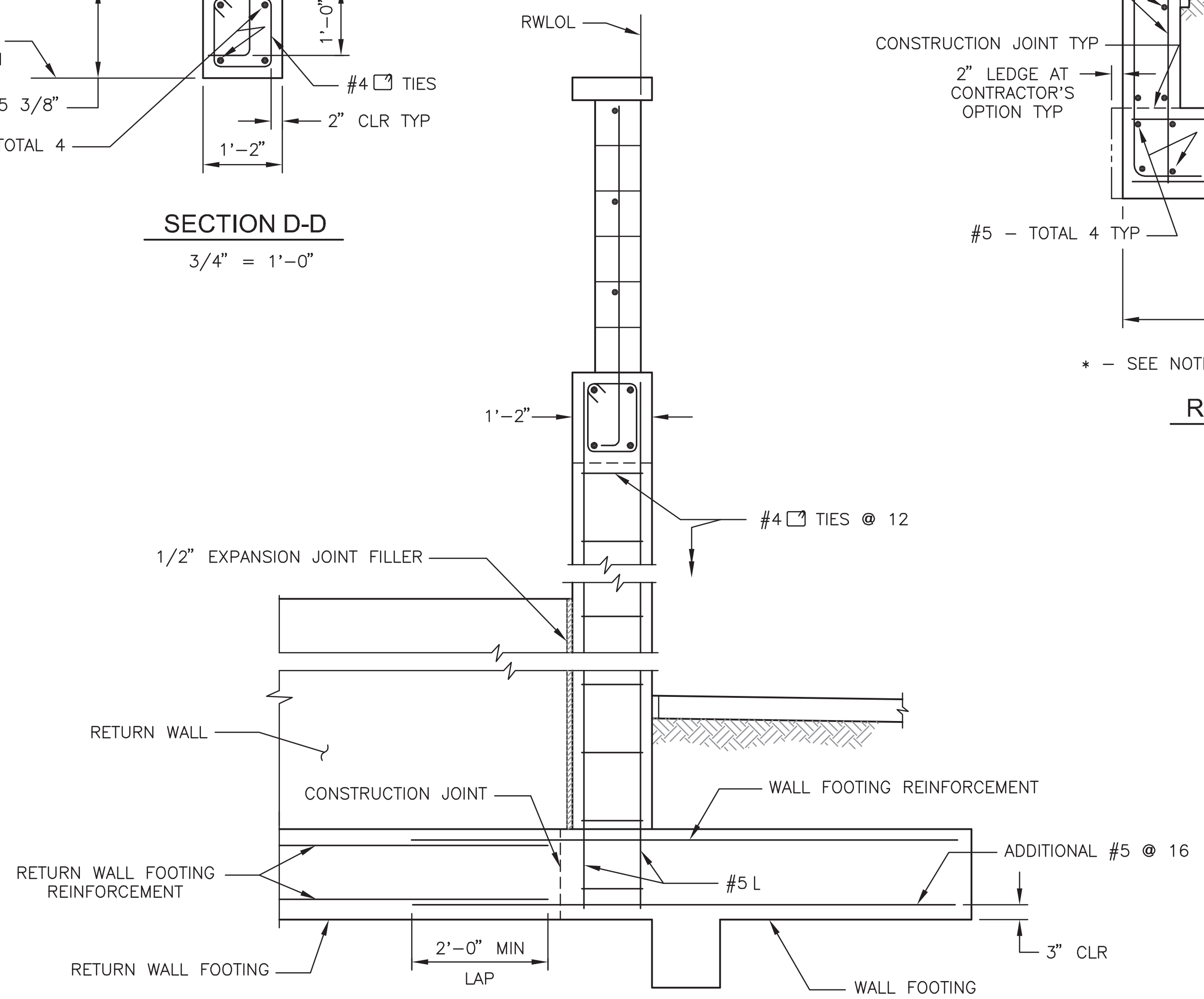


* - SEE NOTE 4 ON "RETAINING WALL DETAILS NO. 1" SHEET.

RETURN WALL - SECTION F-F
3/4" = 1'-0"



ELEVATION - ADA PATH TO VILLAGE PARK
1/2" = 1'-0"



NOTE: FOR INFORMATION NOT SHOWN, SEE "SECTION D-D".

SECTION E-E
3/4" = 1'-0"

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO PUBLIC WORKS PROJECT

SIMON WONG ENGINEERING
9968 Hibert Street, Second Floor
San Diego, CA 92131 (858) 566-3113

Job: 500-922

DATE: 7/22/13
R.C.E. NO. 68491

PREPARED BY: PAUL A. MOREL
REGISTRATION EXPIRES: 09/30/13

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS RETAINING WALL DETAILS NO. 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 17 OF 23 SHEETS

WBS S-11064

APPROVED: *Abi Palaseyed* FOR CITY ENGINEER
DATE: 12/20/13

SUBMITTED BY: J. MANCHESTER
PROJECT MANAGER

B. OLSON
PROJECT ENGINEER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SWE			
	SWE	AP	12/24/13	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

270-1731
CCS87 COORDINATE
1910444-6292407
CCS83 COORDINATE
36647-17-D

City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
CITY CONTACT: Clementina Giordano - Contract Specialist, Email: CGiordano@saniego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633



ADDENDUM "B"

FOR

HILLERY DRIVE IMPROVEMENTS

BID NO.: _____ K-14-5962-DBB-3
SAP NO. (WBS/IO/CC): _____ S-11064
CLIENT DEPARTMENT: _____ 2116
COUNCIL DISTRICT: _____ 5
PROJECT TYPE: _____ ID

BID DUE DATE:

**2:00 PM
JANUARY 14, 2014
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE, 14th FLOOR, MS 614C
SAN DIEGO, CA 92101**

A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

B. ADDENDUM A

1. To Item B, VOLUME 1, page 3, Sub-item 2, **DELETE** “pages 4 of 41 through 30 of 41” and **SUBSTITUTE** with pages 3 of 29 through 29 of 29 of this Addendum.

Tony Heinrichs, Director
Public Works Department

Dated: *January 3, 2014*
San Diego, California

TH/BD/ld/egz

2. WAGE RATES. This contract shall be subject to the following Davis-Bacon Wage Decisions:

General Decision Number: CA140001 01/03/2014 CA1

Superseded General Decision Number: CA20130001

State: California

Construction Types: Building, Heavy (Heavy and Dredging),
Highway and Residential

County: San Diego County in California.

BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS; RESIDENTIAL CONSTRUCTION PROJECTS (consisting of single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	01/03/2014

ASBE0005-002 07/01/2013

	Rates	Fringes
Asbestos Workers/Insulator (Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems).....	\$ 34.51	18.55
Fire Stop Technician (Application of Firestopping Materials for wall openings and penetrations in walls, floors, ceilings and curtain walls).....	\$ 24.34	16.09

ASBE0005-004 06/24/2013

	Rates	Fringes
Asbestos Removal worker/hazardous material handler (Includes preparation, wetting, stripping, removal, scrapping, vacuuming, bagging and disposing of all insulation materials from mechanical systems, whether they contain asbestos or not)....	\$ 16.95	10.23

BOIL0092-003 10/01/2012

	Rates	Fringes
BOILERMAKER.....	\$ 41.17	28.27

BRCA0004-008 11/01/2012

	Rates	Fringes
BRICKLAYER; MARBLE SETTER.....	\$ 33.75	14.55

BRCA0018-004 06/01/2012

	Rates	Fringes
MARBLE FINISHER.....	\$ 27.04	10.66
TILE FINISHER.....	\$ 22.37	9.19
TILE LAYER.....	\$ 33.55	13.55

BRCA0018-010 09/01/2011

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 26.59	9.62

TERRAZZO WORKER/SETTER.....\$ 33.63 10.46

CARP0409-002 07/01/2008

	Rates	Fringes
Diver		
(1) Wet.....	\$ 663.68	9.82
(2) Standby.....	\$ 331.84	9.82
(3) Tender.....	\$ 323.84	9.82
(4) Assistant Tender.....	\$ 299.84	9.82

Amounts in "Rates" column are per day

CARP0409-008 08/01/2010

	Rates	Fringes
Modular Furniture Installer.....	\$ 17.00	7.41

CARP0547-001 07/01/2009

	Rates	Fringes
CARPENTER		
(1) Bridge.....	\$ 37.28	10.58
(2) Commercial Building....	\$ 32.30	10.58
(3) Heavy & Highway.....	\$ 37.15	10.58
(4) Residential Carpenter..	\$ 25.84	10.58
(5) Residential Insulation Installer.....	\$ 18.00	8.16
MILLWRIGHT.....	\$ 37.65	10.58
PILEDRIVERMAN.....	\$ 37.28	10.58

CARP0547-002 07/01/2009

	Rates	Fringes
Drywall		
(1) Work on wood framed construction of single family residences, apartments or condominiums under four stories		
Drywall Installer/Lather...	\$ 21.00	8.58
Drywall Stocker/Scrapper...	\$ 11.00	6.67
(2) All other work		
Drywall Installer/Lather...	\$ 27.35	9.58
Drywall Stocker/Scrapper...	\$ 11.00	6.67

ELEC0569-001 06/03/2013

	Rates	Fringes
Electricians (Tunnel Work)		
Cable Splicer.....	\$ 43.78	3%+11.87
Electrician.....	\$ 43.03	3%+11.87

Electricians: (All Other Work, Including 4 Stories Residential)

Cable Splicer.....	\$ 39.00	3%+11.87
Electrician.....	\$ 38.25	3%+11.87

 ELEC0569-005 12/01/2012

	Rates	Fringes
Sound & Communications		
Sound Technician.....	\$ 27.57	3%+10.81
Soundman.....	\$ 22.06	3%+9.17

SOUND TECHNICIAN: Terminating, operating and performing final check-out

SOUNDMAN: Wire-pulling, splicing, assembling and installing devices

SCOPE OF WORK Assembly, installation, operation, service and maintenance of components or systems as used in closed circuit television, amplified master television distribution, CATV on private property, intercommunication, burglar alarm, fire alarm, life support and all security alarms, private and public telephone and related telephone interconnect, public address, paging, audio, language, electronic, background music system less than line voltage or any system acceptable for class two wiring for private, commercial, or industrial use furnished by leased wire, frequency modulation or other recording devices, electrical apparatus by means of which electricity is applied to the amplification, transmission, transference, recording or reproduction of voice, music, sound, impulses and video. Excluded from this Scope of Work - transmission, service and maintenance of background music. All of the above shall include the installation and transmission over fiber optics.

 ELEC0569-006 10/17/2013

Work on street lighting; traffic signals; and underground systems and/or established easements outside of buildings

	Rates	Fringes
Traffic signal, street light and underground work		
Utility Technician #1.....	\$ 28.00	3%+7.42
Utility Technician #2.....	\$ 23.15	3%+7.42

STREET LIGHT & TRAFFIC SIGNAL WORK:

UTILITY TECHNICIAN #1: Installation of street lights and traffic signals, including electrical circuitry,

programmable controller, pedestal-mounted electrical meter enclosures and laying of pre-assembled cable in ducts. The layout of electrical systems and communication installation including proper position of trench depths, and radius at duct banks, location for manholes, street lights and traffic signals.

UTILITY TECHNICIAN #2: Distribution of material at jobsite, installation of underground ducts for electrical, telephone, cable TV land communication systems. The setting, leveling, grounding and racking of precast manholes, handholes and transformer pads.

 ELEC0569-008 06/03/2013

	Rates	Fringes
ELECTRICIAN (Residential, 1-3 Stories).....	\$ 22.37	3%+3.30

 ELEC1245-001 06/01/2013

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 50.30	15.00
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 40.17	14.56
(3) Groundman.....	\$ 30.73	13.48
(4) Powderman.....	\$ 44.91	13.48

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day

 ELEV0018-001 01/01/2013

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 48.23	25.185

FOOTNOTE:

PAID VACATION: Employer contributes 8% of regular hourly rate as vacation pay credit for employees with more than 5 years of service, and 6% for 6 months to 5 years of service.
 PAID HOLIDAYS: New Years Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Friday after Thanksgiving, and Christmas Day.

	Rates	Fringes
OPERATOR: Power Equipment (All Other Work)		
GROUP 1.....	\$ 38.20	21.10
GROUP 2.....	\$ 38.98	21.10
GROUP 3.....	\$ 39.27	21.10
GROUP 4.....	\$ 40.76	21.10
GROUP 5.....	\$ 41.86	21.10
GROUP 6.....	\$ 40.98	21.10
GROUP 8.....	\$ 41.09	21.10
GROUP 9.....	\$ 42.19	21.10
GROUP 10.....	\$ 41.21	21.10
GROUP 11.....	\$ 42.31	21.10
GROUP 12.....	\$ 41.38	21.10
GROUP 13.....	\$ 41.48	21.10
GROUP 14.....	\$ 41.51	21.10
GROUP 15.....	\$ 41.59	21.10
GROUP 16.....	\$ 41.71	21.10
GROUP 17.....	\$ 41.88	21.10
GROUP 18.....	\$ 41.98	21.10
GROUP 19.....	\$ 42.09	21.10
GROUP 20.....	\$ 42.21	21.10
GROUP 21.....	\$ 42.38	21.10
GROUP 22.....	\$ 42.48	21.10
GROUP 23.....	\$ 42.59	21.10
GROUP 24.....	\$ 42.71	21.10
GROUP 25.....	\$ 42.88	21.10
OPERATOR: Power Equipment (Cranes, Piledriving & Hoisting)		
GROUP 1.....	\$ 39.55	21.10
GROUP 2.....	\$ 40.33	21.10
GROUP 3.....	\$ 40.62	21.10
GROUP 4.....	\$ 40.76	21.10
GROUP 5.....	\$ 40.98	21.10
GROUP 6.....	\$ 41.09	21.10
GROUP 7.....	\$ 41.21	21.10
GROUP 8.....	\$ 41.38	21.10
GROUP 9.....	\$ 41.55	21.10
GROUP 10.....	\$ 42.55	21.10
GROUP 11.....	\$ 43.55	21.10
GROUP 12.....	\$ 44.55	21.10
GROUP 13.....	\$ 45.55	21.10
OPERATOR: Power Equipment (Tunnel Work)		
GROUP 1.....	\$ 40.05	21.10
GROUP 2.....	\$ 40.83	21.10
GROUP 3.....	\$ 41.12	21.10
GROUP 4.....	\$ 41.26	21.10
GROUP 5.....	\$ 41.48	21.10
GROUP 6.....	\$ 41.59	21.10
GROUP 7.....	\$ 41.71	21.10

PREMIUM PAY:

\$3.75 per hour shall be paid on all Power Equipment Operator work on the following Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator); Concrete mixer operator-skip type; Conveyor operator; Fireman; Forklift operator (includes loed, lull or similar types over 5 tons; Hydrostatic pump operator; oiler crusher (asphalt or concrete plant); Petromat laydown machine; PJU side dum jack; Screening and conveyor machine operator (or similar types); Skiploader (wheel type up to 3/4 yd. without attachment); Tar pot fireman; Temporary heating plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types - drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

GROUP 6: Articulating material hauler; Asphalt plant engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter (concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator; Backhoe operator (up to and including 3/4 yd.), small ford, Case or similar; Cast-in-place pipe laying machine operator; Combination mixer and compressor operator (guniting work); Compactor operator (self-propelled); Concrete mixer operator (paving); Crushing plant operator; Drill Doctor; Drilling machine operator, Bucket or auger types (Calweld 150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types - drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck);

Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Self-propelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bending machine operator; Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine,

up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator; Remote-control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional); Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck); Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units -

multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator

GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck); Slip form pump operator (power-driven hydraulic lifting device for concrete forms); Tugger hoist operator (1 drum); Tunnel locomotive operator (over 10 and up to and including 30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.); Small Ford, Case or similar; Drill doctor; Grouting machine operator; Heading shield operator; Heavy-duty repairperson; Loader operator (Athey, Euclid, Sierra and similar types); Mucking machine operator (1/4 yd., rubber-tired, rail or track type); Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pneumatic heading shield (tunnel); Pumpcrete gun operator; Tractor compressor drill combination operator; Tugger hoist operator (2 drum); Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest quarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1S, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state

line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM. Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point which is the SW corner of Section 34, T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a thin strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along

the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

 * ENGI0012-004 08/05/2013

	Rates	Fringes
OPERATOR: Power Equipment		
(DREDGING)		
(1) Leverman.....	\$ 47.70	21.20
(2) Dredge dozer.....	\$ 41.73	21.20
(3) Deckmate.....	\$ 41.62	21.20
(4) Winch operator (stern winch on dredge).....	\$ 41.07	21.20
(5) Fireman-Oiler, Deckhand, Bargeman, Leveehand.....	\$ 40.53	21.20
(6) Barge Mate.....	\$ 41.14	21.20

 IRON0377-002 07/01/2013

	Rates	Fringes
Ironworkers:		
Fence Erector.....	\$ 26.58	17.74
Ornamental, Reinforcing and Structural.....	\$ 33.00	26.30

PREMIUM PAY:

\$6.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval Reserve-Niland, Edwards AFB, Fort Irwin Military Station, Fort Irwin Training Center-Goldstone, San Clemente Island, San Nicholas Island, Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

 LABO0089-001 07/01/2013

	Rates	Fringes
LABORER (BUILDING and all other Residential Construction)		
Group 1.....	\$ 26.98	15.42
Group 2.....	\$ 27.66	15.42
Group 3.....	\$ 28.37	15.42
Group 4.....	\$ 29.17	15.42
Group 5.....	\$ 31.10	15.42
LABORER (RESIDENTIAL CONSTRUCTION - See definition below)		
(1) Laborer.....	\$ 24.88	13.75
(2) Cleanup, Landscape, Fencing (Chain Link & Wood).....	\$ 23.59	13.75

RESIDENTIAL DEFINITION: Wood or metal frame construction of single family residences, apartments and condominiums - excluding (a) projects that exceed three stories over a garage level, (b) any utility work such as telephone, gas, water, sewer and other utilities and (c) any fine grading work, utility work or paving work in the future street and public right-of-way; but including all rough grading work at the job site behind the existing right of way

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete Screeding for Rought Strike-off; Concrete, water curing; Demolition laborer; Flagman; Gas, oil and/or water pipeline laborer; General Laborer; General clean-up laborer; Landscape laborer; Jetting laborer; Temporary water and air lines laborer; Material hoseman (walls, slabs, floors and decks); Plugging, filling of Shee-bolt holes; Dry packing of concrete; Railroad maintenance, Repair Trackman and road beds, Streetcar and railroad construction trac laborers; Slip form raisers; Slurry seal crews (mixer operator, applicator operator, squeegee man, Shuttle man, top man), filling of cracks by any method on any surface; Tarman and mortar man; Tool crib or tool house laborer; Window cleaner; Wire Mesh puling-all concrete pouring operations

GROUP 2: Asphalt Shoveler; Cement Dumper (on 1 yard or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute man, pouring concrete, the handling of the cute from ready mix trucks, such as walls, slabs, decks, floors, foundations, footings, curbs, gutters and sidewalks; Concrete curer-impervious membrane and form

oiler; Cutting torch operator (demolition); Guinea chaser; Headboard man-asphalt; Laborer, packing rod steel and pans; membrane vapor barrier installer; Power broom sweepers (small); Rii-prap, stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Tank sealer and cleaner; Tree climber, faller, chain saw operator, Pittsburgh Chipper and similar type brush shredders; Underground laborers, including caisson bellower

GROUP 3: Buggymobile; Concrete cutting torch; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2 1/2 feet drill steel or longer; Dri Pak-it machine; High sealer (including drilling of same); Hydro seeder and similar type; Impact wrench, multi-plate; Kettlemen, potmen and men applying asphalt, lay-kold, creosote, line caustic and similar type materials (applying means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operators of pneumatic, gas, electric tools, vibrating machines, pavement breakers, air blasting, come-along, and similar mechanical tools not separately classified herein; Pipelayers back up man coating, grouting, making of joints, sealing, caulking, diapering and including rubber gasket joints, pointing and any and all other services; Rotary Scarifier or multiple head concrete chipping scarifier; Steel header board man and guideline setter; Tampers, Barko, Wacker and similar type; Trenching machine, handpropelled

GROUP 4: Asphalt raker, luterman, ironer, asphalt dumpman and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), Grinder or sander; Concrete saw man; cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Laser beam in connection with laborer's work; Oversize concrete vibrator operator 70 pounds and over; Pipelayer performing all services in the laying, installation and all forms of connection of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit, and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid, gas, air or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzleman), Porta shot-blast, water blasting

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Driller-all power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power.

LABO0089-002 11/01/2012

	Rates	Fringes
LABORER (MASON TENDER).....	\$ 27.98	13.39

LABO0089-004 07/01/2013

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
Laborers:		
Group 1.....	\$ 26.98	15.42
Group 2.....	\$ 27.66	15.42
Group 3.....	\$ 28.37	15.42
Group 4.....	\$ 29.17	15.42
Group 5.....	\$ 31.10	15.42

LABORER CLASSIFICATIONS

GROUP 1: Laborer: General or Construction Laborer, Landscape Laborer. Asphalt Rubber Material Loader. Boring Machine Tender (outside), Carpenter Laborer (cleaning, handling, oiling & blowing of panel forms and lumber), Concrete Laborer, Concrete Screeding for rough strike-off, Concrete water curing. Concrete Curb & Gutter laborer, Certified Confined Space Laborer, Demolition laborer & Cleaning of Brick and lumber, Expansion Joint Caulking; Environmental Remediation, Monitoring Well, Toxic waste and Geotechnical Drill tender, Fine Grader, Fire Watcher, Limbers, Brush Loader, Pilers and Debris Handlers. flagman. Gas Oil and Water Pipeline Laborer. Material Hoseman (slabs, walls, floors, decks); Plugging, filling of shee bolt holes; Dry packing of concrete and patching; Post Holer Digger (manual); Railroad maintenance, repair trackman, road beds; Rigging & signaling; Scaler, Slip-Form Raisers, Filling cracks on any surface, tool Crib or Tool House Laborer, Traffic control (signs, barriers, barricades, delineator, cones etc.), Window Cleaner

GROUP 2: Asphalt abatement; Buggymobile; Cement dumper (on 1 yd. or larger mixers and handling bulk cement); Concrete curer, impervious membrane and form oiler; Chute man, pouring concrete; Concrete cutting torch; Concrete pile cutter; driller/Jackhammer, with drill steel 2 1/2 feet or longer; Dry pak-it machine; Fence erector; Pipeline wrapper, gas, oil, water, pot tender & form man; Grout man; Installation of all asphalt overlay fabric and materials used for reinforcing asphalt; Irrigation laborer; Kettleman-Potman hot mop, includes applying asphalt, lay-klold, creosote, lime caustic and similar tyhpes of materials (dipping, brushing, handling) and waterproofing; Membrane vapor barrier installer; Pipelayer backup man (coating, grouting, making of joints, sealing caulkiing, diapering including rubber basket joints, pointing);

Rotary scarifier, multiple head concrete chipper; Rock slinger; Roto scraper & tiller; Sandblaster pot tender; Septic tank digger/installer; Tamper/wacker operator; Tank scaler & cleaner; Tar man & mortar man; Tree climber/faller, chainb saw operator, Pittsburgh chipper & similar type brush shredders.

GROUP 3: Asphalt, installation of all frabrics; Buggy Mobile Man, Bushing hammer; Compactor (all types), Concrete Curer - Impervious membrane, Form Oiler, Concrete Cutting Torch, Concrete Pile Cutter, Driller/Jackhammer with drill steel 2 1/2 ft or longer, Dry Pak-it machine, Fence erector including manual post hole digging, Gas oil or water Pipeline Wrapper - 6 ft pipe and over, Guradrail erector, Hydro seeder, Impact Wrench man (multi plate), kettleman-Potman Hot Mop includes applying Asphalt, Lay-Kold, Creosote, lime caustic and similar types of materials (dipping, brushing or handling) and waterproofing. Laser Beam in connection with Laborer work. High Scaler, Operators of Pneumatic Gas or Electric Tools, Vibrating Machines, Pavement Breakers, Air Blasting, Come-Alongs and similar mechanical tools, Remote-Controlled Robotic Tools in connection with Laborers work. Pipelayer Backup Man (Coating, grouting, m makeing of joints, sealing, caulking, diapering including rubber gasket joints, pointing and other services). Power Post Hole Digger, Rotary Scarifier (multiple head concrete chipper scarifier), Rock Slinger, Shot Blast equipment (8 to 48 inches), Steel Headerboard Man and Guideline Setter, Tamper/Wacker operator and similar types, Trenching Machine hand propelled.

GROUP 4: Any worker exposed to raw sewage. Asphalt Raker, Luteman, Asphalt Dumpman, Asphalt Spreader Boxes, Concrete Core Cutter, Concrete Saw Man, Cribber, Shorer, Head Rock Slinger. Installation of subsurface instrumentation, monitoring wells or points, remediation system installer; Laborer, asphalt-rubber distributor bootman; Oversize concrete vibrator operators, 70 pounds or over. Pipelayer, Prfefabricated Manhole Installer, Sandblast Nozzleman (Water Balsting-Porta Shot Blast), Traffic Lane Closure.

GROUP 5: Blasters Powderman-All work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Horizontal directional driller, Boring system, Electronic traking, Driller: all power drills excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and all other types of mechanical drills without regard to form of motive power. Environmental remediation, Monitoring well, Toxic waste and Geotechnical driller, Toxic waste removal. Welding in connection with Laborer's work.

LAB00300-005 01/01/2013

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 27.35	14.95

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LABO1184-001 07/01/2013

	Rates	Fringes
Laborers: (HORIZONTAL DIRECTIONAL DRILLING)		
(1) Drilling Crew Laborer...	\$ 30.11	11.83
(2) Vehicle Operator/Hauler.	\$ 30.28	11.83
(3) Horizontal Directional Drill Operator.....	\$ 32.13	11.83
(4) Electronic Tracking Locator.....	\$ 34.13	11.83
Laborers: (STRIPING/SLURRY SEAL)		
GROUP 1.....	\$ 31.06	14.53
GROUP 2.....	\$ 32.36	14.53
GROUP 3.....	\$ 34.37	14.53
GROUP 4.....	\$ 36.11	14.53

LABORERS - STRIPING CLASSIFICATIONS

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades,

fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

LABO1414-003 08/07/2013

	Rates	Fringes
LABORER		
PLASTER CLEAN-UP LABORER....	\$ 27.45	16.36
PLASTER TENDER.....	\$ 30.00	16.36

Work on a swing stage scaffold: \$1.00 per hour additional.

Work at Military Bases - \$3.00 additional per hour:
 Coronado Naval Amphibious Base, Fort Irwin, Marine Corps Air Station-29 Palms, Imperial Beach Naval Air Station, Marine Corps Logistics Supply Base, Marine Corps Pickle Meadows, Mountain Warfare Training Center, Naval Air Facility-Seeley, North Island Naval Air Station, Vandenberg AFB.

PAIN0036-001 07/01/2013

	Rates	Fringes
Painters: (Including Lead Abatement)		
(1) Repaint (excludes San Diego County).....	\$ 26.49	11.73
(2) All Other Work.....	\$ 29.82	11.73

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-010 01/01/2013

	Rates	Fringes
DRYWALL FINISHER/TAPER		
(1) Building & Heavy Construction.....	\$ 25.08	13.19
(2) Residential Construction (Wood frame apartments, single family homes and multi-duplexes		

up to and including four
stories).....\$ 21.00 12.81

PAIN0036-012 10/01/2013

	Rates	Fringes
GLAZIER.....	\$ 38.80	17.25

PAIN0036-019 02/01/2009

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 26.77	11.75

PLAS0200-005 08/07/2013

	Rates	Fringes
PLASTERER.....	\$ 36.11	13.13

NORTH ISLAND NAVAL AIR STATION, COLORADO NAVAL AMPHIBIOUS
BASE, IMPERIAL BEACH NAVAL AIR STATION: \$3.00 additional
per hour.

PLAS0500-001 07/01/2013

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER		
GROUP 1.....	\$ 26.47	13.35
GROUP 2.....	\$ 28.12	13.35
GROUP 3.....	\$ 30.75	13.95

CEMENT MASONS - work inside the building line, meeting the
following criteria:

GROUP 1: Residential wood frame project of any size; work
classified as Type III, IV or Type V construction;
interior tenant improvement work regardless the size of the
project; any wood frame project of four stories or less.

GROUP 2: Work classified as type I and II construction

GROUP 3: All other work

PLUM0016-006 07/01/2013

	Rates	Fringes
PLUMBER, PIPEFITTER, STEAMFITTER		
Camp Pendleton.....	\$ 48.10	20.16
Plumber and Pipefitter All other work except		

work on new additions and remodeling of bars, restaurant, stores and commercial buildings not to exceed 5,000 sq. ft. of floor space and work on strip malls, light commercial, tenant improvement and remodel work.....	\$ 43.60	20.16
Work ONLY on new additions and remodeling of commercial buildings, bars, restaurants, and stores not to exceed 5,000 sq. ft. of floor space.....	\$ 42.26	19.18
Work ONLY on strip malls, light commercial, tenant improvement and remodel work.....	\$ 34.11	17.51

 PLUM0016-011 07/01/2013

	Rates	Fringes
PLUMBER/PIPEFITTER		
Residential.....	\$ 35.25	16.08

 PLUM0345-001 07/01/2013

	Rates	Fringes
PLUMBER		
Landscape/Irrigation Fitter..	\$ 27.85	18.81
Sewer & Storm Drain Work....	\$ 32.50	16.93

 ROOF0045-001 07/01/2012

	Rates	Fringes
ROOFER.....	\$ 25.08	7.28

 SFCA0669-001 07/01/2013

	Rates	Fringes
SPRINKLER FITTER.....	\$ 34.86	18.66

 SHEE0206-001 01/01/2012

	Rates	Fringes
SHEET METAL WORKER		
Camp Pendleton.....	\$ 35.05	19.23
Except Camp Pendleton.....	\$ 33.05	19.23
Sheet Metal Technician.....	\$ 25.22	6.69

SHEET METAL TECHNICIAN - SCOPE:

a. Existing residential buildings, both single and multi-family, where each unit is heated and/or cooled by a separate system b. New single family residential buildings including tracts. c. New multi-family residential buildings, not exceeding five stories of living space in height, provided each unit is heated or cooled by a separate system. Hotels and motels are excluded. d. LIGHT COMMERCIAL WORK: Any sheet metal, heating and air conditioning work performed on a project where the total construction cost, excluding land, is under \$1,000,000 e. TENANT IMPROVEMENT WORK: Any work necessary to finish interior spaces to conform to the occupants of commercial buildings, after completion of the building shell

 TEAM0036-001 07/01/2012

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 15.40	20.50
GROUP 2.....	\$ 24.99	20.50
GROUP 3.....	\$ 25.19	20.50
GROUP 4.....	\$ 25.39	20.50
GROUP 5.....	\$ 25.59	20.50
GROUP 6.....	\$ 26.09	20.50
GROUP 7.....	\$ 27.59	20.50

FOOTNOTE: HAZMAT PAY: Work on a hazmat job, where hazmat certification is required, shall be paid, in addition to the classification working in, as follows: Levels A, B and C - +\$1.00 per hour. Workers shall be paid hazmat pay in increments of four (4) and eight (8) hours.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Fuel Man, Swamper

GROUP 2: 2-axle Dump Truck, 2-axle Flat Bed, Concrete Pumping Truck, Industrial Lift Truck, Motorized Traffic Control, Pickup Truck on Jobsite

GROUP 3: 2-axle Water Truck, 3-axle Dump Truck, 3-axle Flat Bed, Erosion Control Nozzleman, Dump Crete Truck under 6.5 yd, Forklift 15,000 lbs and over, Prell Truck, Pipeline Work Truck Driver, Road Oil Spreader, Cement Distributor or Slurry Driver, Bootman, Ross Carrier

GROUP 4: Off-road Dump Truck under 35 tons 4-axles but less than 7-axles, Low-Bed Truck & Trailer, Transit Mix Trucks under 8 yd, 3-axle Water Truck, Erosion Control Driver, Grout Mixer Truck, Dump Crete 6.5yd and over, Dumpster Trucks, DW 10, DW 20 and over, Fuel Truck and Dynamite, Truck Greaser, Truck Mounted Mobile Sweeper 2-axle Winch Truck

GROUP 5: Off-road Dump Truck 35 tons and over, 7-axles or more, Transit Mix Trucks 8 yd and over, A-Frame Truck, Swedish Cranes

GROUP 6: Off-Road Special Equipment (including but not limited to Water Pull Tankers, Athey Wagons, DJB, B70 Wuclids or like Equipment)

GROUP 7: Repairman

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually

each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

=====

END OF GENERAL DECISION

City of San Diego

CITY CONTACT: Clementina Giordano - Contract Specialist, Email: CGiordano@sandiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633

ADDENDUM "C"

FOR



HILLERY DRIVE IMPROVEMENTS

BID NO.:	K-14-5962-DBB-3
SAP NO. (WBS/IO/CC):	S-11064
CLIENT DEPARTMENT:	2116
COUNCIL DISTRICT:	5
PROJECT TYPE:	ID

BID DUE DATE:

2:00 PM

JANUARY 23, 2014

CITY OF SAN DIEGO

PUBLIC WORKS CONTRACTING GROUP

1010 SECOND AVENUE, 14th FLOOR, MS 614C

SAN DIEGO, CA 92101

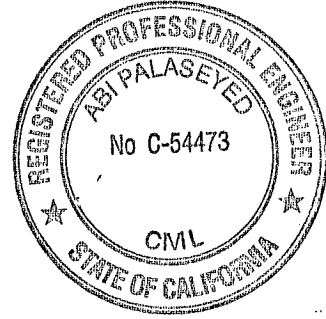
ENGINEER OF WORK

The engineering Specifications and Special Provisions contained herein have been prepared by or under the direction of the following Registered Engineer/Architect:

A. Palaseyed
For City Engineer

1/7/14
Date

Seal:



A. CHANGES TO CONTRACT DOCUMENTS

The following changes to the Contract Documents are hereby made effective as though originally issued with the bid package. Bidders are reminded that all previous requirements to this solicitation remain in full force and effect.

THE SUBMITTAL DATE FOR THIS PROJECT HAS BEEN **EXTENDED AS STATED ON THE COVER PAGE.**

B. ADDENDUM "A"

1. To Section B, Item 1, page 3, **DELETE** in its entirety and **SUBSTITUTE** with the following:
 2. **CONSTRUCTION COST:** The City's estimated construction cost for this contract is \$ 1,287,000.00
2. To Section C, Item 1, page 3 Proposal (BID), **DELETE** in their entirety and **SUBSTITUTE** with pages 4 of 11 through 9 of 11 of this Addendum.
3. To Section D, Item 1, page 3, Drawings numbered 36647-01-D and 36647-17-D, **REVISE** with (36647-01-D and, 36647-17-D) pages 10 of 11 though 11 of 11 of this Addendum.

James Nagelvoort, PE
Interim Director & City Engineer
Public Works Department

Dated: *January 7, 2014*
San Diego, California

JN/BD/Lad

BIDDING DOCUMENTS

PROPOSAL (BID)

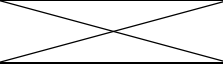
The Bidder agrees to the construction of **Hillery Drive Improvements**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
BASE BID							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)	 	\$
2	1	LS	541214	3-3.2.2.1	Certified Payroll	 	\$
3	1	EA	238210	5-4	Relocate Cable Pedestal	\$	\$
4	1	LS	237310	7-10.2.6	Traffic Control	 	\$
5	1	LS	237310	9-3.4.1	Mobilization	 	\$
6	1	AL		9-3.5	Field Orders - Type II	 	\$115,000.00
7	15	EA	237310	209-9.2	Install Traffic Sign On Post	\$	\$
8	1	LS	332321	217-1	Door and Hardware	 	\$
9	1	LS	238910	300-1.4	Clearing & Grubbing	 	\$
10	1550	LF	238910	300-1.4	Sawcutting	\$	\$
11	3	EA	237310	300-1.4	Relocate Existing Traffic Sign	\$	\$
12	78	CY	238910	300-1.4	Pavement and Sidewalk Removal & Disposal	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
13	650	LF	238910	300-1.4	Remove Curb and Gutter	\$	\$
14	4850	SF	238910	300-1.4	Remove Sidewalk and Driveway	\$	\$
15	3150	SF	238910	300-1.4	Remove Pavement	\$	\$
16	1	LS	238910	300-1.4	Retaining Wall Removal (Portion)	 	\$
17	260	CY	237310	300-2.9	Excavate and Export (Unclassified)	\$	\$
18	1090	CY	238910	300-3.6	Structure Excavation (Retaining Wall)	\$	\$
19	555	CY	238910	300-3.6	Structure Backfill (Retaining Wall)	\$	\$
20	3	EA	237310	301-1.7	Adjust Manholes, Valves, Meters	\$	\$
21	770	CY	237310	301-3.3.6	Cement Treated Base	\$	\$
22	360	TON	237310	302-5.9	Asphalt Concrete	\$	\$
23	570	SF	237310	302-5.9	Schedule "J" Paving	\$	\$
24	150	TON	237310	302-11.9	Rubberized Hot Mix Asphalt (CRUMAC-GG-B)	\$	\$
25	2100	SF	238140	303-1.3.1	Architectural Treatment (Cobblestone)	\$	\$
26	325	CY	238110	303-1.11	Structural Concrete, Retaining Wall	\$	\$
27	32500	LB	238120	303-1.11	Bar Reinforcement Steel (Retaining Wall)	\$	\$
28	1	EA	237310	303-1.11	Modified Type B Curb Inlet with Treatment Device	\$	\$
29	1	EA	237310	303-1.11	Type A-4 Cleanout	\$	\$
30	1	EA	237311	303-1.12	Type B-1 Curb Inlet	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
31	2	EA	237310	303-1.12	Remove Existing Curb Inlet	\$	\$
32	3725	SF	238140	303-4.2.5	Sound Wall, Masonry Block	\$	\$
33	2	EA	237310	303-5.10.2	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$	\$
34	3	EA	237310	303-5.10.2	Curb Ramp Type C-1 w/ Stainless Steel Detectable Warning Tiles	\$	\$
35	5100	SF	273310	303-5.9	4" Thick Sidewalk	\$	\$
36	860	LF	237310	303-5.9	Curb & Gutter, Type G	\$	\$
37	336	LF	237310	303-5.9	6" Concrete Curb	\$	\$
38	400	SF	237310	303-5.9	Concrete Driveway	\$	\$
39	3342	SF	237310	303-6.1.1	Colored Stamped PCC Raised Median	\$	\$
40	150	LF	237310	304-2.1.4	Hand Rail (M-24)	\$	\$
41	100	LF	238990	304-3.4	Vinyl Coated Chain-Link Fence	\$	\$
42	14	LF	237310	306-1.6	Storm Drain (24x32) 2000-D	\$	\$
43	1	LS	237110	306-1.6	Remove Fire Hydrant		\$
44	1	EA	237110	306-1.6	Fire Hydrant Assembly	\$	\$
45	16	SF	237110	306-1.6	Thrust Block	\$	\$
46	2	EA	237110	306-1.6	Thrust Anchor	\$	\$
47	3	EA	237110	306-1.6	Sidewalk Underdrain	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
48	1	LS	238210	307-2	Street Lighting and Required Connections	 	\$
49	1	EA	238210	307-2	Traffic Signal Modification	\$	\$
50	1	EA	238210	307-2	Lighted Crosswalk	\$	\$
51	1	EA	238210	307-2	Relocate Street Light	\$	\$
52	386	LF	238910	314-2.3	Remove Traffic Striping and Marking	\$	\$
53	5903	LF	237310	314-4.3.7	Traffic Striping	\$	\$
54	15	EA	237310	314-4.3.7	Pavement Markings	\$	\$
55	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	 	\$
56	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	 	\$
ESTIMATED TOTAL BASE BID:							\$

TOTAL BID PRICE FOR BID (Items 1 through 56 inclusive) amount written in words:

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: _____

BIDDING DOCUMENTS

The names of all persons interested in the foregoing proposal as principals are as follows:

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

Bidder: _____

Title: _____

Business Address: _____

Place of Business: _____

Place of Residence: _____

Signature: _____

BIDDING DOCUMENTS

NOTES:

- A. The City shall determine the low Bid based on the Base Bid alone.
- B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

HILLERY DRIVE IMPROVEMENTS

CONTRACTOR'S RESPONSIBILITIES

1. PURSUANT TO SECTION 4216 OF THE CALIFORNIA GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G., UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.

2. NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (I.E., 69 KV & HIGHER)

TRAFFIC CONTROL NOTES:

THE CONTRACTOR SHALL, PER SECTION 7-10.2.1 OF THE CONTRACT SPECIAL PROVISIONS, PREPARE TRAFFIC CONTROL SHOP DRAWINGS AND SUBMIT THEM TO THE RESIDENT ENGINEER. THE SHOP DRAWINGS WILL BE SENT TO THE ENGINEERING TRAFFIC CONTROL SECTION FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWENTY (20) WORKING DAYS FOR REVIEW OF THE SHOP DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE ENGINEERING TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT. WORK SHALL NOT BEGIN IN THE PUBLIC RIGHT OF WAY WITHOUT THE APPROVED TCP PERMIT.

STORM WATER PROTECTION

THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001 AND WPCP.

WATER POLLUTION CONTROL NOTES:

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS NOTED IN THE GREENBOOK 2012 CITY SUPPLEMENT SEC 701 - WATER POLLUTION CONTROL, PREPARE A WATER POLLUTION CONTROL PLAN, AND PROTECT ALL EXISTING STORM DRAIN INLET STRUCTURES FROM SEDIMENTATION, CONTAMINATION FROM RUNOFF, ROCK WASHING RUNOFF, OR ANY OTHER PROJECT SITE RUNOFF BY PLACING EROSION CONTROL DEVICES AS APPROVED BY THE RESIDENT ENGINEER.

STREET CLASSIFICATION

STREET NAME: HILLERY DRIVE
COLLECTOR, ADT=9,690

STREET NAME: BLACK MOUNTAIN ROAD
COLLECTOR, ADT=16,900

CITY REFERENCE DRAWINGS:

14383-D, 16558-D, 17357-D, 27274-D, 29558-D, 29617-D, 29650-D, 33052-D, 35085-D

SURVEY FIELD DATA

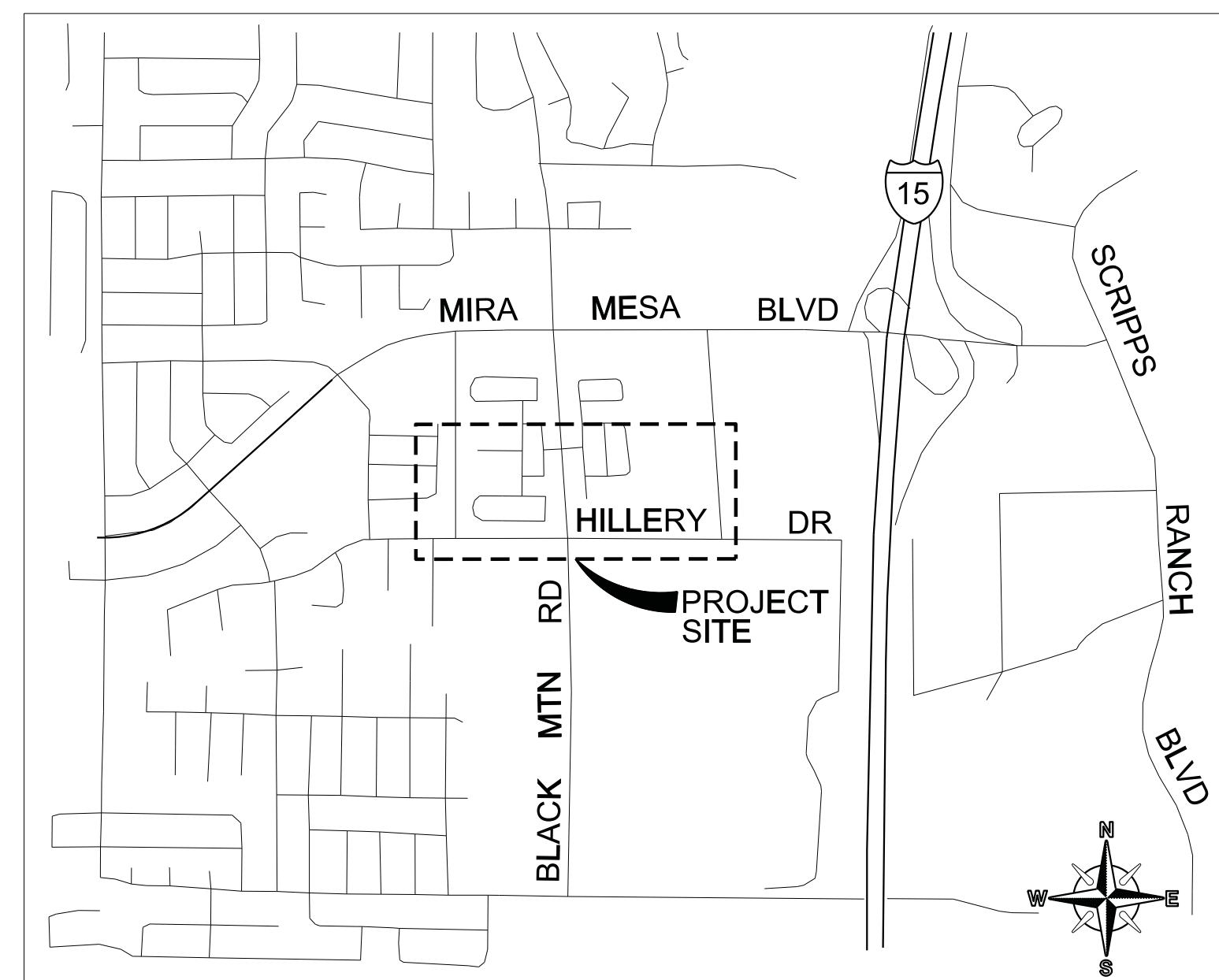
REFERENCES:
City of San Diego PRELIMINARY SURVEY FIELD NOTES;
C. RENNER, 272-1731, 12003455, 6/8/10
MAPS: 6779, 6787, 7634, 7635, 7882, 8456, 8510, 8678, 9182, 9291, 9834, 13802
ROS: 12325
CITY DWG: 12558-B, 13592-B, 13398-B, 18966-B, 21168-B

BASIS OF BEARINGS/COORDINATES:
THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY, R.O.S. 14492, NAD 83, ZONE 6 (EPOCH 91.35), UTILIZING RTK/GPS FIELD PROCEDURES WITH THE BASE STATION LOCATED RANDOMLY AND CONSTRAINING TO GPS 625 AND GPS 566, I.E. N 45°13' W, 6766.48, CONTROL LOCALLY CONSTRAINED TO:
PTS 524 AND 51 PER LEPAGE, 4/24/07, WO 680092, 276-1725

BENCH:
NEBP CAMINO RUIZ AND MIRA MESA BLVD, ELEV. 430.039 MSL, BASED ON NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCH BOOK.

SHEET INDEX

SHEET NO.	DISCIPLINE CODE	TITLE	DESCRIPTION
1	G-1	TITLE SHEET	
2	G-2	DETAILS AND CROSS SECTIONS	
3	D-1	DEMOLITION PLAN	
4	C-1	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 10+00 TO 18+00)
5	C-2	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
6	C-3	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
7	SS-1	SIGNING AND STRIPING PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
8	SS-2	SIGNING AND STRIPING PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
9	EC-1	EROSION CONTROL PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
10	EC-2	EROSION CONTROL PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
11	TC-1	TRAFFIC CONTROL PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
12	TC-2	TRAFFIC CONTROL PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
13	TC-3	TRAFFIC CONTROL PLANS	INT. OF HILLERY DRIVE AND RICKERT ROAD
14	S-1	RETAINING WALL PLANS	HILLERY DRIVE (STATION 10+00 TO 18+00)
15	S-2	RETAINING WALL PLANS	
16	S-3	RETAINING WALL PLANS	
17	S-4	RETAINING WALL PLANS	
18	S-5	RETAINING WALL PLANS	
19	S-6	RETAINING WALL PLANS	
20	S-7	RETAINING WALL PLANS	
21	E-1	TRAFFIC SIGNAL PLANS	INT. OF HILLERY DRIVE AND BLACK MTN ROAD
22	E-2	TRAFFIC SIGNAL PLANS	HILLERY DRIVE AND RICKERT ROAD
23	E-3	TRAFFIC SIGNAL PLANS	INT. OF HILLERY DRIVE AND RICKERT ROAD



KEY MAP
NO SCALE

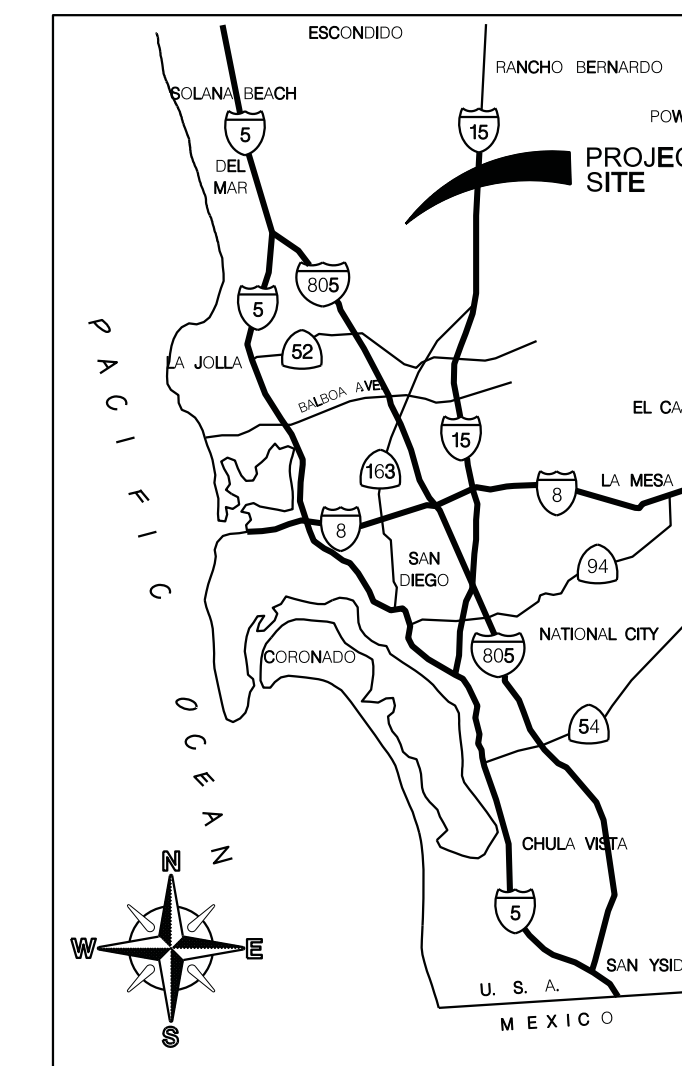
ABBREVIATIONS

ABAND	ABANDON	CO	CLEANOUT	HP	HIGH POINT	HMA-A	HOT MIX ASPHALT (TYPE A)
ABAND'D	ABANDONED	COND	CONDUIT	LP	LOW POINT	RHMA-G	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
AC	ASPHALT CONCRETE	ECR	END CURB RETURN	LT	LEFT	CTB	CEMENT TREATED BASE
BC	BOTTOM OF CURB	EL	ELEVATION	PROP	PROPOSED		
BCR	BEGIN CURB RETURN	ELEC	ELECTRICAL	P/L	PROPERTY LINE		
BTWN	BETWEEN	EX	EXISTING	RT	RIGHT		
CATV	CABLE TV	FG	FINISH GRADE	R/W	RIGHT OF WAY		
CL	CENTER LINE	FL	FLOW LINE	TB	TOP OF BOX		
CI	CURB INLET	FS	FINISH SURFACE	TC	TOP OF CURB		
		GB	GRADE BREAK	UNK	UNKNOWN		

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE STANDARD SPECIFICATIONS AND THE STANDARD DRAWINGS OF THE CITY OF SAN DIEGO:

REMOVE PORTIONS OF EXISTING CONCRETE, ASPHALT PAVING AND LANDSCAPE IMPROVEMENTS ALONG HILLERY DRIVE AND REPLACE WITH NEW PAVING, OVERLAY, CONCRETE SIDEWALK AND RETAINING WALL. RELOCATE EXISTING CURB INLET ALONG HILLERY DRIVE AND INSTALL NEW CLEANOUT AT JUNCTION; REMOVE PORTIONS OF EXISTING PAVEMENT ALONG RICKERT ROAD AND INSTALL NEW PCC CHICANES. MODIFY SIGNAL AT INTERSECTIONS AND EXISTING STRIPING; INSTALL NEW RAISED, LIGHTED CROSSWALK ALONG HILLERY DRIVE; RECONSTRUCT EXISTING SIDEWALK, DRIVEWAY AND HARDSCAPE AT ADJACENT PARCEL; INSTALL NEW STREETLIGHTS; RECONSTRUCT VARIOUS ADA RAMPS AND PEDESTRIAN FACILITIES.



VICINITY MAP
NOT TO SCALE

GRADING QUANTITIES

DISTURBED AREA... 0.67 [ACRES] MAX. CUT DEPTH... 6.67 [FT]
CUT QUANTITIES... 310 [CY] MAX. FILL DEPTH... 5.00 [FT]
FILL QUANTITIES... 50 [CY] EXPORT... 260 [CY]

THIS PROJECT PROPOSES TO EXPORT 260 CUBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

LEGEND

PROPOSED IMPROVEMENTS	STD DWG / REFERENCE	SYMBOL
CURB & GUTTER (TYPE G)	SDG-110, SDG-151	
PCC SIDEWALK	SDG-109, SDG-155	
RETAINING WALL	STRUCTURAL SHEETS	
ASPHALT PAVING	PER PLAN	
COLDMILL	SDG-106	
CURB INLET	DETAIL F, SHEET G-2	
SAWCUT		
CURB INLET (TYPE B-1)	SDD-116	
CLEANOUT (A-5)	D-9	
RCP STORM DRAIN (SIZE/TYPE PER PLAN)	SDD-100	
PROPOSED ELEVATION	436.65FS	
EXISTING ELEVATION	(436.65FS)	
FIRE HYDRANT	SDW-104	
EXISTING IMPROVEMENTS	REFERENCE	SYMBOL
WATER VALVE	N/A	
WATER METER	N/A	
FIRE HYDRANT	N/A	
SEWER MAIN & MANHOLES	N/A	
STORM DRAIN	N/A	
WATER	N/A	
TRAFFIC SIGNAL	N/A	
STREET LIGHT	N/A	
GAS MAIN	N/A	
ELECTRICAL, TELEPHONE, CABLE SERVICE	N/A	
EXISTING CONTOURS	N/A	

CONSTRUCTION CHANGE / ADDENDUM		WARNING
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS
A	12/30/13	2, 4, 5, 17
C	1/6/13	17

0 1

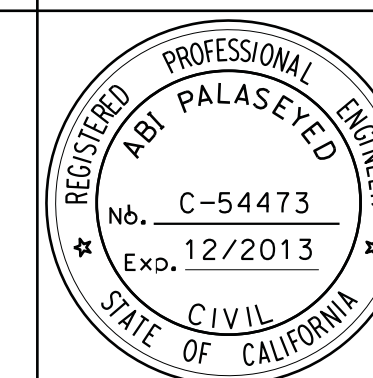
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
PUBLIC WORKS PROJECT

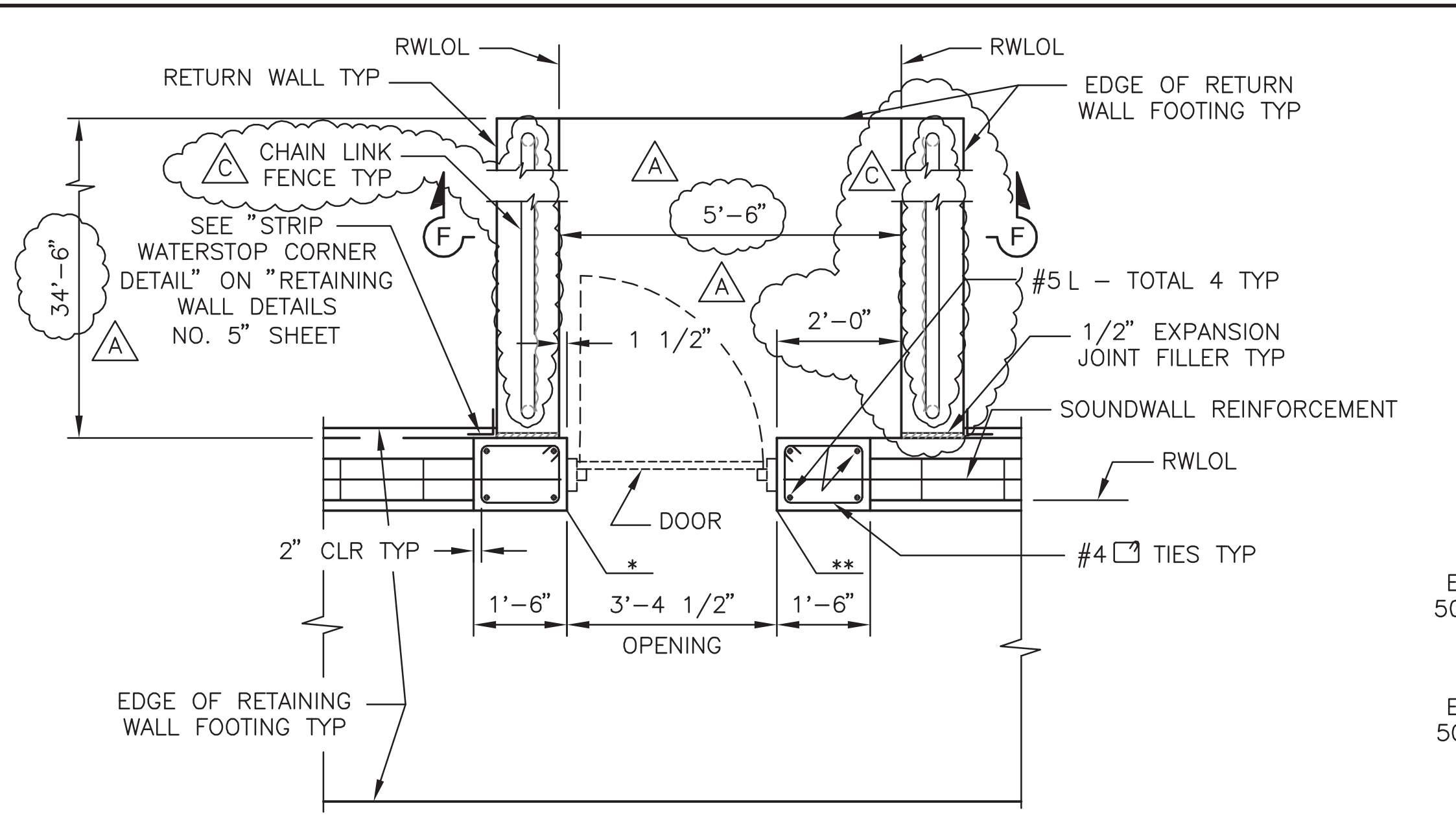


TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH --- MEDIUM --- LOW.X..

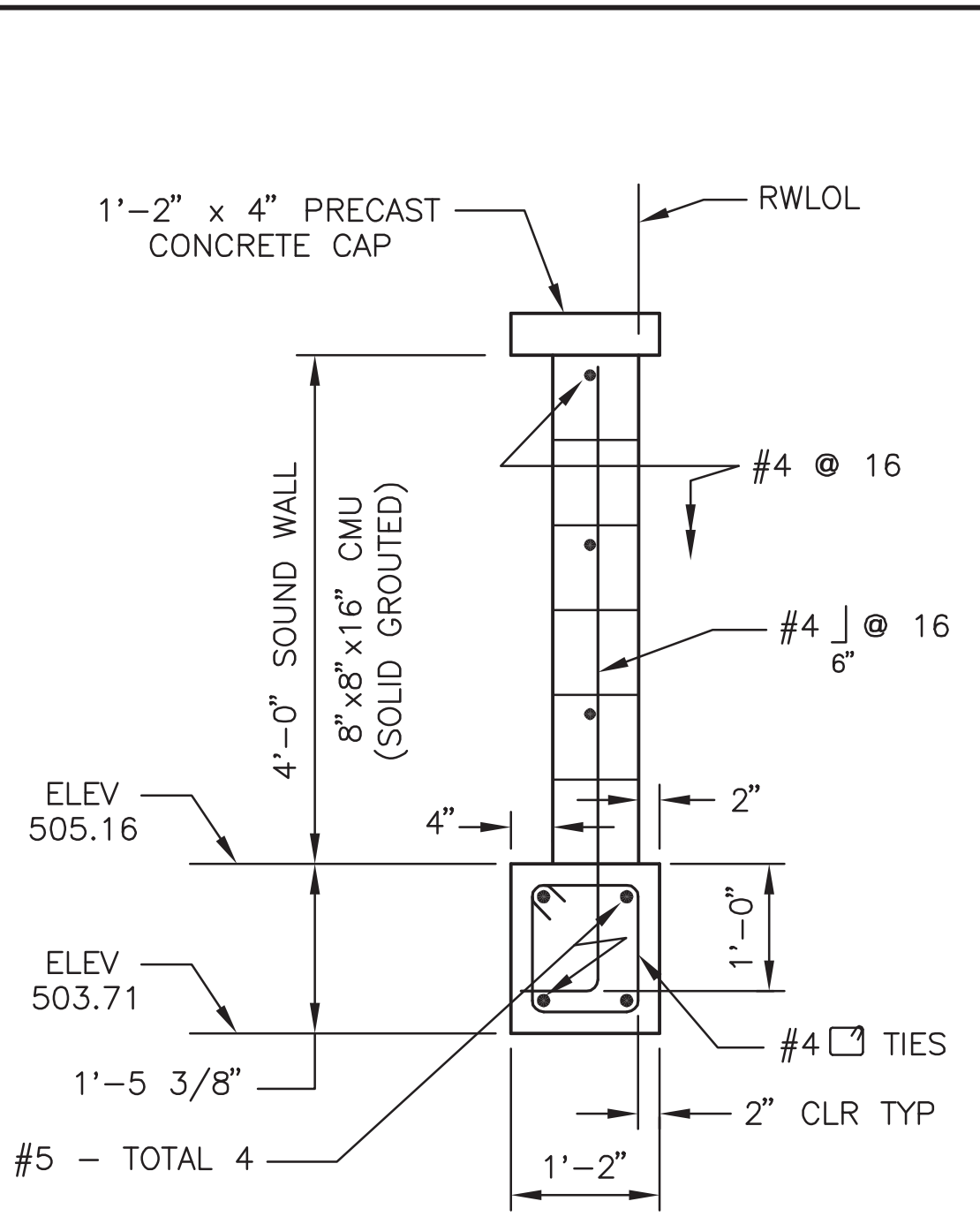
SPEC. No.: 5962



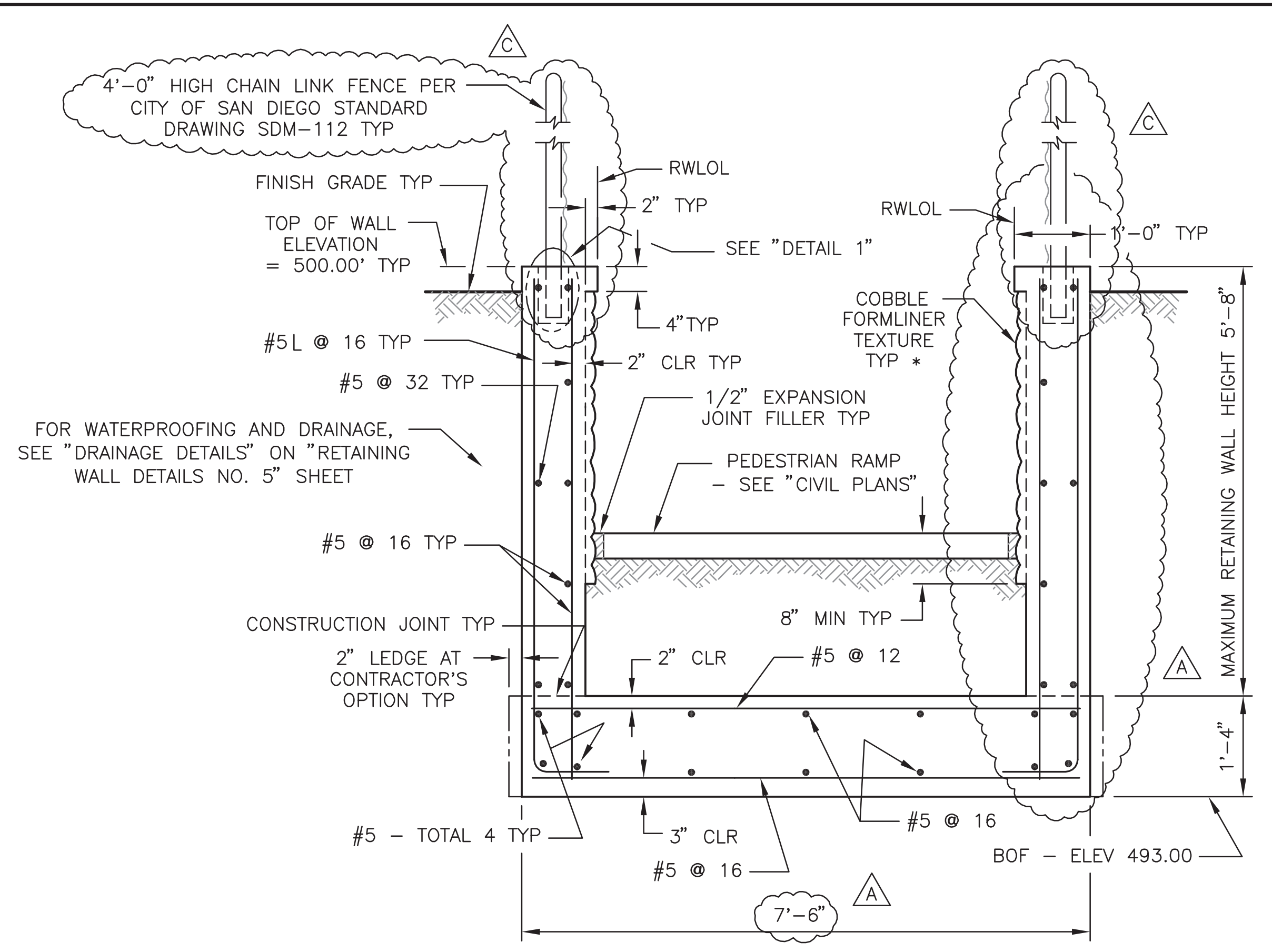
PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS TITLE SHEET				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 1 OF 23 SHEETS				WBS S-11064
APPROVED FOR CITY ENGINEER <i>ABI PALASEYED</i> DATE 1/6/14		SUBMITTED BY J. MANCHESTER PROJECT MANAGER		
DESCRIPTION ORIGINAL		BY JRM	APPROVED	DATE
				FILED
CONTRACTOR		DATE STARTED	PROJECT ENGINEER	
INSPECTOR		DATE COMPLETED	270-1731	
			CCS27 COORDINATE	
			1910444-6292407	
			CCS83 COORDINATE	
			36647-01-D	



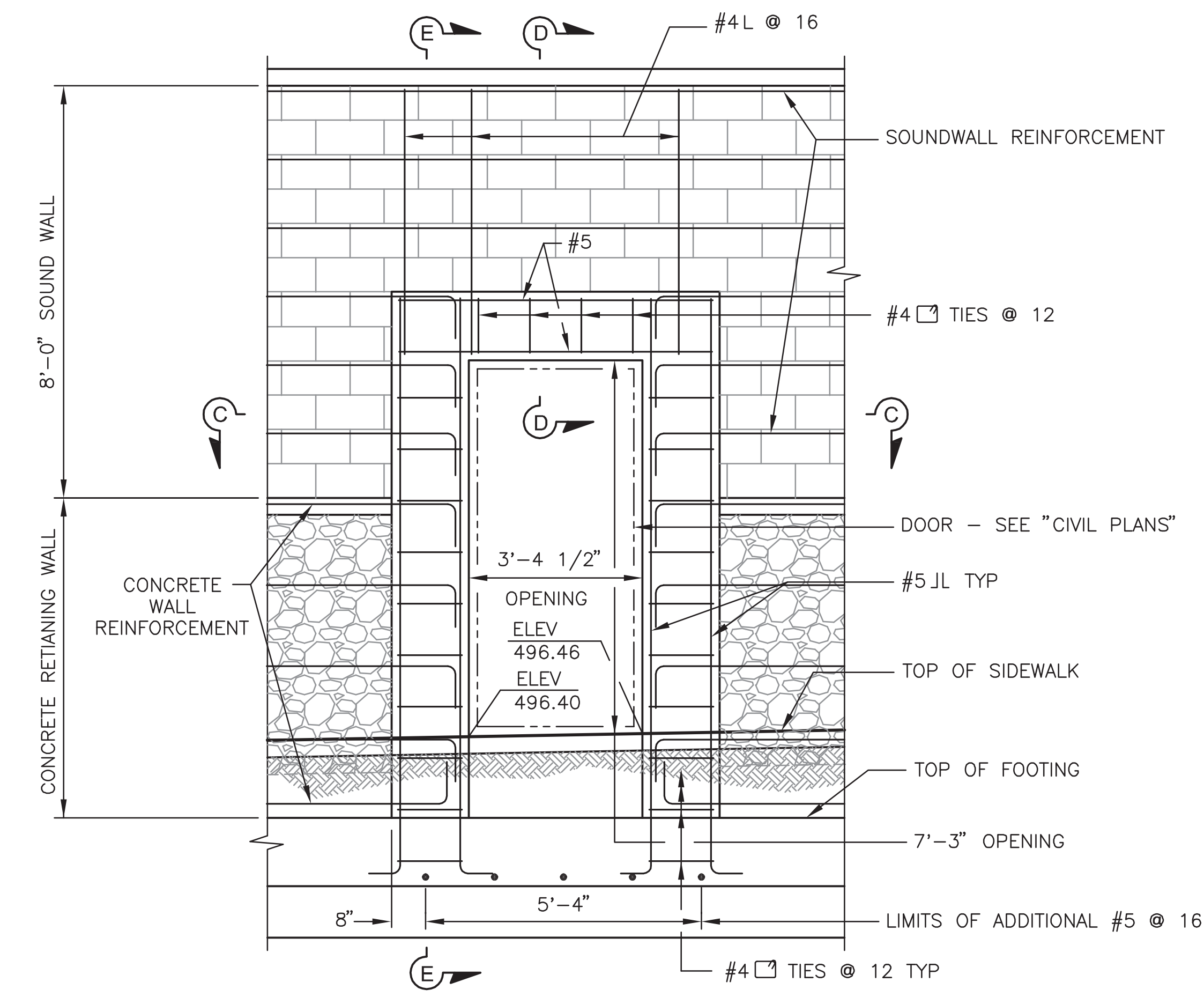
SECTION C-C
1/2" = 1'-0"
* - END WALL STA 11+57.31
** - BEGIN WALL STA 11+60.68



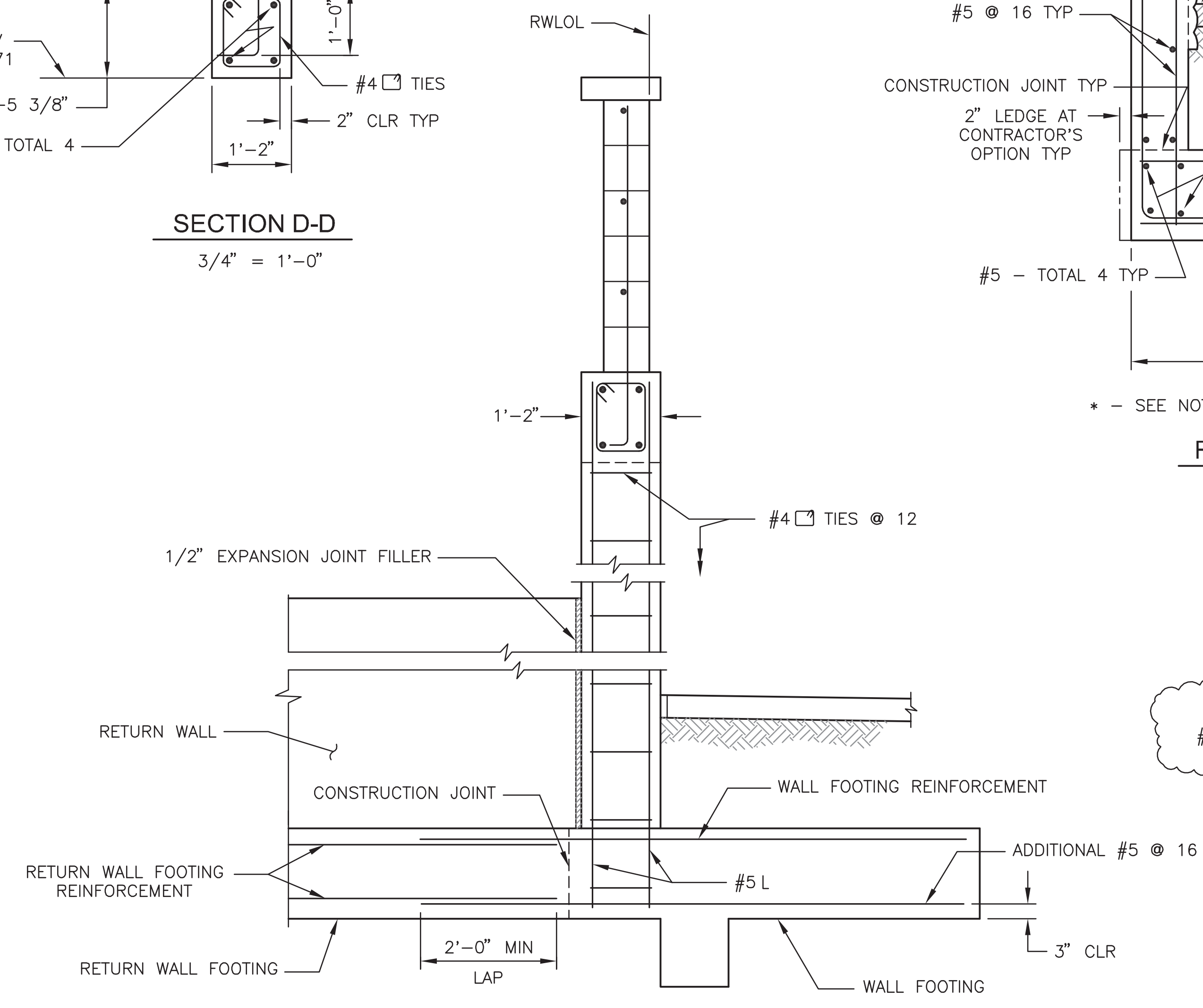
SECTION D-D
3/4" = 1'-0"



RETURN WALL - SECTION F-F
3/4" = 1'-0"
* - SEE NOTE 4 ON "RETAINING WALL DETAILS NO. 1" SHEET.

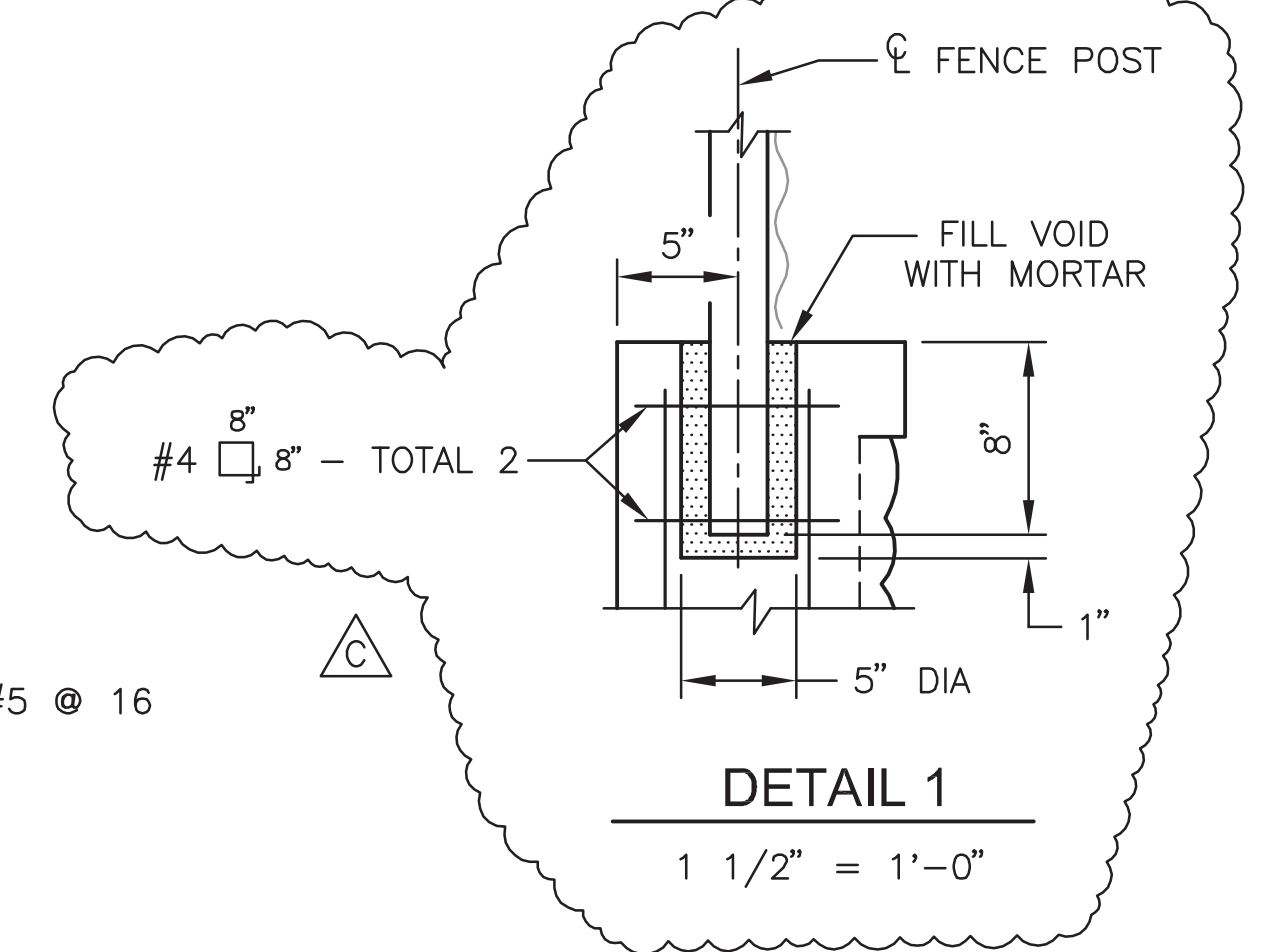


ELEVATION - ADA PATH TO VILLAGE PARK
1/2" = 1'-0"



SECTION E-E
3/4" = 1'-0"

NOTE: FOR INFORMATION NOT SHOWN, SEE "SECTION D-D".



S-4

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO PUBLIC WORKS PROJECT

SIMON WONG ENGINEERING
9968 Hibert Street, Second Floor
San Diego, CA 92131 (858) 566-3113
Job: 500-922

DATE: 7/22/13
R.C.E. NO. 68491

PREPARED BY: PAUL A. MOREL
REGISTRATION EXPIRES: 09/30/13

PROFESSIONAL ENGINEER
Paul A. Morel
No. 68491
CIVIL
STATE OF CALIFORNIA

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS RETAINING WALL DETAILS NO. 2

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 17 OF 23 SHEETS

WBS S-11064

APPROVED: *A. Palasey* 1/6/14 DATE
FOR CITY ENGINEER: *ABU PALASEY*
SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
B. OLSON PROJECT ENGINEER
270-1731
CC827 COORDINATE
1910444-6292407
CC883 COORDINATE

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SWE	AP	1/6/14	
	SWE	AP	1/2/14	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

36647-17-D

HILLERY DRIVE IMPROVEMENTS



1/24/14 CO



THE CITY OF SAN DIEGO

Purchasing and Contracting Department
Contracting Division
1200 Third Avenue, Suite 200
San Diego, CA 92101
(619) 236-6000

FAX TRANSMITTAL

Date: January 24, 2014

The following 5 pages (including this cover) are intended for:

To:	Estimator	From:	Celia Navarro
Company:	Dick Miller Inc.	Division:	Contracting Division
FAX #	(760) 471-6178	FAX #	619-533-3633
Phone #	(760) 471-6842	Phone #	619-533-3431

RE: Bid # K-14-5962-DBB-3 – Hillery Drive Improvements

COMMENTS:

In tabulating the bid results of subject project, we have found that the ESTIMATED TOTAL BASE BID is \$1,187,781.98 NOT \$1,187,765.98 as per your bid.

Please FAX acknowledgement/concurrence of the correct amount, by 4:00pm today.

If there are any problems with receiving this FAX transmission (such as missing pages), please contact the Sender at the "From" phone number given above.

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED, AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. RECEIPT BY AN UNINTENDED RECIPIENT DOES NOT CONSTITUTE A WAIVER OF ANY APPLICABLE PRIVILEGE.

If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, and return the original message to us at the above address via the U.S. Postal Service.

Corrected amount is acknowledged and we concur.
Paul Smith for Dick Miller Inc.
Paul Smith

City of San Diego

CONTRACTOR'S NAME: DICK MILLER INC.
ADDRESS: 930 BOARDWALK, SUITE H, SAN MARCOS, CA 92078
TELEPHONE NO.: 760-471-8842 FAX NO.: 760-471-6178
CITY CONTACT: Clementina Giordano - Contract Specialist, Email: CGiordano@sanidiego.gov
Phone No. (619) 533-3481, Fax No. (619) 533-3633
JManchester /BDoringo/LAD

CONTRACT DOCUMENTS

FOR



HILLERY DRIVE IMPROVEMENTS

VOLUME 2 OF 2

BID NO.: K-14-5962-DBB-3
SAP NO. (WBS/IO/CC): S-11064
CLIENT DEPARTMENT: 2116
COUNCIL DISTRICT: 5
PROJECT TYPE: ID

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- FEDERAL EQUAL OPPORTUNITY CONTRACTING REQUIREMENTS.
- PREVAILING WAGE RATES: STATE FEDERAL
- THIS IS A TRANSNET FUNDED CONTRACT THROUGH THE CALIFORNIA DEPARTMENT OF TRANSPORTATION

**THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY
REFER TO VOLUME 1 COVER PAGE FOR TIME, DATE, AND LOCATION**

TABLE OF CONTENTS

DESCRIPTION

PAGE NUMBER

Volume 2 - Bidding Documents

The following forms must be completed in their entirety and submitted with the Bid. Include the form(s) even if the information does not apply. Where the information does not apply write in N/A. Failure to include any of the forms may cause the Bid to be deemed **non-responsive**. If you are uncertain or have any questions about any required information, contact the City no later than 14 days prior to Bid due date.

1. Bid/Proposal..... 3
2. Bid Bond..... 6
3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106 7
4. Contractors Certification of Pending Actions 8
5. Equal Benefits Ordinance Certification of Compliance..... 9
6. Proposal (Bid) 10
7. Form AA35 - List of Subcontractors 15
8. Form AA40 - Named Equipment/Material Supplier List 16

BIDDING DOCUMENTS

PROPOSAL

Bidder's General Information

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:

- (1) Name under which business is conducted _____
- (2) Signature (Given and surname) of proprietor _____
- (3) Place of Business (Street & Number) _____
- (4) City and State _____ Zip Code _____
- (5) Telephone No. _____ Facsimile No. _____
- (6) Email Address _____

BIDDING DOCUMENTS

IF A PARTNERSHIP, SIGN HERE:

- (1) Name under which business is conducted _____
- (2) Name of each member of partnership, indicate character of each partner, general or special (limited):

- (3) Signature (Note: Signature must be made by a general partner)

Full Name and Character of partner

- (4) Place of Business (Street & Number) _____
- (5) City and State _____ Zip Code _____
- (6) Telephone No. _____ Facsimile No. _____
- (7) Email Address _____

IF A CORPORATION, SIGN HERE:

- (1) Name under which business is conducted DICK MILLER INC.
- (2) Signature, with official title of officer authorized to sign for the corporation:
M. F. B. _____
(Signature)
GLEN BULLOCK
(Printed Name)
PRESIDENT
(Title of Officer)

(Impress Corporate Seal Here)
- (3) Incorporated under the laws of the State of CALIFORNIA
- (4) Place of Business (Street & Number) 930 BOARDWALK, SUITE H
- (5) City and State SAN MARCOS, CA Zip Code 92078

BIDDING DOCUMENTS

(6) Telephone No. 760-471-6842 Facsimile No. 760-471-6178
(7) Email Address gbullock@dickmillerinc.com

THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:

In accordance with the "NOTICE INVITING BIDS", the bidder holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION A, B & C-12

LICENSE NO. 380204 EXPIRES JUNE 30, 2015

This license classification must also be shown on the front of the bid envelope. Failure to show license classification on the bid envelope may cause return of the bid unopened.

TAX IDENTIFICATION NUMBER (TIN): [REDACTED]

Email Address: gbullock@dickmillerinc.com

THIS PROPOSAL MUST BE NOTARIZED BELOW:

I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature M. F. B. Title PRESIDENT

SUBSCRIBED AND SWORN TO BEFORE ME, THIS 23 DAY OF JANUARY, 2014

Notary Public in and for the County of SAN DIEGO, State of CALIFORNIA

[Signature]

(NOTARIAL SEAL)



THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Certificate No. 6094400

American Fire and Casualty Company
The Ohio Casualty Insurance Company

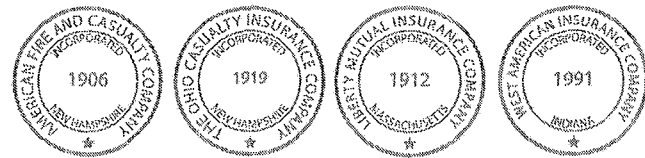
Liberty Mutual Insurance Company
West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American Fire & Casualty Company and The Ohio Casualty Insurance Company are corporations duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Bart Stewart

all of the city of Encinitas, state of CA each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 24th day of April, 2013.



American Fire and Casualty Company
The Ohio Casualty Insurance Company
Liberty Mutual Insurance Company
West American Insurance Company

By: Gregory W. Davenport
Gregory W. Davenport, Assistant Secretary

STATE OF WASHINGTON ss
COUNTY OF KING

On this 24th day of April, 2013, before me personally appeared Gregory W. Davenport, who acknowledged himself to be the Assistant Secretary of American Fire and Casualty Company, Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Seattle, Washington, on the day and year first above written.



By: KD Riley
KD Riley, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS – Section 12. Power of Attorney. Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts – SECTION 5. Surety Bonds and Undertakings. Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes Gregory W. Davenport, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, David M. Carey, the undersigned, Assistant Secretary, of American Fire and Casualty Company, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 18th day of December, 2013.



By: David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of San Diego

On 12/18/2013 before me, Molly Cashman, Notary Public
(Here insert name and title of the officer)

personally appeared Bart Stewart

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Molly Cashman
Signature of Notary Public



(Notary Seal)

ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages _____ Document Date _____

(Additional information)

CAPACITY CLAIMED BY THE SIGNER

Individual (s)

Corporate Officer

(Title)

Partner(s)

Attorney-in-Fact

Trustee(s)

Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

Any acknowledgment completed in California must contain verbiage exactly as appears above in the notary section or a separate acknowledgment form must be properly completed and attached to that document. The only exception is if a document is to be recorded outside of California. In such instances, any alternative acknowledgment verbiage as may be printed on such a document so long as the verbiage does not require the notary to do something that is illegal for a notary in California (i.e. certifying the authorized capacity of the signer). Please check the document carefully for proper notarial wording and attach this form if required.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they~~ is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document

BIDDING DOCUMENTS

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California)
County of SAN DIEGO) ss.

GLEN BULLOCK, being first duly sworn, deposes and says that he or she is PRESIDENT of the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Signed: M.F.B.

Title: PRESIDENT

Subscribed and sworn to before me this 23 day of JANUARY, 2014



Mobasseri
Notary Public

(SEAL)

BIDDING DOCUMENTS

CONTRACTORS CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.

- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: DICK MILLER INC.

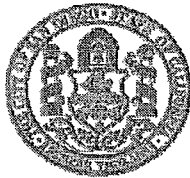
Certified By GLEN BULLOCK Title PRESIDENT
Name

M. F. B. Date 1-23-14
Signature

USE ADDITIONAL FORMS AS NECESSARY

BIDDING DOCUMENTS

**EQUAL BENEFITS ORDINANCE
CERTIFICATION OF COMPLIANCE**



For additional information, contact:

CITY OF SAN DIEGO

EQUAL BENEFITS PROGRAM

202 C Street, MS 9A, San Diego, CA 92101

Phone (619) 533-3948 Fax (619) 533-3220

COMPANY INFORMATION

Company Name:	Dick Miller Inc.	Contact Name:	Glen Bullock
Company Address:	930 Boardwalk, Suite H, San Marcos, CA 92078	Contact Phone:	760-471-684
		Contact Email:	gbullock@dickmillerinc.com

CONTRACT INFORMATION

Contract Title:	HILLERY DRIVE IMPROVEMENTS	Start Date:	N/A
Contract Number (if no number, state location):	K-14-5962-DDB-3	End Date:	N/A

SUMMARY OF EQUAL BENEFITS ORDINANCE REQUIREMENTS

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the contract. To comply:

- Contractor shall offer equal benefits to employees with spouses and employees with domestic partners.
 - Benefits include health, dental, vision insurance; pension/401(k) plans; bereavement, family, parental leave; discounts, child care; travel/relocation expenses; employee assistance programs; credit union membership; or any other benefit.
 - Any benefit not offer an employee with a spouse, is not required to be offered to an employee with a domestic partner.
- Contractor shall post notice of firm's equal benefits policy in the workplace and notify employees at time of hire and during open enrollment periods.
- Contractor shall allow City access to records, when requested, to confirm compliance with EBO requirements.
- Contractor shall submit *EBO Certification of Compliance*, signed under penalty of perjury, prior to award of contract.

NOTE: This summary is provided for convenience. Full text of the EBO and Rules Implementing the EBO are available at www.sandiego.gov/administration.

CONTRACTOR EQUAL BENEFITS ORDINANCE CERTIFICATION

Please indicate your firm's compliance status with the EBO. The City may request supporting documentation.

- I affirm **compliance** with the EBO because my firm (*contractor must select one reason*):
- Provides equal benefits to spouses and domestic partners.
 - Provides no benefits to spouses or domestic partners.
 - Has no employees.
 - Has collective bargaining agreement(s) in place prior to January 1, 2011, that has not been renewed or expired.

- I request the City's approval to pay affected employees a cash equivalent in lieu of equal benefits and verify my firm made a reasonable effort but is not able to provide equal benefits upon contract award. I agree to notify employees of the availability of a cash equivalent for benefits available to spouses but not domestic partners and to continue to make every reasonable effort to extend all available benefits to domestic partners.

It is unlawful for any contractor to knowingly submit any false information to the City regarding equal benefits or cash equivalent associated with the execution, award, amendment, or administration of any contract. [San Diego Municipal Code §22.4307(a)]

Under penalty of perjury under laws of the State of California, I certify the above information is true and correct. I further certify that my firm understands the requirements of the Equal Benefits Ordinance and will provide and maintain equal benefits for the duration of the contract or pay a cash equivalent if authorized by the City.

Glen Bullock, President

Glen Bullock

1-23-14
12411

Name/Title of Signatory

Signature

Date

FOR OFFICIAL CITY USE ONLY

Receipt Date: EBO Analyst: Approved Not Approved – Reason:

(Rev 02/15/2011)

BIDDING DOCUMENTS

PROPOSAL (BID)

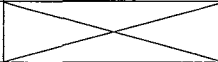
The Bidder agrees to the construction of **Hillery Drive Improvements**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
BASE BID							
1	1	LS	524126	2-4.1	Bonds (Payment and Performance)	 	\$ 14,000.00
2	1	LS	541214	3-3.2.2.1	Certified Payroll	 	\$ 3,000.00
3	1	EA	238210	5-4	Relocate Cable Pedestal	\$ 4000.00	\$ 4,000.00
4	1	LS	237310	7-10.2.6	Traffic Control	 	\$ 9,600.00
5	1	LS	237310	9-3.4.1	Mobilization	 	\$ 15,000.00
6	1	AL		9-3.5	Field Orders - Type II	 	\$115,000.00
7	15	EA	237310	209-9.2	Install Traffic Sign On Post	\$ 210.00	\$ 3,150.00
8	1	LS	332321	217-1	Door and Hardware	 	\$ 1,000.00
9	1	LS	238910	300-1.4	Clearing & Grubbing	 	\$ 18,000.00
10	1550	LF	238910	300-1.4	Sawcutting	\$ 2.10	\$ 3,255.00
11	3	EA	237310	300-1.4	Relocate Existing Traffic Sign	\$ 210.00	\$ 630.00
12	78	CY	238910	300-1.4	Pavement and Sidewalk Removal & Disposal	\$ 65.40	\$ 5,101.20

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
13	650	LF	238910	300-1.4	Remove Curb and Gutter	\$ 5.10	\$ 3,315.00
14	4850	SF	238910	300-1.4	Remove Sidewalk and Driveway	\$ 1.30	\$ 6,305.00
15	3150	SF	238910	300-1.4	Remove Pavement	\$ 1.55	\$ 4,882.50
16	1	LS	238910	300-1.4	Retaining Wall Removal (Portion)	XXXXXXXXXX	\$ 1,390.00
17	260	CY	237310	300-2.9	Excavate and Export (Unclassified)	\$ 32.00	\$ 8,320.00
18	1090	CY	238910	300-3.6	Structure Excavation (Retaining Wall)	\$ 28.35	\$ 30,901.50
19	555	CY	238910	300-3.6	Structure Backfill (Retaining Wall)	\$ 40.20	\$ 22,311.00
20	3	EA	237310	301-1.7	Adjust Manholes, Valves, Meters	\$ 757.00	\$ 2,271.00
21	770	CY	237310	301-3.3.6	Cement Treated Base	\$ 50.00	\$ 38,500.00
22	360	TON	237310	302-5.9	Asphalt Concrete	\$ 80.00	\$ 28,800.00
23	570	SF	237310	302-5.9	Schedule "J" Paving	\$ 8.00	\$ 4,560.00
24	150	TON	237310	302-11.9	Rubberized Hot Mix Asphalt (CRUMAC-GG-B)	\$ 150.00	\$ 22,500.00
25	2100	SF	238140	303-1.3.1	Architectural Treatment (Cobblestone)	\$ 15.00	\$ 31,500.00
26	325	CY	238110	303-1.11	Structural Concrete, Retaining Wall	\$ <i>825.85</i>	\$ <i>268,401.25</i>
27	32500	LB	238120	303-1.11	Bar Reinforcement Steel (Retaining Wall)	\$ 1.02	\$ 33,000.00 <i>33,150.00</i>
28	1	EA	237310	303-1.11	Modified Type B Curb Inlet with Treatment Device	\$ 28,261.00	\$ 28,261.00
29	1	EA	237310	303-1.11	Type A-4 Cleanout	\$ 7,050.00	\$ 7,050.00
30	1	EA	237311	303-1.12	Type B-1 Curb Inlet	\$ 3,750.00	\$ 3,750.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
31	2	EA	237310	303-1.12	Remove Existing Curb Inlet	\$ 598.00	\$ 118.00 1,196 ew
32	3725	SF	238140	303-4.2.5	Sound Wall, Masonry Block	\$ 29.00	\$ 108,025.00
33	2	EA	237310	303-5.10.2	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$ 2,010.00	\$ 4,020.00
34	3	EA	237310	303-5.10.2	Curb Ramp Type C-1 w/ Stainless Steel Detectable Warning Tiles	\$ 1,870.00	\$ 5,610.00
35	5100	SF	273310	303-5.9	4" Thick Sidewalk	\$ 4.00	\$ 20,400.00
36	860	LF	237310	303-5.9	Curb & Gutter, Type G	\$ 18.50	\$ 15,910.00
37	336	LF	237310	303-5.9	6" Concrete Curb	\$ 20.80	\$ 6,988.80
38	400	SF	237310	303-5.9	Concrete Driveway	\$ 5.30	\$ 2,120.00
39	3342	SF	237310	303-6.1.1	Colored Stamped PCC Raised Median	\$ 8.10	\$ 27,070.20
40	150	LF	237310	304-2.1.4	Hand Rail (M-24)	\$ 70.00	\$ 10,500.00
41	100	LF	238990	304-3.4	Vinyl Coated Chain-Link Fence	\$ 45.00	\$ 4,500.00
42	14	LF	237310	306-1.6	Storm Drain (24x32) 2000-D	\$ 230.00	\$ 3,220.00
43	1	LS	237110	306-1.6	Remove Fire Hydrant		\$ 2,500.00
44	1	EA	237110	306-1.6	Fire Hydrant Assembly	\$ 5,000.00	\$ 5,000.00
45	16	SF	237110	306-1.6	Thrust Block	\$ 31.25	\$ 500.00
46	2	EA	237110	306-1.6	Thrust Anchor	\$ 750.00	\$ 1,500.00
47	3	EA	237110	306-1.6	Sidewalk Underdrain	\$ 150.00	\$ 450.00

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
48	1	LS	238210	307-2	Street Lighting and Required Connections	 	\$ 110,000.00	
49	1	EA	238210	307-2	Traffic Signal Modification	\$ 57,400.00	\$ 57,400.00	
50	1	EA	238210	307-2	Lighted Crosswalk	\$ 52,600.00	\$ 52,600.00	
51	1	EA	238210	307-2	Relocate Street Light	\$ 2,950.00	\$ 2,950.00	
52	386	LF	238910	314-2.3	Remove Traffic Striping and Marking	\$ 2.00	\$ 772.00	
53	5903	LF	237310	314-4.3.7	Traffic Striping	\$ 0.51	\$ 3,010.53	
54	15	EA	237310	314-4.3.7	Pavement Markings	\$ 74.00	\$ 1,110.00	
55	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	 	\$ 575.00	
56	1	LS	237990	701-13.9.5	Water Pollution Control Program Implementation	 	\$ 1,950.00	
ESTIMATED TOTAL BASE BID:							\$ 1,187,765.98	

en
1,187,781.98 *en*

TOTAL BID PRICE FOR BID (Items 1 through 56 inclusive) amount written in words:

One million one hundred eighty seven thousand seven hundred sixty five dollars and ninety-eight cents.

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: A, B & C

BIDDING DOCUMENTS

The names of all persons interested in the foregoing proposal as principals are as follows:

GLEN BULLOCK

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

Bidder: Dick Miller Inc. - Glen Bullock

Title: President, Secretary & Treasurer

Business Address: 930 Boardwalk, Suite H, San Marcos, CA 92078

Place of Business: 930 Boardwalk, Suite H, San Marcos, CA 92078

Place of Residence: 5605 Golden Trails Way, Oceanside, CA 92057

Signature: W.F.B.

BIDDING DOCUMENTS

NOTES:

- A. The City shall determine the low Bid based on the Base Bid alone.
- B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB ^①	WHERE CERTIFIED ^②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: KOCH-ARMSTRONG GEN ENG Address: P.O. BOX 1190 City: LAKESIDE State: 210.00 Zip: 92040 Phone: 5.10	Constructor	STRUCTURAL CONCRETE (PARTIAL)	\$187,000.00			
Name: <i>H D Construction</i> Address: City: <i>El Cajon</i> State: CA Zip: Phone:	Constructor	<i>CONCRETE (PARTIAL)</i>	<i>\$71,147</i>			
Name: Address: City: State: CA Zip: Phone:	Constructor					

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

*0.4025
CW*

BIDDING DOCUMENTS

LIST OF SUBCONTRACTORS

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB ^①	WHERE CERTIFIED ^②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: SCOTT FENCE CO. Address: 1255 DISTRIBUTION WAY City: VISTA State: CA Zip: 92081 Phone: 760-720-3766	Constructor	HAND RAIL & CHAIN LINK FENCE	\$15,000.00			
Name: PERRY ELECTRIC Address: 9201 ISAAC STREET, STE. B City: SANTEE State: CA Zip: 92071 Phone: 619-449-0045	Constructor	ELECTRICAL & LIGHTING (PARTIAL)	\$205,000.00			
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____	Constructor					

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- | | | | |
|---|--------|--|---------|
| Certified Minority Business Enterprise | MBE | Certified Woman Business Enterprise | WBE |
| Certified Disadvantaged Business Enterprise | DBE | Certified Disabled Veteran Business Enterprise | DVBE |
| Other Business Enterprise | OBE | Certified Emerging Local Business Enterprise | ELBE |
| Certified Small Local Business Enterprise | SLBE | Small Disadvantaged Business | SDB |
| Woman-Owned Small Business | WoSB | HUBZone Business | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB | | |

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

- | | | | |
|--|--------|--|----------|
| City of San Diego | CITY | State of California Department of Transportation | CALTRANS |
| California Public Utilities Commission | CPUC | San Diego Regional Minority Supplier Diversity Council | SRMSDC |
| State of California's Department of General Services | CADoGS | City of Los Angeles | LA |
| State of California | CA | U.S. Small Business Administration | SBA |

The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.

HILLERY DRIVE IMPROVEMENTS

CONTRACTOR'S RESPONSIBILITIES

1. PURSUANT TO SECTION 4216 OF THE CALIFORNIA GOVERNMENT CODE, AT LEAST 2 WORKING DAYS PRIOR TO EXCAVATION, YOU MUST CONTACT THE REGIONAL NOTIFICATION CENTER (E.G., UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA) AND OBTAIN AN INQUIRY IDENTIFICATION NUMBER.

2. NOTIFY SDG&E AT LEAST 10 WORKING DAYS PRIOR TO EXCAVATING WITHIN 10' OF SDG&E UNDERGROUND HIGH VOLTAGE TRANSMISSION POWER LINES. (I.E., 69 KV & HIGHER)

TRAFFIC CONTROL NOTES:

THE CONTRACTOR SHALL, PER SECTION 7-10.2.1 OF THE CONTRACT SPECIAL PROVISIONS, PREPARE TRAFFIC CONTROL SHOP DRAWINGS AND SUBMIT THEM TO THE RESIDENT ENGINEER. THE SHOP DRAWINGS WILL BE SENT TO THE ENGINEERING TRAFFIC CONTROL SECTION FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL ALLOW A MINIMUM OF TWENTY (20) WORKING DAYS FOR REVIEW OF THE SHOP DRAWINGS. UPON APPROVAL OF THE TRAFFIC CONTROL PLAN, THE ENGINEERING TRAFFIC CONTROL SECTION WILL ISSUE A TRAFFIC CONTROL PLAN (TCP) PERMIT. WORK SHALL NOT BEGIN IN THE PUBLIC RIGHT OF WAY WITHOUT THE APPROVED TCP PERMIT.

STORM WATER PROTECTION

THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001 AND WPCP.

WATER POLLUTION CONTROL NOTES:

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS NOTED IN THE GREENBOOK 2012 CITY SUPPLEMENT SEC 701 - WATER POLLUTION CONTROL, PREPARE A WATER POLLUTION CONTROL PLAN, AND PROTECT ALL EXISTING STORM DRAIN INLET STRUCTURES FROM SEDIMENTATION, CONTAMINATION FROM RUNOFF, ROCK WASHING RUNOFF, OR ANY OTHER PROJECT SITE RUNOFF BY PLACING EROSION CONTROL DEVICES AS APPROVED BY THE RESIDENT ENGINEER.

STREET CLASSIFICATION

STREET NAME: HILLERY DRIVE
COLLECTOR, ADT=9,690

STREET NAME: BLACK MOUNTAIN ROAD
COLLECTOR, ADT=16,900

CITY REFERENCE DRAWINGS:

14383-D, 16558-D, 17357-D, 27274-D, 29558-D, 29617-D, 29650-D, 33052-D, 35085-D

SURVEY FIELD DATA

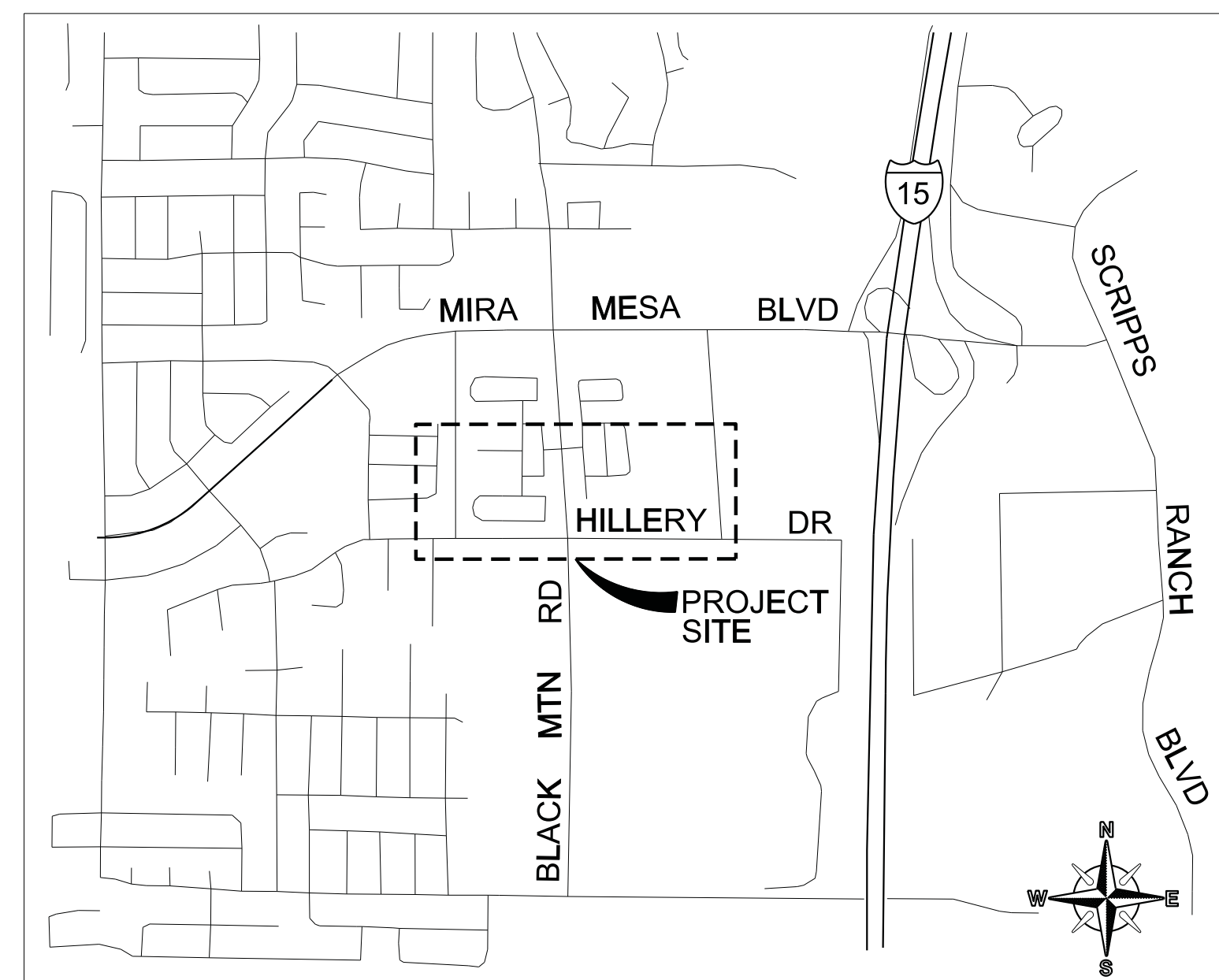
REFERENCES:
City of San Diego PRELIMINARY SURVEY FIELD NOTES;
C. RENNER, 272-1731, 12003455, 6/8/10
MAPS: 6779, 6787, 7634, 7635, 7882, 8456, 8510, 8678, 9182, 9291,
9834, 13802
ROS: 12325
CITY DWG: 12558-B, 13592-B, 13398-B, 18966-B, 21168-B

BASIS OF BEARINGS/COORDINATES:
THE BASIS OF BEARINGS FOR THIS PROJECT WAS DERIVED FROM A PREVIOUS STATIC GPS SURVEY, R.O.S. 14492, NAD 83, ZONE 6 (EPOCH 91.35), UTILIZING RTK/GPS FIELD PROCEDURES WITH THE BASE STATION LOCATED RANDOMLY AND CONSTRAINING TO GPS 625 AND GPS 566, I.E. N 455°13' W, 6766.48. CONTROL LOCALLY CONSTRAINED TO:
PTS 524 AND 51 PER LEPAGE, 4/24/07, WO 680092, 276-1725

BENCH:
NEBP CAMINO RUIZ AND MIRA MESA BLVD, ELEV. 430.039 MSL, BASED ON NGVD 29 FEET AS SHOWN IN THE CITY OF SAN DIEGO BENCH BOOK.

SHEET INDEX

SHEET NO.	DISCIPLINE CODE	TITLE	DESCRIPTION
1	G-1	TITLE SHEET	
2	G-2	DETAILS AND CROSS SECTIONS	
3	D-1	DEMOLITION PLAN	
4	C-1	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 10+00 TO 18+00)
5	C-2	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
6	C-3	STREET IMPROVEMENT PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
7	SS-1	SIGNING AND STRIPING PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
8	SS-2	SIGNING AND STRIPING PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
9	EC-1	EROSION CONTROL PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
10	EC-2	EROSION CONTROL PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
11	TC-1	TRAFFIC CONTROL PLANS	HILLERY DRIVE (STATION 10+00 TO 14+50)
12	TC-2	TRAFFIC CONTROL PLANS	HILLERY DRIVE (STATION 14+50 TO 18+00)
13	TC-3	TRAFFIC CONTROL PLANS	INT. OF HILLERY DRIVE AND RICKERT ROAD
14	S-1	RETAINING WALL PLANS	HILLERY DRIVE (STATION 10+00 TO 18+00)
15	S-2	RETAINING WALL PLANS	
16	S-3	RETAINING WALL PLANS	
17	S-4	RETAINING WALL PLANS	
18	S-5	RETAINING WALL PLANS	
19	S-6	RETAINING WALL PLANS	
20	S-7	RETAINING WALL PLANS	
21	E-1	TRAFFIC SIGNAL PLANS	INT. OF HILLERY DRIVE AND BLACK MTN ROAD
22	E-2	TRAFFIC SIGNAL PLANS	HILLERY DRIVE AND RICKERT ROAD
23	E-3	TRAFFIC SIGNAL PLANS	INT. OF HILLERY DRIVE AND RICKERT ROAD



KEY MAP
NO SCALE

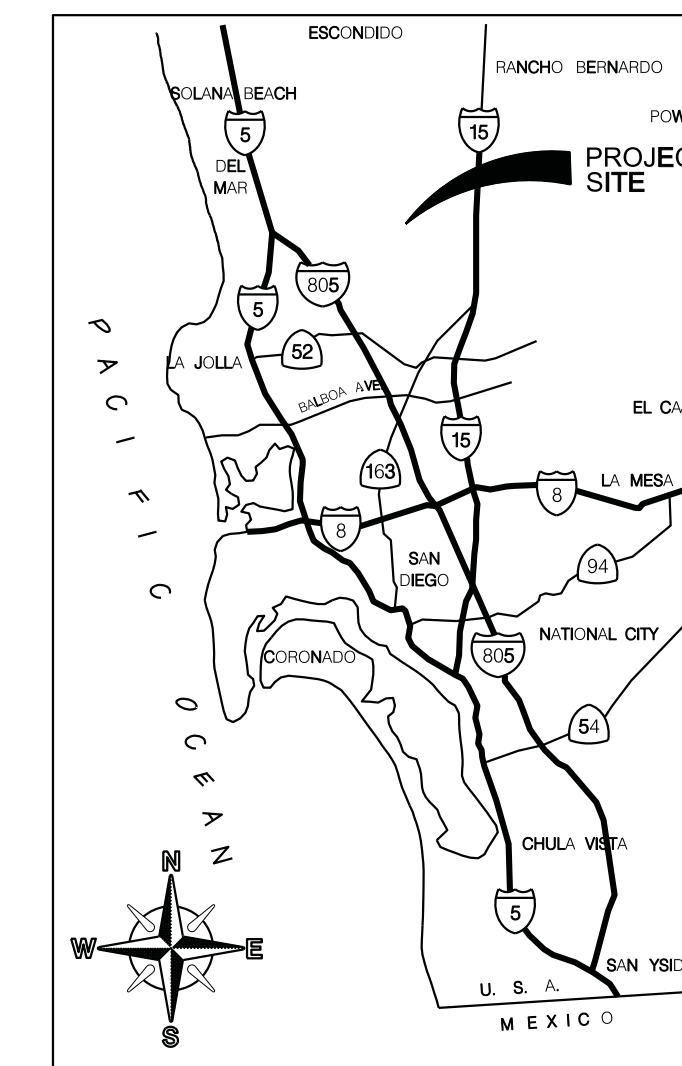
ABBREVIATIONS

ABAND	ABANDON	CO	CLEANOUT	HP	HIGH POINT	HMA-A	HOT MIX ASPHALT (TYPE A)
ABAND'D	ABANDONED	COND	CONDUIT	LP	LOW POINT	RHMA-G	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)
AC	ASPHALT CONCRETE	ECR	END CURB RETURN	LT	LEFT	CTB	CEMENT TREATED BASE
BC	BOTTOM OF CURB	EL	ELEVATION	PROP	PROPOSED		
BCR	BEGIN CURB RETURN	ELEC	ELECTRICAL	P/L	PROPERTY LINE		
BTWN	BETWEEN	EX	EXISTING	RT	RIGHT		
CATV	CABLE TV	FG	FINISH GRADE	R/W	RIGHT OF WAY		
CL	CENTER LINE	FL	FLOW LINE	TB	TOP OF BOX		
CI	CURB INLET	FS	FINISH SURFACE	TC	TOP OF CURB		
		GB	GRADE BREAK	UNK	UNKNOWN		

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE STANDARD SPECIFICATIONS AND THE STANDARD DRAWINGS OF THE CITY OF SAN DIEGO:

REMOVE PORTIONS OF EXISTING CONCRETE, ASPHALT PAVING AND LANDSCAPE IMPROVEMENTS ALONG HILLERY DRIVE AND REPLACE WITH NEW PAVING, OVERLAY, CONCRETE SIDEWALK AND RETAINING WALL. RELOCATE EXISTING CURB INLET ALONG HILLERY DRIVE AND INSTALL NEW CLEANOUT AT JUNCTION; REMOVE PORTIONS OF EXISTING PAVEMENT ALONG RICKERT ROAD AND INSTALL NEW PCC CHICANES. MODIFY SIGNAL AT INTERSECTIONS AND EXISTING STRIPING; INSTALL NEW RAISED, LIGHTED CROSSWALK ALONG HILLERY DRIVE; RECONSTRUCT EXISTING SIDEWALK, DRIVEWAY AND HARDSCAPE AT ADJACENT PARCEL; INSTALL NEW STREETLIGHTS; RECONSTRUCT VARIOUS ADA RAMPS AND PEDESTRIAN FACILITIES.



VICINITY MAP
NOT TO SCALE

GRADING QUANTITIES

DISTURBED AREA... 0.67 [ACRES] MAX. CUT DEPTH... 6.67 [FT]
CUT QUANTITIES... 310 [CY] MAX. FILL DEPTH... 5.00 [FT]
FILL QUANTITIES... 50 [CY] EXPORT... 260 [CY]

THIS PROJECT PROPOSES TO EXPORT 260 CUBIC YARDS OF MATERIAL FROM THIS SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED TO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

LEGEND

PROPOSED IMPROVEMENTS	STD DWG / REFERENCE	SYMBOL
CURB & GUTTER (TYPE G)	SDG-110, SDG-151	
PCC SIDEWALK	SDG-109, SDG-155	
RETAINING WALL	STRUCTURAL SHEETS	
ASPHALT PAVING	PER PLAN	
COLDMILL	SDG-106	
CURB INLET	DETAIL F, SHEET G-2	
SAWCUT		
CURB INLET (TYPE B-1)	SDD-116	
CLEANOUT (A-5)	D-9	
RCP STORM DRAIN (SIZE/TYPE PER PLAN)	SDD-100	
PROPOSED ELEVATION	436.65FS	
EXISTING ELEVATION	(436.65FS)	
FIRE HYDRANT	SDW-104	
EXISTING IMPROVEMENTS	REFERENCE	SYMBOL
WATER VALVE	N/A	
WATER METER	N/A	
FIRE HYDRANT	N/A	
SEWER MAIN & MANHOLES	N/A	
STORM DRAIN	N/A	
WATER	N/A	
TRAFFIC SIGNAL	N/A	
STREET LIGHT	N/A	
GAS MAIN	N/A	
ELECTRICAL, TELEPHONE, CABLE SERVICE	N/A	
EXISTING CONTOURS	N/A	

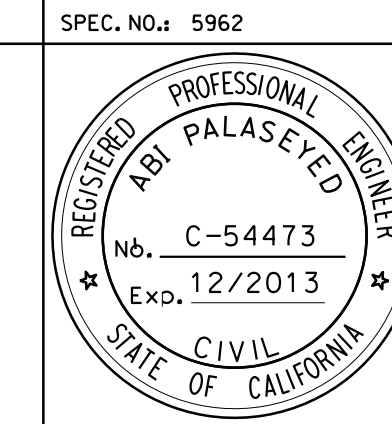
G-1

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS TITLE SHEET

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 1 OF 23 SHEETS

WBS S-11064

APPROVED <i>A. Palaseyed</i> FOR CITY ENGINEER ABI PALASEYED DATE 11/26/13	DATE	DATE	DATE	DATE
PROJECT MANAGER J. MANCHESTER	PROJECT ENGINEER B. OLSON	DATE STARTED	DATE COMPLETED	
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	JRM			
				270-1731 CCS27 COORDINATE
				1910444-6292407 CCS83 COORDINATE
CONTRACTOR				36647-01-D
INSPECTOR				



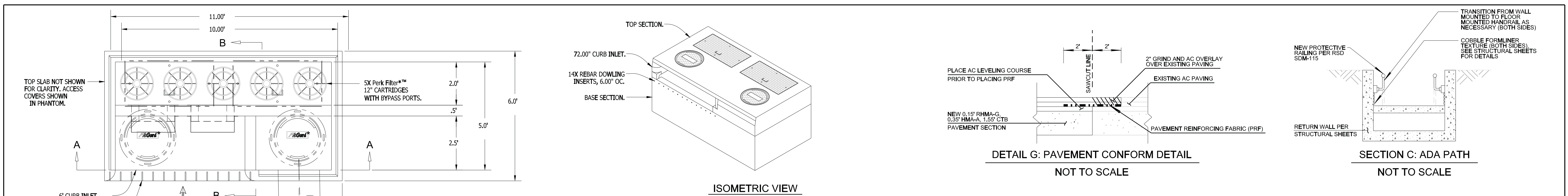
TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH --- MEDIUM --- LOW.X.. SPEC. No.: 5962



CITY OF SAN DIEGO PUBLIC WORKS PROJECT

CONSTRUCTION CHANGE / ADDENDUM				WARNING
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	
				0 1
				IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

HILLERY DRIVE IMPROVEMENTS



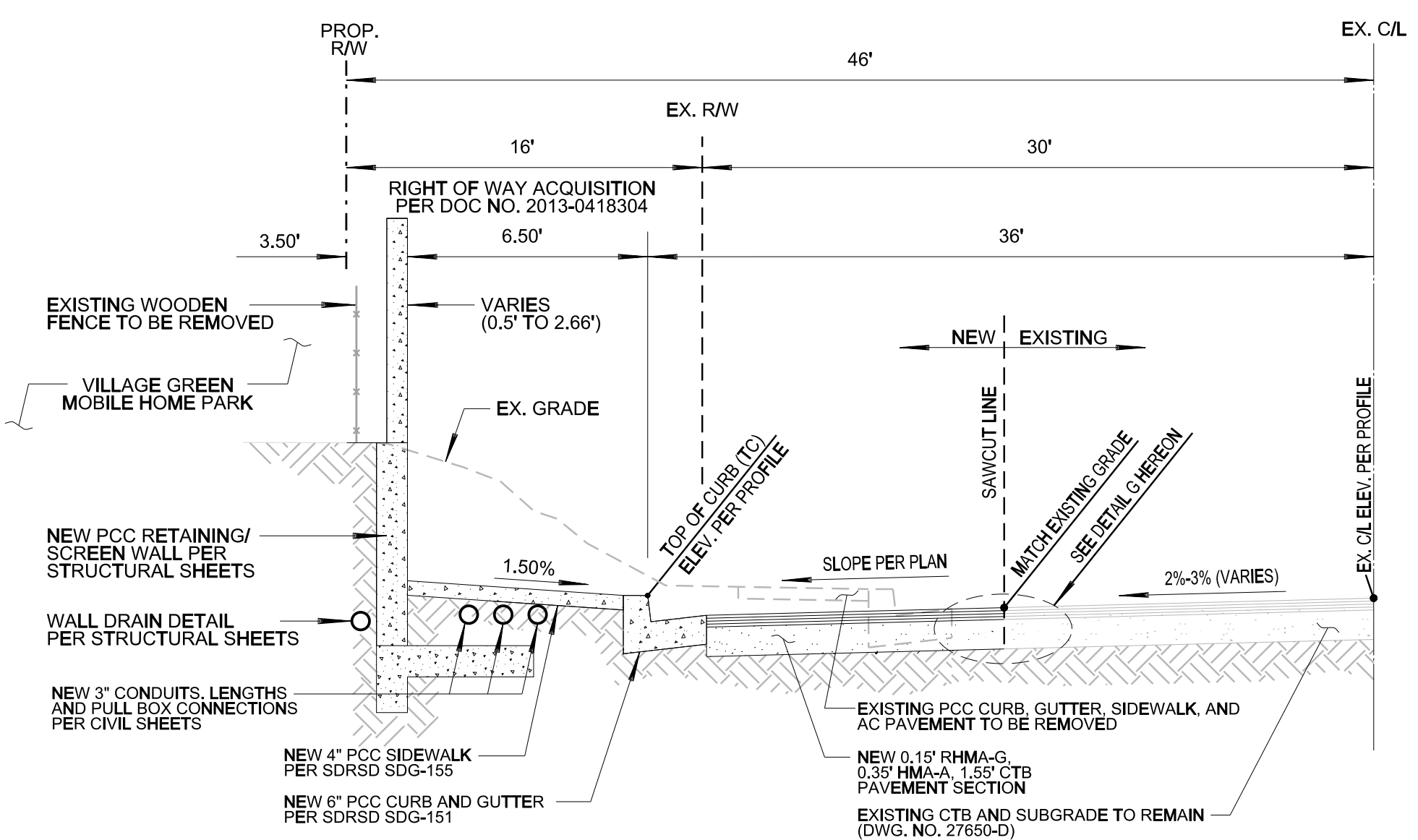
**Perk Filter™ Vault - 5'X10'
12\"/>**

- NOTE:
- MAXIMUM PICK WEIGHT: BASE SECTION = ~16,500 LBS/8.25 TONS. [RC] (BASE SECTION, ASSEMBLED WITH CARTRIDGES INSTALLED).
 - CONCRETE COMPONENTS ARE DESIGNED & MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION C857 & C858.
- *OR APPROVED EQUAL

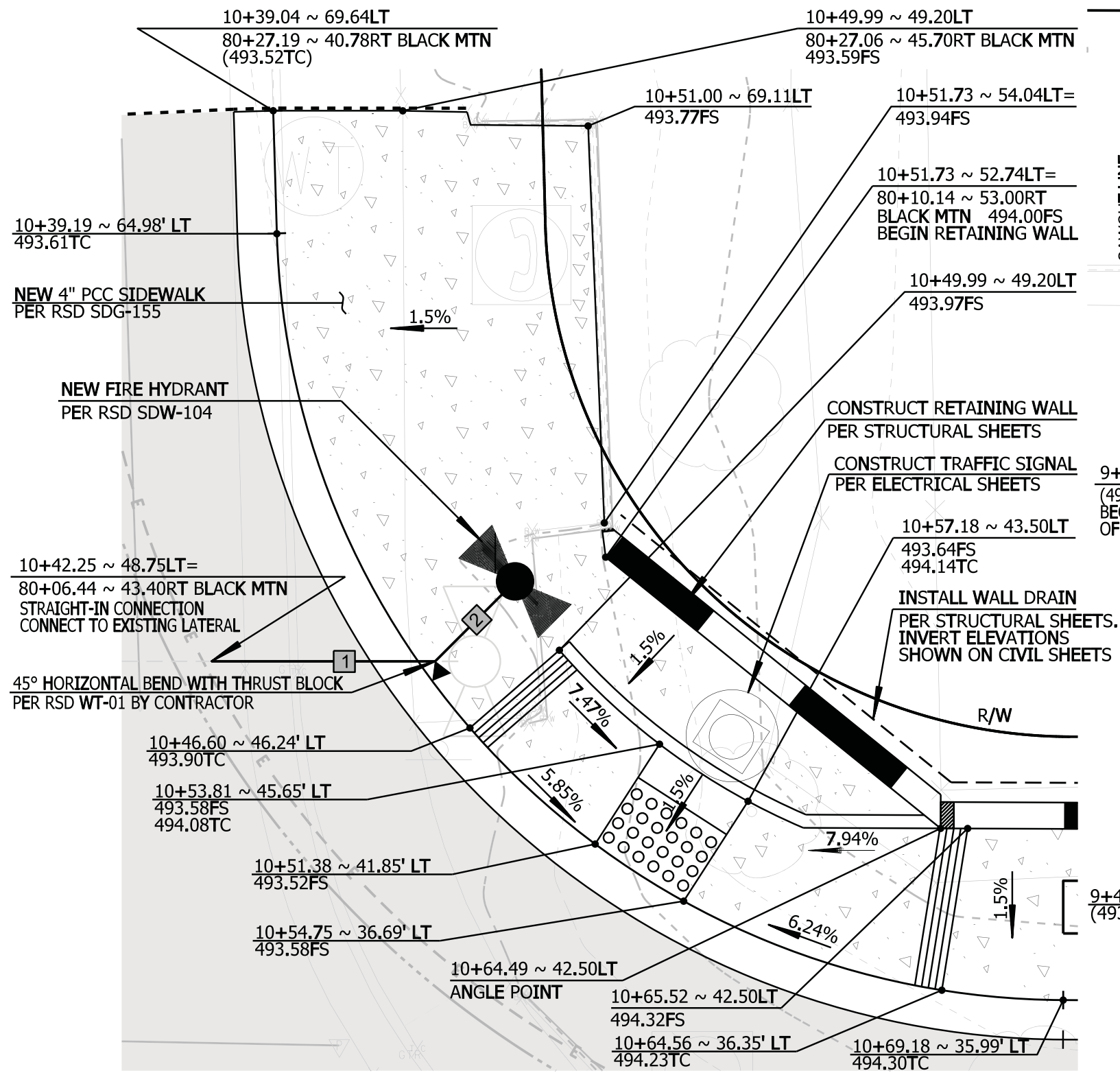
SECTION A-A

SECTION B-B

DETAIL F: PRECAST CURB INLET WITH TREATMENT DEVICE
NOT TO SCALE



SECTION A: HILLERY DRIVE (STA. 10+00 TO 15+83.70)
NOT TO SCALE

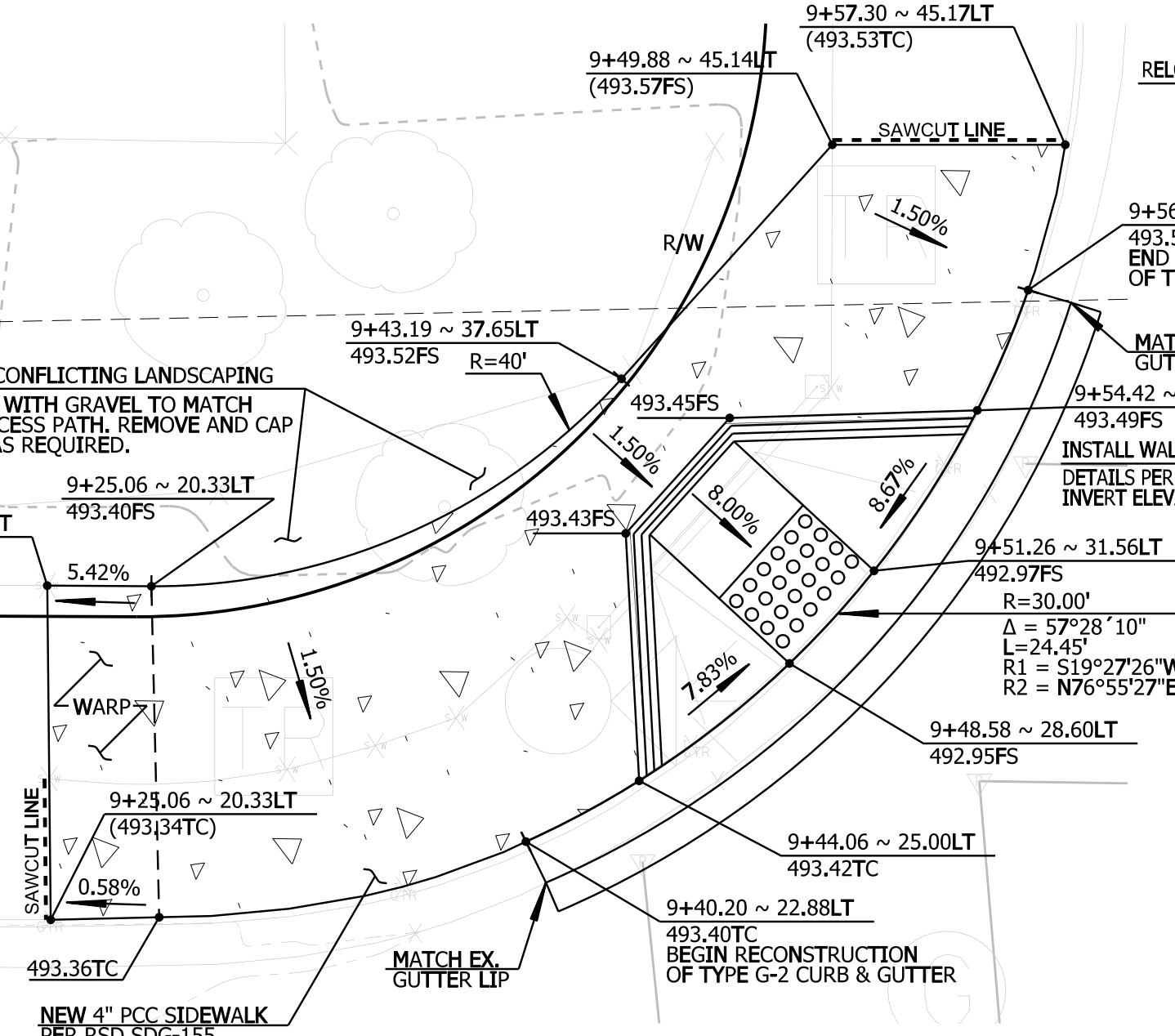


DETAIL A: MODIFIED CURB RAMP AND HYDRANT RELOCATION
SCALE: 1"=5'

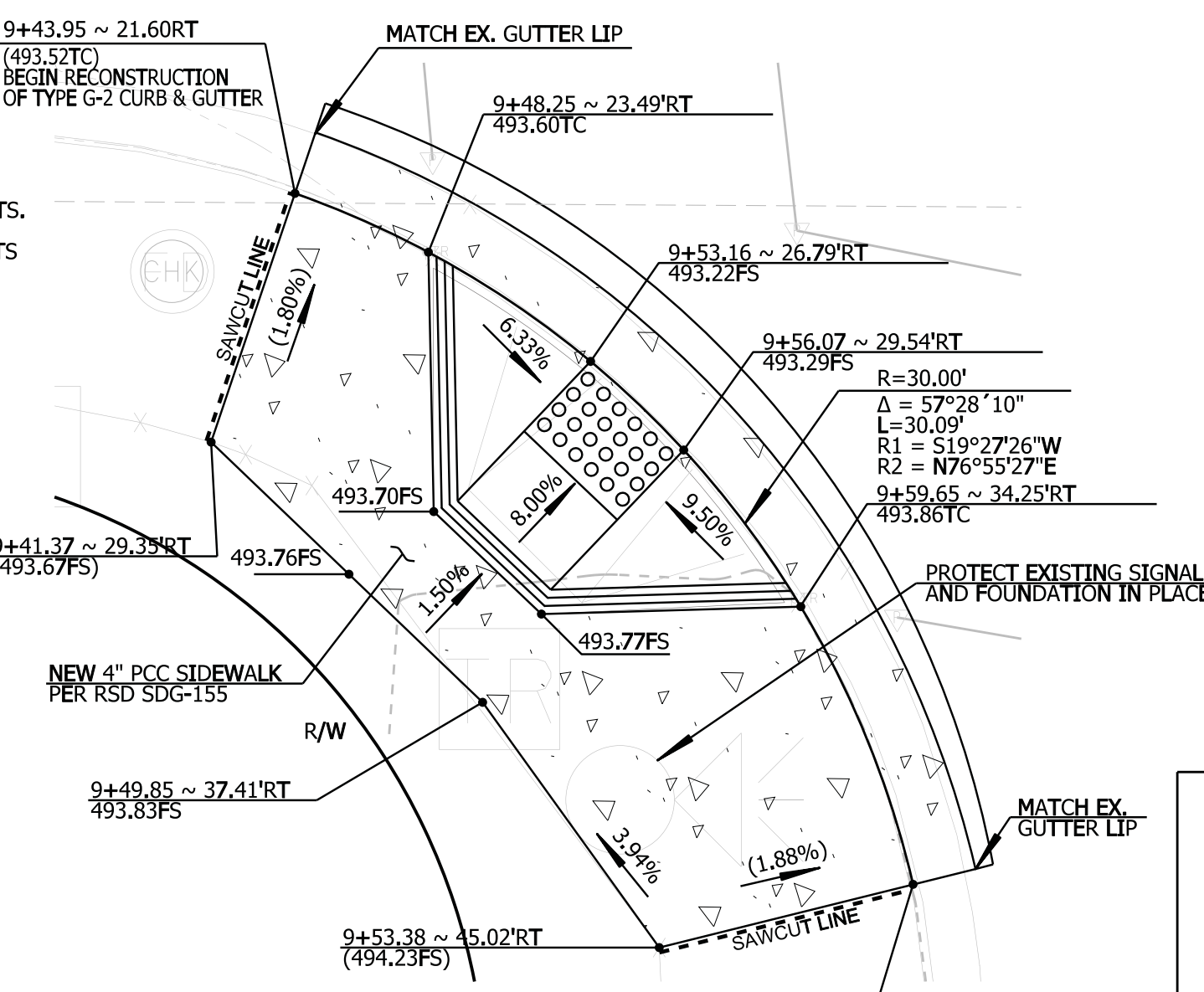
WATER DATA TABLE

NO.	DELTA / BEARING	RADIUS	LENGTH	DESCRIPTION
1	S 90° 00' 00" E	-	8.50'	6" PVC C900-07, CL-200
2	N 45° 00' 00" E	-	5.00'	6" PVC C900-07, CL-200

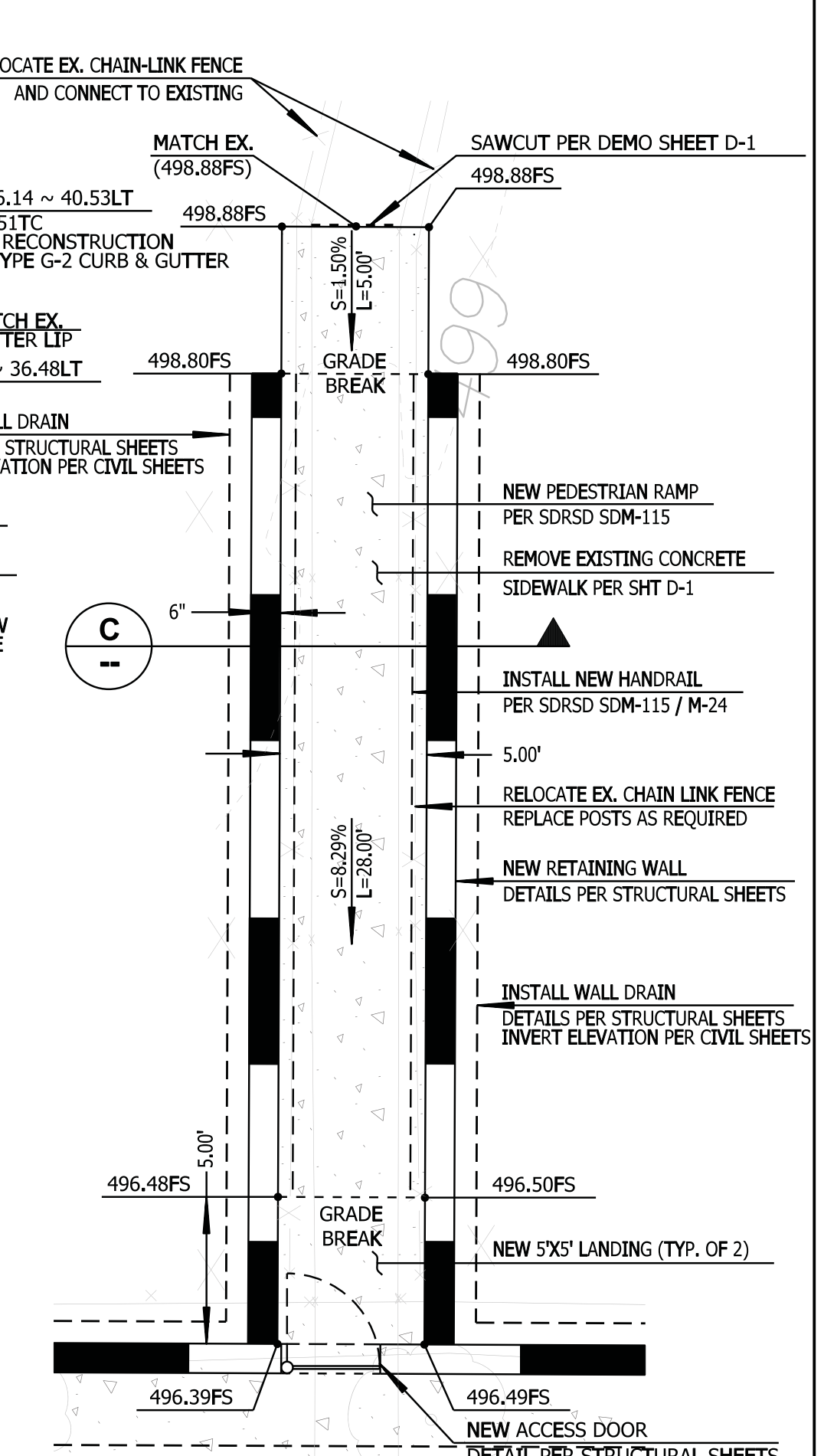
- NOTES:
- NEW FIRE HYDRANT LATERAL SHALL MAINTAIN A MINIMUM DEPTH OF COVER EQUAL TO 42". FOR FIRE HYDRANT ASSEMBLY, REFER TO RSD SDW-104.
 - CONTRACTOR SHALL OBTAIN PERMISSION TO GRADE LETTER(S)/RIGHT OF ENTRY PERMIT(S) PRIOR TO COMMENCING ANY WORK OUTSIDE OF CITY OF SAN DIEGO RIGHT OF WAY.



DETAIL I: CURB RAMP
SCALE: 1"=5'



DETAIL H: CURB RAMP
SCALE: 1"=5'



DETAIL B: ADA PATH TO VILLAGE PARK
SCALE: 1"=5'

- NOTES:
- HANDRAIL SHOWN SHALL BE POST-MOUNT EXCEPT IN AREAS ADJACENT TO PROPOSED RETAINING WALL WHERE A WALL-TYPE HANDRAIL SHALL BE USED PER SDRSD M-24 / SDM-115.
 - PATH OF TRAVEL ALONG PEDESTRIAN RAMP SHALL MAINTAIN MINIMUM CLEAR DISTANCE OF 48".
 - CONTRACTOR SHALL OBTAIN PERMISSION TO GRADE BEFORE COMMENCING ANY WORK OUTSIDE OF CITY OF SAN DIEGO RIGHT OF WAY.

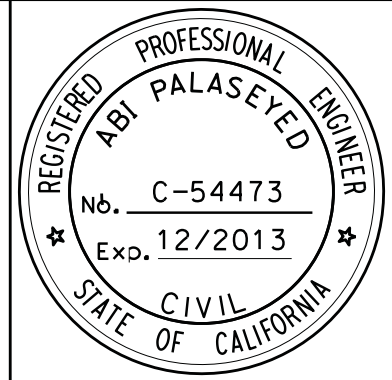
PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS
NOTES AND DETAILS

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 2 OF 23 SHEETS

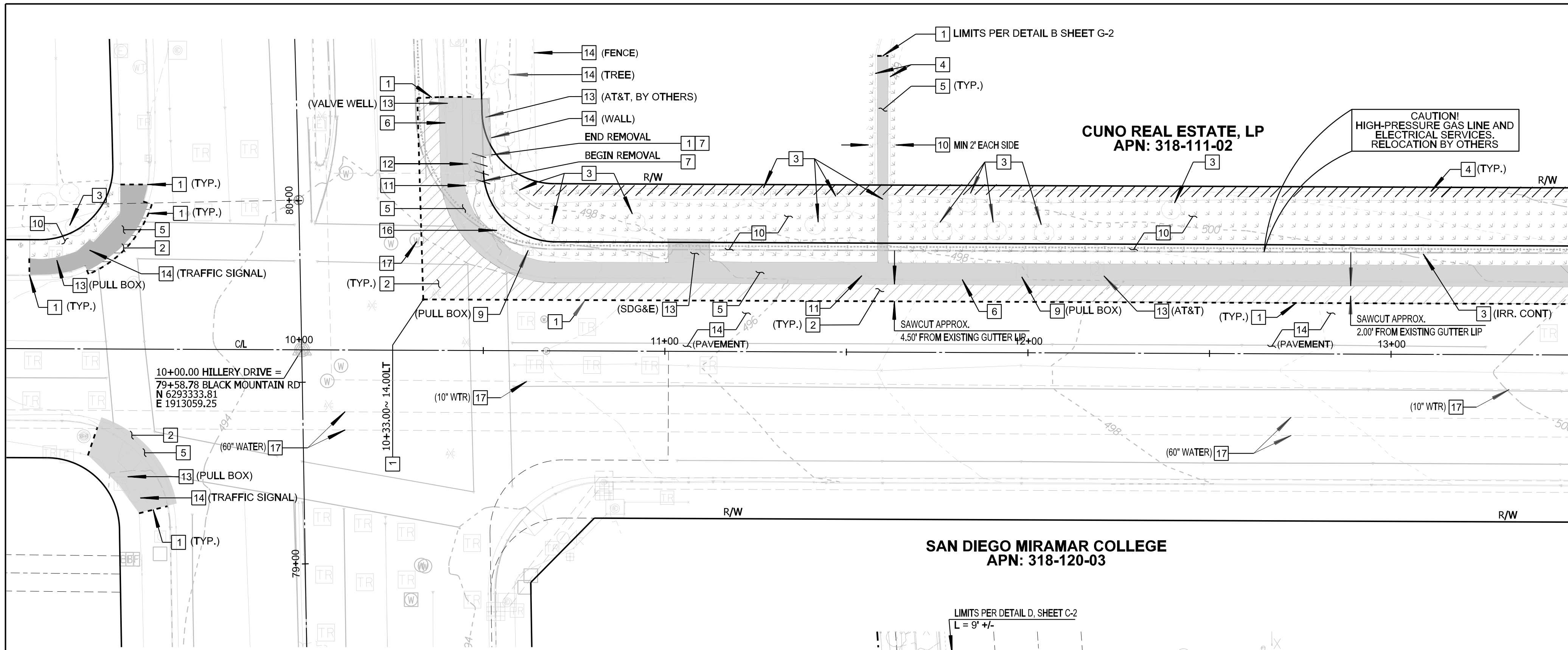
APPROVED BY: <i>A. Palaseyed</i> 11/26/13 FOR CITY ENGINEER ABI PALASEYED DATE	DATE	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	JRM	
		DATE
		FILMED
CONTRACTOR	DATE STARTED	
INSPECTOR	DATE COMPLETED	
		WBS S-11064
		B. OLSON PROJECT ENGINEER
		270-1731 COORDINATOR
		1910444-6292407 COORDINATOR
		36647-02-D

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

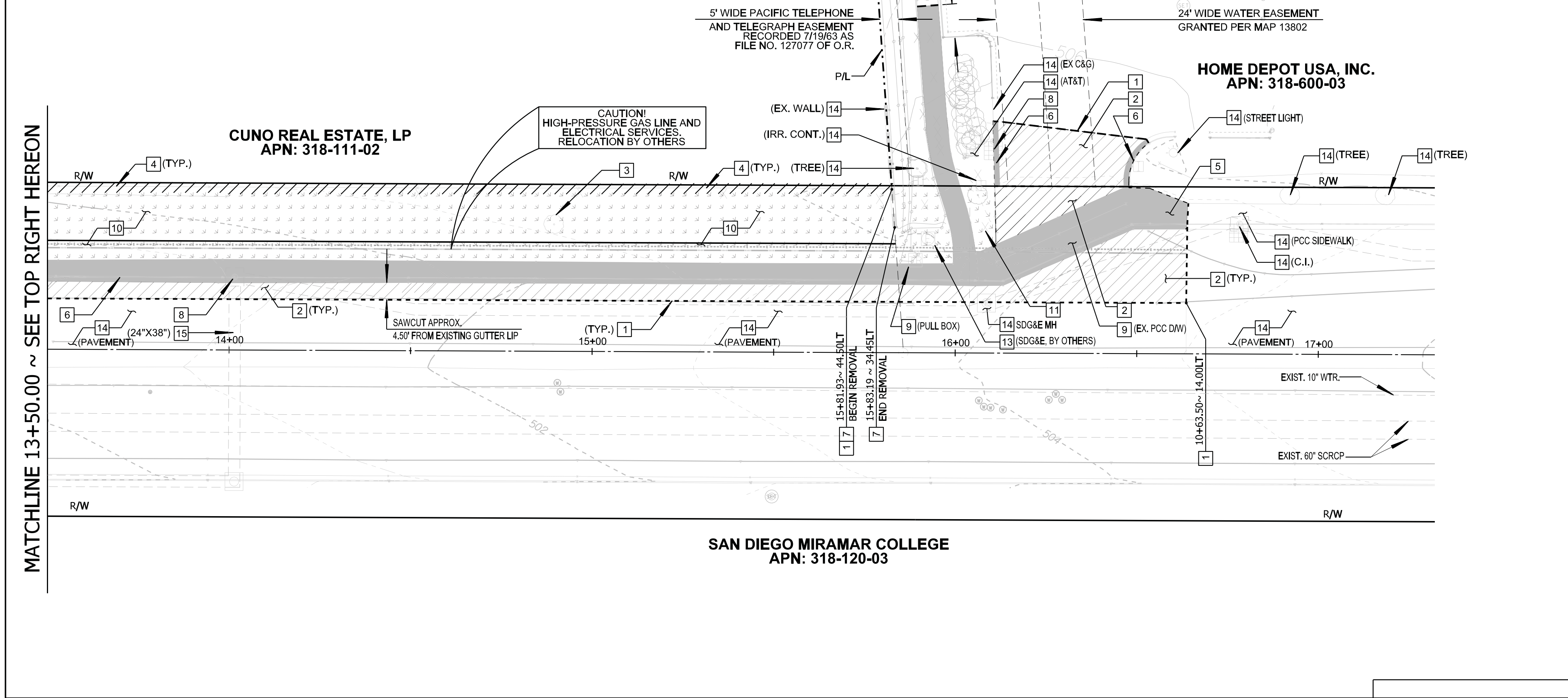
**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



HILLERY DRIVE IMPROVEMENTS



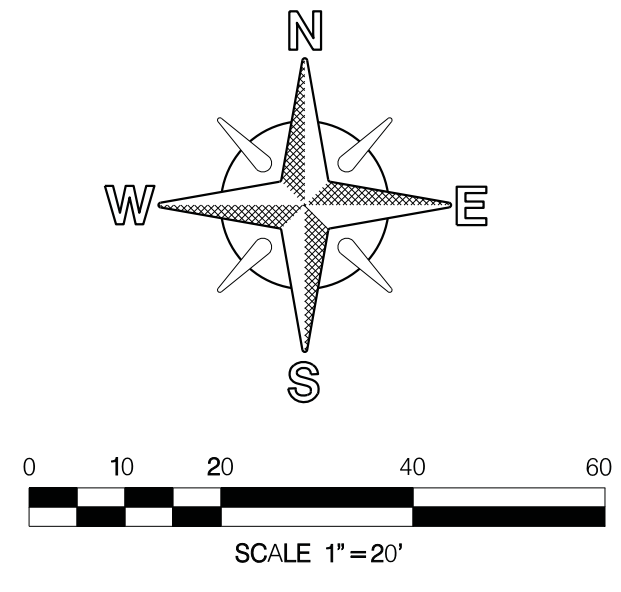
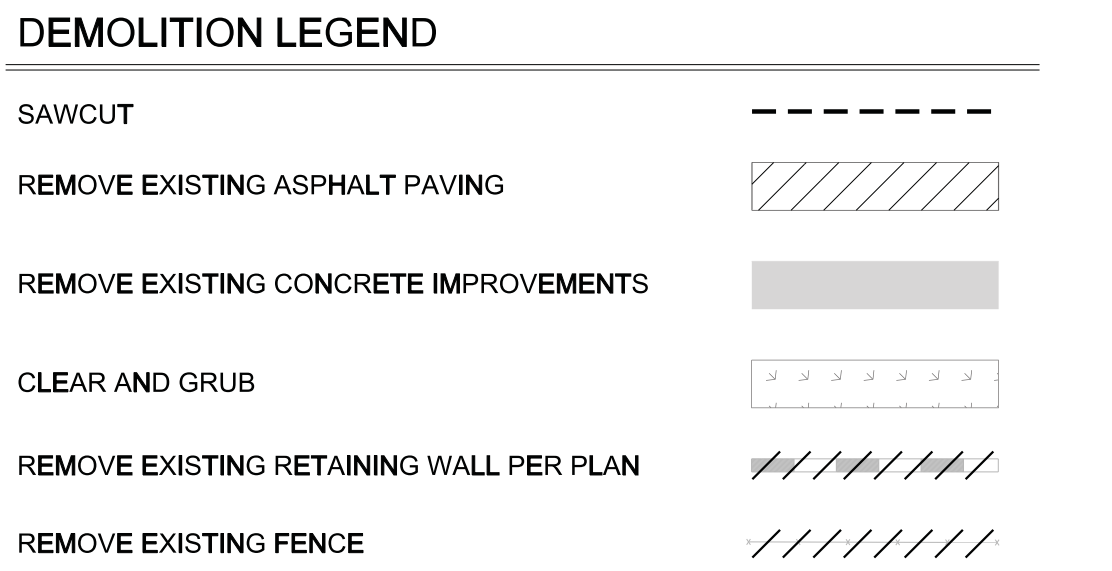
MATCHLINE 13+50.00 ~ SEE BOTTOM LEFT HEREON



MATCHLINE 13+50.00 ~ SEE TOP RIGHT HEREON

- ### DEMOLITION NOTES
- 1 SAWCUT EXISTING IMPROVEMENT
 - 2 REMOVE EXISTING ASPHALT PAVING
 - 3 REMOVE EXISTING TREE
 - 4 REMOVE EXISTING FENCE
 - 5 REMOVE EXISTING SIDEWALK
 - 6 REMOVE EXISTING PCC CURB AND GUTTER
 - 7 REMOVE EXISTING RETAINING WALL. LIMITS SHOWN ON PLAN.
 - 8 REMOVE EXISTING CURB INLET
 - 9 REMOVE EXISTING IMPROVEMENT AS NOTED
 - 10 CLEAR AND GRUB AREA
 - 11 RELOCATE EXISTING TRAFFIC SIGN PER SIGNING AND STRIPING PLAN
 - 12 RELOCATE EXISTING FIRE HYDRANT PER SHEET C-1
 - 13 ADJUST/RELOCATE UTILITY TO GRADE. WORK BY OTHERS AS DENOTED ON PLAN
 - 14 PROTECT EXISTING IMPROVEMENT IN PLACE. TYPE DENOTED PER PLAN.
 - 15 PROTECT EXISTING RCP STORM DRAIN PIPE IN PLACE. SIZE PER PLAN.
 - 16 RELOCATE EXISTING TRAFFIC SIGNAL POLE PER ELECTRICAL SHEETS
 - 17 PROTECT EXISTING WATER GATE VALVE IN PLACE

- ### GENERAL NOTES
1. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES PRIOR TO COMMENCING EXCAVATION. LOCATIONS SHOWN ARE APPROXIMATE AND BASED ON FIELD SURVEY AND RESEARCH OF AVAILABLE INFORMATION.
 2. CONTRACTOR TO REMOVE, MODIFY AND CAP EXISTING IRRIGATION SYSTEM(S) AS REQUIRED TO CONSTRUCT PROPOSED IMPROVEMENTS. EXISTING IRRIGATION LINES NOT SHOWN FOR CLARITY.
 3. LIMITS OF DEMOLITION ARE APPROXIMATE ONLY AND SHOULD BE CROSS-REFERENCED WITH IMPROVEMENTS AS DETAILED ON CIVIL SHEETS.
 4. IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVED PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT IT SHALL BE REPAIRED OR REPLACED IN KIND.



D-1

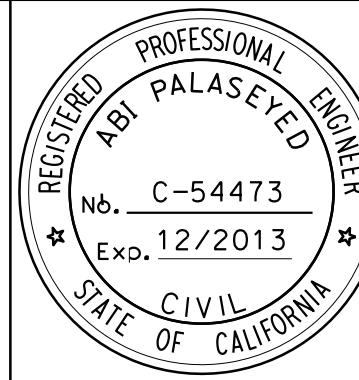
PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS DEMOLITION PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 3 OF 23 SHEETS		WBS <u>S-11064</u>		
APPROVED: <i>A. Palasey</i> 11/26/13 FOR CITY ENGINEER ABI PALASEY DATE		SUBMITTED BY: J. MANCHESTER PROJECT MANAGER B. OLSON PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	JRM			
270-1731 CCS27 COORDINATE 1910444-6292407 CCS83 COORDINATE				
CONTRACTOR		DATE STARTED		36647-03-D
INSPECTOR		DATE COMPLETED		

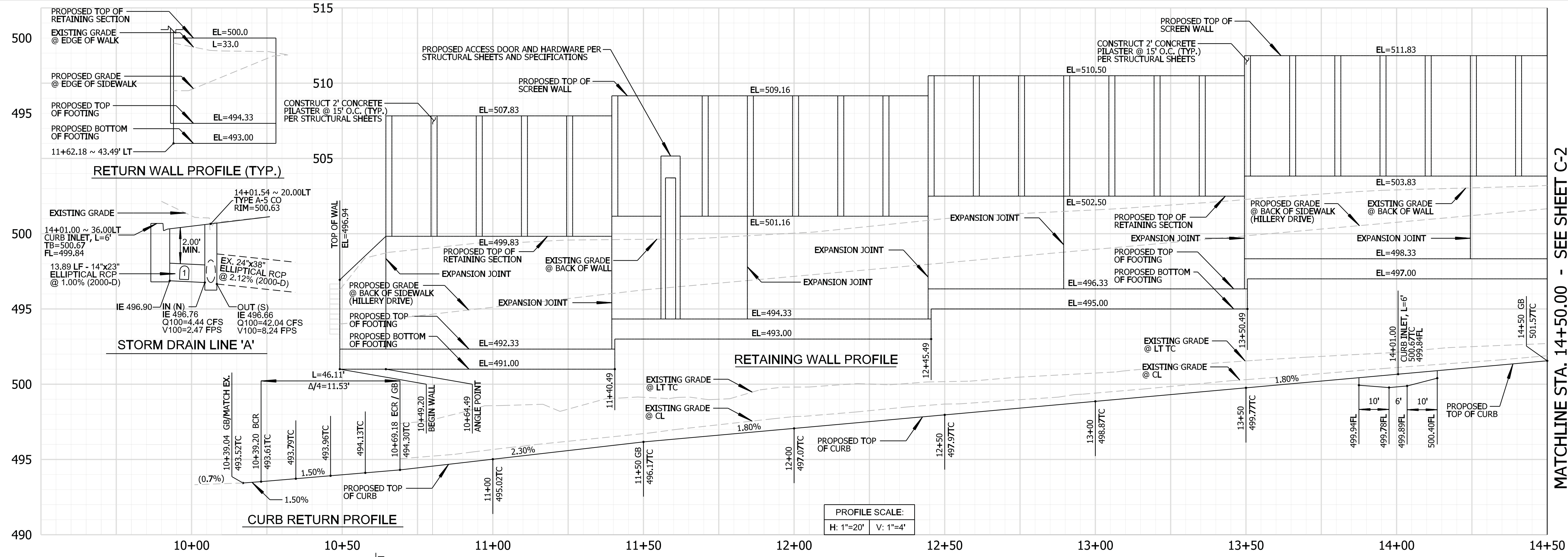
WARNING

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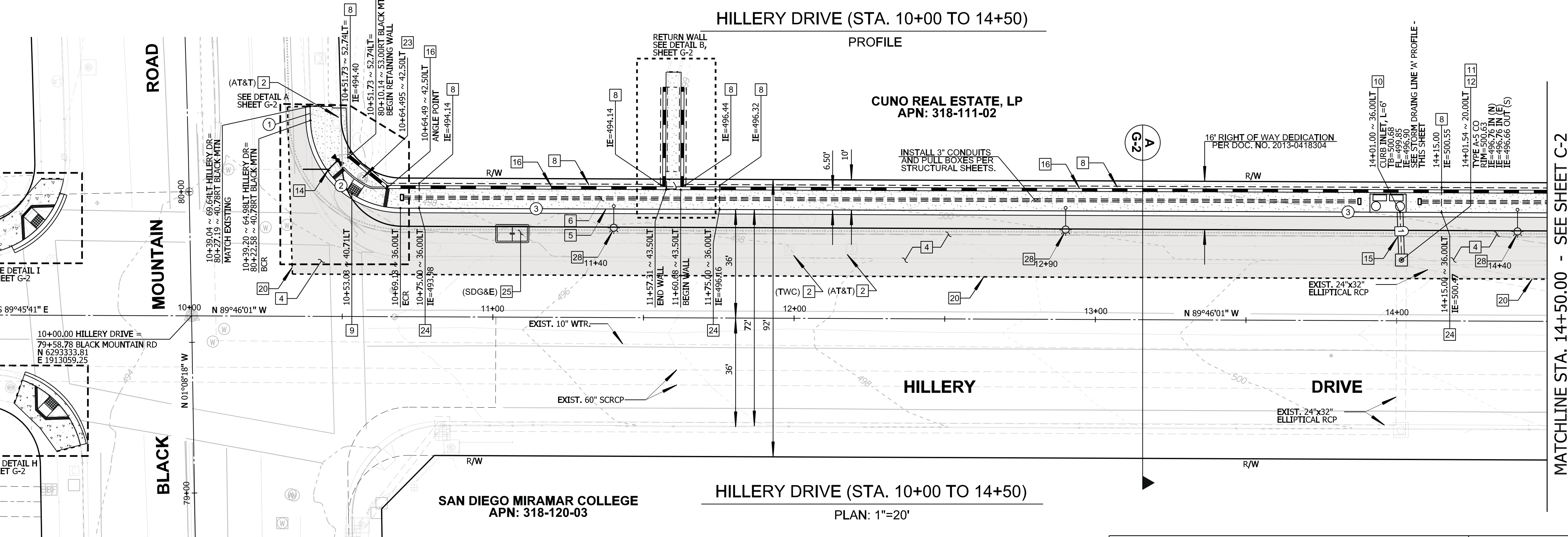
CITY OF SAN DIEGO PUBLIC WORKS PROJECT



HILLERY DRIVE IMPROVEMENTS



- CONSTRUCTION NOTES**
- MATCH EXISTING.
 - ADJUST EXISTING UTILITY TO GRADE (BY OTHERS).
 - ADJUST EXISTING VALVE TO GRADE.
 - CONSTRUCT 0.15' RHMA-G, 0.35' HMA-A, 1.55' CTB STREET SECTION. SEE DETAIL G, SHEET G-2.
 - CONSTRUCT 6" PCC CURB AND GUTTER PER RSD SDG-151.
 - CONSTRUCT 4" PCC SIDEWALK PER RSD SDG-155.
 - CONSTRUCT STREET LIGHT PER RSD SDE-101.
 - INSTALL RETAINING WALL SUB-DRAIN. INVERT ELEVATION DENOTED ON PLAN. SEE STRUCTURAL SHEETS FOR DETAILS.
 - CONSTRUCT MODIFIED TYPE C-1 CURB RAMP PER DETAIL A, SHEET G-2.
 - CONSTRUCT CURB INLET PER DETAIL F, SHEET G-2.
 - CONSTRUCT TYPE A-5 CLEANOUT PER RSD D-9.
 - CONNECT TO EXISTING STORM DRAIN SYSTEM.
 - CONSTRUCT NEW PCC DRIVEWAY PER RSD SDG-159. LENGTH PER PLAN.
 - CONSTRUCT NEW FIRE HYDRANT ASSEMBLY PER RSD SDW-104. SEE DETAIL A, SHEET G-2.
 - INSTALL 14"x23" ELLIPTICAL RCP STORM DRAIN (2000-D). SEE LINE 'A' PROFILE HEREON.
 - CONSTRUCT RETAINING WALL PER STRUCTURAL SHEETS. WALL PROFILE SHOWN HEREON.
 - PROTECT IN PLACE. IMPROVEMENT NOTED ON PLAN.
 - REMOVE EXISTING LANDSCAPING AND CAP IRRIGATION SERVICES AS REQUIRED.
 - ADJUST EXISTING UTILITY TO FINISH GRADE. EXISTING TYPE AND LOCATION NOTED ON PLAN.
 - SAWCUT LINE PER SHEET D-1.
 - RELOCATE EXISTING TRAFFIC SIGN AS SHOWN.
 - CONSTRUCT TYPE G CURB AND GUTTER PER RSD SDG-151. TRANSITION FROM 6" TO 0" CURB PER DETAIL E.
 - RELOCATE AND MODIFY EXISTING TRAFFIC SIGNAL AND APPURTENANCES PER ELECTRICAL SHEETS.
 - CONSTRUCT SIDEWALK UNDERDRAIN PER RSD D-27. ELEVATION PER PLAN.
 - NEW UTILITY VAULT TO BE CONSTRUCTED BY OTHERS.
 - CONSTRUCT B-1 CURB INLET PER RSD SDD-116. LENGTH PER PLAN.
 - CONNECT TO PRIVATE 18" RCP STORM DRAIN PIPE. CONTRACTOR TO MODIFY PIPE AS REQUIRED BY LOCATION OF NEW CURB INLET.
 - CONSTRUCT NEW STREET LIGHT STANDARD PER SDE-101. SEE ELECTRICAL SHEETS FOR DETAILS.



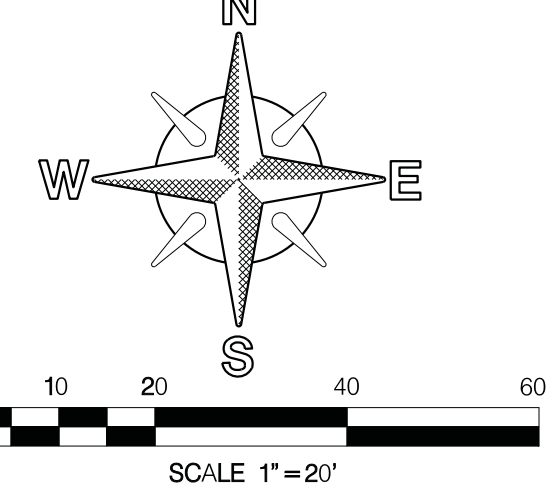
STORM DRAIN DATA TABLE

DELTA / BEARING	RADIUS	LENGTH	DESCRIPTION
1 S 1° 56' 45" E	-	13.89'	14"x23" RCP (2000-D)

CURB DATA TABLE

DELTA / BEARING	RADIUS	LENGTH	DESCRIPTION
1 N 1° 42' 11" W	-	4.66'	TYPE 'G' C&G
2 Δ = 88° 3' 50"	30.00'	46.11'	TYPE 'G' C&G
3 S 89° 46' 1" E	-	380.82'	TYPE 'G' C&G

- GENERAL NOTES**
- CONTRACTOR SHALL OBTAIN NECESSARY CLEARANCE AND ANY REQUIRED PERMITS FROM PROPERTY OWNER(S) BEFORE COMMENCING ANY PORTION OF WORK OUTSIDE OF THE CITY OF SAN DIEGO RIGHT-OF-WAY.
 - IF ANY EXISTING HARDSCAPE OR LANDSCAPE INDICATED ON THE APPROVED PLANS IS DAMAGED OR REMOVED DURING DEMOLITION OR CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THAT IT SHALL BE REPAIRED OR REPLACED IN KIND.



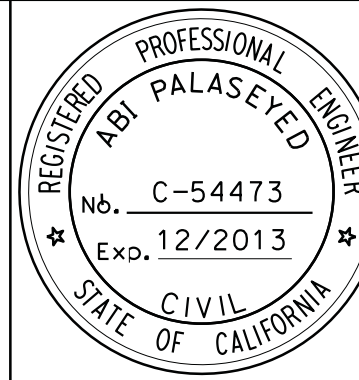
PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS IMPROVEMENT PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 4 OF 23 SHEETS		WBS S-11064
APPROVED: <i>A. Palaseyed</i> FOR CITY ENGINEER ABI PALASEYED DATE: 11/26/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER B. OLSON PROJECT ENGINEER	
DESCRIPTION ORIGINAL	BY JRM	APPROVED DATE FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
270-1731 CCS27 COORDINATE 19I0444-6292407 CCS83 COORDINATE		36647-04-D

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

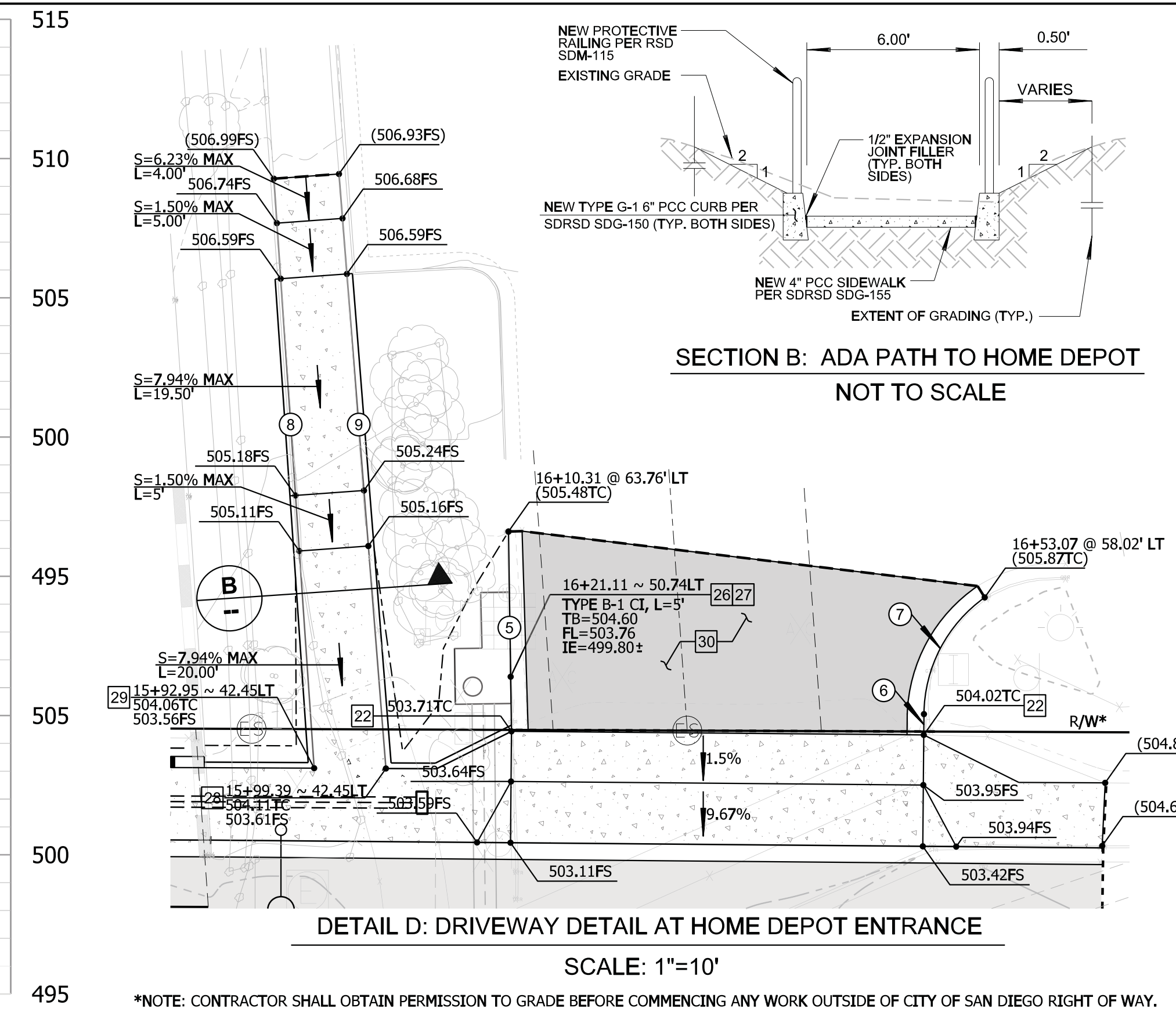
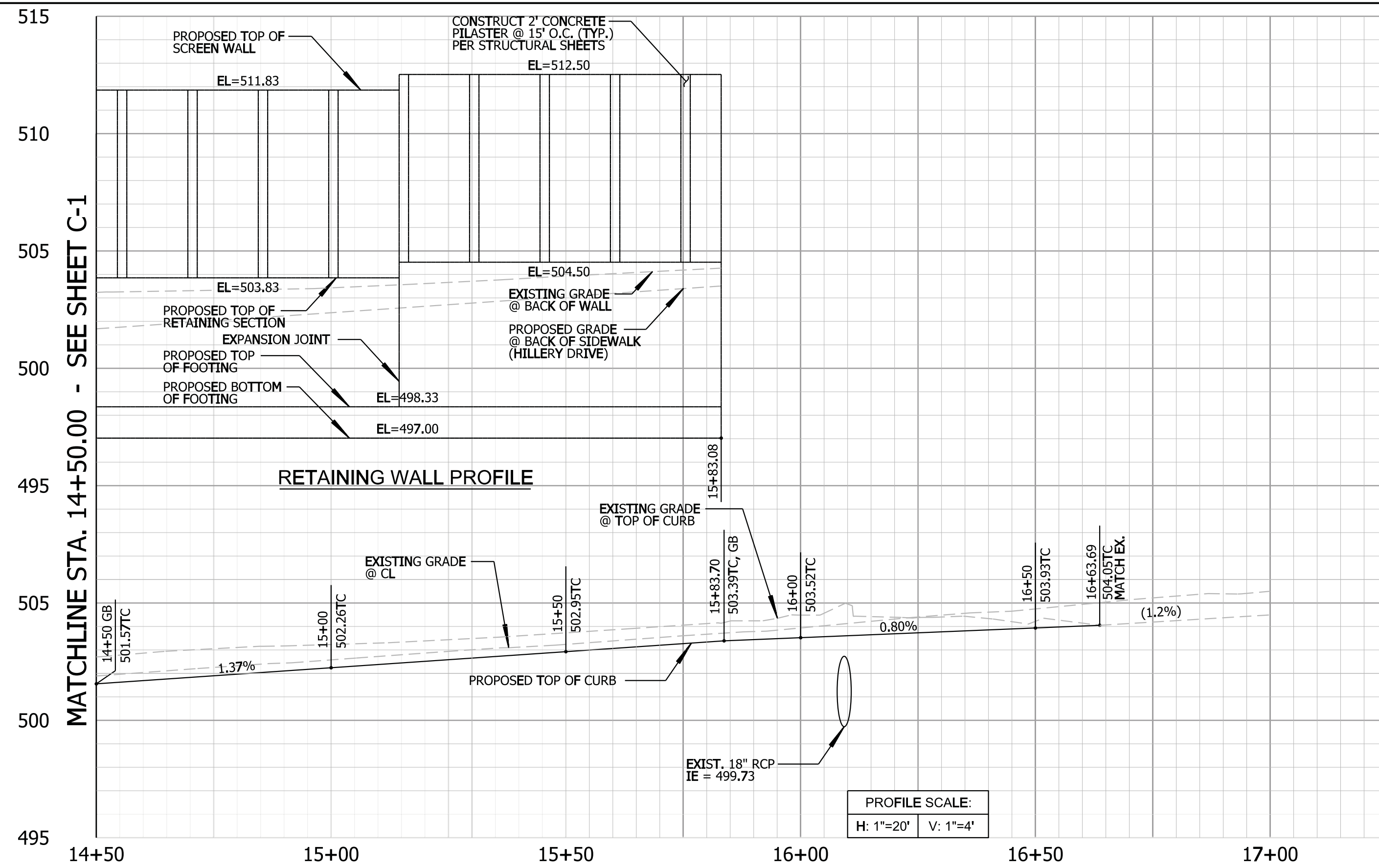
CITY OF SAN DIEGO PUBLIC WORKS PROJECT



HILLERY DRIVE IMPROVEMENTS

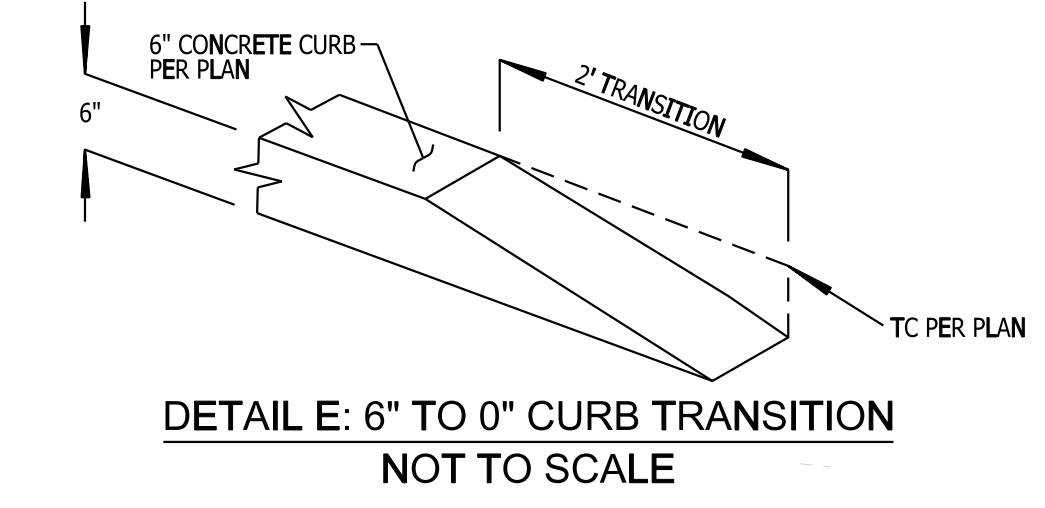
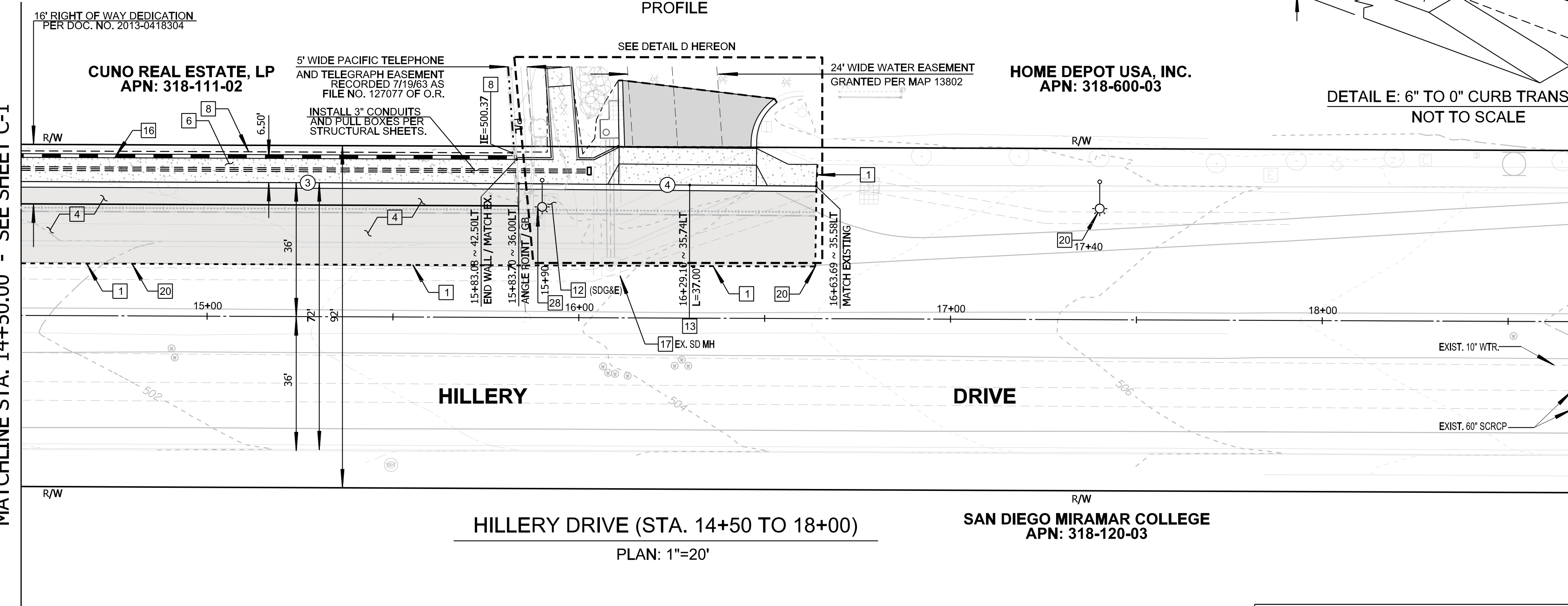
C-1

MATCHLINE STA. 14+50.00 - SEE SHEET C-2



- CONSTRUCTION NOTES**
- MATCH EXISTING.
 - ADJUST EXISTING UTILITY TO GRADE (BY OTHERS).
 - ADJUST EXISTING VALVE TO GRADE.
 - CONSTRUCT 0.15' RHMA-G, 0.35' HMA-A, 1.55' CTB STREET SECTION. SEE DETAIL G, SHEET G-2.
 - CONSTRUCT 6" PCC CURB AND GUTTER PER RSD SDG-151.
 - CONSTRUCT 4" PCC SIDEWALK PER RSD SDG-155.
 - CONSTRUCT STREET LIGHT PER RSD SDE-101.
 - INSTALL RETAINING WALL SUB-DRAIN. INVERT ELEVATION DENOTED ON PLAN. SEE STRUCTURAL SHEETS FOR DETAILS. CONSTRUCT MODIFIED TYPE C-1 CURB RAMP PER DETAIL A, SHEET G-2.
 - CONSTRUCT CURB INLET PER DETAIL F, SHEET G-2.
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 - CONNECT TO PRIVATE 18" RCP STORM DRAIN PIPE. CONTRACTOR TO MODIFY PIPE AS REQUIRED BY LOCATION OF NEW CURB INLET.
 - CONSTRUCT NEW STREET LIGHT STANDARD PER SDE-101. SEE ELECTRICAL SHEETS FOR DETAILS.
 - CONSTRUCT 6" PCC CURB PER RSD SDG-150
 - CONSTRUCT SCHEDULE J PAVING PER RSD SDG-113.

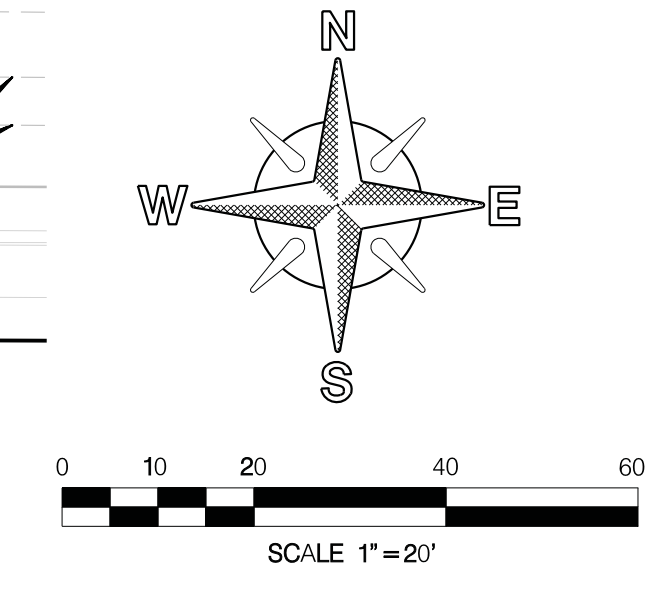
HILLERY DRIVE (STA. 14+50 TO 17+00)
PROFILE



CURB DATA TABLE

Δ	DELTA / BEARING	RADIUS	LENGTH	DESCRIPTION
3	S 89° 46' 1" E	-	213.69'	TYPE 'G' C&G
4	S 89° 30' 8" E	-	80.00'	TYPE 'G' C&G
5	S 0° 50' 59" E	-	17.94'	TYPE 'G' C&G
6	S 0° 29' 52" W	-	1.87'	TYPE 'G' C&G
7	Δ = 54° 1' 17"	13.0'	12.26'	TYPE 'G' C&G
8	S 3° 54' 35" E	-	44.04'	TYPE 'G-1' C&G
9	S 4° 30' 50" E	-	44.54'	TYPE 'G-1' C&G

- GENERAL NOTES**
- CONTRACTOR SHALL OBTAIN NECESSARY CLEARANCE AND ANY REQUIRED PERMITS FROM PROPERTY OWNER(S) BEFORE COMMENCING ANY PORTION OF WORK OUTSIDE OF THE CITY OF SAN DIEGO RIGHT-OF-WAY.
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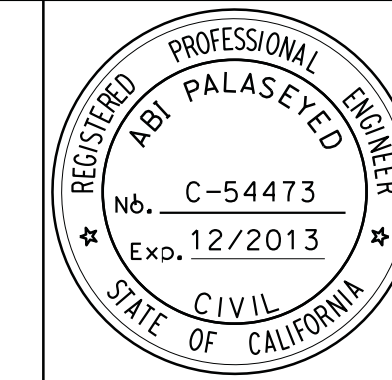
PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS IMPROVEMENT PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 5 OF 23 SHEETS		WBS S-11064
APPROVED FOR CITY ENGINEER ABI PALASEYED DATE: 11/26/13	SUBMITTED BY J. MANCHESTER PROJECT MANAGER	
DESCRIPTION ORIGINAL	BY JRM	APPROVED DATE FILMED
		270-1731 CCS27 COORDINATE
		19I0444-6292407 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36647-05-D
INSPECTOR	DATE COMPLETED	

WARNING

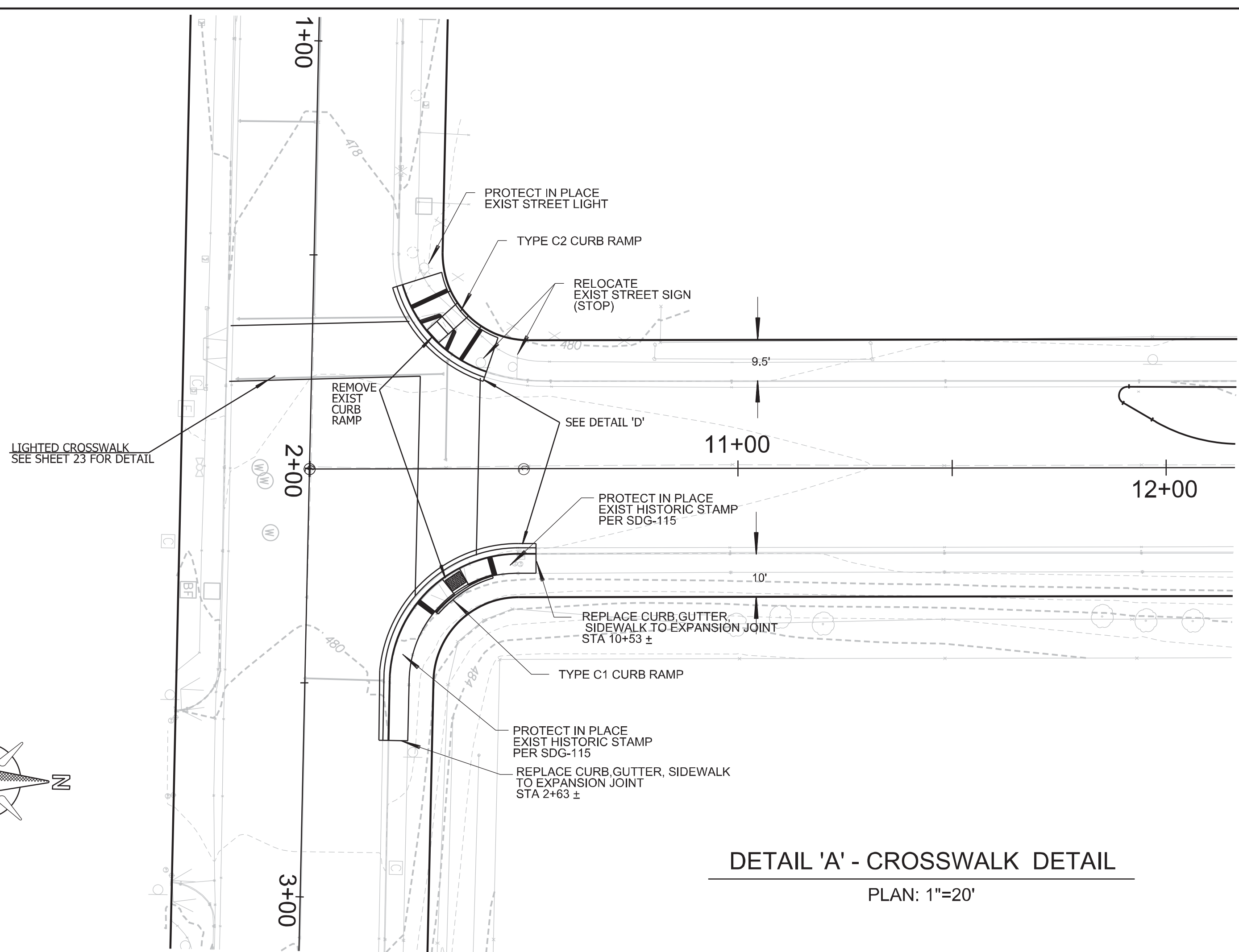
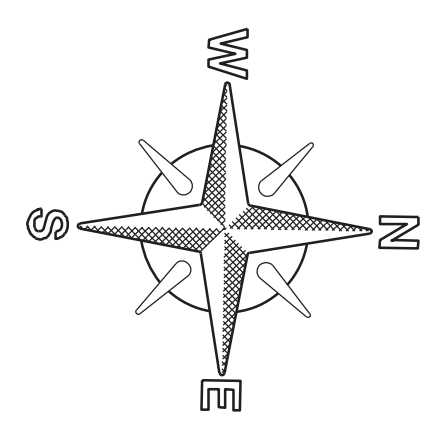
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO PUBLIC WORKS PROJECT

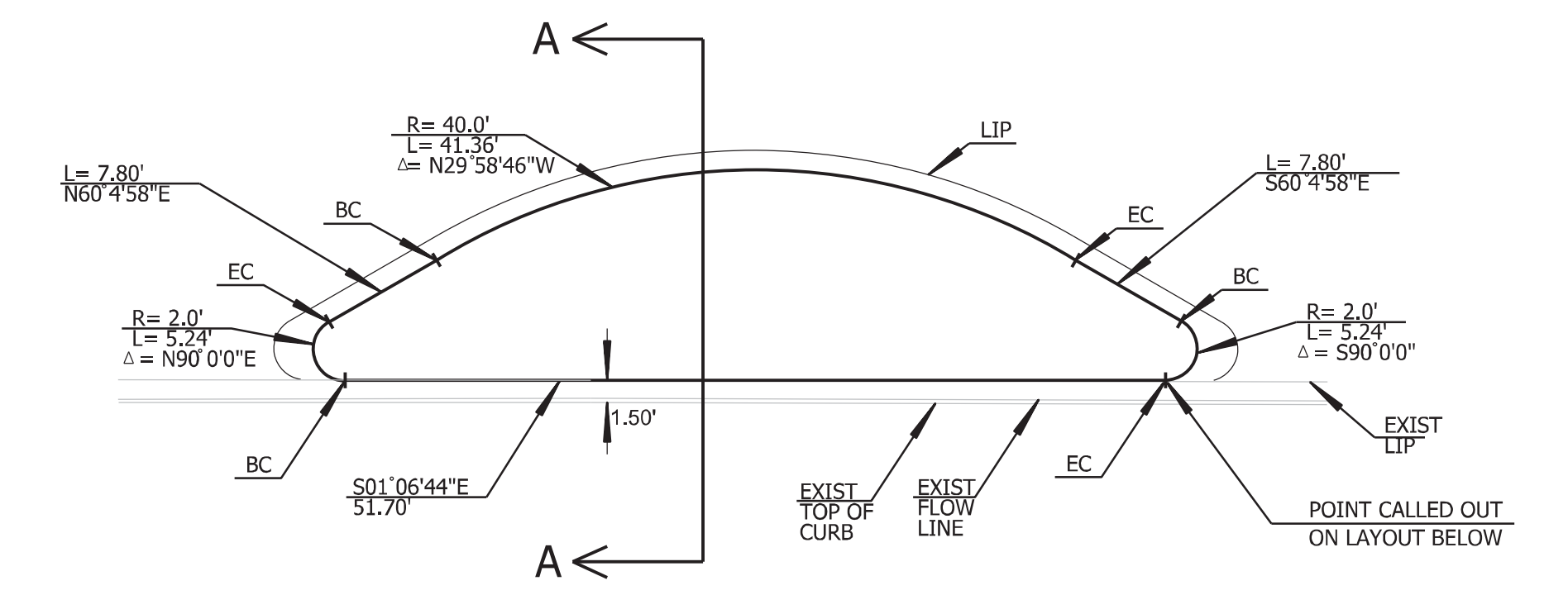


HILLERY DRIVE IMPROVEMENTS

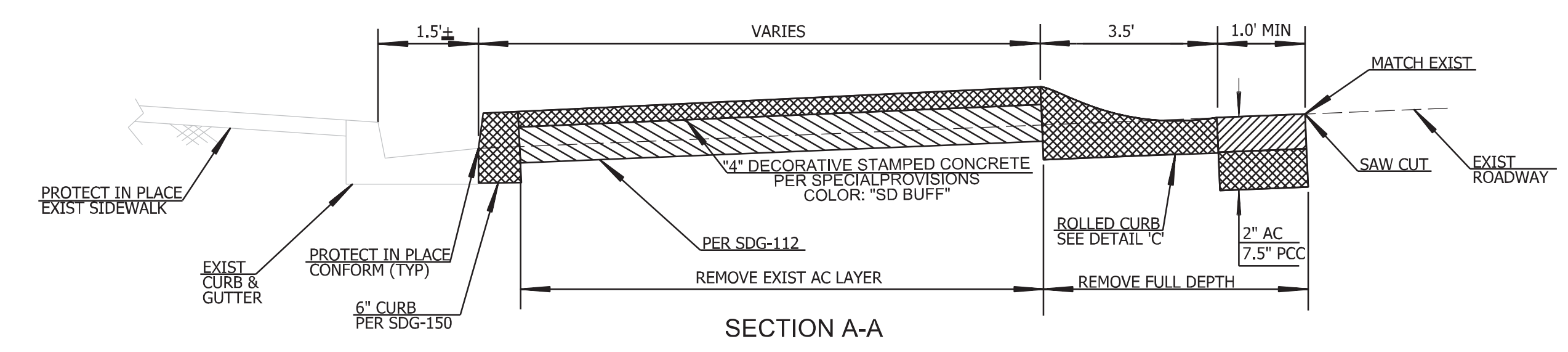
C-2



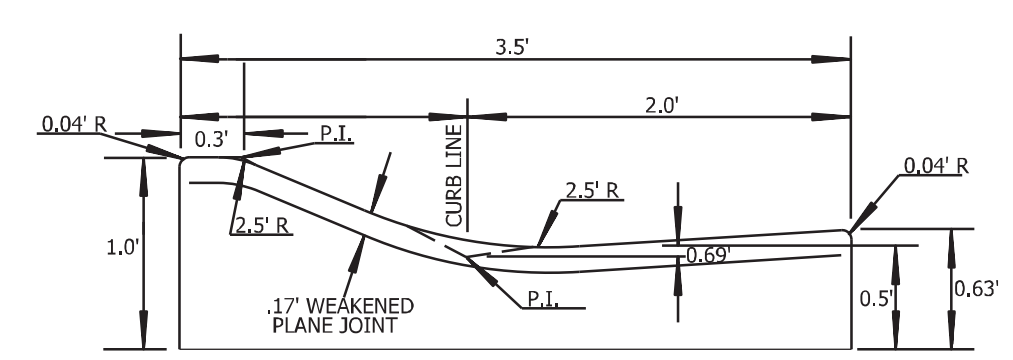
DETAIL 'A' - CROSSWALK DETAIL
PLAN: 1"=20'



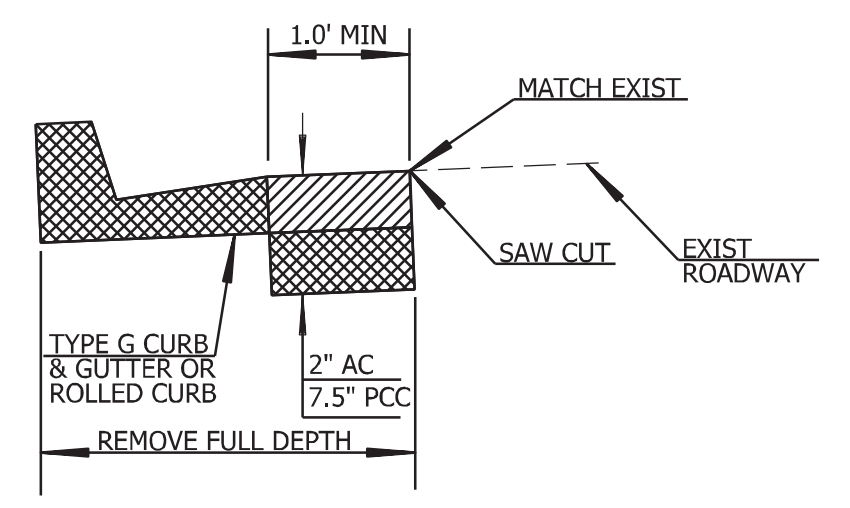
DETAIL 'B' - CHICANE (PLAN VIEW)
PLAN: 1" = 10'



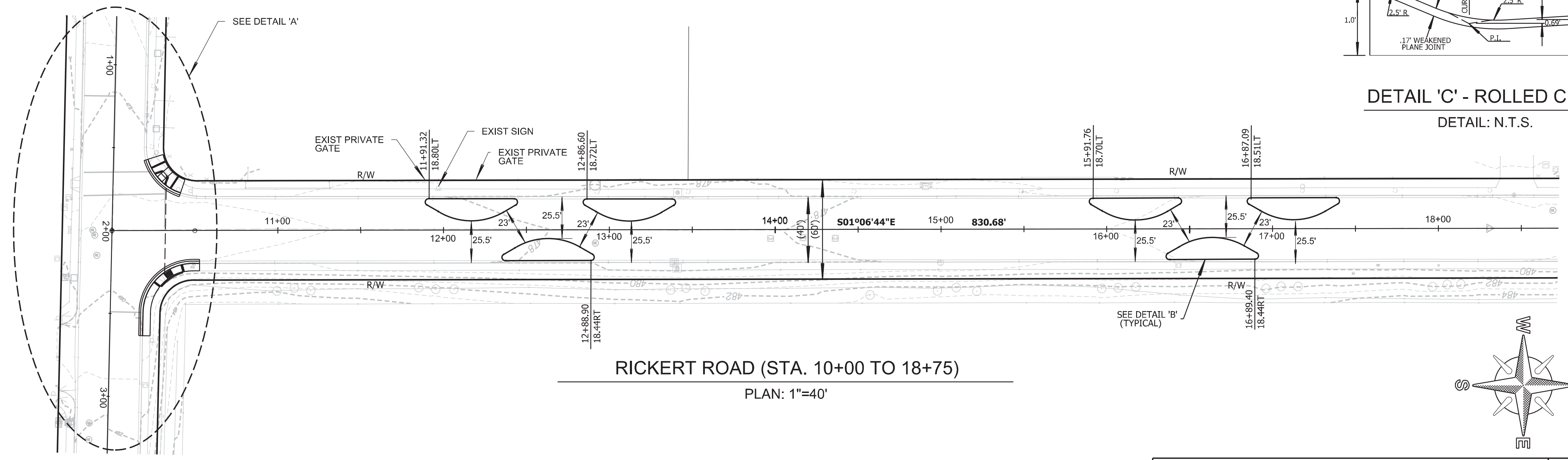
DETAIL 'B' - CHICANE (TYPICAL SECTION)
DETAIL: N.T.S.



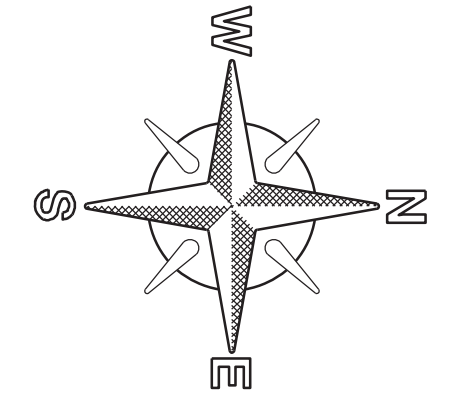
DETAIL 'C' - ROLLED CURB
DETAIL: N.T.S.



DETAIL 'D' - PAVEMENT CONFORM DETAIL
DETAIL: N.T.S.



RICKERT ROAD (STA. 10+00 TO 18+75)
PLAN: 1"=40'



C-3

PLANS FOR THE CONSTRUCTION OF
HILLERY DRIVE IMPROVEMENTS
STREET IMPROVEMENT PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 6 OF 23 SHEETS

WBS S-11064

APPROVED: <i>A. Palacios</i> FOR CITY ENGINEER ABI PALACIOS DCE NAME	DATE 11/22/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
DESCRIPTION ORIGINAL	BY GHD	PROJECT ENGINEER B. OLSON
	APPROVED	270-1731
	DATE	CCS27 COORDINATE
	FILED	1910444-6292407
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36647-06-D
INSPECTOR	DATE COMPLETED	

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6705 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Gregory E. Campbell
GREGORY E. CAMPBELL C 59955 DATE: 7/22/13

WARNING



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
PUBLIC WORKS PROJECT



Gregory E. Campbell
GREGORY E. CAMPBELL C 59955
REGISTRATION EXPIRES 6/30/14

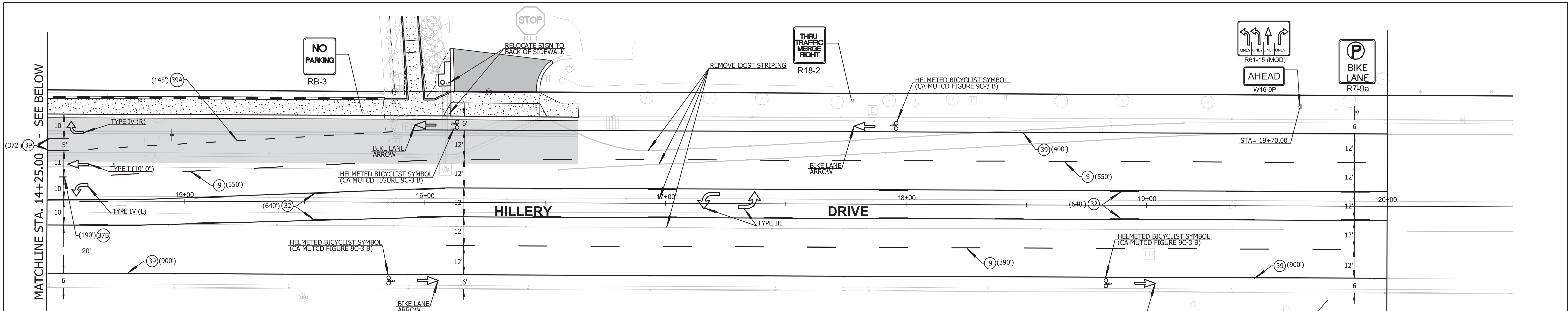
7/22/13
DATE



3750 CONVOY STREET SUITE 220,
SAN DIEGO, CA 92111
PH (858) 244-0440 FAX (858) 244-0441
WWW.GHD.COM

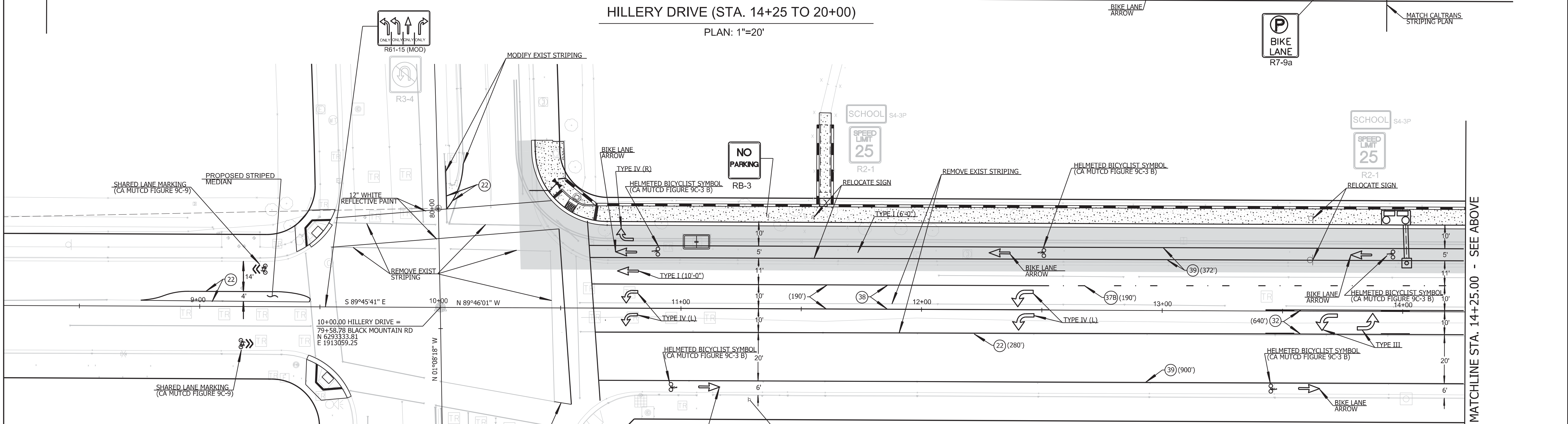


HILLERY DRIVE IMPROVEMENTS



HILLERY DRIVE (STA. 14+25 TO 20+00)

PLAN: 1"=20'



HILLERY DRIVE (STA. 10+00 TO 14+25)

PLAN: 1"=20'

LEGEND



PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS SIGNING AND STRIPING

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 7 OF 23 SHEETS

APPROVED: <i>A. Palacios</i> 11/26/13		DATE		SUBMITTED BY: J. MANCHESTER	
FOR CITY ENGINEER				PROJECT MANAGER	
ABI PALUSSEY				B. OLSON	
DCE NAME				PROJECT ENGINEER	
DESCRIPTION	BY	APPROVED	DATE	FILED	270-1731
ORIGINAL	GHD				CCS27 COORDINATE
					1910444-6292407
					CCS83 COORDINATE
CONTRACTOR		DATE STARTED			36647-07-D
INSPECTOR		DATE COMPLETED			

DECLARATION OF RESPONSIBLE CHARGE
I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT BELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.
Gregory E. Campbell
GREGORY E. CAMPBELL C 59955 DATE: 7/22/13

WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
PUBLIC WORKS PROJECT



Gregory E. Campbell
GREGORY E. CAMPBELL C 59955
REGISTRATION EXPIRES 6/30/14

7/22/13
DATE

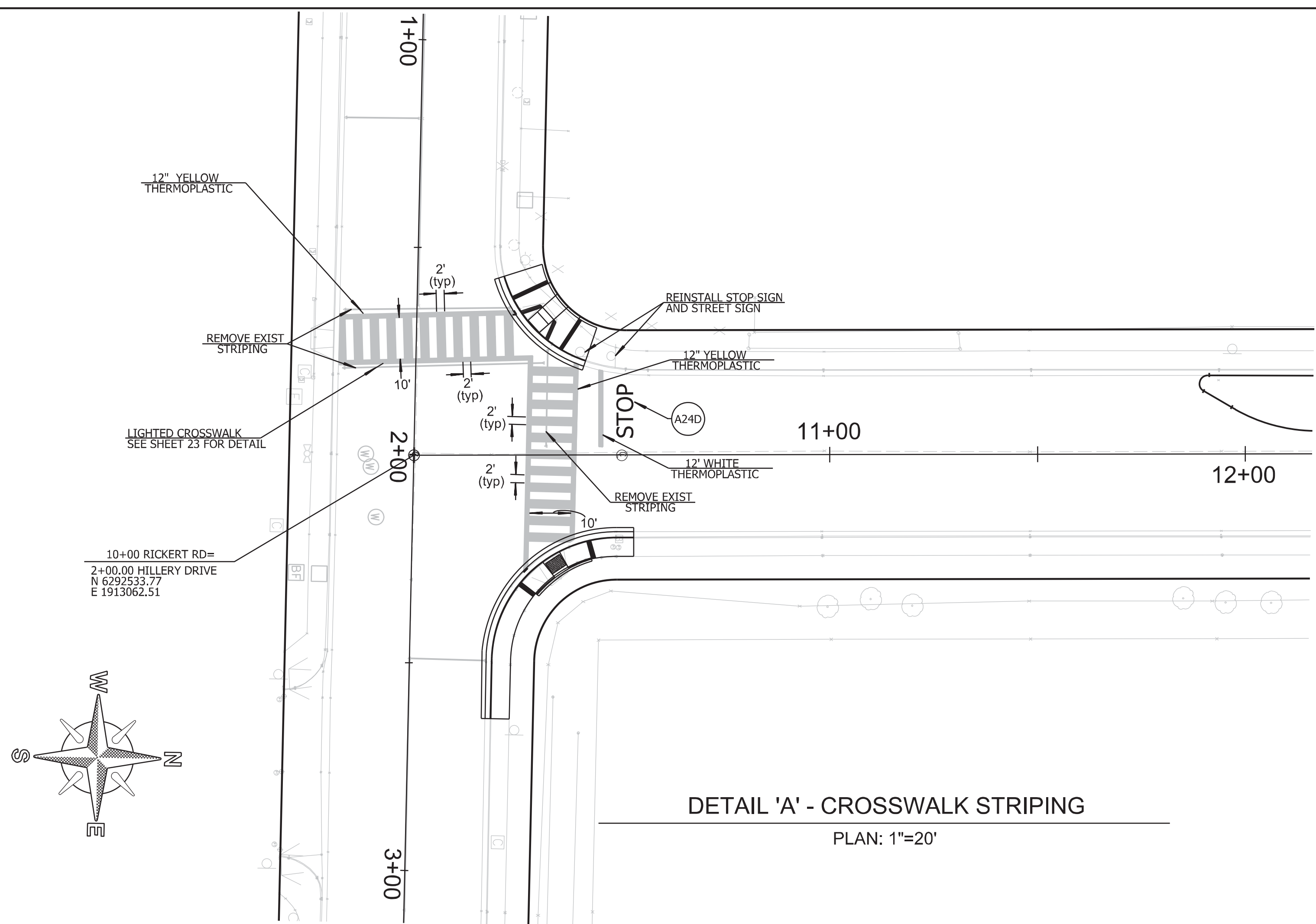


3750 CROWNWAY STREET SUITE 220,
SAN DIEGO CA 92111
PH (619) 244-0440 FAX (619) 244-0441
WWW.GHD.COM

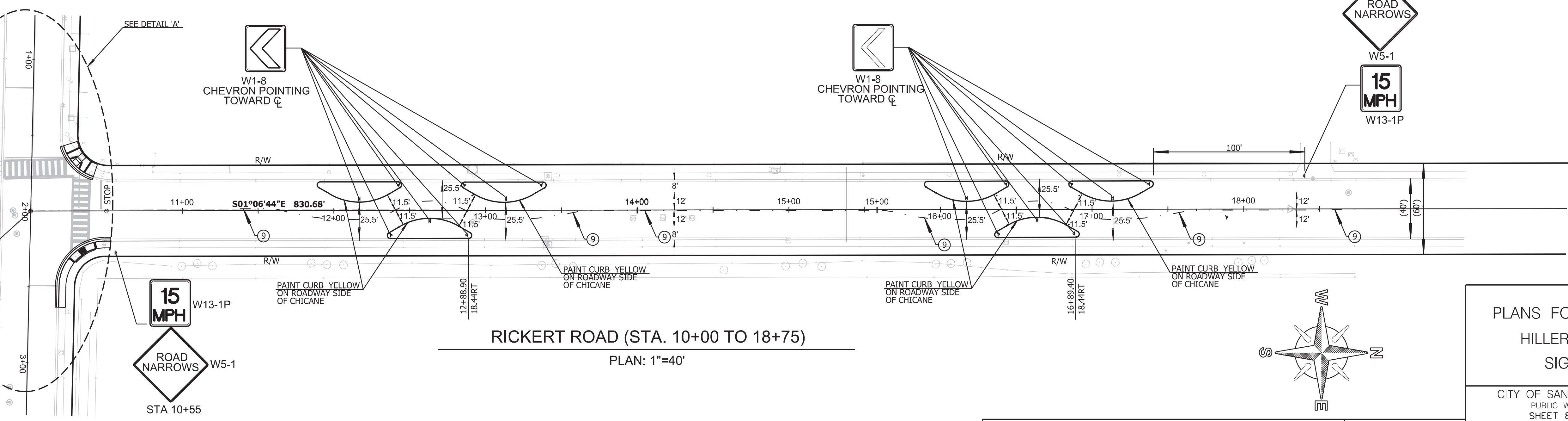


HILLERY DRIVE IMPROVEMENTS

SS-1



DETAIL 'A' - CROSSWALK STRIPING
PLAN: 1"=20'



RICKERT ROAD (STA. 10+00 TO 18+75)
PLAN: 1"=40'

LEGEND
 CALTRANS DETAIL



SS-2

PLANS FOR THE CONSTRUCTION OF
HILLERY DRIVE IMPROVEMENTS
SIGNING AND STRIPING

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 8 OF 23 SHEETS

WBS S-11064

APPROVED: <i>A. Palamp</i> FOR CITY ENGINEER ABI PALUSSEY	DATE 11/26/13	SUBMITTED BY J. MANCHESTER PROJECT MANAGER
DCE NAME		B. OLSON PROJECT ENGINEER
DESCRIPTION		270-1731 CCS27 COORDINATE
ORIGINAL	GHD	1910444-6292407 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36647-08-D
INSPECTOR	DATE COMPLETED	

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT. THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Gregory E. Campbell
GREGORY E. CAMPBELL C 59955 DATE: 7/22/13

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
PUBLIC WORKS PROJECT



Gregory E. Campbell
GREGORY E. CAMPBELL C 59955 7/22/13 DATE
REGISTRATION EXPIRES 6/30/14



3750 CONVOY STREET SUITE 220,
SAN DIEGO, CA 92111
PH (619) 244-0440 • FAX (619) 244-0441
WWW.GHD.COM



MINIMUM POST-CONSTRUCTION MAINTENANCE NOTES

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/2 INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOT) IS FILED.
2. STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWNDRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/2 INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.
3. OPERATION AND MAINTENANCE, FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL THE TRANSFER OF RESPECTIVE SITES TO HOME BUILDERS, INDIVIDUAL OWNERS, HOMEOWNERS ASSOCIATIONS, SCHOOL DISTRICTS, OR LOCAL AGENCIES AND/OR GOVERNMENTS. AT THAT TIME, THE NEW OWNERS SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.

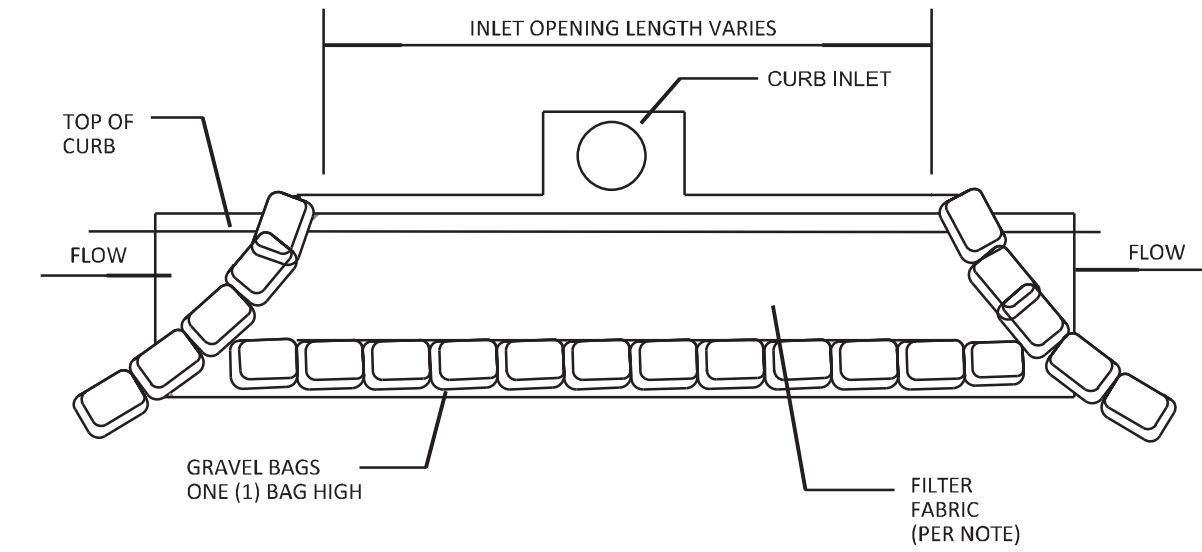
PERMANENT POST-CONSTRUCTION BMP NOTES

1. OPERATION AND MAINTENANCE SHALL BE SECURED BY AN EXECUTED AND RECORDED STORM WATER MANAGEMENT AND DISCHARGE CONTROL MAINTENANCE AGREEMENT (SWMDCMA), OR ANOTHER MECHANISM APPROVED BY THE CITY ENGINEER, THAT ASSURES ALL PERMANENT BMP'S WILL BE MAINTAINED IN PERPETUITY, PER THE LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS.
2. PERMANENT POST CONSTRUCTION BMP DEVICES SHOWN ON PLAN SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY ENGINEER OR RESIDENT ENGINEER AND THE ENGINEER OF WORK.

EROSION AND SEDIMENT CONTROL NOTES

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

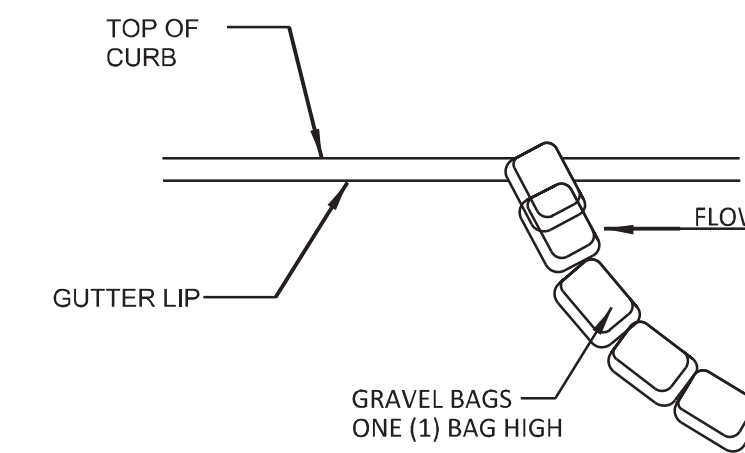
1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), WATER QUALITY TECHNICAL REPORT (WQTR), AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00' FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.



NOTE: FILTER FABRIC
 MATERIAL: POLYETHYLENE OR POLYPROPYLENE FABRIC
 FABRIC WEIGHT: MINIMUM 4 OZ./ SQUARE YARD
 MINIMUM WATER FLOW RATE: 125 GPM/SF (PER ASTM D4491)
 MINIMUM TENSILE STRENGTH: 120 LBS. (PER ASTM D4632)

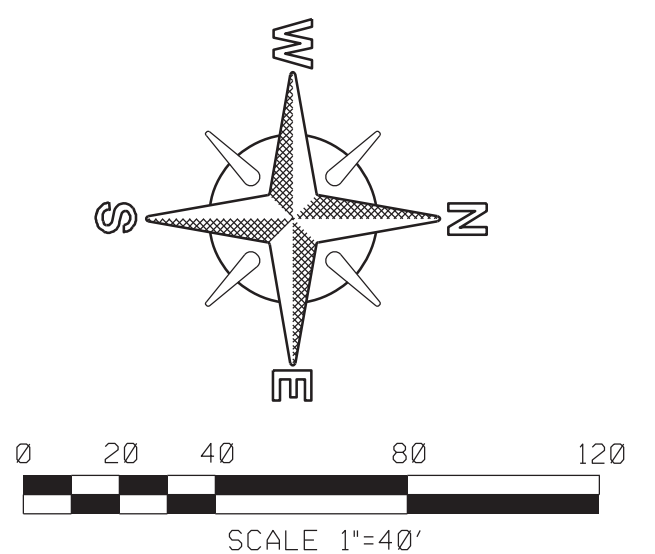
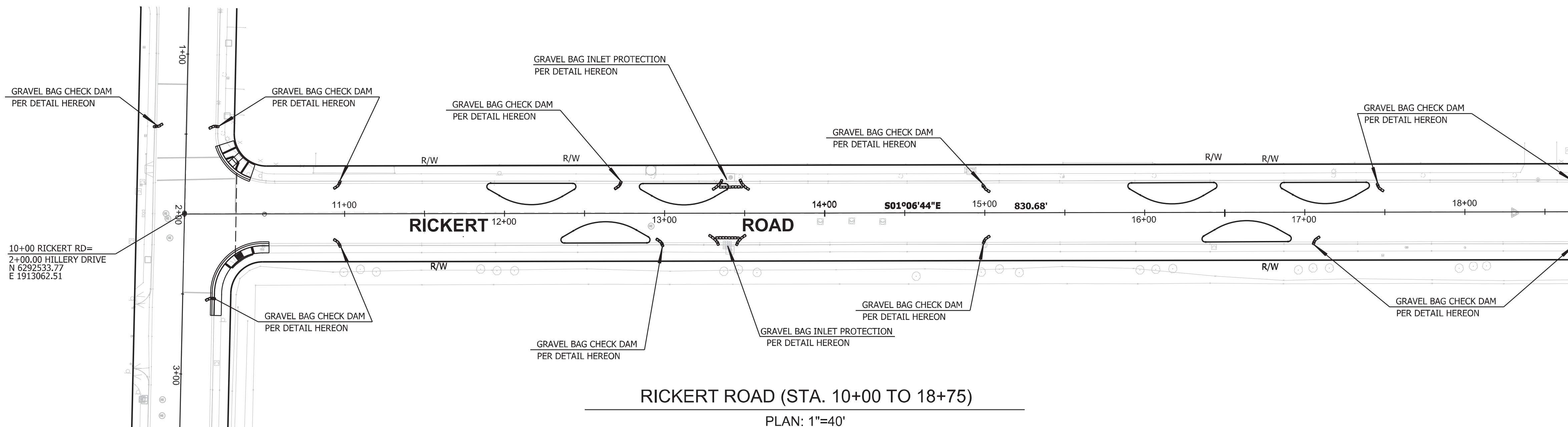
GRAVEL BAG INLET PROTECTION

PLAN: N.T.S.



GRAVEL BAG CHECK DAM

PLAN: N.T.S.



EC-1

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS WATER POLLUTION CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 SHEET 09 OF 23 SHEETS
 WBS S-11064

APPROVED FOR CITY ENGINEER A. Palacios DATE: 11/26/13	DATE: 11/26/13	DATE: 11/26/13	DATE: 11/26/13	DATE: 11/26/13
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	GHD			
SUBMITTED BY: J. MANCHESTER, PROJECT MANAGER				
PROJECT ENGINEER: B. OLSON				
PROJECT NUMBER: 270-1731				
COORDINATE: CCS27				
PROJECT NUMBER: 1910444-6292407				
COORDINATE: CCS83				
CONTRACTOR		DATE STARTED		DATE COMPLETED
INSPECTOR		DATE STARTED		DATE COMPLETED
36647-09-D				

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Gregory E. Campbell
 GREGORY E. CAMPBELL C 59955 DATE: 7/22/13

WARNING



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO PUBLIC WORKS PROJECT



Gregory E. Campbell
 GREGORY E. CAMPBELL C 59955 DATE: 7/22/13
 REGISTRATION EXPIRES 6/30/14

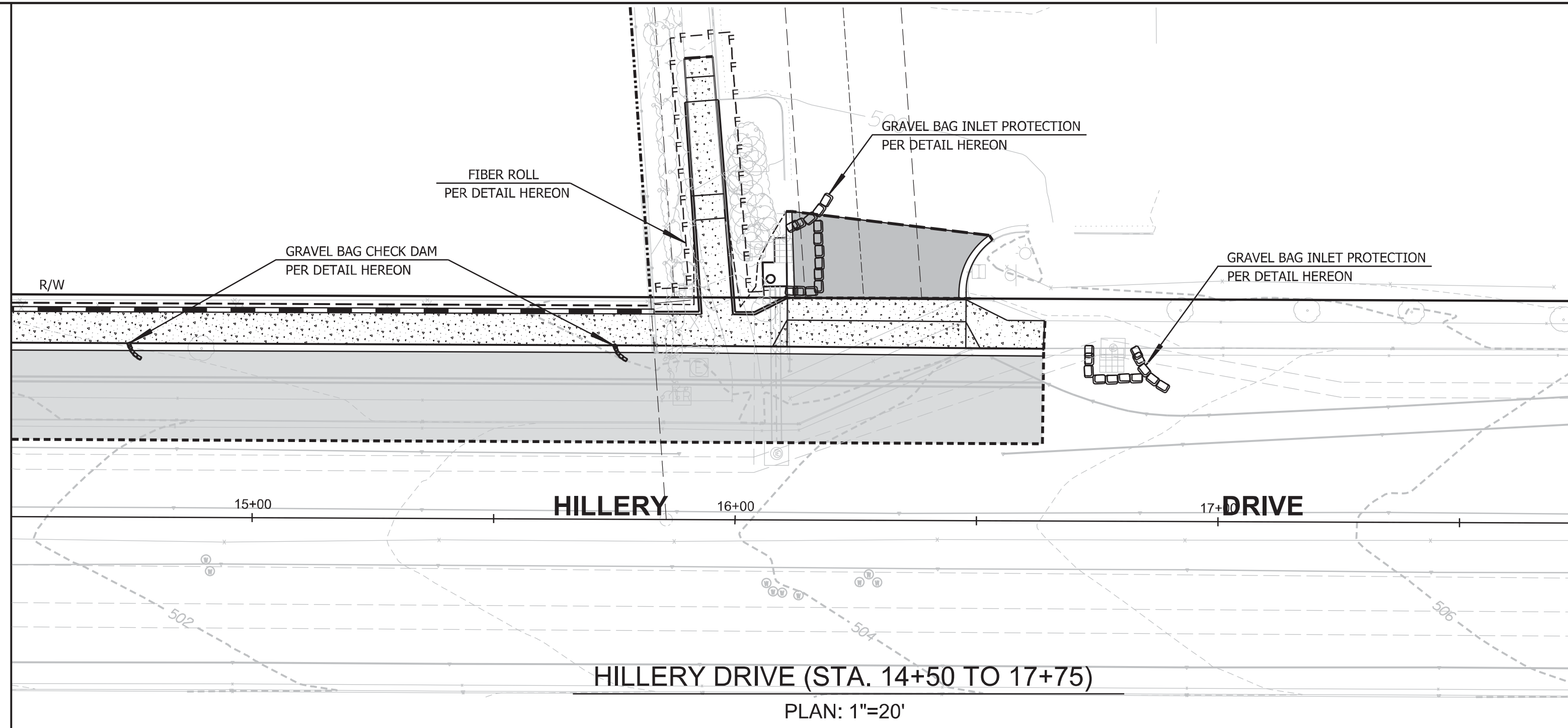


3750 CONVOY STREET SUITE 220, SAN DIEGO, CA 92111
 PH (858) 244-0440 FAX (858) 244-0441
 WWW.GHD.COM



HILLERY DRIVE IMPROVEMENTS

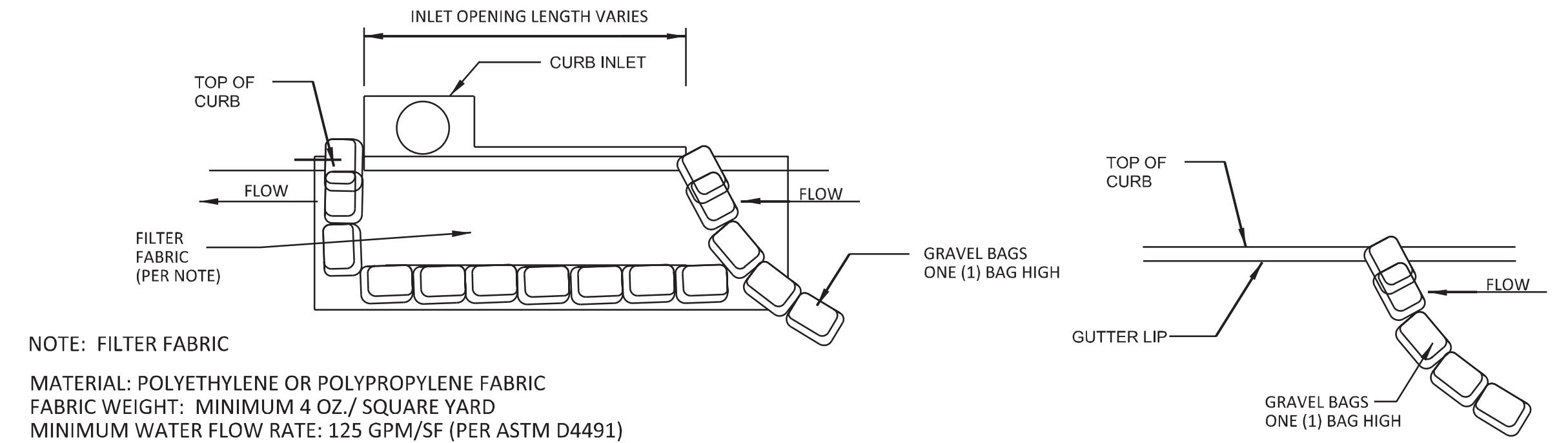
MATCHLINE STA. 14+50.00 - SEE BELOW



HILLERY DRIVE

HILLERY DRIVE (STA. 14+50 TO 17+75)

PLAN: 1"=20'



NOTE: FILTER FABRIC
 MATERIAL: POLYETHYLENE OR POLYPROPYLENE FABRIC
 FABRIC WEIGHT: MINIMUM 4 OZ./ SQUARE YARD
 MINIMUM WATER FLOW RATE: 125 GPM/SF (PER ASTM D4491)
 MINIMUM TENSILE STRENGTH: 120 LBS. (PER ASTM D4632)

GRAVEL BAG INLET PROTECTION

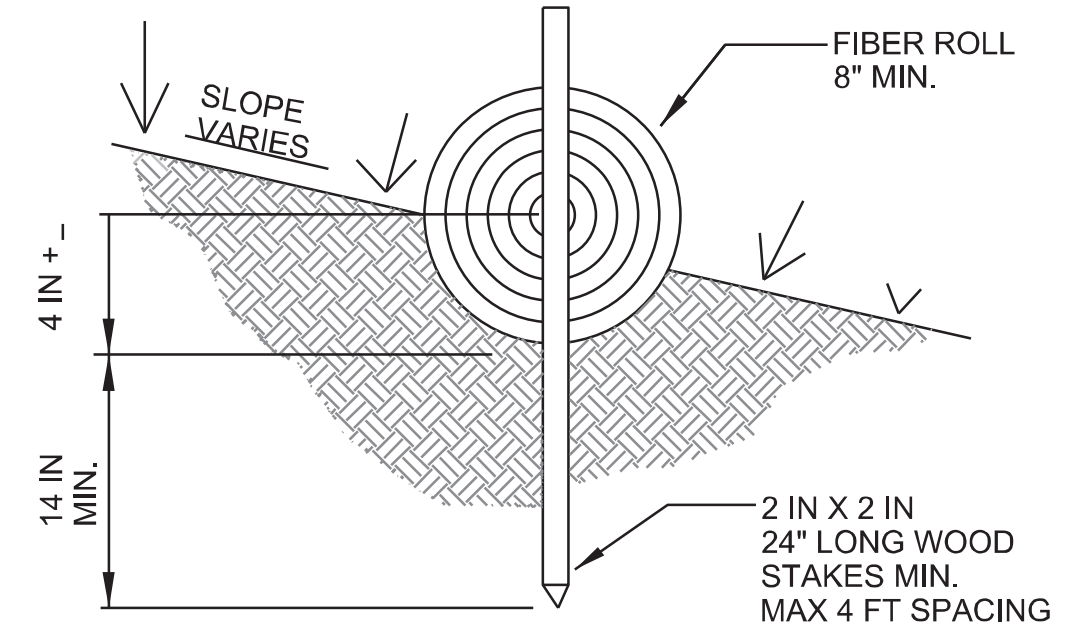
PLAN: N.T.S.

GRAVEL BAG CHECK DAM

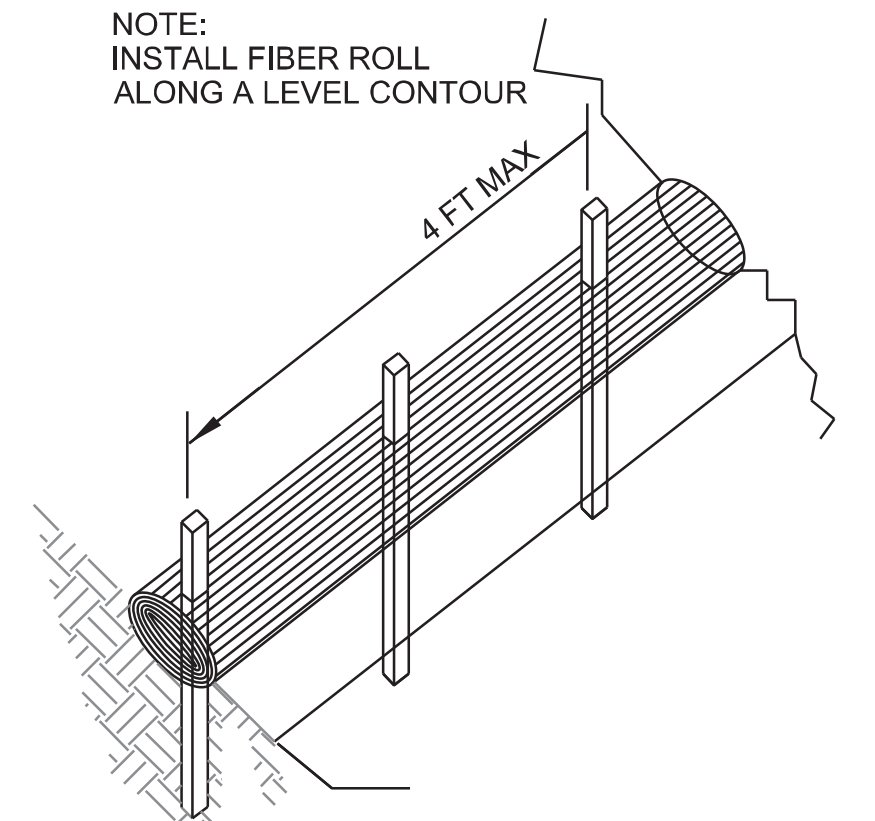
PLAN: N.T.S.

LEGEND

F-F-F- FIBER ROLL



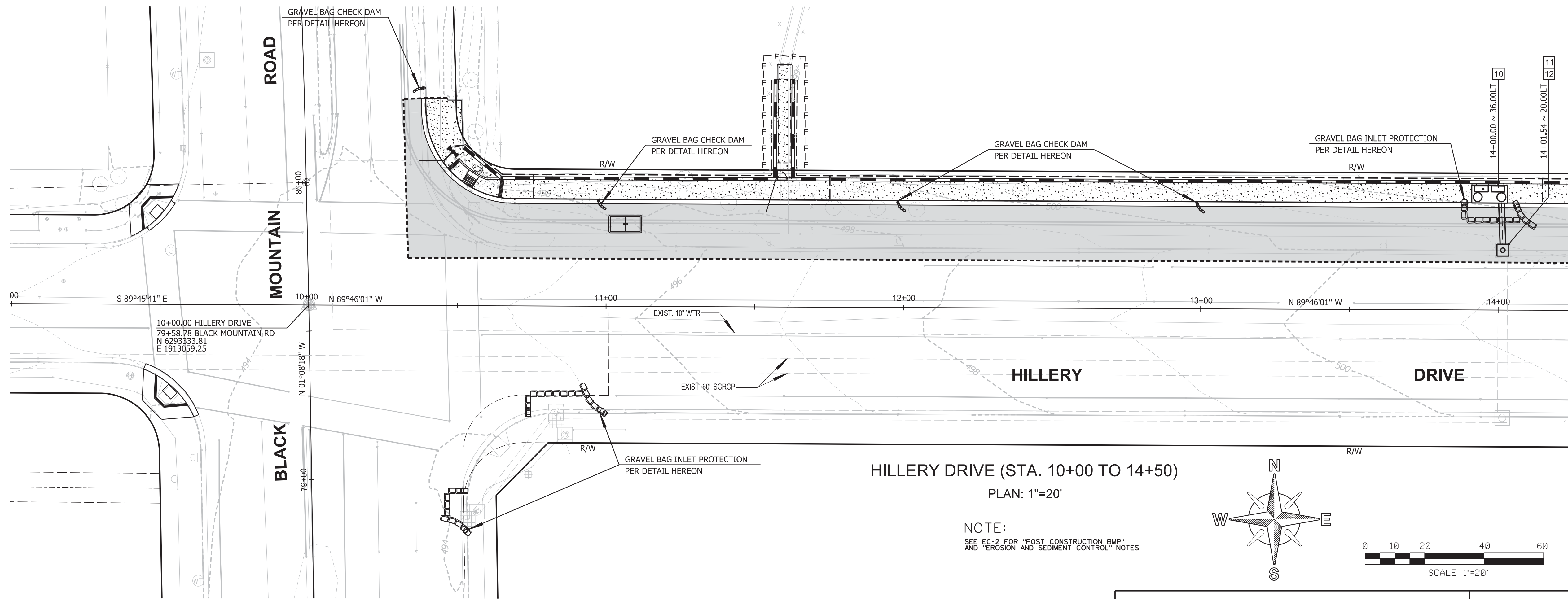
ENTRENCHMENT DETAIL
 NOT TO SCALE



NOTE: INSTALL FIBER ROLL ALONG A LEVEL CONTOUR

FIBER ROLL

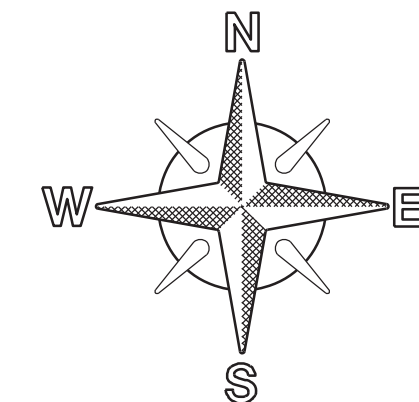
PLAN: N.T.S.



HILLERY DRIVE (STA. 10+00 TO 14+50)

PLAN: 1"=20'

NOTE:
 SEE EC-2 FOR "POST CONSTRUCTION BMP"
 AND "EROSION AND SEDIMENT CONTROL" NOTES



MATCHLINE STA. 14+50.00 - SEE ABOVE

EC-2

PLANS FOR THE CONSTRUCTION OF
 HILLERY DRIVE IMPROVEMENTS
 WATER POLLUTION CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 SHEET 10 OF 23 SHEETS

WBS S-11064

APPROVED FOR CITY ENGINEER <i>A. Palamp</i> ABI PALUSEYED DCE NAME	DATE 11/26/13	SUBMITTED BY J. MANCHESTER PROJECT MANAGER
DESCRIPTION ORIGINAL	BY GHD	APPROVED B. OLSON PROJECT ENGINEER
		DATE 270-1731
		CCS27 COORDINATE
		1910444-6292407
		CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36647-10-D
INSPECTOR	DATE COMPLETED	

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Gregory E. Campbell
 GREGORY E. CAMPBELL C 59955 DATE: 7/22/13

WARNING



IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
 PUBLIC WORKS PROJECT



Gregory E. Campbell
 GREGORY E. CAMPBELL C 59955
 REGISTRATION EXPIRES 6/30/14

7/22/13
 DATE



3750 CONVOY STREET SUITE 220,
 SAN DIEGO, CA 92111
 PH (619) 244-0440 • FAX (619) 244-0441
 WWW.GHD.COM

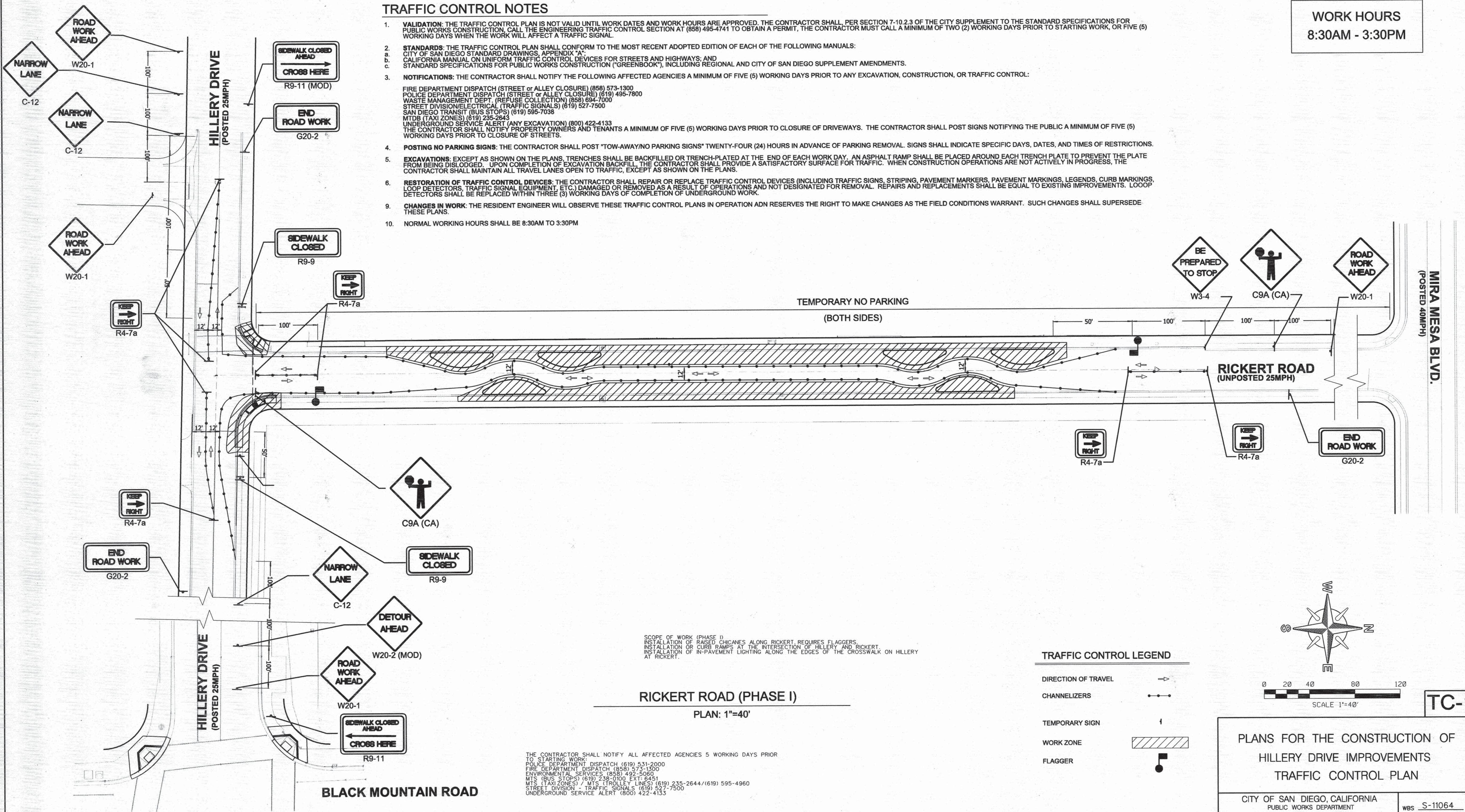


HILLERY DRIVE IMPROVEMENTS

WORK HOURS
8:30AM - 3:30PM

TRAFFIC CONTROL NOTES

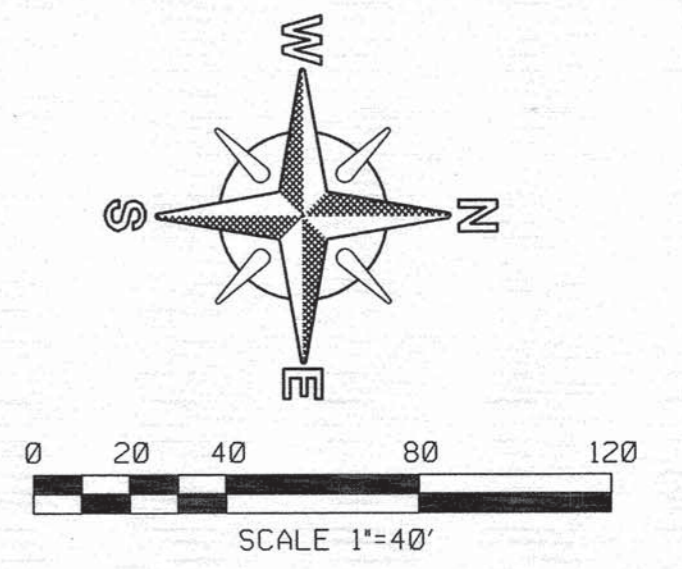
- VALIDATION:** THE TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES AND WORK HOURS ARE APPROVED. THE CONTRACTOR SHALL, PER SECTION 7-10.2.3 OF THE CITY SUPPLEMENT TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CALL THE ENGINEERING TRAFFIC CONTROL SECTION AT (858) 495-4741 TO OBTAIN A PERMIT. THE CONTRACTOR MUST CALL A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, OR FIVE (5) WORKING DAYS WHEN THE WORK WILL AFFECT A TRAFFIC SIGNAL.
- STANDARDS:** THE TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENT ADOPTED EDITION OF EACH OF THE FOLLOWING MANUALS:
 - CITY OF SAN DIEGO STANDARD DRAWINGS, APPENDIX "A"
 - CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS; AND
 - STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ("GREENBOOK"), INCLUDING REGIONAL AND CITY OF SAN DIEGO SUPPLEMENT AMENDMENTS.
- NOTIFICATIONS:** THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AFFECTED AGENCIES A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, CONSTRUCTION, OR TRAFFIC CONTROL:
 - FIRE DEPARTMENT DISPATCH (STREET OR ALLEY CLOSURE) (858) 573-1300
 - POLICE DEPARTMENT DISPATCH (STREET OR ALLEY CLOSURE) (619) 495-7800
 - WASTE MANAGEMENT DEPT. (REFUSE COLLECTION) (858) 694-7000
 - STREET DIVISION/ELECTRICAL (TRAFFIC SIGNALS) (619) 527-7500
 - SAN DIEGO TRANSIT (BUS STOPS) (619) 595-7038
 - MTDB (TAXI ZONES) (619) 235-2643
 - UNDERGROUND SERVICE ALERT (ANY EXCAVATION) (800) 422-4133
 THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS AND TENANTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF DRIVEWAYS. THE CONTRACTOR SHALL POST SIGNS NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.
- POSTING NO PARKING SIGNS:** THE CONTRACTOR SHALL POST "TOW-AWAY/NO PARKING SIGNS" TWENTY-FOUR (24) HOURS IN ADVANCE OF PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES, AND TIMES OF RESTRICTIONS.
- EXCAVATIONS:** EXCEPT AS SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED AT THE END OF EACH WORK DAY. AN ASPHALT RAMP SHALL BE PLACED AROUND EACH TRENCH PLATE TO PREVENT THE PLATE FROM BEING DISLODGED. UPON COMPLETION OF EXCAVATION BACKFILL, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY SURFACE FOR TRAFFIC. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, THE CONTRACTOR SHALL MAINTAIN ALL TRAVEL LANES OPEN TO TRAFFIC, EXCEPT AS SHOWN ON THE PLANS.
- RESTORATION OF TRAFFIC CONTROL DEVICES:** THE CONTRACTOR SHALL REPAIR OR REPLACE TRAFFIC CONTROL DEVICES (INCLUDING TRAFFIC SIGNS, STRIPING, PAVEMENT MARKERS, PAVEMENT MARKINGS, LEGENDS, CURB MARKINGS, LOOP DETECTORS, TRAFFIC SIGNAL EQUIPMENT, ETC.) DAMAGED OR REMOVED AS A RESULT OF OPERATIONS AND NOT DESIGNATED FOR REMOVAL. REPAIRS AND REPLACEMENTS SHALL BE EQUAL TO EXISTING IMPROVEMENTS. LOOP DETECTORS SHALL BE REPLACED WITHIN THREE (3) WORKING DAYS OF COMPLETION OF UNDERGROUND WORK.
- CHANGES IN WORK:** THE RESIDENT ENGINEER WILL OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND RESERVES THE RIGHT TO MAKE CHANGES AS THE FIELD CONDITIONS WARRANT. SUCH CHANGES SHALL SUPERSEDE THESE PLANS.
- NORMAL WORKING HOURS SHALL BE 8:30AM TO 3:30PM**



SCOPE OF WORK (PHASE I)
INSTALLATION OF RAISED CHICANES ALONG RICKERT. REQUIRES FLAGGERS.
INSTALLATION OF CURB RAMP AT THE INTERSECTION OF HILLERY AND RICKERT.
INSTALLATION OF IN-PAVEMENT LIGHTING ALONG THE EDGES OF THE CROSSWALK ON HILLERY AT RICKERT.

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAVEL: [Symbol]
- CHANNELIZERS: [Symbol]
- TEMPORARY SIGN: [Symbol]
- WORK ZONE: [Symbol]
- FLAGGER: [Symbol]



TC-1

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT BELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Gregory E. Campbell
GREGORY E. CAMPBELL C 59955 DATE: 7/22/13

**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



Gregory E. Campbell
GREGORY E. CAMPBELL C 59955 DATE: 7/22/13
REGISTRATION EXPIRES 6/30/14



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SAN DIEGO, CA 92111
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WWW.GHD.COM

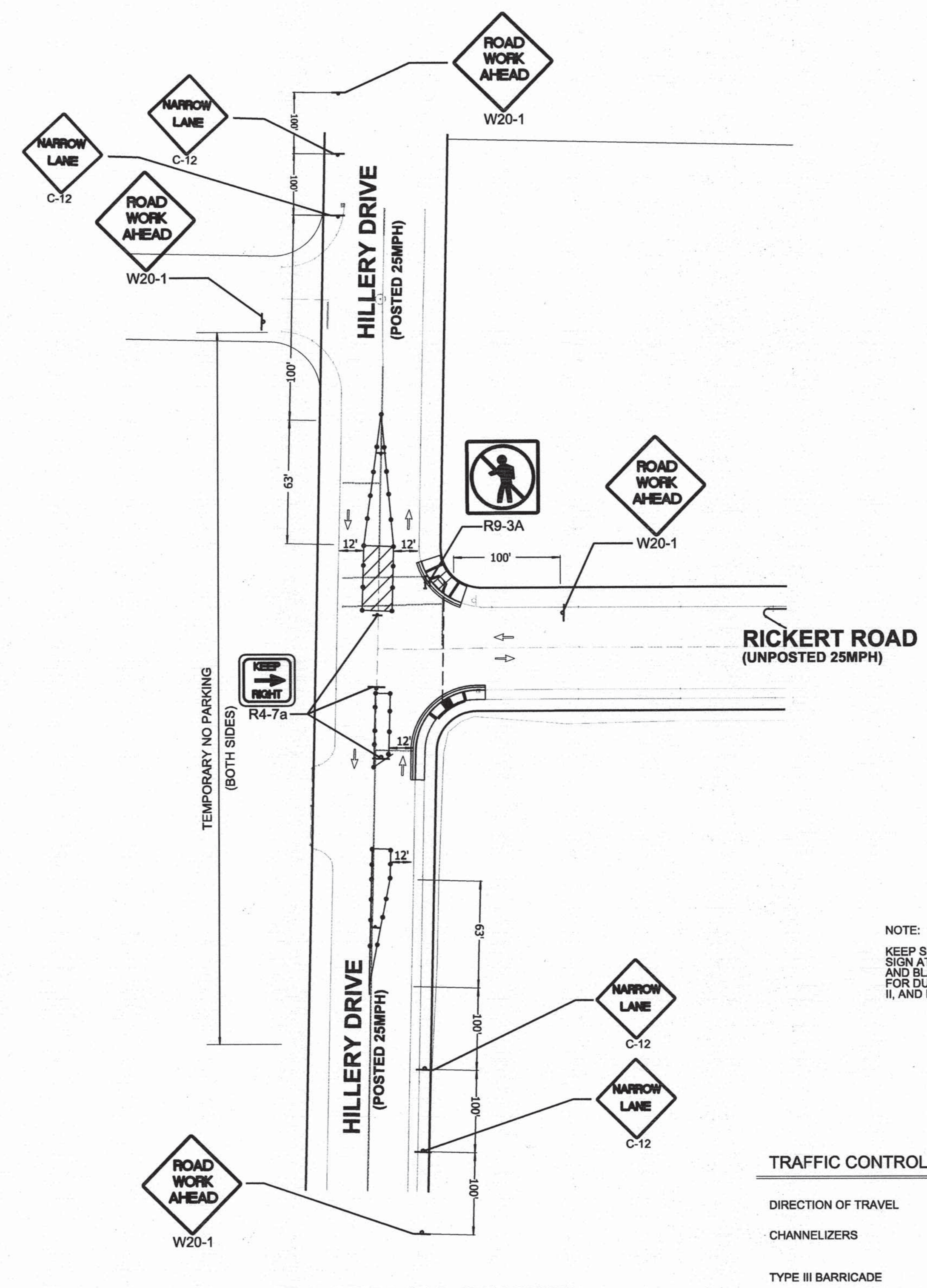
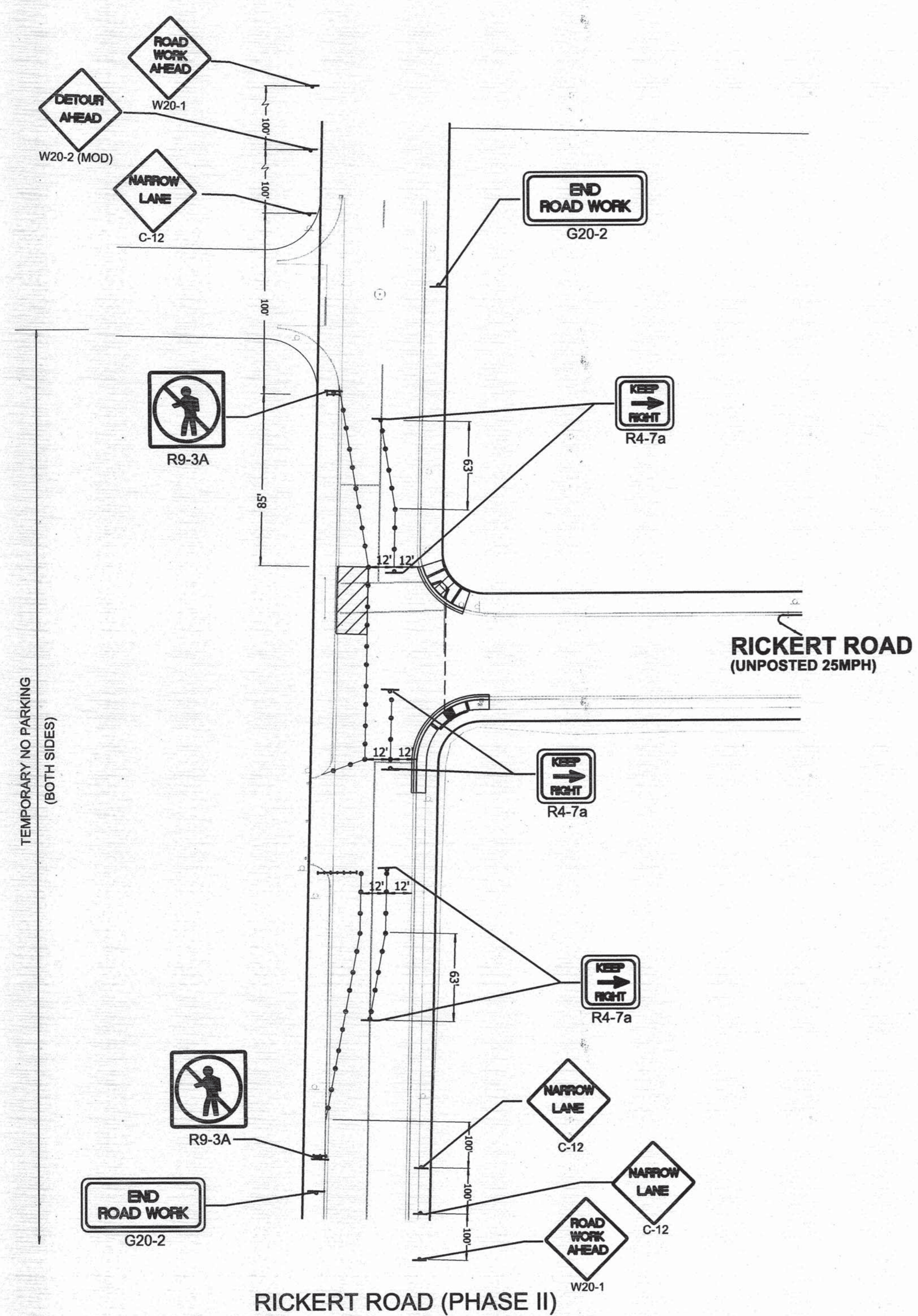


**PLANS FOR THE CONSTRUCTION OF
HILLERY DRIVE IMPROVEMENTS
TRAFFIC CONTROL PLAN**

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 11 OF 23 SHEETS		wbs S-11064	
APPROVED BY: <i>Abraha</i> 10/28/2013		SUBMITTED BY: J. MANCHESTER	
FOR CITY ENGINEER		PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	GHD		
PROJECT ENGINEER		B. OLSON	
COORDINATOR		270-1731	
COORDINATOR		1910444-6292407	
COORDINATOR		36647-11-D	
CONTRACTOR	DATE STARTED	DATE COMPLETED	
INSPECTOR			

HILLERY DRIVE IMPROVEMENTS

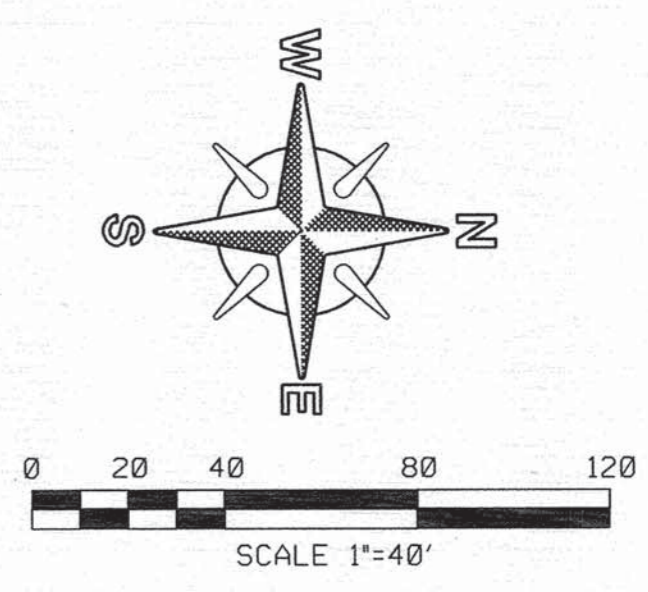
WORK HOURS
8:30AM - 3:30PM



NOTE:
KEEP SIDEWALK CLOSED
SIGN AT CORNER OF HILLERY
AND BLACK MOUNTAIN ROAD
FOR DURATION OF PHASE I,
II, AND III.

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAVEL →
- CHANNELIZERS —•—•—
- TYPE III BARRICADE —|—
- TEMPORARY SIGN ↑
- WORK ZONE ▨



TC-2

THE CONTRACTOR SHALL NOTIFY ALL AFFECTED AGENCIES 5 WORKING DAYS PRIOR TO STARTING WORK:

POLICE DEPARTMENT DISPATCH (619) 531-2000
FIRE DEPARTMENT DISPATCH (858) 573-1300
ENVIRONMENTAL SERVICES (858) 492-5080
MTS (BUS STOPS) (619) 235-0100 EXT: 6451
MTS (TAXI ZONES) / MTS (TROLLEY LINES) (619) 235-2644 / (619) 595-4960
STREET DIVISION - TRAFFIC SIGNALS (619) 527-7500
UNDERGROUND SERVICE ALERT (800) 422-4133

SCOPE OF WORK (PHASE II):
INSTALLATION OF IN-PAVEMENT LIGHTING ON THE SOUTH SIDE AT HILLERY DRIVE

SCOPE OF WORK (PHASE III):
INSTALLATION OF IN-PAVEMENT LIGHTING IN THE MIDDLE PORTION OF THE CROSSWALK ON HILLERY NEAR RICKERT.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Gregory E. Campbell
GREGORY E. CAMPBELL C 59955 DATE: 7/22/13

WARNING

0 1
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CITY OF SAN DIEGO
PUBLIC WORKS PROJECT



Gregory E. Campbell
GREGORY E. CAMPBELL C 59955
REGISTRATION EXPIRES 6/30/14

7/22/13 DATE



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SAN DIEGO, CA 92111
PH (858) 544-0440 • FAX (858) 244-0441
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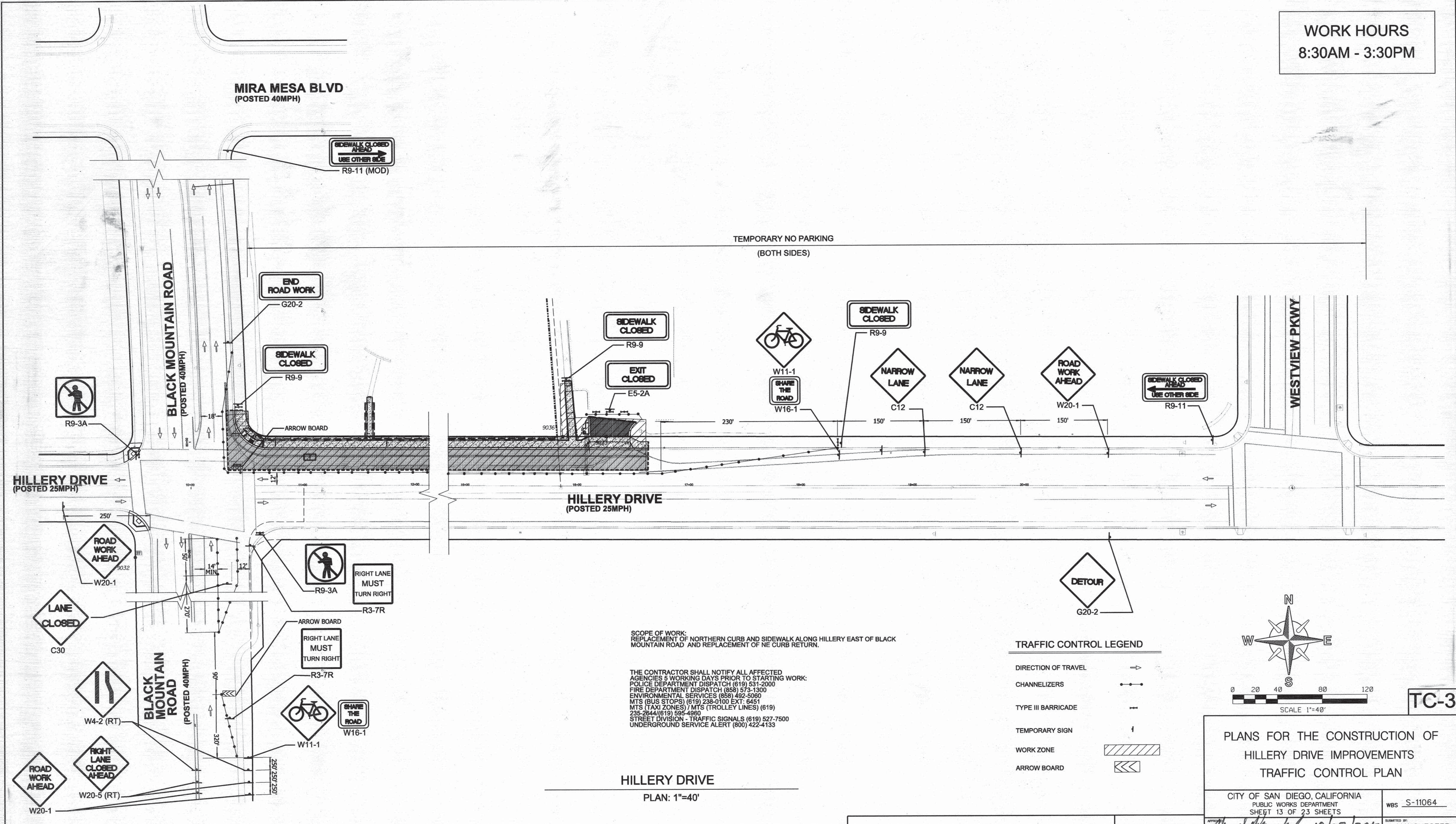


PLANS FOR THE CONSTRUCTION OF
HILLERY DRIVE IMPROVEMENTS
TRAFFIC CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 12 OF 23 SHEETS		WBS S-11064
FOR CITY ENGINEER	DATE 10/28/2013	SUBMITTED BY J. MANCHESTER PROJECT MANAGER
DESCRIPTION	BY GHD	APPROVED DATE FILMED
ORIGINAL	GHD	B. OLSON PROJECT ENGINEER
		270-1731 CCS27 COORDINATE
		1910444-6292407 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36647-12-D
INSPECTOR	DATE COMPLETED	

HILLERY DRIVE IMPROVEMENTS

WORK HOURS
8:30AM - 3:30PM

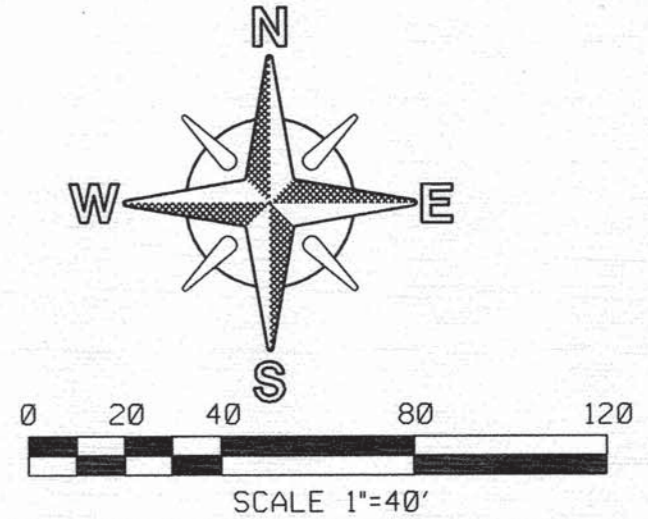


SCOPE OF WORK:
REPLACEMENT OF NORTHERN CURB AND SIDEWALK ALONG HILLERY EAST OF BLACK MOUNTAIN ROAD AND REPLACEMENT OF NE CURB RETURN.

THE CONTRACTOR SHALL NOTIFY ALL AFFECTED AGENCIES 5 WORKING DAYS PRIOR TO STARTING WORK:
POLICE DEPARTMENT DISPATCH (619) 531-2000
FIRE DEPARTMENT DISPATCH (858) 573-1300
ENVIRONMENTAL SERVICES (858) 492-5080
MTS (BUS STOPS) (619) 238-0100 EXT 6451
MTS (TAXI ZONES) / MTS (TROLLEY LINES) (619) 235-2644/(619) 595-4960
STREET DIVISION - TRAFFIC SIGNALS (619) 527-7500
UNDERGROUND SERVICE ALERT (800) 422-4133

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAVEL
- CHANNELIZERS
- TYPE III BARRICADE
- TEMPORARY SIGN
- WORK ZONE
- ARROW BOARD



TC-3

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS TRAFFIC CONTROL PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 13 OF 23 SHEETS

FOR CITY ENGINEER		DATE		SUBMITTED BY	
<i>Gregory E. Campbell</i>		10/28/2013		J. MANCHESTER	
DESCRIPTION	BY	APPROVED	DATE	FILMED	PROJECT ENGINEER
ORIGINAL	GHD				B. OLSON
					270-1731
					CCS27 COORDINATE
					1910444-6292407
					CCS83 COORDINATE
CONTRACTOR	DATE STARTED		36647-13-D		
INSPECTOR	DATE COMPLETED				

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS, UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Gregory E. Campbell
GREGORY E. CAMPBELL C 59955 DATE: 7/22/13

WARNING

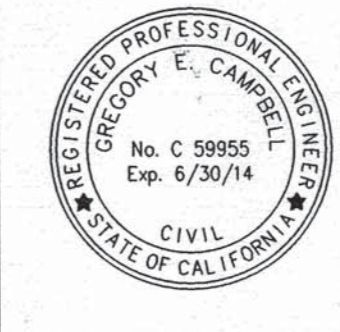
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



Gregory E. Campbell
GREGORY E. CAMPBELL C 59955
REGISTRATION EXPIRES 6/30/14

7/22/13
DATE



HILLERY DRIVE IMPROVEMENTS

GENERAL NOTES:

1. THE PROJECT SPECIFICATIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION, AND THE CITY OF SAN DIEGO "WHITE BOOK", UNLESS OTHERWISE NOTED.
2. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE CIVIL DRAWINGS.
3. THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDING.
4. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
5. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
6. THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO THE CIVIL DRAWINGS FOR NON-STRUCTURAL ITEMS, SUCH AS:
 - A. DIMENSIONS AND ELEVATIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
7. THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS NOTED OTHERWISE, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
8. NEITHER THE OWNER NOR THE ENGINEER WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
9. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.

FOUNDATION:

1. PRIOR TO THE POURING OF CONCRETE AND PRIOR TO THE CONTRACTOR REQUESTING A FOUNDATION INSPECTION, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS.
2. SOILS REPORT PREPARED BY: SOUTHLAND GEOTECHNICAL CONSULTANTS (SGC), "GEOTECHNICAL INVESTIGATION HILLERY DRIVE IMPROVEMENTS, MIRA MESA AREA OF THE CITY OF SAN DIEGO, CALIFORNIA, DATED JANUARY 5, 2013.
3. SOIL REMOVAL AND RECOMPACTION SHALL BE DONE PER SOILS REPORT RECOMMENDATIONS UNDER GEOTECHNICAL ENGINEER'S SUPERVISION AND INSPECTION.
4. TYPE OF FOOTING:
 - A. SHALLOW FOOTING SYSTEM—MINIMUM EMBEDMENT 18 INCHES BELOW LOWEST ADJACENT GRADE.
5. NO PIPES OR DUCTS SHALL BE PLACED IN FOOTINGS OR WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER.
6. ALL WALLS RETAINING EARTH SHALL DRAIN TO DAYLIGHT OR OTHER DRAINAGE.
7. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
8. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN AREAS TO BE EXCAVATED BEFORE BEGINNING EXCAVATION. EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING. DAMAGE CAUSED AS A RESULT OF FAILING TO EXACTLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN, APPROVALS, PERMITS, INSTALLATION AND MONITORING OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO SAFELY RETAIN TEMPORARY EXCAVATIONS.

CONCRETE:

1. ALL CONCRETE SHALL CONFORM TO CLASS 560-C-3250.
2. CEMENT SHALL CONFORM TO TYPE II.

MASONRY:

1. ALL MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF $f'_m = 1,500$ P.S.I.
2. MASONRY UNITS SHALL BE MEDIUM WEIGHT BLOCK IN ACCORDANCE WITH A.S.T.M. SPECIFICATION C-90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1,900 P.S.I. USE OPEN END UNITS AT VERTICAL REINFORCING.
3. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT 1 1/2" BELOW THE TOP OF THE UPPERMOST MASONRY UNITS.
4. NO PIPES OR DUCTS SHALL BE PLACED IN MASONRY WALLS UNLESS SPECIFICALLY NOTED OR DETAILED.
5. 1/2" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN REINFORCING STEEL AND INSIDE OF MASONRY BLOCK.
6. MORTAR AND CMU SAMPLES SHALL BE SUBMITTED TO OWNER FOR APPROVAL.

REINFORCING STEEL:

1. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, DEFORMED GRADE 60.

ABBREVIATIONS:

BOF	BOTTOM OF FOOTING
CLR	CLEAR
CONT	CONTINUOUS
FG	FINISH GRADE
OG	ORIGINAL GRADE
TYP	TYPICAL

DECLARATION OF RESPONSIBLE CHARGE

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PAUL MOREL

PAUL MOREL R.C.E. 68491

DATE 7/22/13

S-1

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS RETAINING WALL NOTES NO. 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 14 OF 23 SHEETS

WBS S-11064

APPROVED: <i>A. Palacios</i> FOR CITY ENGINEER ABI PALACIOS DCE NAME	DATE 11/22/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
DESCRIPTION		B. OLSON PROJECT ENGINEER
ORIGINAL	BY SWE	270-1731 CCS87 COORDINATE
		1910444-6292407 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36647-14-D
INSPECTOR	DATE COMPLETED	

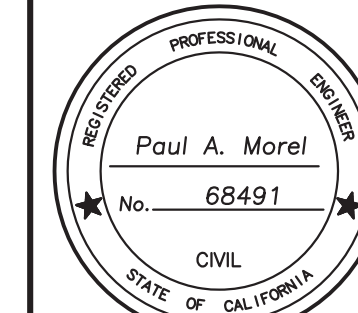
WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO PUBLIC WORKS PROJECT



SIMON WONG ENGINEERING
9968 Hibert Street, Second Floor
San Diego, CA 92131 (858) 566-3113

Job: 500-922
PAUL MOREL
DATE: 7/22/13
PREPARED BY: * PAUL A. MOREL R.C.E. NO. 68491
REGISTRATION EXPIRES: 09/30/13



HILLERY DRIVE IMPROVEMENTS

DESIGN CRITERIA

DESIGN CODE: 2010 CALIFORNIA BUILDING CODE

CONCRETE: $f'_c = 3,250$ psi
 $F_c = 1,300$ psi
 $n = 8$

CONCRETE MASONRY: $f'_m = 1,500$ psi
 $F_m = 500$ psi
 $n = 26$

GROUT: 2,000 psi

MORTAR: 1,800 psi

REINFORCEMENT: $f_y = 60,000$ psi (GRADE 60)
 $F_s = 24,000$ psi

SOIL: ACTIVE PRESSURE = 35 pcf (LEVEL BACKFILL)
 PASSIVE PRESSURE = 350 pcf
 ALLOWABLE BEARING PRESSURE = 2,000 psf
 FRICTION COEFFICIENT = 0.30 (CONCRETE TO SOIL)
 UNIT WEIGHT = 120 pcf

SEISMIC: SEISMIC EARTH PRESSURE = 18H psf
 (TRIANGULAR DISTRIBUTION)

S-2

PLANS FOR THE CONSTRUCTION OF
 HILLERY DRIVE IMPROVEMENTS
 RETAINING WALL NOTES NO. 2

CITY OF SAN DIEGO, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 SHEET 15 OF 23 SHEETS

WBS S-11064

APPROVED: <i>A. Palasey</i> FOR CITY ENGINEER ABI PALASEY DCE NAME	DATE 11/26/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
		B. OLSON PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	SWE	
CONTRACTOR	DATE STARTED	36647-15-D
INSPECTOR	DATE COMPLETED	

WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
 PUBLIC WORKS PROJECT

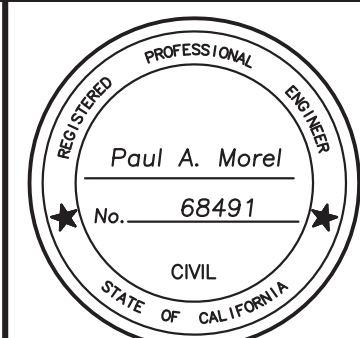


SIMON WONG ENGINEERING
 9968 Hibert Street, Second Floor
 San Diego, CA 92131 (858) 566-3113

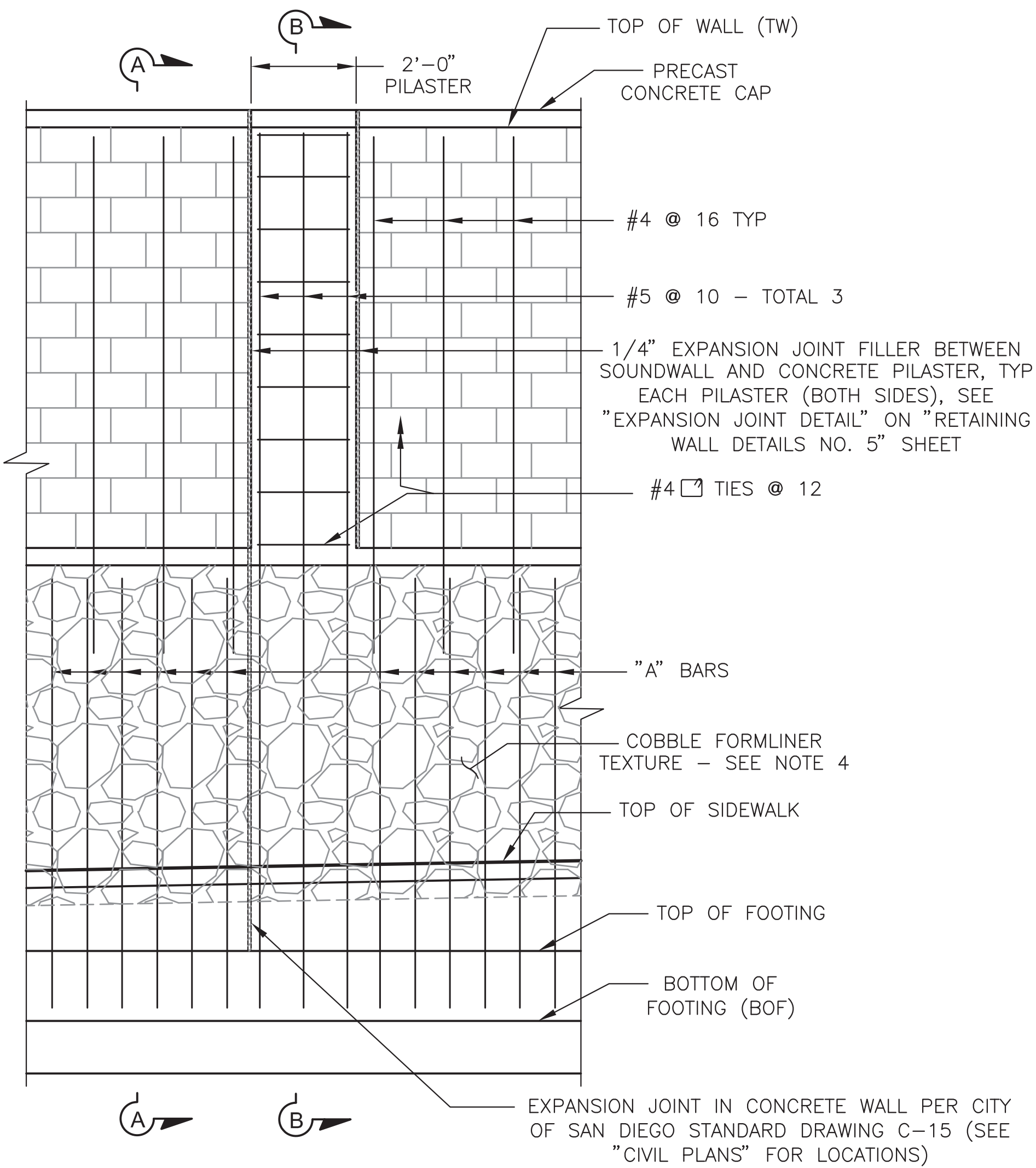
Job: 500-922

PREPARED BY: * PAUL A. MOREL
 REGISTRATION EXPIRES: 09/30/13

DATE: 7/22/13
 R.C.E. NO. 68491



HILLERY DRIVE IMPROVEMENTS

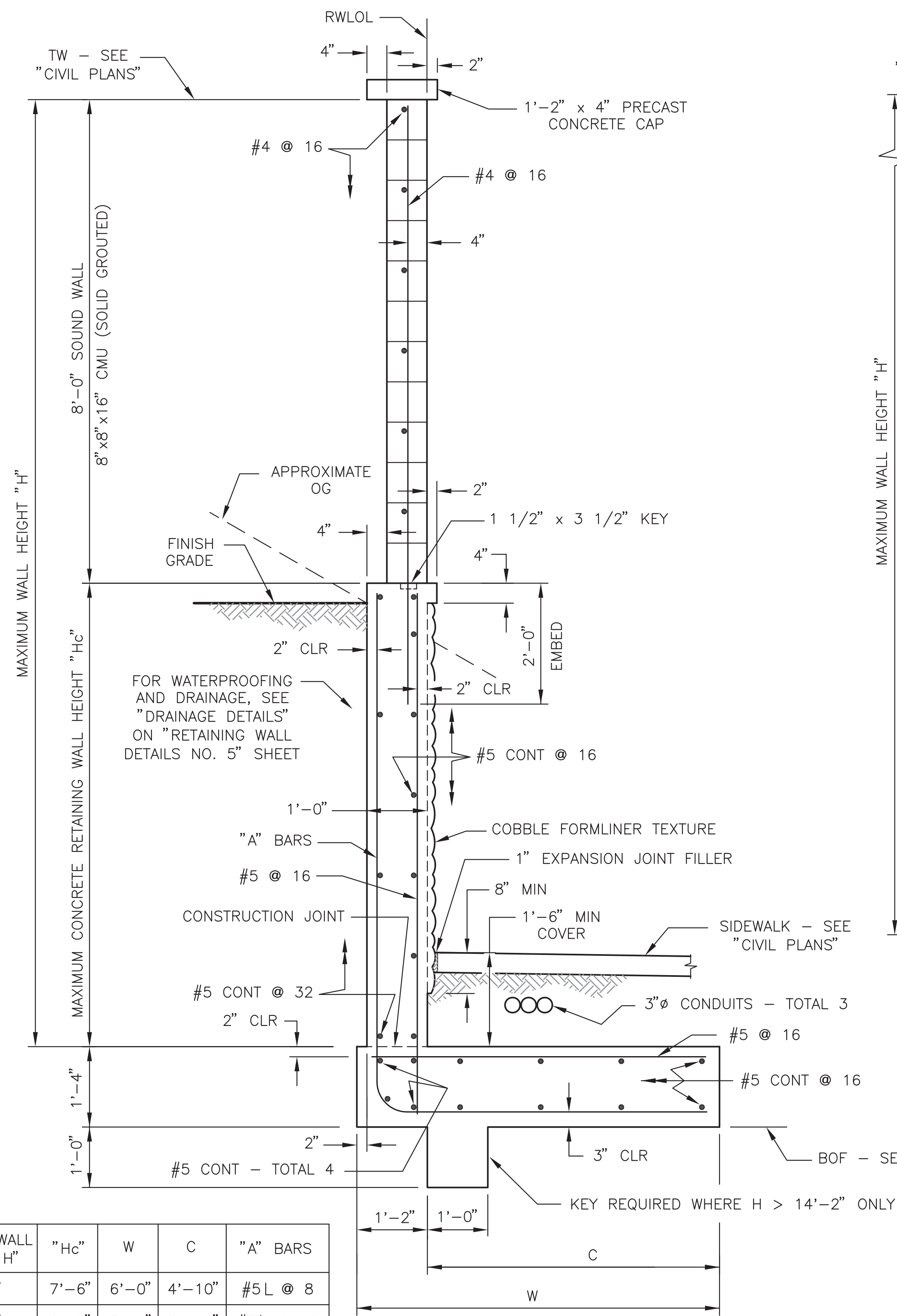


RETAINING WALL ELEVATION

1/2" = 1'-0"

NOTES:

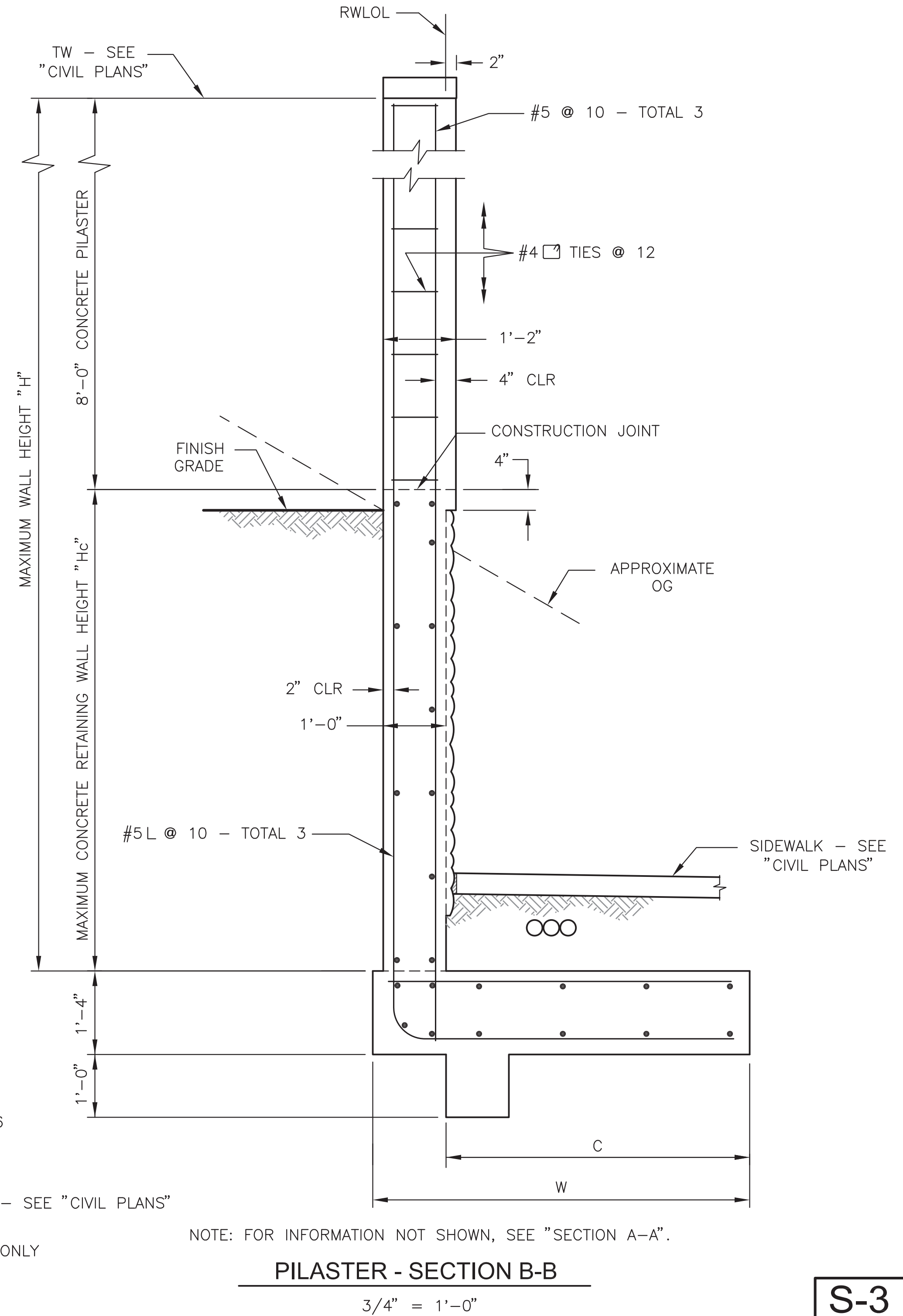
1. ALL MASONRY BLOCKS TO BE OPEN-ENDED (EXCEPT AT WALL ENDS), COLORED, AND SPLIT-FACE.
2. ALL BLOCKS SHALL BE LAID IN COMMON BOND.
3. FILL ALL CELLS WITH GROUT.
4. COBBLE FORMLINER TEXTURE SHALL BE SPECFORMLINER'S #1577, OR CUSTOMROCK'S #1204, OR EQUIVALENT.
5. FOR CONCRETE WALL OFFSET VALUES, SEE CITY OF SAN DIEGO STANDARD DRAWING C-13D.
6. FOR LIMITS OF STRUCTURAL EXCAVATION AND BACKFILL, SEE CITY OF SAN DIEGO STANDARD DRAWING SDC-103.
7. WEAKENED PLANES PER CITY OF SAN DIEGO STANDARD DRAWING C-15 SHALL BE PROVIDED IN CONCRETE RETAINING WALL AT 24' MAX SPACING.
8. FOR FOOTING STEP DETAIL, SEE CITY OF SAN DIEGO STANDARD DRAWING C-13A.
9. REINFORCING SPLICES IN THE CONCRETE WALL AND MASONRY SOUND WALL SHALL HAVE A MINIMUM LAP LENGTH OF 40 AND 48 TIMES THE BAR DIAMETER, RESPECTIVELY.



WALL TYPICAL SECTION A-A

3/4" = 1'-0"

MAXIMUM WALL HEIGHT "H"	"Hc"	W	C	"A" BARS
15'-6"	7'-6"	6'-0"	4'-10"	#5L @ 8
14'-2"	6'-2"	5'-0"	3'-10"	#5L @ 12



PILASTER - SECTION B-B

3/4" = 1'-0"

S-3

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS RETAINING WALL DETAILS NO. 1

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 16 OF 23 SHEETS

WBS S-11064

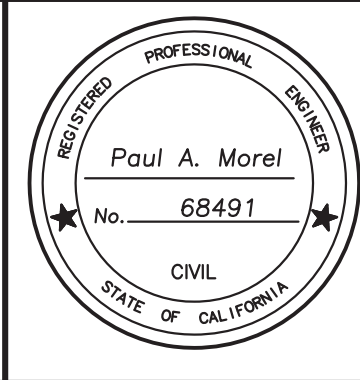
APPROVED: <i>A. Palamp</i> FOR CITY ENGINEER ABI PALASEYED DCE NAME	DATE 11/26/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	SWE	
CONTRACTOR	DATE STARTED	36647-16-D
INSPECTOR	DATE COMPLETED	

WARNING
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

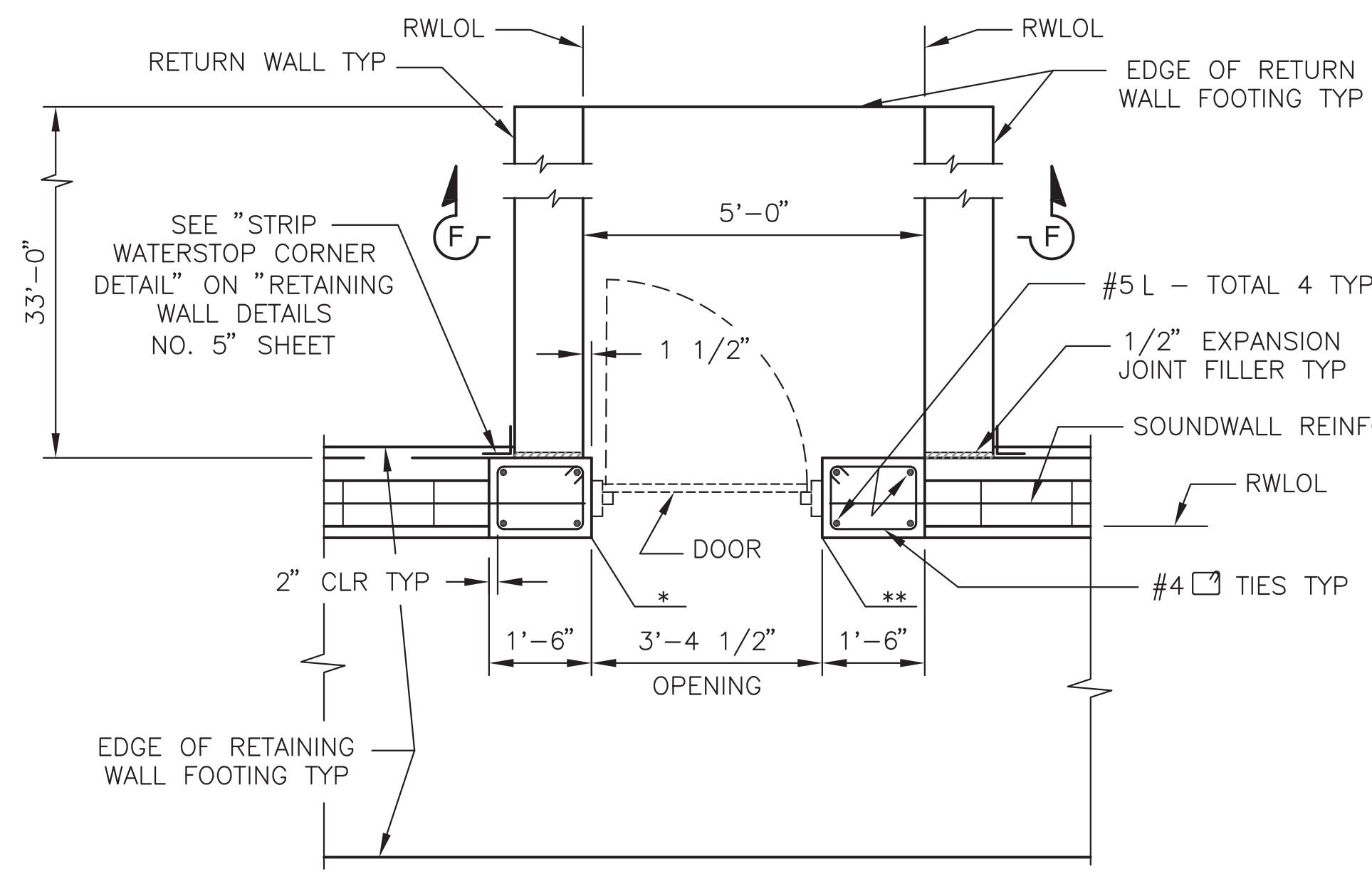
**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



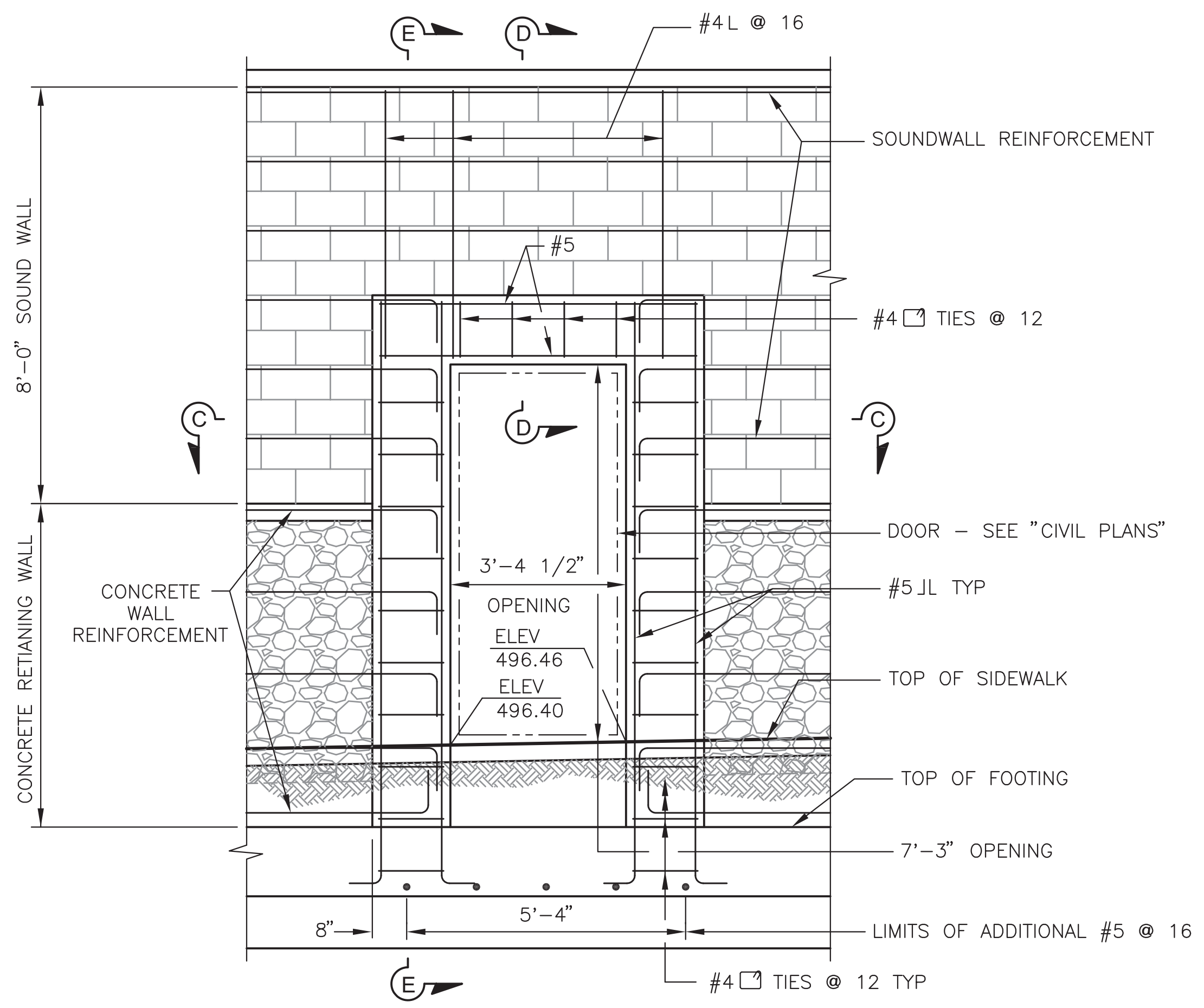
SIMON WONG ENGINEERING
9968 Hibert Street, Second Floor
San Diego, CA 92131 (858) 566-3113
Job: 500-922
DATE: 7/22/13
R.C.E. NO. 68491
PREPARED BY: PAUL A. MOREL
REGISTRATION EXPIRES: 09/30/13



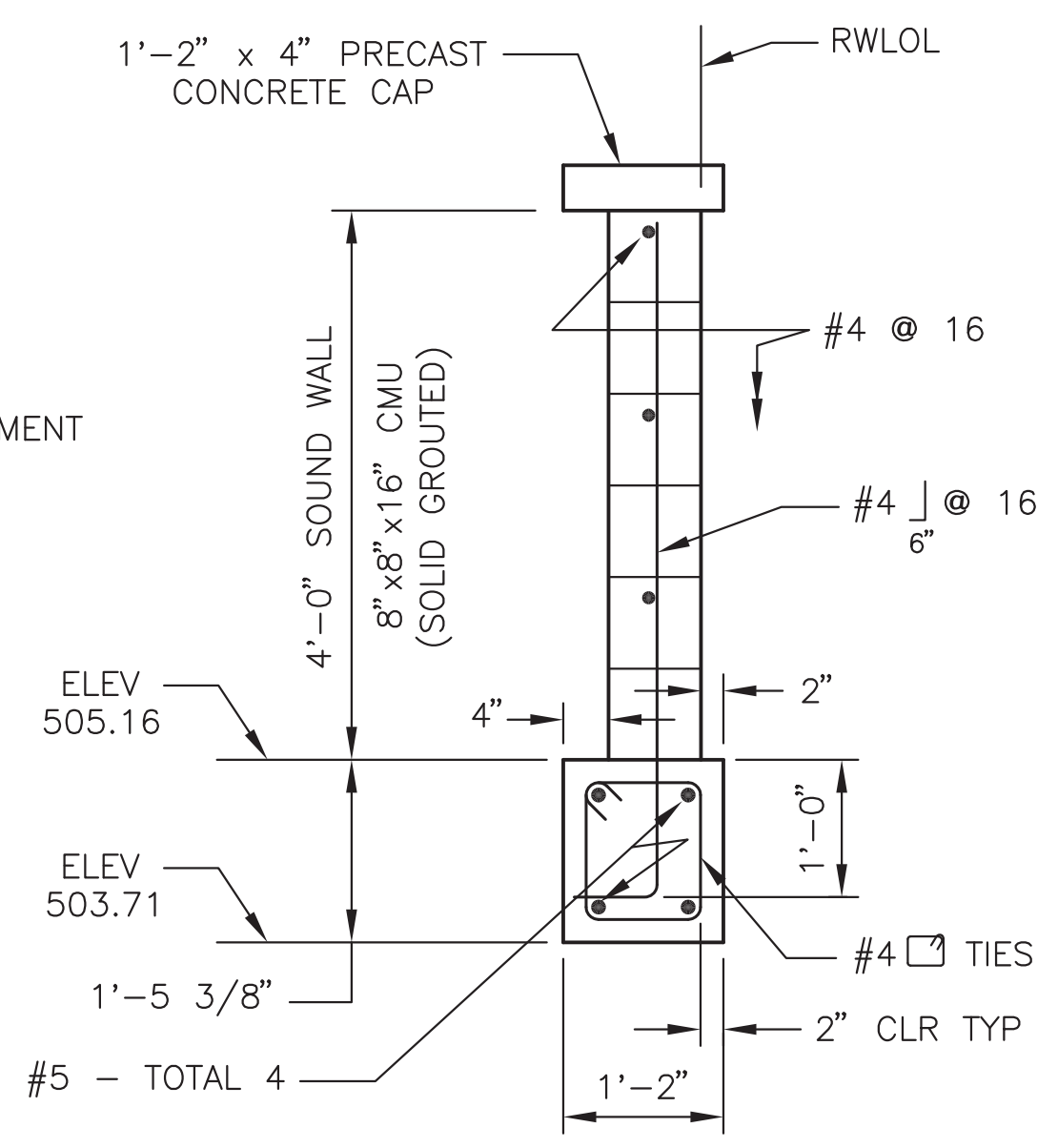
HILLERY DRIVE IMPROVEMENTS



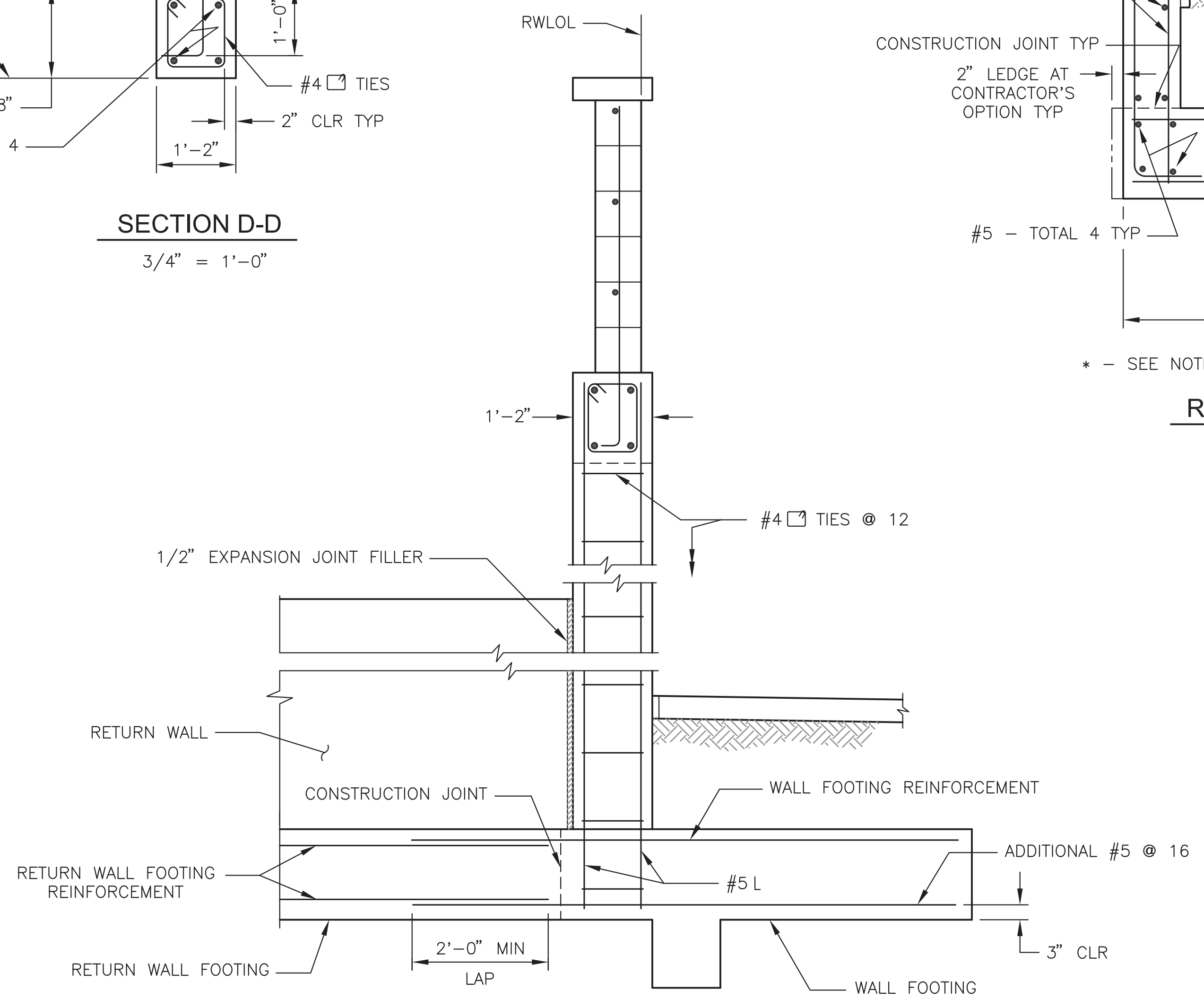
SECTION C-C
1/2" = 1'-0"



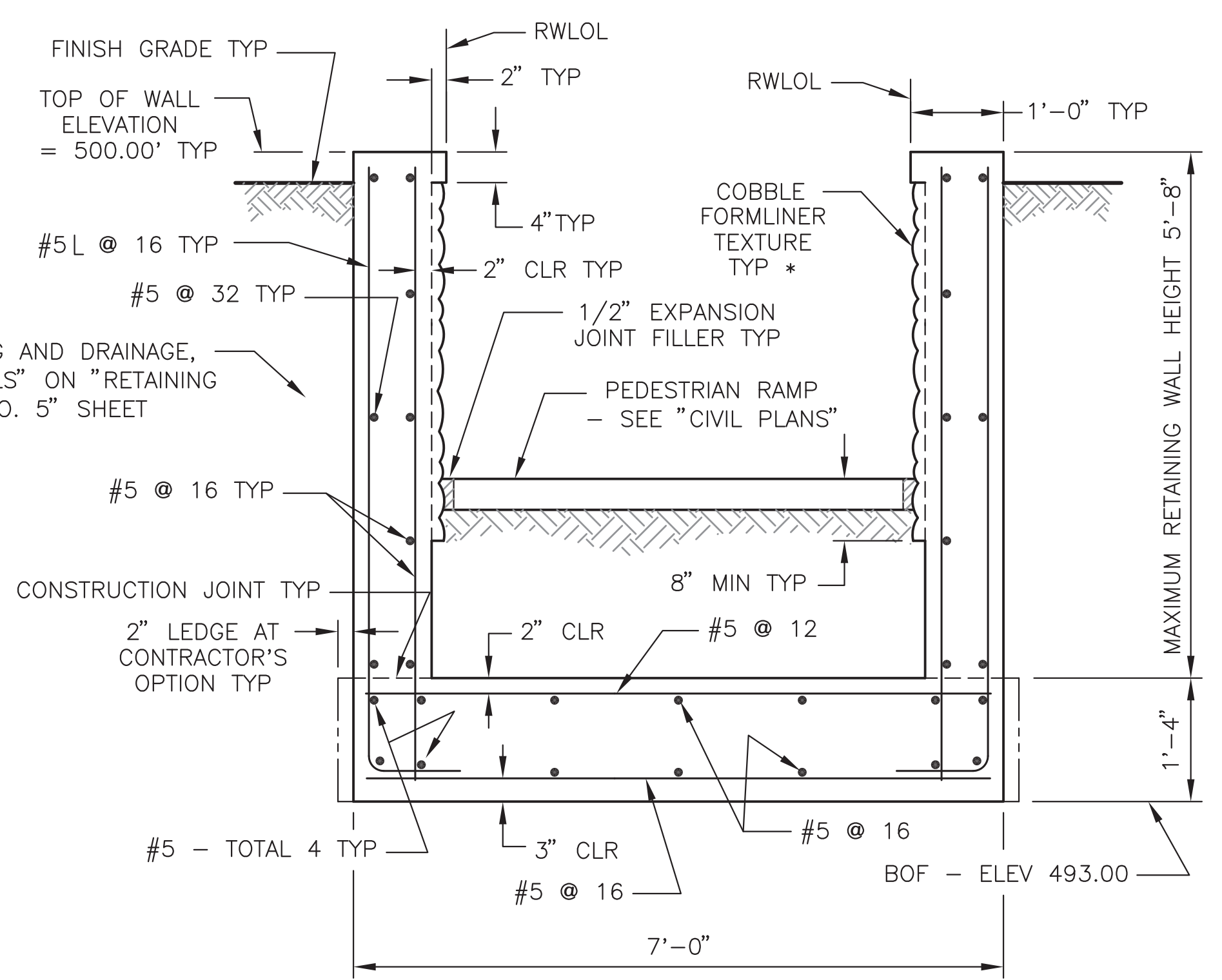
ELEVATION - ADA PATH TO VILLAGE PARK
1/2" = 1'-0"



SECTION D-D
3/4" = 1'-0"



SECTION E-E
3/4" = 1'-0"



RETURN WALL - SECTION F-F
3/4" = 1'-0"

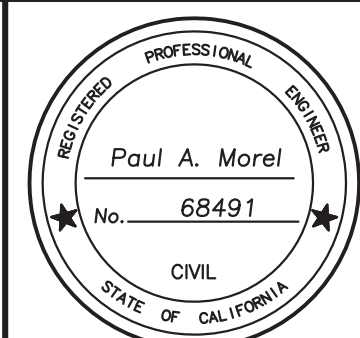
NOTE: FOR INFORMATION NOT SHOWN, SEE "SECTION D-D".

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**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



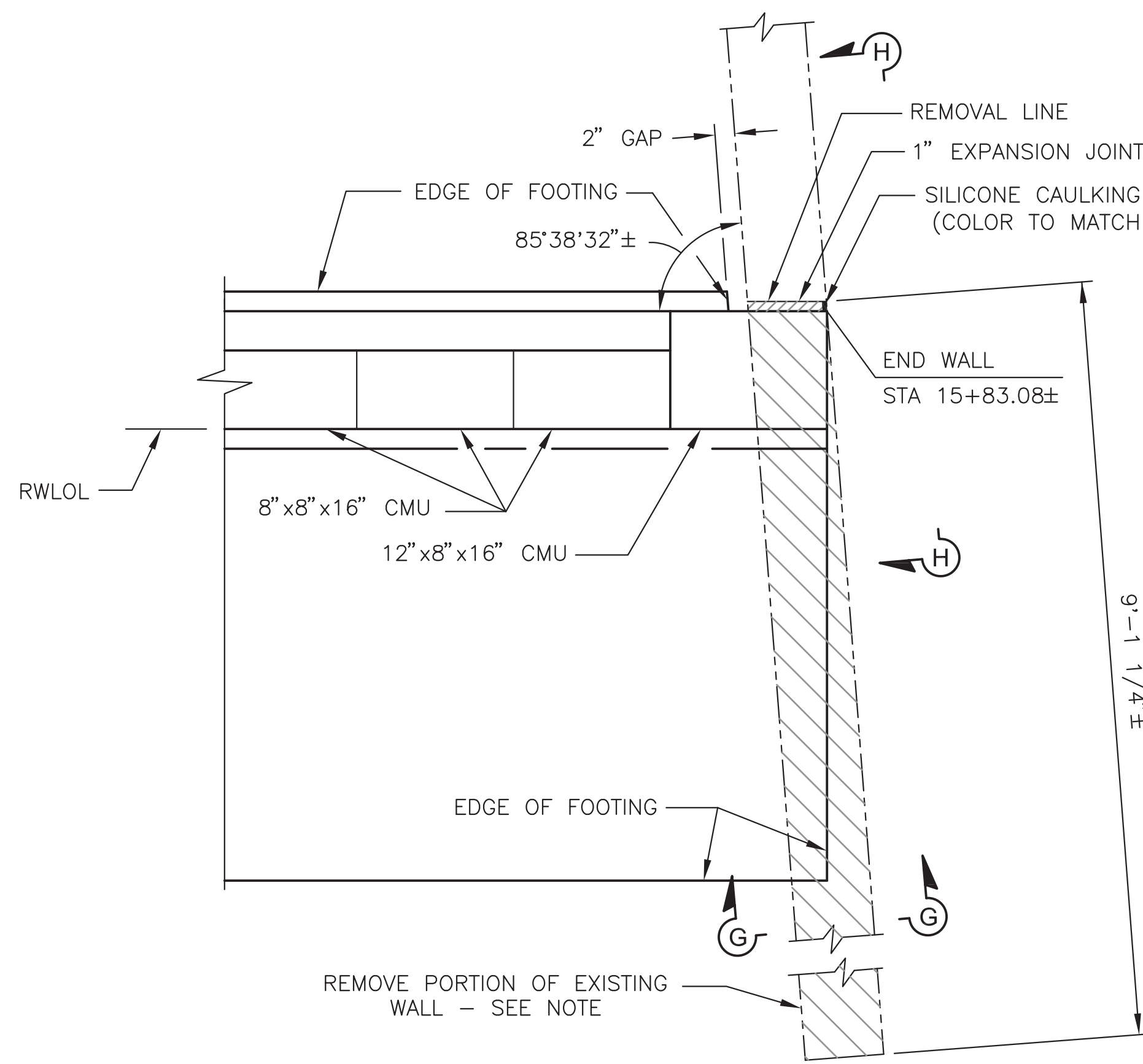
SIMON WONG ENGINEERING
9968 Hibert Street, Second Floor
San Diego, CA 92131 (858) 566-3113
Job: 500-922
DATE: 7/22/13
R.C.E. NO. 68491
PREPARED BY: PAUL A. MOREL
REGISTRATION EXPIRES: 09/30/13



PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS RETAINING WALL DETAILS NO. 2				
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 17 OF 23 SHEETS				WBS S-11064
APPROVED: <i>A. Palacios</i> FOR CITY ENGINEER ABI PALACIOS DCE NAME	DATE 11/26/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER		
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	SWE			
				B. OLSON PROJECT ENGINEER
				270-1731 CC827 COORDINATE
				1910444-6292407 CCS83 COORDINATE
CONTRACTOR		DATE STARTED		36647-17-D
INSPECTOR		DATE COMPLETED		

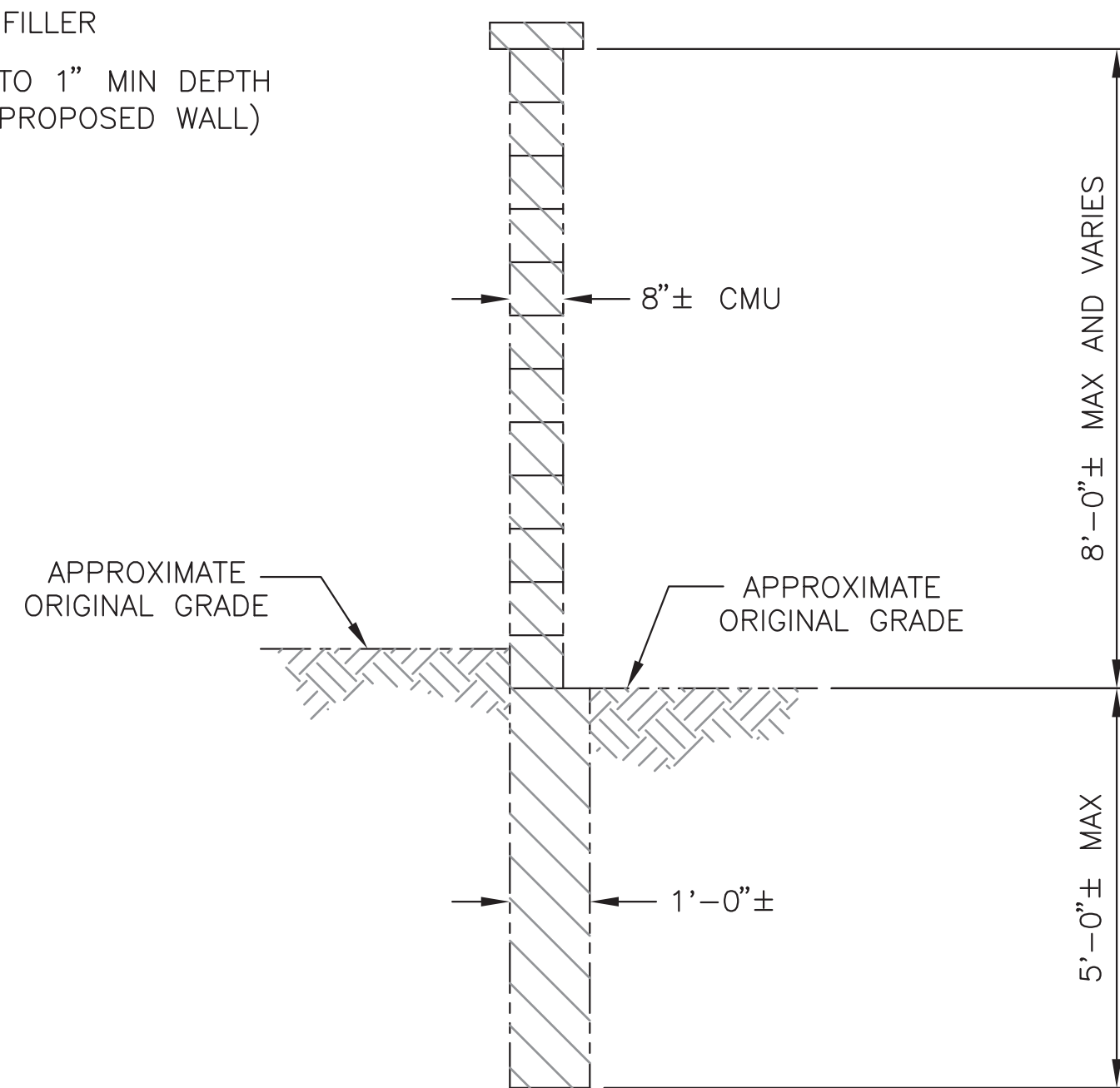
HILLERY DRIVE IMPROVEMENTS

S-4



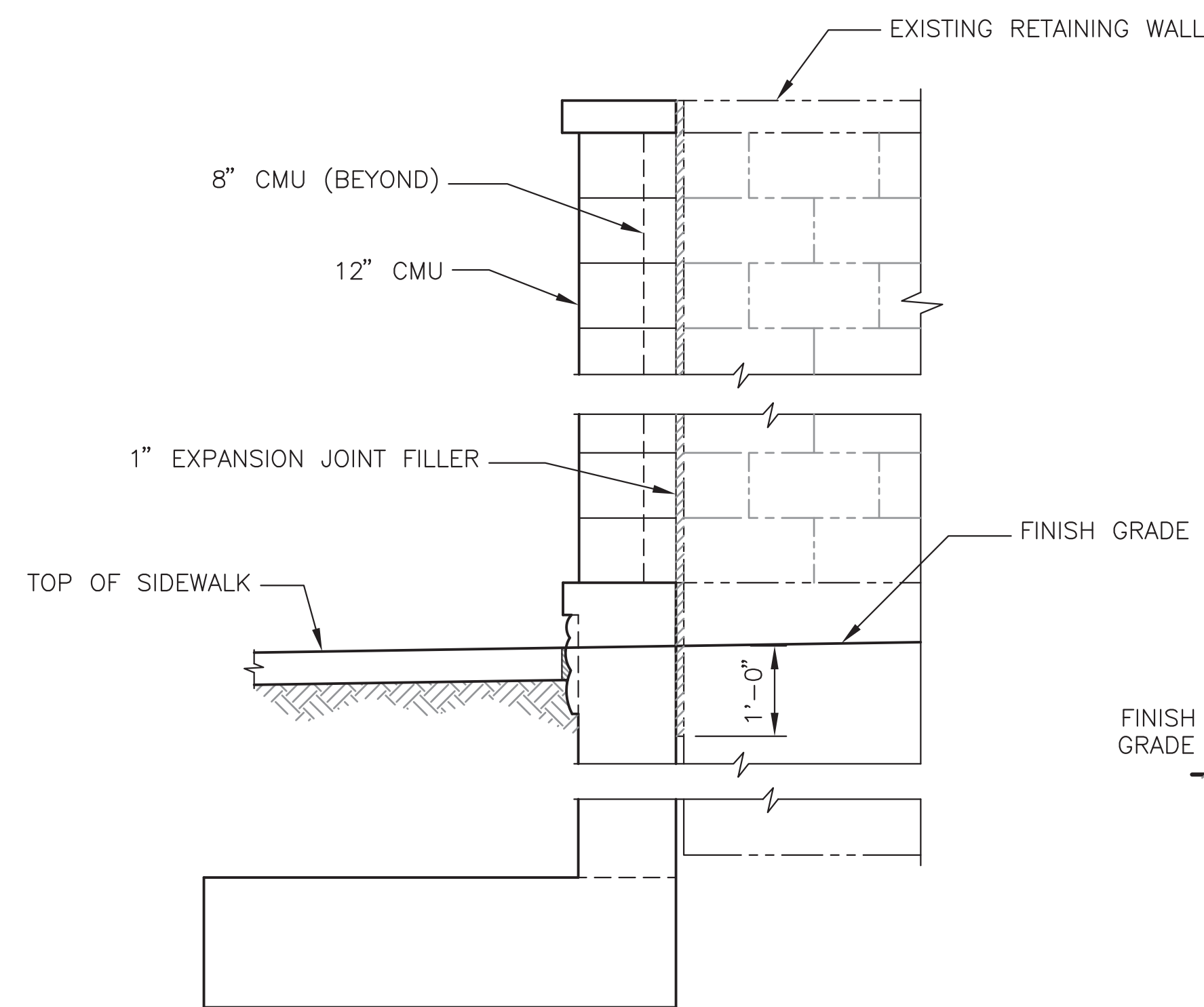
RETAINING WALL EASTERN END DETAIL

1" = 1'-0"



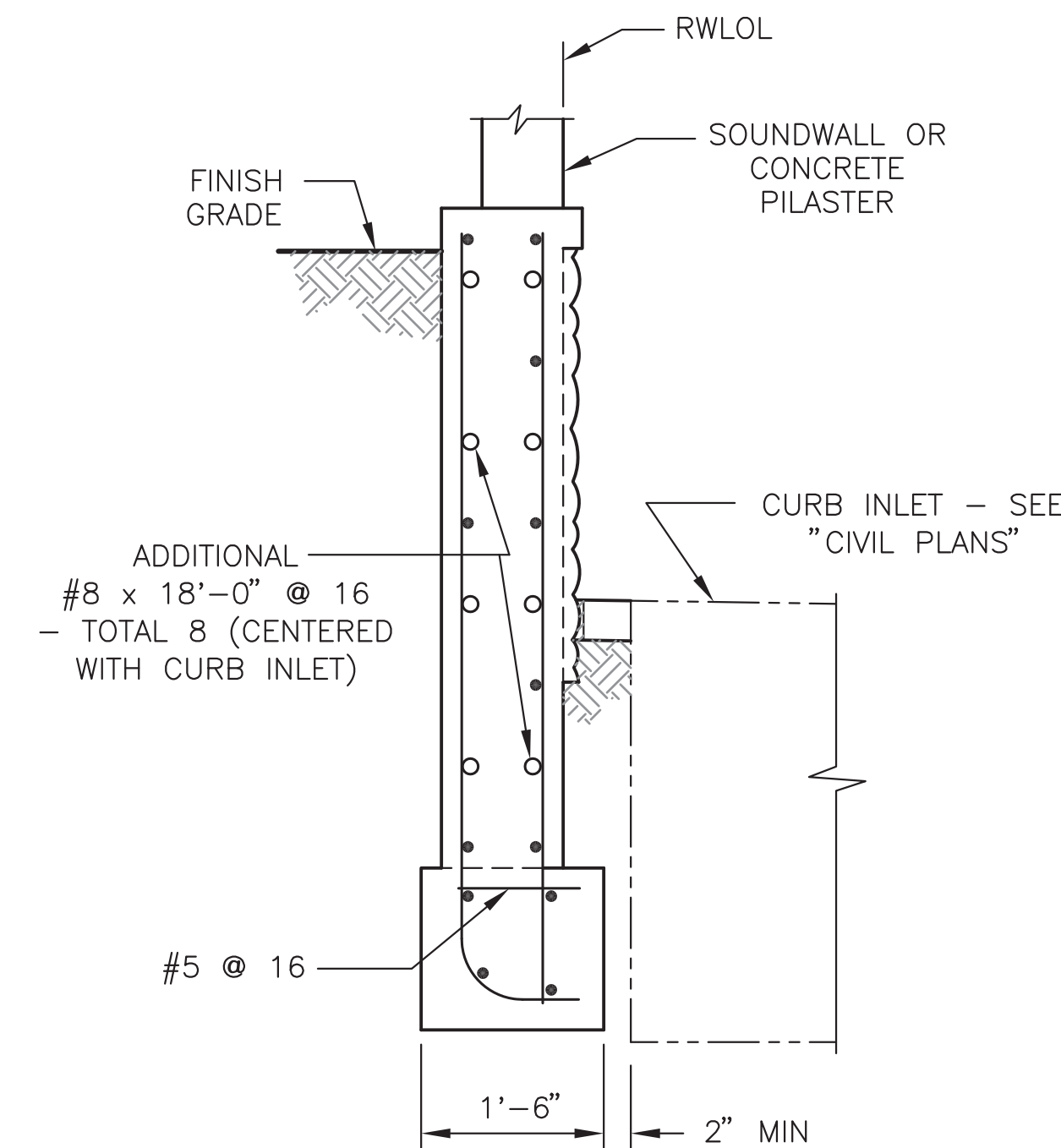
SECTION G-G

1/2" = 1'-0"



SECTION H-H

3/4" = 1'-0"



SECTION K-K

3/4" = 1'-0"

NOTE: FOR INFORMATION NOT SHOWN, SEE "SECTION A-A" ON "RETAINING WALL DETAILS NO. 1" SHEET.

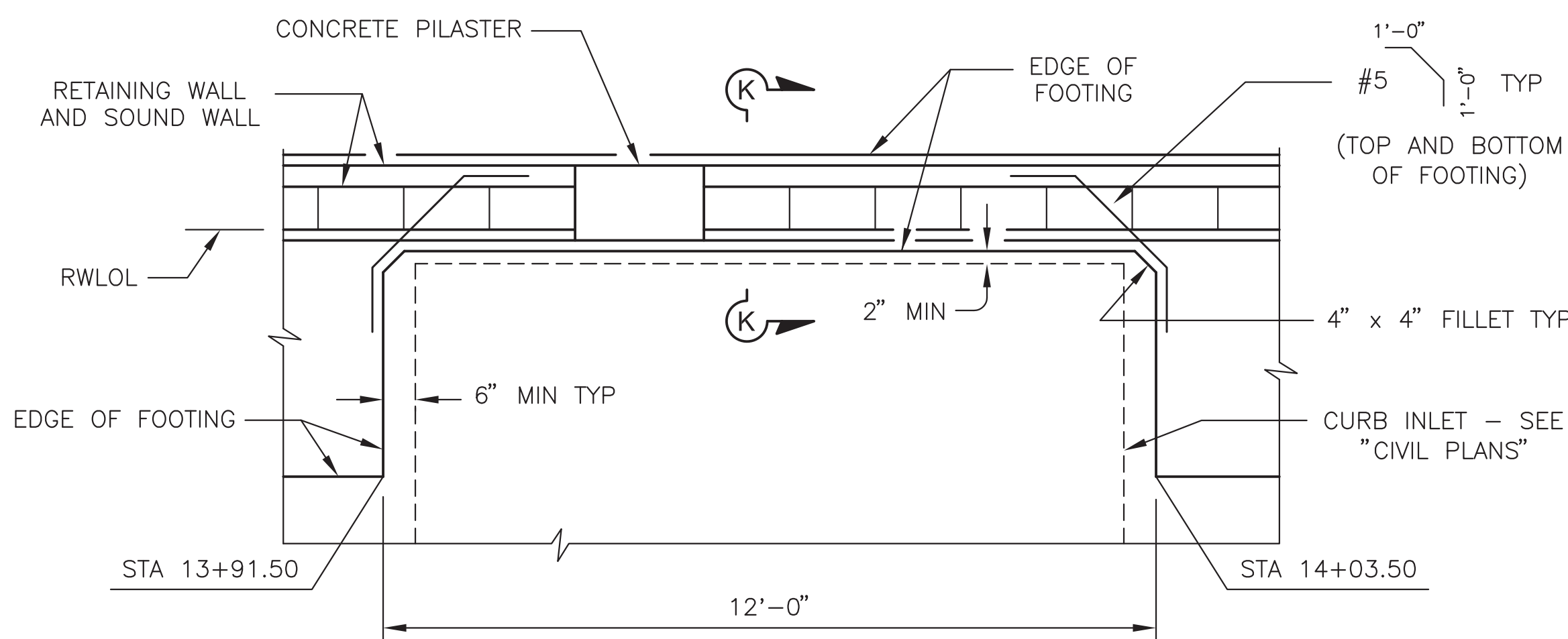
LEGEND:

EXISTING WALL REMOVAL (PORTION)

EXISTING STRUCTURE

NOTE:

EXISTING HORIZONTAL REINFORCEMENT NOT TO REMAIN SHALL BE REMOVED 1" INTO THE EXISTING WALL FINISH SURFACE AND THE RESULTING HOLES PATCHED WITH EPOXY GROUT.



RETAINING WALL DETAIL AT CURB INLET

1/2" = 1'-0"

S-5

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS RETAINING WALL DETAILS NO. 3

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 18 OF 23 SHEETS

WBS S-11064

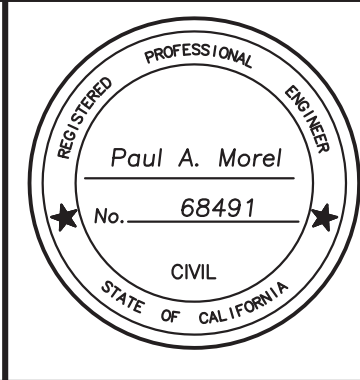
APPROVED: <i>A. Palamuy</i> FOR CITY ENGINEER ABI PALASSY DCE NAME	DATE 11/26/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	SWE	
CONTRACTOR	DATE STARTED	36647-18-D
INSPECTOR	DATE COMPLETED	

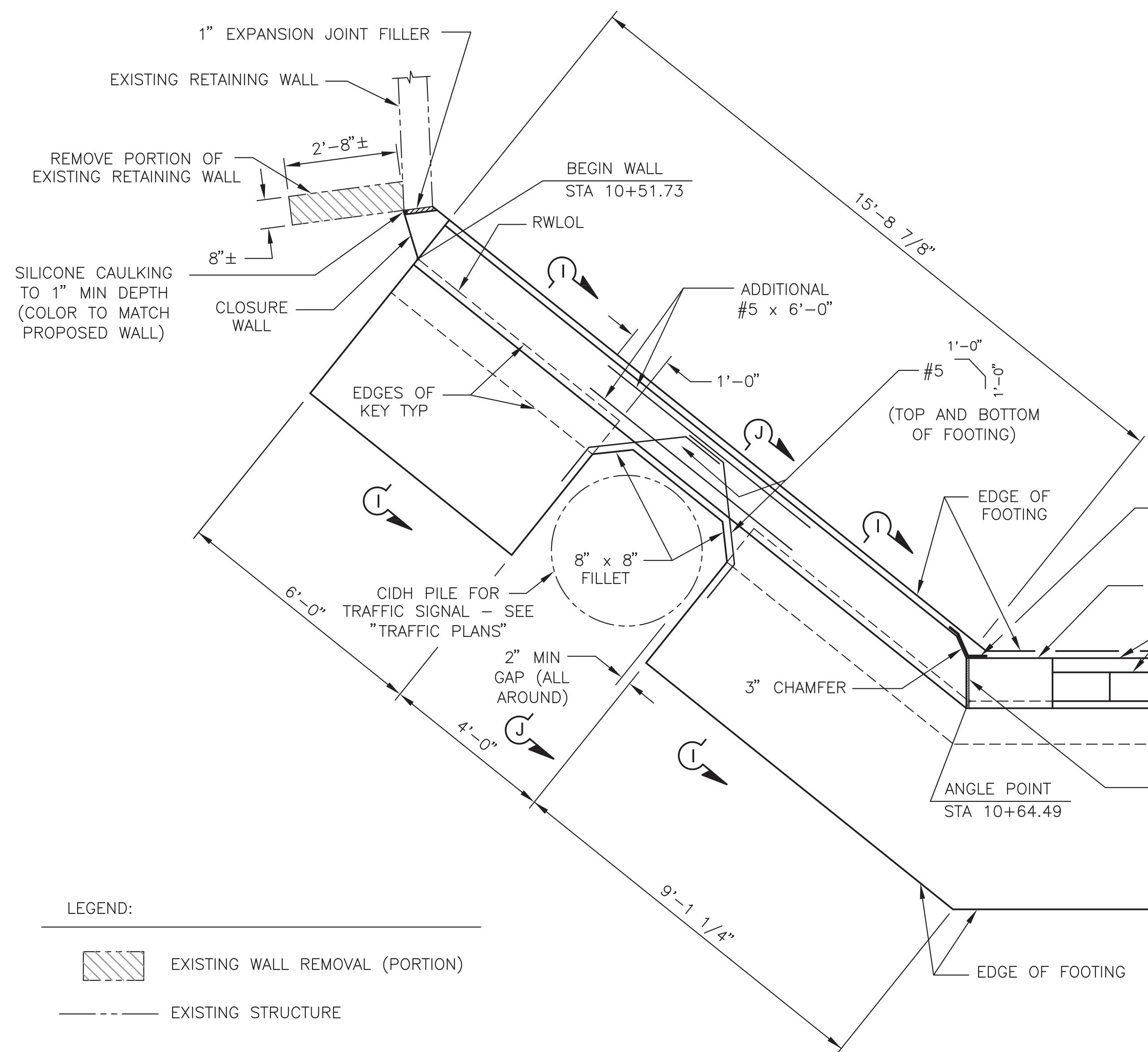
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



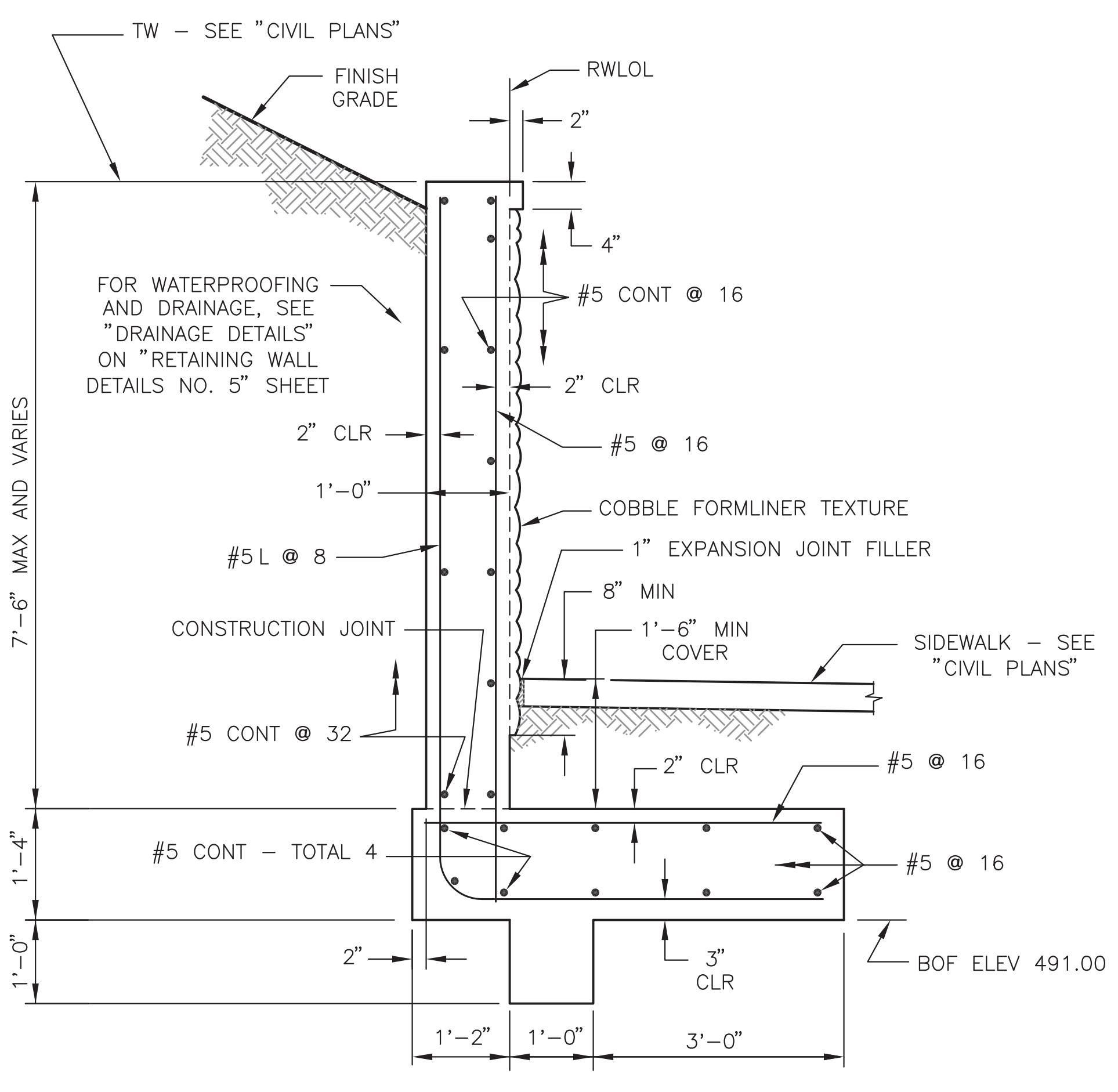
SIMON WONG ENGINEERING
9968 Hibert Street, Second Floor
San Diego, CA 92131 (858) 566-3113
Job: 500-922
DATE: 7/22/13
R.C.E. NO. 68491
PREPARED BY: PAUL A. MOREL
REGISTRATION EXPIRES: 09/30/13





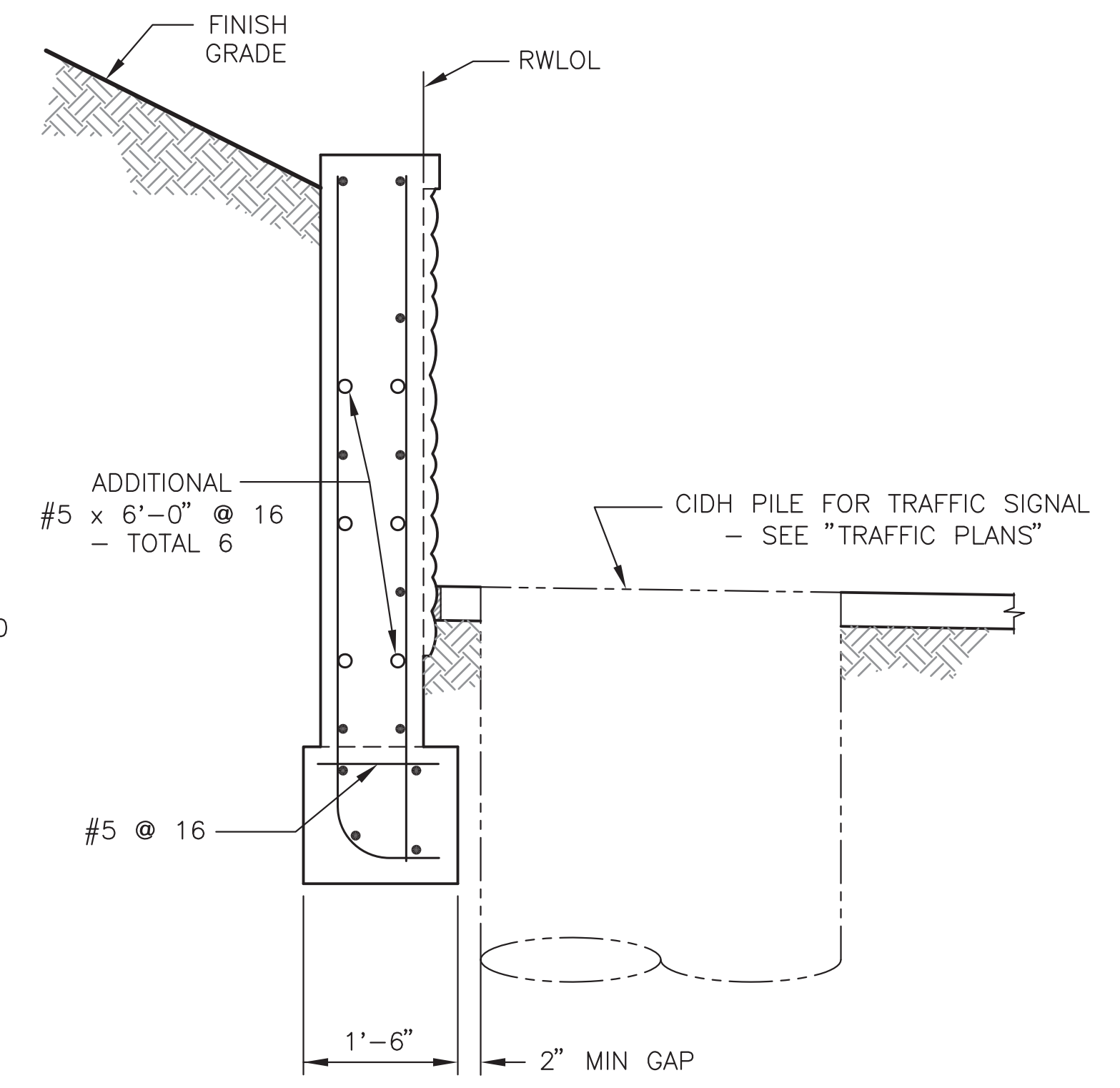
RETAINING WALL WESTERN END DETAIL

1/2" = 1'-0"



SECTION I-I

3/4" = 1'-0"



SECTION J-J

3/4" = 1'-0"

- LEGEND:
- EXISTING WALL REMOVAL (PORTION)
 - EXISTING STRUCTURE

WARNING
0 1
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CITY OF SAN DIEGO
PUBLIC WORKS PROJECT

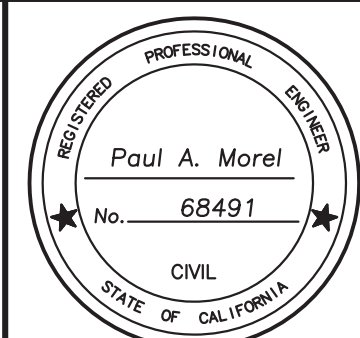


SIMON WONG ENGINEERING
9968 Hibert Street, Second Floor
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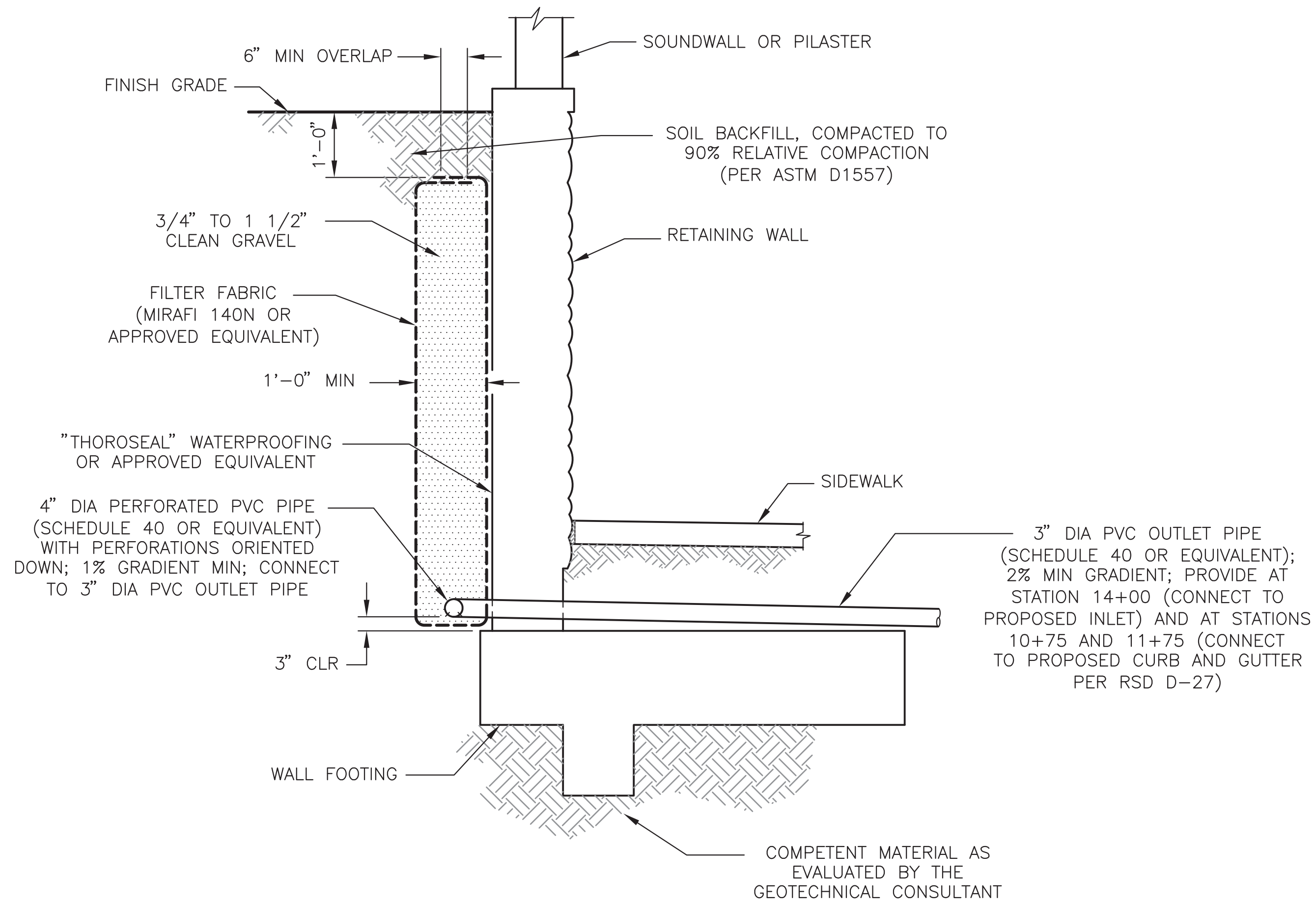
Job: 500-922

DATE: 7/22/13
R.C.E. NO. 68491

PREPARED BY: PAUL A. MOREL
REGISTRATION EXPIRES: 09/30/13

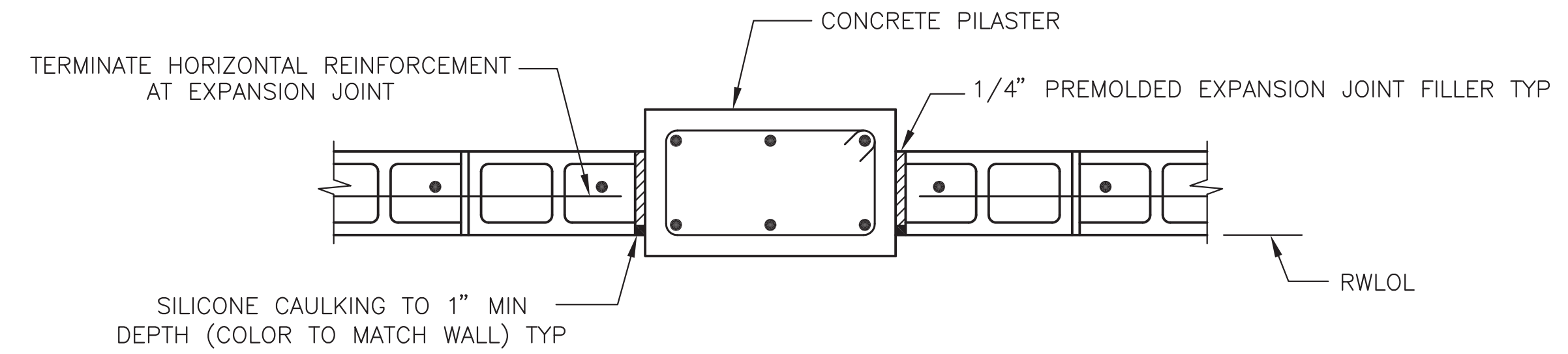


PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS RETAINING WALL DETAILS NO. 4			
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 19 OF 23 SHEETS			WBS S-11064
APPROVED: <i>A. Palacios</i> FOR CITY ENGINEER ABI PALACIOS	DATE 11/26/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER	
DESCRIPTION		BY	APPROVED
ORIGINAL	SWE		
CONTRACTOR		DATE STARTED	36647-19-D
INSPECTOR		DATE COMPLETED	



DRAINAGE DETAILS

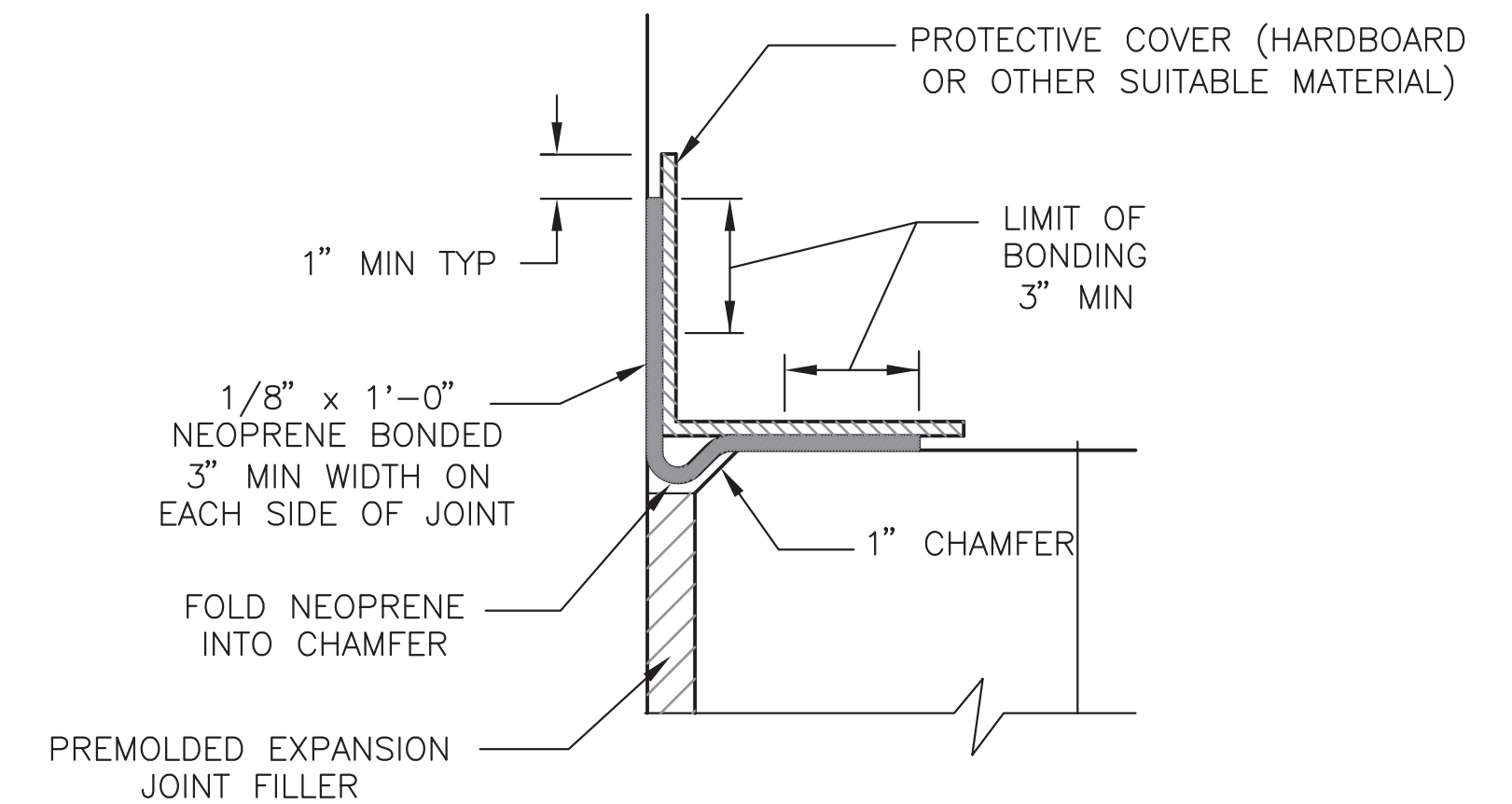
3/4" = 1'-0"



EXPANSION JOINT DETAIL

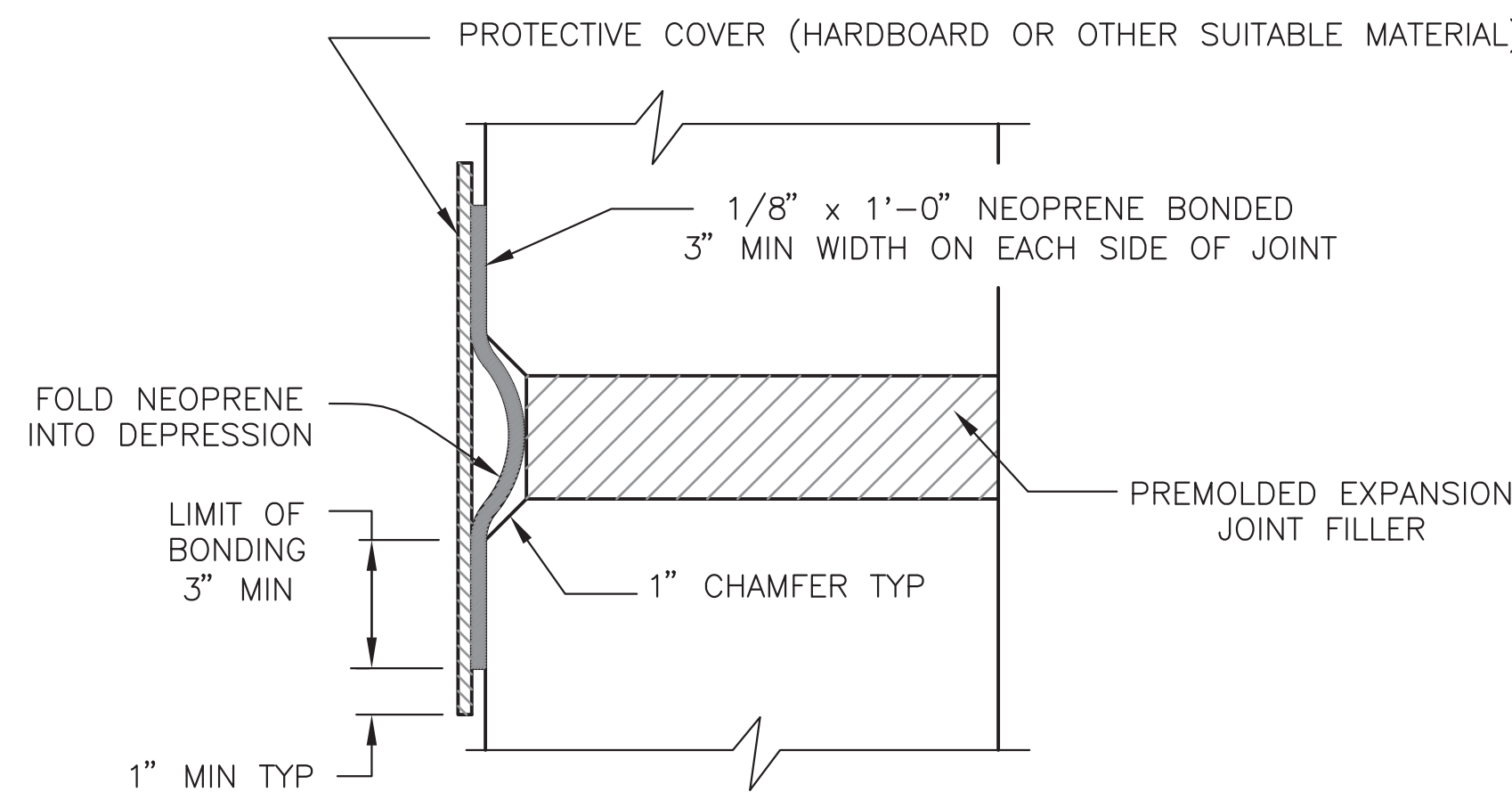
NO SCALE

NOTE: PROVIDE EXPANSION JOINT IN SOUND WALL ON BOTH SIDES OF EACH PILASTER.



STRIP WATERSTOP CORNER DETAIL

NO SCALE



STRIP WATERSTOP DETAIL

NO SCALE

S-7

PLANS FOR THE CONSTRUCTION OF
HILLERY DRIVE IMPROVEMENTS
RETAINING WALL DETAILS NO. 5

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 20 OF 23 SHEETS

WBS S-11064

APPROVED: <i>A. Palacios</i> FOR CITY ENGINEER ABI PALACIOS	DATE 11/26/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
DCE NAME:		B. OLSON PROJECT ENGINEER
DESCRIPTION	BY	APPROVED
ORIGINAL	SWE	
		DATE
		FILMED
CONTRACTOR	DATE STARTED	36647-20-D
INSPECTOR	DATE COMPLETED	

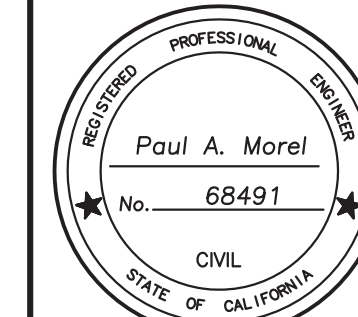
WARNING
0 1
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CITY OF SAN DIEGO
PUBLIC WORKS PROJECT



SIMON WONG ENGINEERING
9968 Hibert Street, Second Floor
San Diego, CA 92131 (858) 566-3113

Job: 500-922
DATE: 7/22/13
R.C.E. NO. 68491
PREPARED BY: PAUL A. MOREL
REGISTRATION EXPIRES: 09/30/13



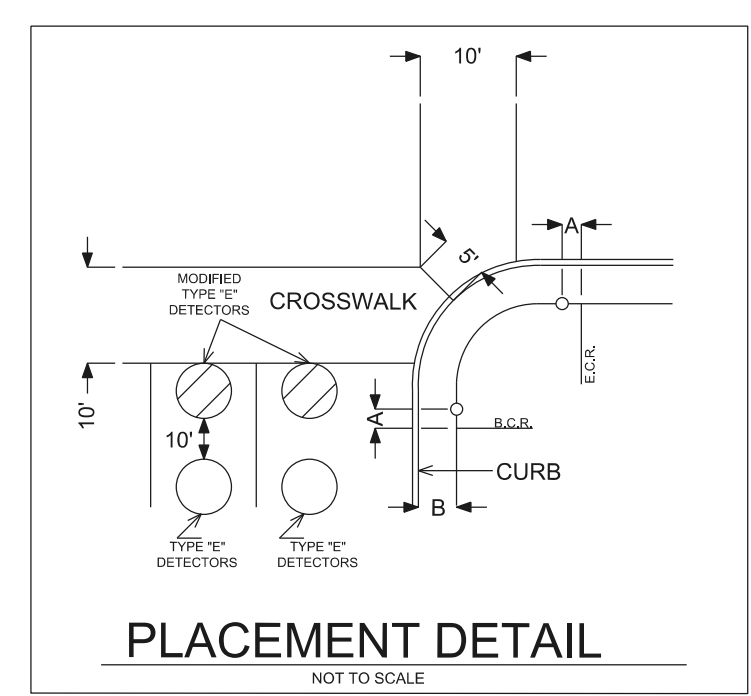
HILLERY DRIVE IMPROVEMENTS

CONSTRUCTION NOTES

- 1 REMOVE AND SALVAGE EXISTING 29-5-70 TRAFFIC SIGNAL POLE SIGNAGE AND EQUIPMENT AND INSTALL NEW 29-5-100 TRAFFIC SIGNAL POLE TO NEW LOCATION ON NEW FOUNDATION. LUMINAIRE SHALL BE BROAD-SPECTRUM INDUCTION LIGHTING.
- 2 FURNISH AND INSTALL NEW LOOP DETECTOR, CONDUCTORS, DLC, AND ALL OTHER EQUIPMENT NECESSARY FOR PROPER OPERATION. PULL NEW DLC TO CONTROLLER.
- 3 INSTALL NEW #6 PULL BOX AS DIRECTED BY THE RESIDENT CITY ENGINEER.
- 4 ABANDON CONDUIT IN PLACE PER STATE STANDARDS. REMOVE AND DISPOSE OF CONDUCTORS AS REQUIRED
- 5 INSTALL 2" C, 2 DLC. PULL NEW DLC TO CONTROLLER.
- 6 INSTALL 2" C, 1 DLC. PULL NEW DLC TO CONTROLLER.
- 7 INSTALL 2" C, 1 DLC. PULL NEW DLC TO CONTROLLER.
- 8 FURNISH AND INSTALL NEW LOOP DETECTOR AND WIRE, CONDUCTORS, AND ALL OTHER EQUIPMENT NECESSARY FOR PROPER OPERATION.
- 9 REMOVE AND REPLACE EXISTING LUMINAIRE WITH BROAD-SPECTRUM INDUCTION LIGHTING.
- 10 INSTALL NEW #5 PULL BOX AS DIRECTED BY THE RESIDENT CITY ENGINEER.
- 11 INSTALL DETECTOR HAND HOLE, PER CALTRANS STANDARD DRAWINGS ES-5D.
- 12 INSTALL NEW R61-15(MOD) SIGN.



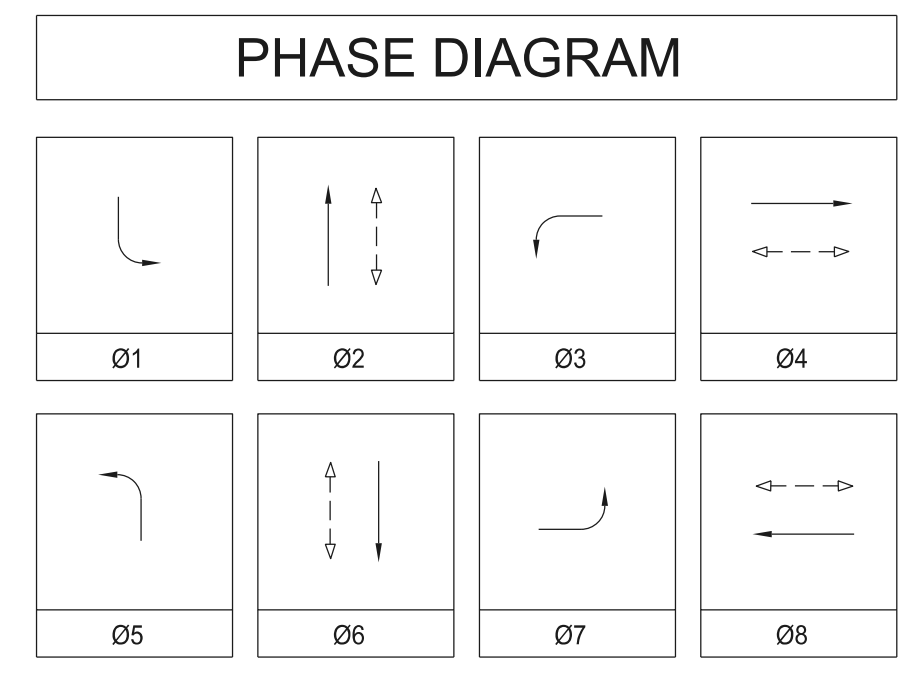
CALL "811" TWO WORKING DAYS BEFORE YOU DIG!



PLACEMENT DETAIL
NOT TO SCALE

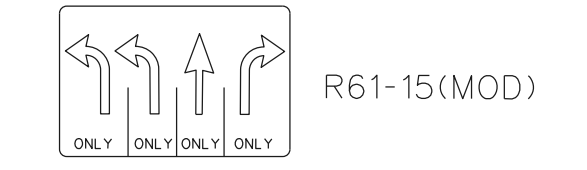
DETECTOR ASSIGNMENT			
DET.	PHASE	SLOT	FIELD TERMINAL
1	2	I2U	T2-5&6
2	2	I2L	T2-7&8
3	2	I3U	T2-9&10
4	2	I3L	T2-11&12
5	2	I4U	T4-1&2
6	5	J1U	T3-1&2
7	4	I6U	T4-9&10
8	4	I6L	T4-11&12
9	7	J5U	T5-5&6
10	6	J2U	T3-5&6
11	6	J2L	T3-7&8
12	6	J3U	T3-9&10
13	6	J3L	T3-11&12
14	1	I1U	T2-1&2
15	8	J6U	T5-9&10
16	8	J6L	T5-11&12
17	8	J7U	T7-1&2
18	8	J7L	T7-3&4
19	3	I5U	T4-5&6
20	3	I5L	T4-7&8
PPB	2P	I12U	T8-4&COM 6
PPB	4P	I12L	T8-5&COM 6
PPB	6P	I13U	T8-7&COM 9
PPB	8P	I13L	T8-8&COM 9
EVA	2+5	J12U	T9-4&COM 6
EVB	4+7	J13U	T9-7&COM 9
EVC	1+6	J12L	T9-5&COM 6
EVD	3+8	J13L	T9-8&COM 9
FLASH	-	I14U	T8-10&COM 12

POLE SCHEDULE													
No.	STANDARD				LUMINAIRE INDUCTION	PLACEMENT		SIGNAL MOUNTING		PEDESTRIAN		REMARKS	
	TYPE	HGT.	SIG. MA	LUM. MA		A	B	VEHICLE	SIGNAL	PPB			
(A)	26-3-70	30'	45'	15'	165W IND.	11'	12.5'	MAS	MAT	SV-2-TB	SP-2-T	Ø4,Ø6	UPGRADE EXIST. LUMINAIRE
(B)	26-4-70	30'	40'	15'	165W IND.	17'	9'	MAS	MAT	SV-2-TB	SP-2-T	Ø6,Ø8	UPGRADE EXIST. LUMINAIRE
(C)	29-5-70	30'	40'	15'	250W HPS	10'	4'	MAS	MAT	SV-2-TB	SP-2-T	Ø2,Ø8	REMOVE AND SALVAGE
(C)	29-5-100	30'	50'	15'	165W IND.	12'	10'	MAS	MAT	SV-2-TB	SP-2-T	Ø2,Ø8	REPLACE POLE (C)
(D)	26-4-100	30'	40'	15'	165W IND.	10'	4'	MAS	MAT	SV-2-TB	SP-2-T	Ø2,Ø4	UPGRADE EXIST. LUMINAIRE



FLASHING OPERATION SHALL BE ALL RED

MAST ARM MOUNTED SIGNS



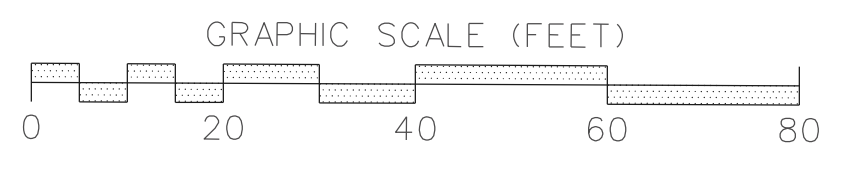
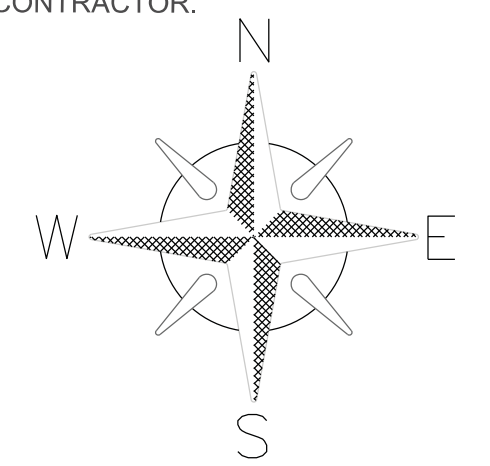
POLE (B)

CONDUCTOR TABLE		CONDUIT SIZE & RUN					
AWG SIZE OR CABLE TYPE	PHASE	POLE OR CIRCUIT	3"	3"	3"	2-3"	
			1	2	3	4	5
3	12	POLE - A				2	2
		POLE - B				2	2
		POLE - C	2	2	2	2	2
		POLE - D	2	2	2	2	2
TOTAL CABLES	3 CONDUCT. / 12 CONDUCT.	2	4	2	2	8	
NO. 6	SIGNAL SERVICE	1	1			1	
NO. 10	LIGHTING	2	2	2	2		
6 PAIR NO. 22	(SIC) INTERCONNECT CABLE	1	1			2	
TYPE "B" DLC	LOOP DETECTOR	Ø1				1	1
		Ø2				5	5
		Ø3	2	2			2
		Ø4					2
		Ø5				1	1
		Ø6				4	4
		Ø7					1
		Ø8	4	4			4
TOTAL DLC		6	12	5	0	20	
EMERGENCY VEHICLE DETECTOR (EV-DLC)		1	2	1	1	4	

BLACK MOUNTAIN ROAD

HILLERY DRIVE

- 13 2" C, 1#6, 2#10, 1#8
- 14 ABANDON EXISTING DETECTORS IN PLACE.
- 15 FURNISH AND INSTALL EMERGENCY VEHICLE PRE-EMPTION EQUIPMENT PER CITY STANDARD SPECIAL PROVISIONS. MOUNTING HARDWARE AND CABLE SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.



**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



ERIK RUEHR
REGISTRATION EXPIRES: 06-30-14

DATE: 9/12/2013
R.C.E. NO. 37129

VRPA TECHNOLOGIES, INC.
9520 PADGETT STREET, SUITE 213
(858)566-1766
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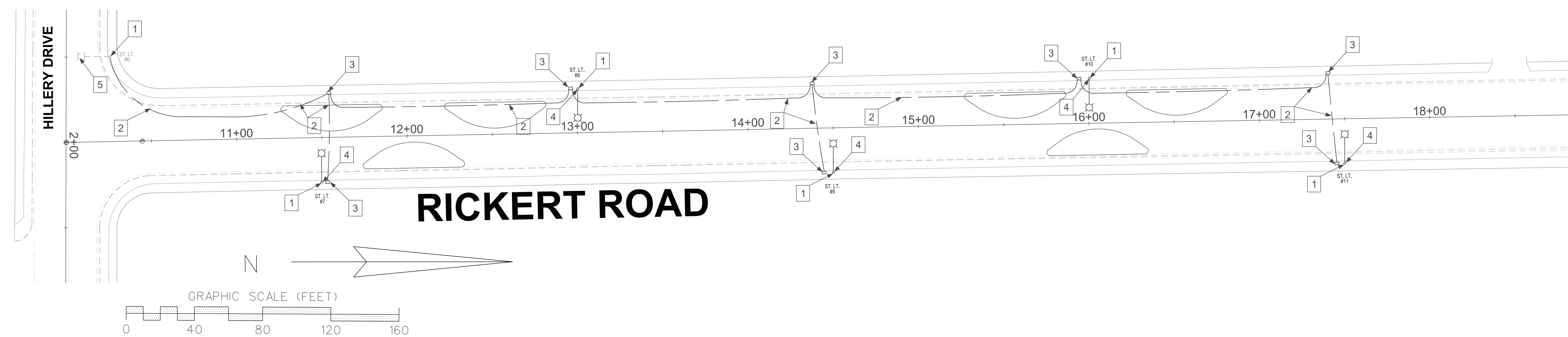
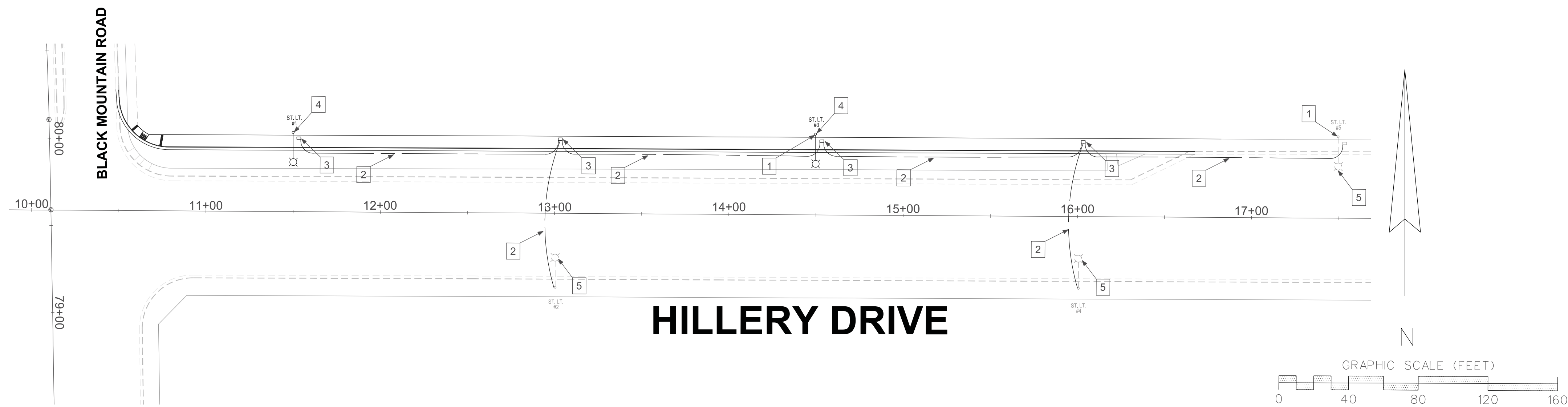


APPROVED: <i>A. Palomares</i> 11/26/13 FOR CITY ENGINEER ABI PALASEYED DATE				SUBMITTED BY: J. MANCHESTER PROJECT MANAGER	
DESCRIPTION: ORIGINAL				BY: VRPA	
DATE: _____				FILMED: _____	
CONTRACTOR: _____				DATE STARTED: _____	
INSPECTOR: _____				DATE COMPLETED: _____	
CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 21 OF 23 SHEETS				wbs_S-11064	
270-1731 CCS27 COORDINATE				1910444-6292407 CCS83 COORDINATE	
36647-21-D					

HILLERY DRIVE IMPROVEMENTS

E-1

**PLANS FOR THE CONSTRUCTION OF
HILLERY DRIVE IMPROVEMENTS
SIGNAL MODIFICATION PLAN**



STREET LIGHT NOTES

- CONTRACTOR INSTALLING THE STREET LIGHTING DISTRIBUTION SYSTEM SHALL NOTIFY THE CITY FIELD ENGINEER, AT (858) 627-3200, A MINIMUM OF THREE (3) DAYS PRIOR TO STARTING OF WORK FOR APPROVAL OF CONDUIT LOCATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL VERIFY THAT ALL STREET LIGHTS ARE ACTIVATED AND SHALL NOTIFY THE CITY FIELD ENGINEER, AT (858) 627-3200, A MAXIMUM OF FOUR (4) WEEKS AFTER FINAL ELECTRICAL INSPECTION.
- NATIONAL ELECTRICAL CODE (NEC) WIRE COLOR CODING SHALL BE USED FOR ALL ELECTRICAL WORK.
- THE IMPROVEMENT PLANS SHOULD SHOW ALL OF THE EXISTING AND PROPOSED STREET LIGHTS, PULL BOXES AND SERVICE POINTS IN THE VICINITY OF THE PROJECT AREA.
- STREET LIGHT SCHEDULE

LIGHT NO.	STREET NAME	LOCATION REFERENCE*	CORNER/ STREET SIDE	TYPE OF WORK/WATTAGE**	POLE NOTES
1	HILLERY DRIVE	140' EAST OF BLACK MTN. ROAD	NORTHSIDE	(U) 85W IND.	
2	HILLERY DRIVE	290' EAST OF BLACK MTN. ROAD	SOUTHSIDE	(N) 85W IND.	
3	HILLERY DRIVE	440' EAST OF BLACK MTN. ROAD	NORTHSIDE	(U) 85W IND.	
4	HILLERY DRIVE	590' EAST OF BLACK MTN. ROAD	SOUTHSIDE	(U) 85W IND.	
5	HILLERY DRIVE	740' EAST OF BLACK MTN. ROAD	NORTHSIDE	(N) 85W IND.	
6	RICKERT ROAD	25' NORTH OF HILLERY DRIVE	WESTSIDE	(U) 85W IND.	
7	RICKERT ROAD	150' NORTH OF HILLERY DRIVE	EASTSIDE	(N) 85W IND.	
8	RICKERT ROAD	300' NORTH OF HILLERY DRIVE	WESTSIDE	(N) 85W IND.	
9	RICKERT ROAD	450' NORTH OF HILLERY DRIVE	EASTSIDE	(N) 85W IND.	
10	RICKERT ROAD	600' NORTH OF HILLERY DRIVE	WESTSIDE	(N) 85W IND.	
11	RICKERT ROAD	750' NORTH OF HILLERY DRIVE	EASTSIDE	(N) 85W IND.	

*LOCATION REFERENCE FOR MID-BLOCK STREET LIGHTS: APPROXIMATE DISTANCE FROM CENTERLINE OF NEAREST CROSS STREET.
 **TYPE OF WORK: NEW (N), UPGRADE (U), AND RELOCATE (R).

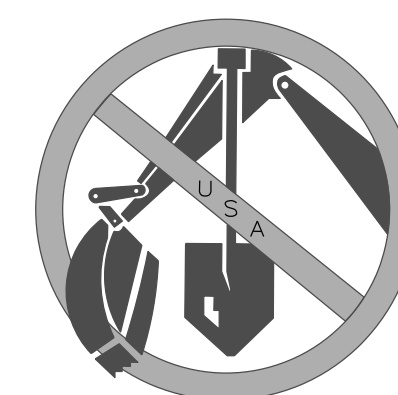
- STREET LIGHT SCHEDULE GUIDELINES:
 - STREET LIGHT LUMINAIRES SHALL BE BROAD-SPECTRUM INDUCTION LIGHTING.
 - STREET LIGHT STANDARDS SHALL BE EITHER TYPE 15 STEEL, ANCHOR BASE CONCRETE (AB), OR DIRECT BURIAL CONCRETE (DB), AND SHALL CONFORM TO CURRENT STANDARD DRAWING SDE-101.
 - MID-BLOCK STREET LIGHTING SHALL BE SPACED IN ACCORDANCE WITH THE CITY OF SAN DIEGO STREET DESIGN MANUAL, STREET LIGHTING SECTION (LT), PG. 94 AND CITY COUNCIL POLICY 200-18 (ADOPTED MAY 30, 1995; AMENDED JANUARY 10, 2000)
 - SUPPLEMENTAL AND SPECIAL ORNAMENTAL STREET LIGHTING SHALL BE INCLUDED IN A SPECIAL STREET LIGHTING ASSESSMENT DISTRICT OR MAINTENANCE ASSESSMENT DISTRICT AND SHALL BE DESIGNATED WITH AN ASTERISK NEXT TO THE STREET LIGHT NUMBER. THE DEVELOPER/APPLICANT WILL BE ASSESSED THE COST OF THE STREET LIGHTS FOR THE PERIOD FROM THE DATE THE LIGHTS ARE ENERGIZED TO THE DATE ASSESSMENT DISTRICT IS FORMED. THE FEE MUST BE PAID PRIOR TO THE ENERGIZING OF THE STREET LIGHTS. THE DEVELOPER/APPLICANT SHALL CONTACT ANDY FIELD, PARK & RECREATION MAINTENANCE ASSESSMENT DISTRICT, AT (619) 533-8724 TO DETERMINE THE TOTAL FEE.
 - ALL PRIVATE STREET LIGHTS SHALL HAVE SEPARATE SERVICE POINT AND SHALL NOT BE CONNECTED TO THE CITY CIRCUITS.
 - ANY PRIVATE STREET LIGHTS SHOWN ON THESE PLANS ARE FOR INFORMATION ONLY. PROPOSED PRIVATE STREET LIGHTS SHALL BE PERMITTED AND INSPECTED UNDER A SEPARATE ELECTRICAL PERMIT.

CONSTRUCTION NOTES

- EXISTING LIGHT STANDARD. PROVIDE CONCRETE BASE AND SPLICEBOX.
- INSTALL 2" C PVC SCHEDULE 80 WITH (2) #2 XHHW, CU & (1) #4 CU GND.
- INSTALL FLUSH-IN-GRADE PULL BOX.
- INSTALL NEW SINGLE LUMINAIRE STREET LIGHT STANDARD WITH BROAD SPECTRUM INDUCTION LIGHTING.
- EXISTING STREET LIGHT STANDARD. REMOVE AND SALVAGE EXISTING LUMINAIRE AND INSTALL BROAD SPECTRUM INDUCTION LIGHTING.

LEGEND

SYMBOL	DESCRIPTION
	SINGLE LUMINAIRE STREET LIGHT STANDARD
	SINGLE LUMINAIRE STREET LIGHT STANDARD (EXISTING)
	UNDERGROUND CONDUIT AND CABLE (2" C. PVC SCHEDULE 80 WITH (2) #2 XHHW, CU, & (1) #4 CU GROUND)
	NEW FLUSH-IN-GRADE PULLBOX



CALL "811" TWO WORKING DAYS BEFORE YOU DIG!

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ERIK RUEHR
 PREPARED BY: ERIK RUEHR
 DATE: 9/12/2013
 R.C.E. NO. 37129

WARNING

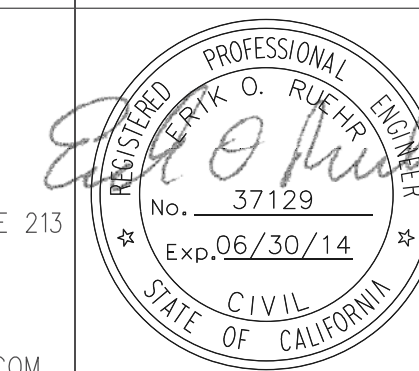
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO
 PUBLIC WORKS PROJECT



ERIK RUEHR
 PREPARED BY: ERIK RUEHR
 REGISTRATION EXPIRES: 06-30-14
 DATE: 9/12/2013
 R.C.E. NO. 37129

VRPA TECHNOLOGIES, INC.
 9520 PADGETT STREET, SUITE 213
 (858) 566-1766
 (858) 566-0243
 ERUEHR@VRPATECHNOLOGIES.COM



PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS LIGHTING PLAN

CITY OF SAN DIEGO, CALIFORNIA PUBLIC WORKS DEPARTMENT SHEET 22 OF 23 SHEETS		WBS -S-11064
APPROVED: <i>A. Palacios</i> FOR CITY ENGINEER ABI PALACIOS DATE: 11/26/13	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER	
DESCRIPTION	BY	APPROVED
ORIGINAL	VRPA	
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
270-1731 CCS27 COORDINATE 1910444-6292407 CCS83 COORDINATE		36647-22-D

E-2

HILLERY DRIVE IMPROVEMENTS

GENERAL NOTES:

1. PULLBOXES AND CONDUIT:
 - 1a. PULLBOXES ARE No. 5, UNLESS OTHERWISE NOTED ON THIS PLAN.
 - 1b. ALL CONDUIT DEPTH MUST BE A MINIMUM OF 18" BELOW THE PAVEMENT SURFACE OR 3" BELOW THE BOTTOM OF THE PAVEMENT, WHICHEVER IS GREATER.
 - 1c. CONDUIT SHALL BE 2" DIAMETER, UNLESS OTHERWISE NOTED IN THE CONDUCTOR TABLE OR SHOWN IN THIS PLAN.
2. LOCATIONS OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND VERIFY ALL CONDITIONS ON THE JOB SITE.
3. ALL POLE FOUNDATIONS SHALL HAVE A 2" CONDUIT INSTALLED TO AN ADJACENT No. 5 PULLBOX.
4. LOCATION, POSITIONING, AND INSTALLATION OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, TRAFFIC SIGNS, TRAFFIC STRIPING, PAVEMENT AND CURB MARKINGS:
 - 4a. THE CONTRACTOR WITH THE APPROVAL OF THE CITY RESIDENT ENGINEER, IS RESPONSIBLE FOR LOCATING, MARKING THE LAYOUT, AND INSTALLATION OF ALL ELECTRICAL AND LIGHTING EQUIPMENT.
 - 4b. THE CONTRACTOR, WITH THE APPROVAL OF THE CITY'S DESIGNATED TRAFFIC ENGINEER, IS RESPONSIBLE FOR LOCATING, MARKING THE LAYOUT, AND INSTALLATION OF ALL LIGHTING FIXTURES, TRAFFIC SIGNS, TRAFFIC STRIPING, PAVEMENT AND CURB MARKINGS.
 - 4c. THE CONTRACTOR SHALL OBTAIN THE APPROVALS FOR THE ITEMS NOTED IN 4a AND 4b PRIOR TO INSTALLATION.
 - 4d. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL CONFLICTING STRIPING AND PAVEMENT MARKINGS BY SANDBLASTING/GRINDING (METHOD TO BE DETERMINED BY THE CITY RESIDENT ENGINEER).
5. CONTRACTOR SHALL RESTORE DISTURBED AREAS DUE TO CONSTRUCTION, BY MATCHING EXISTING SURROUNDING CONDITIONS.
6. CONTRACTOR TO INSTALL COMPONENTS TO MANUFACTURER INSTRUCTIONS. WHERE CONFLICTS OCCUR BETWEEN THE INSTRUCTIONS AND THIS PLAN, THE CONTRACTOR SHALL BE DIRECTED BY THE RESIDENT ENGINEER.
7. THIS SHEET IS ACCURATE FOR ELECTRICAL WORK ONLY.

CONSTRUCTION NOTES

- 1 FURNISH AND INSTALL LIGHTED CROSSWALK SYSTEM CONTROLLER CABINET PER MANUFACTURER'S REQUIREMENTS. ASSEMBLY SHALL BE WIRED FOR FULL LIGHTED CROSSWALK SYSTEM FUNCTIONALITY. ELECTRICAL CABINET SHALL INCLUDE ALL NECESSARY MOUNTING HARDWARE. WIRE PPB AND FLASHING WARNING SIGNS TO NEW CONTROLLER.
- 2 INSTALL W16-7p SCHOOL CROSSWALK SIGN WARNING ASSEMBLY.
- 3 FURNISH AND INSTALL MUTCD APPROVED LED LIGHTED FLUORESCENT YELLOW GREEN S1-1 (L.E.D.) SIGN WITH BRACKETS. FURNISH AND INSTALL ALL NECESSARY ELECTRICAL COMPONENTS AND CONDUCTORS FOR PROPER OPERATION OF THE SIGN. PULL CONDUCTORS TO CONTROLLER AND LAND TO ASSIGNED TERMINALS. (SEE CONDUCTOR SCHEDULE)
- 4 FURNISH & INSTALL ALL NECESSARY ELECTRICAL COMPONENTS, CONDUIT, AND CONDUCTORS TO CONTROLLER AND SERVICE CABINET, WHICH WILL FULLY OPERATE THE LIGHTING SYSTEM. PULL CONDUCTORS AND LAND TO APPROPRIATE TERMINALS. COORDINATE NEW METER AND SERVICE ACTIVATION WITH SDG&E (SEMPRA UTILITIES).
- 5 FURNISH, TRENCH, AND INSTALL NEW ELECTRICAL CONDUIT WITH CONDUCTORS AS MARKED ON PLAN AND SHOWN IN CONDUCTOR TABLE.
- 6 FURNISH AND INSTALL "LANE LIGHT" OR APPROVED EQUIVILANT PAVEMENT LIGHTING FIXTURES AND CONDUCTORS ADJACENT TO THE CROSSWALK LINES AND OUTSIDE THE PEDESTRIAN CROSSING AREA, AS SHOWN. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS GUIDELINES/INSTRUCTIONS (UNLESS OTHERWISE DIRECTED BY THE CITY RESIDENT ENGINEER). LIGHT FIXTURES SHALL BE LOCATED SO AS TO AVOID TIRE TRACKING. LIGHTING FIXTURES SHALL BE SPACED 2 FEET FROM EACH CURB AND WITH A SPACING OF 8 FEET WITHIN THE TRAVELED WAY.
- 7 FURNISH AND INSTALL #5 PULL BOX PER CALTRANS STANDARD.
- 8 INTERCEPT EXISTING STREET LIGHT CONDUIT. INSTALL #3.5 PULL BOX AND SPLICE CONDUCTORS.
- 9 FURNISH AND INSTALL 2" CONDUIT WITH 2#10 CONDUCTOR.
- 10 FURNISH AND INSTALL #3.5 PULL BOX.

LEGEND

SYMBOL	DESCRIPTION
---	NEW ELECTRICAL CONDUIT WITH CONDUCTORS
	POLE WITH YELLOW LED LIGHTED SIGNS
	CONTROLLER CABINET
	ELECTRICAL PULLBOX / HAND HOLE
	EXISTING STREET LIGHT
	LED LIGHT FIXTURE
	SINGLE PHASE TRANSFORMER 25KVA

WARNING SIGNS



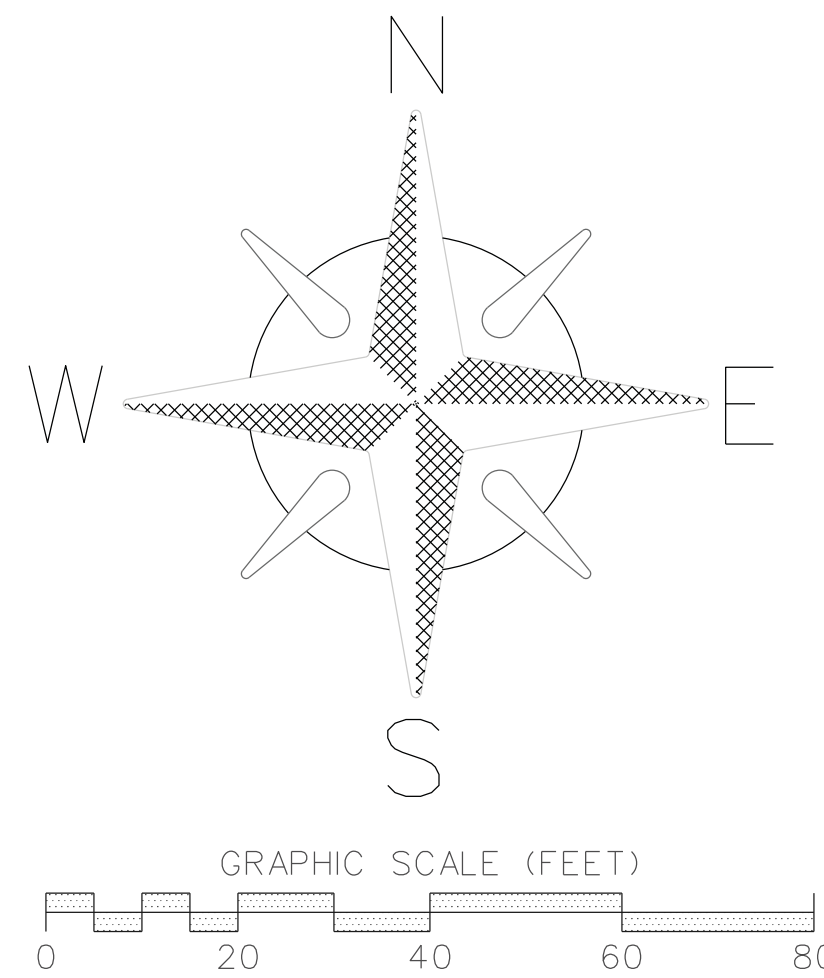
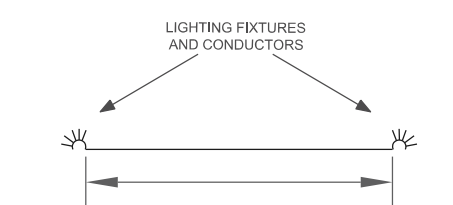
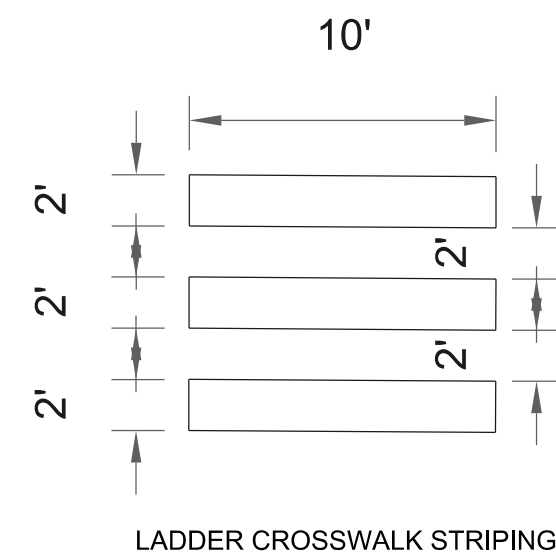
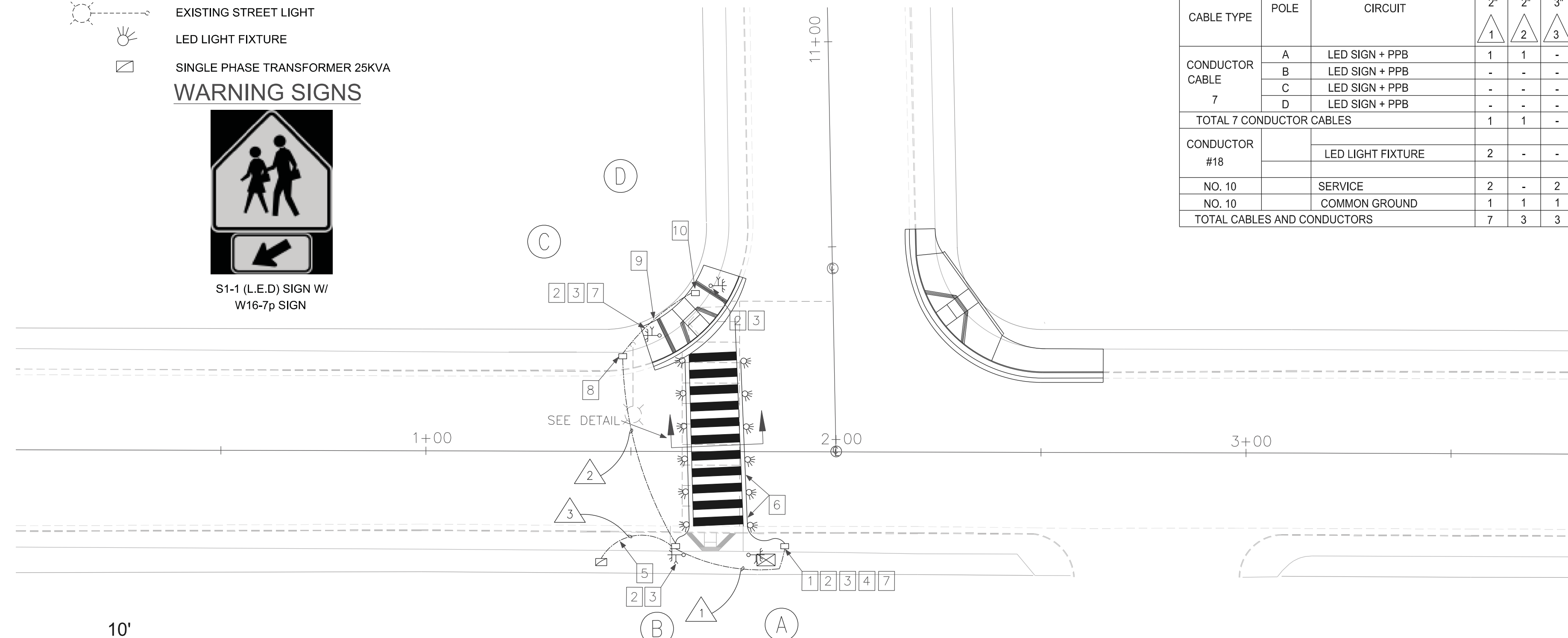
S1-1 (L.E.D.) SIGN W/ W16-7p SIGN

POLE SCHEDULE							
No.	STANDARD			LUMINAIRE INDUCTION	PLACEMENT		REMARKS
	TYPE	HGT.	SIG. MA		A	B	
(A)	TYPE I-A	12'	N/A	N/A	N/A	*	ADD LED SIGN, PUSH BUTTON AND CONTROLLER
(B)	TYPE I-A	12'	N/A	N/A	N/A	*	ADD LED SIGN AND PUSH BUTTON.
(C)	TYPE I-A	12'	N/A	N/A	N/A	*	ADD LED SIGN AND PUSH BUTTON.
(D)	TYPE I-A	12'	N/A	N/A	N/A	*	ADD LED SIGN AND PUSH BUTTON.

* TO BE LOCATED AND MARKED IN THE FIELD BY THE CITY RESIDENT ENGINEER. PEDESTRIAN PUSH BUTTONS (PPB) SHALL CONFORM TO ADA STANDARDS AND OPERATE WITH MANUFACTURERS COMPONENTS.

CONDUCTOR TABLE

AWG SIZE OR CABLE TYPE	POLE	CIRCUIT	CONDUIT SIZE & RUN			
			2" 1	2" 2	3" 3	
CONDUCTOR CABLE 7	A	LED SIGN + PPB	1	1	-	-
	B	LED SIGN + PPB	-	-	-	-
	C	LED SIGN + PPB	-	-	-	-
	D	LED SIGN + PPB	-	-	-	-
TOTAL 7 CONDUCTOR CABLES			1	1	-	-
CONDUCTOR #18		LED LIGHT FIXTURE	2	-	-	-
NO. 10		SERVICE	2	-	2	-
NO. 10		COMMON GROUND	1	1	1	-
TOTAL CABLES AND CONDUCTORS			7	3	3	-



CALL "811" TWO WORKING DAYS BEFORE YOU DIG!

E-3

PLANS FOR THE CONSTRUCTION OF HILLERY DRIVE IMPROVEMENTS LIGHTED CROSSWALK PLAN

CITY OF SAN DIEGO, CALIFORNIA
PUBLIC WORKS DEPARTMENT
SHEET 23 OF 23 SHEETS
WBS S-11064

APPROVED: <i>A. Palamuy</i> 11/26/13 FOR CITY ENGINEER ABI PALASEYED DATE	SUBMITTED BY: J. MANCHESTER PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: VRPA
DATE: 11/26/13	FILED: []
CONTRACTOR: [] DATE STARTED: []	
INSPECTOR: [] DATE COMPLETED: []	
PROJECT ENGINEER: B. OLSON	
270-1731	
CCS27 COORDINATE	
1910444-6292407	
CCS83 COORDINATE	
36647-23-D	

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

Erk Ruehr
PREPARED BY: ERK RUEHR
DATE: 9/12/2013
R.C.E. NO. 37129

WARNING

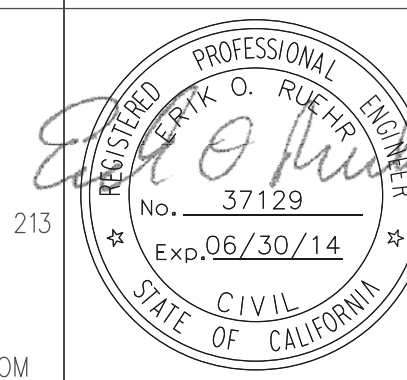
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

CITY OF SAN DIEGO PUBLIC WORKS PROJECT



Erk Ruehr
PREPARED BY: ERK RUEHR
REGISTRATION EXPIRES: 06-30-14
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HILLERY DRIVE IMPROVEMENTS