

City of San Diego

CONTRACTOR'S NAME: _____
ADDRESS: _____
TELEPHONE NO.: _____ FAX NO.: _____
CITY CONTACT: Clementina Giordano, Contract Specialist, Email: Cgiordano@san Diego.gov
Phone No. 619-533-3481, Fax No. 619-533-3633
L.Schultz/AR/egz

CONTRACT DOCUMENTS FOR



NORTH TORREY PINES ROADWAY & MEDIAN ENHANCEMENTS

VOLUME 1 OF 2

BID NO.: _____ K-14-5606-DBB-3
SAP NO. (WBS/IO/CC): _____ S-00868
CLIENT DEPARTMENT: _____ 2116
COUNCIL DISTRICT: _____ 1
PROJECT TYPE: _____ IK/IG

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE FEDERAL

BID DUE DATE:

**2:00 PM
OCTOBER 23, 2013
CITY OF SAN DIEGO
PUBLIC WORKS CONTRACTING GROUP
1010 SECOND AVENUE SUITE 1400, 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 Engineers and Registered Landscape Architect:


1) Registered Engineer

9/03/13
Date

Seal:

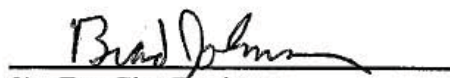



2) Registered Landscape Architect

08/27/2013
Date

Seal:




3) For City Engineer

8/30/13
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 **North Torrey Pines Roadway & Median Enhancements** (Project).
- 2. DESCRIPTION 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:

This project provides for median curb, gutter, steel-back timber guardrail, sidewalk, drainage and landscaping, from 600 feet north of Genesee Avenue to the State Reserve boundary including the Callan Road intersection.

2.1. The Work shall be performed in accordance with:

2.1.1. This Notice Inviting Bids and Plans numbered **36665-1-D** through **36665-41-D** and **36665-T1-D** through **36665-T17-D**, inclusive.

3. EQUAL OPPORTUNITY

3.1. To The WHITEBOOK, Chapter 10, Sections D and E, DELETE in their 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.

4. SUBCONTRACTING PARTICIPATION PERCENTAGES.

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	11.9%
2. ELBE participation	19.4%
3. Total mandatory participation	31.3%

4.2. The Bidders are strongly encouraged 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. Bidder's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; OR.

4.3.2. 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.

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, Suite 1400, San Diego, CA 92101 **at 10:00 AM, on OCTOBER 3, 2013.**

5.2. All potential bidders are encouraged to attend.

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 Prism®, the City’s web-based contract compliance portal at:

<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. **CONSTRUCTION COST:** The City’s estimated construction cost for this contract is **\$1,862,000.00**.

8. **LOCATION OF WORK:** The location of the Work is as follows:

North Torrey Pines Road from Genesee Avenue to border with Torrey Pines State Park.

9. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **90 Working Days**. The number of working days does not include the days specified under a moratorium in section 6-2.1.

10. **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.

10.1. The City has determined the following licensing classification(s) for this contract:

- CLASS A

11. **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.

12. **WAGE RATES:** Prevailing wage rates apply to this contract.

12.1. **STATE REQUIREMENTS FOR CONTRACTS SUBJECT TO STATE PREVAILING WAGE REQUIREMENTS.**

12.1.1. 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.

12.1.2. 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.

12.1.3. 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.

12.1.4. 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.

13. INSURANCE REQUIREMENTS:

13.1. 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.

13.2. 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.

14. PREQUALIFICATION OF CONTRACTORS:

14.1. 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>

14.2. 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, Suite 1400, 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.

15. **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		

16. **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.
17. **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.
18. **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.
19. **SUBMITTAL OF “OR EQUAL” ITEMS:** See Section 4-1.6, “Trade Names or Equals” in The WHITEBOOK and as amended in the SSP.
20. **AWARD PROCESS:**
- 20.1. The Award of this contract is contingent upon the Contractor’s compliance with all conditions precedent to Award.

- 20.2. 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.
- 20.3. This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.
21. **SUBCONTRACT LIMITATIONS:** The Bidder's attention is directed to Standard Specifications for Public Works Construction, Section 2-3, "SUBCONTRACTS" in The WHITEBOOK 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.
22. **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.
23. **QUESTIONS:**
- 23.1. 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 procurement action shall be addressed to the Public Works Contracting Group, Attention Contract Specialist, 1010 Second Avenue, Suite 1400, San Diego, California, 92101, and Telephone No. (619) 533-3450.
- 23.2. Questions received less than 14 days prior to the date for opening of Bids may not be answered.
- 23.3. Interpretations or clarifications considered necessary by the City in response to such questions will be issued by Addenda which will be uploaded to the City's online bidding service.
- 23.4. 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.
24. **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.
25. **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.

26. 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.

26.1. 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.

26.2. The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.

26.3. 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.

26.4. Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.

27. BIDDERS' GUARANTEE OF GOOD FAITH (BID SECURITY):

27.1. 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.

27.2. 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.

27.3. A Bid received without the specified bid security will be rejected as being **non-responsive**.

28. AWARD OF CONTRACT OR REJECTION OF BIDS:

28.1. This contract may be awarded to the lowest responsible and reliable Bidder.

28.2. 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.

- 28.3.** 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.
- 28.4.** 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.
- 28.5.** 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-responsible in accordance with San Diego Municipal Code Chapter 2, § 22.3029, “Protests of Contract Award.”
- 28.6.** 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.
- 28.7.** 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.
- 28.8.** 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.

29. BID RESULTS:

- 29.1** 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.
- 29.2.** 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.

30. THE CONTRACT:

- 30.1.** 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.
- 30.2.** 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.

- 30.3.** 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.
- 30.4.** 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.
- 30.5.** 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.
- 31. 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.
- 32. CITY STANDARD PROVISIONS.** This contract is subject to the following standard provisions. See The WHITEBOOK for details.

 - 32.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
 - 32.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
 - 32.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
 - 32.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
 - 32.5.** 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.

32.6. The City’s Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).

32.7. The City’s Information Security Policy (ISP) as defined in the City’s Administrative Regulation 90.63.

33. PRE-AWARD ACTIVITIES:

33.1. 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**.

33.2. 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.

34. REQUIRED DOCUMENT SCHEDULE:

34.1. 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.

34.2. 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

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
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
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 AGREEMENT

CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, a municipal corporation, herein called "City", and Palm Engineering Construction, Co., Inc., herein called "Contractor" for construction of North Torrey Pines Roadway & Median Enhancements; Bid No. K-14-5606-DBB-3; in the amount of One Million Nine Hundred Seventy-Eight Thousand One Hundred Twenty Dollars and 00/100 (\$1,978,120.00), which is comprised of the Base Bid 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 North Torrey Pines Roadway & Median Enhancements, on file in the office of the Public Works Department as Document No. S-00868, 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 North Torrey Pines Roadway & Median Enhancements, Bid Number K-14-5606-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.

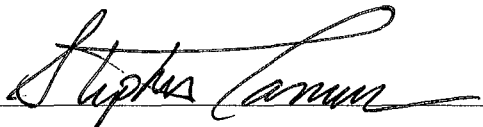
CONTRACT FORMS (continued)

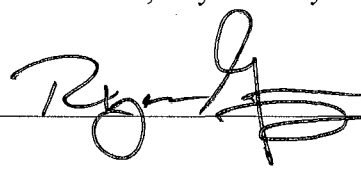
AGREEMENT

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

By 

Jan I. Goldsmith, City Attorney
By 


Print Name: _____
Stephen Samara, Senior Contract Specialist

Print Name: RYAN P. GERRITY
Deputy City Attorney

Date: 2/5/2014

Date: 2/4/2014

CONTRACTOR

By 

Print Name: Rasoul Shahbazi

Title: President

Date: 12/10/13

City of San Diego License No.: B2004010181

State Contractor's License No.: 853930

EXECUTED IN TRIPLICATE

BOND NO. 5170564

PREMIUM: \$23,281.00

PREMIUM IS FOR CONTRACT TERM
AND IS SUBJECT TO ADJUSTMENT
BASED ON FINAL CONTRACT PRICE

CONTRACT ATTACHMENT
PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

COMPANY,
Palm Engineering Construction, Inc., a corporation, as principal, and
SURETEC 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 Nine Hundred Seventy-Eight Thousand One Hundred Twenty Dollars and 00/100
(\$1,978,120.00), for the faithful performance of the annexed contract, and in the sum of One Million
Nine Hundred Seventy-Eight Thousand One Hundred Twenty Dollars and 00/100
(\$1,978,120.00), for the benefit of laborers and materialmen designated below.

Conditions:

If the Principal shall faithfully perform the annexed contract North Torrey Pines Roadway
& Median Enhancements, Bid Number K-14-5606-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 ATTACHMENT (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.

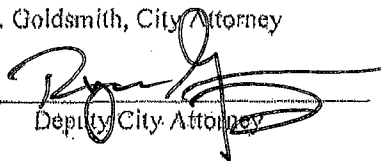
Dated DECEMBER 5, 2013

Approved as to Form and Legality


PALM ENGINEERING
CONSTRUCTION COMPANY, INC.
Principal

By 

RASOUL SHAHBAZI, PRESIDENT
Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney
By 
Deputy City Attorney

SURETEC INSURANCE COMPANY
Surety

By 
Attorney-in-fact
JOHN B. MALONEY, ATTORNEY-IN-FACT

3033 FIFTH AVENUE, SUITE 300
Local Address of Surety

Approved:

By Stephen Samara, Senior Contract Specialist

SAN DIEGO, CA 92103
Local Address (City, State) of Surety

619/400-4100
Local Telephone No. of Surety

PREMIUM IS FOR CONTRACT TERM
AND IS SUBJECT TO ADJUSTMENT
BASED ON FINAL CONTRACT PRICE

Premium \$ 23,281.00

Bond No. 5170564

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

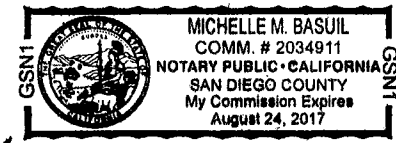
STATE OF CALIFORNIA

County of SAN DIEGO }

On 12/5/2013 before me, MICHELLE M. BASUIL, NOTARY PUBLIC
Date Here Insert Name and Title of the Officer

personally appeared JOHN G. MALONEY
Name(s) of Signer(s)

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.



Place Notary Seal Above

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.

Signature Michelle M. Basuil
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND

Document Date: 12/5/2013 Number of Pages: 2

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: JOHN G. MALONEY

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

Signer Is Representing: _____

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____

RIGHT THUMBPRINT OF SIGNER

Top of thumb here

Signer Is Representing: _____

SureTec Insurance Company

LIMITED POWER OF ATTORNEY

Know All Men by These Presents, That SURETEC INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

Michelle M. Basuil, Glenda J. Gardner, Helen Maloney, Mark D. Iatarola, John G. Maloney

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include waivers to the conditions of contracts and consents of surety for:

Five Million and 00/100 Dollars (\$5,000,000.00)

and to bind the Company thereby as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney-in-Fact may do in the premises. Said appointment shall continue in force until 10/31/2015 and is made under and by authority of the following resolutions of the Board of Directors of the SureTec Insurance Company:

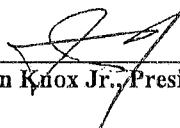
Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

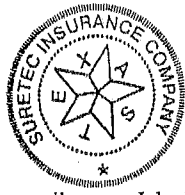
Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. (Adopted at a meeting held on 20th of April, 1999.)

In Witness Whereof, SURETEC INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 21st day of March, A.D. 2013.

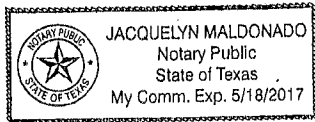
SURETEC INSURANCE COMPANY


By: 
John Knox Jr., President



State of Texas ss:
County of Harris

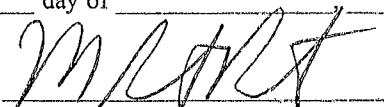
On this 21st day of March, A.D. 2013 before me personally came John Knox Jr., to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of SURETEC INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.




Jacquelyn Maldonado, Notary Public
My commission expires May 18, 2017

I, M. Brent Beaty, Assistant Secretary of SURETEC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; and furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

Given under my hand and the seal of said Company at Houston, Texas this 5TH day of DECEMBER 2013, A.D.


M. Brent Beaty, Assistant Secretary

Any instrument issued in excess of the penalty stated above is totally void and without any validity.
For verification of the authority of this power you may call (713) 812-0800 any business day between 8:00 am and 5:00 pm CST.

State of California)
County of San Diego)

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

On December 6, 2013 before me, Margarita Amine, Notary Public
(here insert name and title of the officer)

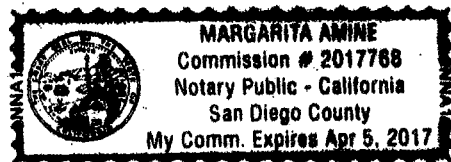
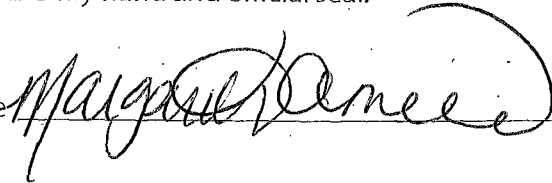
personally appeared Rasoul Shahbazi

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.

Signature



(Seal)

OPTIONAL INFORMATION

Although the information in this section is not required by law, it could prevent fraudulent removal and reattachment of this acknowledgment to an unauthorized document and may prove useful to persons relying on the attached document.

Description of Attached Document

The preceding Certificate of Acknowledgment is attached to a document titled/for the purpose of _____

containing _____ pages, and dated _____

The signer(s) capacity or authority is/are as:

- Individual(s)
 Attorney-in-Fact
 Corporate Officer(s) _____
Title(s) _____

- Guardian/Conservator
 Partner - Limited/General
 Trustee(s)
 Other: _____

representing: _____
Name(s) of Person(s) or Entity(ies) Signer is Representing

Additional Information

Method of Signer Identification

Proved to me on the basis of satisfactory evidence:
 form(s) of identification credible witness(es)

Notarial event is detailed in notary journal on:
Page # _____ Entry # _____

Notary contact: _____

Other

Additional Signer(s) Signer(s) Thumbprint(s)

CONTRACTOR CERTIFICATION

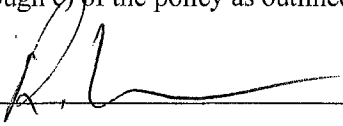
DRUG-FREE WORKPLACE

PROJECT TITLE: North Torrey Pines Roadway & Median Enhancements

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;

Palm Engineering Construction Co., 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 

Printed Name RASOUL SHABBAZI

Title President

CONTRACTOR CERTIFICATION

AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

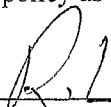
PROJECT TITLE: North Torrey Pines Roadway & Median Enhancements

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;

Palm Engineering Construction Co, Inc.
(Name under which business is conducted)

has in place a 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



Printed Name

Rasoul Shahbazi

Title

President

CONTRACTOR CERTIFICATION

CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

PROJECT TITLE: North Torrey Pines Roadway & Median Enhancements

I declare under penalty of perjury that I am authorized to make this certification on behalf of Palm Engineering Construction Co., Inc., as Contractor, that I am familiar with the requirements of City of San Diego Municipal Code § 22.3224 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than \$50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3224.

Dated this 6 Day of December, 2013.

Signed 

Printed Name Rasoul Shahbazi

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:

North Torrey Pines Roadway & Median Enhancements

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-14-5606-DBB-3**; SAP No. (WBS/IO/CC) **S-00868**; 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 _____, _____, 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:

North Torrey Pines Roadway & Median Enhancements

(Name of Project)

as particularly described in said contract and identified as Bid No. **K-14-5606-DBB-3**; SAP No. (WBS/IO/CC) **S-00868**; 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:

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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 _____, _____, 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 _____

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
Public Works Department, Field Division**

NOTICE OF MATERIALS TO BE USED

To: _____
Resident Engineer

Date: _____, ____

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: _____

SUPPLEMENTARY SPECIAL PROVISIONS (SSP)

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.

Overnight work is permitted between 8:00 PM to 5:00 AM for work indicated on the plans.

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.

2-5.4.1 Red-lines and Record Documents.

2-5.4.2 Asset Specific Redlines. To the City Supplement, ADD the following:

1. All valves shall be numbered by station and corresponding numbers shall be shown on the record drawings. Contractor shall provide Resident Engineer with a wiring diagram of each power circuit and control panel that corresponds to each irrigation controller supplied.

All main lines, lateral lines, sleeves, flow sensors, master control valves, remote control valves, shut-off valves, quick coupling valves, and controllers shall be located by measured dimensions, to the nearest one-half foot. Dimensions shall be given from permanent objects such as sidewalks, curbs, walls, structures and driveways.

2-15 TECHNICAL STUDIES AND DATA. To the City Supplement, ADD the following:

1. In preparation of the Contract Documents, the designer has relied upon the following studies, data, reports of explorations, and tests:

1. Water Quality Technical Report dated June 2011 by Tran Consulting Engineers.
2. Drainage Study For N. Torrey Pines Road Improvements dated April 2010 by Tran Consulting Engineers.
2. The reports listed above are available for review by contacting the City Contract Specialist or visiting:

<ftp://ftp.sannet.gov/OUT/ECP/2-16%20TECHNICAL%20STUDIES%20AND%20DATA>

SECTION 4 - CONTROL OF MATERIALS

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 later than 5 Working Days after the determination of the Apparent Low Bidder** and on a City form when provided by the City.

SECTION 6 - PROSECUTION, PROGRESS AND ACCEPTANCE OF WORK

6-2.1 Moratoriums. To the City Supplement, ADD the following:

Do not work in the areas where there is currently a moratorium issued by the City. The areas subject to moratorium is listed here:

- a) January 20, 2014 to January 27, 2014 on North Torrey Pines Rd for the entire project limits. Contractor shall begin construction activities on North Torrey Pines Rd between Torrey Pines Science Park South to Science Park Rd on or after January 28, 2014.

6-8.3 Warranty. To the City Supplement, ADD the following:

All other plant material, including ground covers, shall be guaranteed to live and grow for a period of ninety (90) days from the date final acceptance of contract work unless decline of plant is specifically attributable to causes unrelated to installation, plant material quality and Contractor’s maintenance practices.

Any material found to be dead, missing or in poor condition during the warranty period, shall be replaced immediately. The Resident Engineer shall be the sole judge as to the condition of the material. Material found to be dead or in poor condition within the guarantee period shall be replaced by the Contractor, at his expense, within fifteen (15) days of written notification. Replacement shall be made to the same specifications required for the original plantings.

Should the Contractor fail, during the guarantee period, to expeditiously correct a defect upon written notification by the Resident Engineer, the Resident Engineer shall cause the work to be corrected and bill the actual costs incurred to the Contractor. Defect corrections shall include the complete restoration of existing improvements that were damaged as a result of the defect.

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 SWPPP.

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.”

SECTION 204 – LUMBER AND TREATMENT WITH PRESERVATIVES

204-1 LUMBER AND PLYWOOD.

ADD:

204-1.4 Timber Guardrail. Steel-backed timber guardrail shall be Type A, blocked-out.

Timber shall conform to AASHTO M 168. Fabrication of the timber rail, blockouts, and posts, shall be from dry, well seasoned, and dressed rough sawn Douglas fir, southern pine, or other species having a stress grade of at least 14.5 ksi. Timber rail, blockouts and posts, shall be treated with CCA, ACZA, or ACA preservative treatment conforming to AWWA C14, except the minimum retention shall be 0.6 lb per cubic feet.

Steel backing elements shall be fabricated from 0.4 inch structural steel conforming to AASHTO M 222. Hole diameters or slot dimensions in rail elements shall not be modified. Field holes may be drilled and steel splice plates may be field cut at joints only on curved sections or where required to correspond to the field cut wood rails at joints. Torches shall not be used to cut holes, slots, plates or rails. Fastener hardware shall conform to AASHTO M 222.

Material used for Steel-backed timber guardrail shall be Cor-tenn or approved equal.

204-2.1 General. ADD the following:

Preservative treated timber shall be Douglas fir or Hem fir.

ADD:

204-2.6 Treated Timber. Do not remove bolts and hardware using flame-type or air-arc cutting equipment. For lumber treated with ammoniacal copper arsenate, ammoniacal copper zinc arsenate, ammoniacal copper quat, or copper azole:

1. Fill bolt holes with grease before inserting bolts
2. Use nylon spacers, polyethylene tape, or other authorized corrosion-resistant barrier on surfaces of hardware that will be in contact with treated wood

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

SECTION 212 - LANDSCAPE AND IRRIGATION MATERIALS

212-1.2.3 Commercial Fertilizer. ADD the following:

Pre-plant fertilizer shall be granular commercial fertilizer 12-12-12 or approved equivalent.

Post-plant fertilizer shall be 14-7-3 or approved equivalent with CA, FE, ZN, and MN and with the majority of nitrogen in non-ammoniac form to prevent acidification of soil.

212-1.2.4 Organic Soil Amendment. ADD the following:

The Contractor shall provide a 2 cu. ft. sample of the proposed amendment accompanied by Laboratory Analytical Analysis from an approved laboratory illustrating degree of compliance. Guarantee - wt./cu./yd. - 560#-820#. Nitrogen (organic or ammoniac) 0.5% ph (less than) 6.5. Salinity (ec x 10 at 25 c) = 2.5. Iron (fe) expressed as metallic 0.01%. Density - approximately 25 lb.cu.ft. Organic matter - 85%. A non-ionic wetting agent should be used. Properties: screen analysis: % retained on stacked screens - 1 mesh = 0.2%, 5 mesh = 36.6%, 8 mesh = 25.7%, 12 mesh = 30.7%, 32 mesh = 5.9%; remainder = 0.9%. (Shall be approved equal to Wil Gro Life, A-1 Soils "Life Like", Loamex), or "Numex" by John Deere or approved equal.

Type 4 organic soil amendment (hydromulch soil amendment) shall be 'Sarvon' liquid soil conditioner by Hydroscape, or approved equivalent.

Type 5 organic soil amendment (Mycorrhizal Inoculum). Provide an organic Arbuscular Mycorrhizal Inoculum containing one or more species of mycorrhizae fungi at a minimum rate of 120 propagules per cubic centimeter. Acceptable Mycorrhizal Inoculum Product: "AM120" by Reforestation Technologies International, or approved equal.

212-1.2.5 Mulch. ADD the following:

Average dimensions shall be 3" to 6" in length and 2" in thickness. Submit two (2) samples for approval by the Resident Engineer prior to installation.

212-1.2.6 Inorganic Soil Amendments. ADD the following:

Soil sulfur. Soil sulfur shall be 99.5% elemental. Sizing on stacked screen shall be approximately: 8 mesh 4.3%; 20 mesh 7.8%; 50 mesh 46.9%; 100 mesh 39.3%; 200 mesh 1.7%.

ADD:

212-1.2.7 Herbicides and Pesticides. Herbicides and pesticides shall be used in their appropriate applications with strict adherence to manufacturers' specifications and instructions.

The Contractor shall obtain approval for any and all pesticide and herbicide use in writing from the Resident Engineer. All pesticides and herbicides shall be used in strict adherence to manufacturers' specifications and instructions, and shall be applied only by a licensed applicator.

Pre-emergent herbicide for shrub and groundcover areas (planted from flats) shall be Treflan, Surflan, Eptan, or approved equivalent.

Post-emergent herbicide for all areas shall be Round Up, Diquat, Montar, or approved equivalent, except for areas where it may contact standing or running water.

All herbicides shall be selected for suitability for the specific uses required, and shall be applied by a licensed pesticide applicator.

212-1.4 Plants.

212-1.4.1 General. DELETE in its entirety and SUBSTITUTE with the following:

Contractor shall notify the Resident Engineer a minimum of 48 hours before each plant delivery so the Resident Engineer can schedule a review.

Availability: Within 2 weeks of the start of work, the Contractor shall place orders for all plant material in sufficient time to reserve or grow the plants for the project. No substitutions will be allowed. If plants are not available, the Contractor shall have the specified species contract grown by a reputable native plant nursery such as Las Pilitas, Tree of Life, Recon, or approved equal. Provide nursery name and resume for review and approval prior to contract growing.

Quality and Size: Plants shall be in accordance with the California State Department of Agriculture Regulations for Nursery Inspections of Rules and Grading. Nursery tags must be submitted to the Resident Engineer. Sizes shall conform to the dimensions indicated on the planting plan. All plants shall be reviewed and approved for acceptable size and quality by Resident Engineer prior to planting.

Immediately upon award of contract for work in this section, locate and purchase or hold for purchase all trees required. Color photos of all trees shall be submitted to Resident Engineer for approval a minimum of 15 days prior to delivery of the plants to the site. The Resident Engineer reserves the right to reject any plant species upon conducting a physical inspection after delivery to the site.

Quantities: Quantities of all plant materials shall be furnished as needed to complete work as shown on the Drawings.

Inspection of plant materials required by City, County or State authorities shall be the responsibility of the Contractor, and where necessary, permits or certificates shall have been secured prior to delivery of plans to site.

The Resident Engineer is the sole judge as to acceptability of each plant. Vigorous, healthy, well proportioned plants are the intent of this specification. Plants which are even moderately "overgrown," or are showing signs of decline or lack of vigor are subject to rejection. The size of the plants will correspond with that normally expected for species and variety of commercially available nursery stock, or as specified in the special conditions or drawings. Plants larger in size than specified may be used with the approval of the Resident Engineer, but the use of larger plants will make no change in contract price. If the use of larger plants is approved, the ball of earth and spread of roots for each plant shall be increased proportionately.

Rejection or Substitution:

The Resident Engineer reserves the right to reject any plant material found to be defective or not in conformance with plans and specifications. Plants shall be subject to inspection and approval or rejection at the project site at any time before or during progress of work, for size, variety, condition, latent defects, and injuries. All plants not conforming to the requirements herein specified shall be considered defective, and such plants, whether in place or not, shall be marked as rejected and immediately removed from the site and replaced with new plants by the Contractor at his expense. Rejected plant material shall be replaced within one week of written notice, unless otherwise approved by the Resident Engineer.

Substitutions will not be permitted except if proof is submitted that any plant specified is not obtainable, then a proposal will be considered for use of the nearest equivalent size or variety and cost. All substitutions are subject to Resident Engineer's written approval.

Right To Changes:

The Resident Engineer reserves the right to change the species, variety, and/or sizes of plant material to be furnished, provided that the cost of such plant changes do not exceed the cost of plants in the original bid, and with the provision that the Contractor shall be notified, in writing, at least thirty (30) days before the planting operation has commenced.

212-1.4.2 Trees. ADD the following:

All trees shall be of the specified type and size as indicated on the Drawings, selected from high quality, well-shaped and proportioned Southern California-grown nursery container stock. Field grown stock grown in climatic regions which are different (as determined by the Resident Engineer) to those conditions found at the project site, shall have been acclimated to a climate similar to their intended locations prior to delivery and shall be accompanied by letter and/or certificate from the nursery that the plant materials are suitable for said locations or they will not be accepted.

All trees shall have grown in containers for sufficient time to permit full rooting within the container to bind the soil but not so long as to create a rootbound condition. No container plants that have cracked or broken balls of earth, when taken from the container, shall be planted. No plants with damaged roots, broken root balls, or root bound, when taken from the container shall be planted.

All trees shall have a main leader branch and not have a co-dominant branching structure, unless the tree is intended to be multi-trunk.

All trees shall be free of weeds, native grasses, Bermuda grass, and Kikuyu grass.

212-1.4.3 Shrubs. ADD the following:

All shrubs shall be of the specified type and size as indicated on the Drawings, selected from high quality, well-shaped and proportioned Southern California-grown nursery container stock. Field grown stock grown in climatic regions which are different (as determined by the Resident Engineer) to those conditions found at the project site, shall have been acclimated to a climate similar to their intended locations prior to delivery and shall be accompanied by letter and/or certificate from the nursery that the plant materials are suitable for said locations or they will not be accepted.

All shrubs shall have grown in containers for sufficient time to permit full rooting within the container to bind the soil but not so long as to create a rootbound condition. No container plants that have cracked or broken balls of earth, when taken from the container, shall be planted. No plants with damaged roots, broken root balls, or root bound, when taken from the container shall be planted.

All shrubs shall be free of weeds, native grasses, Bermuda grass, and Kikuyu grass.

All shrubs shall be full and bushy to ground.

212-1.4.4 Flatted Plants. DELETE in its entirety and SUBSTITUTE the following:

All groundcover plants shall be healthy, vigorous, rooted cuttings grown in flat or 1 gallon cans until transplanting. See plant material legend on Drawings.

The soil and spacing of the plants in the container shall ensure the minimum disturbance of the root system at time of transplanting.

212-1.5.3 Tree Stakes. First paragraph, second sentence, DELETE in its entirety and SUBSTITUTE the following:

Tree stakes shall be two (2) inch diameter lodge pole pine of lengths required, pointed on end, and minimum 10' in length.

ADD:

212-1.5.4 Tree Ties. Tree ties shall be commercially manufactured of virgin flexible vinyl meeting ASTM-D-412 standards for tensile and elongation strength. Material shall be manufactured with a double back locking configuration and secured with one galvanized nail to prevent slippage. Material shall be ultraviolet resistant. Minimum length shall be twenty (20) inches. Tree ties shall be "Cinch-Tie" by V.I.T., or approved equivalent.

ADD:

212-1.10 Perforated Pipe. Perforated pipe for tree drain: Poly vinyl chloride SDR35 perforated pipe. Perforated pipe shall meet ASTM F-758 and AASHTO M-219. Pipe shall be supplied with a spun bonded filter sleeve to protect pipe from soil intrusion.

212-2 IRRIGATION SYSTEM MATERIALS.

212-2.1 Pipe And Fittings.

212-2.1.1 General. ADD the following:

All irrigation system materials shall be color-coded purple per AWWA Guidelines and Section 116815 of the California Health and Safety Code.

All recycled irrigation pipes shall be stenciled with the warning, "NON-POTABLE OR RECYCLED WATER", color-coded (purple) and laid with warning tape and stenciling oriented toward the top of the trench.

212-2.1.5 Copper Pipe. DELETE in its entirety and SUBSTITUTE the following:

Copper pipe shall be Type “L” in accordance with ASTM B 88; brass pipe; brass piping shall be I.P.S. red brass; solder: 50/50 lead and tin.

Type "K" copper pipe, in accordance with ASTM B 88, shall be used to extend the existing water main at the meter, to the new reduced pressure principle backflow assembly.

212-2.2 Valves and Valve Boxes.

212-2.2.4 Remote Control Valves. DELETE in its entirety and SUBSTITUTE the following:

Remote control valves shall be operated electrically. Unless otherwise specified, they shall be brass or bronze, with accurately machined valve seat surfaces, equipped with flow control adjustment and capability for manual operation. They shall be readily disassembled for servicing.

All recycled water control valves shall be tagged with identification tags. Tags shall be weatherproof plastic (3”x4”), purple in color with the words “WARNING RECYCLED WATER – DO NOT DRINK” imprinted on one side and “AVISO – AQUA IMPURA – NO TOMAR” on the other side. Imprinting shall be permanent and black in color.

212-2.2.6 Quick Coupling Valves and Assemblies. ADD the following:

Quick coupling valves shall be of a type designed for the use with recycled water systems with locking purple caps.

212-2.2.7 Valve Boxes. ADD the following:

All remote control valve boxes and pull boxes shall be rectangular, precast portland cement concrete with a cast iron locking lid, Christy #B3-3 with B3TL, or approved equivalent.

The Contractor shall rework the locking toggles of the concrete valve boxes by replacing the existing clevis pin and sheet metal clip with a cadmium-plated machine bolt and self-locking nut. Apply oil to lubricate and to prevent rust.

The Contractor shall paint the identification number of the valve and the controller clock on the cover of the valve box. Valve box covers shall be purple.

Valve boxes shall be sized accordingly to allow wires in pull boxes to be loose and maintain a three inch (3") clearance from the lid.

The Controller and Station number of each valve shall be identified with a plastic valve number label attached to the solenoid wire for each valve.

212-2.4 Sprinkler Equipment. DELETE in its entirety and SUBSTITUTE the following:

Sprinkler heads, bubbler heads, and spray nozzles shall be of the types and sizes shown on the Plans. Equipment of one type and flow characteristic shall be from the same manufacturer and all equipment shall bear the manufacturer’s name and identification code in a position where they can be identified in the installed position. All sprinkler heads shall be purple for use with reclaimed water.

Fixed head sprinklers shall have a one-piece housing with provision for interior parts replacement. Pop-up sprinklers shall rise at least 25 mm (1 in.) during operation.

Fixed heads, shrubbery heads and bubbler heads shall have adjustable radius control.

All materials and equipment used in all irrigation work shall be new and without flaws or defects and of quality and performance as specified. Prior to installation of any irrigation work, the Contractor shall submit, for approval to the Resident Engineer, five copies, minimum, of a list of all materials and equipment (s)he proposes to use. Should the Contractor propose to use materials or equipment other than those listed as approved, the Contractor shall submit in writing to the Resident Engineer a request to deviate from the approved list. Samples of the materials or equipment shall accompany the request to assist the evaluation of the proposal.

Anti-drain valves shall be installed as indicated on plans. The anti-drain valve shall be the same diameter size as the riser and shall be integrated into the riser assembly (under at head). Valve shall be "Valcon ADV-XS", Hunter, or an approved equivalent.

212-3 ELECTRICAL MATERIALS.

212-3.2 Conduit and Conductors.

212-3.2.2 Conductors. ADD the following:

Pilot Wires:

(#14 AWG) or larger as recommended by controller manufacturer for the corresponding run distance.

For controllers with more than 18 valves, the sequence shall be repeated.

In multiple controller installations, enclosures shall be sized accordingly. No 110 volt wire runs shall pass from controller cabinet to cabinet. Each controller shall have a separate electrical service through a raceway. Provide one power off-on switch for each controller.

212-3.2.2.1 Wire Connections. ADD the following:

Neutral, pilot, and spare wires shall be installed with a two (2) foot excess coiled wire length at each end enclosure. Each and every wire splice shall be soldered (using 60-40 solder) together, then encased in the waterproofed epoxy of the "Scotch-Pac" or "Pen-tite" connectors shown on Standard Drawing SDI-115. Wire splices shall be made only in valve or pull boxes

ADD:

212-4 GENERAL ELECTRICAL REQUIREMENTS.

212-4.1 Description. All electrical work shall be in conformance with the plans, and State, Federal and Local Electric Codes and City of San Diego Requirements. Work includes, but is not necessarily limited to, providing site power systems as follows:

1. Complete electrical secondary conduit systems, including all pull and all meter pedestals, splice boxes, pads, and other associated components.
2. All conduit and feeder conductors for site work components.
3. All required trenching, soil removal/replacement, compaction and turf repairs, to current City standards.
4. Payment of all permit fees, utility company installation charges, SDG&E service orders, engineering fees, relocation costs, and related charges, as applicable.

212-4.3 Accuracy of Data. The electrical drawings are diagrammatic, but shall be followed as closely as actual construction and work in other sections will permit. All deviations from drawings required to conform to site conditions and to the work of others, shall be made as directed by the Resident Engineer.

212-4.4 Quality Assurance.

1. Manufacturer shall have produced the specified products for a period of 2 years prior to beginning work of this section, and shall have the capability to produce the specified products to the delivery and quantity criteria of the project.
2. STAFF - For fabrication and installation of work, use only personnel who are thoroughly trained and experienced in the skills required, have installed similar applications of the specified products within one year prior to beginning work of this section, and who are completely familiar with the manufacturers' recommended methods of installation as well as the requirements of this work.

212-4.5 Product Handling.

1. **Protection** - Use all means necessary to protect the materials of this section before, during, and after installation and to protect the work and materials, of all other trades.
2. **Replacements** - In the event of damage, immediately make all repairs and replacements necessary to the approval of the Engineer and at no additional cost to the City.

212-4.6 Covering of Unreviewed Work. No work shall be covered, or enclosed, without review, testing, and/or approval by the Engineer. Work enclosed or covered prior to review and test shall be uncovered at Contractor's expense. After review, retest for approval and repair with material necessary to restore to original and proper condition.

ADD:

212-5 ELECTRICAL COMPONENTS.

212-5.1 Conduit.

1. **Rigid Non-metallic Conduit** - Heavy-wall rigid non-metallic conduit, where permitted, shall be Carlon or equal, PVC Schedule 40 manufactured in accordance with NEMA TC-2, UL-651 and WC 1094A specifications.

2. Conduit shall be delivered to site in standard lengths with each length bearing the manufacturer's trademark or stamp and U.L. Labeled.
3. Conduit shall be minimum 3/4 inch or larger in diameter.
4. All conduits shall contain equipment grounding conductors.

212-5.2 Wire/Conductors.

1. All wire and cable shall be rated for 600 volt, be color-coded, shall bear the Underwriters' Label, and shall be brought to the job in unbroken packages.
2. Wire coding shall be in accordance with the provisions of Section 210-5 of the latest edition of the National Electric Code.
3. All conductors unless noted otherwise shall be copper, No. 12 AWG minimum size. All conductors shall be stranded. Insulation type, unless otherwise noted, shall be as follows:
4. Feeder conductors: Type THW, 75 Degrees C.
5. Fixture and branch circuit conductors: Type THHN/THWN: XHHW or RHH - minimum 90 degrees C, unless otherwise noted.
6. Acceptable Manufacturers: General Wire and Cable Corp., Okonite Wire and Cable Corporation or approved equal.
7. All branch circuit conductors shall be labeled with circuit numbers.
8. One neutral conductor for each phase conductor pulled.
9. For wire #10 AWG and smaller provide Buchanan connectors or approved equal. For wire #8 AWG and larger provide T&B "Lock-Tite" connectors or approved equal.
10. All connections shall be taped with rubber tape 1-1/2 times the thickness of the conductor insulation, then covered with Scotch #33 tape, or approved equal.
11. Splices in underground distribution systems shall be made only in accessible locations such as handholes, with a compression connector on the conductor and by insulating and waterproofing by the following methods suitable for continuous submersion in water. Provide cast-type splice insulation by means of molded casting process employing a thermosetting epoxy resin insulating material applied by a gravity-poured method or by a pressure-injected method. Provide component materials of the resin insulation in a packaged form ready for convenient mixing without removing from the package. Do not allow the cables to be moved until after the splicing material has completely set.

212-5.3 Pull/Splice Boxes (Below Grade). All pull boxes shall be sized and constructed per serving utility requirements, using precast ring design for box. Provide cover lid as required for pedestrian or vehicular traffic condition, with bolted connections, and labeled with name of serving utility. All boxes shall be located 1" above grade in landscape areas and flush with pavement in paved or traffic areas.

212-5.4 Other Materials - All other required materials shall be new, of highest quality for applicable use.

SECTION 300 – EARTHWORK

300-1.1 General. ADD the following:

It is the contractor's responsibility to inspect the project site to verify the extent and cost of all clearing and grubbing prior to submitting the bid for this work.

Clearing and grubbing shall also include saw cutting, removal, and disposal of pavement (Asphalt Concrete, Base, and Unclassified Material), dike, curb and gutter, sidewalk, guardrail, guardrail posts, concrete anchors, steel foundation tubes, cable anchor assemblies, terminal anchor assemblies, repair of any traffic loops that may be damaged, and all other improvements that are shown on the plans for removal, directed by the resident engineer to remove, or otherwise required to perform the work.

All safety measures shall be taken by the contractor to protect pedestrians and vehicular traffic in the construction area during clearing and grubbing. The contractor shall be responsible for all damages caused. The contractor is obligated to repair all such damages to at least original condition or replace with new items at the contractor's expense. If any part of a structure is removed, the contractor shall repair and match it to remainder of the structure. The contractor shall be responsible for keeping the construction area clean and free of debris.

Clearing and grubbing shall consist of clearing natural ground surfaces of all trees, shrubs, vegetation and objectionable materials within the limits of construction in accordance with the provisions of Section 300-1, "Clearing and Grubbing," of the Standard Specifications and in accordance with the plans with these Special Provisions and as directed by the Resident Engineer.

Clearing and grubbing shall also include the removal and disposal of all miscellaneous concrete, pavement, pipes, hardware, timber, rubble or any other objectionable material encountered beneath the ground surface as a result of grading or trenching operations connected with the construction of the project improvements.

Clearing and grubbing shall also include the removal, relocation, adjusting, or salvaging of all facilities so indicated on the plans.

In addition to the above items, clearing and grubbing shall include, but not limited to the following items as shown on the plans or specified in these Special Provisions:

Removal of trees, shrubs, stumps, trash, debris barricade, and vegetation in the pavement cracks or curb lines whether or not specifically indicated on the plans or otherwise shown to be protected or relocated.

Deleterious materials resulting from clearing and grubbing operations shall be hauled away and disposed of at a site obtained by the Contractor.

Providing continuous pedestrian and driveway access to all business and residences within the project area, and as directed by the Resident Engineer.

Minor grading for swales and drainage control.

Sawcutting of concrete and asphalt concrete at joints and construction limits and the removal and disposal of asphalt concrete, base and concrete.

Protection of existing and relocated utility structures prior to and during construction of proposed improvements.

Removal and disposal of pipe, ditches, protection posts, guardrail, inlets, trees, stairways, and any additional items not specifically mentioned which may be found within the work limits. Furnishing and applying water.

Clear tree roots for 6" below sidewalk, where tree roots are the cause of damages.

Removal of existing irrigation which conflicts with the new irrigation system.

The Contractor shall protect all existing structures or facilities which are adjacent to, or fall within, the limits of the work to be done under this contract in accordance with Section 7-9 and 300-1 of the Standard Specifications. This item shall also include those structures and facilities which the plans show or these Specifications indicate to be protected. Any structure or facility to be protected which is damaged as a result of the Contractor shall be repaired or replaced at his cost, to the satisfaction of the Resident Engineer.

The Contractor shall remove and transport debris and rubbish in a manner that will prevent spillage on streets or adjacent areas. Clean-up of spillage will be at the Contractor's expense.

All material removed from the site shall be disposed of at the Contractor's expense at a site approved by the Resident Engineer.

Clearing and grubbing shall also include mobilization. Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, materials and incidentals to the project site necessary for work on the project and for all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site.

Areas to be excavated and filled shall be cleared and grubbed. Clearing shall consist of complete removal above the ground surface of trees, stumps, brush, vegetation, man-made structures and similar debris. Grubbing shall consist of removal of stumps, roots, buried logs and other unsuitable material and shall be performed in areas to be graded. Roots and other projections exceeding 1-1/2 inches in diameter shall be removed to a depth of 3 feet below the surface of the ground. Borrow areas shall be grubbed to the extent necessary to provide suitable fill materials.

Any asphalt pavement material removed during clearing operations should be properly disposed at an approved off-site facility. Concrete fragments which are free of reinforcing steel may be placed in fills, provided they are placed in accordance with these specifications.

Where median trees have been removed, large amounts of tree roots may be encountered.

300-1.3.1 General. DELETE its entirety and SUBSTITUTE with the following:

The contractor shall dispose of all removal material according to local, state, and federal laws and shall obtain and pay for all necessary permits and required approvals for appropriate disposal of all removed material.

Contractors shall remove from the site all rubble, debris, vegetation, roots, and perishable material. Contractor shall dispose of all removed items at an approved and authorized site, unless otherwise directed by the Engineer.

300-1.3.2 Requirements. DELETE a) in its entirety and SUBSTITUTE with the following:

a) **Bituminous pavement.**

Bituminous Pavement shall be cut and removed in such a manner so as not to tear, bulge or displace adjacent paving by use of sawcutting, rockwheel, jackhammer or milling machine. Wheel type pressure cutters and drop hammer cutters will not be permitted for final edge cut. Sawcutting of edges to be joined is required. Where only the surface of existing bituminous pavement is to be removed, the method of removal shall be approved by the Resident Engineer, and a minimum laying depth of 25 mm (1 inch) of new pavement material shall be provided at the join line. Where bituminous pavement adjoins a trench, the edges adjacent to the trench shall be trimmed to neat straight lines before resurfacing to ensure that all areas to be resurfaced are accessible to the rollers used to compact the subgrade or paving materials.

To the City Supplement, item 1, REVISE “16-inch” to “8-inch”.

d) **Tree Removal.** To the City Supplement, ADD the following:

6. Trees noted to be removed and not transplanted shall be removed completely including the root crown and roots over 2" in diameter where practicable. Stump shall be removed by grinding or other mechanical method to a depth of 3' below proposed finish grade. The Contractor shall verify the specific trees to be removed with the Resident Engineer prior to removal. The Contractor shall replace any tree removed with a Torrey Pines tree. Caution shall be exercised to avoid damage to adjacent property and barricades shall be erected to protect pedestrians. Trees outside the limit of work shall not be removed or otherwise damaged.

To the City Supplement, item d) **Removal and Disposal of Railroad Tracks**, REVISE title to read as follows:

e) **Removal and Disposal of Railroad Tracks.**

ADD:

300-1.3.3.1 Tree Preservation.

1. Upon completion of all work, Contractor shall remove tools, equipment, and tree preservation materials and measures from the site.

2. Contractor shall repair all areas, structures, and surfaces damaged and requiring repair resulting from tree preservation measures; repair adjacent construction or surfaces soiled or damaged by tree preservation measures; and restore soil surface to original grade and condition to maintain or replicate existing drainage relationships.

Contractor shall remove all signage (traffic, street, etc.) including posts and footings and deliver to the City of San Diego storage facility at the direction of the Resident Engineer. Contractor is responsible for verifying in the field the locations and quantity of signage to be removed and relocated. All street light mounted signage shall be removed and replaced on the new light poles as directed by the Resident Engineer. Contractor is responsible for installation of temporary signage (street, traffic, etc.) as required by the Resident Engineer.

The Contractor shall submit proposed salvage, demolition, and removal procedures for approval before work is started. Procedures shall provide for careful removal and disposition of materials specified to be salvaged, coordination with other work in progress, a disconnection schedule of all utility services, a detailed description of methods and equipment to be used for each operation and of the sequence of operations.

For your Dig-Alert identification number, Contractor shall call the following Underground Service Alert, services, and utilities:

Underground Service Alert	1-800-422-4133
Police	531-2000
Streets	527-7500
Drainage	527-7500
Water and Sewer	1-800-422-4133
San Diego Gas & Electric	239-7511
Cable T.V.	236-9251 ext. 5212

ADD:

300-1.3.4 Removal Of Metal Beam Guard Railing.

300-1.3.4.1 General. Existing metal beam guard railing, where shown on the plans to be removed, shall be removed and disposed of.

At those locations exposed to public traffic where guard railings or barriers are to be constructed, reconstructed, or removed and replaced, the contractor shall schedule operations so that at the end of each working day there shall be no post holes open nor shall there be any railing or barrier posts installed without the blocks and rail elements assembled and mounted thereon.

300-1.4 Payment. To the City Supplements, 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:

7. Existing concrete anchors or steel foundation tubes shall be completely removed and disposed of. Full compensation for removing concrete anchors shall be considered as included in the contract price paid for clearing and grubbing and no separate payment will be made therefore.

Full compensation for removing cable anchor assemblies, terminal anchor assemblies or steel foundation tubes shall be considered as included in the contract price paid for clearing and grubbing. No separate payment will be made therefore.

8. The lump sum price for Clearing and Grubbing shall include: removal and disposal of AC roadway, walkway and dike, metal beam guard rail and terminal systems, median mulch, existing stump, drainage structures, PCC sidewalk; the removal, protection, and trimming of all landscaping, irrigation, planters, walls, miscellaneous concrete, meter boxes, pull boxes and all associated electrical and conduit modifications, and any other objects that are in conflict with the installation of proposed pavement, sidewalks, pedestrian ramps, and slopes.

300-2.1 General. ADD the following:

On-site soils are suitable for reuse as fill if free from vegetation, debris, and other deleterious matter.

300-2.9 Payment. ADD the following:

The contract unit price bid for Unclassified Excavation shall include full compensation for all cost necessary for excavating and grading excess dirt behind new sidewalks and driveway.

Payment for Unclassified Excavation shall be made at the contract unit price per cubic yard and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in the excavation and embankments to achieve the subgrades and final grades as shown on the plans and as specified and as directed by the Resident Engineer.

300-4.5 Placing Materials for Fill. ADD the following:

Areas to receive fill should be scarified, moisture conditioned as necessary and compacted. Fill soils may be then be placed and compacted to the design finish grade elevations. All fill shall be compacted to at least 90 percent of laboratory maximum dry density in accordance with ASTM Test Procedure.

SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

303-1.11 Measurement and Payment. ADD the following:

Payment for modification of inlets and concrete culverts includes demolition of existing inlet, box, and all other related items as shown on the plans or as directed by the Resident Engineer.

303-5.9 Measurement and Payment. ADD the following:

Payment for linear feet of Curb & Gutter shall include full compensation for all labor and materials necessary to complete the work. This includes: backfill behind new curb, 4" sack slurry between guardrail and sidewalk, AC resurfacing, sawcutting for new curb and gutter transition as shown on the plansgrading, repair of adjacent pavement, equipment, painting of red curbs, and incidentals required to install curb and gutter in all locations including adjacent to driveways, per plan, per specifications, and as directed by the Engineer.

Payment for square feet of PCC Sidewalk shall include full compensation for all labor, materials, equipment, meter box and pull box adjustments, sign relocations, and incidentals required to install PCC Sidewalks, the protection of street trees located along Torrey Pines Street per plan, per specifications, and as directed by the Engineer.

Payment for remove and replace existing sidewalk includes any work necessary including excavation to remove and install new sidewalk adjacent to the Golf Course on southbound North Torrey Pines Street, as direct by the Resident Engineer.

303-8.9 Measurement and Payment. ADD the following:

Installation of maintenance pads includes but not limited to pervious concrete material, base and subbase material, geotextile, and grading as shown on plans.

SECTION 304 – METAL FABRICATION AND CONSTRUCTION

304-2 METAL RAILING.

ADD:

304-2.3 MBGR Installation.

304-2.3.1 General. At locations exposed to traffic, schedule activities so that at the end of each day no post holes are open and no railing posts are installed without the blocks and rail elements assembled and mounted.

At locations where traffic is adjacent to metal beam guard railing work, all materials required to complete the guard railing work at any 1 location shall be available before work starts at that location.

Drive wood posts, with or without pilot holes, or place the posts in drilled holes. Backfill any space around wood posts with selected earth, free of rock, placed in layers approximately 4 inches thick.

Moisten and thoroughly compact each layer.

Drive steel foundation tubes with soil plates attached, with or without pilot holes, or place the tubes in drilled holes. Backfill any space around the tubes with selected earth, free of rock, placed in layers approximately 4 inches thick. Moisten and thoroughly compact each layer. Insert wood terminal posts into the tubes by hand. Before the posts are inserted, coat the inside surfaces of the tubes with a grease that will not melt or run at a temperature of 149 °F or less. The edges of the posts may be slightly rounded to facilitate insertion of the posts into the tubes.

Place posts at equal intervals. If authorized, the contractor may space end posts closer to the adjacent posts.

The bolted connection of the rail element to the post shall withstand a 5,000-pound pull at right angles to the line of the railing.

Fabricate all metal work in the shop. No punching, cutting, or welding is allowed in the field. Lap rail elements such that the exposed ends do not face approaching traffic.

Installation of guardrail shall be completed in a timely manner after the existing guardrail has been removed. The Contractor must submit an order of work proposal that demonstrates how the time between the removal and installation of the guardrail will be minimized. This order of work proposal must be approved from the Resident Engineer prior to conducting any guardrail work.

Install terminal sections under the manufacturer's instruction.

Construct metal beam guard railing using:

1. Wood posts.
2. Wood blocks for line posts.
3. 1 type of post and block for any 1 continuous length of guard railing.

Components built from structural steel plates welded together may be substituted for the rolled steel components if:

1. Depth, width, and average thicknesses are at least equal to those of the rolled section.
2. For the welded section, the steel plates comply with ASTM A 36/A 36M and the flanges are welded to the web with continuous fillet welds on each side of the web.

End anchor assemblies and rail tensioning assemblies for metal beam guard railing shall comply with the following:

1. Type SFT end anchor assembly shall consist of an anchor cable, an anchor plate, a wood post, a steel foundation tube, a steel soil plate, and hardware.
2. Rail tensioning assembly shall consist of an anchor cable, an anchor plate, and hardware.
3. Anchor plate, metal plates, steel foundation tubes, and steel soil plate shall be fabricated of steel under ASTM A 36/A 36M.
4. Anchor rods shall be fabricated of steel under ASTM A 36/A 36M, A 441, or A 572, or ASTM

A 576, Grade 1018, 1019, 1021, or 1026. The eyes shall be hot forged or formed with full penetration welds. After fabricating and before galvanizing, anchor rods with eyes that have been formed with any part of the eye below 1,600 degrees F during the forming operation or with eyes that have been closed by welding shall

be thermally stress relieved. The completed anchor rod after galvanizing shall develop a strength of 50,000 lb.

5. Instead of built-up fabrication, anchor plates may be press-formed from steel plate, with or without welded seams.
6. Bolts and nuts shall comply with ASTM A 307, unless otherwise described.
7. Anchor cable shall be 3/4-inch preformed, 6 x 19, wire strand core or independent wire rope core, galvanized under Federal Specification RR-W-410, right regular lay, manufactured of improved plow steel with a minimum breaking strength of 23 tons. Submit 2 certified copies of mill test reports of each manufactured length of cable used. The overall length of each cable anchor assembly shall be a minimum of 6.5 feet.
8. Cable clips and a cable thimble shall be used to attach cable to the anchor rod where shown.

Thimbles shall be commercial quality, galvanized steel. Cable clips shall be commercial quality, drop-forged, galvanized steel.

9. Swaged fitting shall be machined from hot-rolled bars of steel under AISI C 1035 and annealed suitable for cold swaging. The swaged fitting shall be galvanized before swaging. A lock pin hole to accommodate a 1/4-inch plated spring steel pin shall be drilled through the head of the swaged fitting to keep the stud in the proper position. The manufacturer's identifying mark shall be stamped on the body of the swaged fitting.
10. 1-inch nominal diameter stud shall comply with ASTM A 449 after galvanizing. Before galvanizing, a 3/8-inch slot for the locking pin shall be milled in the stud end.
11. Swaged fittings, stud, and nut assembly shall develop the specified breaking strength of the cable.
12. Cable assemblies shall be shipped as a complete unit, including stud and nut.
13. Clevises shall be drop-forged galvanized steel and shall develop the specified breaking strength of the cable.
14. Submit 1 sample of cable properly fitted with swaged fitting and right hand thread stud at both ends, as specified above, including a clevis if shown, 39 inches in total length for testing.
15. Portion of the anchor rod to be buried in earth shall be coated with a minimum 20-mil thickness of one of the following:

15.1. Coal tar enamel under AWWA C 203

15.2. Coal tar epoxy under either of the following:

15.2.1. SSPC-Paint 16, *Coal Tar Epoxy-Polyamide Black Paint*

15.2.2. U.S. Army Corps of Engineers Specifications, Formula C-200a, Coal Tar-Epoxy (Black) Paint.

16. Metal components of the anchor assembly shall be fabricated under good shop practice and hot-dip galvanized under section 75-1.05.
17. Anchor cables shall be tightened after the concrete anchor has cured for at least 5 days.
18. Concrete used to construct anchors for end anchor assemblies shall be minor concrete.
19. Concrete shall be placed against undisturbed material of the excavated holes for end anchors.

The top 12 inches of the holes shall be formed if ordered.

20. Reinforcing steel in concrete anchors for end anchor assemblies shall comply with section 52.

Place anchor bolts to be set with epoxy in holes filled with the 2-component epoxy mixture specified in section 214-6.

Railing parts shall be interchangeable with similar parts, regardless of source.

304-2.3.2

Payment. Metal beam guard railing paid for by the linear foot. It is measured along the face of the rail element from end post to end post of the completed railing. The point of measurement at the end post is the center of the bolt attaching the rail element to the end post. If metal beam guard railing is connected to a structure, barrier, wall, or abutment, where the railing connects is considered the end post and the point of measurement is the midpoint between the 2 bolts attaching the rail element at the connection.

Railing is measured without allowance for overlap at rail splices.

Payment for excavation and backfill is included in the railing work that requires it.

Payment for galvanizing of metal beam guard railing and end treatment and all other necessary pieces specified in section 304-2.3 or directed by the Resident Engineer is included in payment for metal beam guard rail and installation.

Payment for metal beam guardrail and terminal systems includes all necessary SRT and SFT end treatments at all locations shown on the plans or directed by the Resident Engineer

The length of metal beam guard railing includes buried post anchors.

304-5

Payment. To the City Supplement, ADD the following:

The payment for signing shall include full compensation for the labor, materials, equipment for the removal of existing signs, relocation of existing signs, installation of new signs as indicated on the plans and necessary to complete the work and/or as may be directed by the Engineer. These signs include but are not limited to: historic

route signs, street name signs, stop signs, speed limit signs, and any other roadway signs as indicated on the plans or directed by the Engineer.

SECTION 305 – PILE DRIVING AND TIMBER CONSTRUCTION

305-2 TIMBER STRUCTURES AND TIMBER CONSTRUCTION

ADD:

305-2.7.1 General. Welding shall comply with AWS D1.1. Welds on exposed surfaces shall be ground flush with adjacent surfaces.

Galvanize completed steel parts and hardware for railings under section 210-3.

After galvanizing, railing elements shall (1) be free of fins, abrasions, rough or sharp edges, and other surface defects and (2) not be kinked, twisted, or bent. If straightening is necessary, the method used shall be authorized. Railing elements with kinks, twists, or bends may be rejected.

Clean and regalvanize (1) abraded or damaged galvanized surfaces of steel railing and posts and (2) ends of steel railing cut after galvanizing, except if allowed by the Resident Engineer, repairs may be made to the surfaces under section 210-3.

Mortar shall comply with the specifications for mortar in sections 201 and 202 and consist of 1 part by volume of cement and 3 parts by volume of clean sand.

Cure mortar by either the water method or the curing compound method using curing compound no. 6.

After constructing the railing, dispose of surplus excavated native soil uniformly along the adjacent roadway.

Rail elements, backup plates, terminal sections, end and return caps, bolts, nuts, and other fittings for metal beam guard railing shall comply with AASHTO M 180, except as modified in this section. Rail elements, backup plates, terminal sections, and end and return caps shall comply with AASHTO M 180 for Class A, Type I W-beam guard railing, except within 0.5 miles of the coast the components shall comply with AASHTO M 180 for Class A, Type II W-beam guard railing. The edges and center of the rail elements shall contact each post block. Rail element joints shall be lapped not less than 12-1/2 inches and bolted. Rail metal shall withstand a cold bend, without cracking, of 180 degrees around a mandrel of a diameter equal to 2.5 times the thickness of the plate.

Workmanship shall be equivalent to good commercial practice and all edges, bolt holes, and surfaces shall be free of torn metal, burrs, sharp edges, and protrusions.

Submit 2 certified copies of mill test reports of each heat from which the rail elements are formed.

Bolts shall have shoulders of a shape that will prevent the bolts from turning. Holes in the rail elements shall be of a similar shape to the bolt shoulder.

Splice rail elements at intervals not to exceed 12.5 feet and make splices at posts, unless otherwise shown.

Rail elements at joints shall have full bearing. If the radius of curvature is 150 feet or less, the rail elements shall be shaped in the shop. Stencil the radius of curvature on the back of each rail element in numerals of 2-1/2-inch height.

The grades and species of wood posts and blocks shall be no. 1 timbers, also known as no. 1 structural, Douglas fir or no. 1 timbers Southern yellow pine. Grade wood posts and blocks under section 204-1 except allowances for shrinkage after mill cutting shall not exceed 5 percent of the American Softwood Lumber Standard, PS 20, minimum sizes when installed.

Wood posts and blocks shall be rough or S4S. The size tolerance of rough sawn blocks in the direction of the bolt holes shall not exceed $\pm 1/4$ inch.

After fabricating, pressure treat wood posts and blocks under section 204-2 and AWP A U1, Use Category UC4A, Commodity Specification A.

If copper naphthenate, ammoniacal copper arsenate, chromated copper arsenate, ammoniacal copper zinc arsenate, ammoniacal copper quat, or copper azole is used to treat the wood posts and blocks, fill bolt holes with a grease recommended by the manufacturer for corrosion protection. The grease shall not melt or run at a temperature of 149 °F. Fill the bolt holes with the grease before the bolts are inserted.

Breakaway wood guard rail terminal posts may be field bored to provide the 2-3/8-inch-diameter hole shown.

Where field cutting or boring is performed after treatment, thoroughly swab, spray, or brush cuts and holes with 2 applications of the same type of preservative as initially used or treat with copper naphthenate under AWP A Standard M4. Preservative application in the field shall comply with section 204-2.

All metal railing shall be stained under section 310-5.4 to the color approved by Resident Engineer that matches natural terrain of the location closely.

ADD:

305-2.7.2

Steel Backed Timber Guard Rail Installation. Post lengths shall be installed as shown on the plans. Field cuts shall be treated with 2 coats of chromate copper arsenate. Field cuts shall not be in contact with the ground.

Posts shall be driven into pilot holes that are punched or drilled. The dimensions of the pilot hole shall not exceed the dimensions of the post by more than 0.6 inch. Posts shall be set plumb, backfilled and compacted.

The post length shall be stamped on the top of all wood posts. Numbers shall be re-stamped if disturbed during installation.

Bolts along the front face of the timber rail shall match the holes in the steel backing, as shown on the plans. Align timber guardrail along the top and front edges of the rail.

Timber rails shall be field cut to produce a close fit at joints. Field cuts shall be treated with 2 coats of chromated copper arsenate.

Installation of guardrail shall be completed in a timely manner after the existing guardrail has been removed. The Contractor must submit an order of work proposal that demonstrates how the time between the removal and installation of the guardrail will be minimized. This order of work proposal must be approval from the Resident Engineer prior to conducting any guardrail work.

305-2.7.3 Payment. Steel-backed timber guardrail will be measured and paid for by the linear foot in the same manner specified for metal beam guard railing in Section 304-2.3.2 “MBGR” of the this Specifications.

The contract prices paid per linear foot for steel-backed timber guardrail shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in steel-backed timber guardrail, including markers, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Resident Engineer.

The contract price paid per linear foot for extra steel-backed timber guardrail shall include compensation for all materials necessary to assemble and install the steel-back timber guardrail including hardware, splices, treatment, rails, and posts, and delivery to a location specified by the Resident Engineer. The steel-back timber guardrail should be delivered unassembled, as this will be used by the City to make future repairs.

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.

306-14 WATER SERVICES. ADD the following:

All work shall be done in accordance with the City of San Diego “Rules and Regulations for Reclaimed Water Use and Distribution within the City of San Diego”, April 1996, and the San Diego County Department of Environmental health Requirements.

Water Meters shall conform to the City Standard Drawings and to the provisions of the City Standard Specifications. Piping, meter, and material shall be listed on the City of San Diego Water Utilities Department Approved Materials List.

The contractor shall be required to coordinate, submit, and process the plans at the City of San Diego to procure the services of the City of San Diego forces to perform the City Work as indicated in the drawings. All cost associated with coordination, processing, and obtaining services shall be included in the lump sum price.

The contractor shall coordinate with the City of San Diego and verify the size and type of backflow devices to be installed.

City Water, Sewer, Capacity and Wet Tap Installation Fees for this project are included in the Bid list in Volume 2. The contractor shall be required to pay all City water, sewer, capacity, and wet tap installation fees. Contractor pays fees at Development Services Department, 1222 First Ave, San Diego, CA 92101, MS 301, 619-446-5000 (DSD). Call first for hours of operation. On Fridays, DSD’s Cashiers are only open 1:30-3:00 pm. DSD will issue “Water/Sewer Permit Invoice” to Contractor. After payment, Contractor sends copies of the paid invoices to the Resident Engineer.

To schedule Recycled Water Installations and Inspections for all recycled water meter installations or removals, wet taps, kill service inspections, main connections or other inspections, call (619) 527-7424. For recycled water meter installations and wet tap, please provide three week notice for City Forces to complete

306-14.1 PAYMENT. ADD the following:

The payment for water service connection shall include full compensation for all labor and materials necessary to complete the work. This includes excavation and exposure of water main for wet tap (to be installed by City Forces), coordination to install meter (to be provided by City Forces) and wet tap with City Forces (Call 619-527-7424), trenching and pavement restoration adjacent to trench shall be in accordance with Section 302-5.2.

SECTION 308 - LANDSCAPE AND IRRIGATION INSTALLATION

308-1 GENERAL. ADD the following:

Contractor shall install a temporary water supply from an approved source to irrigate the existing trees during construction, as outlined in section 308-4.9.5 of the specification.

308-2 EARTHWORK AND TOPSOIL PLACEMENT.

308-2.2 Trench Excavation and Backfill. ADD the following:

Wherever possible joint trenches shall be used for irrigation pipe and control wires. The fifteen-inch (15") cover trench depth shall apply to trenches located in the proposed planted areas only. All other trench depths shall comply with the requirements identified in Section 308-2.2. Backfill of all trenches under streets shall be with a Sand-Cement Slurry (Concrete Class 100-E-100).

ADD:

308-2.3.1.1 Weed Eradication. Soil preparation and planting shall not be allowed until all weeds are removed from within the limits of planting areas as indicated on the plans.

The Contractor's labor shall possess demonstrated ability to identify the difference between desirable native species and invasive weeds.

Weed eradication for entire project site. After irrigation installation, but before planting installation, the Contractor shall irrigate the entire project site three (3) to four (4) times over seven (7) to ten (10) days to germinate existing weed seeds. Allow weed seeds to grow until they reach a maximum height of two to three inches (2" - 3"). A post-emergent herbicide shall then be applied per manufacturer's specifications and instructions. Avoid contact of herbicide with the existing plants to remain.

All herbicides used shall be compatible with use in the vicinity of water and shall be applied in accordance with the label specifications by personnel holding a valid pesticide and herbicide applicator's license. Herbicide use shall be approved by the Resident Engineer prior to application. Rodeo herbicide, or approved equal shall be used in or near areas of standing water or streams since it is non-toxic to aquatic organisms and should be applied only by a licensed pest control applicator in accordance with the manufacturer's instructions.

Pulled weeds and debris shall be transported and disposed of properly offsite immediately using approved methods to prevent any seed dispersal on the site.

The eradication of exotic plant species is required prior to any planting. All exotic vegetation within the planting areas shall be removed. Herbicide shall be applied to weedy vegetation (e.g., giant reed (*Arundo donax*), tamarisk (*Tamarix* sp.), pampas grass (*Cortaderia jubata*), tree tobacco (*Nicotina glauca*), yellow star-thistle (*Centaurea melitnesis*), cocklebur (*Xanthium* sp.), castor bean (*Ricinus communis*), annual beardgrass, and Bermuda grass (*Cynodon dactylon*), etc.) within the project area. All weedy species should be cleared approximately two weeks following herbicide application.

The Resident Engineer shall inspect the site prior to planting.

Manual weed eradication shall continue during planting and during the plant establishment period and maintenance period; no herbicides shall be used following the initial weed eradication unless authorized by the Resident Engineer. Weed seedlings and sprouts shall be removed before attaining 12-inches in height and/or before producing seed.

Weed eradication for shrub areas and groundcover areas (planted from flats). Three (3) to four (4) days after these plants have been installed; the Contractor shall apply the pre-emergent herbicide per manufacturer's specifications and instructions.

308-2.3.2 Fertilizing and Conditioning Procedures. Paragraph (2), REVISE to read as follows:

Soil amendment materials shall be uniformly spread at the prescribed rate. All hardscape shall be dry at time of application. The quantities of materials necessary for the planting area shall be at the site and shall be verified by delivery tickets furnished to the Resident Engineer before spreading.

ADD the following:

Once rough grading has been accomplished, a minimum of (4) four soil samples from different representative areas of site shall be taken from areas approved by the Resident Engineer and a soil analysis performed to determine nutrient and mineral content, compositional characteristics, permeability, and existence of possible toxic elements. Soil test shall be conducted by a reputable agricultural soils laboratory approved by Resident Engineer. Analysis shall include recommendations for amending or correcting soil conditions. Results of soil analysis shall be received by Resident Engineer thirty (30) days prior to amending or soil and ordering amendments.

Based on the soils test results, the quantity or type of amendments may be modified by the Resident Engineer within 14 days of receipt of analysis.

Grub and clean all planting areas, removing all weeds, debris, and rocks from the site. All planting areas, 3:1 or less in steepness, shall be thoroughly tilled and loosened to a depth of fifteen (15) inches by approved method. Do not till near existing trees if roots are encountered.

All areas where existing soils are replaced with imported topsoil shall be backfilled and settled using applications of water to moisten soil and establish a stable finish grade. Areas which subside, and all depressions or irregularities shall be repaired, settled and grade re-established.

After all planting areas meet the finish grades per grading plan, the following rates of soil conditioning and amendment materials (or as modified by the soils report), shall be evenly spread over all planting areas and worked into the soil:

- 1) Soil amendments for all planting areas 3:1 or less in steepness (except temporary hydroseeded areas and creek restoration area):

Soil conditioner	4 cu. Yds/1,000 sq. Ft.
Gypsum	120 lbs/1,000 sq. Ft.
Iron sulfate	10 lbs/1,000 sq. Ft.
Soil sulphur	10 lbs/1,000 sq. Ft.

After leaching, apply:

10-10-10 fertilizer	25 lbs/1,000 sq. Ft.
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Amendments shall be thoroughly tilled and blended into the existing soil to a depth of six (6) inches by approved methods.

Note: Soil amendments as specified are for bidding purposes only, actual types and quantities will be based on soil analysis (provided by Contractor) after rough grading.

2) Soil amendments for sloped planting areas 3:1 or greater in steepness:

Gypsum 120 lbs/1,000 sq. Ft.

Iron sulfate 10 lbs/1,000 sq. Ft.

Soil sulphur 10 lbs/1,000 sq. Ft.

After leaching, apply:

10-10-10 fertilizer 25 lbs/1,000 sq. Ft.

Amendments shall be raked into soil surface without disturbing the compaction of the slope.

Soil amendments, as specified, are for bidding purposes only. Actual types and quantities may be altered based on soil analysis (provided by Contractor) after rough grading.

3) In addition, after amending soil as described above, all shrub planting areas shall be sprayed with "Sarvon" at the rate of 6 gallons/acre (or 1 qt./2,000 sq. ft.) immediately prior to leaching.

Deep Water Leaching:

1) After complete installation and testing of the irrigation system and tilling soil amendments, all on-grade areas shall be deep water leached, compacted and settled by repeated application of irrigation water until the soil has received a minimum of 12" of water, and has been thoroughly moistened to a depth of 24".

2) After leaching operation, 4 soil samples shall be taken by Contractor per Resident Engineer's direction and given to the soil laboratory for testing. Soil test shall meet the following requirements:

EC - Maximum 3.00

pH - Maximum 7.50 - Minimum 6.0

Tree and Shrub Backfill:

Tree and shrub backfill mixture shall be sixty-seven percent (67%) site soil and thirty-three percent (33%) Type 1 organic soils amendment and ten (10) lbs./cu.yd. gypsum - 6 lbs./cu.yd. 12-12-12 fertilizer. After backfilling planting hole, apply a mixture of two (2) tablespoons of "Sarvon" in five (5) gallons of water to each tree and shrub.

Post Planting Fertilizer:

The Contractor shall apply post-plant 14-7-3 fertilizer at the rate of twenty pounds (20 lbs.) per 1,000 sq. ft., thirty (30) days after planting and once again at the end of the post-construction maintenance period, except in creek restoration areas.

308-2.4 Finish Grading. DELETE in its entirety and SUBSTITUTE the following:

Contours and finish grade shall provide for drainage to sheet flow and shall not channel drainage in a manner where volume and velocity of water will create surface erosion.

The finish grade below adjacent paving, curbs or headers shall be 1 inch in shrub or groundcover areas.

After blending soil amendments and fertilizers into soil, water and allow soil to settle to provide a stable base. After the soil has dried out to a workable condition, the planting areas shall be regraded, raked, and smoothed to the required grades and contours. Finish surfaces shall be clean and suitable for planting.

Finish grade shall insure positive drainage from the site. Surface drainage shall be away from all building foundations. The Resident Engineer shall approve the final grades and elevations before planting operations may begin.

Finish grades shall be measured at the top surface of materials.

The surface of all areas to be planted or seeded shall be completely free of loose rocks and clods larger than two (2) inches in their largest dimension, except cobblestone areas, and all weeds or debris shall be removed from the site. For turf areas, rocks and clods larger than 1" shall be removed.

All manufactured slopes shall be track-walked with a suitable tracked vehicle to provide horizontal track marks and striations across the face of the slope.

The Contractor shall take every precaution to protect and avoid damage to underground utilities during his grading and conditioning operations.

The Contractor shall coordinate all drainage work with all other trades. Established site drainage shall be maintained by the Contractor during all phases of landscape construction.

Final finish grades shall ensure positive drainage of the site with all surface drainage away from trails, buildings, play areas, walls, and toward, drainage facilities, and catch basins or water courses.

Final grades shall be acceptable to the Resident Engineer before planting operations will be allowed to begin.

The above conditions shall also apply to the final finish grade at the time of project completion.

When fine grading all planted areas of the site, Contractor shall rake and remove from site all rock larger than 1" diameter in lawn areas, 2" diameter in shrub and groundcover areas and 4" and larger on slopes steeper than 3:1/2:1 to a depth of 6".

308-4 PLANTING.

308-4.1 General. ADD the following:

The Contractor shall be responsible for managing the site and performing planting, maintenance and corrective measures to the best advantage of the plant material to promote healthy growth, establishment and success of the plantings. This shall include providing for drainage, irrigation, repair of damaged features, correction of deleterious conditions, maintaining a proper soil moisture level, weeding, fertilization, protection, temporary measures to promote establishment and other reasonable maintenance and construction efforts needed to provide for the successful establishment of the plant materials during the entire contract period.

The Contractor shall not install planting as shown in the plans when it is obvious in the field that conditions exist which are detrimental to plant survival and growth. Such conditions shall be brought to the attention of the Resident Engineer. The successful establishment of the plantings during the entire contract period is the Contractor's responsibility.

The irrigation system shall be installed, pressure tested, coverage tested and operational prior to planting, with the exception of large specimen planting that must be planted prior to other operations as approved by the Resident Engineer.

Actual planting shall be performed during those periods when weather and soil conditions are suitable and in accordance with locally accepted horticultural practice, as approved by the Resident Engineer. No planting shall be done in any areas until it has been satisfactorily prepared in accordance with these specifications. Soil moisture level prior to planting shall be no less than 75% of field capacity. The determination of adequate soil moisture for planting shall be the sole judgment of the Resident Engineer and his decision shall be final. The Contractor shall obtain approval from the Resident Engineer of planting pits before planting operations shall begin. If the soil moisture level is found to be insufficient for planting, all planting pits shall be filled with water and allowed to drain before starting planting operations. No more plants shall be distributed in the planting area on any day than can be planted and watered on that day. All plants shall be planted and watered as herein specified immediately after the removal of the containers. Containers shall not be cut prior to placing the plants in the planting area.

Percolation Test: Prior to installing plants, Contractor shall perform a minimum of three percolation tests in representative areas of the site to verify acceptable natural drainage for planting pits. Tests shall be performed as follows:

- 1) Dig a pit 2'x 2' x 2' deep.
- 2) Fill with water to top and cover with plywood and barricade to protect pedestrians.
- 3) Make daily observations noting the depth of water each day.
- 4) Report to the Resident Engineer the length of time that the water takes to drain completely from each hole. If water drains from the hole within one day, refill with water. Based on this test, the Resident Engineer will confer with the

Resident Engineer and will make a determination of whether additional drainage measures will be required for boxed size tree plantings.

No plants shall be installed until percolation tests have been observed by the Resident Engineer and a determination made that no further drainage measures are required.

Planting shall not be performed if plant pits contain standing water, or if pits are over saturated to a condition which may result in an unhealthful condition for the plant. It is the Contractor's responsibility to provide a suitable growing condition for the plant material and to maintain that condition throughout the entire contract period.

If requested by the Contractor, the Resident Engineer will visit the nursery from which trees are procured to inspect the trees prior to delivery to the site.

It is in the Contractor's interest to have the Resident Engineer visit the nursery and inspect the Contractor's selected trees prior to delivery to the site. This may prevent extra shipping expenses to the Contractor for trees delivered to the site, but subsequently rejected by the Resident Engineer. This does not preclude the Resident Engineer from rejecting any trees delivered to the site which, upon inspection at the site, do not meet the criteria for acceptance as previously outlined.'

After approval and transportation, and upon arrival at the construction site, the Resident Engineer will inspect the plants for any damage that may have occurred in transit. Plants that have been damaged in transit may be rejected at no cost to the City in accordance with the Project Special Technical Provisions, Section 212-1.4.1.

308-4.2 Protection and Storage. ADD the following:

The Contractor's on-site plant storage area shall be approved by the Resident Engineer prior to the delivery of any plant materials. Any plants determined by the Resident Engineer to be wilted, broken, or otherwise damaged shall be rejected at any time during the project, whether in the ground or not. All plants shall be handled by their containers. Any plant that has been handled by its trunk or stem shall be rejected. All rejected plants shall be removed from the site immediately.

ADD:

308-4.2.1 Existing Tree, Shrub and Ground Cover Protection. The work is to be performed in areas of existing planting and irrigation. The Contractor shall take precautions to minimize the disturbance to adjacent planted areas and is required to replace in kind any irrigation or planting disturbed by the work.

Identify and protect from damage all individual plants and areas of planting to remain by appropriate means. The Contractor shall provide equivalent size replacement plants in the event that the death or decline of existing plants to remain is attributable to the Contractor's negligence or lack of protection as determined by the Resident Engineer.

No storage of construction equipment or construction materials nor stockpiling of soil or debris shall be placed within 1'-0" from the trunk for every 1" caliper of any existing tree.

All plants to remain on-site shall be watered and irrigated as necessary during the entire construction contract to provide for the health of the plant. Any plants required to be removed, boxed and set aside for future installation shall be watered, and

maintained by the Contractor in a healthy condition until replanted or until the end of the maintenance period.

The removal of any limbs, branches, and roots shall be done only after conferring with the Resident Engineer

ADD:

308-4.2.2 Excavation Adjacent To Existing Tree, Shrubs, And Ground Cover To Remain. Trenching within the drip line of trees and shrubs shall be avoided. It is the intent of the plans that the Contractor provide an alternate routing of trenching to avoid cutting through roots of existing trees.

Where it is necessary to excavate in close proximity to existing trees and shrubs, all possible caution shall be exercised to avoid injury to roots and trunks. In the event it is necessary to cut the roots of an existing tree, the tree shall be pruned prior to excavation to reduce the foliage volume by the same percentage as the approximate percentage of roots removed. Pruning of trees on private property shall not be done without written permission of the property owner.

Excavation within the drip line of the tree shall be done by hand, tunneling under roots 1" in diameter and larger, and shall be done only on the approval of the Resident Engineer. The exposed roots of trees shall be covered and shaded by moist burlap or canvas until the trench is backfilled.

308-4.5 Tree and Shrub Planting. DELETE in its entirety and SUBSTITUTE the following:

Any plant with a broken or cracked root ball before or during planting shall not be planted.

Containers shall be removed in such a manner that the plant root is not injured. Balled plant wrapping shall be loosened or cut back after plant is positioned in the planting hole.

The native soil at the bottom of planting holes shall be scarified to a depth of 150 mm (6 inches). The sides of the planting holes shall be scarified or roughened.

All planting holes shall be backfilled with a prepared soil mix. Soil mix shall consist of the following components for each ten cubic yards of soil mix:

(The following soil mix types and quantities are for bidding purposes only. Actual soil mix types and quantities shall be based on the soils analysis test results after rough grading is complete.)

4 Cubic yards type 1 organic soil amendment

6 Cubic yards on site soil

30 Lbs. Agricultural gypsum

5 Lbs. Iron sulfate

15 Lbs. 10-10-10 fertilizer

- 1 The bottom of the planting hole shall be scarified to a depth of 6 inches and the native soil mixed with an equal amount of soil mix.
- 2 Where required, place root control barriers into planting holes at locations noted on drawings prior to adding soil mix.
- 3 Soil mix shall be added and water compacted in the bottom of the planting hole so that the crown of the plant is one inch above finish grade, unless indicated otherwise on details.
- 4 The plant shall be approximately at the center of the hole and plumb.
- 5 Prepared soil mix shall be added in the hole to cover one-half the height of the root ball. Water shall then be added to thoroughly saturate the root ball and adjacent soil.
- 6 After the water has drained, the specified number of fertilizer tablets shall be placed in the planting hole adjacent to the root ball. The Resident Engineer shall approve fertilizer tablet placement prior to filling remainder of hole with soil mix.
- 7 The backfill shall be thoroughly water settled and additional prepared soil mix added to fill any remaining void below finish grade.
- 8 The plant shall be guyed and/or staked as specified in Section 308-4.6.
- 9 The area around plants shall be regraded to finish grade. The excess soil shall be disposed of by the Contractor or as directed by the Resident Engineer.
- 10 Fertilizer planting tablets (21 gram) shall be placed with each plant at the following rates:
 - One (1) tablet per 1 gallon container
 - Two (2) tablets per 5 gallon container
 - Four (4) tablets per 15 gallon container
 - One (1) tablet per each two (2) inches of box size container
- 11 All plants which settle deeper than specified shall be raised to correct level or replaced as directed by the Resident Engineer.
- 12 Pruning shall be limited to the minimum necessary to remove injured twigs and branches, and to compensate for loss of roots during transplanting, but never to exceed one-tenth the branching structure. Pruning may be done only with the approval of and in the presence of the Resident Engineer. Cuts over three-quarters of an inch shall be painted with approved tree wound paint.

308-4.6.2 Method "B" Tree Staking. DELETE in its entirety and SUBSTITUTE the following:

All 15 gallon, 24" box and 36" box size trees shall be double staked. Refer to section 212-1.5.3 of these addenda for approved staking materials and guying materials.

The tree shall be staked with the type and length of stake specified on the plans or in the special provisions. One stake shall be placed 18 inches from each side of the tree trunk, unless directed otherwise by the Resident Engineer. Ties shall be made of 1 inch or wider flexible plastic ribbon material having a minimum tensile strength of 500 pounds. Four ties shall be used; two at 2 inches from the top of each stake and two at 2 feet above the ground. Ties shall be loops secured to the stake on one end and shall be long enough to provide for 3 inches of slack to permit the tree trunk limited movement in any direction.

Payment for tree staking shall be included in the unit price paid for trees and no separate payment will be allowed therefore.

308-4.7 **Ground Cover and Vine Planting.** DELETE in its entirety and SUBSTITUTE the following:

Soil preparation and fine grading shall be completed prior to groundcover planting.

Soil shall be moist within the total root zone of the material being planted.

Following planting, ground cover and vine areas shall be regraded to restore smooth finish grade and to ensure proper surface drainage. A layer of the specified mulch shall be spread over the planted areas to the depth specified in the plans. Watering shall begin immediately following mulching.

When necessary to prevent plant damage from pedestrian traffic during the initial growing stage, the Contractor shall erect temporary protective fencing to be removed at the end of the plant establishment period.

ADD:

308-4.10 **Protection of Existing Plant Material.**

308-4.10.1 **Construction Operations.**

1. All plants outside the limit of work shall be protected in place. All trees to remain shall be protected in place. Plants and trees to be protected in place shall be protected to prevent damage to the tree canopy, breakage of branches, injury to trunk and bark, compaction of soil around roots, contamination of soils and other potential threats to the health of the tree resulting from construction operations, or the actions of the Contractor or personnel. Damages are subject to penalties as noted below.
2. Identify and protect from damage all individual plants and areas of planting to remain by appropriate means. Contractor shall provide equivalent size replacement plants in the event that the death or decline of existing plants to remain is attributable to the Contractor's negligence or non-performance of these requirements.
3. Provide adequate barriers (6-foot tall orange vinyl safety fencing staked with steel fence stakes or approved equal) and undertake work in a manner that protects trees from damage by operations and equipment. Barriers shall remain in place during the entire construction operation, and shall not be removed until the Resident Engineer deems there is no longer potential for damage to the protection zone.

4. In many cases the tree roots will extend far beyond the drip line of the tree. The Contract shall extend the protection zone to protect the health and survival of the tree per Arborist's recommendations, retained by the City and approved by the Resident Engineer.
5. Do not park vehicles or store material and chemicals under the drip line of trees. Do not drive under drip line of trees, except where existing roads pass under trees.
6. Do not operate equipment, which generates fumes or excessive heat, within 20 feet of the trees to remain. Fumes and heat can damage trees and bark tissues.
7. The grade around existing trees to remain shall remain as existing to avoid disturbance of roots and avoid burying the roots under additional soil.
8. No excavations shall take place within the tree preservation limits except as indicated on the plans for grading and construction purposes and under the supervision of the Resident Engineer.
9. When excavation near a tree to be preserved must be carried out, damage shall be limited by root pruning. Roots shall be cleanly severed at the limit of the excavation. Root pruning shall be completed before the grading, installation of improvements, and structures. All work shall be done based on the Arborist's recommendations.
10. Trenching, excavation, and soil disturbance within the drip line of vegetation to remain shall not be permitted except as specifically allowed by the Resident Engineer. It is the intent of the Plans that the Contractor provide an alternate routing of irrigation, electrical, and all trenching to avoid cutting through roots of existing trees.
11. Where it is necessary to excavate in close proximity to existing trees and shrubs, all possible caution shall be exercised to avoid injury to roots and trunks. In the event it is necessary to trench or cut the roots of an existing tree, the tree roots shall be pruned prior to excavation to cleanly sever the roots before trenching. All work shall be performed under the direction of the Resident Engineer. The exposed roots of trees shall be covered and shaded by moist burlap or canvas until the trench is backfilled.
12. Excavation for trenches within the drip line of the trees shall be done by hand, tunneling under roots 2" in diameter and larger, and shall be done only on the approval of the Resident Engineer.
13. The Contractor shall follow the Arborist's recommendations for periodic deep watering of plants to be protected in place to provide compensation for root loss. Watering may require monthly deep soaking to a depth of 2 feet by means of a soaker hose. Direct application of water around the trunk should be avoided. If required, trees shall be watered during the entire construction contract to provide for plant health and survival. Watering shall be done under the direction of the Resident Engineer.
14. Contractor shall promptly repair trees damaged by construction operations in a manner acceptable to the Resident Engineer. Trees damaged beyond repair shall be replaced with the same species and similar size or value as determined by the Resident Engineer. Repair and replacement of trees damaged by the construction operations shall be at the Contractor's expense.

308-4.10.2 Maintenance of Trees to Remain During Construction. Trees to remain shall be maintained to promote the survival, good health, and appearance of each individual tree. Maintenance shall include watering, fertilization, pest control, pruning, and other treatments, applications, and other horticultural practices to promote the health of the tree. All maintenance shall be done under the direction of the Certified Arborist, retained by the City and approved by the Resident Engineer. The Contractor shall provide water for irrigation of the trees to remain throughout the construction period, as needed, to provide for the best health of the trees.

308-4.10.3 Pruning Existing Trees to Remain.

1. Pruning of trees and shrubs to remain is not permitted unless specifically approved in writing by the Resident Engineer.
2. The removal of any limbs, branches, and/or roots shall be done only after obtaining the approval of the Resident Engineer.
3. Trees may require pruning to raise the canopy to allow work, remove roots within the area to be graded, remove limbs conflicting with the roadway overhead clearance, remove hazardous conditions, or other construction needs. All pruning for all purposes shall only be done after the review and recommendation by the Certified Arborist, retained by the City, in writing and approved by Resident the Engineer.
4. Trees shall be pruned to the best advantage of the continued survival and health of the tree. All pruning shall be done in a manner to maintain a natural appearance, remove dead, weak, or crossing branches, balance and enhance tree form, improve structure, and compensate for root loss during construction based on the specific needs of each tree as recommended by the Arborist, retained by the City and approved by the Resident Engineer.
5. Pruning shall conform to the standards of the National Arborists Association Standards for Tree Pruning.
6. All pruning cuts shall be smooth, clean cuts made with sharp equipment. All cuts shall be made at branch or trunk crotches. No stubbing is permitted. Undercutting is required to promote a clean cut and prevent damage to bark below cut. Final cut shall be smooth and clean single cut.
7. All cuts are to be allowed to heal exposed to air. Healing compound, sealer, or tar shall not be applied.
8. Pruned trees shall be reviewed by the Certified Arborist, retained by the City and approved by the Resident Engineer, 30 days after pruning to provide recommendations for additional measures to protect the trees and correct problems. Recommendations shall be in writing.
9. Contractor shall perform all corrections required to the satisfaction of the Certified Arborist, retained by the City, and the approved by Resident Engineer.

308-4.10.4 Removal of Existing Trees. Trees to be removed as indicated on the Plans and Arborist Study in Appendix J or as determined by the Resident Engineer in the field shall be removed by tradesmen experienced in this type of work.

Surrounding property, facilities, construction, and existing trees to remain shall be protected from damage. Remove all portions of the tree to be removed, including the rootball and roots within a 5-foot radius of trunk to a minimum depth of 3 feet. Remove roots within 12 inches of surface. Protect roots of trees to remain from damage. Removals shall be done under the supervision of a Certified Arborist, retained by the City, who shall review the area surrounding the tree to be removed for possible conflicts with adjacent vegetation to be protected in place. The Contract shall follow the Arborist's recommendations to protect and minimize impacts to the adjacent plants, roots of living trees, shrubs, and the adjacent tree canopies. The removals shall be performed in a manner to promote the survival, good health, and best protection of the existing vegetation to remain.

308-5 IRRIGATION SYSTEM INSTALLATION.

308-5.1 General. ADD the following:

Utility connections shall be as shown on the plan or designated by the utility company. The Contractor shall include in its bid, all costs for such utility connections shown on the plans or designated by the utility company.

Materials shall be delivered and stored in accord with Section 4 of the Standard Specifications.

Contractor shall provide a temporary water supply from an approved source to irrigate existing plants until the permanent water source is operable. Contractor shall submit shop drawings and description of the temporary water supply to the water authority and City for approval. The temporary water supply shall be of adequate pressure and gallonage to operate the existing irrigation system and other required irrigation equipment at its designed capacity.

Contractor shall furnish any and all temporary electric power required to operate irrigation controllers during construction period or until permanent electrical power has been furnished.

Contractor shall check and verify the water pressure at P.O.C. prior to beginning of work. Notify Resident Engineer of any discrepancy between pressure indicated on plans and actual water pressure.

Contractor shall check and verify all site conditions, utilities, and services prior to trenching. Verify point of connection location prior to beginning of work. The existing recycled water line depth is approximately three feet at the point of connections.

Plans are diagrammatic and approximate. All piping, valve boxes, backflow preventers, etc., shall be located in planting areas. No irrigation equipment except pipe crossings and electrical crossings shall be located in or under sidewalks or in the street. Except where street crossings or trench rerouting is required to protect existing trees.

All irrigation equipment shall be installed, flushed, pressure tested, and the coverage test approved prior to plant installation.

308-5.2 Irrigation Pipeline Installation.

308-5.2.1 General. ADD the following:

Unless otherwise specified no PVC pressure pipeline shall be installed within 3 feet of and parallel to another line.

Concrete thrust blocks, minimum 1 cu. ft. with sufficient bearing area to resist the thrust of water, shall be constructed against undisturbed earth at all changes of direction exceeding 45 degrees for pressure mainline pipe larger than 2", thrust blocks shall be installed at gate valves, tees, elbows, crosses, and ends of pipe runs; or wherever the Resident Engineer deems one to be necessary. Thrust blocks are to be installed as per Standard Drawing SDW-151, sized as for 4" pipe.

Contractor shall install sleeves and chases where any waterline or controller wire passes under paving. Sleeves and chases shall extend 12" beyond each side of the improvement. The letter "E" for electrical or the letter "W" for water shall be stamped or chiseled on the improvement directly above the chase or sleeve. The chases shall be a minimum 15" deep for electrical and the sleeves 21" below grade for water. Sleeves and chases shall be Schedule 40 PVC, typical. The diameter of the sleeve shall be two (2) pipe sizes larger than the diameter of waterline, to be installed in sleeve.

All pressure pipe shall have a continuous blue colored trench marker metallic tape placed nine inches (9") below finished grade directly above the buried pipe. Marker tape shall be "Alarmatape" as manufactured by Paul Potter Warning Tape, Inc., or approved equivalent.

Sand encasement for all irrigation pipe, direct burial control wire, and electrical conduit shall be plaster or mortar sand with a sand equivalent of 50 per Section 200 of the standard specifications.

Avoid installing pipe through proposed tree locations to avoid conflict with root ball.

308-5.3 Installation of Valves, Valve Boxes, and Special Equipment. ADD the following:

Backflow preventers shall be installed as specified on the contract documents.

Backflow preventers shall be provided with pipe supports and the accessories necessary to properly secure the assembly.

308-5.4 Sprinkler Head Installation and Adjustment.

308-5.4.1 General. ADD the following:

Plans are diagrammatic and approximate. Precise location of heads / bubblers shall be field adjusted to meet minor variations in the plan.

308-5.5 Automatic Control System Installation. Third paragraph, REVISE second sentence to read as follows:

When the valve is to be housed in a valve box, it shall be installed with at least a 100 mm (4 inch) minimum to a 150 mm (6 inch) maximum clearance below the cover. The Contractor shall install a complete automatic irrigation control system including

the automatic controller(s), control valves and wiring, and all necessary accessories and utility service connection(s).

Third paragraph, ADD the following:

Valve boxes shall be set to finish grade on an unmortared brick foundation.

Seventh paragraph, ADD the following:

Controllers, 12 volt conductors and valve actuators shall be installed in conformance with the controller manufacturer's instructions.

Eighth paragraph, ADD the following:

Control wiring or hydraulic control tubing shall be housed in conduit between the controller and a point at least one foot outside the limits of the controller foundation, or the structure foundation and where the controller is housed. All other wiring and hydraulic control tubing issuing from the conduit shall be direct burial installed in main or lateral water line trenches wherever practicable. The wiring or tubing shall be installed in the lower corner of the irrigation pipeline trench. Sufficient slack shall be left in the wiring or tubing to provide for expansion and contraction. When the control wiring or tubing cannot be installed in a pipe trench, it shall be installed a minimum of 18 inches below finish grade.

308-5.6 Flushing and Testing.

308-5.6.1 General. First paragraph, after second sentence, ADD the following:

Flush all pipes clean prior to installing sprinkler heads. Do not allow water from irrigation flushing to enter plant pits where water would result in over-saturation of soil creating an unhealthful condition for plant materials.

308-5.6.2 Pipeline Pressure Test. ADD the following:

Mains larger than 2 inches, asbestos cement mains and mains employing socket and spigot gasket joints shall be tested in accordance with section 306-1.4. If leaks develop, repair leaking portions and repeat test until entire system is proven watertight. Test shall be observed and approved by Resident Engineer prior to backfilling trenches.

ADD:

308-5.12 Operation and Maintenance Manuals. Prepare and deliver to the Resident Engineer within ten calendar days prior to completion of construction, two (2) three ring hard cover binders containing the following information:

Index sheet stating Contractor's address and telephone number, list of equipment with name and addresses of local manufacturers' representatives.

Catalog and parts sheets on all material and equipment.

Contractor Guarantee statement.

Complete operating and maintenance instructions for all equipment.

In addition to the above mentioned maintenance manuals, provide the maintenance personnel with instructions for maintaining equipment and show evidence of such instruction in writing to the Resident Engineer at the conclusion of the project.

ADD:

308-5.13 Extra Equipment. Contractor shall provide to the Resident Engineer:

Three (3) keys for opening and locking each automatic controller enclosure.

Two (2) globe valve keys with a minimum four (4) foot long handle.

Five (5) sprinkler heads with nozzles, screens and flexible swing joints of each type used on the project.

Five (5) quick coupler keys with swivel hose ells to match quick coupler valves used on the project.

308-6 Maintenance and Plant Establishment. DELETE in its entirety and SUBSTITUTE the following:

The Contractor shall maintain all planted areas on a continuous basis as they are completed during the progress of the work and during the establishment period, and shall continue to maintain them until final acceptance.

All planted areas shall be kept free of debris and shall be weeded and cultivated at intervals not to exceed 10 days.

Any required pruning of plants will be designated by the Resident Engineer at the start of the plant establishment period and the Contractor shall perform the pruning as part of the plant establishment work.

The Contractor shall request a final inspection to begin the plant establishment period after all planting and related work has been completed in accordance with the Contract Documents.

After planting is completed, a field notification will be issued to the Contractor to establish the effective beginning date of the plant establishment period. The plant establishment period shall be for a period of 90 calendar days and shall be extended by the Resident Engineer if the planted areas are improperly maintained, appreciable plant replacement is required, or other corrective work becomes necessary.

Upon completion of the plant establishment period, a final inspection for acceptance will be performed by the Resident Engineer. If the plant establishment period is satisfactorily completed ahead of other work included in the Contract, the maintenance of planted areas shall be continued by the Contractor until all other work has been completed and accepted.

The post-construction maintenance / plant establishment period shall not begin until all items in the contract are complete, constructed, in place, checked and accepted. The effective date of the start of the post-construction maintenance period shall be established by the Resident Engineer.

The Contractor shall continuously maintain all involved areas of the contract during the progress of the work and during the maintenance period until the final acceptance of the work. The landscape maintenance is considered as work to be done under this contract and is included in the overall time of completion of this contract.

The Contractor shall provide complete landscape maintenance of all planting areas. The work shall include, but not be limited to, watering, mowing, litter control, weed control, stake repair, cultivating, repair of irrigation systems, control of diseases and pests and control and repair of soil erosion. Maintenance practices shall be a sufficient effort that assures plant health and growth.

Throughout the maintenance period, the Contractor shall be responsible for controlling the application of irrigation water to promote plant growth, health, and vigor while minimizing water use and avoiding over irrigation which may contribute to structural damage or water related damage. This control shall be exercised by careful and frequent programming of controller and occasional hand watering.

All bark-mulched areas and planted areas, except lawn and hydroseed areas, shall be treated with an approved granular pre-emergent herbicide according to manufacturer's specifications at the beginning of the post-construction maintenance period and, if the product specifies, additional scheduled treatments on a regular schedule, as required through the post-construction maintenance period. Verify appropriate product use on newly planted groundcovers.

The Contractor shall control weeds, disease, and pest infestations in the planting areas. The Resident Engineer shall approve all methods and materials for such control upon approval. The Contractor shall implement the control measures exercising extreme caution in using pesticides and taking all steps to ensure the safety of the public. Only licensed personnel will be permitted to perform toxic spraying.

During the plant establishment period, the Contractor shall furnish sufficient personnel and equipment on a daily or weekly basis to perform the work required by this section. Any day when the Contractor fails to adequately carry out specified maintenance work, as determined necessary by the Resident Engineer, the day will not be credited as one of the plant establishment days. All planting areas which are damaged by construction shall be repaired by the Contractor within thirty (30) calendar days following completion of construction in such areas, unless otherwise approved by the Resident Engineer. Repair shall consist of bringing the damaged area back to final grade, replanting the area with the same vegetation as originally specified and maintaining the area to achieve acceptable plant establishment.

The Contractor is responsible for protection of all planting during the entire contract period by adequate methods. Planting damaged during the contract period shall be replaced.

Contractor shall call Resident Engineer for a final inspection two (2) weeks before the end of the post-construction maintenance period. Failure to pass inspection will result in an extension of the post-construction maintenance period as the Resident Engineer deems necessary, at no additional cost to the City.

Contractor shall provide the Resident Engineer with as-built drawings of the entire irrigation system a minimum of one week prior to the final walkthrough.

308-6.1.1 Tree Trimming. To the City Supplement, ADD the following:

The removal of any limbs, branches and roots shall be done only after conferring with the Resident Engineer.

All existing trees to remain within the limit of work shall be pruned to the best advantage of the health of the tree, to thin and open the canopy, remove dead, weak or crossing branches, balance and enhance tree form, improve structure, and compensate for root loss during construction based on the specific needs of each tree as recommended by the Arborist, retained by the City and approved by the Resident Engineer. The trees shall be pruned to remove secondary branches and foliage within 7' of grade, and eliminate overhead obstructions to a minimum height of 7 feet above grade.

308-6.1.4 Root Pruning (Curb Side). DELETE in its entirety and SUBSTITUTE the following:

308-6.1.4.1 General.

1. Prior to commencement of tree preservation work, the Contractor shall walk the site with the Engineer and the Arborist, retained by the City, to discuss and clarify existing tree conditions, safety, protection, site limitations, and concerns prior to construction. The Contractor shall review existing trees to remain within the limit of work and adjacent trees with trunks within 4' of excavation, to identify and evaluate existing conditions of the trees, possible hazards, and recommendations to preserve the health and well-being of the existing trees to remain. Protective fencing, or other measures, as recommended by the Arborist, and approved by the Resident Engineer, shall be installed by the Contractor, prior to the commencement of any other work. Fencing shall indicate the limit of construction activity, restricting the operation and movement of all equipment and vehicles, storage, trampling and other operations. Construction activities and storage of materials shall be prohibited within areas to be protected. Orange vinyl construction fence, minimum 4' height shall be used to designate areas off limits due to tree protection. Stake the protection fence with steel construction stakes.
2. Roots to be removed from a tree to remain shall be removed 6 inches outside the area to be graded, preserving the maximum root mass possible. Where possible, a minor modification to steepness of the slope should be made to allow additional roots to remain intact.
3. Roots shall be severed cleanly to avoid ripping the bark and roots. Sealer, tar, or other healing applications are not to be applied to cuts.
4. Roots of trees to remain shall be protected to the maximum extent possible. Cover exposed roots with wet cloth to prevent roots from drying out and backfill with soil as soon as possible.
5. The existing tree canopy outlined on the plans is approximate and is to be established at the site. The Contractor shall meet with the Engineer to establish and mark out the exact location of the limit of work at the vegetation canopy to avoid impact to existing desirable vegetation.

308-6.1.4.2 Construction Operations.

1. All plants outside the limit of work shall be protected in place. All trees to remain shall be protected in place.
2. Identify and protect from damage all individual plants and areas of planting to remain by appropriate means. Contractor shall provide equivalent size replacement plants in the event that the death or decline of existing plants to remain is attributable to the Contractor's negligence.
3. Do not store material and chemicals under the drip line of trees.
4. The grade around existing trees to remain shall remain as existing to avoid disturbance of roots and avoid burying the roots under additional soil.
5. Trenching, excavation and soil disturbance within the drip line of vegetation to remain shall not be permitted except as specifically allowed by the Resident Engineer. It is the intent of the plans that the Contractor provides an alternate routing of irrigation, electrical and all trenching to avoid cutting through roots of existing trees.
6. Where it is necessary to excavate in close proximity to existing trees and shrubs, all possible caution shall be exercised to avoid injury to roots and trunks. In the event it is necessary to cut the roots of an existing tree to remain, the tree shall be pruned prior to excavation to reduce the foliage volume by the same percentage as the approximate percentage of roots removed. All work shall be performed under the direction of the Resident Engineer.
7. Excavation within the drip line of the trees shall be done by hand, tunneling under roots 1" in diameter and larger, and shall be done only on the approval of the Resident Engineer. The exposed roots of trees shall be covered and shaded by moist burlap or canvas until the trench is backfilled (See Section 308-4).

308-6.1.4.3 Maintenance of Trees To Remain During Construction. Trees to remain shall be maintained to promote the survival, good health and appearance of each individual tree. Maintenance shall include watering, fertilization, pest control pruning and other treatments, applications and other horticultural practices to promote the health of the tree. All maintenance shall be done under the direction of the Certified Arborist, retained by the City. The Contractor shall provide water for irrigation of the trees to remain throughout the construction period as needed to provide for the best health of the trees.

308-6.1.6 Root Barrier. To the City Supplement, ADD the following:

4. Materials shall be delivered and stored in accordance with Section 4 of the Standard Specifications. Avoid prolonged exposure to direct sunlight and high temperatures.
5. Material shall be handled in accordance with manufacturer's instructions.
6. Connect panels together to required length. The panels shall be laid in a continuous barrier without gaps. Panels shall be connected by means of a locking strip provided for this purpose by the root barrier manufacturer.

7. Install root barrier against edge of all paving adjacent to planting areas within 10' of tree trunks measured perpendicular to curb. A minimum 4" wide trench shall be excavated to the depth of root barrier. Insert barrier to bottom of trench and place it against the side of trench adjacent to concrete with the "ribs" or root guides faced toward the root ball. Top edge shall be 3" below grade of concrete structures.
8. Backfill, removing all adverse materials such as large rocks, severed roots, broken pipes, etc. Tamp soil gently and firmly into place as backfilling is accomplished to prevent soil settling. Avoid collapsing or distorting the barrier when backfilling.

308-7 **GUARANTEE.** To the City Supplement, DELETE in its entirety.

308-7 **Payment.** ADD the following:

Work related to tree maintenance shall be included in the Bid items as follows:

- Tree Trimming (EA)
- Root Pruning (EA)
- Root Barrier (EA)

The contract price shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved in furnishing and installing, modifying, or removing the systems, combinations or units thereof, as shown on the plans, as specified in these specifications and the special provisions, and as directed by the Engineer, including any necessary pull boxes (except when type required is shown as a separate contract item); excavation and backfill; concrete foundations (except when shown as a separate contract item); pedestrian barricades; restoring sidewalk, pavement and appurtenances damaged or destroyed during construction; salvaging existing materials; and making all required tests.

The contract price for piping includes the sleeving and all work necessary to trench per SDG-107 and restore AC pavement between medians required as shown on the plans or direct by the Resident Engineer.

Contractor to provide potable water at all cross-connection stations included high-line system. Contractor shall coordinate with City cross-connection inspector Tom Deeds (619-980-6794). Contractor shall provide three weeks notice prior to cross-connection test.

308-8 **PAYMENT.** To the City Supplement, DELETE in its entirety.

SECTION 310 - PAINTING

ADD:

310-5.4 **Staining Metal Guard Rails.**

310-5.4.1 **General.** This section specifies the method of staining galvanized surfaces which shall be used for staining all metal railing. Both sides of the metal beam guard rail surface shall be stained using the same method as described herein.

Contractor shall submit the following items:

1. A copy of the manufacturer's product sheet together with instructions for application of stain 3 weeks before application.
2. Proposed methods to control overspray spillage and protection of adjacent surfaces for approval by the Resident Engineer. No staining will be allowed prior to approval.
3. Independent lab tests that showing that the stain material is environmentally safe.
4. Written statement from manufacturer that product is in compliance with the Buy American Act.

Material used for this process shall be Natina Steel or approved equal.

Contractor shall provide minimum of 5years of warranty that the stain provided will not fade or peel off.

310-5.4.2

Application. To fully penetrate target surfaces, the stain shall be a soluble solution (never in powdered form).

The stain shall also contain organic acids to etch slightly into galvanized surfaces to create longer lasting results. Organic acids used shall have no negative effects on the environment. Other constituents shall include natural oxidizers and minerals that will accelerate the oxidization process without compromising the integrity of the galvanized surface itself. No pigment based colorants shall be added to achieve the desired color. The stain shall react on the galvanized surface over a period of 14 days to produce a dark brown color with a matte finish. The stain shall be resistant to fading in the sun.

The stain shall produce a brownish earth tone color that will blend stained surfaces with the surrounding timber guardrail colors in an environmentally friendly way. The spectrum of brown earth tone colors shall be such that alteration of the color and further color development after initial application can be accomplished.

Samples shall be prepared until it is determined by the Resident Engineer that the galvanized surface stain meets the requirements of the project. Samples shall meet the following minimum requirements:

1. Application rates and color tint shall be recorded for future use.
2. Color selection shall compliment the surrounding timber guardrail indicated by the Resident Engineer.

Final approval of product samples shall be made by the Resident Engineer.

Test plots may be required if prior sample was not submitted and approved. If required, apply stain to a 2 by 2 foot test plot, designated by the Resident Engineer. Notify the Resident Engineer no less than 5 working days prior to staining the test plot. Prepare and stain the test plot with the materials and tools, equipment and methods to be used in staining final surfaces. The Resident Engineer may order additional test plots until the specified color is obtained.

Use the test plot approved by the Resident Engineer as the standard of comparison in determining acceptability of staining.

Prior to applying stain the areas to be treated shall be identified and approved by the Resident Engineer. Remove oils, dirt or other contaminants, and dry surfaces prior to staining. The area to be stained shall be stained in accordance to the manufacturer's instructions to achieve a color consistent with the approved test area color. Control overspray and protect adjacent surfaces. Spray application should not be performed under windy or rainy conditions. Stain must be applied uniformly. Irregularities must be corrected according to manufacturer's recommendations. It is the contractor's responsibility to insure that stained surfaces are kept dry for a minimum of 7 days following the application of stain.

No work shall proceed until written approval is received.

310-5.4.3 Measurement and Payment. Staining metal guard railing will be measured by the linear foot.

The contract price paid for galvanized surface staining shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in galvanized surface staining, complete in place, including test plots, as shown on the plans, as specified, and as directed by the Resident Engineer.

SECTION 701 – WATER POLLUTION CONTROL

701-11 Post-Construction Requirements. To the City Supplement, second paragraph, ADD the following:

Comply with the following post-construction requirements:

Inlet Marker.

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 Notice of Exemption for Torrey Pines Roadway & Median Enhancements, Project No. 220356, as referenced in the Contract Appendix. You must comply with all requirements of the Notice of Exemption as set forth in the Contract Appendix.

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

Notice of Exemption

NOTICE OF EXEMPTION

(Check one or both)

TO: X RECORDER/COUNTY CLERK
P.O. BOX 1750, MS A-33
1600 PACIFIC HWY, ROOM 260
SAN DIEGO, CA 92101-2422

FROM: CITY OF SAN DIEGO
DEVELOPMENT SERVICES DEPARTMENT
1222 FIRST AVENUE, MS 501
SAN DIEGO, CA 92101

OFFICE OF PLANNING AND RESEARCH
1400 TENTH STREET, ROOM 121
SACRAMENTO, CA 95814

PROJECT NO.: 220356

PROJECT TITLE: North Torrey Pines Road Median Improvements

PROJECT LOCATION-SPECIFIC: The project is located within the center median of North Torrey Pines Road between Torrey Pines Science Park Road and Genesee Avenue all within the La Jolla Community Plan area.

PROJECT LOCATION-CITY/COUNTY: San Diego/San Diego

DESCRIPTION OF NATURE AND PURPOSE OF THE PROJECT: The project consists of new street markings/stripping, curb & gutter, guardrail and pedestrian ramp installation. The improvements would be located along a 1.4 mile stretch of North Torrey Pines Road and would require excavation of soil between 18-24 inches in depth. Other improvements would consist of landscaping of the median and installation of irrigation lines.

NAME OF PUBLIC AGENCY APPROVING PROJECT: City of San Diego

NAME OF PERSON OR AGENCY CARRYING OUT PROJECT: City of San Diego, Engineering and Capital Projects 600 B St, Ste 800 MS 908A, San Diego CA, 92101. Contact Louis Schultz 619-533-4668.

EXEMPT STATUS: (CHECK ONE)

- () MINISTERIAL (SEC. 21080(b)(1); 15268);
() DECLARED EMERGENCY (SEC. 21080(b)(3); 15269(a));
() EMERGENCY PROJECT (SEC. 21080(b)(4); 15269 (b)(c))
(X) CATEGORICAL EXEMPTIONS: 15301 (EXISTING FACILITIES)
() STATUTORY EXEMPTION:

REASONS WHY PROJECT IS EXEMPT: The City of San Diego conducted an Initial Study which determined that the project would qualify to be categorically exempt from CEQA pursuant to Section 15301 (Existing Facilities). CEQA Section 15301 allows for the repair and maintenance of existing highways, streets, sidewalks, gutters, bicycle and pedestrian trails. Several recorded historical/archaeological resources were identified in the southern 0.5 mile of the proposed project. Archaeological consultants were contracted to perform test excavations to determine if the project could potentially impact historical resources. The recovery of artifacts in the testing program was sparse and the archaeological test pits revealed that the soil within the meridian was disturbed from past construction of the road and surrounding development. Therefore, it was determined that the project would not impact historical resources and no other potential environmental impacts exist so therefore the project qualifies to be categorically exempt from CEQA and the exceptions listed in CEQA Section 15300.2 would not apply.

LEAD AGENCY CONTACT PERSON: JEFF SZYMANSKI

TELEPHONE: (619) 446-5324

IF FILED BY APPLICANT:

- 1. ATTACH CERTIFIED DOCUMENT OF EXEMPTION FINDING.
2. HAS A NOTICE OF EXEMPTION BEEN FILED BY THE PUBLIC AGENCY APPROVING THE PROJECT?
() YES () NO

IT IS HEREBY CERTIFIED THAT THE CITY OF SAN DIEGO HAS DETERMINED THE ABOVE ACTIVITY TO BE EXEMPT FROM CEQA

Signature of Jeff Szymanski, Associate Planner

January 25, 2012
DATE

CHECK ONE:

(X) SIGNED BY LEAD AGENCY

DATE RECEIVED FOR FILING WITH COUNTY CLERK OR OPR:

() SIGNED BY APPLICANT

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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- 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

CITY OF SAN DIEGO CALIFORNIA DEPARTMENT INSTRUCTIONS	NUMBER DI 55.27	DEPARTMENT Water Department
SUBJECT FIRE HYDRANT METER PROGRAM (FORMERLY: CONSTRUCTION METER PROGRAM)	PAGE 8 OF 10	EFFECTIVE DATE October 15, 2002
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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: Backflow 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

Sample City Invoice

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123						Contractor's Name:					
Project Name:						Contractor's Address:					
SAP No. (WBS/IO/CC)											
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 D

Location Map

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 SANDAG. This product may contain information reproduced with permission granted by RAND McNALLY & COMPANY to SANDAG. This map is copyrighted by RAND McNALLY & COMPANY. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without the prior, written permission of RAND McNALLY & COMPANY.



North Torrey Pines Roadway and Median Enhancement

SENIOR ENGINEER
 Brad Johnson
 619-533-5120

PROJECT MANAGER
 Louis Schultz
 619-533-4668



PROJECT ENGINEER
 Sabeen Cochinwala
 619-533-4610

Division Name - E&CP- ROWD



Legend:

S00868, North Torrey Pines Road and Callan Road



COMMUNITY NAME:
 University City

COUNCIL DISTRICT: 01

SAP ID: S-00868

APPENDIX E

Hazardous Labels/Forms

INCIDENT/RELEASE ASSESSMENT FORM ¹

If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

Questions for Incident Assessment:

	YES	NO
1. Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?	<input type="checkbox"/>	<input type="checkbox"/>
2. Did anyone, other than employees in the immediate area of the release, evacuate?	<input type="checkbox"/>	<input type="checkbox"/>
3. Did the release cause off-site damage to public or private property?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the release greater than or equal to a reportable quantity (RQ)?	<input type="checkbox"/>	<input type="checkbox"/>
5. Was there an uncontrolled or unpermitted release to the air?	<input type="checkbox"/>	<input type="checkbox"/>
6. Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?	<input type="checkbox"/>	<input type="checkbox"/>
8. Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?	<input type="checkbox"/>	<input type="checkbox"/>
10. Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?	<input type="checkbox"/>	<input type="checkbox"/>

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

Call 911 in an emergency

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a “no” response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

¹ This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

NON REPORTABLE RELEASE INCIDENT FORM

1. RELEASE AND RESPONSE DESCRIPTION

Incident # _____

Date/Time Discovered	Date/Time Discharge	Discharge Stopped <input type="checkbox"/> Yes <input type="checkbox"/> No
Incident Date / Time:		
Incident Business / Site Name:		
Incident Address:		
Other Locators (Bldg, Room, Oil Field, Lease, Well #, GIS)		
Please describe the incident and indicate specific causes and area affected. Photos Attached?: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Indicate actions to be taken to prevent similar releases from occurring in the future.		

2. ADMINISTRATIVE INFORMATION

Supervisor in charge at time of incident:	Phone:
Contact Person:	Phone:

3. CHEMICAL INFORMATION

Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Chemical	Quantity <input type="checkbox"/> GAL <input type="checkbox"/> LBS <input type="checkbox"/> FT ³
Clean-Up Procedures & Timeline:	
Completed By:	Phone:
Print Name:	Title:

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

A	BUSINESS NAME	FACILITY EMERGENCY CONTACT & PHONE NUMBER () -	
B	INCIDENT DATE MO DAY YR	TIME OES NOTIFIED (use 24 hr time)	OES CONTROL NO.
C	INCIDENT ADDRESS LOCATION	CITY / COMMUNITY	COUNTY ZIP
D	CHEMICAL OR TRADE NAME (print or type)		CAS Number
D	CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A <input type="checkbox"/>	CHECK IF RELEASE REQUIRES NOTIFICATION UNDER 42 U.S.C. Section 9603 (a) <input type="checkbox"/>	
D	PHYSICAL STATE CONTAINED <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS	PHYSICAL STATE RELEASED <input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input type="checkbox"/> GAS	QUANTITY RELEASED
D	ENVIRONMENTAL CONTAMINATION <input type="checkbox"/> AIR <input type="checkbox"/> WATER <input type="checkbox"/> GROUND <input type="checkbox"/> OTHER	TIME OF RELEASE	DURATION OF RELEASE — DAYS — HOURS — MINUTES
E	ACTIONS TAKEN		
F	KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information)		
	<input type="checkbox"/> ACUTE OR IMMEDIATE (explain) _____		
	<input type="checkbox"/> CHRONIC OR DELAYED (explain) _____		
	<input type="checkbox"/> NOTKNOWN (explain) _____		
G	ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS		
H	COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)		
I	CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information submitted and believe the submitted information is true, accurate, and complete.		
	REPORTING FACILITY REPRESENTATIVE (print or type) _____		
	SIGNATURE OF REPORTING FACILITY REPRESENTATIVE _____		DATE: _____

EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM INSTRUCTIONS

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO:

**State Emergency Response Commission (SERC)
Attn: Section 304 Reports
Hazardous Materials Unit
3650 Schriever Avenue
Mather, CA 95655**

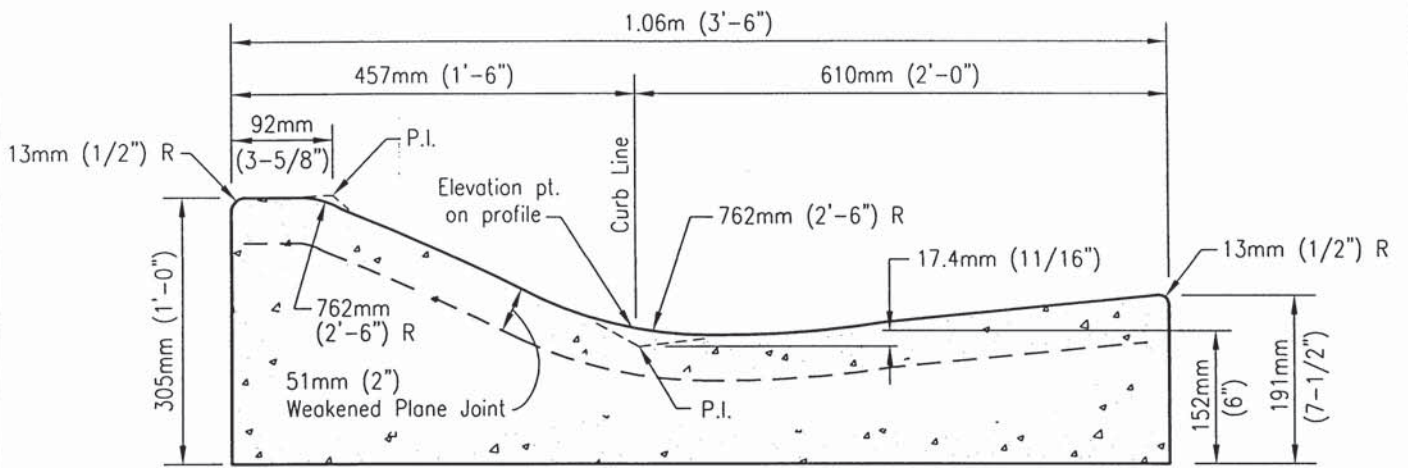
NOTE: Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

APPENDIX F

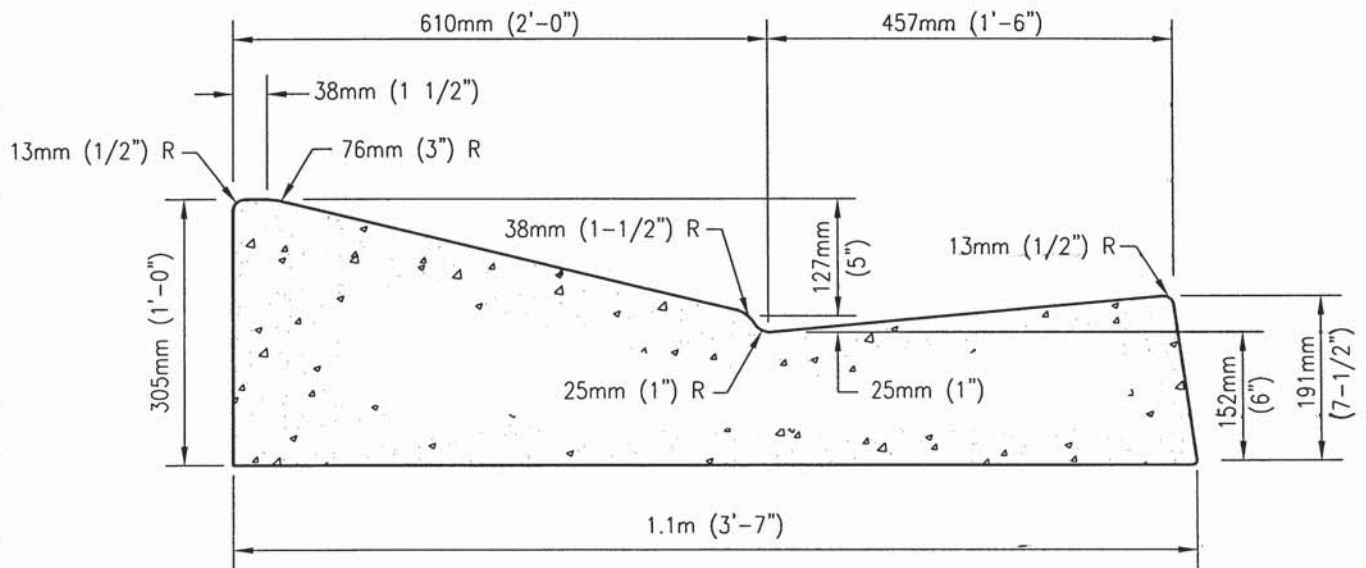
Arborist Report

Tree #	Tree Information			Tree Health			Planting Location			Defective Conditions			Maintenance Needs			Comments							
	Station #	Picture #	Code	DBH	G/F	P/D/C	guard rail	<3'	>3'	Lawns	Low CR	Weak Fork	Root Damage	Dead Wood	Cavity		Clean	Raise	Reduce	Consider Removal	Remove		
M1	52+94	1.2.3	EC	21	X																	General. All crowns extend over southbound traffic lanes	
M2	52+42	4.3.6	EC	29	X																		
M3	52+00	7.8.9	EC	35	X																		Psyllid damage
M4	51+54	10.11.12	EC	24	X																		By sd inlet, many large cuts, consider removal
M5	51+02	13.14.15	EC	18	X																		Subord to EUCs, by sd inlet
M6	50+92	16.17.18	AB	19	X																		Lcr below 50%, codominant
M7	50+71	19.20.21	EC	18	X																		Lcr below 50%, codominant
M8	50+59	22.23.24	EC	72	X																		Red both sides
M9	50+21	25.26.27.133.134	EC	14	X																		4.120/14" trunks, two trunk wounds
M10	50+03	28.29.30	EC	11	X																		2-11" trunks codom at base, 15degree lean
M11	49+64	31.32.33	EC	12	X																		Cut many limbs, just sucker branches
M12	49+04	34.35.36	EC	13	X																		Lcr below 50%, consider rem
M13	48+98	37.38.39.135	EC	11	X																		Cavity at base, below 50% ltr
M14	48+94	40.41.42	EC	7	X																		Codom, low ltr, dangerous crotch
M15	48+91	43.44.45	EC	8	X																		Below 50% ltr, lean, remove for design
M16	48+83	46.47.48	EC	10	X																		2 trunk 10.8.5" split, low ltr
M17	48+81	49.50.51.136	EC	8	X																		Sucker trunks, low ltr can't be reduced
M18	48+66	52.53.54	EC	14	X																		14.10.7" trks
M19	48+55	55.56.57.137	EC	13	X																		Decay at base, many decaying branch stubs
M20	47+71	58.59.60.138	EC	26	X																		Mound at base healed, other damage
M21	47+25	61.62.63.139	EC	23	X																		Mound at base healed, codom trk
M22	46+75	64.65.66.140-142	EC	24	X																		Decay at base from large wound, consider removal
M23	46+27	67.68.69	EC	24	X																		
M24	45+79	70.71.72	EC	19	X																		
M25	45+29	73.74.75.143-144	EC	32	X																		Decay, cork, rot, large trk wound
M26	44+83	76.77.78	EC	24	X																		
M27	44+33	79.80.81.145	EC	24	X																		Signs of decay, beehive grass lower trk
M28	43+85	82.83.84.146	EC	25	X																		Large wound/decay at base, consider removal
M29	43+08	85.86.87.147-148	EC	17	X																		17", 15" low branch, one trk splitting
M30	42+42	88.89.90	EC	22	X																		
M31	41+94	91.92.93.149-150	EC	32	X																		Mound at base & upper trk, callus formed
M32	41+04	94.95.96.151	EC	28	X																		Entire crown 45 deg lean, consider remove
M33	40+58	97.98.99.152	EC	32	X																		Trunk damage callus
M34	40+06	99.99.99.152	EC	18	X																		topped, poor form,
M35	40+04	100.101.102	EC	18	X																		
M36	39+67	103.104.105	EC	24	X																		
M37	39+59	103.104.105	EC	24	X																		24" trk fused to 18" trk
M38	39+11	106.107.108.154	EC	42	X																		Wound base trk formed callus
M39	38+63	109.110.111	EC	38	X																		
M40	38+27	112.113.114	EC	24	X																		
M41	37+89	115.116.117	PT	12	X																		Subordinate to EUCs
M42	37+67	118.119.120	EC	36	X																		
M43	37+22	121.122.123	EC	21	X																		Root damage, sparse, water vent adjacent, consider rem
M44	36+98	124.125.126	EC	14	X																		3 trk dead
M45	36+91	127.128.129	EC	14	X																		two trk dead
M46	36+82	130.131.132	EC	16	X																		4 trk, two dead, two declining

APPENDIX G
Standard Drawings



**TYPE A
CURB AREA**
(0.21 sq. m (2.23 sq. ft.))



**TYPE B
CURB AREA**
(0.23 sq. m (2.48 sq. ft.))

NOTES:

1. Transition to type G curb at all curb returns, except where sidewalk ramps are provided, and at all cul-de-sacs with drainage structures.
2. Concrete shall be 308kg/M³-C-17-MPa (520-C-2500).
3. See Standard Drawings G-9 and G-10 for joint details.

LEGEND ON PLANS

Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Reformatted		T. Stanton	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

CURB AND GUTTER - ROLLED

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

T. Stanton 3/01/2003

Chairperson R.C.E. 19246 Date

DRAWING NUMBER **G-4**

SEE SDG-100

SUPPLEMENT TO REGIONAL STANDARD DRAWING ("G" SERIES)

DRAWINGS G-1, G-2, G-3, G-4, G-6, G-7, G-11, G-12, G-13, G-14A, G-14B, G-14C, G-14D, G-28, G-29, G-30, & G-31

NOTES All Historical Stamps/Impressions (Street name, Contractor name, and/or date) shall be preserved per Standard Drawing SDG-115.

DRAWINGS G-3, G-7, G-11, G-14A, G-14B, G-14C, G-14D, G-26, G-27, G-28, G-29, G-30, & G-31

NOTES For designated urbanized communities, sidewalk design (scoring pattern, color, texture) to be in conformance with historic design on adjacent properties.

DRAWINGS G-3, G-7, G-11, G-14A, G-14B, G-14C, G-14D, G-27, G-28, G-29, G-30, & G-31

NOTES Sidewalk cross slope shall be 1.5%

DRAWING G-1

NOTES Amend Note 3 to read: "Sidewalk cross slope shall be 1.5%"

DRAWING G-2

NOTES Amend Note 3 to read: "Cross slope shall be 1.5%"

Add: 4. On the high side of superelevated curves the gutter shall be sloped to match cross-section grade of the roadway (see SDDS-105).

Add: 5. Place expansion joints at curb returns, adjacent to structures and at no greater than forty-five foot (45') intervals.

Add: 6. Place weakened plane joints at driveways and at fifteen (15') foot intervals from P. C. R. 's.

SHT. 1 OF 3

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE <i>PL</i> Chairperson RCE 64572 Date 12-9-03
ORIGINAL		M. V. Rollinger	5-20-92		
NOTES		G. Parkinson	2-07-95		
NOTES	SM	Oskoui	12-09-03		
				SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ("G" SERIES)	DRAWING NUMBER SDG-100

SUPPLEMENT TO REGIONAL STANDARD DRAWING ("G" SERIES) cont.

DRAWING G-4

NOTES Add: 4. Sidewalk under drains shall not be allowed.

DRAWING G-7

NOTES Add: 3. Sidewalk shall have a minimum clear width of four feet (4') from any obstruction.

DRAWING G-9

NOTES For designated urbanized communities, sidewalk scoring (grooves) pattern to be in conformance with historic design on adjacent properties.

DRAWING G-12

SECTION A-A Delete notation, "Base material as shown on plans."

DRAWING G-13


CROSS SECTION Delete notation, "Base material as shown on plans."

DRAWINGS G-14A, G-14B

PLAN Add notation at property line, "Place one-quarter inch (1/4") Expansion Joint Filler Material."

NOTES Amend note 4 to read: "Driveway shall be a continuous pour from back of Curb to Property Line."
 Add: 6 Meter boxes shall not be located within driveway – see W-15.
 Add: 7 Driveway in excess of 150 feet in length from curb face shall require minimum of 7 inch P.C.C.

SHT. 2 OF 3

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ("G" SERIES)	CITY OF SAN DIEGO STANDARDS COMMITTEE  Chairperson RCE 64572 12-9-03 Date
ORIGINAL		M. V. Rollinger	5-20-92		
NOTES		G. Parkinson	2-07-95		
NOTES	SM	Oskoui	12-09-03		
					DRAWING NUMBER SDG-100

SUPPLEMENT TO REGIONAL STANDARD DRAWING ("G" SERIES) cont.

DRAWINGS G-14C, G-14D

NOTES Add: 6 Meter boxes shall not be located within driveway – see W-15.

DRAWING G-17

NOTES Add: 6. Construction of Alley Apron includes the adjacent six-inch (6") curb.
 Add: 7. Refer to G-31 for pedestrian ramps.

DRAWING G-31

NOTES Add: 3. Where curb height affected by construction varies, the ramp length (Y) shall be governed by the highest curb height (X). The side slope (Z) shall be governed by the curb height on the respective side.

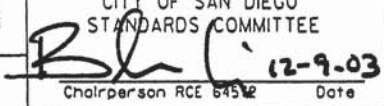
DRAWING G-32

NOTES Add: 7. For Federally funded projects (new constructions and alterations), the lower end of the 48-inch width of the ramp shall be flush and free of abrupt changes between the bottom of the ramp and the street pavement.

DRAWINGS G-27, G-28, G-29, G-30, & G-31

NOTES Do NOT use tables.

SHT. 3 OF 3

Revision	By	Approved	Date	CITY OF SAN DIEGO - STANDARD DRAWING	CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL		M. V. Rollinger	5-20-92			 Chairperson RCE 6452 Date 12-9-03
NOTES		G. Parkinson	2-07-95			
NOTES	SM	Oskoui	12-09-03			
				SUPPLEMENTAL TO REGIONAL STANDARD DRAWING ("G" SERIES)	DRAWING NUMBER SDG-100	

APPENDIX H

Caltrans Metal Beam Guardrail Terminal Systems CAT, SRT, and SFT

NOTES:

- For additional details of Terminal System (Type CAT), refer to the manufacturer's installation instructions.
- Terminal System (Type CAT) to be used only in locations where there will be traffic on one side of the terminal system. For those locations where traffic would be on both sides of the CAT system, see Standard Plan A782A1.
- The Terminal System Backup is required for all Terminal System (Type CAT) installations. This allows the slotted rail elements to slide over the face of the unslotted rail elements.
- For length and type of metal beam guard railing or metal barrier railing the terminal system is attached to, see Project Plans. For typical use of this terminal system with guard railing, see the A77E, A77F and A77G series of Standard Plans.
- Both of the 0.135" thick slotted rail elements have an attachment plate welded to the back side of one end of each rail element. Attach the welded plate end of the rail elements to Post No.4 prior to splicing the 0.105" thick slotted rail element over the 0.135" thick slotted rail element.
- The 0.105" thick slotted rail elements have four 3/4" diameter holes near one end of the rail elements for the attachment of the spacer channel. Attach this end of the rail elements to Post No.2.
- For details of the anchor plate and 3/4" cable attached to Post No. 6, see Standard Plan A77H1.

- Attach steel soil plate to steel foundation tube with 5/8" x 7/16" hex head bolts with hex nuts (3/8" holes in plate and in two sides of tube to accommodate hex bolts).
- The 6" x 8" knockout tube is to be located 4" down from top of wood post. Attach the knockout tube to the post with two 3/8" diameter lag screws and flat washers.
- Attach strut to Post Nos.1 and 2 foundation tubes with 5/8" diameter hex head bolts, washers, and hex nuts. Bolts extend through the strut, steel foundation tube, and wood posts.
- Do not attach the rail elements to Post Nos.3, 5 and 6.
- Yellow retroreflective sheeting, as provided by the Terminal System (Type CAT) manufacturer, shall be adhered to the rounded end of nose plate. The sheeting shall be consistent with the design pattern and colors of a Type P object marker panel. The sheeting shall be positioned on the end of nose plate so that it is visible to approaching traffic.
- A 6'-0" length steel foundation tube, TS 8 x 6 x 3/8, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 3/8" diameter hex head bolt and nut shall be installed in the hole in 6'-0" length tube to keep the wood post from dropping into the tube.

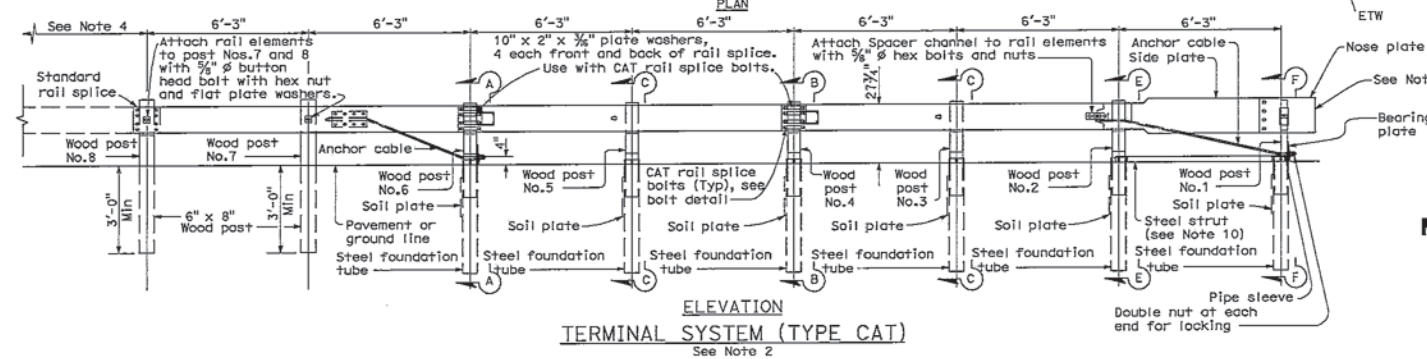
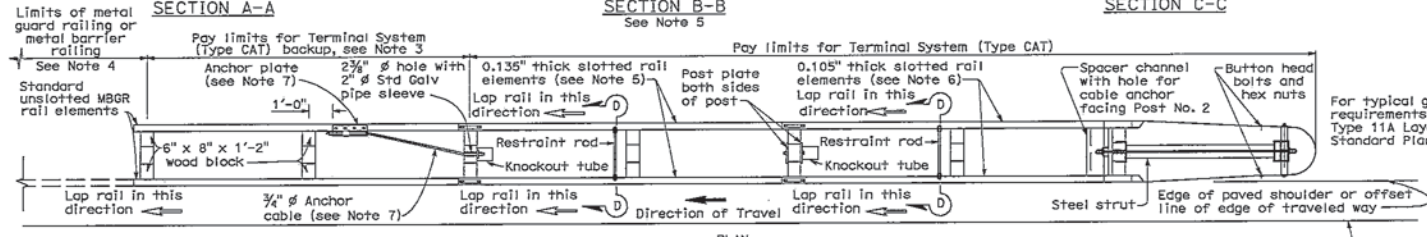
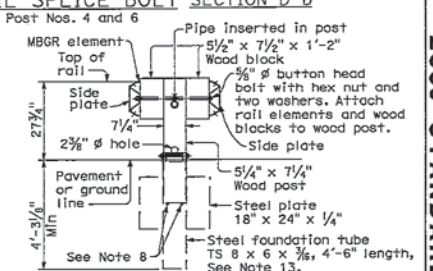
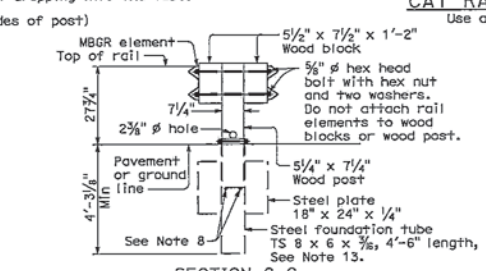
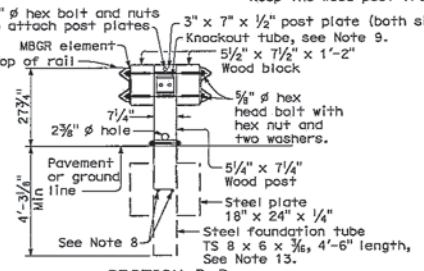
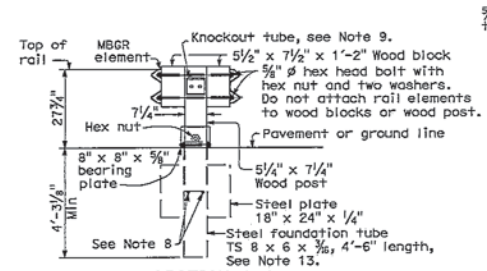
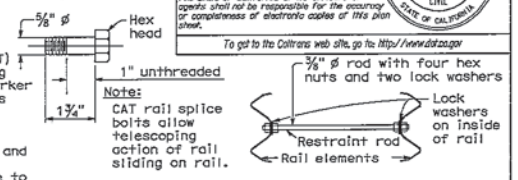
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

Randell D. Niitt
REGISTERED CIVIL ENGINEER
No. C50200
Exp. 6-30-07
STATE OF CALIFORNIA

May 1, 2006
PLANS APPROVAL DATE

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STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**METAL BEAM RAILING
TERMINAL SYSTEM
(TYPE CAT)**
NO SCALE

A77L4

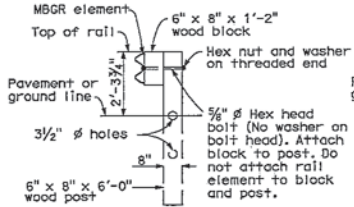
2006 STANDARD PLAN A77L4

81

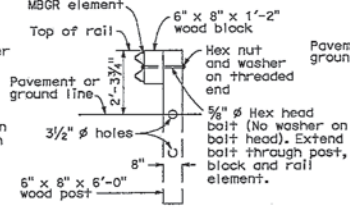
TABLE A
POST OFFSET DIMENSIONS

Post No.	3'-0" System End Offset	3'-6" System End Offset
1	36"	42"
2	22 1/4"	27 3/4"
3	11 1/4"	16 1/4"
4	6 3/4"	10 3/4"
5	3"	6"
6	3/4"	2 1/4"
7	0"	3/4"
8	0"	0"

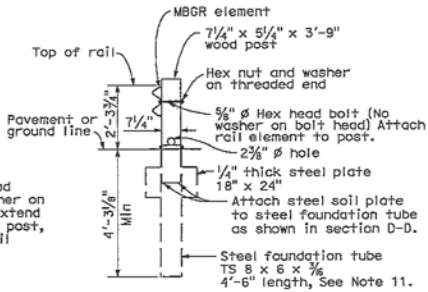
See Note 12



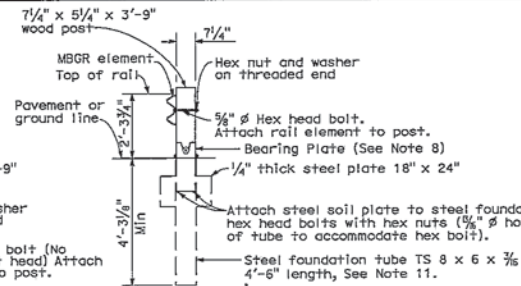
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D
(Terminal Section not shown)

NOTES:

- For additional details of Terminal System (Type SRT), refer to the manufacturer's installation instructions.
- The post offset dimensions are given to the center of the traffic face of the block, except at the first two posts, where the dimension is to the center of the traffic face of the post. Offset points are to be located by chord measurements at the back of the rail equal to the nominal post spacings shown. Posts are to be set approximately radial to the railing at each post locations.
- Do not attach rail elements to posts 7 and 8.
- Attach strut to Post Nos. 1 and 2 foundation tubes with 5/8 diameter hex head bolts, washers and hex nuts. Bolts extend through the strut, steel foundation tube, and wood posts.
- For the length and type of metal beam guard railing or metal barrier railing the terminal system is attached to, see the Project Plans.
- Attach rail element to this post and block. Payment for this post, block and hardware is included in payment for the type of railing or barrier the terminal system is attached to, not part of payment for Terminal System (Type SRT).
- The deflector angle of the slot guard is to be positioned immediately downstream of the slots.
- For bearing plate orientation, refer to the manufacturer's installation instructions.
- For typical use of this terminal system with guard railing, see the A77E, A77F and A77G Series of Standard Plans. See Standard Plan A78E for typical use of this terminal system with single triple beam barrier.
- A complete wrap around end section may continue to be used in existing installations. New installations shall be constructed with the 3/4 wrap end section shown.
- A 6'-0" length steel foundation tube, TS 8 x 6 x 3/8 without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8 diameter hex head bolt and nut shall be installed in the hole in 6'-0" length tube to keep the wood post from dropping into the tube.
- Where site conditions will not accommodate use of the standard 4'-0" system end offset, 3'-6" or 3'-0" system end offsets, as applicable, may be used. See Table A for post offset dimensions for 3'-6" and 3'-0" system end offsets.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

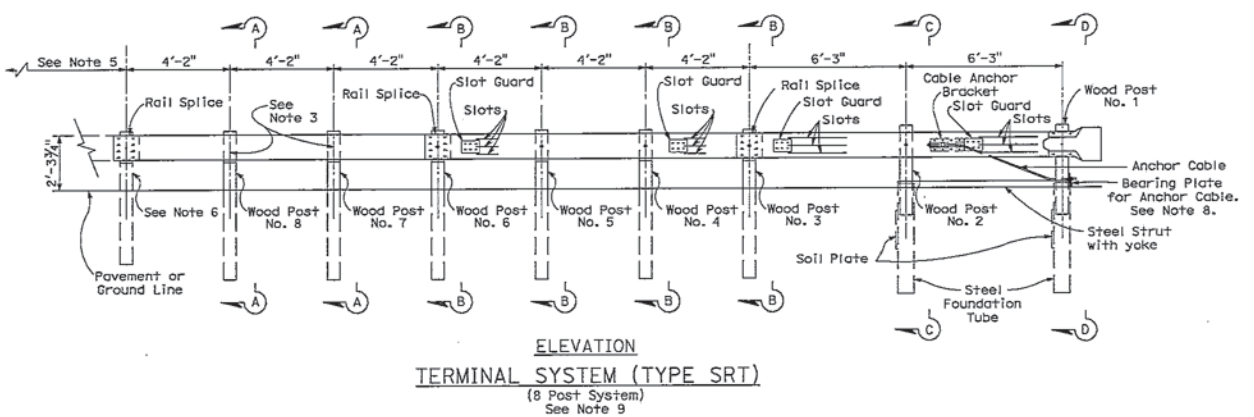
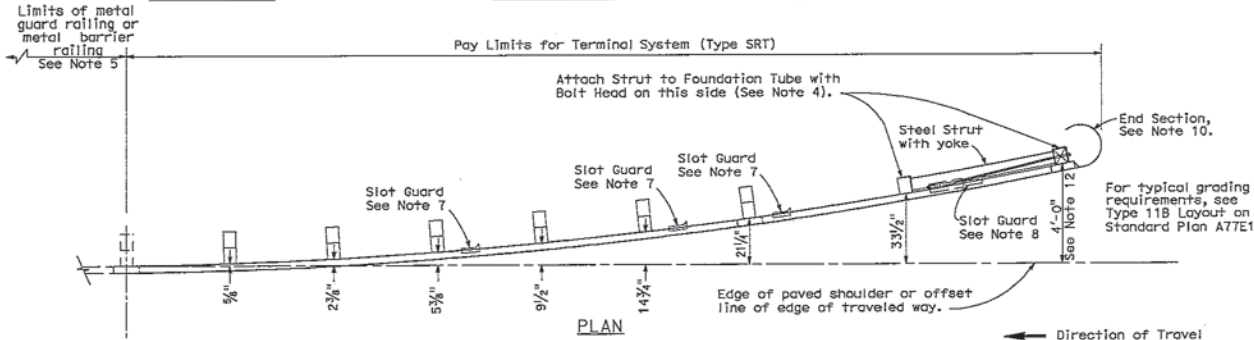
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 1, 2006
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
No. C50209
Exp. 6-30-07
CIVIL
STATE OF CALIFORNIA



TERMINAL SYSTEM (TYPE SRT)
(8 Post System)
See Note 9

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**METAL BEAM RAILING
TERMINAL SYSTEM
(TYPE SRT)**

NO SCALE

A77L1

2006 STANDARD PLAN A77L1

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

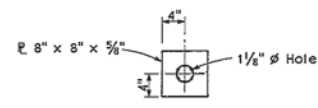
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

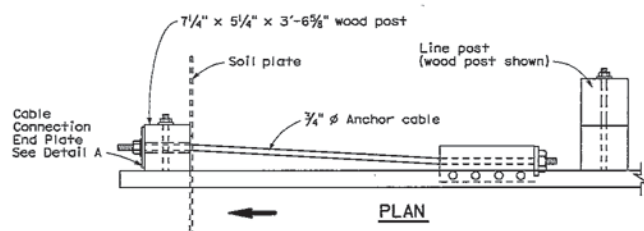
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

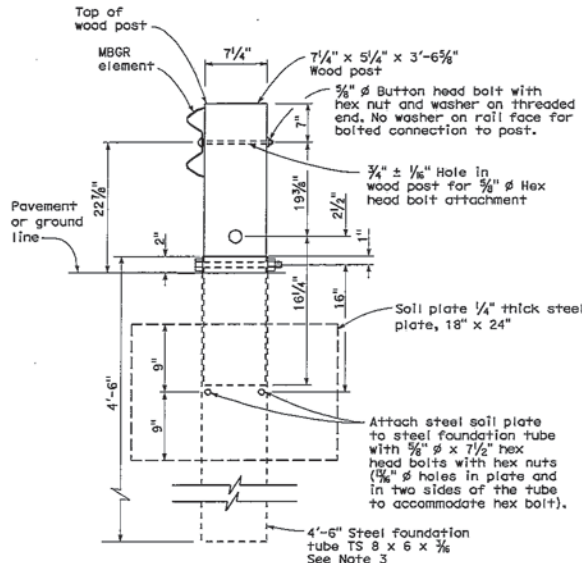
To accompany plans dated _____



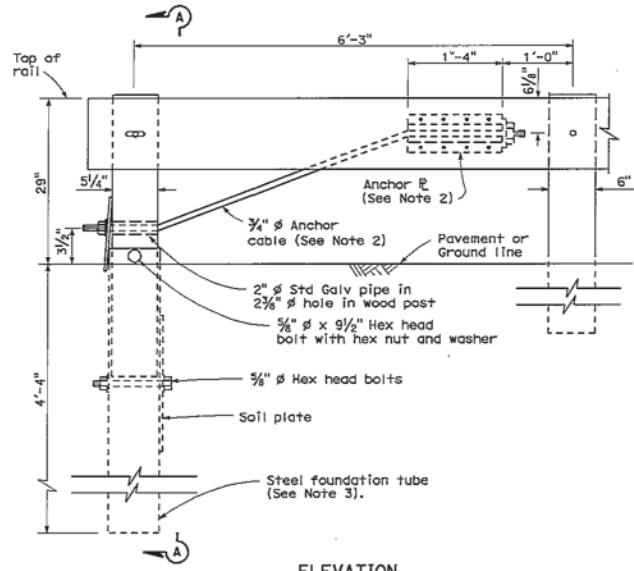
DETAIL A
CABLE CONNECTION
END PLATE



PLAN



SECTION A-A



ELEVATION
END ANCHOR
ASSEMBLY (TYPE SFT)
See Note 1

NOTES:

1. See the A77E, A77F and A77G series of Standard Plans for typical use of End Anchor Assembly (Type SFT).
2. For details of the anchor plate and 3/4" cable, see Standard Plan A77H3.
3. A 6'-0" length steel foundation tube, TS 8 x 6 x 3/8, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8" diameter hex head bolt and nut shall be installed in the hole in the 6'-0" length tube to keep the wood post from dropping into the tube.
4. Direction of traffic indicated by →.
5. Install line post, steel foundation tube and soil plate in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
METAL RAILING
END ANCHOR ASSEMBLY
(TYPE SFT)
NO SCALE

RSP A77H1 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77H1 DATED MAY 1, 2006 - PAGE 67 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77H1

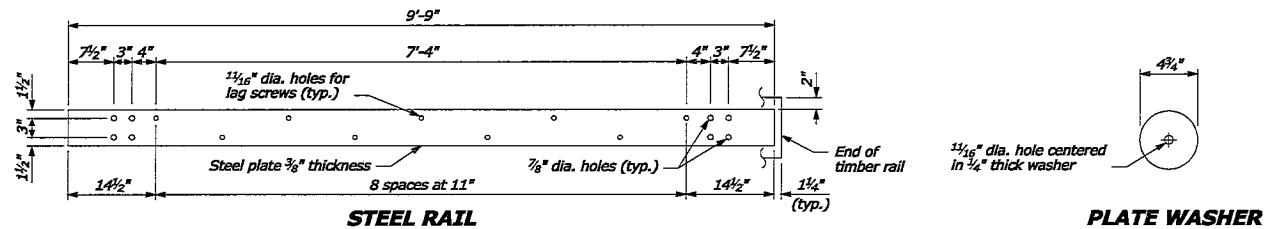
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2006 REVISED STANDARD PLAN RSP A77H1

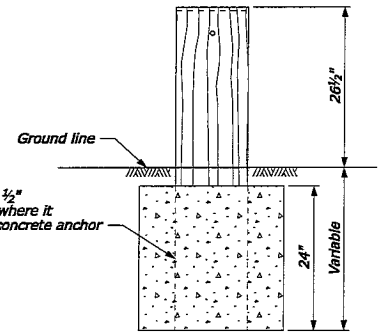
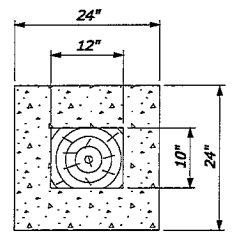
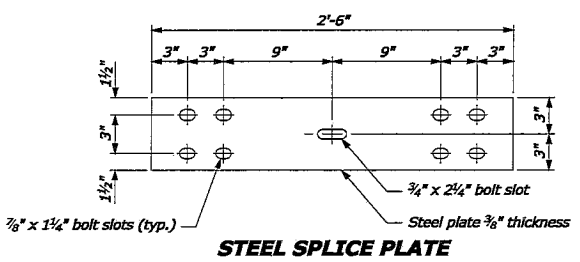
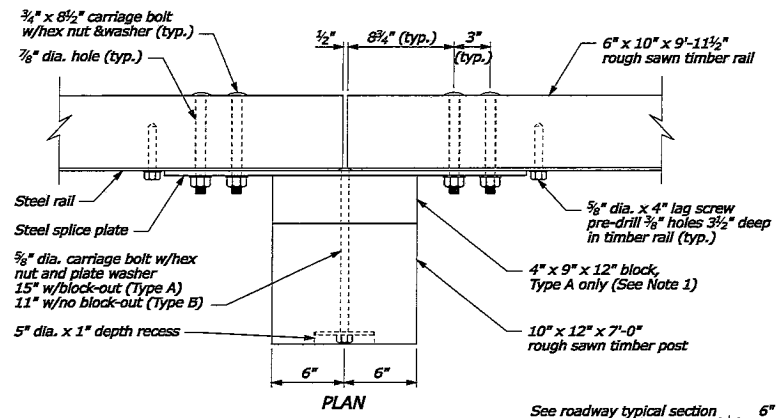
APPENDIX I

US DOT Steel-Backed Timber Guardrail

STATE	PROJECT	SHEET NUMBER
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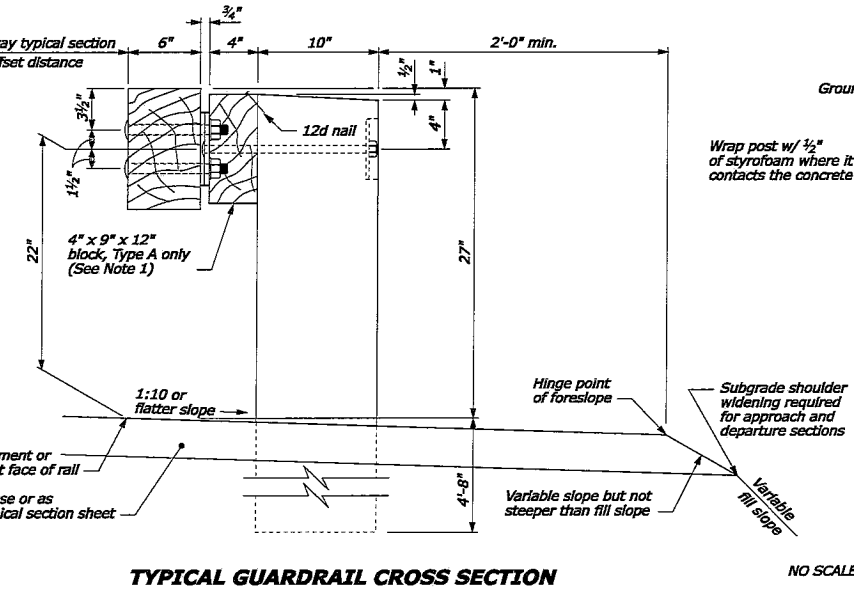
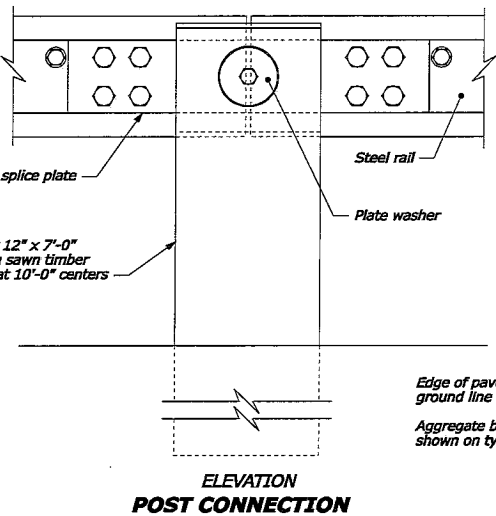
- NOTE:**
1. Use the Type A, blocked-out, system or the Type B, non-blocked-out, system as specified in the plans.
 2. Use weathering steel for all structural steel and fastener hardware as specified.
 3. Place a terminal section (See Standards 617-61 and 617-62) on both approach and trailing ends of barrier installations.



24" dia. round anchor is an acceptable alternative. Reduced size acceptable in solid rock.

CONCRETE ANCHOR FOR SHORT GUARDRAIL POST

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
U.S. CUSTOMARY STANDARD	
STEEL-BACKED TIMBER GUARDRAIL TYPE A & TYPE B	
STANDARD APPROVED FOR USE 3/1990	STANDARD
REVISED: 4/1994 9/2005	617-60



NO SCALE

20-Sep-2007 08:42 AM P:\Dawson\MS3740.dwg [UP Customer]



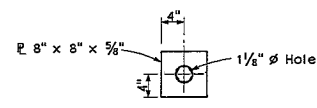
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET TOTAL SHEETS

Rendell D. Niatt
REGISTERED CIVIL ENGINEER

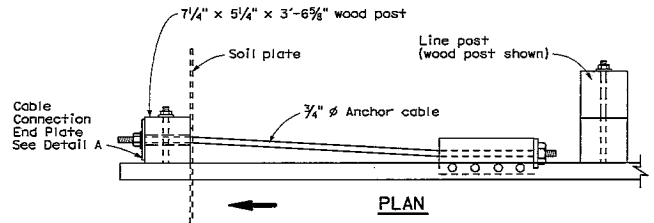
May 20, 2011
PLANS APPROVAL DATE

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To accompany plans dated _____



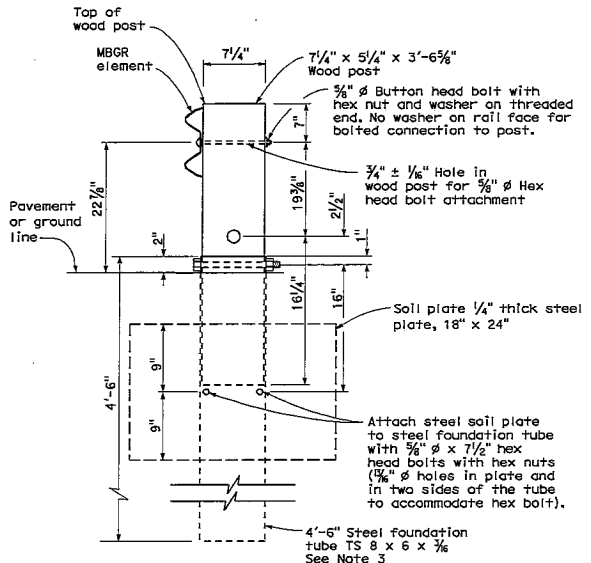
DETAIL A
CABLE CONNECTION
END PLATE



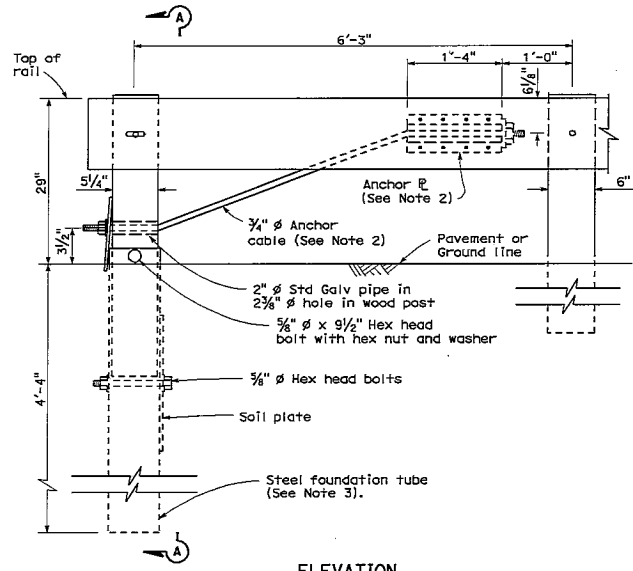
PLAN

NOTES:

1. See the A77E, A77F and A77G series of Standard Plans for typical use of End Anchor Assembly (Type SFT).
2. For details of the anchor plate and 3/4" cable, see Standard Plan A77H3.
3. A 6'-0" length steel foundation tube, TS 8 x 6 x 3/8, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8" diameter hex head bolt and nut shall be installed in the hole in the 6'-0" length tube to keep the wood post from dropping into the tube.
4. Direction of traffic indicated by →.
5. Install line post, steel foundation tube and soil plate in soil.



SECTION A-A



ELEVATION
END ANCHOR
ASSEMBLY (TYPE SFT)
See Note 1

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

METAL RAILING
END ANCHOR ASSEMBLY
(TYPE SFT)

NO SCALE

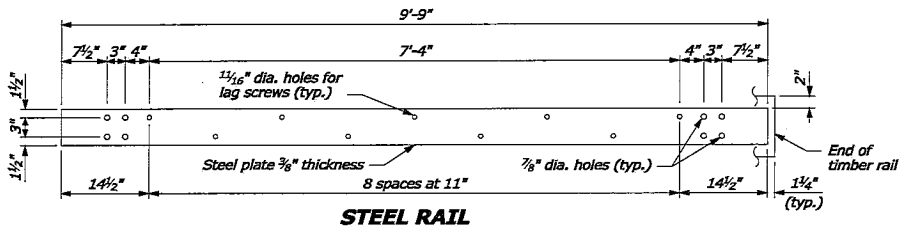
RSP A77H1 DATED MAY 20, 2011 SUPERSEDES STANDARD PLAN A77H1
DATED MAY 1, 2006 - PAGE 67 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77H1

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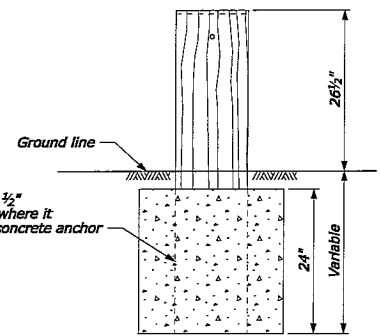
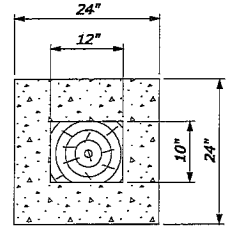
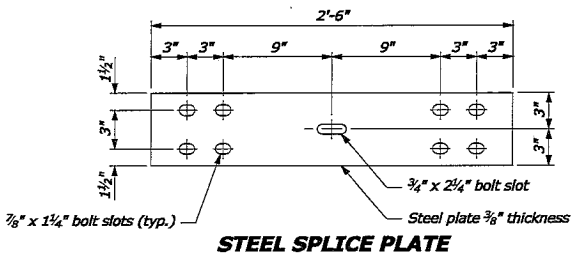
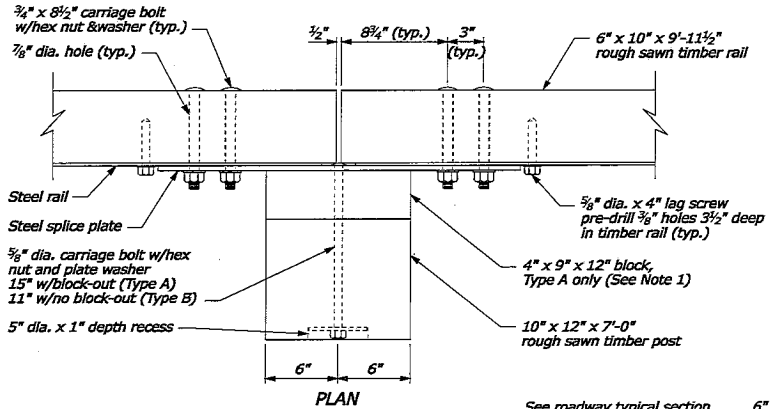
2006 REVISED STANDARD PLAN RSP A77H1

STATE	PROJECT	SHEET NUMBER
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NOTE:

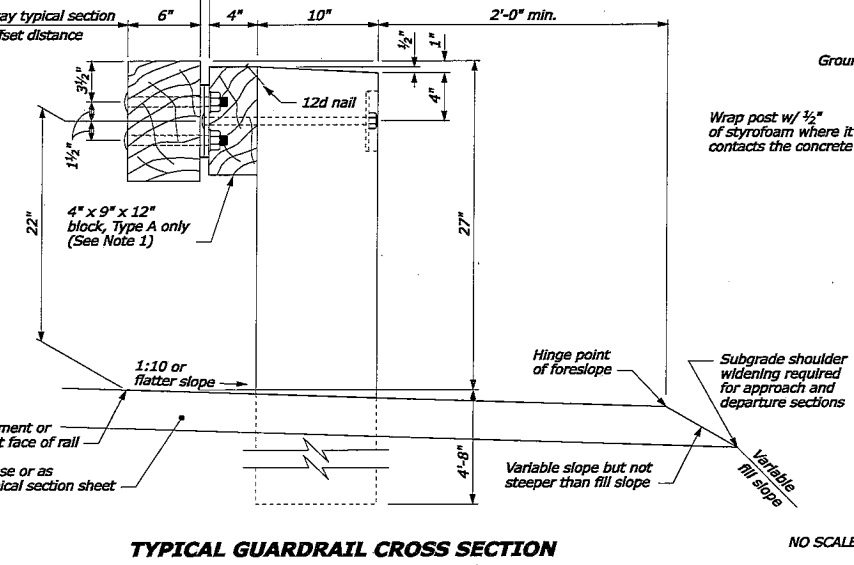
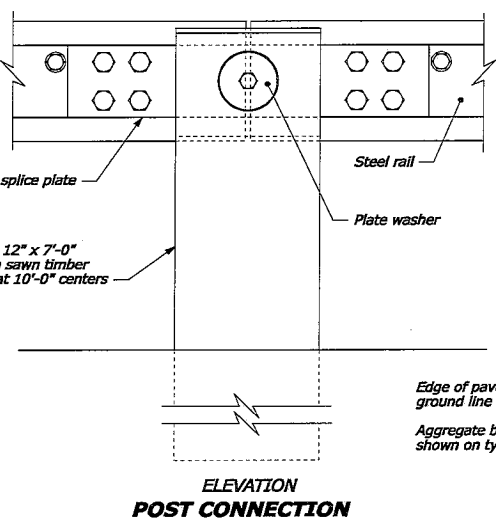
1. Use the Type A, blocked-out, system or the Type B, non-blocked-out, system as specified in the plans.
2. Use weathering steel for all structural steel and fastener hardware as specified.
3. Place a terminal section (See Standards 617-61 and 617-62) on both approach and trailing ends of barrier installations.



24" dia. round anchor is an acceptable alternative. Reduced size acceptable in solid rock.

CONCRETE ANCHOR FOR SHORT GUARDRAIL POST

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
U.S. CUSTOMARY STANDARD	
STEEL-BACKED TIMBER GUARDRAIL TYPE A & TYPE B	
STANDARD APPROVED FOR USE 3/1990	STANDARD
REVISED: 4/1994 6/2005	617-60



NO SCALE

20-sep-2007 06:42 AM F:\standrev\61760.dgn [US Customary]

City of San Diego

CITY CONTACT: Clementina Giordano, Contract Specialist, Email: cgiordano@saniego.gov

Phone No. 619-533-3481, Fax No. 619-533-3633



ADDENDUM "A"

FOR

NORTH TORREY PINES ROADWAY & MEDIAN ENHANCEMENTS

BID NO.:	K-14-5606-DBB-3
SAP NO. (WBS/IO/CC):	S-00868
CLIENT DEPARTMENT:	2116
COUNCIL DISTRICT:	1
PROJECT TYPE:	IK/IG

BID DUE DATE:

2:00 PM

OCTOBER 23, 2013

CITY OF SAN DIEGO

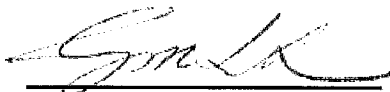
PUBLIC WORKS CONTRACTING GROUP

1010 SECOND AVENUE, SUITE 1400, 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 and Registered Landscape Architect:


1) Registered Engineer

10/18/2013
Date

Seal:





2) Register Landscape Architect

10/17/2013
Date

Seal:




3) For City Engineer

10/18/2013
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.

B. VOLUME 2

1. To the Bidding Documents, Proposal (Bid), Pages 11 through 16, **DELETE** in their entirety and **SUBSTITUTE** with pages 4 of 9 through 9 of 9 of this Addendum.

Tony Heinrichs, Director
Public Works Department

Dated: *October 18, 2013*
San Diego, California

TH/AR/egz

BIDDING DOCUMENTS

PROPOSAL (BID)

The Bidder agrees to the construction of **North Torrey Pines Roadway & Median Enhancements**, 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 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	237110	7-10.2.6	Traffic Control	 	\$
3.	1	AL	237110	9-3.1	2" Recycled Water Meter Capacity Charge Fee - Type I	 	\$73,128.00
4.	1	AL	237110	9-3.1	Install 2" Water Tap (Installed by City Forces and Paid by Contractor) - Type I	 	\$762.00
5.	1	AL	237110	9-3.1	Install 2" Recycled Water Meter (Installed by City Forces and Paid by the Contractor) - Type I	 	\$1,026.00
6.	1	AL	237110	9-3.1	Cross Connection Test Station Fee - Type I	 	\$2,340.00
7.	1	AL		9-3.5	Field Orders - Type II	 	\$45,000.00
8.	1	LS	238910	300-1.4	Clearing & Grubbing	 	\$
9.	115	CY	237310	300-2.9	Unclassified Excavation	\$	\$
10.	900	TN	237310	302-5.9	AC Paving	\$	\$
11.	1	EA	237110	303-1.11	Modified Curb Inlet (Type B-1) and Concrete Culvert	\$	\$
12.	7	EA	237110	303-1.11	Reverse Curb Outlet	\$	\$
13.	1	EA	237310	303-1.11	Replace Existing SD Grate Inlet with Type I Inlet	\$	\$
14.	160	SF	238110	303-4.1.5	Retaining Wall - Gravity	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
15.	8,978	LF	237310	303-5.9	6" Curb & Gutter (Type B-2)	\$	\$
16.	2,000	LF	237310	303-5.9	6" Curb & Gutter (Type G)	\$	\$
17.	290	LF	237310	303-5.9	Curb & Gutter (6" Rolled Curb, Type A)	\$	\$
18.	400	SF	237310	303-5.9	Sidewalk	\$	\$
19.	1,150	SF	237310	303-5.9	Sidewalk (4.5' Wide)	\$	\$
20.	3,650	SF	237310	303-5.9	Sidewalk (5' Wide)	\$	\$
21.	500	SF	237310	303-5.9	Remove and Replace Existing Sidewalk (5' wide)	\$	\$
22.	1	EA	237310	303-5.10.2	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$	\$
23.	1	EA	237310	303-5.10.2	Curb Ramp Type A w/ Stainless Steel Detectable Warning Tiles	\$	\$
24.	3	EA	237310	303-5.10.2	Curb Ramp Type C1 w/ Stainless Steel Detectable Warning Tiles	\$	\$
25.	2	EA	237310	303-5.10.2	Curb Ramp Type D w/ Stainless Steel Detectable Warning Tiles	\$	\$
26.	1,785	SF	237310	303-8.9	Maintenance Pads (Pervious Concrete)	\$	\$
27.	1,460	LF	237310	304-2.3.2	Metal Beam Guardrail and Terminal System	\$	\$
28.	1	LS	237310	304-5	Signing	 	\$
29.	3,950	LF	237310	305-2.7.3	Steel Backed Timber Guardrail	\$	\$
30.	80	LF	237310	305-2.7.2	Extra Steel Backed Timber Guardrail	\$	\$
31.	3	EA	237110	306-14.1	2" Water Service	\$	\$
32.	2	EA	238210	307-2	Adjusting Traffic Signal Pole Box Elevation to New Sidewalk Elevation	\$	\$
33.	1	EA	238210	307-2	Relocate Existing Streetlight	\$	\$
34.	1	LS	561730	308-7	90 Day Plant Maintenance Establishment	 	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
35.	13	EA	561730	308-7	Existing Tree Removal and Replace with Torrey Pines	\$	\$
36.	220,000	SF	561730	308-7	Soil Prep. and Weed Abatement, Fine Grading Shrub	\$	\$
37.	1	LS	561730	308-7	Perform Agricultural Soils Test and Percolation Tests	X	\$
38.	75	EA	561730	308-7	Planting - Trees 24" Box, Installed	\$	\$
39.	7,520	EA	561730	308-7	Planting - Shrubs - 1 Gal, Installed	\$	\$
40.	53,000	SF	561730	308-7	Planting - Flats - 24" O.C., Installed	\$	\$
41.	2,000	CY	561730	308-7	3" Bark Mulch	\$	\$
42.	1,620	LF	561730	308-7	Root Barrier, 24" Deep, Installed	\$	\$
43.	197	EA	561730	308-7	Prune Existing Trees	\$	\$
44.	3	EA	561730	308-7	Construct Irrigation Controller Assembly on Concrete Pad with Rain Sensor	\$	\$
45.	3	EA	561730	308-7	1 1/2" Pressure Regulator	\$	\$
46.	3	EA	561730	308-7	1 1/2" Flow Sensor	\$	\$
47.	3	EA	561730	308-7	2" Master Valve	\$	\$
48.	79	EA	561730	308-7	1" Globe Valve w/ Valve Box	\$	\$
49.	14	EA	561730	308-7	1 1/2" Globe Valve w/ Valve Box	\$	\$
50.	11	EA	561730	308-7	3" Globe Valve w/ Valve Box	\$	\$
51.	53	EA	561730	308-7	1" Quick Coupler w/ Valve Box	\$	\$
52.	50	EA	561730	308-7	1" RCV w/ Valve Box	\$	\$
53.	20	EA	561730	308-7	1 1/2" RCV w/ Valve Box	\$	\$
54.	1,550	LF	561730	308-7	Class 315 PVC Pipe Mainline - 2"	\$	\$
55.	8,400	LF	561730	308-7	Class 315 PVC Pipe Mainline - 3"	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
56.	25,000	LF	561730	308-7	Schedule 40 PVC Pipe Non-Pressure 3/4 - 1-1/2"	\$	\$
57.	800	LF	561730	308-7	Schedule 40 PVC Pipe Sleeving - 6"	\$	\$
58.	800	LF	561730	308-7	Irrigation Low Voltage Wire Sleeves - 2"	\$	\$
59.	22	EA	561730	308-7	Pull Boxes	\$	\$
60.	12,000	LF	561730	308-7	Irrigation Low Voltage Wiring	\$	\$
61.	800	LF	561730	308-7	Irrigation Sleeve Trenching, Compaction & Street Repair	\$	\$
62.	5	EA	561730	308-7	Cross Connection Test Station	\$	\$
63.	25	EA	561730	308-7	'Do Not Drink' Sign, Installed	\$	\$
64.	1,140	EA	561730	308-7	MP Rotator Pop-up Spray Head	\$	\$
65.	150	EA	561730	308-7	Rainbird Tree Bubbler Assembly	\$	\$
66.	75	EA	561730	308-7	Tree Drainage Assembly Per New Tree	\$	\$
67.	2	EA	561730	308-7	Meter Pedestal	\$	\$
68.	2	EA	561730	308-7	Meter Pedestal Concrete Base	\$	\$
69.	2	EA	561730	308-7	Grounding Rod	\$	\$
70.	2	EA	561730	308-7	Grounding Rod Lug	\$	\$
71.	6	LF	561730	308-7	#6 THWN CU	\$	\$
72.	100	LF	561730	308-7	Trench and Backfill	\$	\$
73.	80	LF	561730	308-7	Concrete Repair	\$	\$
74.	100	LF	561730	308-7	3" PVC Sch 40 Conduit	\$	\$
75.	4	EA	561730	308-7	3" PVC Sch 40 ELL	\$	\$
76.	250	LF	561730	308-7	3/4" PVC Sch 40 Conduit	\$	\$
77.	6	EA	561730	308-7	3/4" PVC Sch 40 ELL	\$	\$

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
78.	800	LF	561730	308-7	#12 THWN CU	\$	\$	
79.	1,460	LF	237310	310-5.4	Galvanized Surface Staining for MBGR (Double Sided)	\$	\$	
80.	8,700	LF	237310	314-4.3.7	Striping and Pavement Markings	\$	\$	
81.	250	LF	237310	311-1.1	Visqueen Liner (10 Mil Thick Minimum) and Installation Including Excavation As Necessary	\$	\$	
82.	1	LS	541330	701-13.8.5	Water Pollution Control Program Development	 	\$	
83.	1	LS	237990	701-13.8.5	Water Pollution Control Program Implementation	 	\$	
ESTIMATED TOTAL BASE BID:							\$	

TOTAL BID PRICE FOR BID (Items 1 through 83 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: _____

The names of all persons interested in the foregoing proposal as principals are as follows:

BIDDING DOCUMENTS

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: _____

NOTES:

- A. The City will 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 shall 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.



THE CITY OF SAN DIEGO

Public Works
Construction Contracting
1010 Second Avenue, Suite 1400
San Diego, CA 92101
(619) 533-3450

FAX TRANSMITTAL

Date: October 28, 2013

The following (6) total pages (including this cover page) are intended for:

To:	<u>Estimator</u>	From:	<u>Claudia Abarca</u>
Company	<u>Palm Engineering</u>	Division:	<u>PWCG</u>
Phone #	<u>(619) 291-1495</u>	FAX #	<u>(619) 533-3633</u>
FAX #	<u>(619) 291-0482</u>	Phone #	<u>(619) 533-3439</u>
Re:	<u>K-14-5606-DBB-3 - North Torrey Pines Roadway & Median Enhancements</u>		

COMMENTS: In tabulating the bid results of subject project, we have found that the **ESTIMATED TOTAL BASE BID** is **\$1,978,120.00** NOT **\$1,979,120.00** as per your bid. Please FAX acknowledgement/concurrence of the correct amount by 1:00pm TODAY (10/28/13).

I HEREBY ACKNOWLEDGE AND CONCUR OF THE CORRECT AMOUNT OF \$1,978,120.00 BY
RASOUL SHAHBAZI, PRESIDENT, PALM ENGINEERING CONSTRUCTION
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.

R. L.
RASOUL SHAHBAZI, PRESIDENT

City of San Diego

CONTRACTOR'S NAME: PALM ENGINEERING CONSTRUCTION Co. INC.
ADDRESS: 17330 OPPORTUNITY RD. #1 S.D. CA 92111
TELEPHONE NO.: 619-291-1495 FAX NO.: 619-291-0442
CITY CONTACT: Clementina Giordano, Contract Specialist, Email: CGiordano@sandiego.gov
Phone No. 619-533-3481, Fax No. 619-533-3633
L.Schultz/AR/egz

CONTRACT DOCUMENTS



FOR

NORTH TORREY PINES ROADWAY & MEDIAN ENHANCEMENTS

VOLUME 2 OF 2

BID NO.: _____ K-14-5606-DBB-3
SAP NO. (WBS/IO/CC): _____ S-00868
CLIENT DEPARTMENT: _____ 2116
COUNCIL DISTRICT: _____ 1
PROJECT TYPE: _____ IK/IG

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE FEDERAL

THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY
REFER TO VOLUME 1 COVER PAGE FOR TIME, DATE, AND LOCATION

TABLE OF CONTENTS

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	7
3. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106	8
4. Contractors Certification of Pending Actions.....	9
5. Equal Benefits Ordinance Certification of Compliance.....	10
6. Proposal (Bid).....	11
7. Form AA35 List of Subcontractors.....	17
8. Form AA40 Named Equipment/Material Supplier List.....	18

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. _____

IF A PARTNERSHIP, SIGN HERE:

- (1) Name under which business is conducted _____

BIDDING DOCUMENTS

(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) _____

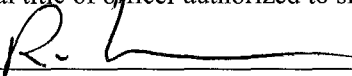
(5) City and State _____ Zip Code _____

(6) Telephone No. _____ Facsimile No. _____

IF A CORPORATION, SIGN HERE:

(1) Name under which business is conducted PALM ENGINEERING CONSTRUCTION,
CO. INC.

(2) Signature, with official title of officer authorized to sign for the corporation:


(Signature)

RASOUL SHAHBAZI
(Printed Name)

PRESIDENT
(Title of Officer)

(Impress Corporate Seal Here)

(3) Incorporated under the laws of the State of CA

(4) Place of Business (Street & Number) 7330 OPPORTUNITY RD. #J

(5) City and State S.D., CA Zip Code 92111

(6) Telephone No. 619-291-0495 Facsimile No. 619-291-0482

BIDDING DOCUMENTS

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, C27

LICENSE NO. 853930 EXPIRES 2/28/15, 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): 

E-Mail Address: PALM@SAN.VR.COM

BIDDING DOCUMENTS

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  Title PRESIDENT

SUBSCRIBED AND SWORN TO BEFORE ME, THIS _____ DAY OF _____, 2____.

Notary Public in and for the County of _____, State of _____

(NOTARIAL SEAL)

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of S.D.

On 10/23/13 before me, RASOUL SHAHRBAZI, PRESIDENT
(Here insert name and title of the officer)

personally appeared OF PALM ENGINEERING CONSTRUCTION CO. INC.

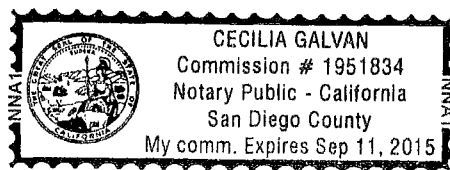
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is are subscribed to the within instrument and acknowledged to me that he she/they executed the same in his her/their authorized capacity(ies), and that by his her/their signature(s) on the instrument the person(s), 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.

Cecilia Galvan
 Signature of Notary Public

(Notary Seal)



ADDITIONAL OPTIONAL INFORMATION

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

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 <input type="checkbox"/> Individual (s) <input type="checkbox"/> Corporate Officer _____ (Title) <input type="checkbox"/> Partner(s) <input type="checkbox"/> Attorney-in-Fact <input type="checkbox"/> Trustee(s) <input type="checkbox"/> Other _____

BIDDING DOCUMENTS

BID BOND

KNOW ALL MEN BY THESE PRESENTS,

That PALM ENGINEERING CONSTRUCTION COMPANY, INC. as Principal, and SURETEC INSURANCE COMPANY as Surety, are held and firmly bound unto The City of San Diego hereinafter called "OWNER," in the sum of **10% OF THE TOTAL BID AMOUNT** for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a Bid to said OWNER to perform the WORK required under the bidding schedule(s) of the OWNER's Contract Documents entitled


NORTH TORREY PINES ROADWAY & MEDIAN ENHANCEMENTS, BID NO. K-14-5606-DBB-3

NOW THEREFORE, if said Principal is awarded a contract by said OWNER and, within the time and in the manner required in the "Notice Inviting Bids" enters into a written Agreement on the form of agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond and Payment Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said OWNER and OWNER prevails, said Surety shall pay all costs incurred by said OWNER in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 16TH day of OCTOBER, 2013

PALM ENGINEERING CONSTRUCTION COMPANY, INC. (SEAL)

(Principal)

By: 
(Signature)

RASOUL SHAHBAZI, PRESIDENT

SURETEC INSURANCE COMPANY (SEAL)

(Surety)

By: 
(Signature)

MARK D. IATAROLA, ATTORNEY-IN-FACT

(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY)

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

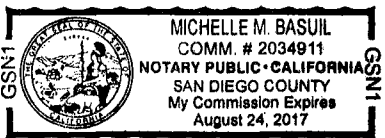
STATE OF CALIFORNIA

County of SAN DIEGO }

On 10/16/2013 before me, MICHELLE M. BASUIL, NOTARY PUBLIC
Date Here Insert Name and Title of the Officer

personally appeared MARK D. IATAROLA
Name(s) of Signer(s)

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.



Place Notary Seal Above

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.

Signature Michelle M. Basuil
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: BID BOND

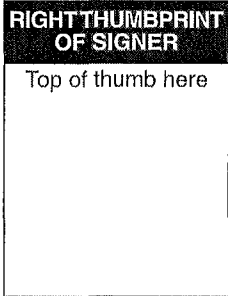
Document Date: 10/16/2013 Number of Pages: 1

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: MARK D. IATAROLA

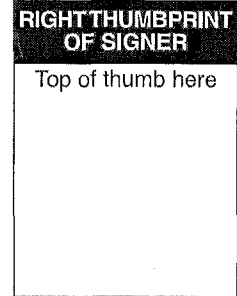
- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

SureTec Insurance Company

LIMITED POWER OF ATTORNEY

Know All Men by These Presents, That SURETEC INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Texas, and having its principal office in Houston, Harris County, Texas, does by these presents make, constitute and appoint

Michelle M. Basuil, Glenda J. Gardner, Helen Maloney, Mark D. Iatarola, John G. Maloney

its true and lawful Attorney-in-fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include waivers to the conditions of contracts and consents of surety for:

Five Million and 00/100 Dollars (\$5,000,000.00)

and to bind the Company thereby as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney-in-Fact may do in the premises. Said appointment shall continue in force until 10/31/2015 and is made under and by authority of the following resolutions of the Board of Directors of the SureTec Insurance Company:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and of behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached. *(Adopted at a meeting held on 20th of April, 1999.)*

In Witness Whereof, SURETEC INSURANCE COMPANY has caused these presents to be signed by its President, and its corporate seal to be hereto affixed this 21st day of March, A.D. 2013.

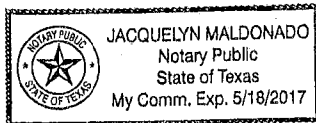
SURETEC INSURANCE COMPANY


By: 
John Knox Jr., President



State of Texas ss:
County of Harris

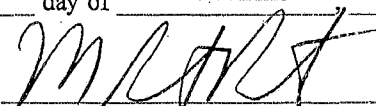
On this 21st day of March, A.D. 2013 before me personally came John Knox Jr., to me known, who, being by me duly sworn, did depose and say, that he resides in Houston, Texas, that he is President of SURETEC INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.




Jacquelyn Maldonado, Notary Public
My commission expires May 18, 2017

I, M. Brent Beaty, Assistant Secretary of SURETEC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; and furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

Given under my hand and the seal of said Company at Houston, Texas this 16TH day of OCTOBER, 2013, A.D.


M. Brent Beaty, Assistant Secretary


Any instrument issued in excess of the penalty stated above is totally void and without any validity.
For verification of the authority of this power you may call (713) 812-0800 any business day between 8:00 am and 5:00 pm CST.

BIDDING DOCUMENTS

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND
SUBMITTED WITH BID UNDER 23 USC 112 AND PCC 7106**

State of California)
County of S.D.) ss.

RASOUL SHAHBAZI, 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: 
Title: PRESIDENT

Subscribed and sworn to before me this _____ day of _____, _____

Notary Public

(SEAL)

CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

State of California

County of S.D.

On 10/23/13 before me, RASOULS HABAZI, PIZESIDENT
(Here insert name and title of the officer)

personally appeared OF PALM ENGINEERING CONSTRUCTION, CO. INC.

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.

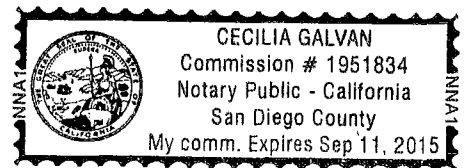
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Cecilia Galvan

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

CONTRACTORS CERTIFICATION OF PENDING ACTIONS

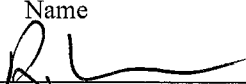
As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated 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: PALM ENGINEERING CONST. CO. INC
 Certified By TRASOUL SHAHBAZI Title PRESIDENT
Name
 Date 10/23/13
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: PALM ENGINEERING CONST. CO. INC. Contact Name: R. SHAHBAZI
 Company Address: 7330 OPPORTUNITY RD. #J Contact Phone: 619-291-1495
S.D., CA 92111 Contact Email: PALMESAN.COM

CONTRACT INFORMATION

Contract Title: NORTH TORREY PINES RD. WAY E. Start Date:
 Contract Number (if no number, state location): K-14-5606-DBB-3 End Date:

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.

RASOUL SHAHBAZI, PRESIDENT
 Name/Title of Signatory

[Signature]
 Signature

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 North Torrey Pines Roadway & Median Enhancements, 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 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)	 	\$ 20000
2.	1	LS	237110	7-10.2.6	Traffic Control	 	\$ 50000
3.	1	AL	237110	9-3.1	2" Recycled Water Meter Capacity Charge Fee - Type I	 	\$73,128.00
4.	1	AL	237110	9-3.1	Install 2" Water Tap (Installed by City Forces and Paid by Contractor) - Type I	 	\$762.00
5.	1	AL	237110	9-3.1	Install 2" Recycled Water Meter (Installed by City Forces and Paid by the Contractor) - Type I	 	\$1,026.00
6.	1	AL	237110	9-3.1	Cross Connection Test Station Fee - Type I	 	\$2,340.00
7.	1	AL		9-3.5	Field Orders - Type II	 	\$45,000.00
8.	1	LS	238910	300-1.4	Clearing & Grubbing	 	\$ 40000
9.	115	CY	237310	300-2.9	Unclassified Excavation	\$ 120	\$ 13800
10.	900	TN	237310	302-5.9	AC Paving	\$ 140	\$ 126000
11.	1	EA	237110	303-1.11	Modified Curb Inlet (Type B-1) and Concrete Culvert	\$ 10000	\$ 10000
12.	7	EA	237110	303-1.11	Reverse Curb Outlet	\$ 1500	\$ 10500
13.	1	EA	237310	303-1.11	Replace Existing SD Grate Inlet with Type I Inlet	\$ 8000	\$ 8000
14.	160	SF	238110	303-4.1.5	Retaining Wall - Gravity	\$ 150	\$ 24000

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
15.	8,978	LF	237310	303-5.9	6" Curb & Gutter (Type B-2)	\$ 23	\$ 206494
16.	2,000	LF	237310	303-5.9	6" Curb & Gutter (Type G)	\$ 20	\$ 40000
17.	290	LF	237310	303-5.9	Curb & Gutter (6" Rolled Curb, Type A)	\$ 27	\$ 7830
18.	400	SF	237310	303-5.9	Sidewalk	\$ 8	\$ 3200
19.	1,150	SF	237310	303-5.9	Sidewalk (4.5' Wide)	\$ 7	\$ 8050
20.	3,650	SF	237310	303-5.9	Sidewalk (5' Wide)	\$ 7	\$ 25550
21.	500	SF	237310	303-5.9	Remove and Replace Existing Sidewalk (5' wide)	\$ 10	\$ 5000
22.	1	EA	237310	303-5.10.2	Curb Ramp Type B w/ Stainless Steel Detectable Warning Tiles	\$ 2200	\$ 2200
23.	1	EA	237310	303-5.10.2	Curb Ramp Type A w/ Stainless Steel Detectable Warning Tiles	\$ 2200	\$ 2200
24.	3	EA	237310	303-5.10.2	Curb Ramp Type C1 w/ Stainless Steel Detectable Warning Tiles	\$ 2000	\$ 6000
25.	2	EA	237310	303-5.10.2	Curb Ramp Type D w/ Stainless Steel Detectable Warning Tiles	\$ 1800	\$ 3600
26.	1,785	SF	237310	303-8.9	Maintenance Pads (Pervious Concrete)	\$ 6	\$ 10710
27.	1,460	LF	237310	304-2.3.2	Metal Beam Guardrail and Terminal System	\$ 82	\$ 119720
28.	1	LS	237310	304-5	Signing	 	\$ 1000
29.	3,950	LF	237310	305-2.7.3	Steel Backed Timber Guardrail	\$ 90	\$ 355500
30.	80	LF	237310	305-2.7.2	Extra Steel Backed Timber Guardrail	\$ 80	\$ 6400
31.	3	EA	237110	306-14.1	2" Water Service	\$ 3000	\$ 9000
32.	2	EA	238210	307-2	Adjusting Traffic Signal Pole Box Elevation to New Sidewalk Elevation	\$ 400	\$ 800
33.	1	EA	238210	307-2	Relocate Existing Streetlight	\$ 2000	\$ 2000
34.	1	LS	561730	308-7	90 Day Plant Maintenance Establishment	 	\$ 6000

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
35.	13	EA	561730	308-7	Existing Tree Removal and Replace with Torrey Pines	\$ 1300	\$ 16900
36.	220,000	SF	561730	308-7	Soil Prep. and Weed Abatement, Fine Grading Shrub	\$.25	\$ 55000
37.	1	LS	561730	308-7	Perform Agricultural Soils Test and Percolation Tests	 	\$ 1000
38.	75	EA	561730	308-7	Planting - Trees 24" Box, Installed	\$ 380	\$ 28500
39.	7,520	EA	561730	308-7	Planting - Shrubs - 1 Gal, Installed	\$ 9	\$ 67680
40.	53,000	SF	561730	308-7	Planting - Flats - 24" O.C., Installed	\$.15	\$ 7950
41.	2,000	CY	561730	308-7	3" Bark Mulch	\$ 40	\$ 80000
42.	1,620	LF	561730	308-7	Root Barrier, 24" Deep, Installed	\$ 10	\$ 16200
43.	197	EA	561730	308-7	Prune Existing Trees	\$ 150	\$ 29550
44.	3	EA	561730	308-7	Construct Irrigation Controller Assembly on Concrete Pad with Rain Sensor	\$ 16000	\$ 48000
45.	3	EA	561730	308-7	1 1/2" Pressure Regulator	\$ 1500	\$ 4500
46.	3	EA	561730	308-7	1 1/2" Flow Sensor	\$ 1500	\$ 4500
47.	3	EA	561730	308-7	2" Master Valve	\$ 1500	\$ 4500
48.	79	EA	561730	308-7	1" Globe Valve w/ Valve Box	\$ 300	\$ 23700
49.	14	EA	561730	308-7	1 1/2" Globe Valve w/ Valve Box	\$ 550	\$ 7700
50.	11	EA	561730	308-7	3" Globe Valve w/ Valve Box	\$ 1200	\$ 13200
51.	53	EA	561730	308-7	1" Quick Coupler w/ Valve Box	\$ 300	\$ 15900
52.	50	EA	561730	308-7	1" RCV w/ Valve Box	\$ 420	\$ 21000
53.	20	EA	561730	308-7	1 1/2" RCV w/ Valve Box	\$ 440	\$ 8800
54.	1,550	LF	561730	308-7	Class 315 PVC Pipe Mainline - 2"	\$ 5	\$ 7750
55.	8,400	LF	561730	308-7	Class 315 PVC Pipe Mainline - 3"	\$ 6	\$ 50400

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension
56.	25,000	LF	561730	308-7	Schedule 40 PVC Pipe Non-Pressure 3/4 - 1-1/2"	\$ 2	\$ 50000
57.	800	LF	561730	308-7	Schedule 40 PVC Pipe Sleeving - 6"	\$ 25	\$ 20000
58.	800	LF	561730	308-7	Irrigation Low Voltage Wire Sleeves - 2"	\$ 6	\$ 4800
59.	22	EA	561730	308-7	Pull Boxes	\$ 200	\$ 4400
60.	12,000	LF	561730	308-7	Irrigation Low Voltage Wiring	\$.75	\$ 9000
61.	800	LF	561730	308-7	Irrigation Sleeve Trenching, Compaction & Street Repair	\$ 10	\$ 8000
62.	5	EA	561730	308-7	Cross Connection Test Station	\$ 1500	\$ 7500
63.	25	EA	561730	308-7	'Do Not Drink' Sign, Installed	\$ 50	\$ 1250
64.	1,140	EA	561730	308-7	MP Rotator Pop-up Spray Head	\$ 40	\$ 46500
65.	150	EA	561730	308-7	Rainbird Tree Bubbler Assembly	\$ 40	\$ 6000
66.	75	EA	561730	308-7	Tree Drainage Assembly Per New Tree	\$ 120	\$ 9000
67.	2	EA	561730	308-7	Meter Pedestal	\$ 4000	\$ 8000
68.	2	EA	561730	308-7	Meter Pedestal Concrete Base	\$ 500	\$ 1000
69.	2	EA	561730	308-7	Grounding Rod	\$ 100	\$ 200
70.	2	EA	561730	308-7	Grounding Rod Lug	\$ 30	\$ 60
71.	6	LF	561730	308-7	#6 THWN CU	\$ 20	\$ 120
72.	100	LF	561730	308-7	Trench and Backfill	\$ 50	\$ 5000
73.	80	LF	561730	308-7	Concrete Repair	\$ 15	\$ 1200
74.	100	LF	561730	308-7	3" PVC Sch 40 Conduit	\$ 15	\$ 1500
75.	4	EA	561730	308-7	3" PVC Sch 40 ELL	\$ 30	\$ 120
76.	250	LF	561730	308-7	3/4" PVC Sch 40 Conduit	\$ 12	\$ 3000
77.	6	EA	561730	308-7	3/4" PVC Sch 40 ELL	\$ 5	\$ 30

45,600 (CA)

BIDDING DOCUMENTS

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
78.	800	LF	561730	308-7	#12 THWN CU	\$ 1.25	\$ 1000	
79.	1,460	LF	237310	310-5.4	Galvanized Surface Staining for MBGR (Double Sided)	\$ 10	\$ 14600	
80.	8,700	LF	237310	314-4.3.7	Striping and Pavement Markings	\$ 1	\$ 8700	
81.	250	LF	237310	311-1.1	Visqueen Liner (10 Mil Thick Minimum) and Installation Including Excavation As Necessary	\$ 10	\$ 2500	
82.	1	LS	541330	701-13.8.5	Water Pollution Control Program Development	X	\$ 1000	
83.	1	LS	237990	701-13.8.5	Water Pollution Control Program Implementation	X	\$ 6000	
ESTIMATED TOTAL BASE BID:							\$ 1,979,120	1,978,120 (CA)

TOTAL BID PRICE FOR BID (Items 1 through 83 inclusive) amount written in words:

ONE MILLION NINE HUNDRED SEVENTY NINE THOUSAND ONE HUNDRED TWENTY

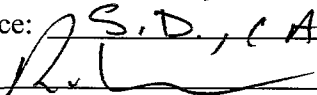
The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: A

The names of all persons interested in the foregoing proposal as principals are as follows:

RASOUL SHAH BAZI

BIDDING DOCUMENTS

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: PALM ENGINEERING CONSTRUCTION Co. Inc.
Title: IRASOUL SHAHBAZI PRESIDENT
Business Address: 7330 OPPORTUNITY RD. #J
Place of Business: S.D., CA 92111
Place of Residence: S.D., CA 92111
Signature: 

NOTES:

- A. The City will 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 shall 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

NOTES:

- A. The City will 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 shall 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	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: <u>SEALRIGHT PAVING</u> Address: <u>P.O. BOX 2753</u> City: <u>SB VALLEY</u> State: <u>CA</u> Zip: <u>91979</u> Phone: <u>619-465-7411</u>	CONST.	ASPHALT	102186	SLBE	CITY	
Name: <u>LSI</u> Address: <u>P.O. BOX 2426</u> City: <u>ELCAJON</u> State: <u>CA</u> Zip: <u>92021</u> Phone: <u>619-443-7758</u>	CONST.	INP STRIP	7660	ELBE	CITY	
Name: <u>NATINA</u> Address: <u>P.O. BOX 4668</u> City: <u>PALM DES</u> State: <u>CA</u> Zip: <u>92261</u> Phone: <u>877-762-8462</u>	CONST	GALVANIZ INP	10484.			

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.

#674,910
= .3412
(C)

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: <u>ALVAND CONST. INC.</u> Address: <u>12344 BAK KNOLE RD</u> City: <u>POWAY</u> State: <u>CA</u> Zip: <u>92064</u> Phone: <u>658-668-2380</u>	<u>CONST</u>	<u>GUARD TRAIL PARTIAL DEMO</u>	<u>554,580</u>	<u>ELBE</u>	<u>CITY</u>	
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

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.

BIDDING DOCUMENTS

NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

The Bidder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall list the Supplier(s) on the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, shall have the name, locations (City) and the **DOLLAR VALUE** of the Suppliers. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for such materials and supplies unless vendor manufactures or substantially alters materials and supplies in which case 100% will be credited. The Bidder is to indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage, Suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the subcontractor participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB [ⓐ]	WHERE CERTIFIED [ⓑ]
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____						

ⓐ As appropriate, Bidder shall identify Vendor/Supplier 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		

ⓑ As appropriate, Bidder shall indicate if Vendor/Supplier 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.

PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS IN CONJUNCTION WITH THE LATEST EDITION OF GREENBOOK AND WHITEBOOK AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

REFERENCE:

CITY OF SAN DIEGO FIELD NOTES BY DAVIS, 3-27-2007, W.O. 526160, L.C. 264-1695.

BASIS OF BEARING / COORDINATES

THE BASIS OF BEARINGS FOR THIS PROJECT IS A PORTION OF THE CENTERLINE OF GENESEE AVENUE AS SHOWN ON MAP 12960 MAP I.E. N74°07'56"W, SAID BEARING AND THE BEARINGS SHOWN HEREON ARE IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM CCS 83 ZONE 6. QUOTED BEARINGS FROM REFERENCE MAPS OR DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM.

BENCHMARK

DAVIS, 3-27-2007

UTILITY NOTE

THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCY AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION: UNDERGROUND SERVICE ALERT (USA) 1-800-422-4133

UTILITIES

LIST OF UTILITIES

SDG&E
SOCAL GAS
COX
AT&T
CITY OF SAN DIEGO WATER
CITY OF SAN DIEGO TRAFFIC

PHONE NUMBERS

(800) 411-7343
(714) 634-3196
(760) 806-2046
(510) 645-2949
(619) 515-3525
(619) 527-8050

STORM WATER PROTECTION

THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2007-0001 AND SWPPP.

CROSS REFERENCING

INDICATES DETAIL I.D. NUMBER

DETAIL

SCALE :

INDICATES DRAWING WHERE DETAIL IS APPLIED

INDICATES DETAIL I.D. NUMBER

INDICATES DRAWING WHERE DETAIL SHOWN

DETAIL MARKER

INDICATES SECTION I.D. LETTER

SECTION

SCALE :

INDICATES DRAWING WHERE SECTION IS TAKEN FROM

INDICATES SECTION I.D. LETTER

FLAG INDICATES DIRECTION OF SECTION CUT

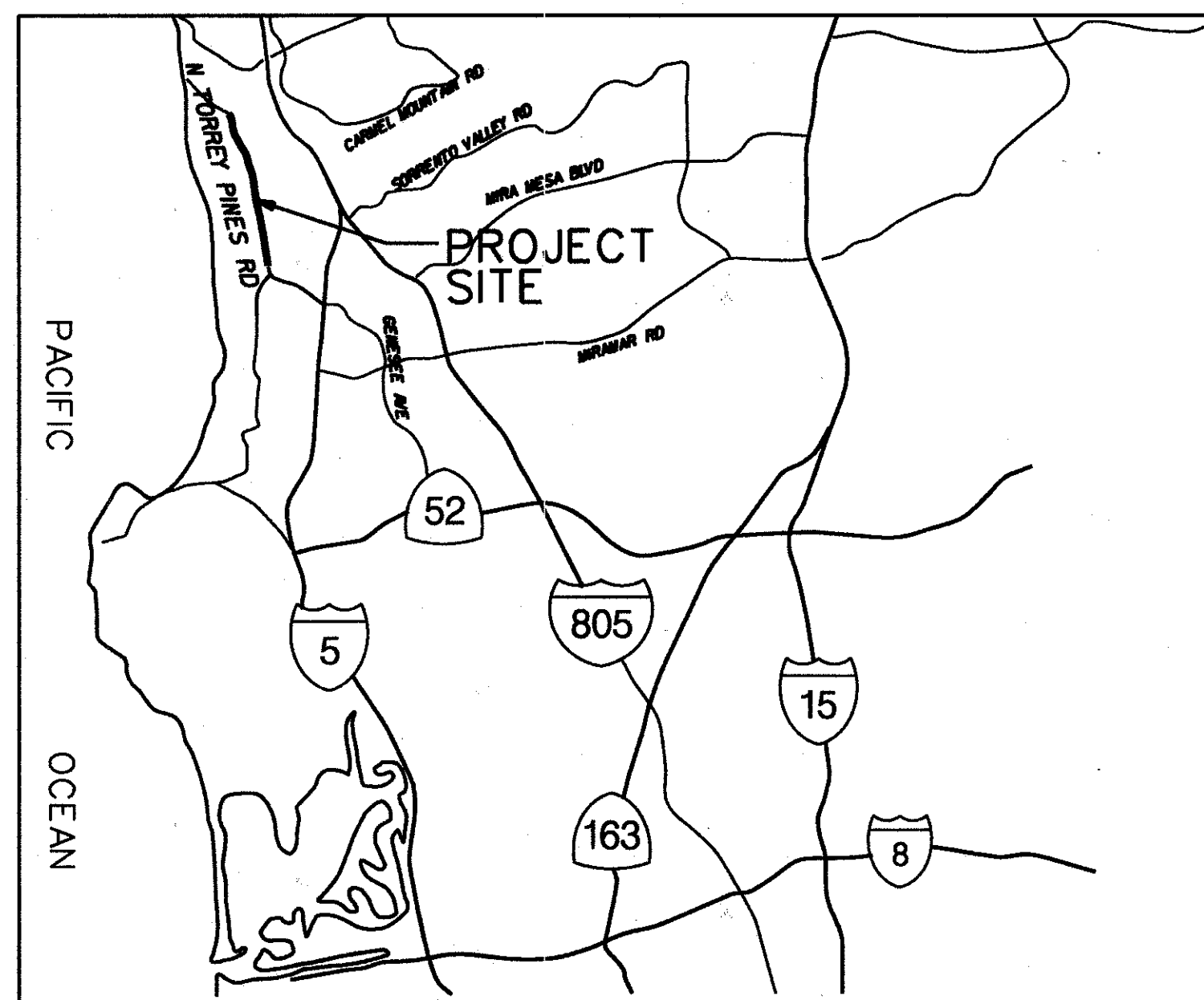
INDICATES DRAWING WHERE SECTION SHOWN

SECTION CUT MARKER

WARNING

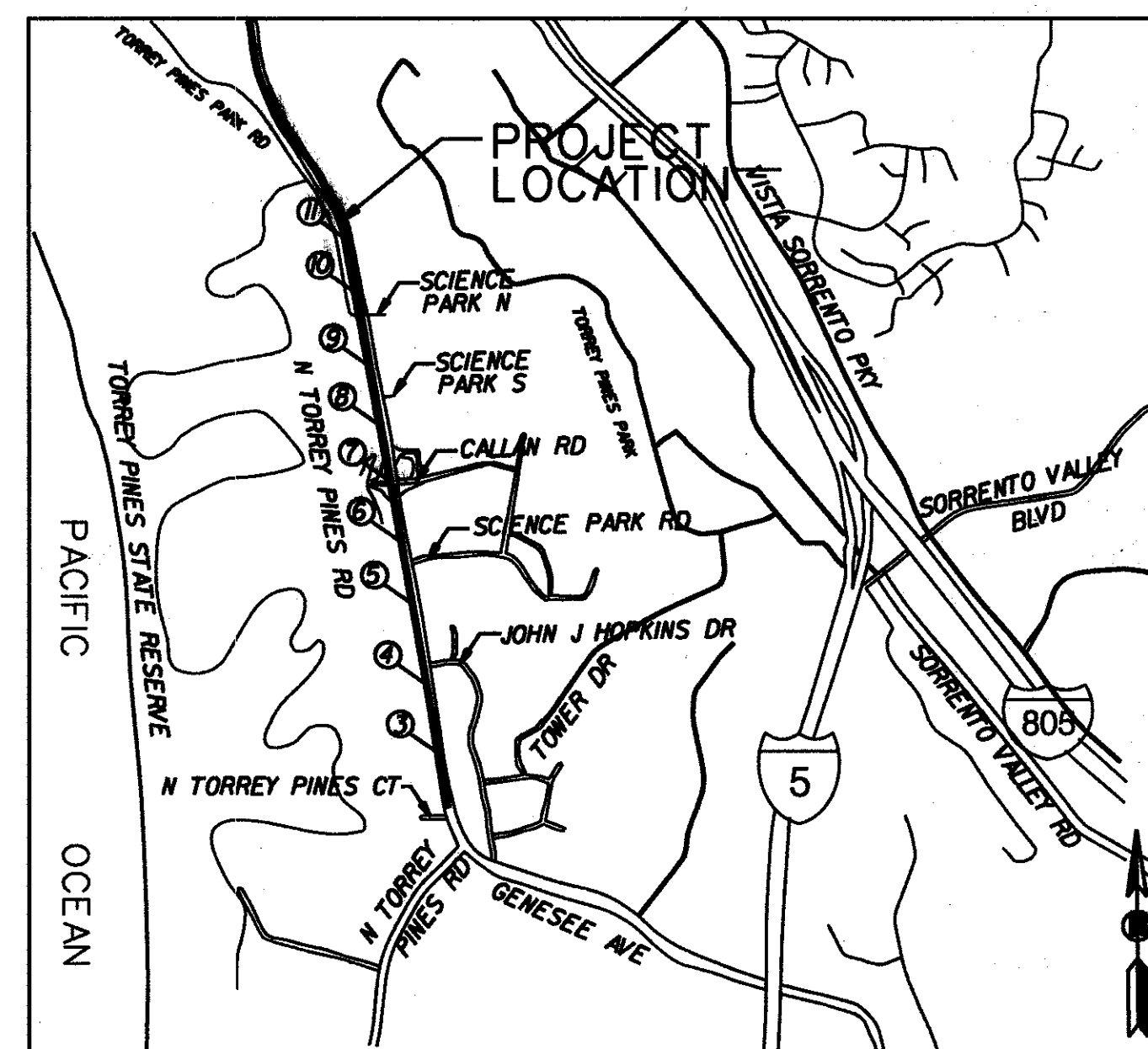
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

**CITY OF SAN DIEGO
PUBLIC WORKS PROJECT**



VICINITY MAP

NTS



LOCATION MAP

NTS

⊙ SHEET NUMBER

LIMITS OF WORK

SHEET NO.	DISCIPLINE CODE	TITLE	LIMITS
1	G-1	COVER SHEET	
2	G-2	GENERAL NOTES	
3	C-1	PLAN AND PROFILE	STA 1+00 TO STA 8+50
4	C-2	PLAN AND PROFILE	STA 8+50 TO STA 20+50
5	C-3	PLAN AND PROFILE	STA 20+50 TO STA 32+50
6	C-4	PLAN AND PROFILE	STA 32+50 TO STA 41+00
7	C-5	PLAN AND PROFILE	STA 41+00 TO STA 45+00
8	C-6	PLAN AND PROFILE	STA 45+00 TO STA 53+50
9	C-7	PLAN AND PROFILE	STA 53+50 TO STA 64+50
10	C-8	PLAN AND PROFILE	STA 64+50 TO STA 71+00
11	C-9	PLAN AND PROFILE	STA 71+00 TO STA 78+00
12	C-10	PEDESTRIAN IMPROVEMENT PROJECT	
13	D-1	PART PLAN & SECTIONS	CALLAN RD
14	D-2	SECTIONS	
15	D-3	DETAILS	
16	C-11	CURB PROFILE	WEST OF NORTH TORREY PINES RD
17	E-1	ELECTRICAL SCHEDULES AND DETAILS	
18	E-2	ELECTRICAL SITE PLAN	
19	RW-1	LANDSCAPING KEY MAP	
20-28	I-1 - I-9	IRRIGATION PLAN	
29	I-10	IRRIGATION NOTES	
30	I-11	IRRIGATION DETAILS	
31-39	P-1 - P-9	PLANTING PLAN	
40	P-10	PLANTING LEGEND	
41	P-11	PLANTING DETAILS	
T1 - T8	T-1 - T-17	TRAFFIC CONTROL PLANS	

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.

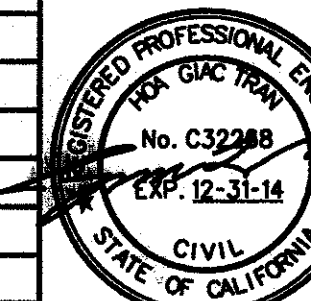
[Signature]
(ENGINEER'S NAME)

4/15/13
DATE

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH ___ MEDIUM ___ LOW ___ SPEC. NO. 5606

AS-BUILT INFORMATION

MATERIALS	MANUFACTURER
PIPE CL 235 (WATER)	-
PIPE SDR 35 (SEWER)	-
GATE VALVES	-
FIRE HYDRANTS	-
SEWER MANHOLES	-
REHABILITATE SEWER MANHOLES	-
REHABILITATE SEWER MAIN	-



IMPROVEMENTS STD. DWG. LEGEND

CURB AND GUTTER	SDG-154 TYPE B-2, SDG-151, G-4 TYPE A (SEE APPENDIX G)	
6' CURB	SDG-150	
PCC SIDEWALK	SDG-155, SDG-109, G-10	
CURB RAMP	SDG-130, SDG-132, SDG-135, SDG-136	
INLET	SDD-116 TYPE B-1, D29, D-15	
GUARDRAIL AND END ANCHOR	A77H1, A77L1, A77L4, 617-60 (SEE APPENDIX I)	
RETAINING WALL	C-9	
SERVICE CONNECTION		

NOTE : FOR LEGEND SYMBOLS, SEE SAN DIEGO REGIONAL STANDARD DRAWINGS

ABBREVIATIONS

AC	ASPHALT CONCRETE	MIN	MINIMUM POINT
APPROX	APPROXIMATELY	PT	POINT
BC	BEGINNING OF CURVE	R.O.W.	RIGHT OF WAY
BMP	BEST MANAGEMENT PRACTICES	RT	RIGHT
CB	CENTER LINE	SBTGR	STEEL BACKED TIMBER GUARD RAIL
CONC	CONCRETE	SORSO	SAN DIEGO REGIONAL STANDARD DRAWINGS
CONST	CONSTRUCTION	TEL	TELEPHONE
DIA	DIAMETER	TYP	TYPICAL
EC	END OF CURVE	TC, T.O.C	TOP OF CURB
EL	ELEVATION	UNK	UNKNOWN
EX, EXIST	EXISTING		
IE	INVERT ELEVATION		
LT	LEFT		
MBGR	METAL BEAM GUARD RAIL		

TRAFFIC CONTROL NOTES:

THE CONTRACTOR SHALL, PER SECTION 7-10.2.2 OF THE CONTRACT SPECIAL PROVISIONS, PREPARE TRAFFIC CONTROL WORKING DRAWINGS AND SUBMIT THEM TO THE RESIDENT ENGINEER. THE WORKING 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 WORKING 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.

WATER POLLUTION CONTRL NOTES:

THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS NOTED IN THE GREENBOOK 2012 CITY SUPPLEMENT SEC 701 - WATER POLLUTION CONTROL.

CONTRACTOR'S RESPONSIBILITIES

- 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.
- 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)

G-1

PLANS FOR THE CONSTRUCTION OF
NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENT
STATE RESERVE BOUNDARY
COVER SHEET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 1 OF 41 SHEETS		WBS S-00868
APPROVED BY <i>[Signature]</i> FOR CITY ENGINEER	DATE 6/11/13	SUBMITTED BY LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION ORIGINAL	BY TCE	APPROVED DATE FILMED
CONTRACTOR INSPECTOR		DATE STARTED DATE COMPLETED
		36665-01-D

CONSTRUCTION CHANGE / ADDENDUM			
CHANGE	DATE	AFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
2. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.
3. DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR.
4. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.

CONSTRUCTION NOTES

1. ROUGHEN EXISTING CONCRETE SURFACE TO OBTAIN 1/8" AMPLITUDE. APPLY SIKA ARMATEC 110 EPOCHEM OR APPROVED EQUIVALENT PRODUCT TO JOINT BETWEEN NEW AND EXISTING CONCRETE. APPLY IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. CONTRACTOR SHALL OVERCUT AC PAVEMENT 18" BY SAWCUTTING FOR CONSTRUCTION OF TRANSITION, CURB, GUTTER AND MODIFIED APRON. FILL TRENCH PER SDRSD SDG-107.
3. ALL PROPOSED PLASTIC PIPING FOR THE PROJECT SHALL BE PVC SCHEDULE 40.
4. DURING GUARD RAIL INSTALLATION, IN LOCATIONS THAT 2.5 FEET DEFLECTION DISTANCE FROM THE FACE OF TREE TO THE FACE OF GUARD RAIL IS NOT POSSIBLE, OR WHERE DIRECTED BY THE RESIDENT ENGINEER, CONTRACTOR SHALL REINFORCE GUARD RAIL PER DEATAIL 3 ON SHEET 13.
5. AC PAVEMENT SHALL BE SCHEDULE "J" WITH ESTIMATED SECTION 14" FULL DEPTH ASPHALT CONCRETE.
6. MBGR TERMINAL SYSTEM TYPE CAT SHALL BE PER CALTRANS 2006 STANDARD PLAN A77L4 AND FOR TERMINAL SYSTEM TYPE SRT SHALL BE PER CALTRANS 2006 STANDARD PLAN A77L1, SEE APPENDIX H.

G-2

PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT			
GENERAL NOTES AND CONSTRUCTION NOTES			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 2 OF 41 SHEETS		WBS S-00868	
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE: <i>6/16/13</i>	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION ORIGINAL	BY TCE	APPROVED DATE FILMED	SABEEN COCHINWALA PROJECT ENGINEER SEE PLANS CC327 COORDINATE SEE PLANS CC383 COORDINATE
CONTRACTOR		DATE STARTED	36665-02-D
INSPECTOR		DATE COMPLETED	



Tran Consulting Engineers

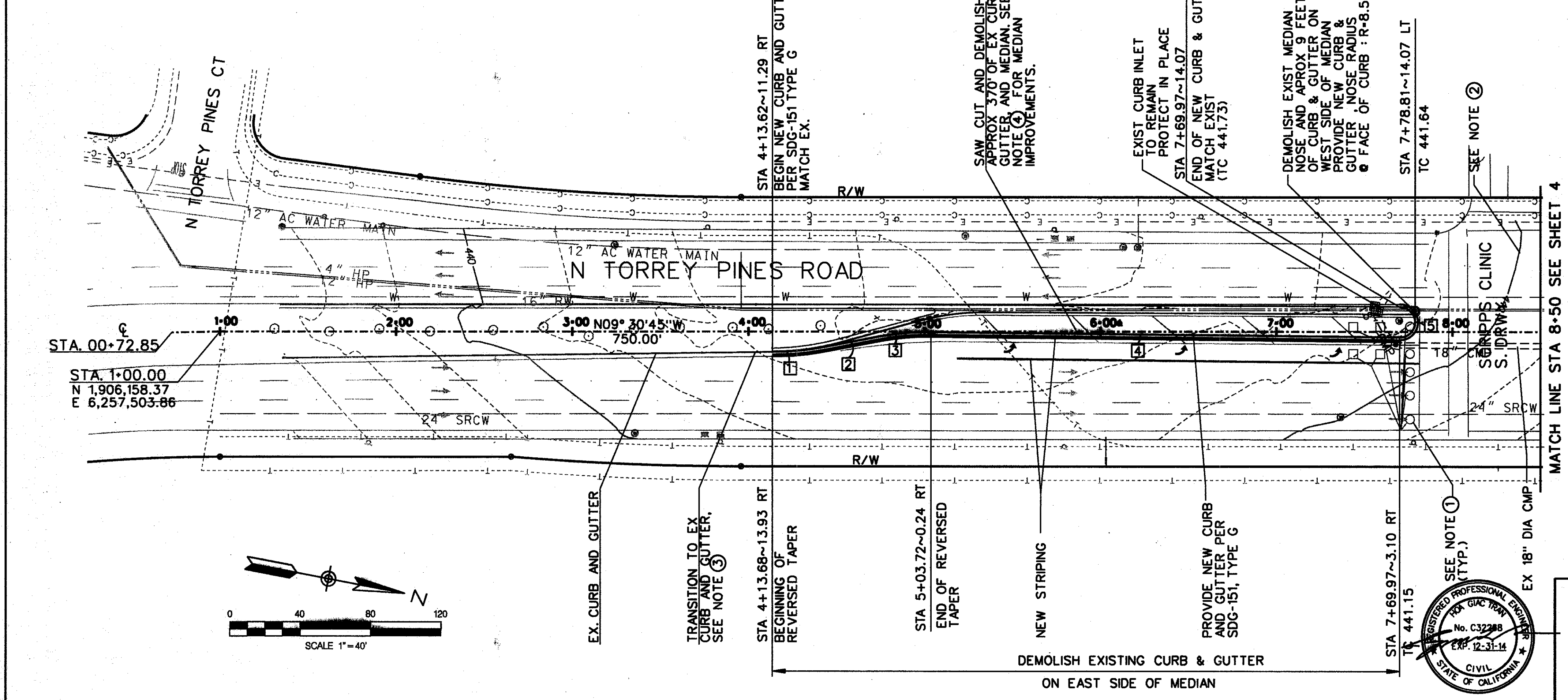
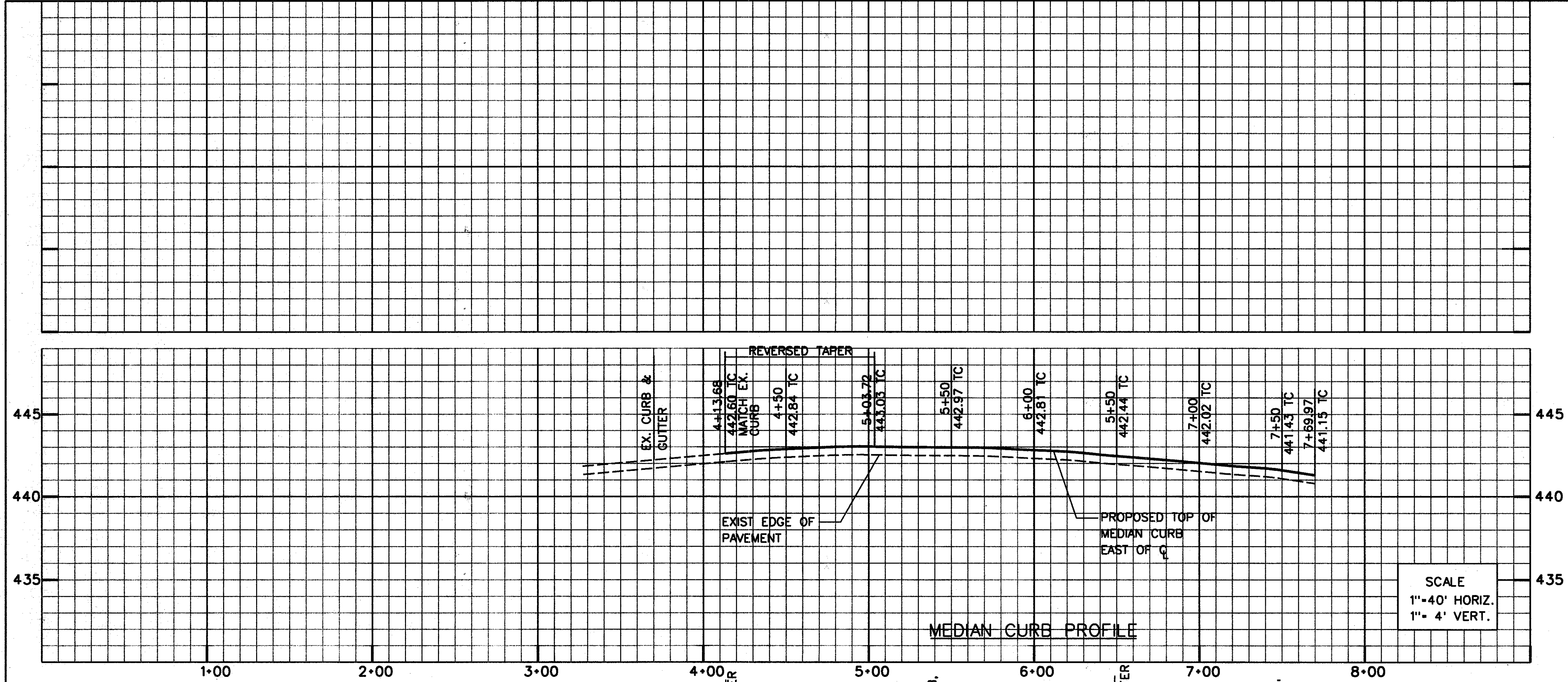
4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13

PROPOSED CURB DATA TABLE				
NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N/A	149.70'	29.77'	SDG-151
2	S20° 13' 44" E		30.60'	SDG-151
3	N/A	154.63'	30.58'	SDG-151
4	N08° 53' 51" W		266.35'	SDG-151
5	S82° 51' 11" W	8.58'	27.39'	SDG-151

NOTES:

- ANY DAMAGE TO THE IMPROVEMENTS AND/OR EX. TRAFFIC EQUIPMENT (INCLUDING LOOPS, PULL BOXES, AND CONDUITS) SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE. TYP. OF ALL INTERSECTIONS INCLUDED IN THIS PROJECT. LOCATION OF THE EX. TRAFFIC LOOPS IS APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE TO FIND OUT THE EXACT LOCATION OF THE EQUIPMENT.
- INSTALL HISTORIC ROUTE 101 SIGN ON TRAFFIC SIGNAL POLE ON BOTH SIDES OF THE ROADWAY. SIGN TO BE PROVIDED BY RESIDENT ENGINEER.
- SAW CUT AND DEMOLISH 3 ADDITIONAL FEET OF EX CURB AND GUTTER. CREATE A TRANSITION SEGMENT TO MATCH EX CURB AND GUTTER TO NEW CURB AND GUTTER.
- REFER TO DRAWING P-1 FOR MEDIAN FILL CONSTRUCTION.



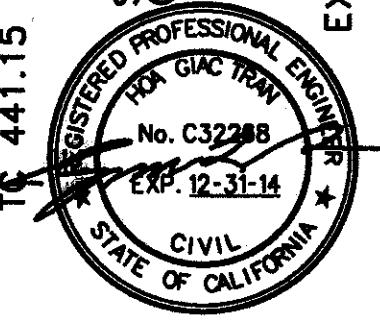
Tran Consulting Engineers
 4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-662-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-19-13

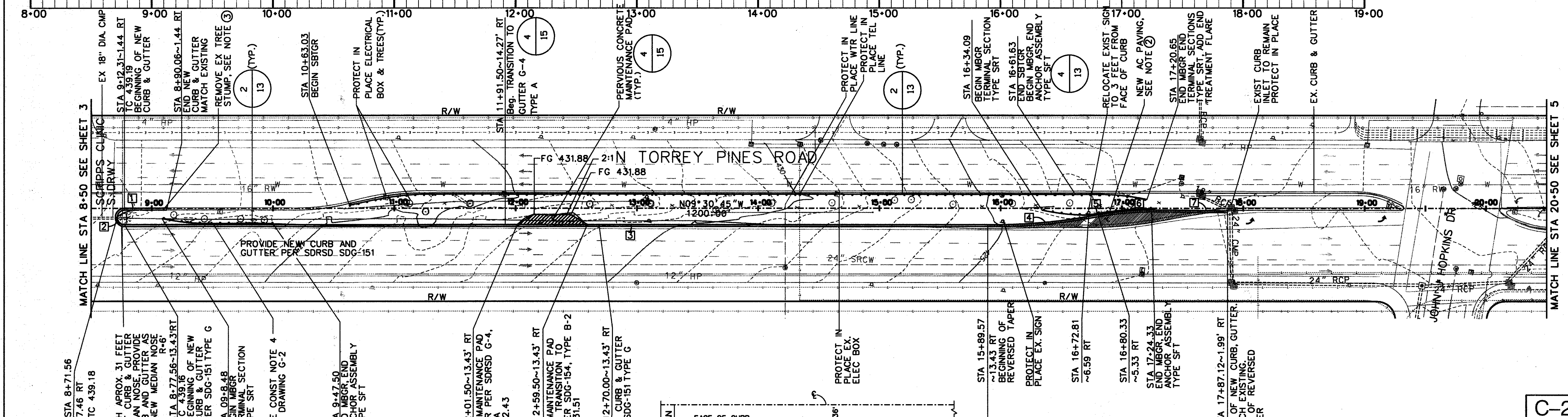
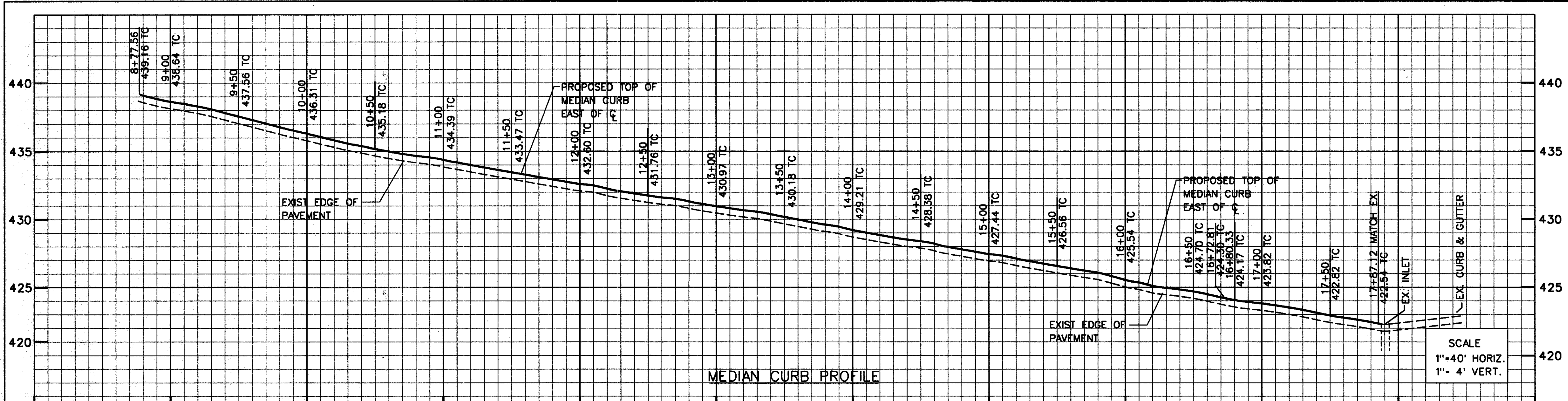
PLANS FOR THE CONSTRUCTION OF
**NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT**
 STATE RESERVE BOUNDARY
 CURB & GUTTER PLAN AND PROFILE
 STA 1+00 TO STA 8+50

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 3 OF 41 SHEETS		WBS S-00868
FOR CITY ENGINEER	DATE	LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	TCE	
DATE		FILED
DATE STARTED		DATE COMPLETED
CONTRACTOR		INSPECTOR
6256407-1906444 CCS87 COORDINATE		36665-03-D CCS89 COORDINATE

C-1

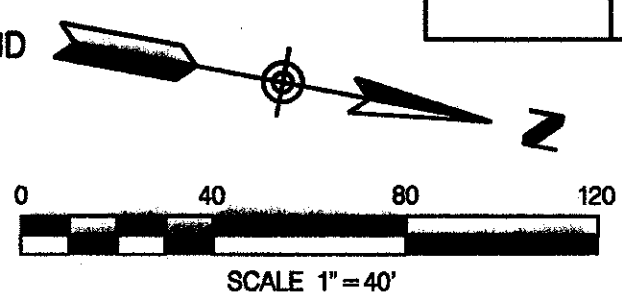
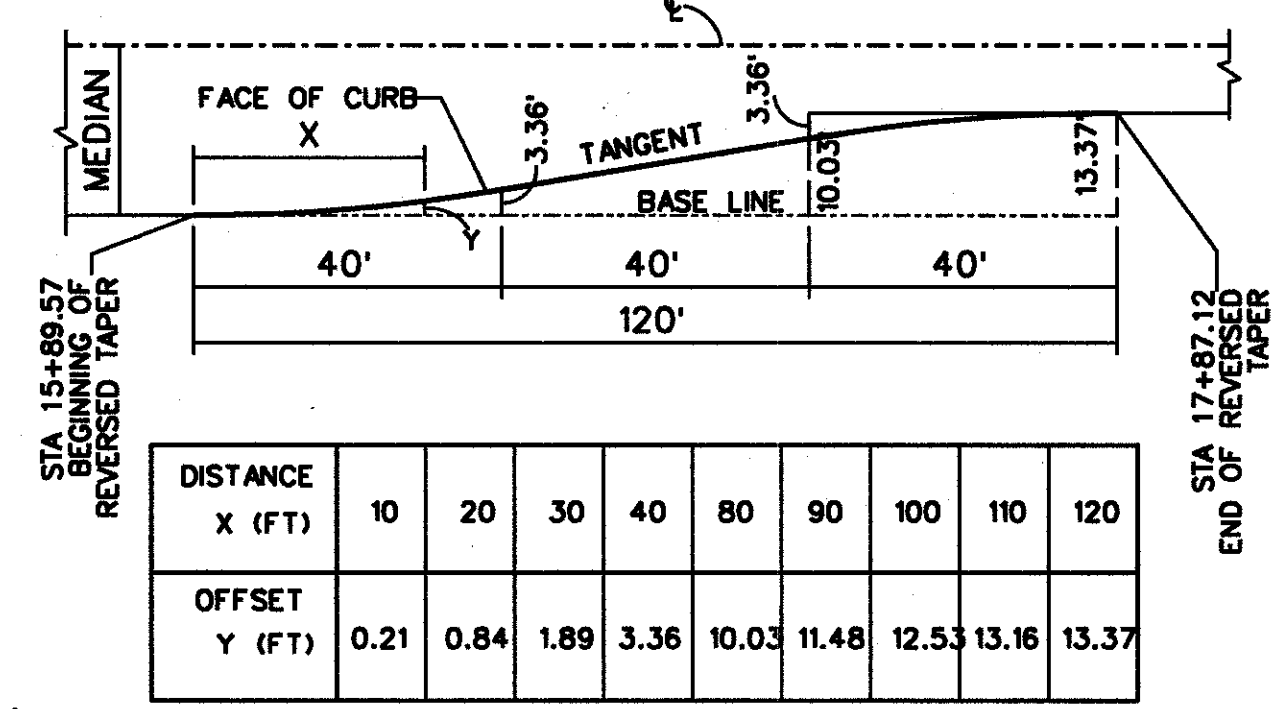


NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT



PROPOSED CURB DATA TABLE				
NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N09° 35' 20" W		34.75'	SDG-151
2	180° 00' 00"	6.00'	18.85'	SDG-151
3	N09° 30' 45" W		711.85'	SDG-151
4	N/A	434.36'	83.63'	SDG-151
5	N19° 37' 42" W		7.65'	SDG-151
6	N/A	259.75'	44.42'	SDG-151
7	S08° 52' 28" E		62.78'	SDG-151

- NOTES:**
- CONSTRUCT NEW TAPER PER TABLE ABOVE
 - NEW AC PAVING PER SDG113. SEE CONSTRUCTION NOTE 5.
 - PRIOR TO REPLACEMENT OF CURB AND GUTTER, GRIND DOWN AND REMOVE TREE STUMP 4' BELOW THE EX GROUND SURFACE. BACKFILL WITH IMPORTED SOIL PER GREENBOOK SECTION 300-4 TO MATCH EX GRADE. COMPACT SOIL TO 95% COMPACTION AT 12" LIFTS.



MEDIAN TAPER PER SDRSD SDM-101 PART PLAN NTS

PLANS FOR THE CONSTRUCTION OF
NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENT
STATE RESERVE BOUNDARY
CURB & GUTTER PLAN AND PROFILE
STA 8+50 TO STA 20+50

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 4 OF 41 SHEETS

WBS S-00868

APPROVED: *[Signature]* DATE: 6/11/13

FOR CITY ENGINEER

DESIGNED BY: TCE
APPROVED BY: TCE
DATE: 6/11/13
FILED: []

LOUIS SCHULTZ
PROJECT MANAGER

SABEN COCHINWALA
PROJECT ENGINEER

266-1695
CDSB7 COORDINATE

6256407-1906444
CDSB3 COORDINATE

CONTRACTOR: [] DATE STARTED: []
INSPECTOR: [] DATE COMPLETED: []

36665-04-D



Tran Consulting Engineers

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San Diego, California 92115
619-662-7650, FAX 619-663-7821

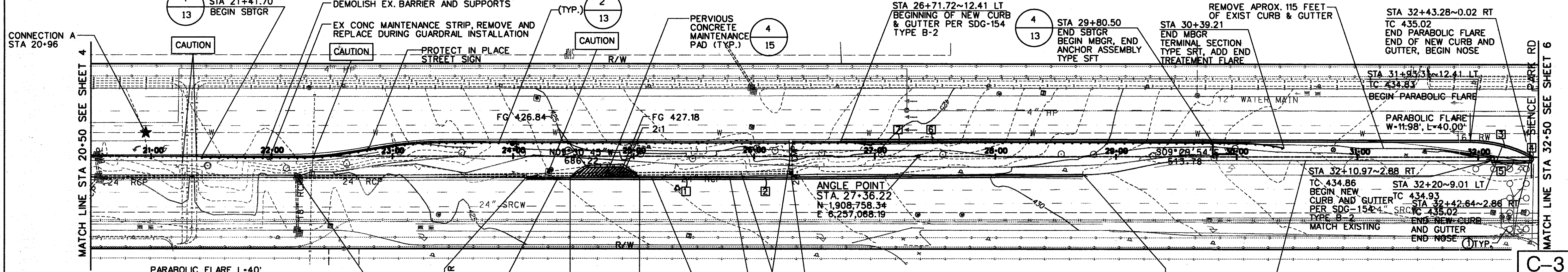
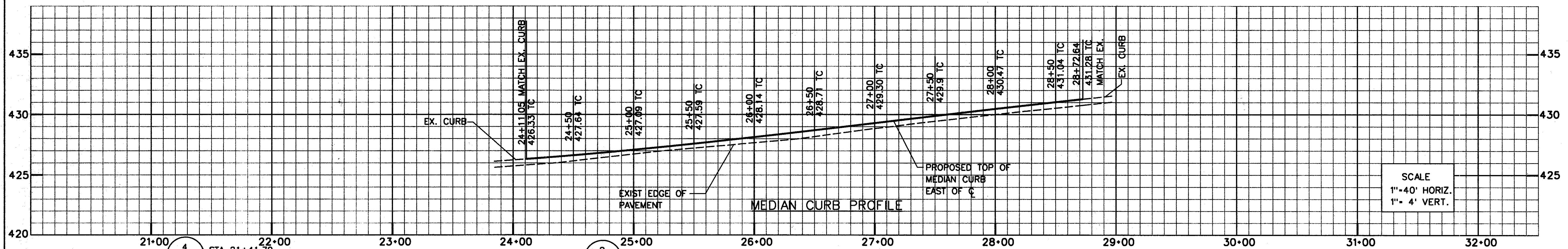
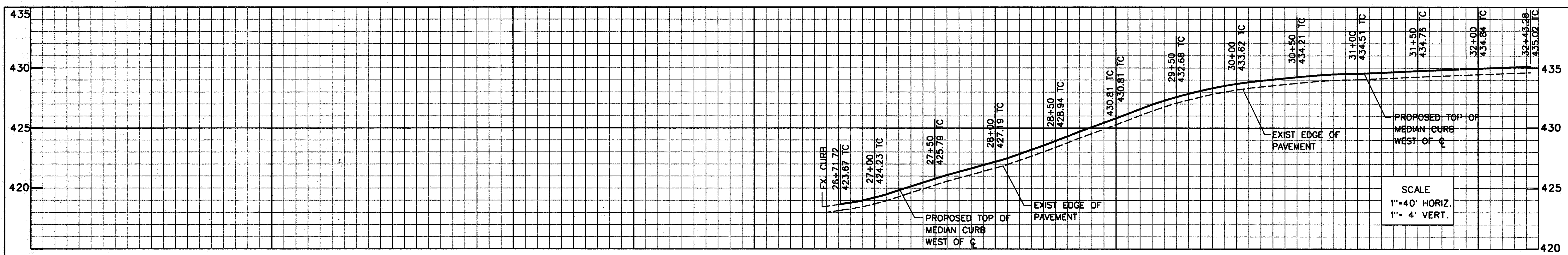
APPROVED: *[Signature]*
DATE: 4-19-13

C-2

MATCH LINE STA 8+50 SEE SHEET 3

MATCH LINE STA 20+50 SEE SHEET 5

NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT

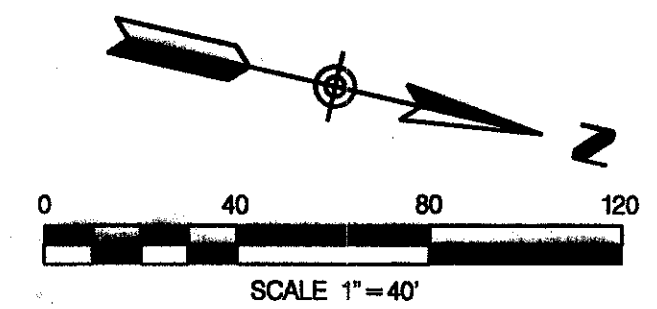


PROPOSED CURB DATA TABLE

NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N09° 30' 45" W		184.62	SDG-154 TYPE "B-2"
2	N10° 03' 52" W		277.00	SDG-154 TYPE "B-2"
3	27° 58' 59"	106.65	52.09	SDG-154 TYPE "B-2"
4	151° 44' 29"	1.50	3.97	SDG-154 TYPE "B-2"
5	S09° 30' 04" E		31.67	SDG-154 TYPE "B-2"
6	S09° 29' 54" E		457.07	SDG-154 TYPE "B-2"
7	N09° 30' 45" W		64.52	SDG-154 TYPE "B-2"

MEDIAN TAPER

DISTANCE X (FT)	10	20	30	40
OFFSET Y (FT)	0.76	2.95	6.70	11.89



NOTES:

1 ANY DAMAGE TO THE EX. TRAFFIC EQUIPMENT SHALL BE REPLACED IN KIND AT THE CONTRACTORS EXPENSE.

2 TYP. OF ALL INTERSECTIONS INCLUDED IN THIS PROJECT.

3 LOCATION OF THE EX. TRAFFIC LOOPS IS APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE TO FIND OUT THE EXACT LOCATION AND TYPE OF THE EQUIPMENT.



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APPROVED: *[Signature]*
 DATE: 4-15-13

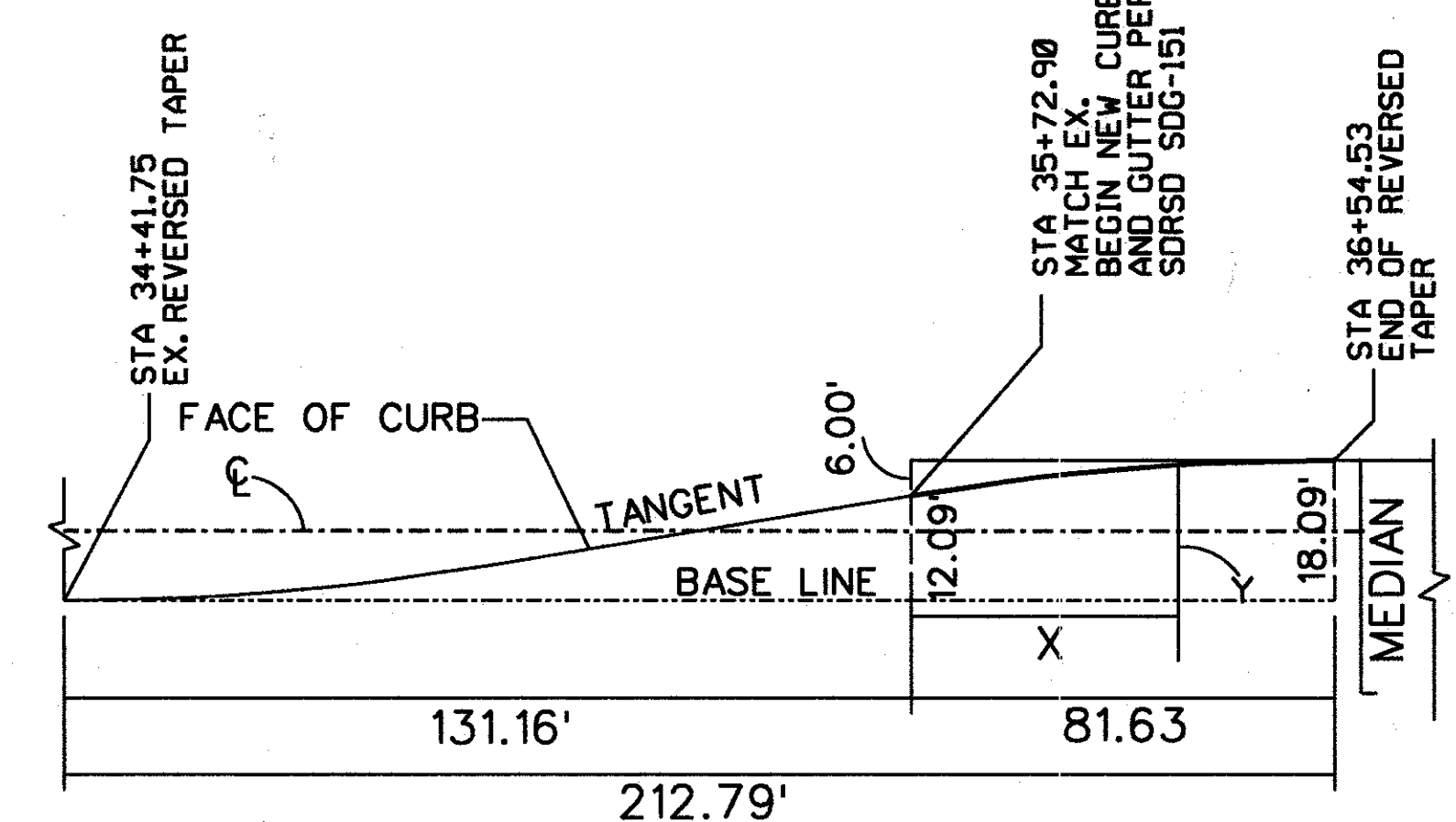
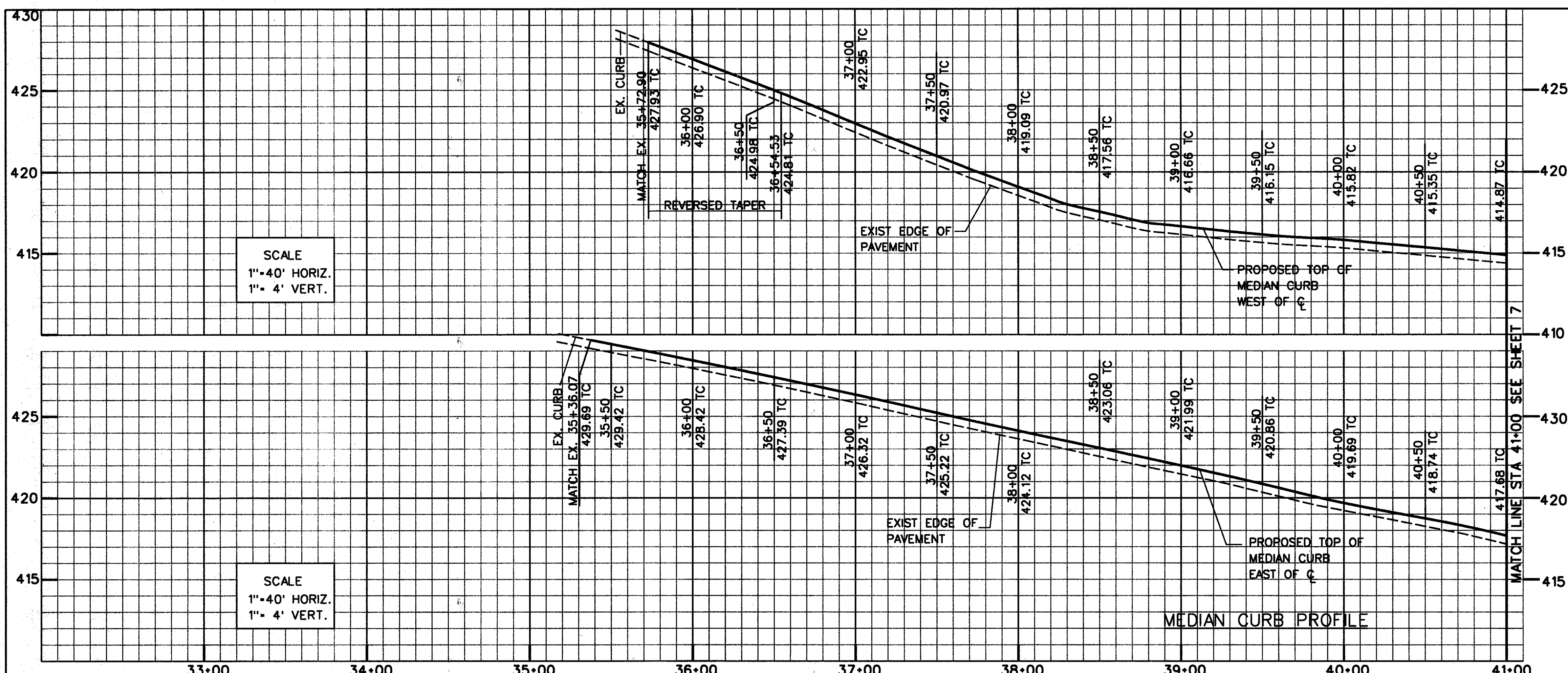
PLANS FOR THE CONSTRUCTION OF
**NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT**
 STATE RESERVE BOUNDARY
 CURB & GUTTER PLAN AND PROFILE
 STA 20+50 TO STA 32+50

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 5 OF 41 SHEETS

WBS S-00868

FOR CITY ENGINEER	DATE	6/11/13	PROJECT MANAGER
ORIGINAL	TCE	APPROVED	LOUIS SCHULTZ
		DATE	SABEEN COCHINWALA
		FILED	PROJECT ENGINEER
			266-1695
			CCS27 COORDINATE
			6256407-1906444
			CCS83 COORDINATE
CONTRACTOR	DATE STARTED		36665-05-D
INSPECTOR	DATE COMPLETED		

NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT

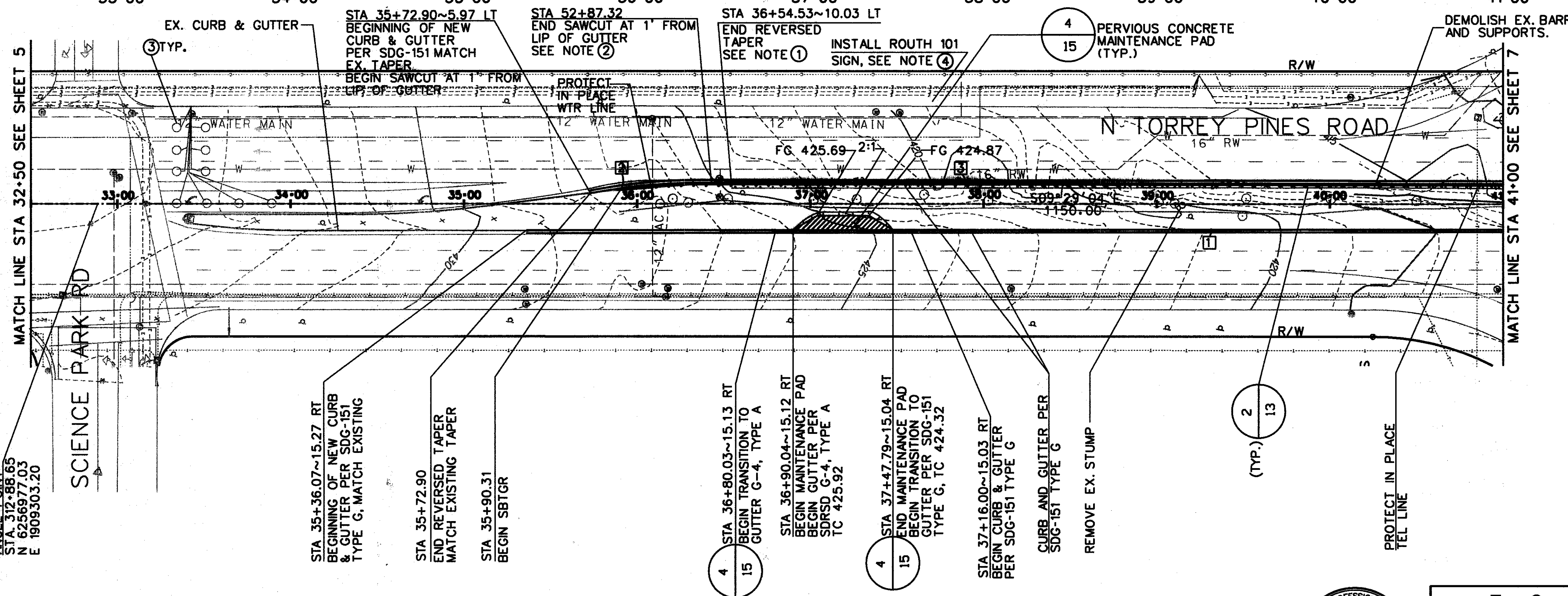


DISTANCE X (FT)	10	20	30	40	50	81.63
OFFSET Y (FT)	13.80	15.28	16.43	17.30	17.83	18.09

MEDIAN TAPER PER SDRSD SDM-101
PART PLAN
NTS

PROPOSED CURB DATA TABLE			
NO.	Δ/BEARING	RADIUS	LENGTH REMARKS
1	N09° 33' 41" W		563.87' SDG-151
2	N/A	4.36.61'	81.79' SDG-151
3	N09° 25' 38" W		444.73' SDG-151

- NOTES :
- CONSTRUCT PART OF TAPER PER DETAIL SHOWN ABOVE.
 - SAW-CUT & REMOVE EX. PAVEMENT TO INSTALL TO INSTALL CURB AND GUTTER. SEE CONSTRUCTION NOTE 5 FOR PAVEMENT REPLACEMENT TO MATCH EX AC PAVEMENT.
 - ANY DAMAGE TO THE EX. TRAFFIC EQUIPMENT SHALL BE REPLACED IN KIND AT THE CONTRACTORS EXPENSE. TYP. OF ALL INTERSECTIONS INCLUDED IN THIS PROJECT. LOCATION OF THE EX. TRAFFIC LOOPS IS APPROXIMATE ONLY AND THE CONTRACTOR IS RESPONSIBLE TO FIND OUT THE EXACT LOCATION OF THE EQUIPMENT.
 - INSTALL HISTORIC ROUTE 101 SIGN ON EX STREET LIGHT POLE ON SOUTH BOUND N TORREY PINES RD SIGN TO BE PROVIDED BY RESIDENT ENGINEER. THE SPECIFIC STREET LIGHT REFERRED IS LOCATED AT THE HILTON DRIVEWAY.



ANGLE POINT
STA. 312+88.65
N 62°56'97.03
E 1909303.20

STA 35+36.07~15.27 RT
BEGINNING OF NEW CURB
PER SDRSD PER SDG-151
TYPE G, MATCH EXISTING

STA 35+72.90
END REVERSED TAPER
MATCH EXISTING TAPER

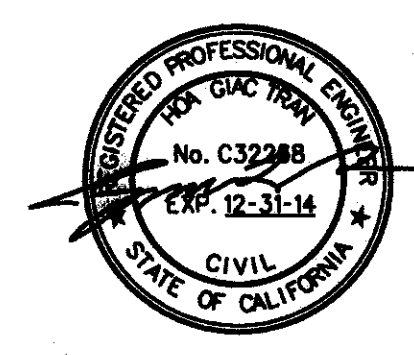
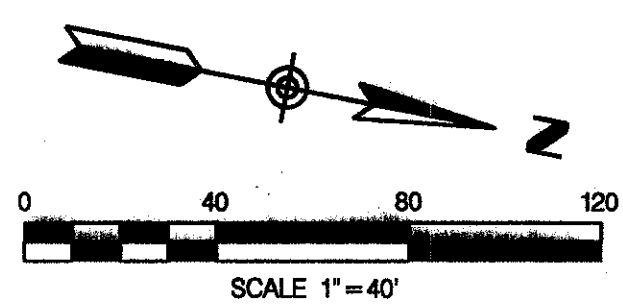
STA 35+90.31
BEGIN SBTGR

4
15
STA 36+80.03~15.13 RT
BEGIN TRANSITION TO
GUTTER G-4, TYPE A

STA 36+90.04~15.12 RT
BEGIN MAINTENANCE PAD
BEGIN GUTTER PER
SDRSD G-4, TYPE A
TC 425.92

4
15
STA 37+47.79~15.04 RT
END MAINTENANCE PAD
BEGIN TRANSITION TO
GUTTER PER SDG-151
TYPE G, TC 424.32

STA 37+16.00~15.03 RT
BEGIN CURB & GUTTER
PER SDG-151 TYPE G



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APPROVED: *[Signature]*
DATE: 4-15-13

PLANS FOR THE CONSTRUCTION OF
**NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENT**
STATE RESERVE BOUNDARY
CURB & GUTTER PLAN AND PROFILE
STA 32+50 TO STA 41+00

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 6 OF 41 SHEETS
WBS S-00868

APPROVED: *[Signature]* 6/10/13
FOR CITY ENGINEER DATE

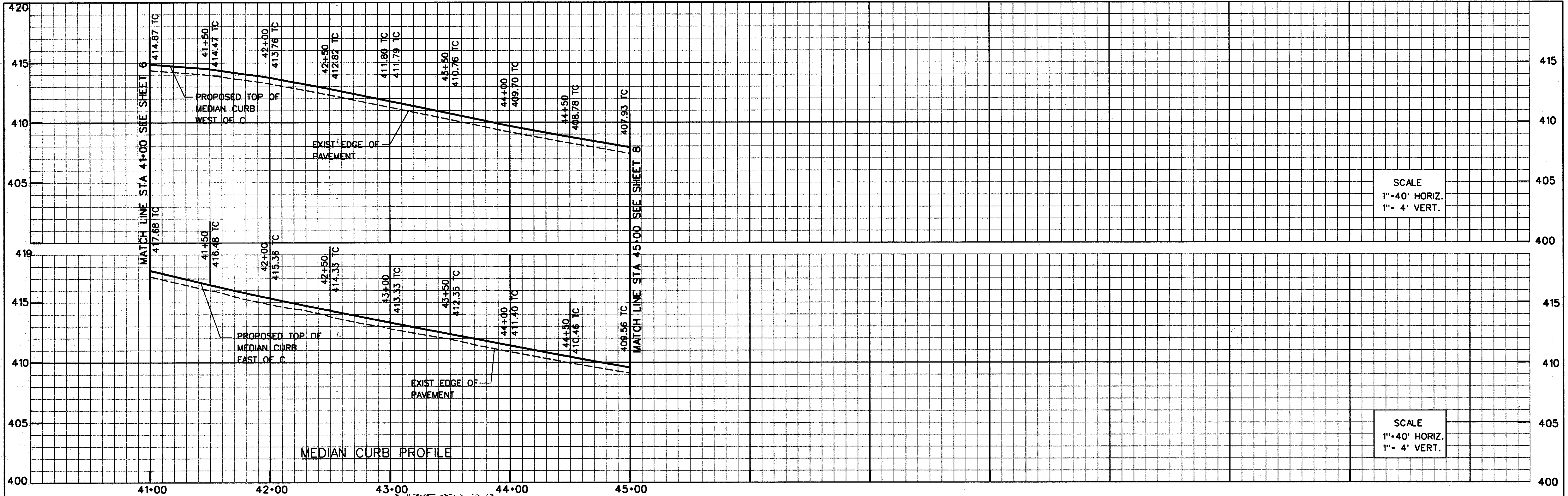
DESIGNED BY: *[Signature]*
PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	TCE			

PROJECT ENGINEER: **SABEEN COCHINWALA**
266-1695
CCSB2 COORDINATE
6256407-1906444
CCSB3 COORDINATE
36665-06-D

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

C-4



SCALE
1" = 40' HORIZ.
1" = 4' VERT.

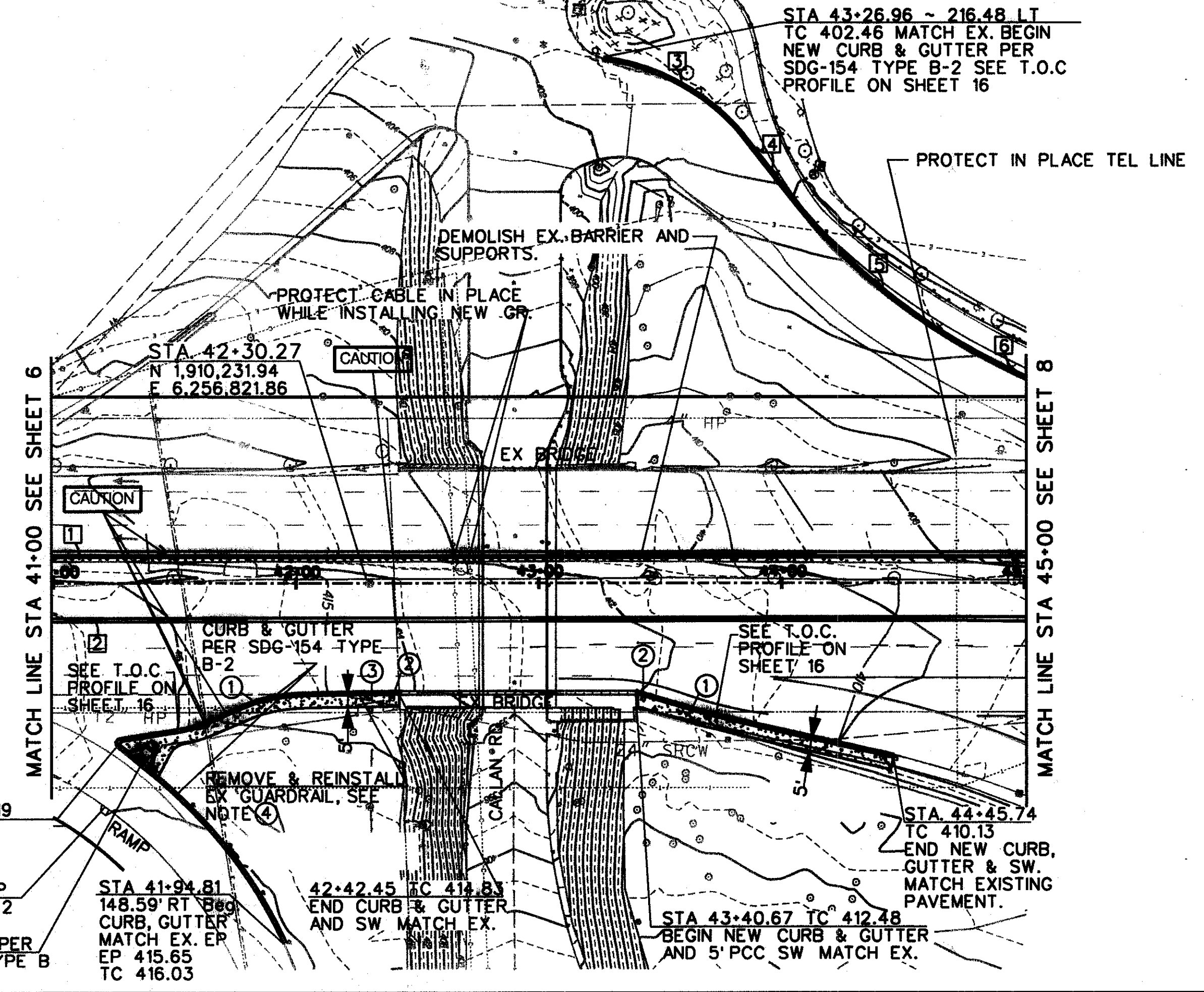
SCALE
1" = 40' HORIZ.
1" = 4' VERT.

MEDIAN CURB PROFILE

PROPOSED CURB DATA TABLE					
NO.	Δ/BEARING	RADIUS	LENGTH	SDG	REMARKS
1	N09° 25' 38" W		400.89'	SDG-151	
2	N09° 33' 41" W		400.90'	SDG-151	
3	41° 04' 16"	97.47'	65.57'	SDG-154 TYPE B-2	
4	S42° 36' 36" W		33.53'	SDG-154 TYPE B-2	
5	23° 17' 38"	250.00'	101.64'	SDG-154 TYPE B-2	
6	23° 10' 44"	356.64'	23.93'	SDG-154 TYPE B-2	

- NOTES :**
- REMOVE EX. PAVEMENT AND AC DIKE TO INSTALL NEW 5' WIDE SIDEWALK (INCLUDING 6" CURB) WITH 1.5% CROSS SLOPE PER SDG-155 AND NEW CURB AND GUTTER PER SDG-151.
 - TRAFFIC SIGNAL BOX ADJUST TO NEW SIDEWALK ELEV. AND PROTECT IN PLACE.
 - UTILITY BOX TO BE PROTECTED IN PLACE.
 - REMOVE EX GUARDRAIL AND REINSTALL AFTER CURB, GUTTER, AND SIDEWALK HAVE BEEN INSTALLED. ADD END TREATMENT FLARE ON BOTH TERMINATING ENDS OF GUARDRAIL. INSTALL GUARDRAIL POST INTO 4" 2 SACK SLURRY PER SDM-130.

C-5



STA 41-28.13 TC 417.19
BEGIN NEW 5' PCC SW
PER SDG-155, TYPE C-2
CONTIGUOUS

REPLACE EX PED RAMP
PER SDG-135, TYPE C-2

3
15
PED RAMP PER
SDG-132, TYPE B

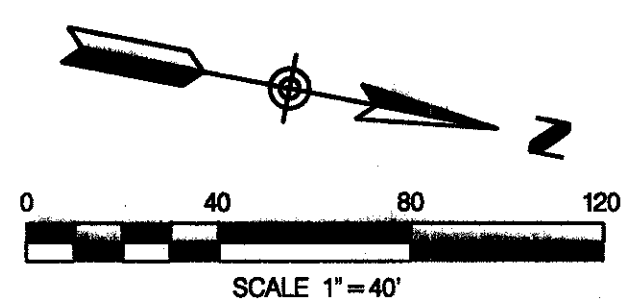
STA 41-94.81
148.59' RT
END CURB, GUTTER
MATCH EX. EP
EP 415.65
TC 416.03

42-42.45 TC 417.83
END CURB & GUTTER
AND SW MATCH EX.

STA 43-26.96 ~ 216.48 LT
TC 402.46 MATCH EX. BEGIN
NEW CURB & GUTTER PER
SDG-154 TYPE B-2 SEE T.O.C
PROFILE ON SHEET 16

STA 43-40.67 TC 412.48
BEGIN NEW CURB & GUTTER
AND 5' PCC SW MATCH EX.

STA 44-45.74
TC 410.13
END NEW CURB,
GUTTER & SW
MATCH EXISTING
PAVEMENT.

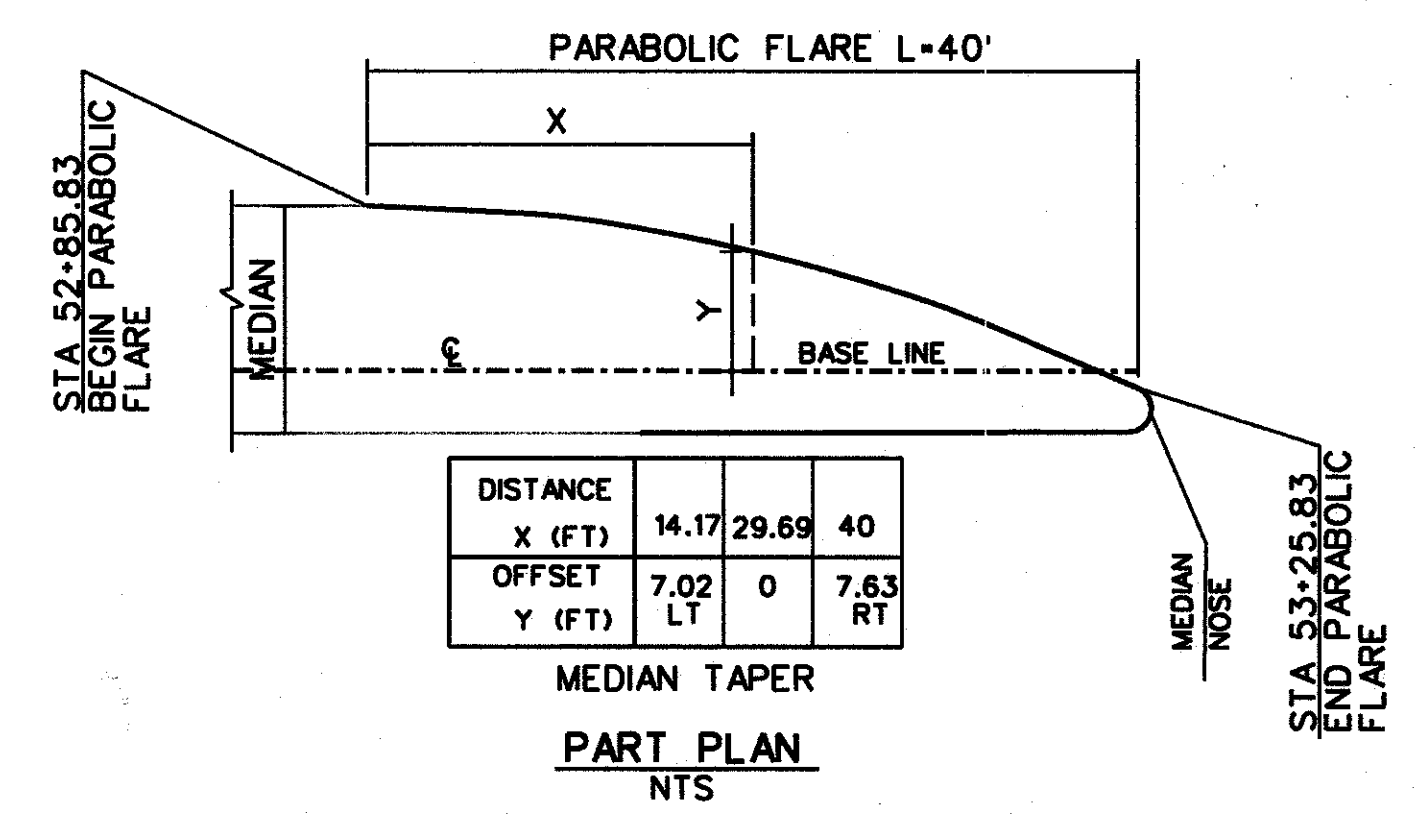
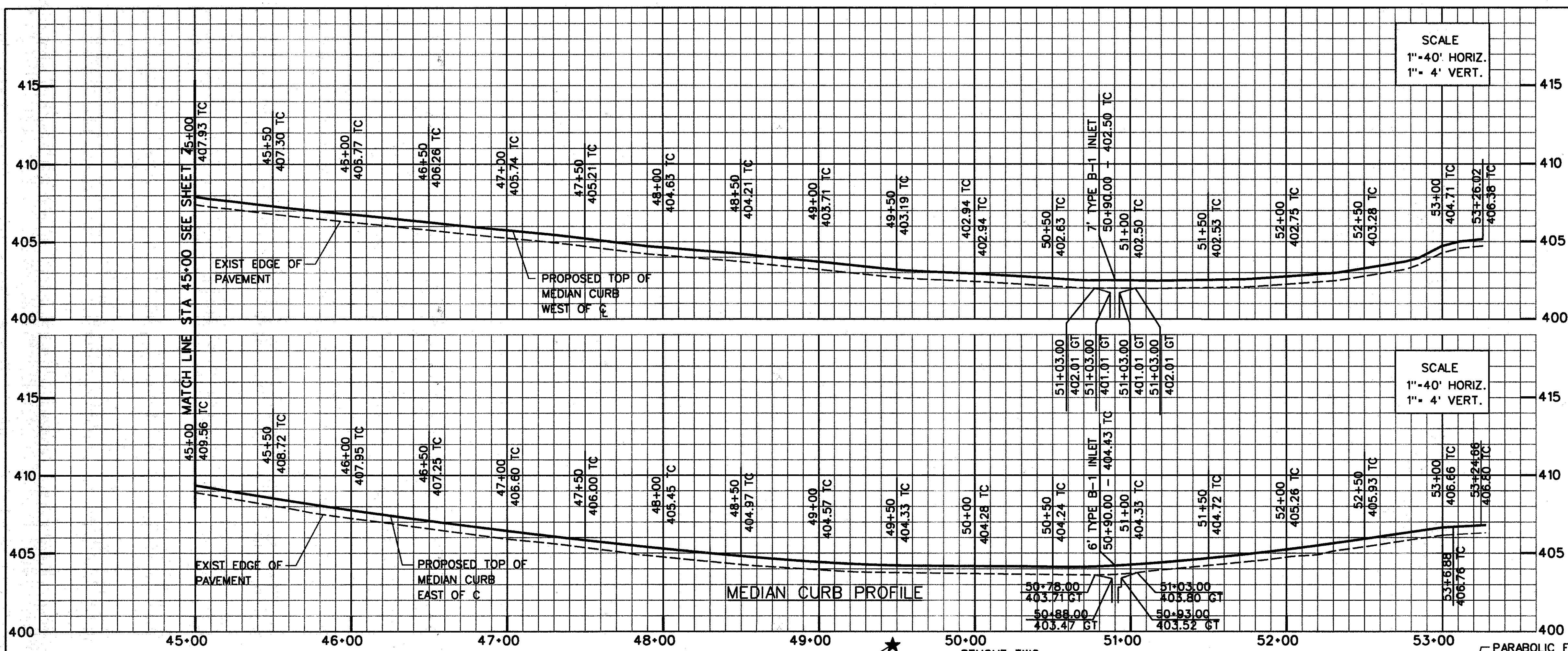


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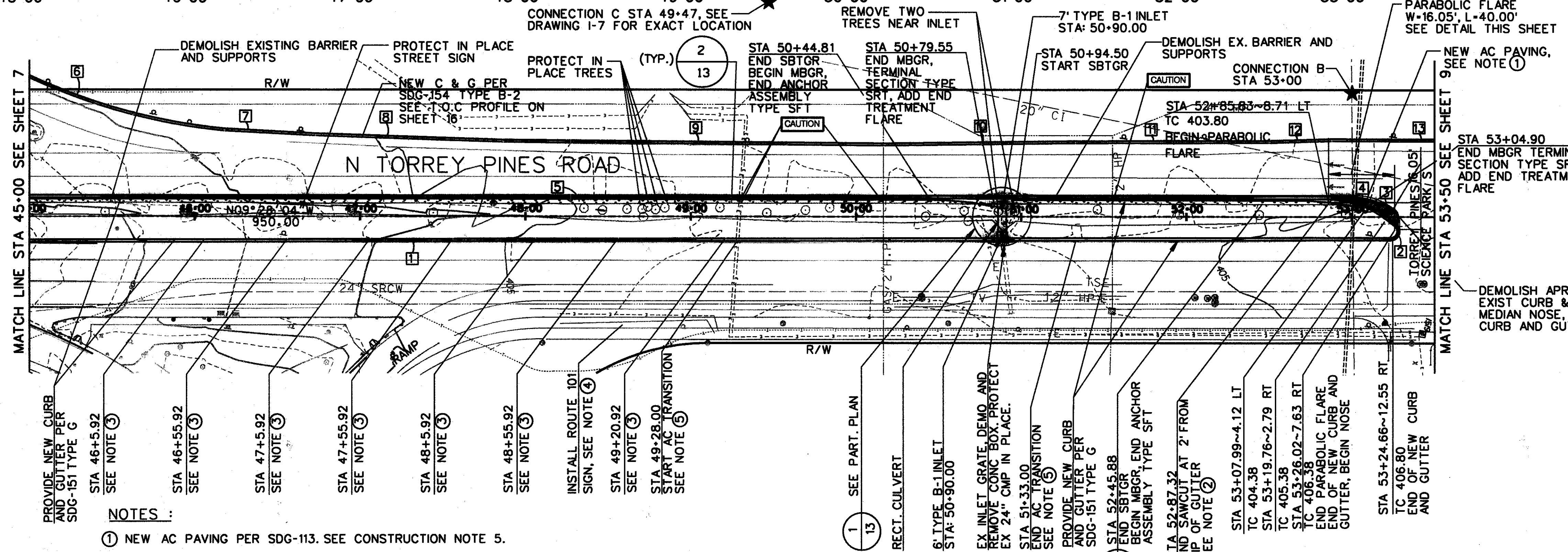
APPROVED: *[Signature]*
DATE: 4-13-13

PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY CURB & GUTTER PLAN AND PROFILE STA 41+00 TO STA 45+00			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 7 OF 41 SHEETS		WBS S-00868	
FOR CITY ENGINEER <i>[Signature]</i>	DATE 6/11/13	SUBMITTED BY LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION ORIGINAL	BY TCE	APPROVED DATE	FILED DATE
		SABEEN COCHINWALA PROJECT ENGINEER	
		266-1695 COSBY COORDINATE	
		6256407-1906444 COSBY COORDINATE	
CONTRACTOR	DATE STARTED	36665-07-D	
INSPECTOR	DATE COMPLETED		

NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT

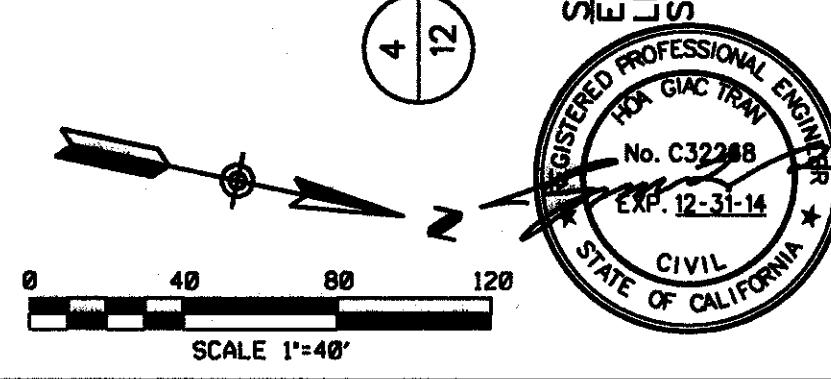


PROPOSED CURB DATA TABLE				
NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N09°33'41"W		823.73'	SDG-151
2	137°27'17"	3.91'	9.38'	SDG-151
3	16°07'39"	84.97'	23.92'	SDG-151
4	21°06'38"	55.62'	20.49'	SDG-151
5	N09°25'38"W		785.68'	SDG-151
6	23°10'44"	356.64'	123.12'	SDG-154 TYPE B-2
7	S06°25'41"E		55.13'	SDG-154 TYPE B-2
8	S07°29'59"E		113.40'	SDG-154 TYPE B-2
9	S08°57'20"E		230.84'	SDG-154 TYPE B-2
10	S10°10'21"E		115.75'	SDG-154 TYPE B-2
11	S09°36'24"E		116.91'	SDG-154 TYPE B-2
12	N11°09'42"W		37.92'	SDG-154 TYPE B-2
13	S09°17'12"E		61.97'	SDG-154 TYPE B-2



- NOTES:**
- NEW AC PAVING PER SDG-113. SEE CONSTRUCTION NOTE 5.
 - SAW-CUT & REMOVE EX. PAVEMENT TO INSTALL CURB AND GUTTER. MATCH EX PAVEMENT AS DESCRIBED IN CONSTRUCTION NOTE 5.
 - PROVIDE 45° CURB OPENINGS PER DETAILS 5 AND 6 AS SHOWN ON SHEET 15.
 - INSTALL HISTORIC ROUTE 101 SIGN ON EX STREETLIGHT POLE (LOCATED AFTER RAMP) ABOVE NO PARKING SIGN. SIGN TO BE PROVIDED BY RESIDENT ENGINEER.
 - AFTER THE INSTALLATION OF NEW CURB AND GUTTER, SAW CUT AC 3' AWAY FROM EDGE OF GUTTER; FROM STA 49+28.00 TO STA 51+33.00. RESURFACE AC TO CREATE 3' TRANSITION FROM EX AC TO EDGE OF GUTTER WITH 14" FULL DEPTH AC PAVEMENT.

CAUTION: CONTRACTOR TO VERIFY EXACT LOCATION OF EXIST UTILITIES PRIOR TO CONSTRUCTION



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 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13

PLANS FOR THE CONSTRUCTION OF
NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT
 CURB & GUTTER PLAN AND PROFILE
 STA 45+00 TO STA 53+50

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 8 OF 41 SHEETS

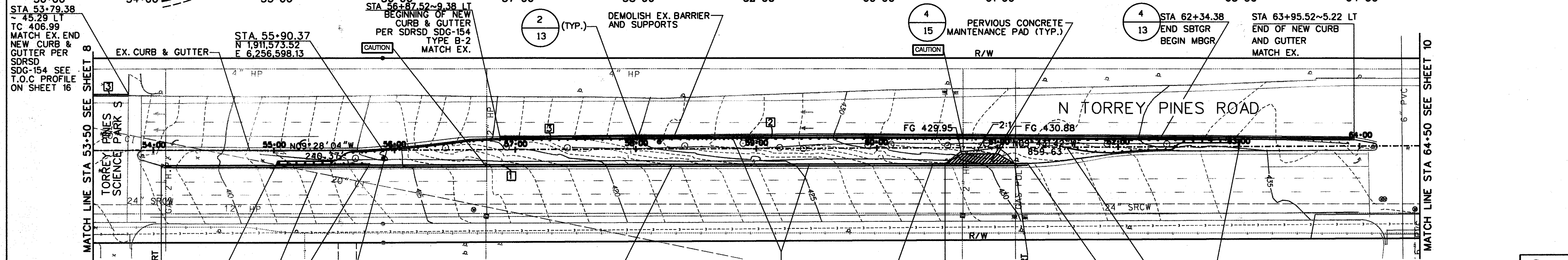
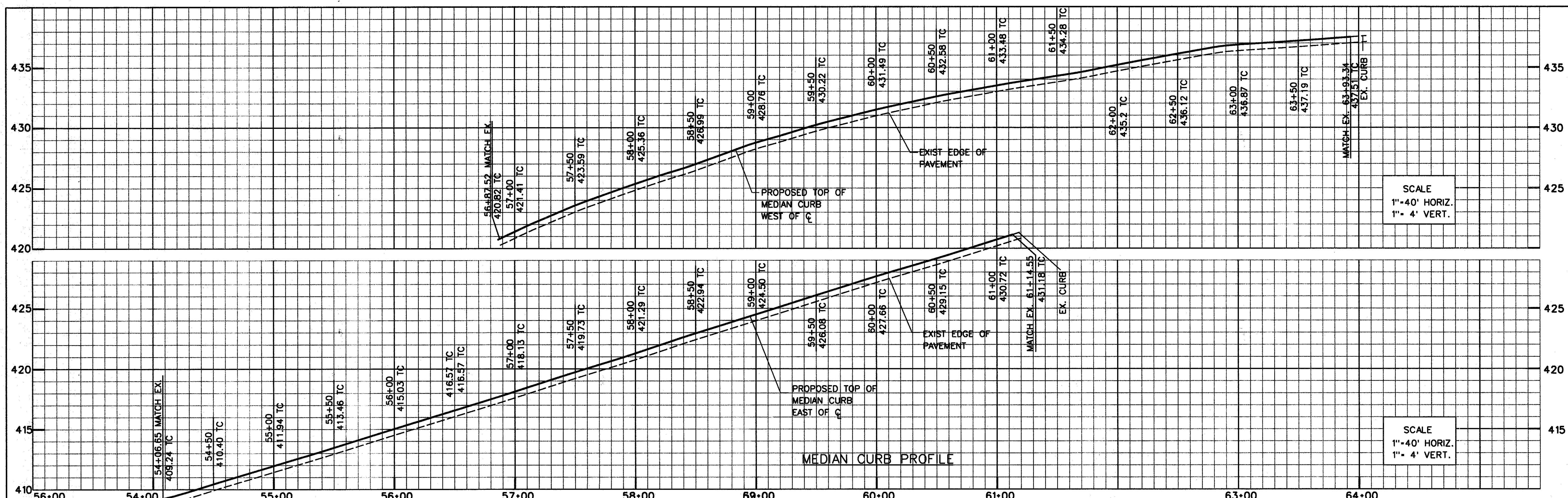
WBS S-00868

FOR CITY ENGINEER: *[Signature]* DATE: 6/11/13
 PROJECT MANAGER: LOUIS SCHULTZ
 PROJECT ENGINEER: SABEEN COCHINWALA
 CC827 COORDINATE: 270-1695
 CC883 COORDINATE: 6256407-1910444

CONTRACTOR: DATE STARTED: 36665-08-D
 INSPECTOR: DATE COMPLETED:

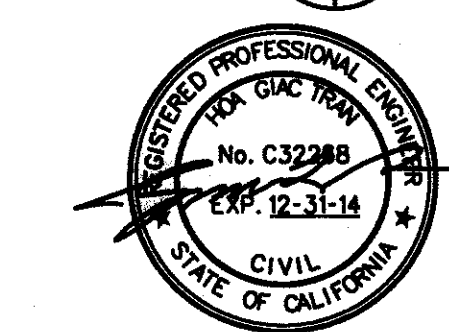
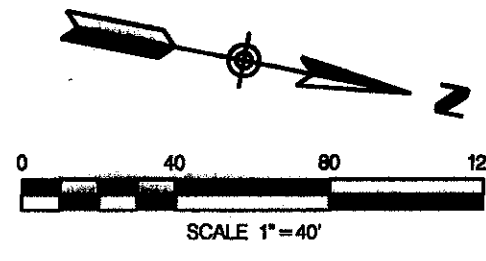
C-6

NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT



PROPOSED CURB DATA TABLE

NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N09° 36'18"W		708.31'	SDG-154 TYPE B-2
2	N09° 46'50"W		200.83'	SDG-154 TYPE B-2
3	N09° 35'17"W		111.51'	SDG-151



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 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13

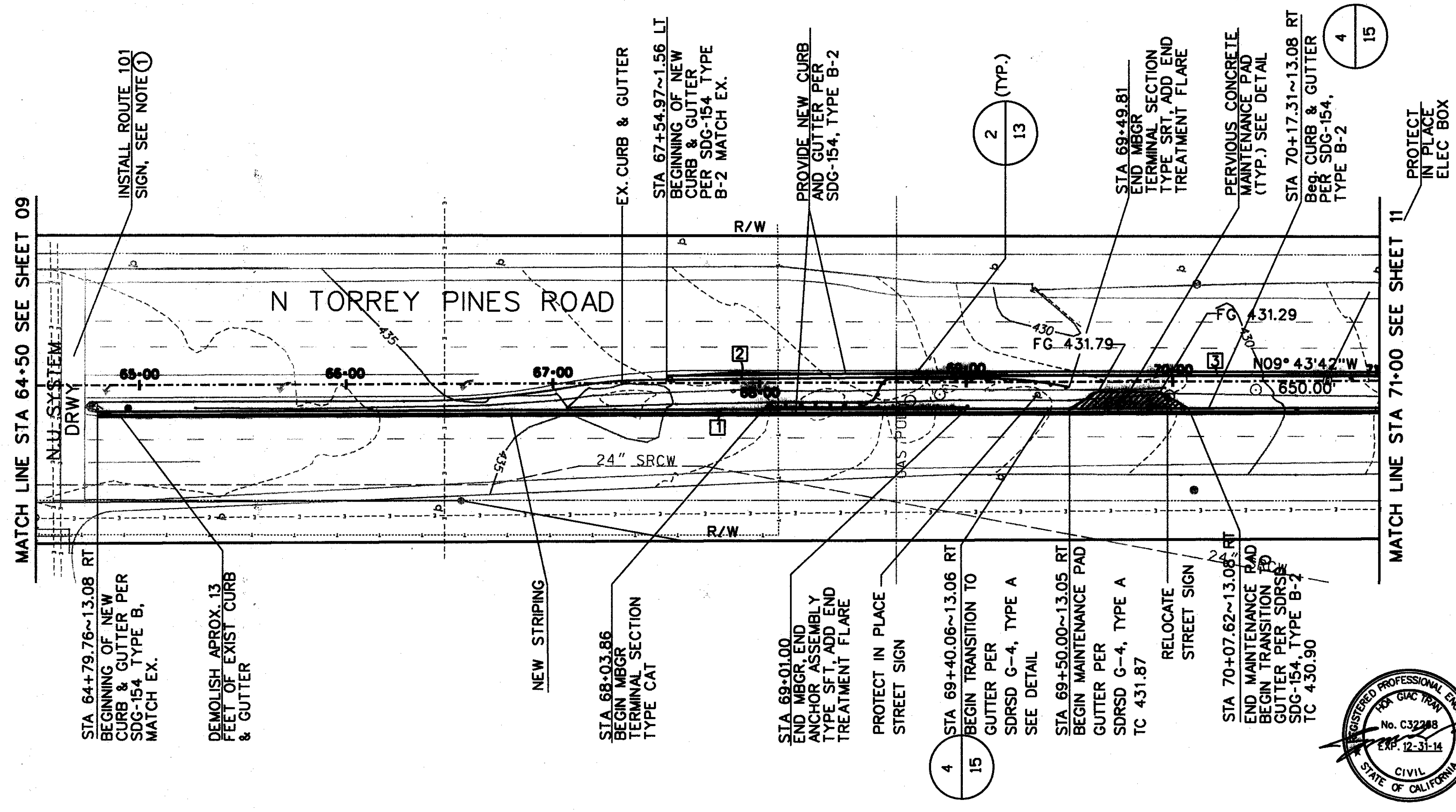
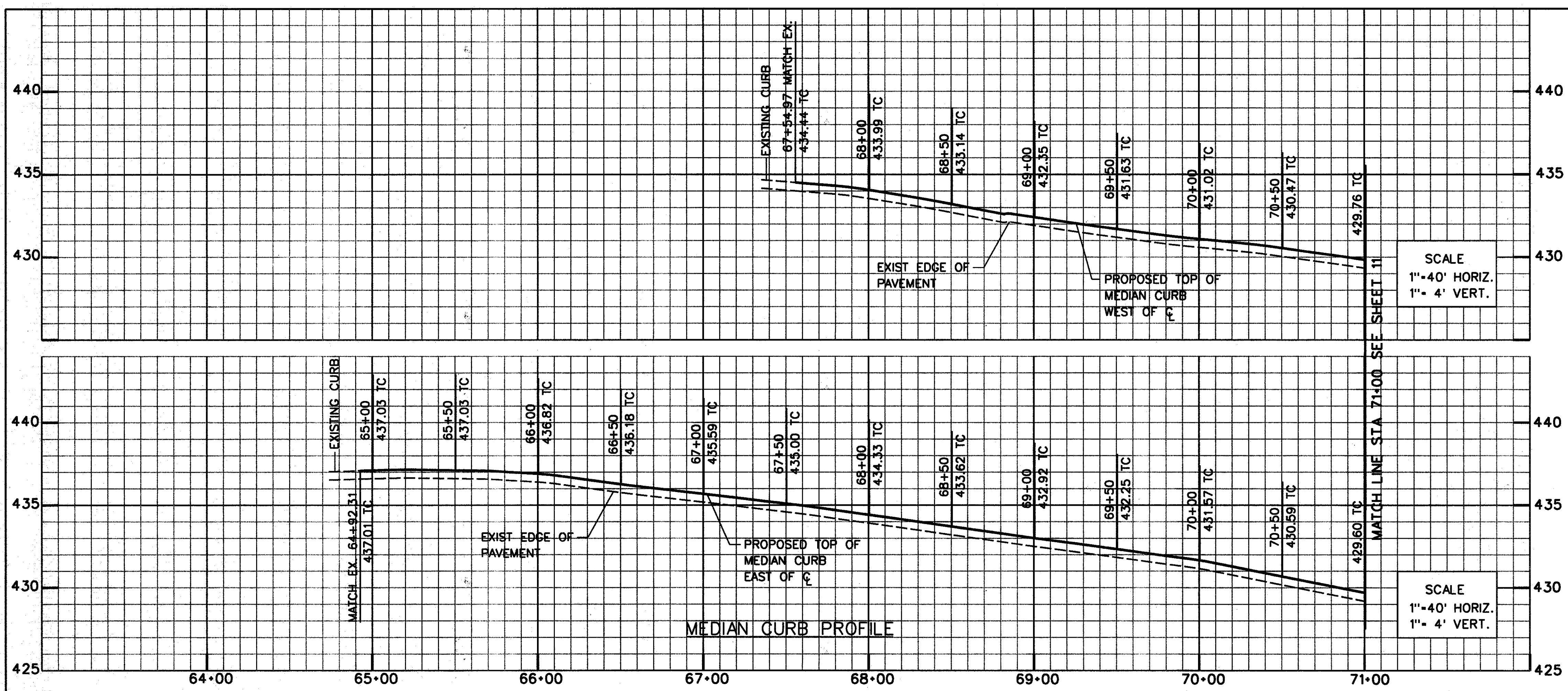
PLANS FOR THE CONSTRUCTION OF
**NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT**
 STATE RESERVE BOUNDARY
 CURB & GUTTER PLAN AND PROFILE
 STA 53+50 TO STA 64+50

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 9 OF 41 SHEETS		WBS S-00868
FOR CITY ENGINEER	DATE: 6/11/13	APPROVED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	TCE	DATE
		FILED
		DATE
		DATE
CONTRACTOR	DATE STARTED	INSPECTOR

SUBMITTED BY: **SABEEN COCHINWALA**
 PROJECT ENGINEER
 270-1695
 CC827 COORDINATE
 6256407-1910444
 CC888 COORDINATE
 36665-09-D

C-7

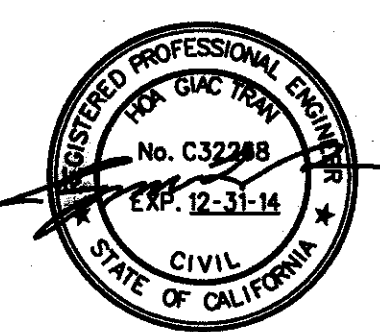
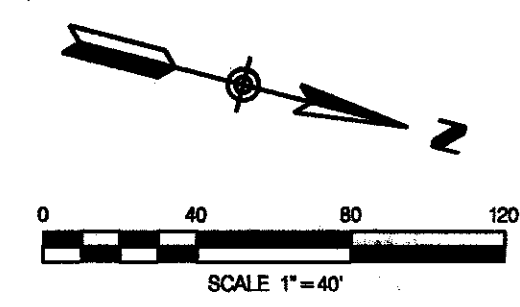
NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT



PROPOSED CURB DATA TABLE

NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N09° 42'19"W		620.00'	SDG-154 TYPE B-2
2	N 10° 11'48"W		181.20'	SDG-154 TYPE B-2
3	N 9° 25'38"W		163.77'	SDG-154 TYPE B-2

NOTE:
 ① INSTALL HISTORIC ROUTE 101 SIGN ON TRAFFIC SIGNAL POLE ON BOTH SIDES OF THE ROADWAY. SIGN TO BE PROVIDED BY RESIDENT ENGINEER.



Tran Consulting Engineers
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 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13

PLANS FOR THE CONSTRUCTION OF
**NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT**
 STATE RESERVE BOUNDARY
 CURB & GUTTER PLAN AND PROFILE
 STA 64+00 TO STA 71+00

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 10 OF 41 SHEETS

WBS S-00868

FOR CITY ENGINEER: *[Signature]* DATE: 6/11/13

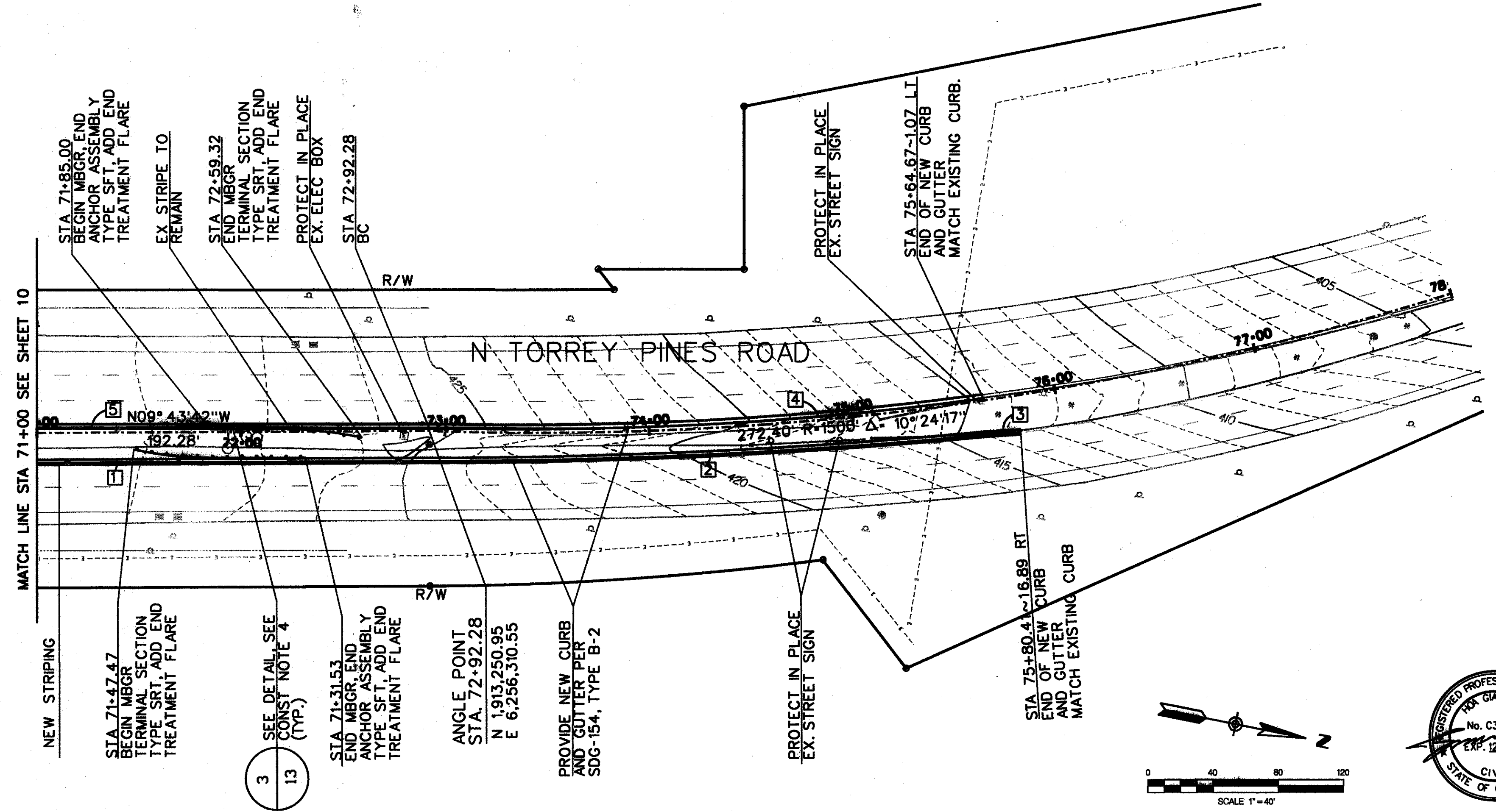
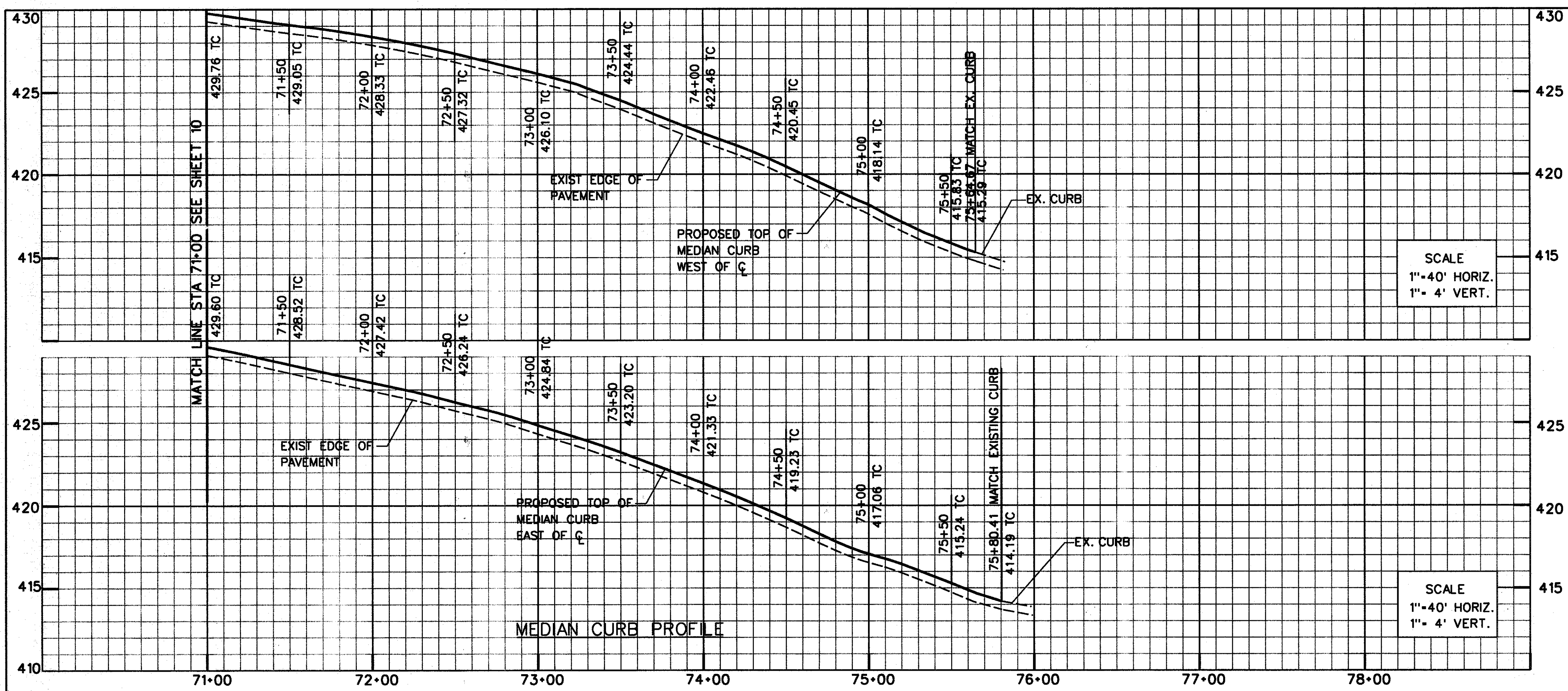
FOR ENGINEER: *[Signature]* DATE: 6/11/13

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	TCE			

PROJECT MANAGER: LOUIS SCHULTZ
 PROJECT ENGINEER: SABEEN COCHINWALA
 270-1695
 CCS87 COORDINATE: 6256407-191044.4
 CCS88 COORDINATE: 36665-10-D

CONTRACTOR: DATE STARTED: DATE COMPLETED:

C-8



PROPOSED CURB DATA TABLE				
NO.	Δ/BEARING	RADIUS	LENGTH	REMARKS
1	N09° 42' 19" W		194.20'	SDG-154 TYPE B-2
2	5° 24' 55" "	2871.66'	271.41'	SDG-154 TYPE B-2
3	N 13° 10' 40" W		16.92'	SDG-154 TYPE B-2
4	8° 53' 15" "		1679.43'	SDG-154 TYPE B-2
5	N09° 25' 38" W		204.25'	SDG-154 TYPE B-2

PLANS FOR THE CONSTRUCTION OF
**NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT**
 STATE RESERVE BOUNDARY
 CURB & GUTTER PLAN AND PROFILE
 STA 71+00 TO STA 75+80.41

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 11 OF 41 SHEETS

WBS S-00868

APPROVED: *[Signature]* DATE: 6/11/13
 FOR CITY ENGINEER

DESIGNED BY: *[Signature]* DATE: 6/11/13
 PROJECT MANAGER

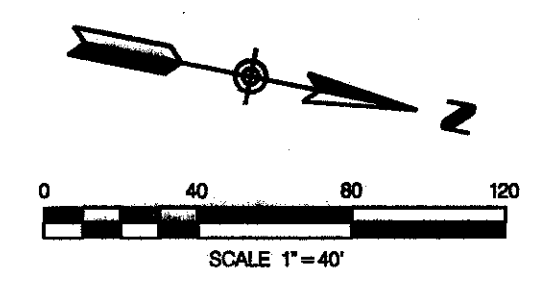
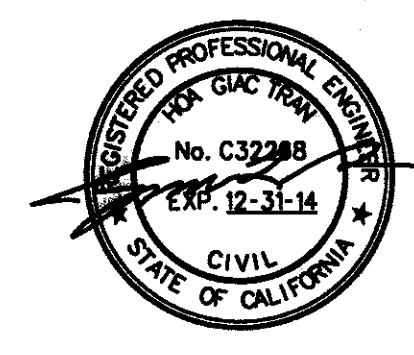
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	TCE			

PROJECT ENGINEER: **SABEEN COCHINWALA**
 PROJECT NO: 270-1895
 CDS27 COORDINATE: 6250407-1910444
 CDS83 COORDINATE: 36665-11-D

CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

Tran Consulting Engineers
 4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-562-7660, FAX 619-563-7821

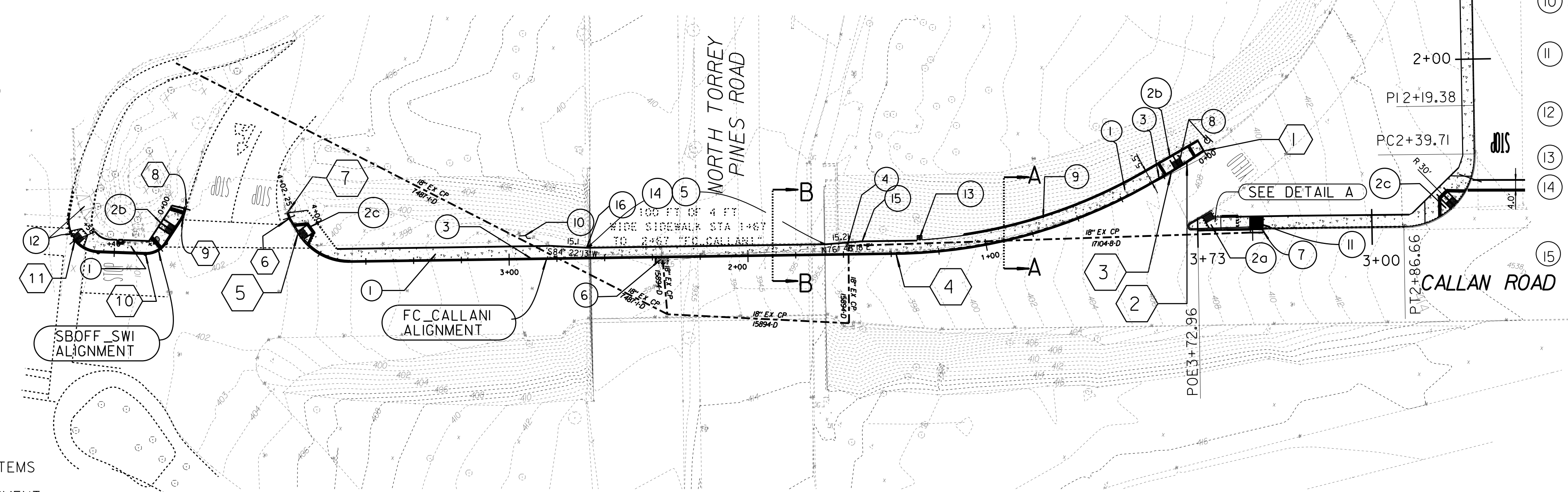
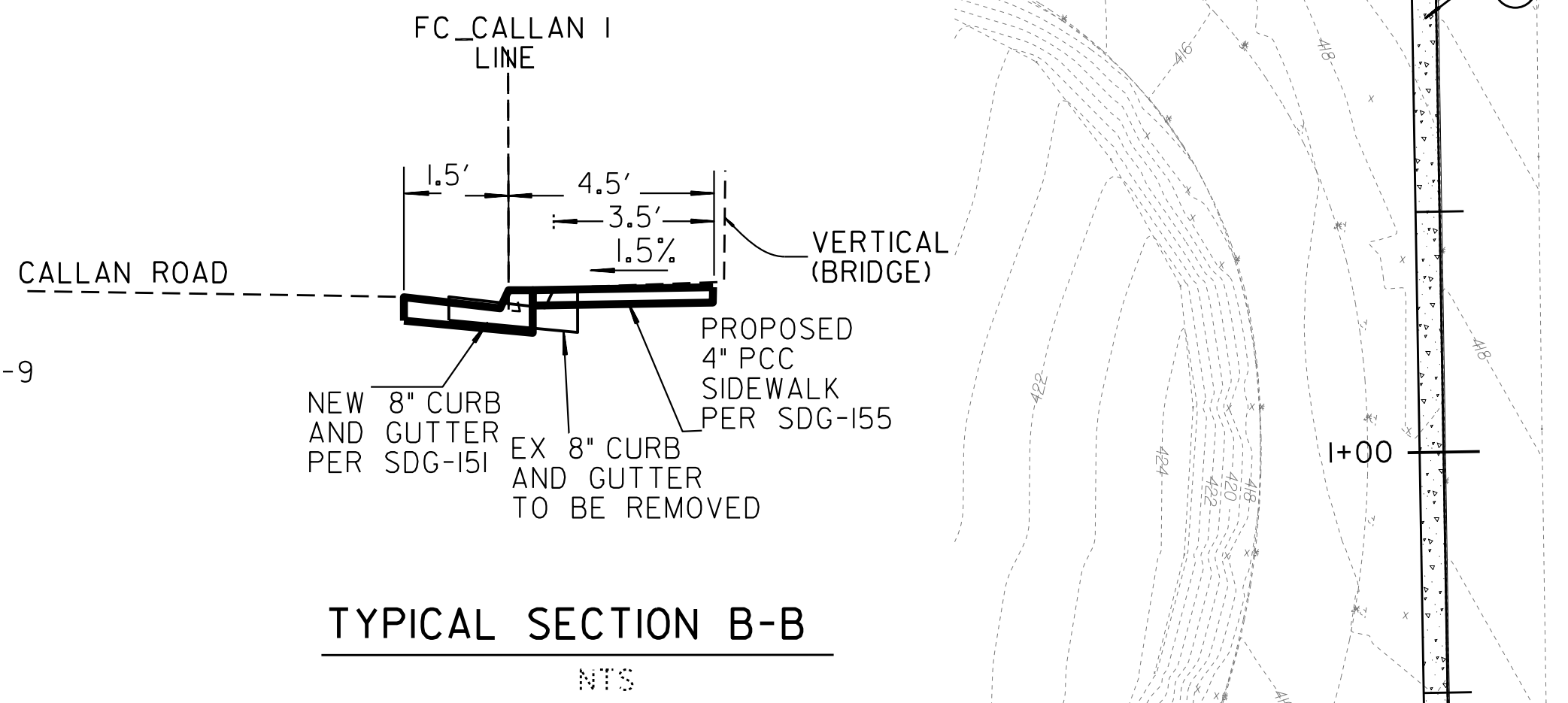
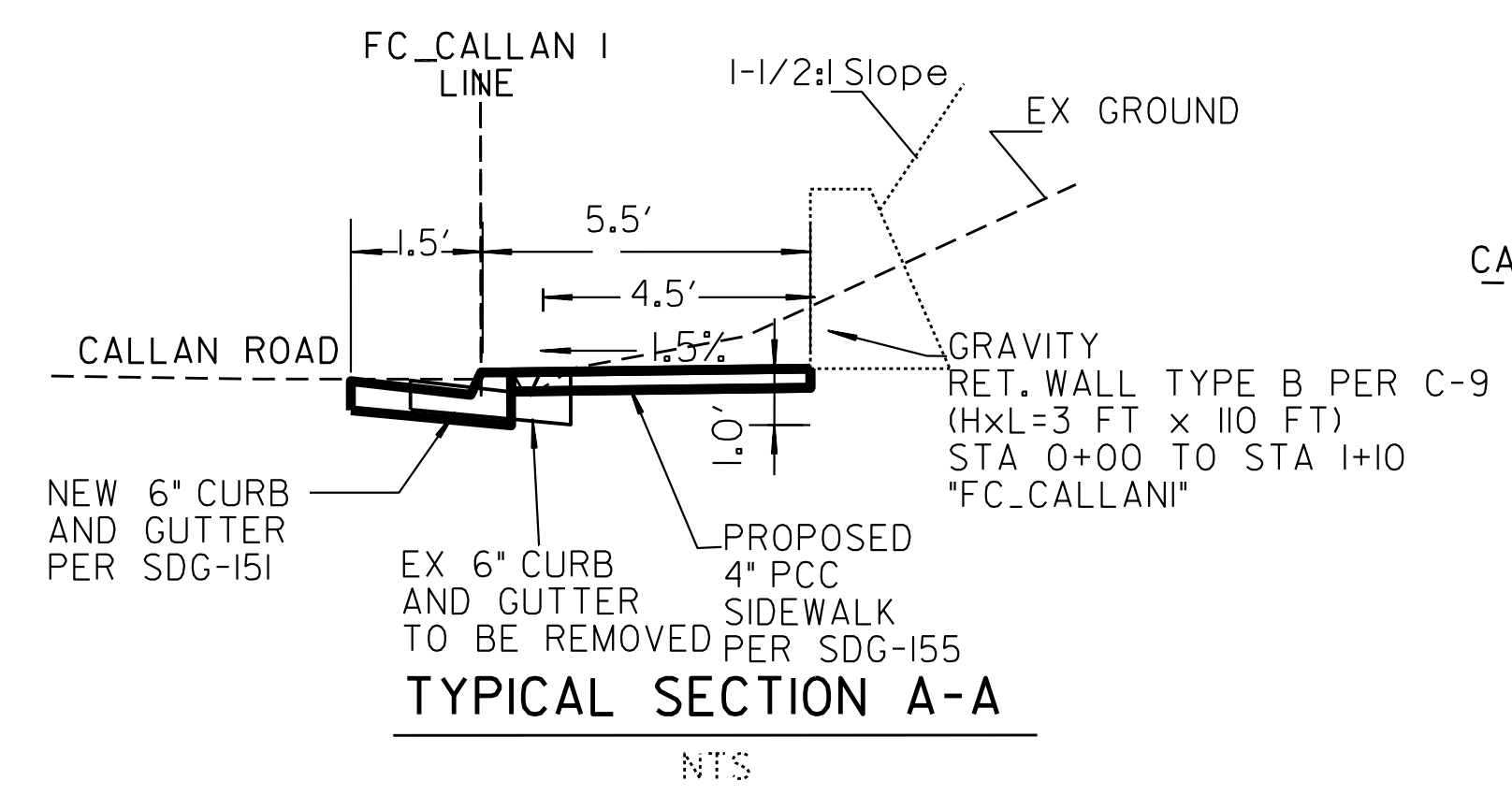
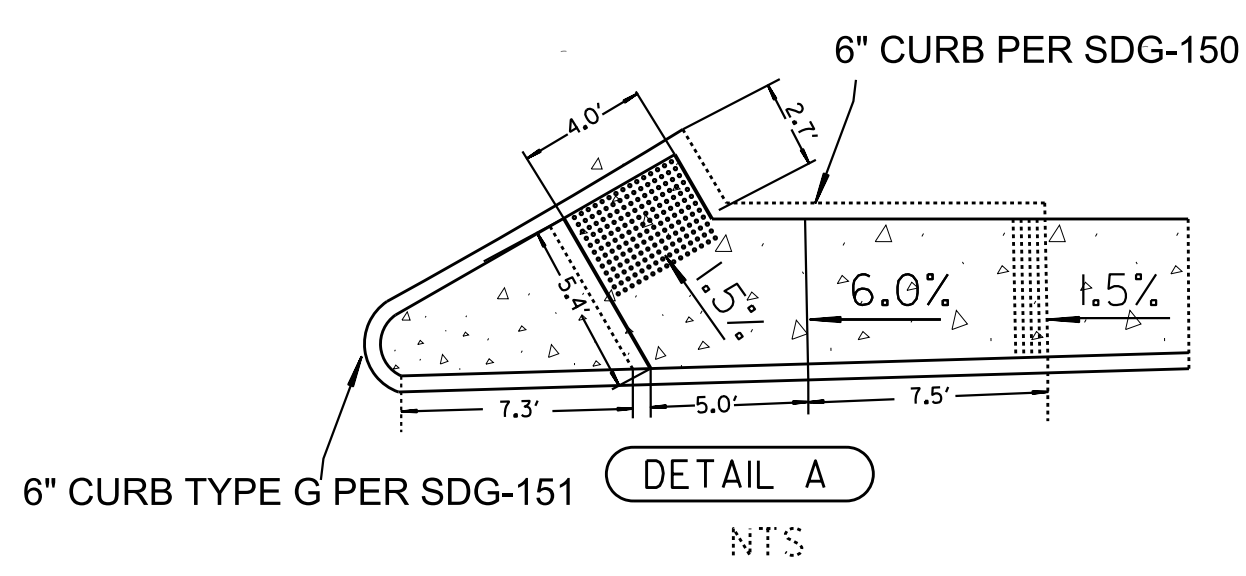
APPROVED: *[Signature]*
 DATE: 6-15-13



C-9

CONSTRUCTION NOTES:

1. INSTALL NEW 5 FT PCC SIDEWALK PER SDG-155
- 2a. INSTALL CURB RAMP SDG-136 MODIFIED TYPE D GRADE BEHIND CURB AS NECESSARY MAX 2:1 SLOPE
- 2b. INSTALL CURB RAMP SDG-134 TYPE C1 GRADE BEHIND CURB AS NECESSARY MAX 2:1 SLOPE
- 2c. INSTALL CURB RAMP SDG-132 TYPE A GRADE BEHIND CURB AS NECESSARY MAX. 2:1 SLOPE
3. REMOVE & REPLACE EXISTING CURB AND GUTTER WITH NEW CURB AND GUTTER PER SDG-151 6" TYPE G.
4. REMOVE AND REPLACE EXISTING STORM DRAIN INLET WITH SDD-I16 TYPE B CURB INLET
5. INSTALL NEW 4 FT PCC SIDEWALK PER SDG-155
6. REMOVE AND REPLACE EXISTING CATCH BASIN WITH D-29 CATCH BASIN TYPE I. ALIGN WITH NEW GUTTER FLOW LINE
7. ADJUST EXISTING UTILITY TO GRADE
8. RELOCATE EXISTING YIELD SIGN TO A NEW LOCATION BEHIND SIDEWALK START AS INDICATED
9. INSTALL 3.0 FT HIGH RET. WALL TYPE B PER C-9 SDRSD FROM STA 0+00 TO 1+10 "FC_CALLANI"
10. REMOVE EXISTING CURB AND AC BEHIND NEW SIDEWALK AND GRADE TO MATCH EXISTING SLOPES
11. EXISTING STORM DRAIN BOX TO REMAIN START NEW CURB AND GUTTER AND MATCH ELEVATION OF EXISTING CURB AND SD BOX
12. DEMOLISH EXISTING CURB RAMP AND INSTALL NEW CURB RAMP TYPE D PER SDG-136
13. RELOCATE EXISTING STREET LIGHT BEHIND PROPOSED SIDEWALK PER SDE 101
14. REMOVE EXISTING CURB AND GUTTER AND INSTALL NEW 8" CURB AND GUTTER PER SDG-151 TYPE G. NEW CURB ALIGNMENT: 1' SOUTH OF EXISTING CURB FOR 4' SIDEWALK.
15. TRANSITION SIDEWALK TO/FROM 5' WIDE SIDEWALK TO 4' WIDE SIDEWALK

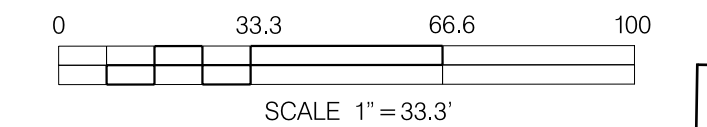


LEGEND:

- (X) = CONSTRUCTION NOTES OR ITEMS
- (X) = POINT ID NUMBERS IN ALIGNMENT

FC CALLAN LINE - ALIGNMENT SBDOFF_SW1											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
8	S 8°25'23" W	3.56'	1910290.35	6256593.41		0+00.00					
9	S 24°43'00" W	13.21'	1910286.83	6256592.89		0+03.56					
10	S 83°29'03" W	25.33'	1910269.71	6256585.01	0+16.77		0+27.03	58°46'03"	10.00'	10.26'	5.63'
11	N 47°17'10" W		1910266.14	6256553.78	0+46.72		0+58.17	49°13'48"	13.33'	11.45'	6.10'

FC CALLAN LINE - ALIGNMENT FC_callan1											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
1	S 47°36'56" W	8.53'	1910377.93	6257011.27		0+00.00					
2	S 49°43'04" W	7.68'	1910372.18	6257004.97		0+08.53					
3	S 51°26'37" W	8.51'	1910367.22	6256999.11		0+16.22					
4	S 80°34'24" W	286.59'	1910325.55	6256947.41	0+24.72		1+37.93	29°29'00"	220.00'	113.21'	57.89'
5	N 39°49'43" W	21.47'	1910276.27	6256650.57	3+66.64		3+92.64	59°35'52"	25.00'	26.00'	14.32'
6	N 27°28'34" W	2.45'	1910292.76	6256636.82		3+99.80					
7			1910294.93	6256635.68		4+02.25					

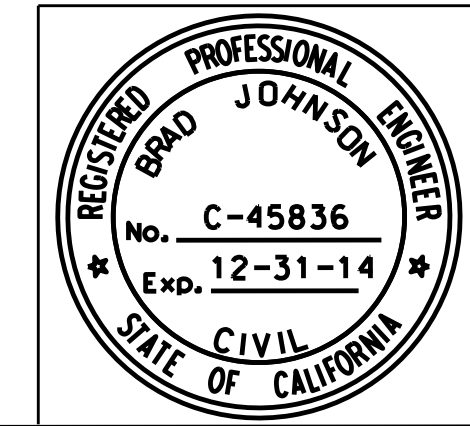


C-10

PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY PEDESTRIAN IMPROVEMENT PROJECT CALLAN RD

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 12 OF 41 SHEETS

APPROVED FOR CITY ENGINEER	DATE	6/5/2013	SUBMITTED BY	LOUIS SCHULTZ
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	KZ			
PROJECT ENGINEER				SABEEN COCHINWALA
COORDINATOR				266-1695
COORDINATOR				6256407-1906444
COORDINATOR				36665-12-D



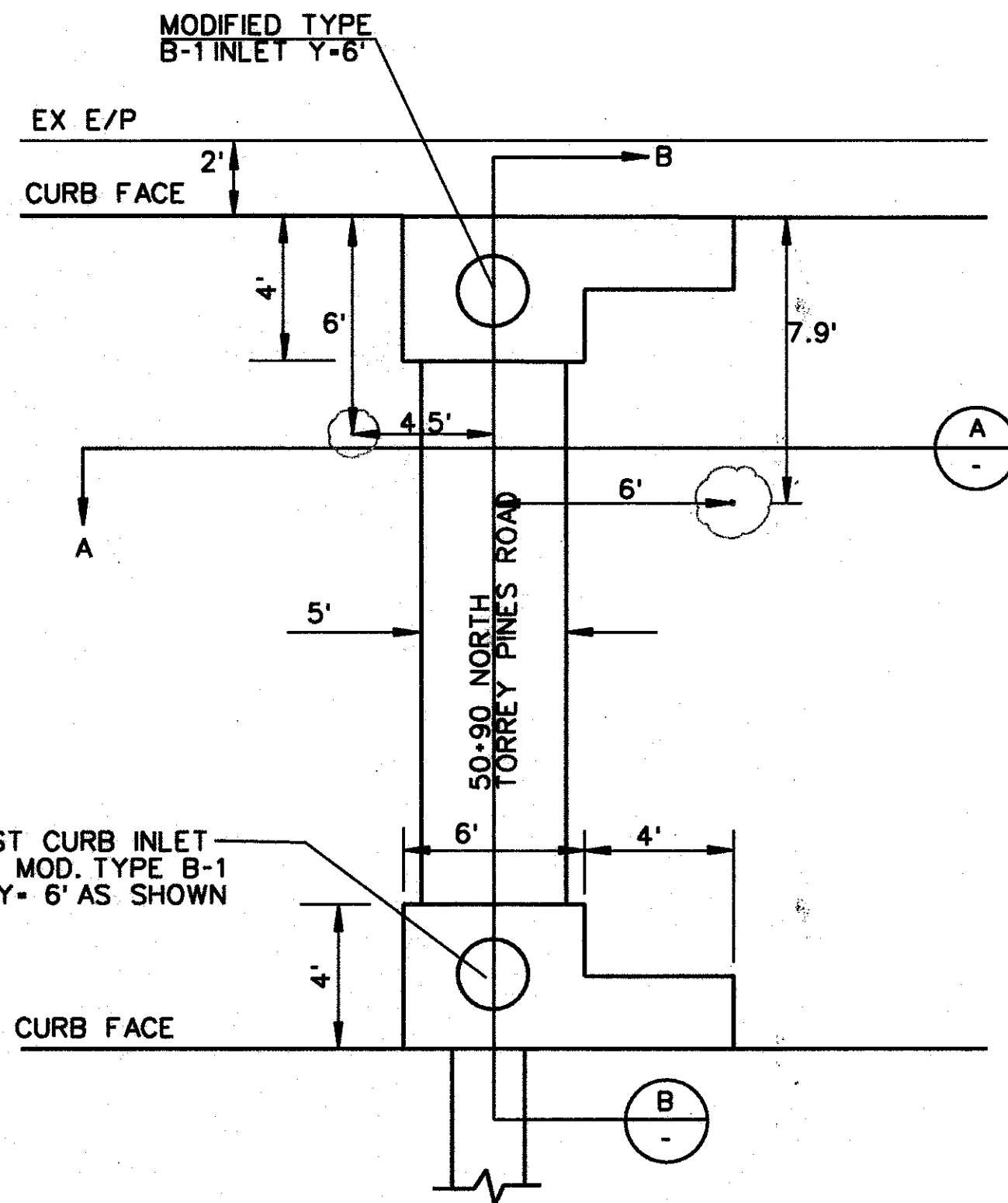
SPEC. NO. 5606

WARNING:
LOCATION OF GAS & UTILITY LINES ARE APPROXIMATE AND CONTRACTOR SHALL ESTABLISH EXACT LOCATION AND DEPTH PRIOR TO CONSTRUCTION.
NOTE:
SDG&E REQUIRES THREE (3) WEEKS NOTICE TO ADJUST BOXES AND HANDHOLES

CALLAN ROAD IMPROVEMENT PLAN

NOTE:
EXISTING IMPROVEMENTS AND TREES SHALL BE PROTECTED IN PLACE UNLESS NOTED OTHERWISE.

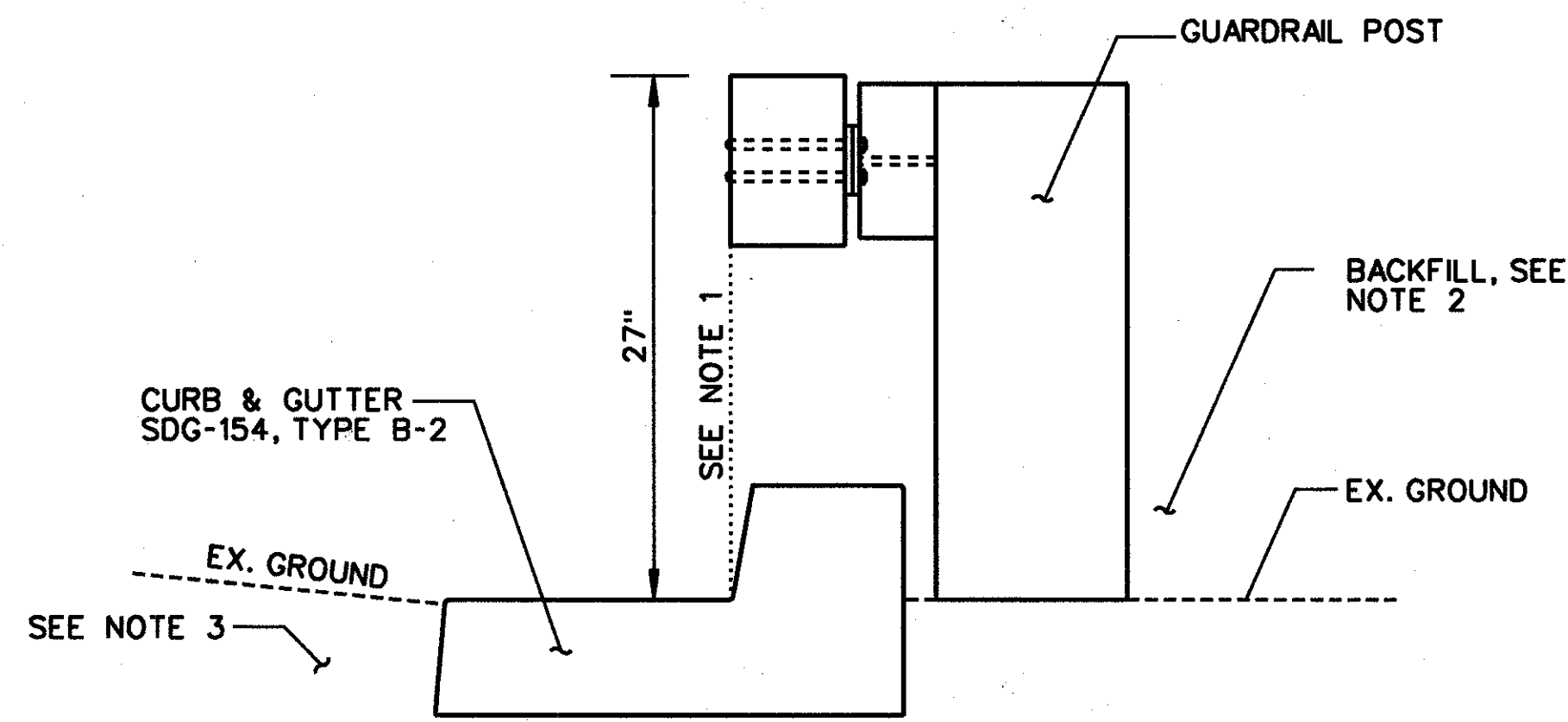
NOTE:
TRAFFIC SHOULD REMAIN OPEN WHILE CONSTRUCTION IS UNDERWAY.



REMOVE EXIST CURB INLET AND INSTALL MOD. TYPE B-1 INLET WITH Y-6 AS SHOWN

- NOTE:
- MEASUREMENT AND LOCATION OF THE EXISTING TREES ARE APPROXIMATIONS ONLY. CONTRACTOR IS RESPONSIBLE FOR THE EXACT MEASUREMENT AND FIELD VERIFICATION. DISCUSS WITH THE RE AS NECESSARY TO AVOID SEVERE DAMAGE TO THE EX TREES.
 - TREE ROOTS SHALL BE TRIMMED 3" AWAY FROM THE STRUCTURE.
 - USE DOUBLE MBGR TO CROSS NEW GUARDRAIL OVER DRAIN AT BOTH SIDES OF MEDIAN, SEE TOP DETAIL

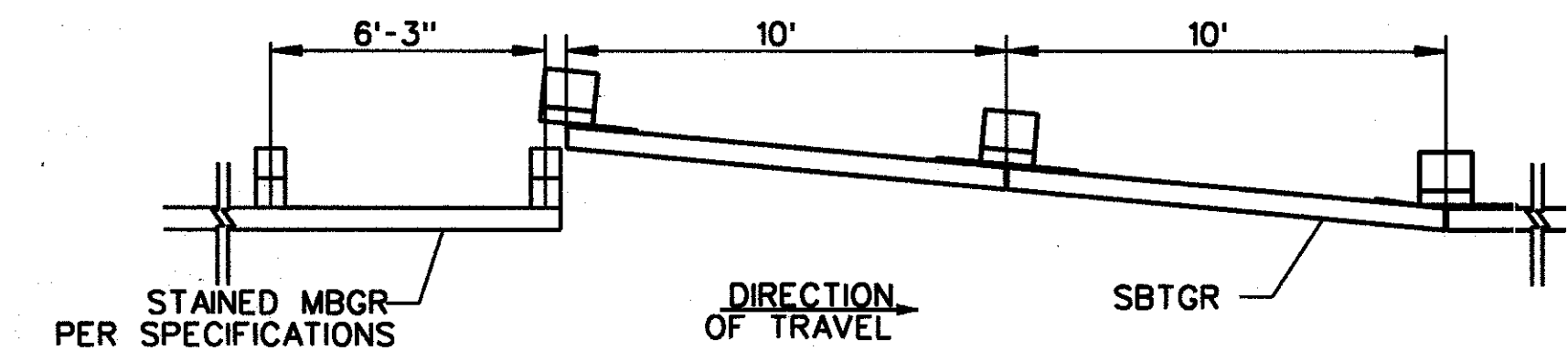
PART. PLAN 1/8
SCALE: 1" = 10'



- NOTE:
- THE GUARDRAIL FACE SHALL BE ON A VERTICAL LINE WITH THE CURB FACE OR ON LINE NO MORE THAN 2" BEHIND THE FLOW LINE OF THE DIKE.
 - BACKFILL WITH SELECT NATIVE SOIL PER GREENBOOK SECTION 300-4. FILL UP TO 2" BELOW TOP OF CURB AND 5' FROM NEW CURB TO MATCH EX SOIL ELEV.
 - CONTRACTOR SHALL OVERCUT AC PAVEMENT 18" BY SAWCUTTING FOR CONSTRUCTION OF TRANSITION, CURB, GUTTER AND MODIFIED APRON. FILL TRENCH PER SDRSD SDG-107.
 - SEE US DOT STANDARDS 617-60 (SEE APPENDIX I) FOR COMPLETE INSTALLATION DETAILS.

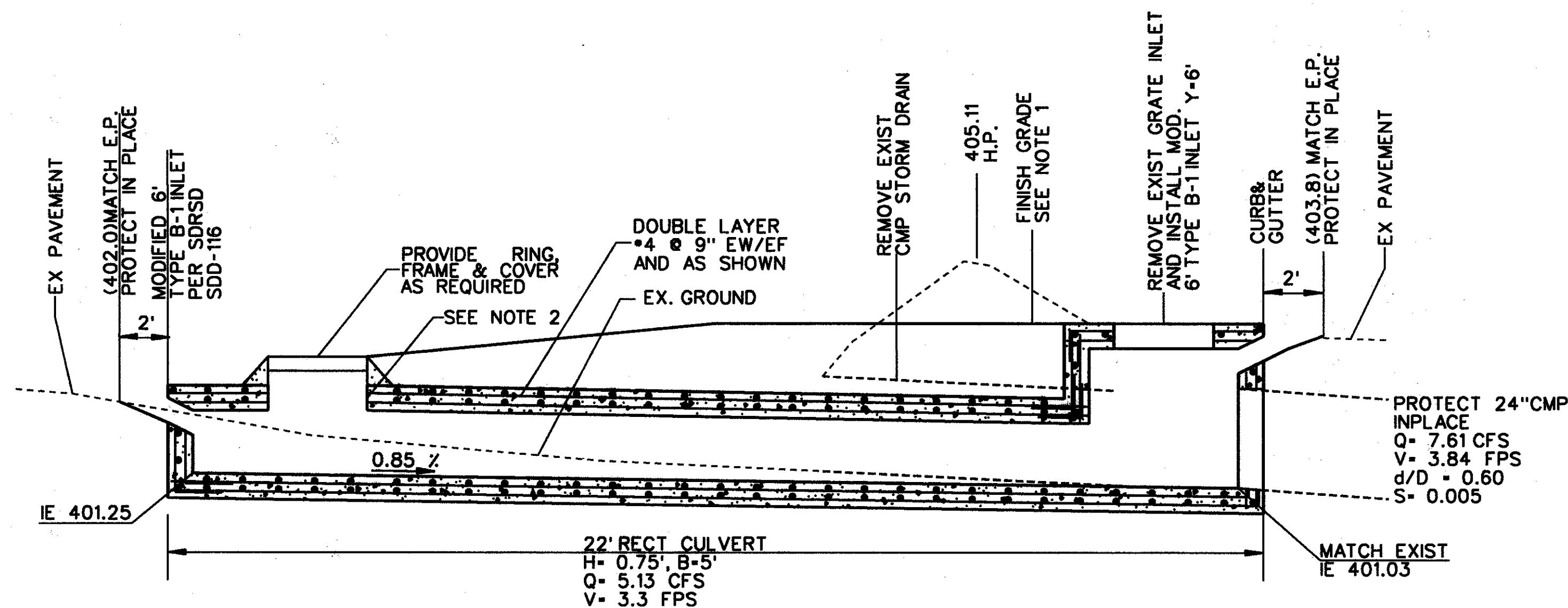
INSTALLATION OF GUARDRAIL DETAIL

NTS



TRANSITION FROM SBTGR TO MBGR DETAIL

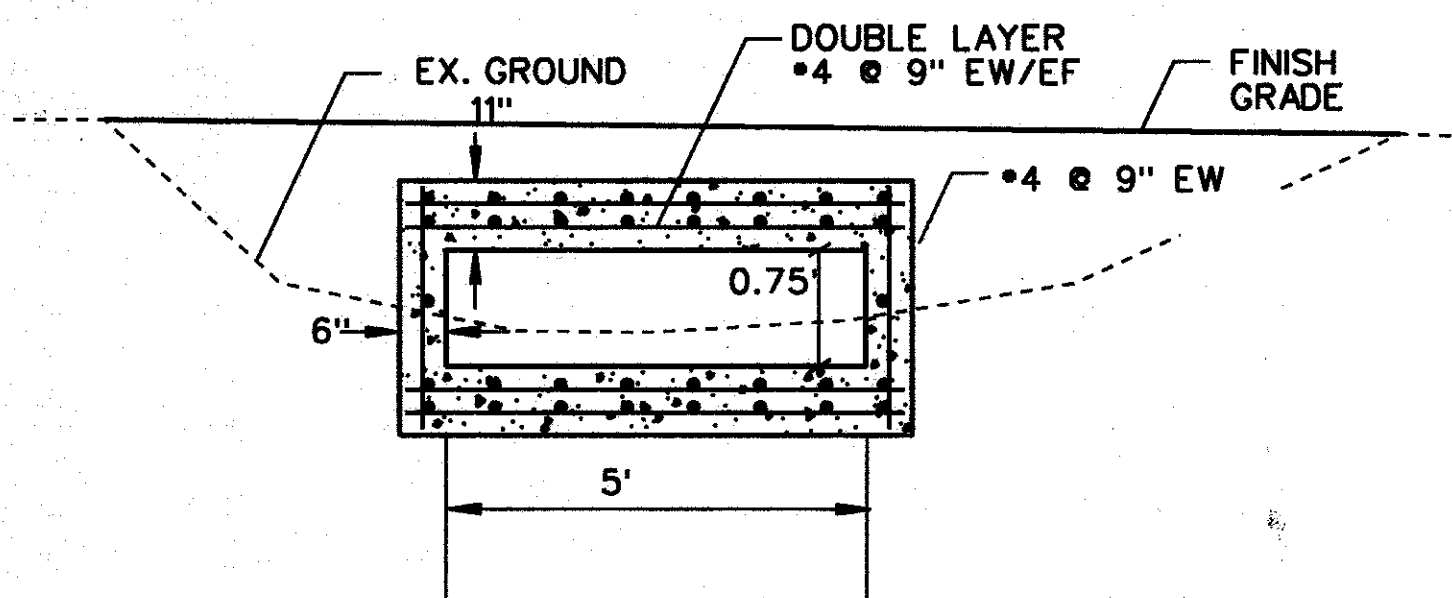
NTS



- NOTE:
- USE SELECTED NATIVE SOIL.
 - PROVIDE REINFORCING PER SDD-116 AND ADDITIONAL REINFORCING AS SHOWN ON DETAIL. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF THE REINFORCEMENT FOR APPROVAL PRIOR TO CONSTRUCTION. THE SHOP DRAWING SHALL PROVIDE DETAIL FOR EACH CORNER OF THE STRUCTURE AND THE REBAR OVERLAPPING.
 - ALL REBARS OVERLAP SHALL BE MIN 15" AS SHOWN ON EACH SIDE.

SECTION B

NTS



SECTION A

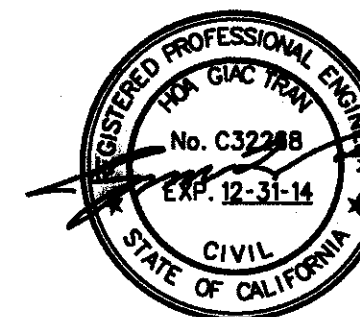
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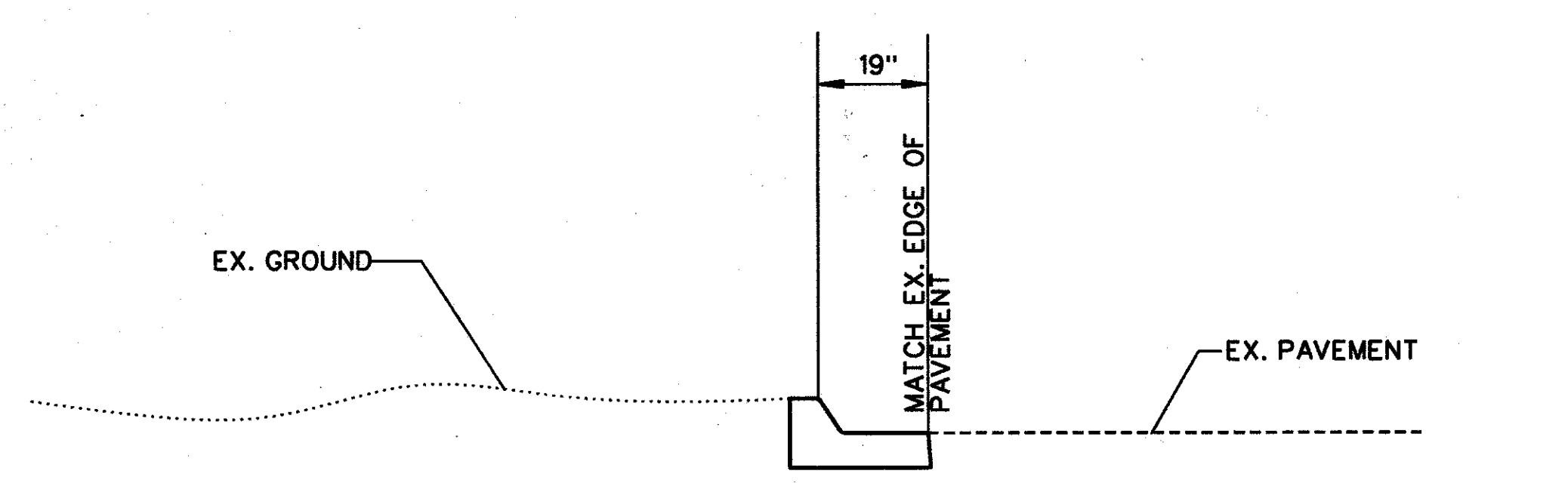
D-1

PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY CURB INLET AND J-BOX PART PLAN AND SECTIONS			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 13 OF 41 SHEETS		WBS S-00868	
APPROVED: <i>[Signature]</i>	DATE: 6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	TCE		
CONTRACTOR		DATE STARTED	
INSPECTOR		DATE COMPLETED	
		36665-13-D	

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San Diego, California 92115
619-562-7650, FAX 619-563-7821

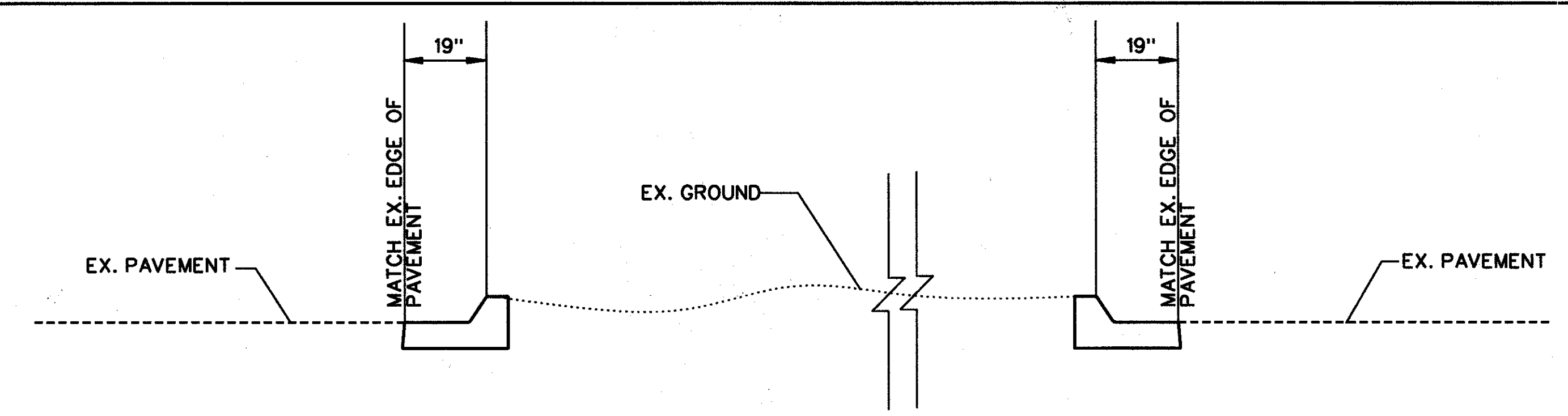
APPROVED: *[Signature]*
DATE: 4-19-13





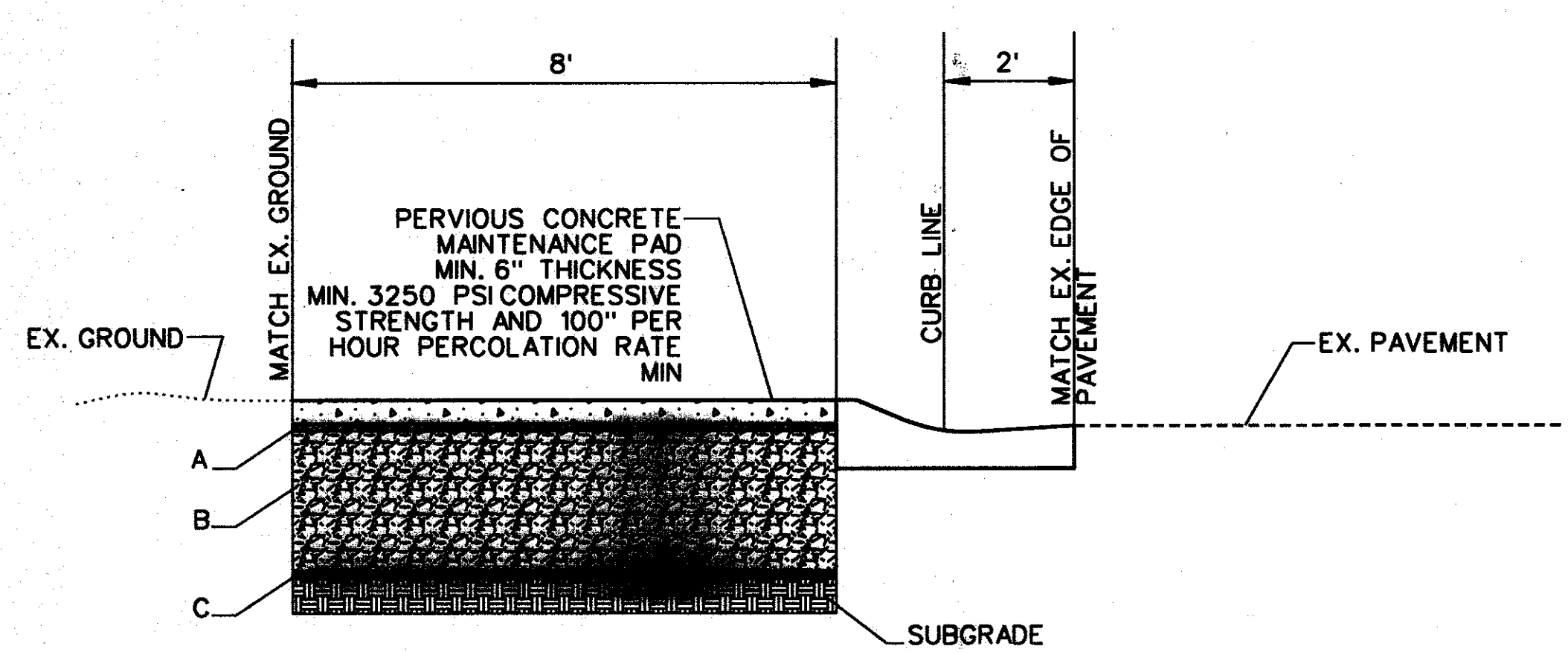
SDG-154 CURB & GUTTER TYPE B-2 TYPICAL SECTION
SCALE 1 1/2"=2"

- STA. 04+13.64 TO STA. 07+69.97
- STA. 08+90.06 TO STA. 12+02.00
- STA. 12+60.00 TO STA. 17+87.12
- STA. 24+11.04 TO STA. 24+47.00
- STA. 25+05.00 TO STA. 26+71.72
- STA. 35+36.07 TO STA. 35+72.90
- STA. 54+06.65 TO STA. 56+87.52
- STA. 64+79.76 TO STA. 67+54.97
- STA. 75+84.67 TO STA. 75+80.41



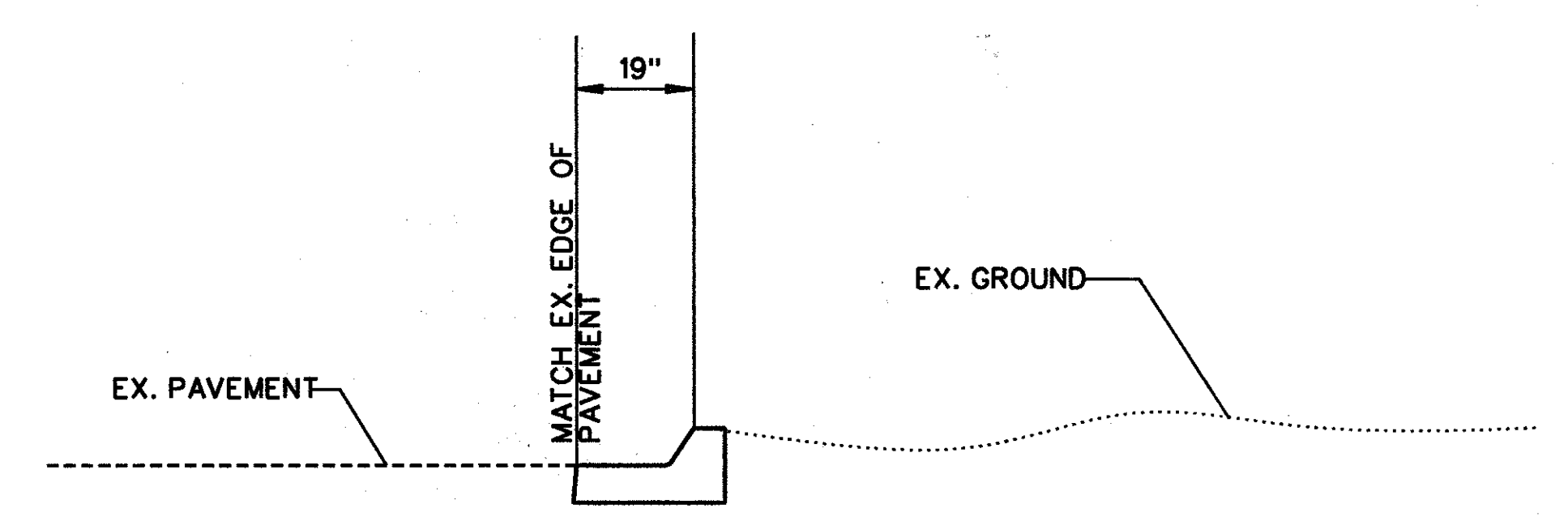
SDG-154 CURB & GUTTER TYPE B-2 TYPICAL SECTION
SCALE 1"=2"

- STA. 08+77.56 TO STA. 08+90.06
- STA. 26+71.72 TO STA. 28+72.64
- STA. 32+10.97 TO STA. 32+43.28
- STA. 35+72.90 TO STA. 36+48.24
- STA. 37+06.00 TO STA. 53+24.66
- STA. 56+87.52 TO STA. 60+56.60
- STA. 61+14.20 TO STA. 61+24.90
- STA. 67+54.97 TO STA. 68+92.00
- STA. 69+50.00 TO STA. 75+64.67



MAINTENANCE PAD G-4 CURB & GUTTER TYPE A TYPICAL SECTION
SCALE 1"=2"

- STA. 12+02.00 TO STA. 12+60.00
- STA. 24+47.00 TO STA. 25+05.00

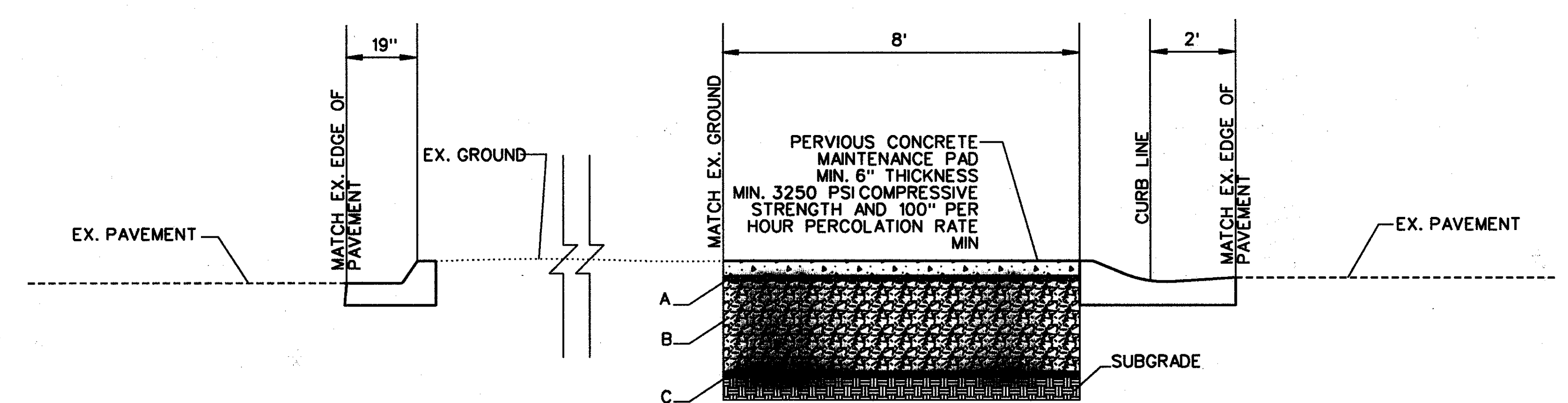


SDG-154 CURB & GUTTER TYPE B-2 TYPICAL SECTION
SCALE 1"=2"

- STA. 28+72.64 TO STA. 32+10.97
- STA. 61+24.90 TO STA. 63+95.52

ACCEPTABLE BASE & SUBBASE MATERIAL FOR PERVIOUS CONCRETE

LAYER	DESCRIPTION
A	CHOKES COURSE 1 INCH THICK SAND SIZE 80% RETAINED ON SIEVE #60, OPEN-GRADED AGGREGATE WITH LAYER "C" BELOW.
B	OPEN-GRADED BASE OPEN GRADED BASE: 4 INCH THICK LAYER OF 3/4 INCH GRAVEL.
C	GEOTEXTILE FILTER FABRIC PLACE AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE, MIRAFI 160N OR APPROVED EQUAL.

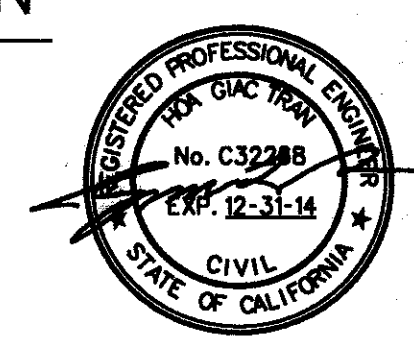


MAINTENANCE PAD G-4 CURB & GUTTER TYPE A & SDG-154 CURB & GUTTER TYPE B-2 TYPICAL SECTION
SCALE 1"=2"

- STA. 36+48.24 TO STA. 37+06.00
- STA. 60+56.60 TO STA. 61+14.20
- STA. 69+50.00 TO STA. 70+07.62

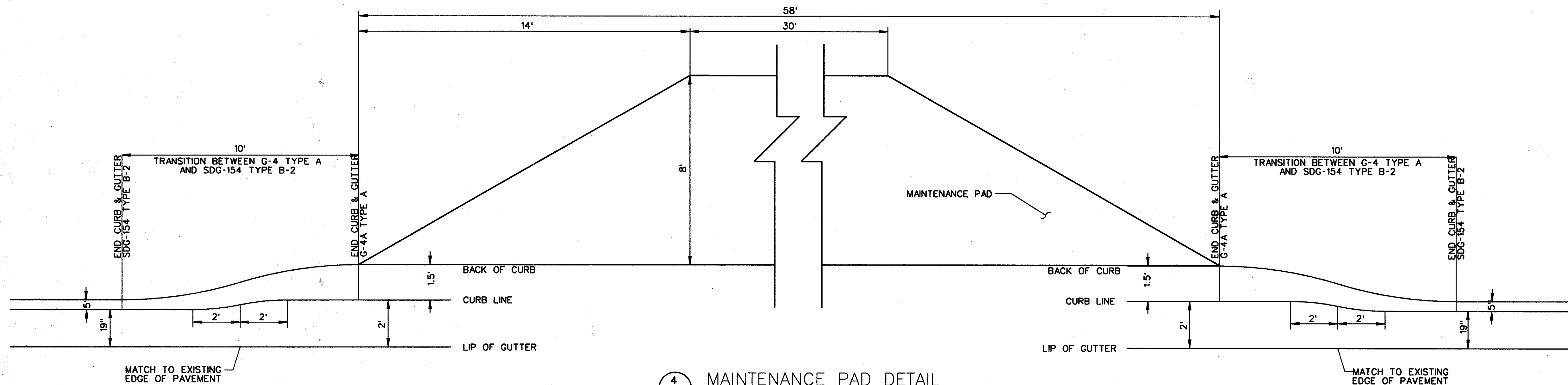
D-2

PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY TYPICAL SECTIONS			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 14 OF 41 SHEETS		WBS S-00868	
FOR CITY ENGINEER	DATE	SUBMITTED BY LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	TCE		
		SABEEN COCHINWALA PROJECT ENGINEER	
		SEE PLANS CCSB7 COORDINATE	
		SEE PLANS CCSB3 COORDINATE	
CONTRACTOR	DATE STARTED	36665-14 -D	
INSPECTOR	DATE COMPLETED		

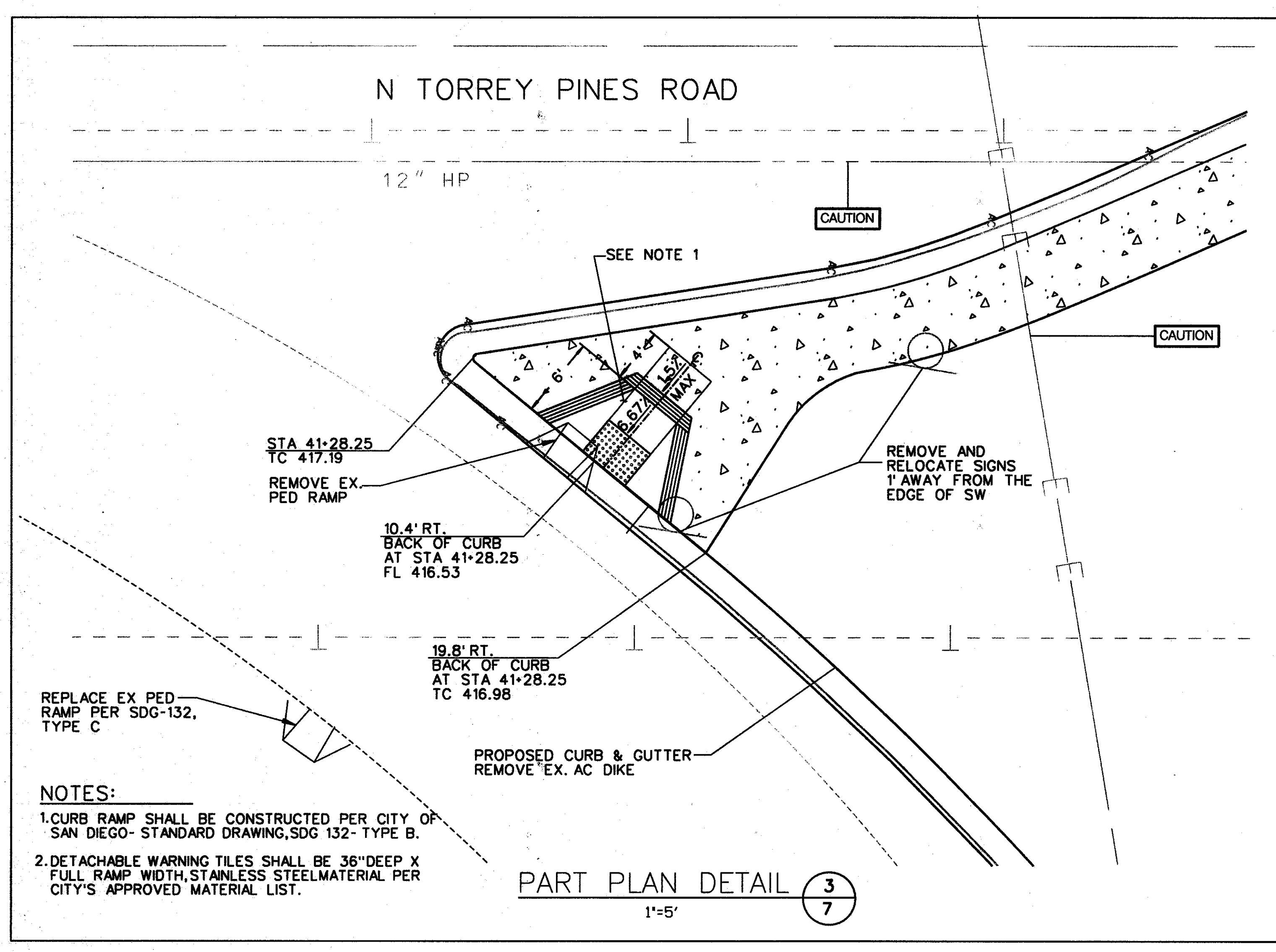


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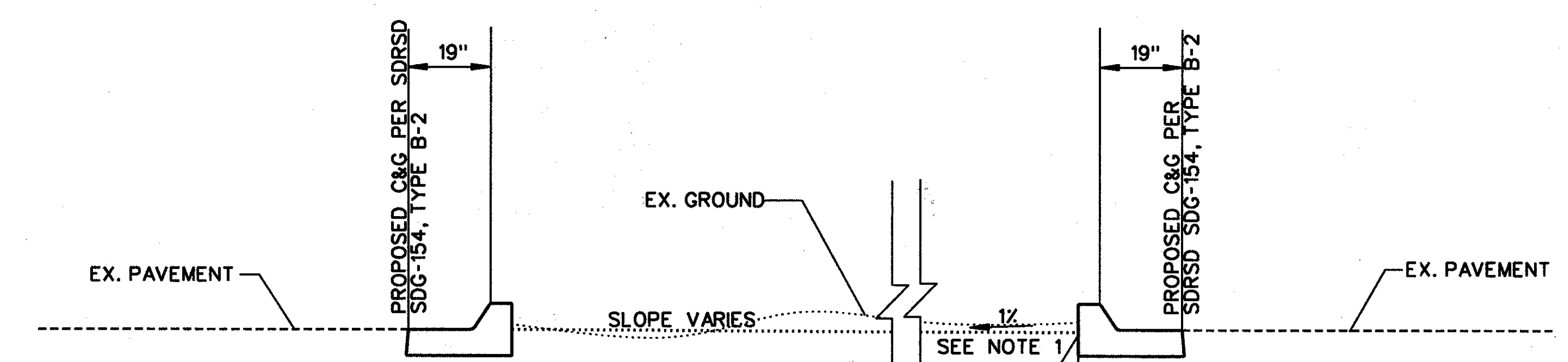
APPROVED: *[Signature]*
DATE: 4-15-13



4 MAINTENANCE PAD DETAIL
NTS

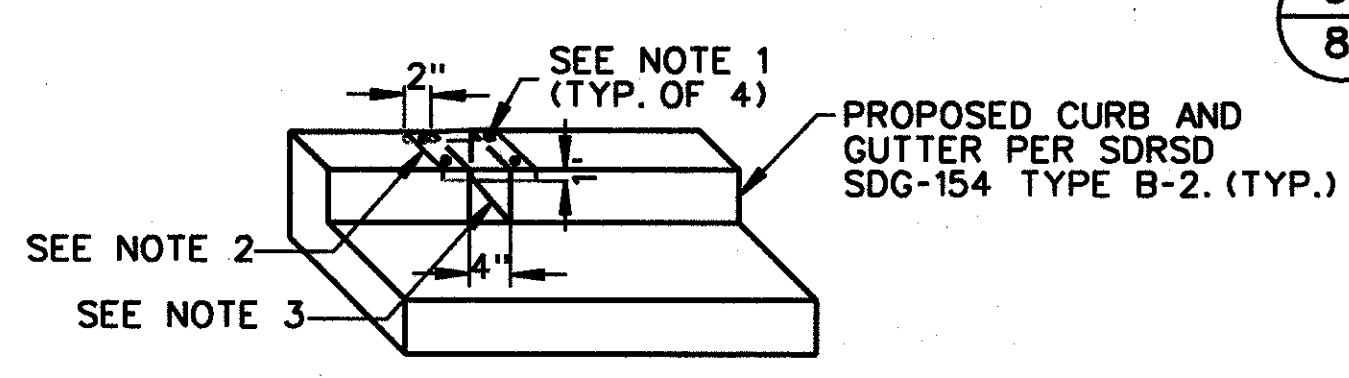


3 PART PLAN DETAIL
1"=5'



- NOTES:
1. EXTEND 1% SLOPE TO HALF MOON AREA OF APPROX 10' RADIUS FROM THE BACK OF CURB.
 2. VISQUEEN LINER WITH MIN 10 MIL THICKNESS X MIN 10' LENGTH. OVERLAP BY 2' MIN. LINER SHALL BE PLACED MIN 25' BEFORE THE FIRST CURB CUT AND 25' PAST THE LAST CURB CUT. LINER SHALL BE PLACED BEHIND THE CURB STARTING AT THE TC TO MIN 2' BELOW THE TC.
 3. PROVIDE GRADING AT IMMEDIATE DOWNSTREAM OF THE CURB OPENING. TOP OF SOIL EL IN MEDIAN SHALL BE 0.05' BELOW THE FLOW LINE IN GUTTER.

5 CURB OPENING CROSS SECTION DETAIL
NTS



- NOTES:
1. USE #10 TAPERED SCREWS, 2.5" LONG, DRILL EPOXY AND SET SCREWS IN. TAPERED HEAD SCREWS SHALL BE FLUSH WITH THE PLATE SURFACE.
 2. USE 12 GAGE STAINLESS STEEL PLATE. BEND STEEL ON BOTH SIDES TO AVOID ANY SHARP EDGES AND OVERLAP BY 2" AS SHOWN. PAINT STAINLESS STEEL PLATE TO MATCH THE CURB COLOR.
 3. DIRECTION OF OPENING SHALL BE SAME AS FLOW DIRECTION IN GUTTER.

6 CURB OPENING DETAIL
NTS

- NOTES:
1. CURB RAMP SHALL BE CONSTRUCTED PER CITY OF SAN DIEGO - STANDARD DRAWING, SDG 132 - TYPE B.
 2. DETACHABLE WARNING TILES SHALL BE 36" DEEP X FULL RAMP WIDTH, STAINLESS STEEL MATERIAL PER CITY'S APPROVED MATERIAL LIST.

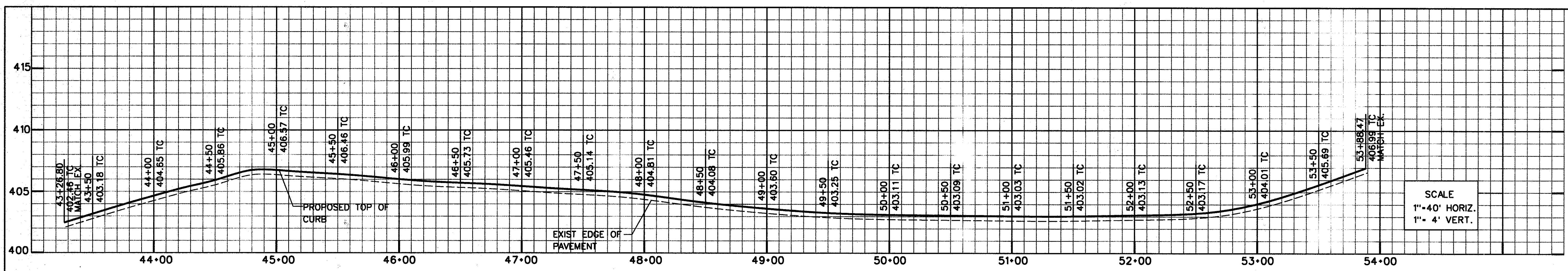


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619-562-7650, FAX 619-563-7821

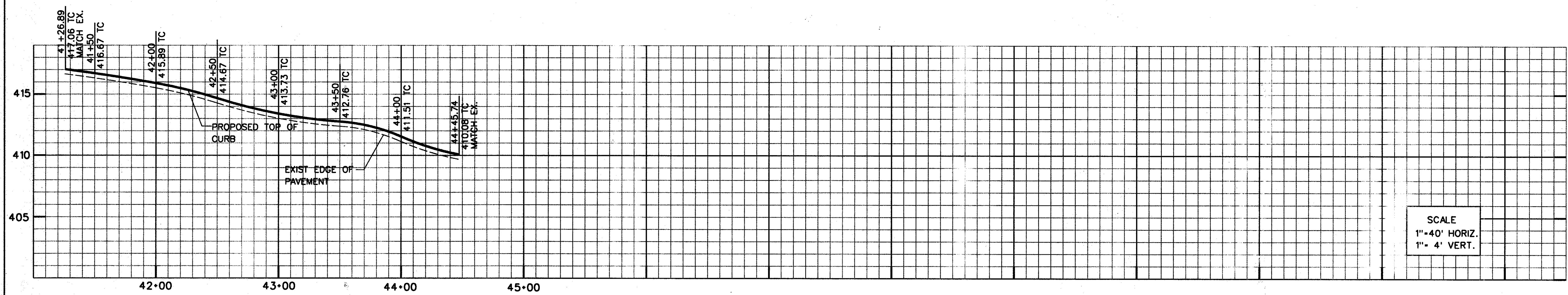
APPROVED: *[Signature]*
DATE: 4-15-13

PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY DETAILS			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 15 OF 41 SHEETS			WBS S-00868
APPROVED FOR CITY ENGINEER <i>[Signature]</i>	DATE 6/11/13	DRAWN BY LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION ORIGINAL	BY TCE	APPROVED	DATE FILED
CONTRACTOR			DATE STARTED
INSPECTOR			DATE COMPLETED
SEE PLANS CCSBY COORDINATE			36665-15-D

D-3



WEST OF NORTH TORREY PINES ROAD CURB PROFILE
SEE SHEETS 7, 8 & 9 FOR PLAN LOCATION OF CURB



EAST OF NORTH TORREY PINES ROAD CURB PROFILE
SEE SHEETS 7 FOR PLAN LOCATION OF CURB

C-11

PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY ADDITIONAL CURB AND GUTTER PROFILE			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 16 OF 41 SHEETS			WBS S-00868
APPROVED BY <i>[Signature]</i> FOR CITY ENGINEER	DATE 6/11/13	DRAWN BY LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION ORIGINAL	BY TCE	APPROVED DATE FILED	SABEEN COCHANWALA PROJECT ENGINEER
			266-1695 CCS27 COORDINATE
			6256407-1906444 CCS83 COORDINATE
CONTRACTOR	DATE STARTED	36665-16 -D	
INSPECTOR	DATE COMPLETED		



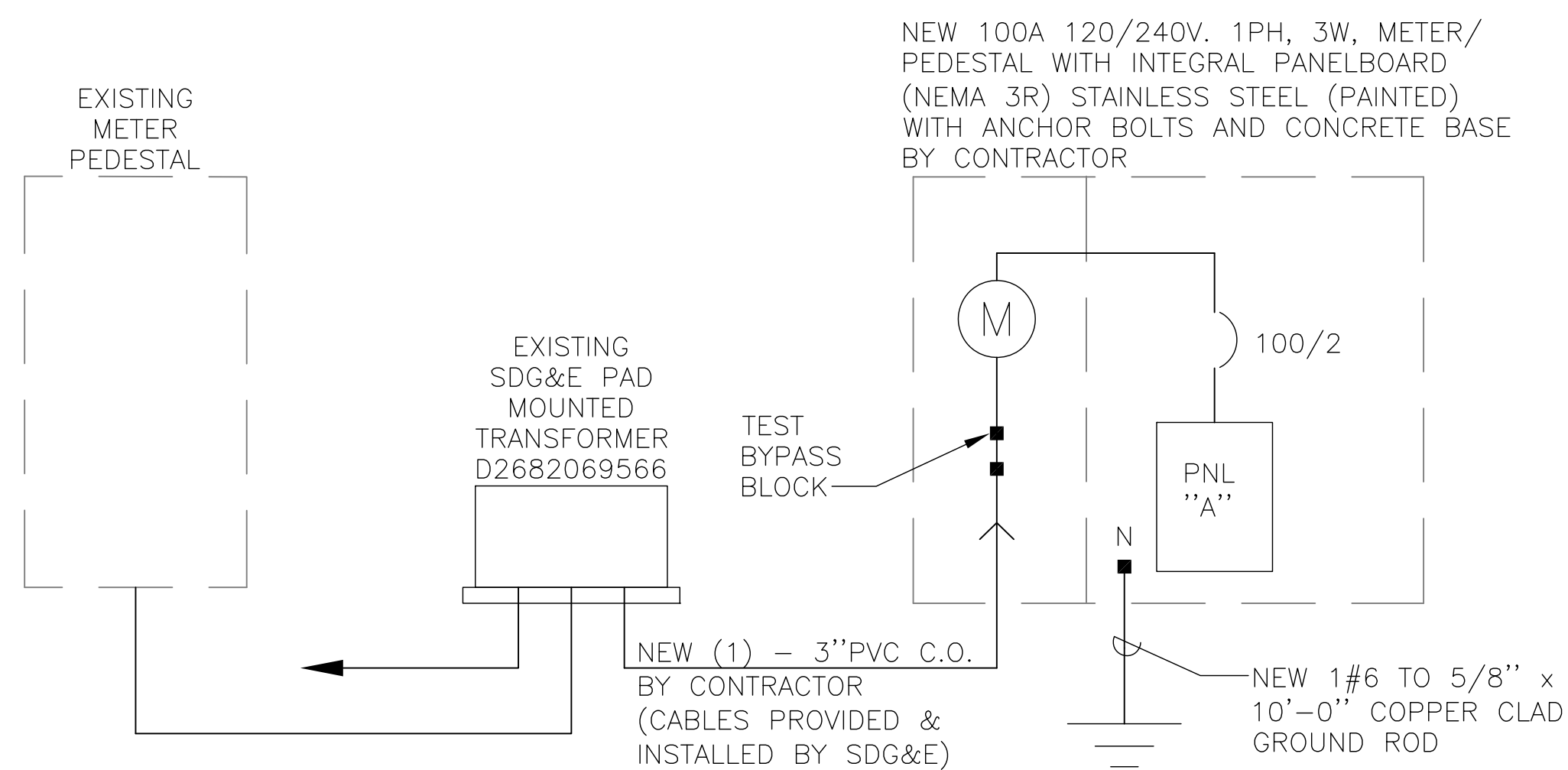
Tran Consulting Engineers
4444 El Cajon Blvd, Suite 15
San Diego, California 92115
619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
DATE: 4-15-13

VOLTS: 120/240V		PANEL: "A"		METER PEDESTAL		MAINS: MLO						
PHASE: 1		LOCATION: SEE 1-LINE		FEEDER: SEE 1-LINE		BUSSING: 100AMP						
WIRE: 3						FEED: BOTTOM						
A.I.C.: 42K						MOUNTING: METER PEDESTAL						
LOCATION	L	R	M	WATTAGE	B	C	K	WATTAGE	M	R	L	LOCATION
IRRIG. CONT.			1	500	20	1	2	-	-	-	-	SPACE
SPARE					20	3	4	-	-	-	-	
					20	5	6	-	-	-	-	
SPACE					20	7	8	-	-	-	-	
					20	9	10	-	-	-	-	
					20	11	12	-	-	-	-	
SUBTOTALS =				500	0			0	0			
TOTALS/PHASE =				500	0							
TOTAL LOAD =				500	WATTS AT 120/240V =	2.1	AMPS					
HIGH PHASE =				500	WATTS AT 120V =	4.2	AMPS					
PANEL MODIFICATIONS:												
GROUND BUS NAMEPLATES												

VOLTS: 120/240V		PANEL: "B"		METER PEDESTAL		MAINS: MLO						
PHASE: 1		LOCATION: SEE 1-LINE		FEEDER: SEE 1-LINE		BUSSING: 100AMP						
WIRE: 3						FEED: BOTTOM						
A.I.C.: 42K						MOUNTING: METER PEDESTAL						
LOCATION	L	R	M	WATTAGE	B	C	K	WATTAGE	M	R	L	LOCATION
IRRIG. CONT.			1	500	20	1	2	-	-	-	-	SPACE
IRRIG. CONT.			1	500	20	3	4	-	-	-	-	
SPARE					20	5	6	-	-	-	-	
SPACE					20	7	8	-	-	-	-	
					20	9	10	-	-	-	-	
					20	11	12	-	-	-	-	
SUBTOTALS =				500	500			0	0			
TOTALS/PHASE =				500	500							
TOTAL LOAD =				1000	WATTS AT 120/240V =	4.2	AMPS					
HIGH PHASE =				500	WATTS AT 120V =	4.2	AMPS					
PANEL MODIFICATIONS:												
GROUND BUS NAMEPLATES												

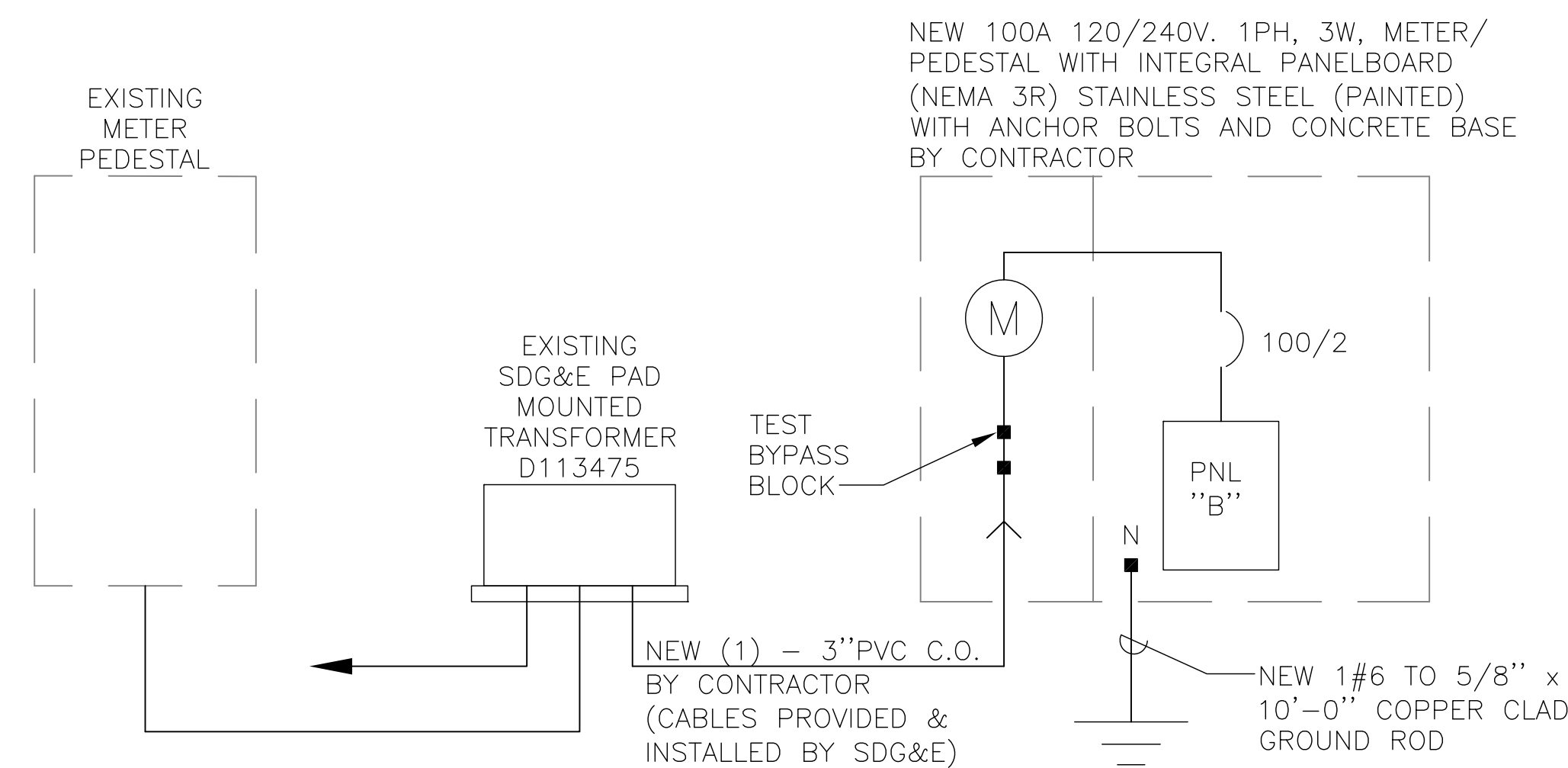
ABBREVIATIONS	
ABBREVIATION	DEFINITION
C.O.	CONDUIT ONLY (WITH PULL CORD)
EX	EXISTING TO REMAIN
GFI	GROUND FAULT INTERRUPTER
UG	UNDERGROUND
U.N.O.	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF



SINGLE LINE DIAGRAM

NO SCALE

A
E-1



SINGLE LINE DIAGRAM

NO SCALE

B
E-1

GENERAL NOTES:

- ALL WORK SHALL BE IN COMPLIANCE WITH GREEN & WHITE BOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND RELATED PWC AND CITY OF SAN DIEGO STANDARD DRAWINGS.
- CONTACT A MARK-OUT SERVICE TO DETERMINE ALL EXISTING UNDERGROUND UTILITIES.
- COORDINATE ALL UNDERGROUND CONDUIT INSTALLED WITH EXISTING UTILITIES & PLANTING MATERIAL.
- CONTRACTOR SHALL PROVIDE DIMENSIONED AS-BUILT LOCATIONS OF ALL UNDERGROUND CONDUITS.
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL SECONDARY UTILITIES WITH SDG&E.

DECLARATION OF RESPONSIBLE CHARGE:
I HEREBY DECLARE THAT I AM THE ELECTRICAL ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGES OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS THE ELECTRICAL ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

MACDONALD ENGINEERS, INC.
2385 CAMINO VIDA ROBLE, SUITE 114
CARLSBAD, CA 92011
760.602.1008

Kurt Wittman
BY: KURT WITTMAN DATE: 07/26/2013

REGISTRATION NO.: E16369
EXPIRATION DATE: 06/30/2015

E-1

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS ELECTRICAL SCHEDULES AND DETAILS

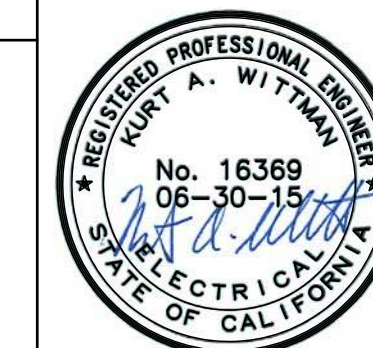
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 17 OF 41 SHEETS				WBS 5-00868
 FOR CITY ENGINEER DATE: 6/11/13				WBS
SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER				
DESCRIPTION				SABEEN COCHINWALA PROJECT ENGINEER
				270-1695 CCS27 COORDINATE
				6256407-1910444 CCS83 COORDINATE
CONTRACTOR _____ DATE STARTED _____				36665-17 -D
INSPECTOR _____ DATE COMPLETED _____				

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____ SPEC. NO. 5606

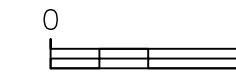
CONSULTANT



2385 Camino Vida Roble
Suite 114
Carlsbad, CA 92011
(760) 602-1008 T
(760) 602-7998 F



WARNING



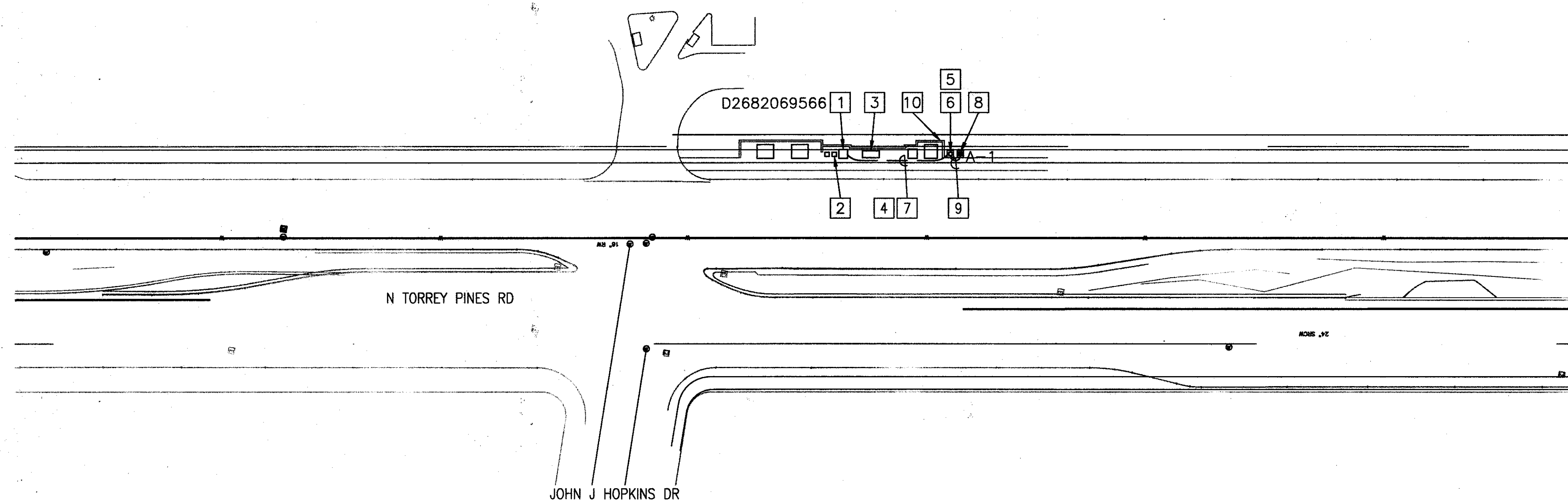
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

GENERAL NOTES:

- CONTACT A MARK-OUT SERVICE TO VERIFY LOCATIONS OF EXISTING UNDERGROUND UTILITIES.

KEY NOTES:

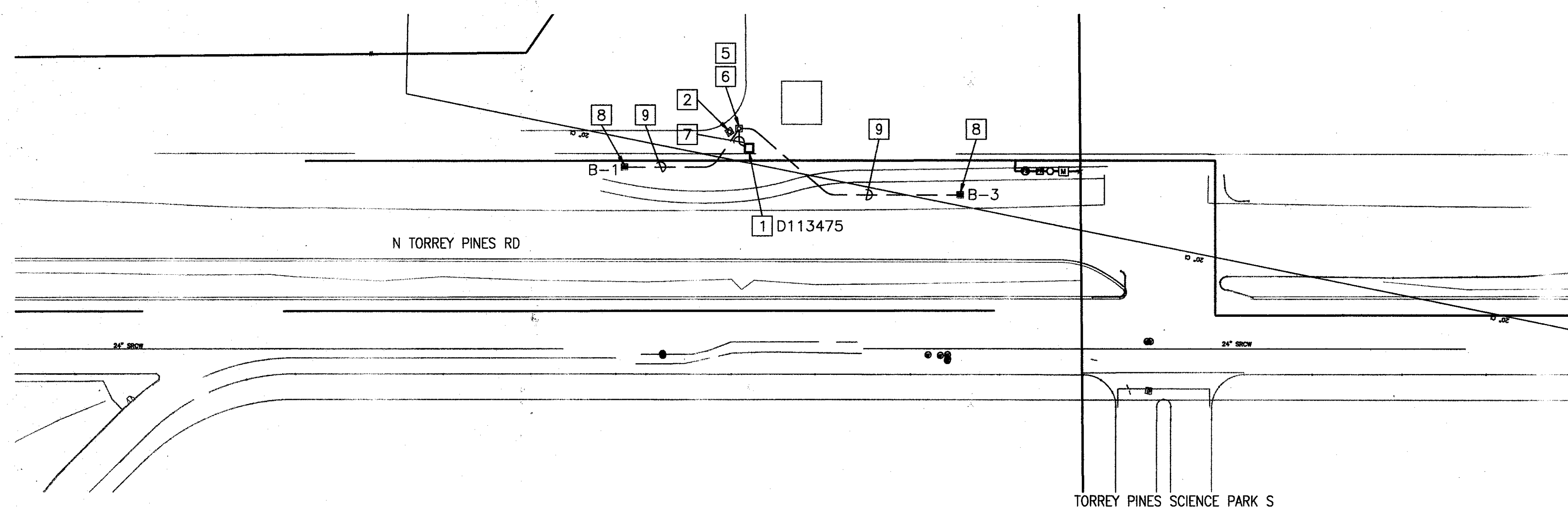
- EXISTING SDG&E PAD MOUNTED TRANSFORMER.
- EXISTING METER PEDESTAL.
- EXISTING SDG&E HANDHOLE.
- SAW-CUT & REPAIR SIDEWALK TO ACCOMMODATE CONDUIT INSTALLATION.
- CONTRACTOR TO INSTALL NEW CONCRETE PAD & ASSOCIATED GROUNDING FOR METER PEDESTAL. COORDINATE WITH SDG&E REPRESENTATIVES.
- CONTRACTOR TO INSTALL NEW 100A, 120/240V, 1PH, 3W NEMA 3R METER PEDESTAL WITH CONCRETE BASE. REFER TO SINGLE-LINE DIAGRAMS ON SHEET E-1.
- CONTRACTOR TO INSTALL NEW 3" C.O. & COORDINATE WITH SDG&E REPRESENTATIVES (CABLES PROVIDED & INSTALLED BY SDG&E).
- PROPOSED NEW IRRIGATION CONTROLLER.
- NEW 3/4" C.O. - 2#12, 1#12 GND.
- EXPAND RETAINING WALL AS REQUIRED TO ACCOMMODATE NEW METER PEDESTAL & IRRIGATION CONTROLLER.



ELECTRICAL SITE PLAN

SCALE: 1" = 50'

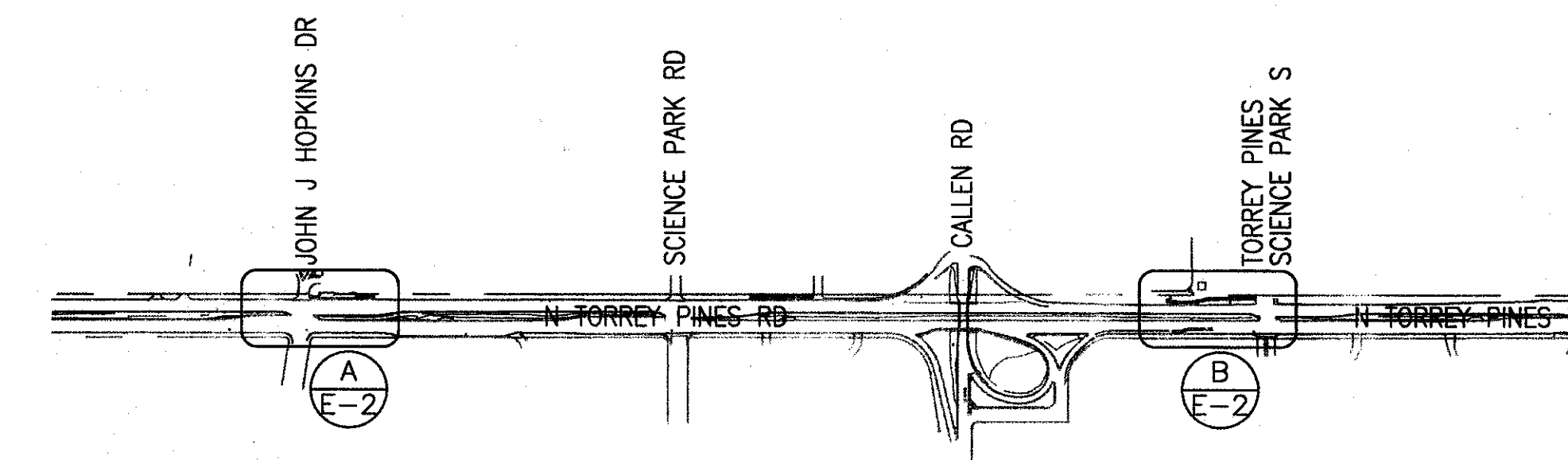
A
E-2



ELECTRICAL SITE PLAN

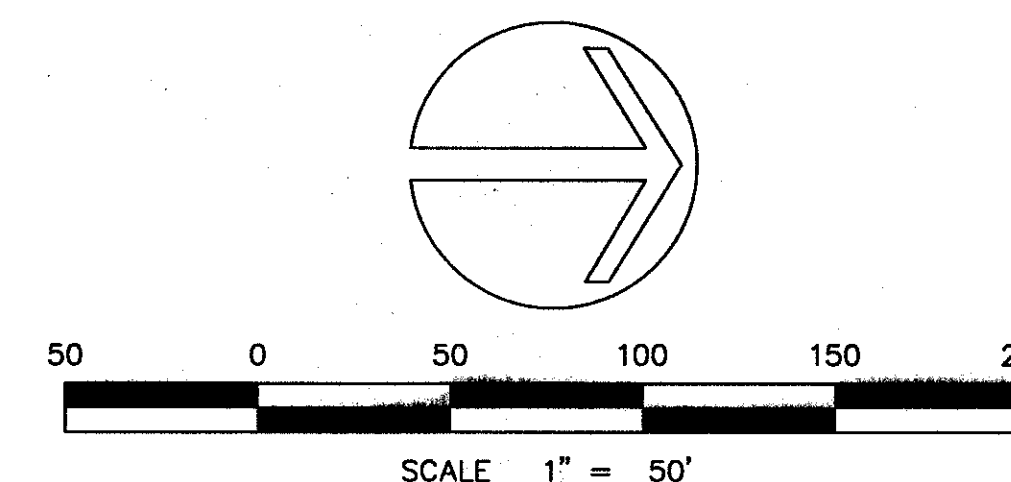
SCALE: 1" = 50'

B
E-2



SITE KEY PLAN

NO SCALE



E-2

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS ELECTRICAL SITE PLAN

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 18 OF 41 SHEETS		WBS S-00868
APPROVED BY <i>Brad Johnson</i> FOR CITY ENGINEER	DATE 6/11/13	ISSUED BY LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION ORIGINAL	BY ELP	DATE
APPROVED	DATE	FILMED
270-1695 CC87 COORDINATE		SABEEN COCHINWALA PROJECT ENGINEER
6256407-1910444 CO88 COORDINATE		
CONTRACTOR	DATE STARTED	36665-18-D
INSPECTOR	DATE COMPLETED	

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____ SPEC. NO. 5608

CONSULTANT

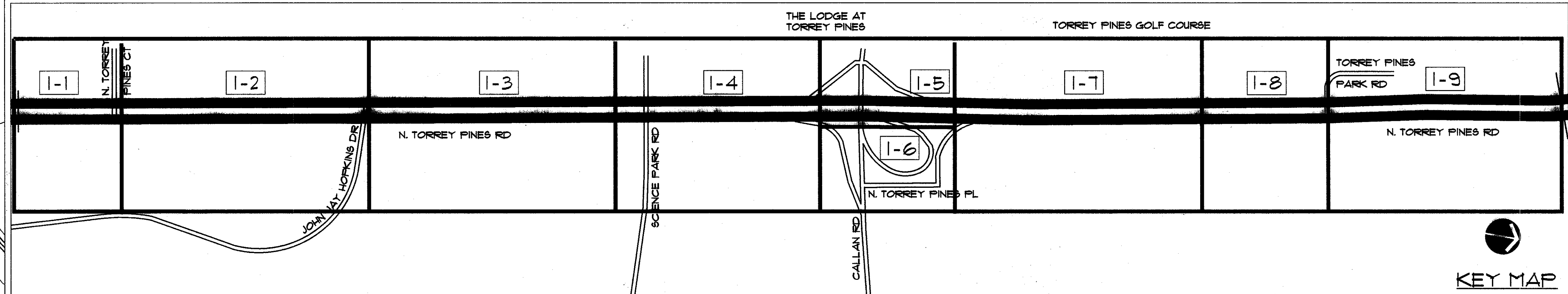
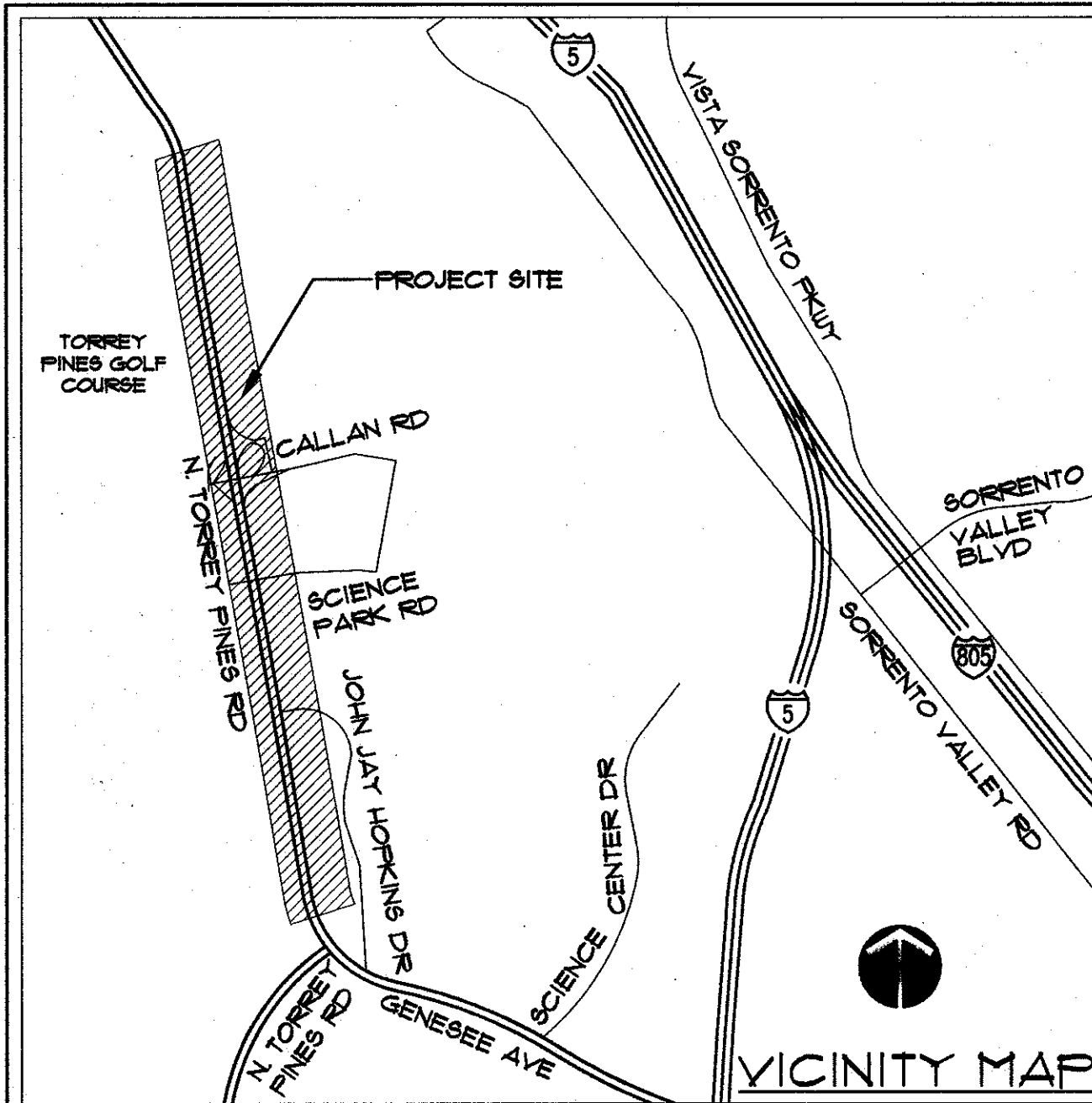
2385 Camino Vida Roble
Suite 114
Carlsbad, CA 92011
(760) 602-1008 T
(760) 602-7998 F

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NORTH TORREY PINES

NORTH TORREY PINES ROAD MEDIANS



LEGEND

DESCRIPTION
SHEET NUMBER/LOCATION

N. TORREY PINES RD.

SHEET	DRAWING INDEX DESCRIPTION
19	IRRIGATION TITLE SHEET
20-28	IRRIGATION PLANS
29	IRRIGATION NOTES
30	IRRIGATION DETAILS

DECLARATION OF RESPONSIBLE CHARGE:
I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGES OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6103 OF THE BUSINESS AND PROFESSIONS CODE AND THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS THE LANDSCAPE ARCHITECT OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

ESTRADA LAND PLANNING
155 BROADWAY CIRCLE, #300
SAN DIEGO, CA 92101
619.236.0143

Wicki Estrada
BY: VICKI ESTRADA DATE: 01/25/2012

REGISTRATION NO.: 1685
EXPIRATION DATE: 4/30/2014

IRRIGATION LEGEND

SYMBOL	MFG.	MODEL/PART NO.	MAX. RAD.	PRECIP. RATE	PSI	GPM	DETAIL REF.
①	HUNTER	MP1000-30 (BODY+PRO5-12-FRS40-CV-R)	14'	0.45	40	.19	SDI-103
②	HUNTER	MP1000-100 (BODY+PRO5-12-FRS40-CV-R)	14'	0.45	40	.31	SDI-103
③	HUNTER	MP1000-360 (BODY+PRO5-12-FRS40-CV-R)	14'	0.45	40	.75	SDI-103
④	HUNTER	MP2000-30 (BODY+PRO5-12-FRS40-CV-R)	20'	0.44	40	.40	SDI-103
⑤	HUNTER	MP2000-100 (BODY+PRO5-12-FRS40-CV-R)	19'	0.45	40	.74	SDI-103
⑥	HUNTER	MP2000-360 (BODY+PRO5-12-FRS40-CV-R)	19'	0.45	40	1.47	SDI-103
⑦	HUNTER	MP3000-30 (BODY+PRO5-12-FRS40-CV-R)	30'	0.43	40	.26	SDI-103
⑧	HUNTER	MP3000-100 (BODY+PRO5-12-FRS40-CV-R)	30'	0.45	40	1.02	SDI-103
⑨	HUNTER	MP3000-360 (BODY+PRO5-12-FRS40-CV-R)	30'	0.45	40	3.64	SDI-103

⑩	HUNTER	MFLC8515 (BODY+PRO5-12-FRS40-CV-R)	5' x 15'	--	40	0.22	SDI-103
⑪	HUNTER	MFRC8515 (BODY+PRO5-12-FRS40-CV-R)	5' x 15'	--	40	0.22	SDI-103
⑫	HUNTER	MF85530 (BODY+PRO5-12-FRS40-CV-R)	5' x 30'	--	40	0.44	SDI-103

● RAINBIRD TREE BUBBLER 1400 SERIES-1402 -- -- 30 50 SDI-104 C7-11

SYMBOL	IRRIGATION COMPONENT DESCRIPTION	MFG.	MODEL/PART NO.	REMARKS	DETAIL REF.
★	POINT OF CONNECTION	---	---	CONNECT TO EXISTING RECLAIMED WATER MAINLINE, VERIFY SIZE AND PRESSURE IN FIELD	---
RM	IRRIGATION METER W/ NEW SERVICE	---	2" METER 2" SERVICE	PER CIVIL ENGINEER'S DRAWINGS	SDU-149 SDU-113
IC	INSTALL IRRIGATION CONTROLLER ASSEMBLY IN STAINLESS STEEL ENCLOSURE	CALSENSE	ET2000E	INSTALL IN STAINLESS STEEL CABINET PER DETAIL AND MANUFACTURER'S INSTRUCTIONS.	SDI-111
IS	CROSS CONNECTION TEST STATION	---	---	INSTALL COMPONENTS PER MANUFACTURER'S INSTRUCTIONS. COMPONENTS INCLUDE RAIN SENSOR IN VANDAL RESISTANT ENCLOSURE AND FLOW MONITORING DEVICE. PROVIDE OPERATIONS TEST BY MANUFACTURER.	SDRU-116

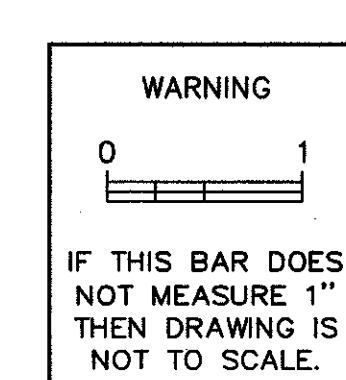
SYMBOL	IRRIGATION COMPONENT DESCRIPTION	MFG.	MODEL/PART NO.	REMARKS	DETAIL REF.
MV	MASTER VALVE	SUPERIOR	MODEL 3300	2", NORMALLY CLOSED	SDI-111
FS	INSTALL FLOW MONITORING DEVICE	CALSENSE	FM 1B	INSTALL 14 AWG SHIELDED CABLE FROM CONTROLLER TO FLOW MONITORING AS RECOMMENDED BY MANUFACTURER	SDI-112 B7-11
PR	PRESSURE REGULATOR	WILKINS	500 HRY8BR 1 1/2", SPRING RANGE: 75-125	INSTALL IN VALVE BOX DOWNSTREAM OF BACKFLOW PREVENTER ASSEMBLY	A7-11
QC	QUICK COUPLING VALVE	NELSON	*1645, 1" SIZE	ISOLATE FROM MAIN WITH 1" GLOBE VALVE. PURPLE COVER REQUIRED.	SDRU-115
G.V.	GLOBE VALVE (MANUAL VALVE)	NIBCO	T-235-Y	1" SIZE FOR QUICK COUPLING VALVE. THE SAME SIZE AS THE LARGEST REMOTE CONTROL VALVE IN MANIFOLD.	SDI-126 SDI-106
RCV	IRRIGATION REMOTE CONTROL VALVE (RCV)	RAINBIRD	100-FE8B-R SERIES 150-FE8B-R SERIES	VALVE SHALL HAVE PURPLE HANDLE. INSTALL IN CONCRETE VALVE BOX W/PURPLE PAINTED COVER, SIZE PER SPECS.	SDI-114 SDI-126 SDRU-103
IV	IRRIGATION ISOLATION VALVE	WILKINS	*215, LINE SIZE	INSTALL IN ROUND 12" CONCRETE VALVE BOX W/PURPLE COVER	SDRU-104
AD	ANTI-DRAIN / EXCESSIVE FLOW VALVE	VALCON	ADV-X8	INSTALL AT ALL SPRINKLER HEADS WHERE NEEDED TO STOP ALL LOW HEAD DRAINAGE AND AS AN ANTI-GEYSER DEVICE.	SDI-102, SDI-103
---	MAIN LINE (PRESSURE) RECYCLED WATER - PURPLE PIPE LOCATE IN MEDIANS IN ALL AREAS	---	1 1/2" AND SMALLER, SCH. 40 PVC, 2" AND LARGER, CLASS 315 PVC	21" BELOW GRADE INSTALL THRUST BLOCKS AT TEES, ANGLES, ELLS	SDI-110, SDRU-101 SDU-151 D7-11
---	EXISTING 16" RECYCLED WATER LINE	---	---	---	---
---	IRRIGATION LATERAL LINE PIPE (NON-PRESSURE), PURPLE PIPE	---	SCH. 40 PVC	MIN. 18" BELOW GRADE	SDI-110, SDRU-101 D7-11
---	IRRIGATION PIPE/CONTROL WIRE SLEEVE, PURPLE PIPE	---	SCH. 40 PVC	MIN. 2X DIAM. OF PIPE BEING SLEEVED. MIN. 2" FOR WIRE	SDI-110, SDRU-101 D7-11
EB	IRRIGATION ELECTRICAL FULL BOX	BROOKS SHL	CONCRETE FULL BOX W/PURPLE LID	ALL SPICES SHALL OCCUR IN FULL BOX OR CONTROL VALVE BOXES W/PURPLE PAINTED LIDS.	SDI-115
NO SYMBOL	DIRECT BURIAL IRRIGATION ELECTRICAL CONTROL WIRE	---	---	CONTROL WIRES SHALL BE PARALLEL TO MAINLINE. CONTROL WIRE SHALL BE INSTALLED IN MIN. 2" DIA. SCH. 40 PVC SLEEVE UNDER PAVING.	SDI-115 SDI-110
---	RECYCLED WATER SIGN	---	---	INSTALL EVERY 200 FEET	SDRU-108

NOTES:
1. ALL IRRIGATION BOXES SHALL BE LABELED AS TO THEIR USE, I.E. 'RCV', 'ELECTRIC', 'QC', ETC.
2. ALL IRRIGATION EQUIPMENT SHALL BE AS SPECIFIED OR APPROVED EQUAL.

RW #3213

NORTH TORREY PINES

RW-1

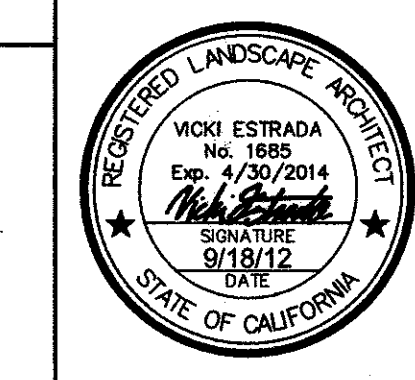


TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH ___ MEDIUM ___X___ LOW ___ SPEC. NO. 5606

CONSULTANT

Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

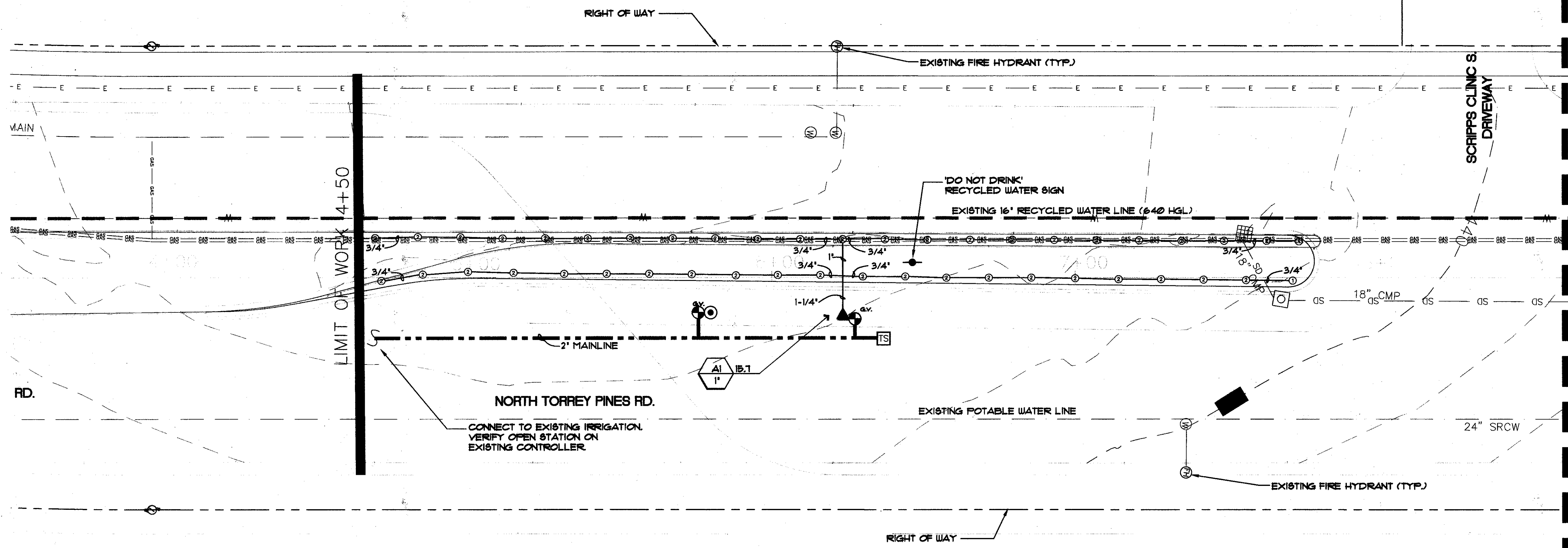


COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
Digitally signed by Sergio Gracia
DN: cn=Sergio Gracia, o=Department of Environmental Health,
email=Sergio.Gracia@sdcountry.ca.gov, c=US
Date: 2013.04.11 10:22:07 -0700

Sergio Gracia
APPROVED BY: _____ DATE _____

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS
IRRIGATION TITLE SHEET

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 19 OF 41 SHEETS				WBS# S-00868
APPROVED BY: <i>Wicki Estrada</i>	DATE: 4/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER		
FOR CITY ENGINEER		SABREEN COCHINWALA PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	ELP			
CONTRACTOR _____ DATE STARTED _____				36665-19-D
INSPECTOR _____ DATE COMPLETED _____				



MATCHLINE - SEE SHEET I-2

QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER.

PROPOSED RECYCLED IRRIGATION ONLY ON THIS SHEET.
THERE ARE NO DRINKING FOUNTAINS OR OUTDOOR EATING AREAS ON SITE.

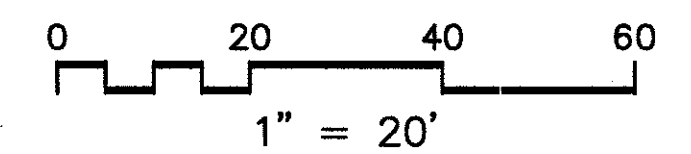
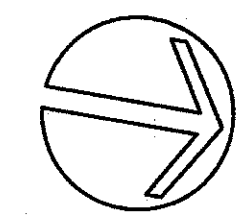
DO NOT TRENCH THROUGH ROOTS OF EXISTING TREES. ROUTE PIPE TO MINIMIZE ROOT DISTURBANCE. HAND DIG WITHIN DRIPLINE OF TREES.

SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.
SEE SHEET 19 FOR IRRIGATION LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

ALL IRRIGATION HEADS SHALL BE OFFSET 6 INCHES FROM BACK OF CURB, GUARDRAIL OR PAVING.

FOR TRENCH RESURFACING IN STREETS USE DETAIL SDG-107.



I-1

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPROVED BY: _____ DATE: _____

**PLANS FOR THE LANDSCAPING OF
NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENTS
IRRIGATION PLAN**

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____ SPEC. NO. 5606

CONSULTANT
Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging
619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com



CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 20 OF 41 SHEETS				WBS# S-00868
APPROVED BY: <i>Ben Johnson</i>	DATE: <i>6/11/13</i>	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER		
FOR CITY ENGINEER		PROJECT ENGINEER		
DESCRIPTION	BY	APPROVED	DATE	
ORIGINAL	ELP			
CONTRACTOR			DATE STARTED	
INSPECTOR			DATE COMPLETED	
			36665-20-D	

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NORTH TORREY PINES

MATCHLINE - SEE SHEET I-1

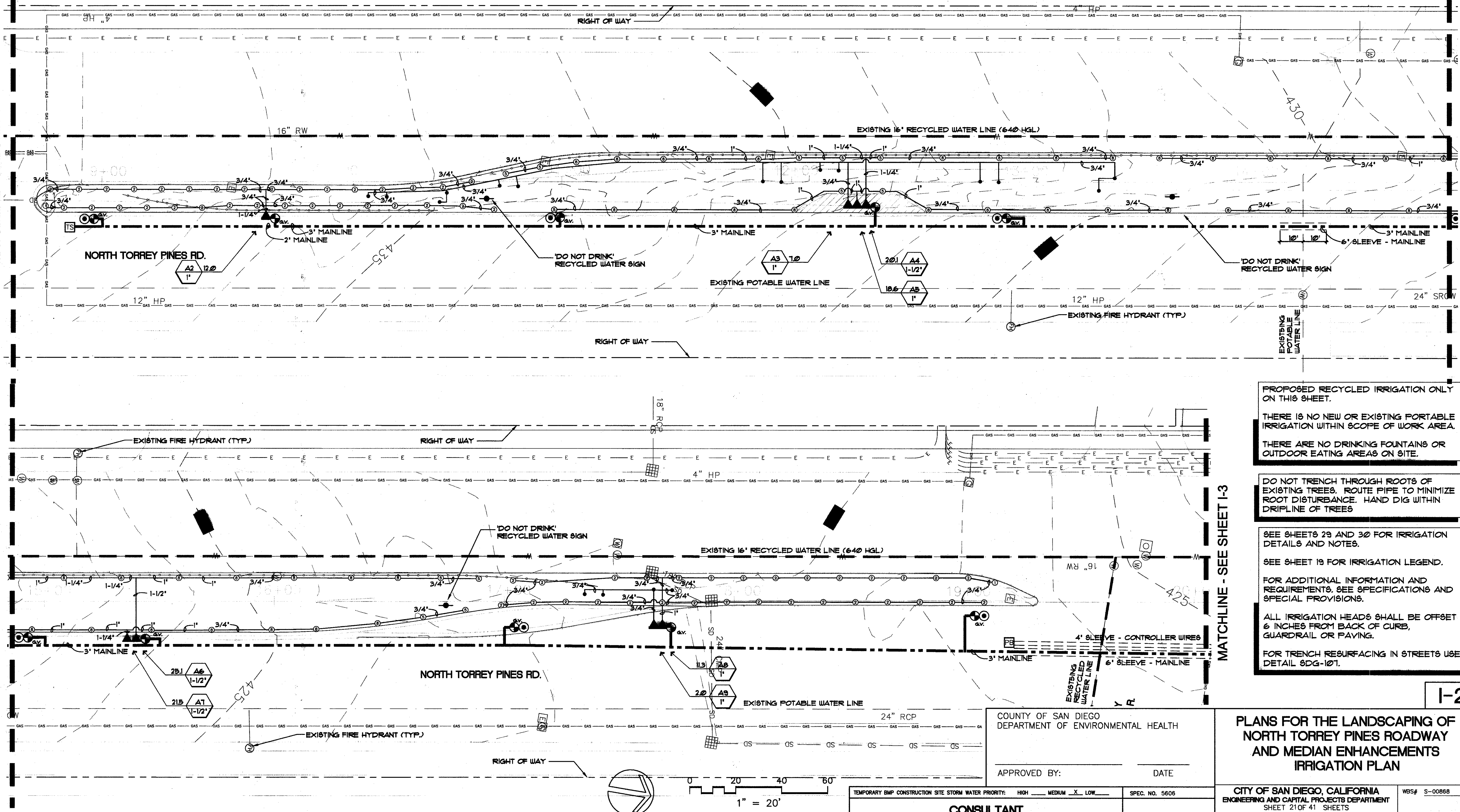
MATCHLINE - SEE LOWER LEFT

MATCHLINE - SEE UPPER RIGHT

MATCHLINE - SEE SHEET I-3

I-2

NORTH TORREY PINES



PROPOSED RECYCLED IRRIGATION ONLY ON THIS SHEET.

THERE IS NO NEW OR EXISTING PORTABLE IRRIGATION WITHIN SCOPE OF WORK AREA.

THERE ARE NO DRINKING FOUNTAINS OR OUTDOOR EATING AREAS ON SITE.

DO NOT TRENCH THROUGH ROOTS OF EXISTING TREES. ROUTE PIPE TO MINIMIZE ROOT DISTURBANCE. HAND DIG WITHIN DRIPLINE OF TREES

SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.

SEE SHEET 19 FOR IRRIGATION LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

ALL IRRIGATION HEADS SHALL BE OFFSET 6 INCHES FROM BACK OF CURB, GUARDRAIL OR PAVING.

FOR TRENCH RESURFACING IN STREETS USE DETAIL SDG-107.

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPROVED BY: _____ DATE _____

**PLANS FOR THE LANDSCAPING OF
NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENTS
IRRIGATION PLAN**

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 21 OF 41 SHEETS

APPROVED: *Ben Johnson* 6/11/13
FOR CITY ENGINEER DATE

DESIGNER: *Wicki Estrada*
BY: ELP APPROVED: DATE: FILMED:

ORIGINAL

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

WBS# S-00868

LOUIS SCHULTZ
PROJECT MANAGER

SABEEN COCHINWALA
PROJECT ENGINEER

266-1695
COB27 COORDINATE

6256407-1906444
COB88 COORDINATE

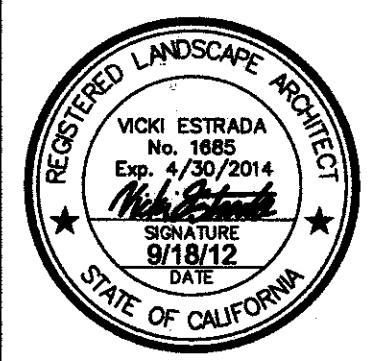
36665-21-D

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____
SPEC. NO. 5606

CONSULTANT

Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com



QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER.

WARNING
0 20 40 60
1" = 20'
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

POINT OF CONNECTION "A" - RECYCLED WATER	
P.O.C. DESIGNATION	"A"
ELEVATION	429'
STATIC PRESSURE	90 PSI
WATER METER	2" W/ 2" SERVICE
PEAK FLOW	25.1 G.P.M.
PRESSURE REGULATOR	"2"
CONTROLLER TYPE	ET2000E-32-GR-RRE
STATIONS AVAILABLE	32
STATIONS USED	25
WATER AGENCY	CITY OF SAN DIEGO
WATER UTILITIES DEPT.	619-553-4100

- ELECTRICAL NOTES**
1. CONTROLLER 'A' - CONTRACTOR SHALL PROVIDE 120VAC POWER SUPPLY TO CONTROLLER AND MAKE FINAL CONNECTIONS.
 2. (2) #4 AWG IN 3/4" SCH40 PVC CONDUIT TO FLOW SENSOR FROM CONTROLLER.
 3. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL POINT OF CONNECTION.

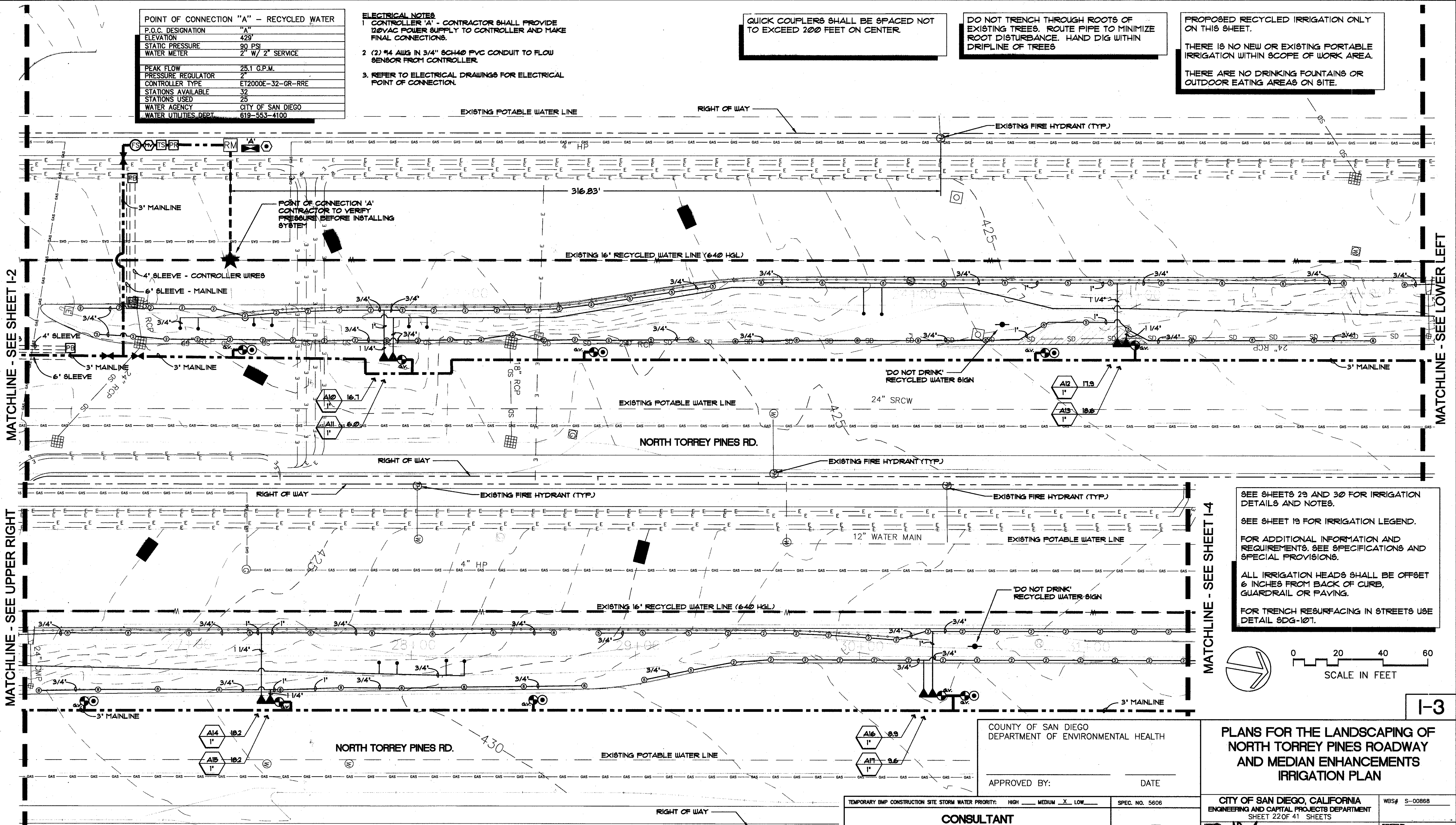
QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER.

DO NOT TRENCH THROUGH ROOTS OF EXISTING TREES. ROUTE PIPE TO MINIMIZE ROOT DISTURBANCE. HAND DIG WITHIN DRILLPIE OF TREES

PROPOSED RECYCLED IRRIGATION ONLY ON THIS SHEET.

THERE IS NO NEW OR EXISTING PORTABLE IRRIGATION WITHIN SCOPE OF WORK AREA.

THERE ARE NO DRINKING FOUNTAINS OR OUTDOOR EATING AREAS ON SITE.



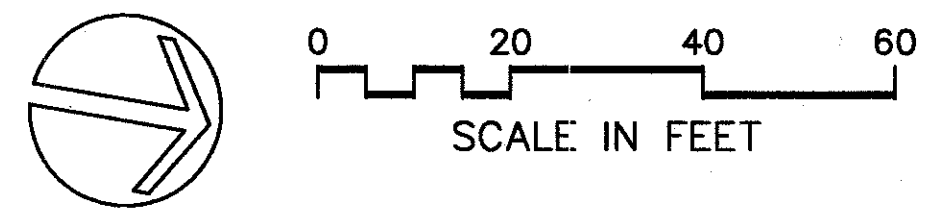
MATCHLINE - SEE SHEET I-2

MATCHLINE - SEE LOWER LEFT

MATCHLINE - SEE UPPER RIGHT

MATCHLINE - SEE SHEET I-4

SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.
 SEE SHEET 19 FOR IRRIGATION LEGEND.
 FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.
 ALL IRRIGATION HEADS SHALL BE OFFSET 6 INCHES FROM BACK OF CURB, GUARDRAIL OR PAVING.
 FOR TRENCH RESURFACING IN STREETS USE DETAIL SDG-107.



I-3

COUNTY OF SAN DIEGO
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 APPROVED BY: _____ DATE _____

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS IRRIGATION PLAN

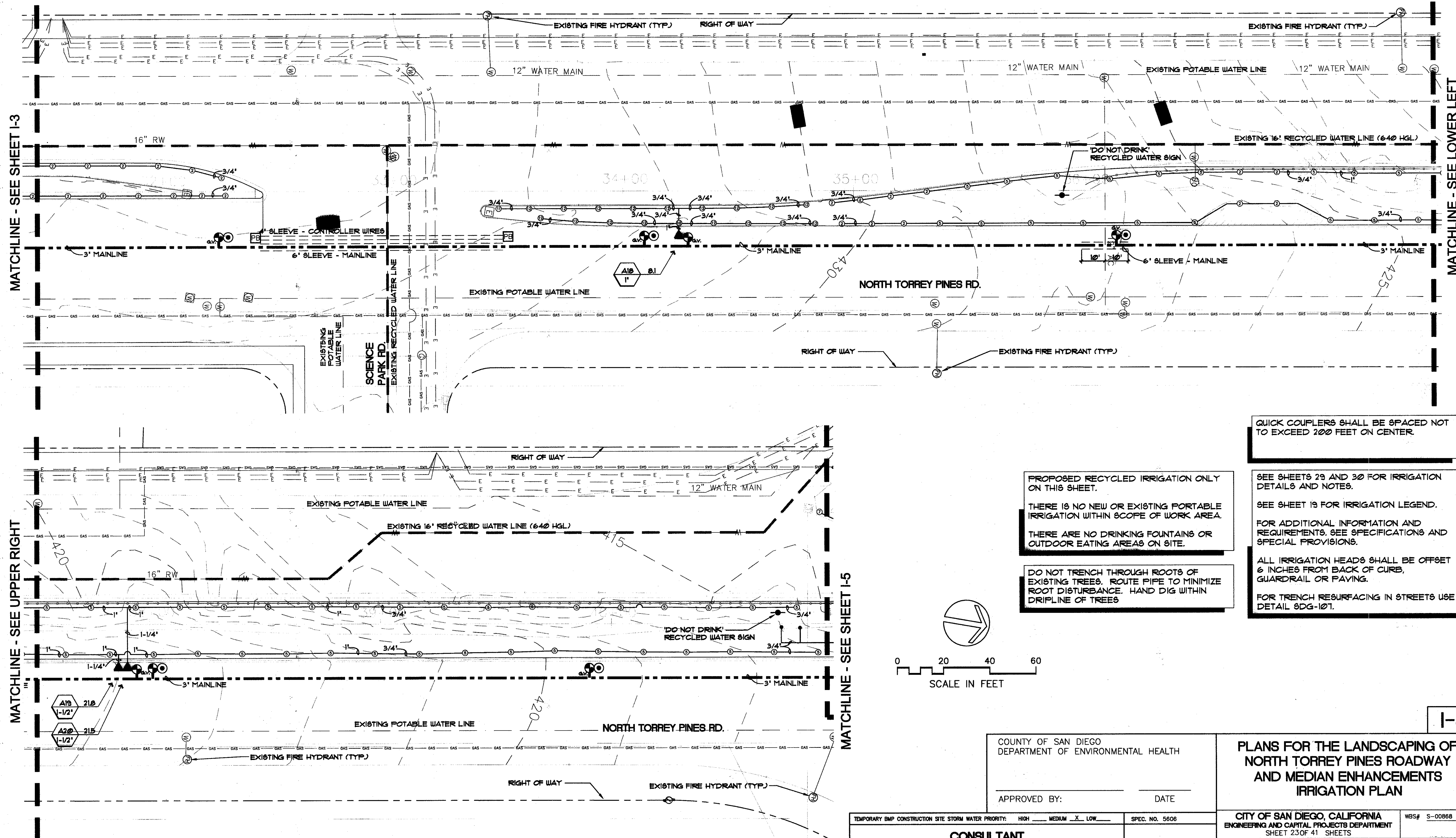
WARNING
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CONSULTANT
Estrada Land Planning
 Urban Design Landscape Architecture Computer Imaging
 619.236.0143
 225 Broadway, Suite 1160
 San Diego, California 92101
 619.236.0578 Fax
 ELP@EstradaLandPlan.com



CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 22 OF 41 SHEETS		WBS# S-00868
FOR CITY ENGINEER	DATE 6/11/13	DESIGNED BY LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION ORIGINAL	BY ELP	APPROVED DATE FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
		266-1695 CC87 COORDINATE 6256407-1906444 CC88 COORDINATE 36665-22-D

NORTH TORREY PINES



MATCHLINE - SEE SHEET I-3

MATCHLINE - SEE LOWER LEFT

MATCHLINE - SEE UPPER RIGHT

MATCHLINE - SEE SHEET I-5

QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER.

PROPOSED RECYCLED IRRIGATION ONLY ON THIS SHEET.
 THERE IS NO NEW OR EXISTING PORTABLE IRRIGATION WITHIN SCOPE OF WORK AREA.
 THERE ARE NO DRINKING FOUNTAINS OR OUTDOOR EATING AREAS ON SITE.

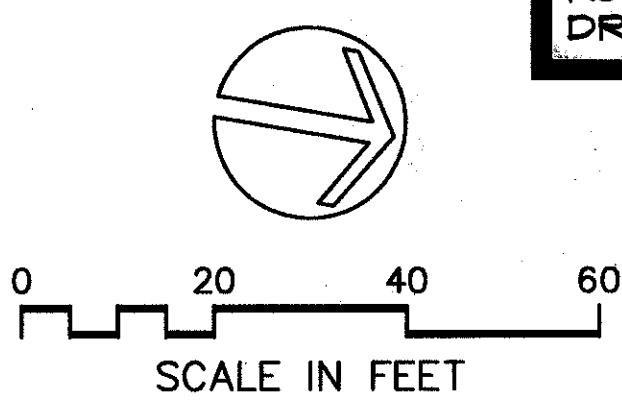
SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.
 SEE SHEET 19 FOR IRRIGATION LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

ALL IRRIGATION HEADS SHALL BE OFFSET 6 INCHES FROM BACK OF CURB, GUARDRAIL OR PAVING.

FOR TRENCH RESURFACING IN STREETS USE DETAIL SDG-107.

DO NOT TRENCH THROUGH ROOTS OF EXISTING TREES. ROUTE PIPE TO MINIMIZE ROOT DISTURBANCE. HAND DIG WITHIN DRIPLINE OF TREES



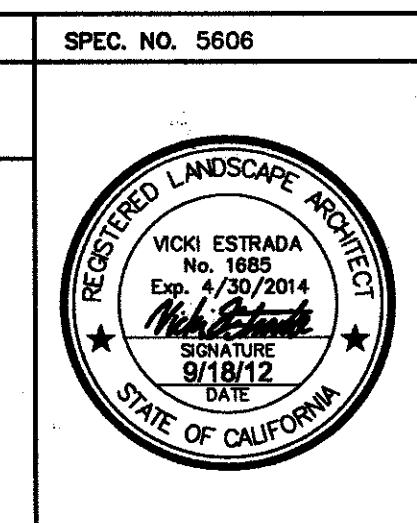
WARNING
 0 1
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

COUNTY OF SAN DIEGO
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 APPROVED BY: _____ DATE _____

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS IRRIGATION PLAN

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM LOW _____ SPEC. NO. 5606

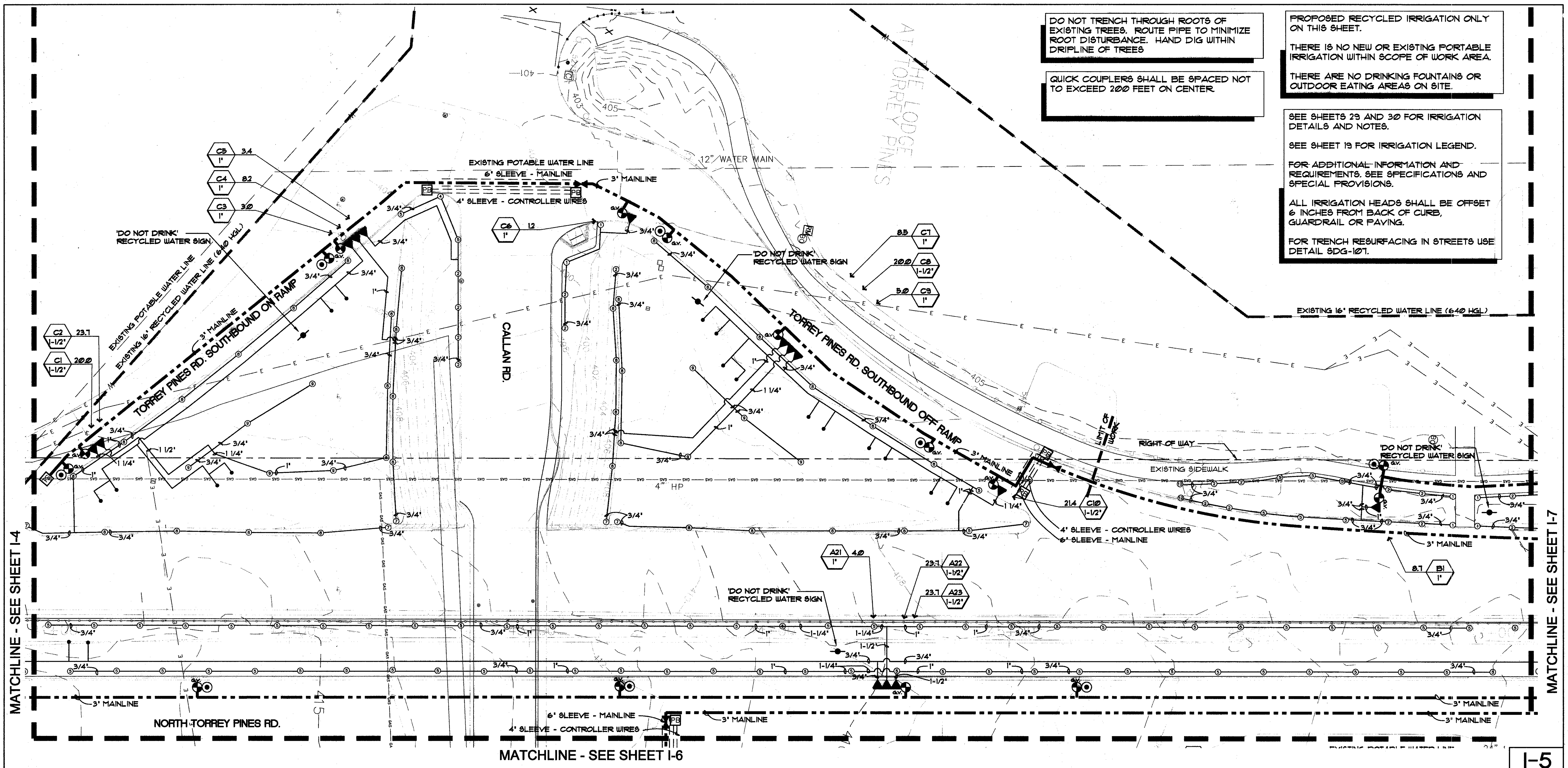
CONSULTANT
Estrada Land Planning
 Urban Design Landscape Architecture Computer Imaging
 619.236.0143
 225 Broadway, Suite 1160
 San Diego, California 92101
 619.236.0578 Fax
 ELP@EstradaLandPlan.com



CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 23 OF 41 SHEETS				WBS# S-00868
FOR CITY ENGINEER	DATE			LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ELP			
				SABEEN COCHINWALA PROJECT ENGINEER
				266-1695 CC827 COORDINATE
				6256407-1906444 CC885 COORDINATE
CONTRACTOR	DATE STARTED			
INSPECTOR	DATE COMPLETED			
				36665-23-D

NORTH TORREY PINES

I-4



DO NOT TRENCH THROUGH ROOTS OF EXISTING TREES. ROUTE PIPE TO MINIMIZE ROOT DISTURBANCE. HAND DIG WITHIN DRIFTLINE OF TREES

QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER

PROPOSED RECYCLED IRRIGATION ONLY ON THIS SHEET.

THERE IS NO NEW OR EXISTING PORTABLE IRRIGATION WITHIN SCOPE OF WORK AREA.

THERE ARE NO DRINKING FOUNTAINS OR OUTDOOR EATING AREAS ON SITE.

SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.

SEE SHEET 19 FOR IRRIGATION LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

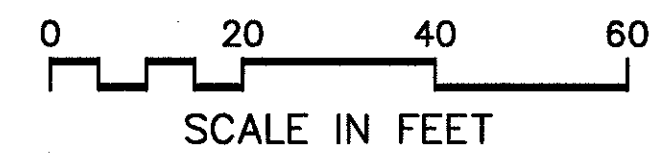
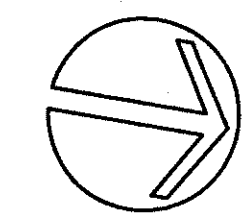
ALL IRRIGATION HEADS SHALL BE OFFSET 6 INCHES FROM BACK OF CURB, GUARDRAIL OR PAVING.

FOR TRENCH RESURFACING IN STREETS USE DETAIL SDG-107.

MATCHLINE - SEE SHEET I-4

MATCHLINE - SEE SHEET I-7

I-5



COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPROVED BY: _____ DATE _____

**PLANS FOR THE LANDSCAPING OF
NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENTS
IRRIGATION PLAN**

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 24 OF 41 SHEETS

APPROVED: *[Signature]* 6/11/12 DATE

FOR CITY ENGINEER: *[Signature]* DATE

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	ELP			

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

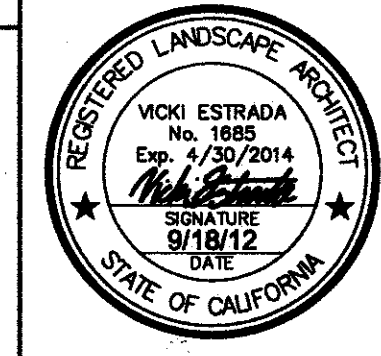
WBS# S-00868
LOUIS SCHULTZ
PROJECT MANAGER
SABEEN COCHINWALA
PROJECT ENGINEER
266-1695
CC87 COORDINATE
6256407-1906444
CC88 COORDINATE
36665-24-D

WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

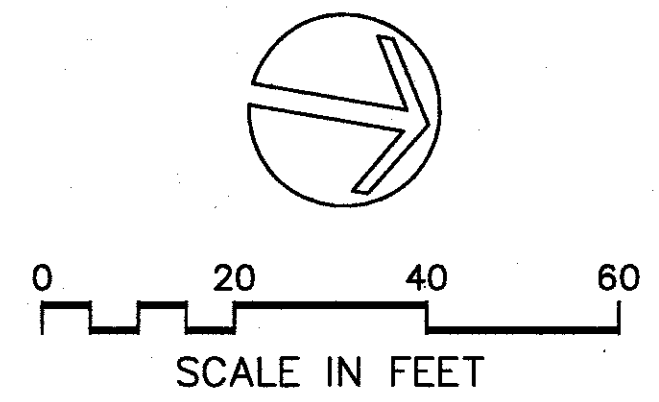
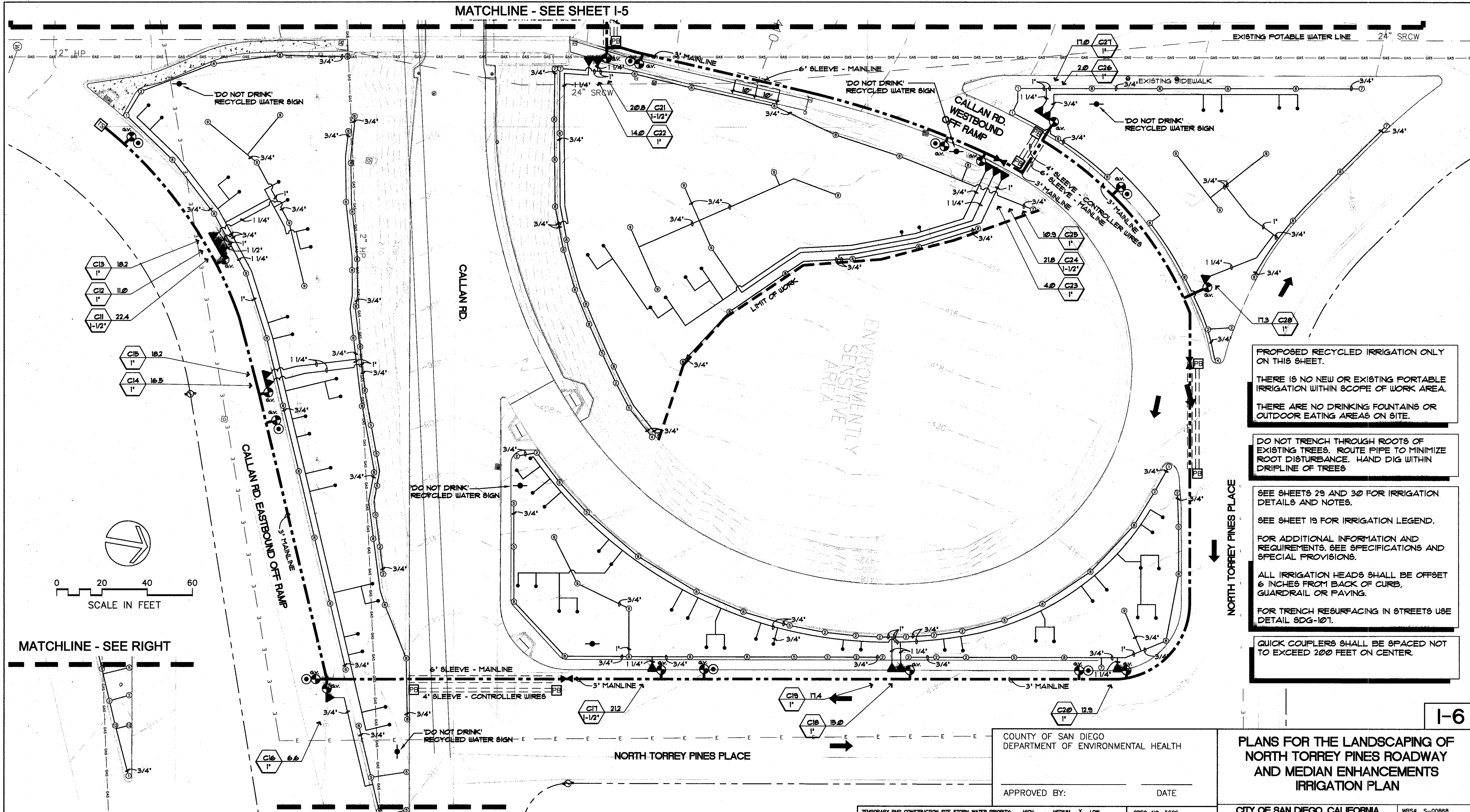
CONSULTANT

Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com



NORTH TORREY PINES



PROPOSED RECYCLED IRRIGATION ONLY ON THIS SHEET.

THERE IS NO NEW OR EXISTING PORTABLE IRRIGATION WITHIN SCOPE OF WORK AREA.

THERE ARE NO DRINKING FOUNTAINS OR OUTDOOR EATING AREAS ON SITE.

DO NOT TRENCH THROUGH ROOTS OF EXISTING TREES. ROUTE PIPE TO MINIMIZE ROOT DISTURBANCE. HAND DIG WITHIN DRIPLINE OF TREES

SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.

SEE SHEET 19 FOR IRRIGATION LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

ALL IRRIGATION HEADS SHALL BE OFFSET 6 INCHES FROM BACK OF CURB, GUARDRAIL OR PAVING.

FOR TRENCH RESURFACING IN STREETS USE DETAIL SDG-107.

QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER.

1-6

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPROVED BY: _____ DATE _____

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS IRRIGATION PLAN

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____ SPEC. NO. 5606

CONSULTANT

Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging

619.238.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.238.0678 Fax
ELP@EstradaLandPlan.com

WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

REGISTERED LANDSCAPE ARCHITECT

VICKI ESTRADA
No. 1885
Exp. 1/30/2014
3/18/12
DATE

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 25 OF 41 SHEETS

WBS# S-00868

APPROVED BY: *[Signature]* 6/20/13 DATE

FOR CITY ENGINEER

LOUIS SCHULTZ
PROJECT MANAGER

SABEEN COCHINWALA
PROJECT ENGINEER

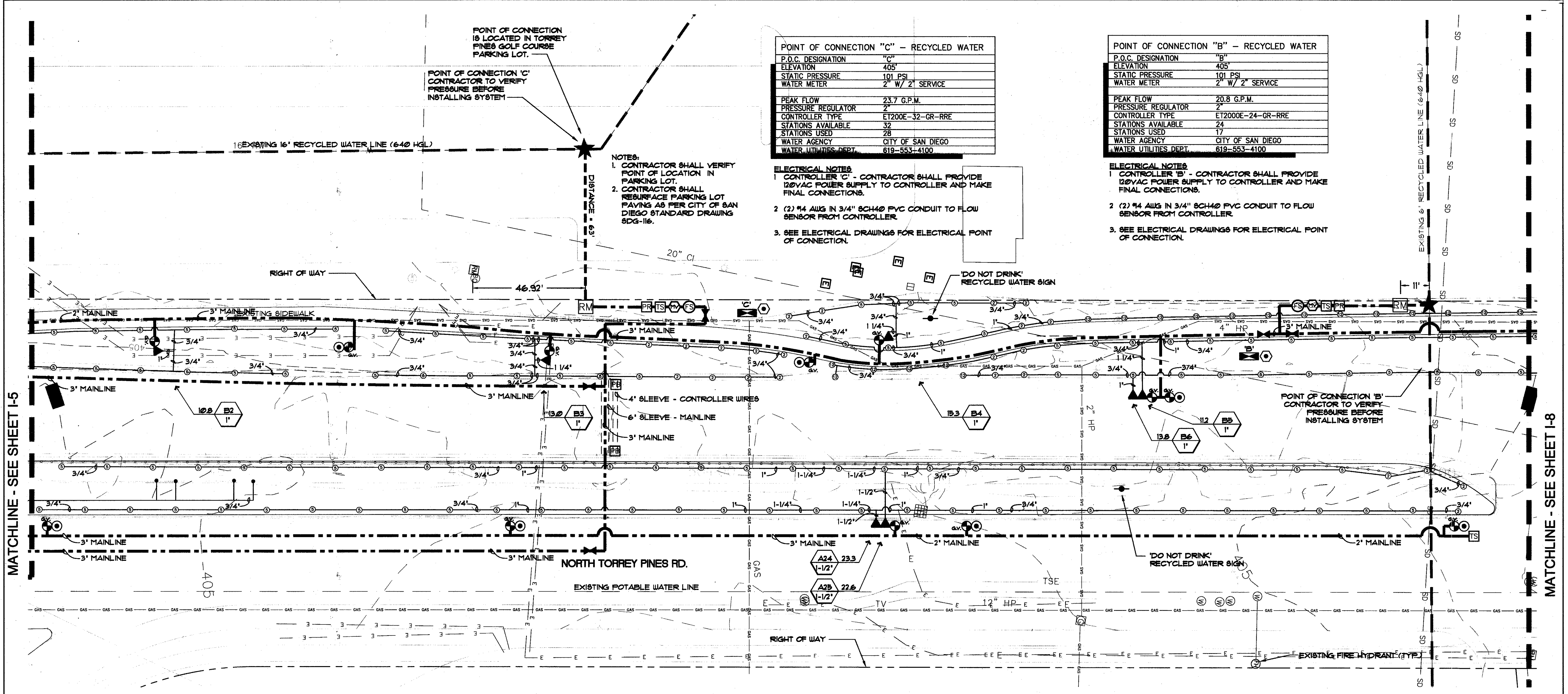
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ELP			

270-1695
CC827 COORDINATE
6256407-1910444
CC888 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36665-25-D

NORTH TORREY PINES



POINT OF CONNECTION "C" - RECYCLED WATER

P.O.C. DESIGNATION	"C"
ELEVATION	405'
STATIC PRESSURE	101 PSI
WATER METER	2" W/ 2" SERVICE
PEAK FLOW	23.7 G.P.M.
PRESSURE REGULATOR	2"
CONTROLLER TYPE	ET200E-32-GR-RRE
STATIONS AVAILABLE	32
STATIONS USED	28
WATER AGENCY	CITY OF SAN DIEGO
WATER UTILITIES DEPT.	619-553-4100

POINT OF CONNECTION "B" - RECYCLED WATER

P.O.C. DESIGNATION	"B"
ELEVATION	405'
STATIC PRESSURE	101 PSI
WATER METER	2" W/ 2" SERVICE
PEAK FLOW	20.8 G.P.M.
PRESSURE REGULATOR	2"
CONTROLLER TYPE	ET200E-24-GR-RRE
STATIONS AVAILABLE	24
STATIONS USED	17
WATER AGENCY	CITY OF SAN DIEGO
WATER UTILITIES DEPT.	619-553-4100

- NOTES:
- CONTRACTOR SHALL VERIFY POINT OF LOCATION IN PARKING LOT.
 - CONTRACTOR SHALL RESURFACE PARKING LOT PAVING AS PER CITY OF SAN DIEGO STANDARD DRAWING SDG-116.

- ELECTRICAL NOTES:
- CONTROLLER "C" - CONTRACTOR SHALL PROVIDE 120VAC POWER SUPPLY TO CONTROLLER AND MAKE FINAL CONNECTIONS.
 - (2) #4 AWG IN 3/4" SCH40 PVC CONDUIT TO FLOW SENSOR FROM CONTROLLER.
 - SEE ELECTRICAL DRAWINGS FOR ELECTRICAL POINT OF CONNECTION.

- ELECTRICAL NOTES:
- CONTROLLER "B" - CONTRACTOR SHALL PROVIDE 120VAC POWER SUPPLY TO CONTROLLER AND MAKE FINAL CONNECTIONS.
 - (2) #4 AWG IN 3/4" SCH40 PVC CONDUIT TO FLOW SENSOR FROM CONTROLLER.
 - SEE ELECTRICAL DRAWINGS FOR ELECTRICAL POINT OF CONNECTION.

MATCHLINE - SEE SHEET I-5

MATCHLINE - SEE SHEET I-8

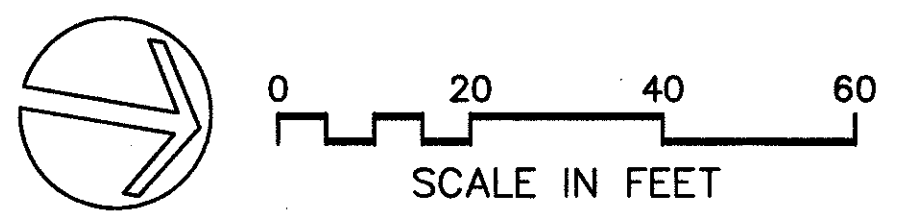
NORTH TORREY PINES

I-7

SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.
SEE SHEET 19 FOR IRRIGATION LEGEND.
FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.
ALL IRRIGATION HEADS SHALL BE OFFSET 6 INCHES FROM BACK OF CURB, GUARDRAIL OR PAVING.
FOR TRENCH RESURFACING IN STREETS USE DETAIL SDG-107.

PROPOSED RECYCLED IRRIGATION ONLY ON THIS SHEET.
THERE IS NO NEW OR EXISTING PORTABLE IRRIGATION WITHIN SCOPE OF WORK AREA.
THERE ARE NO DRINKING FOUNTAINS OR OUTDOOR EATING AREAS ON SITE.
DO NOT TRENCH THROUGH ROOTS OF EXISTING TREES. ROUTE PIPE TO MINIMIZE ROOT DISTURBANCE. HAND DIG WITHIN DRIPLINE OF TREES

QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER.



WARNING
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPROVED BY: _____ DATE _____

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ X _____ LOW _____ SPEC. NO. 5606

CONSULTANT
Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging
619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS IRRIGATION PLAN

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 26 OF 41 SHEETS

WBS# S-00868

FOR CITY ENGINEER: *[Signature]* DATE: 6/11/13

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	ELP			

LOUIS SCHULTZ
PROJECT MANAGER

SABEEN COCHINWALA
PROJECT ENGINEER

270-1695
CC87 COORDINATE

6256407-1910444
CC88 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

36665-26-D

QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER.

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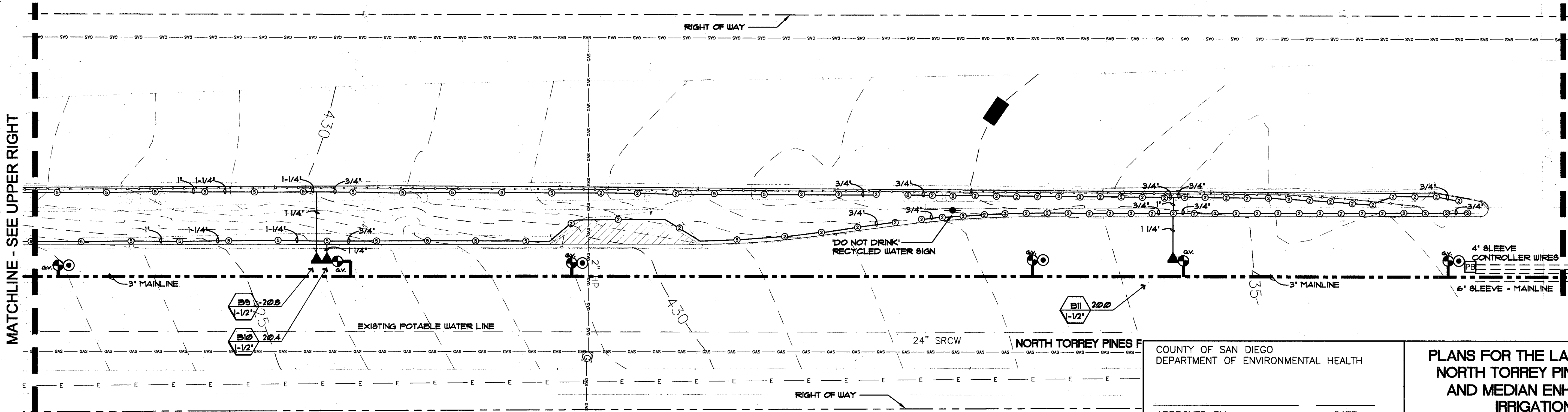
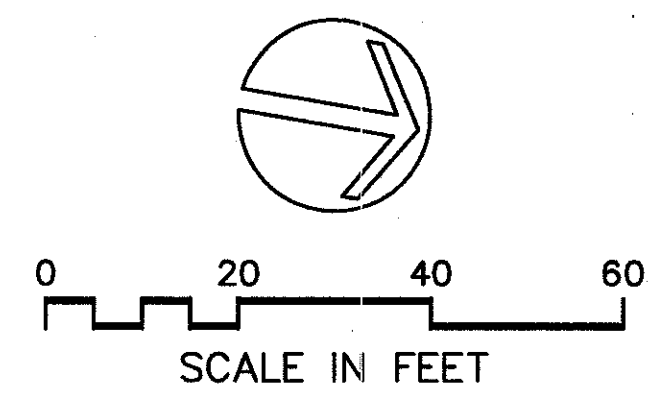
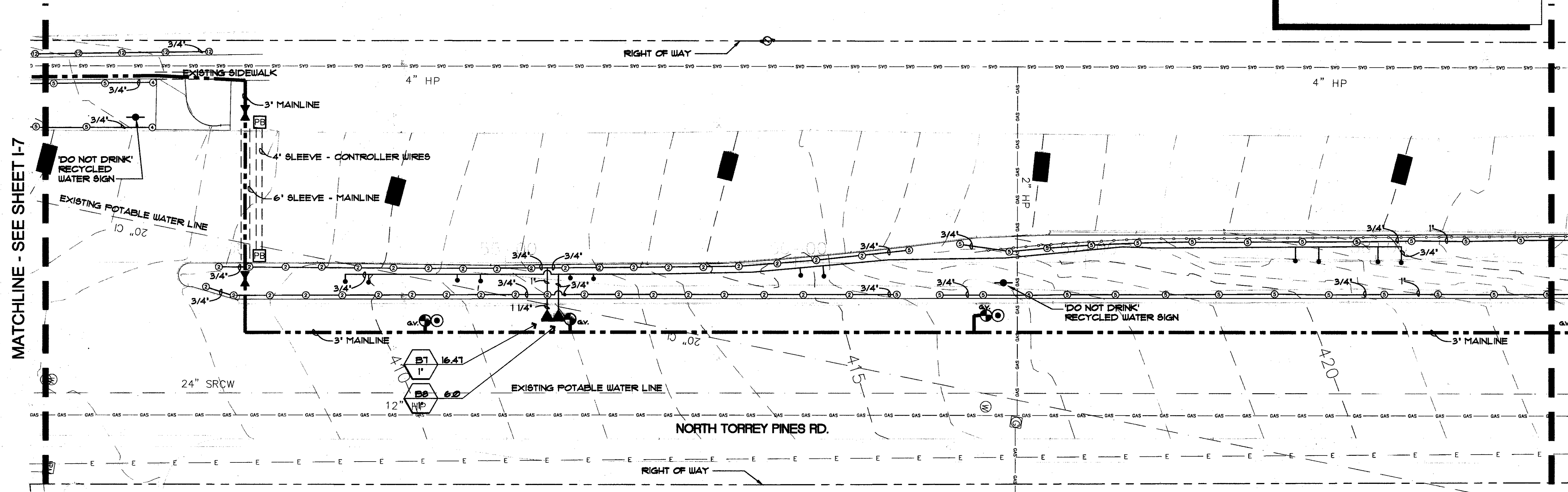
SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.

SEE SHEET 19 FOR IRRIGATION LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS. SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

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FOR TRENCH RESURFACING IN STREETS USE DETAIL SDG-107.



1-8

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
APPROVED BY: _____ DATE _____

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS IRRIGATION PLAN

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 27 OF 41 SHEETS

APPROVED BY: <i>Ben Johnson</i> FOR CITY ENGINEER	DATE: 6/11/13	APPROVED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: ELP	APPROVED: []
	DATE: []	FILED: []
		270-1695
		CC87 COORDINATE
		6256407-1910444
		CC88 COORDINATE
CONTRACTOR: _____	DATE STARTED: _____	36665-27-D
INSPECTOR: _____	DATE COMPLETED: _____	

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH ___ MEDIUM ___ X ___ LOW ___ SPEC. NO. 5606

CONSULTANT

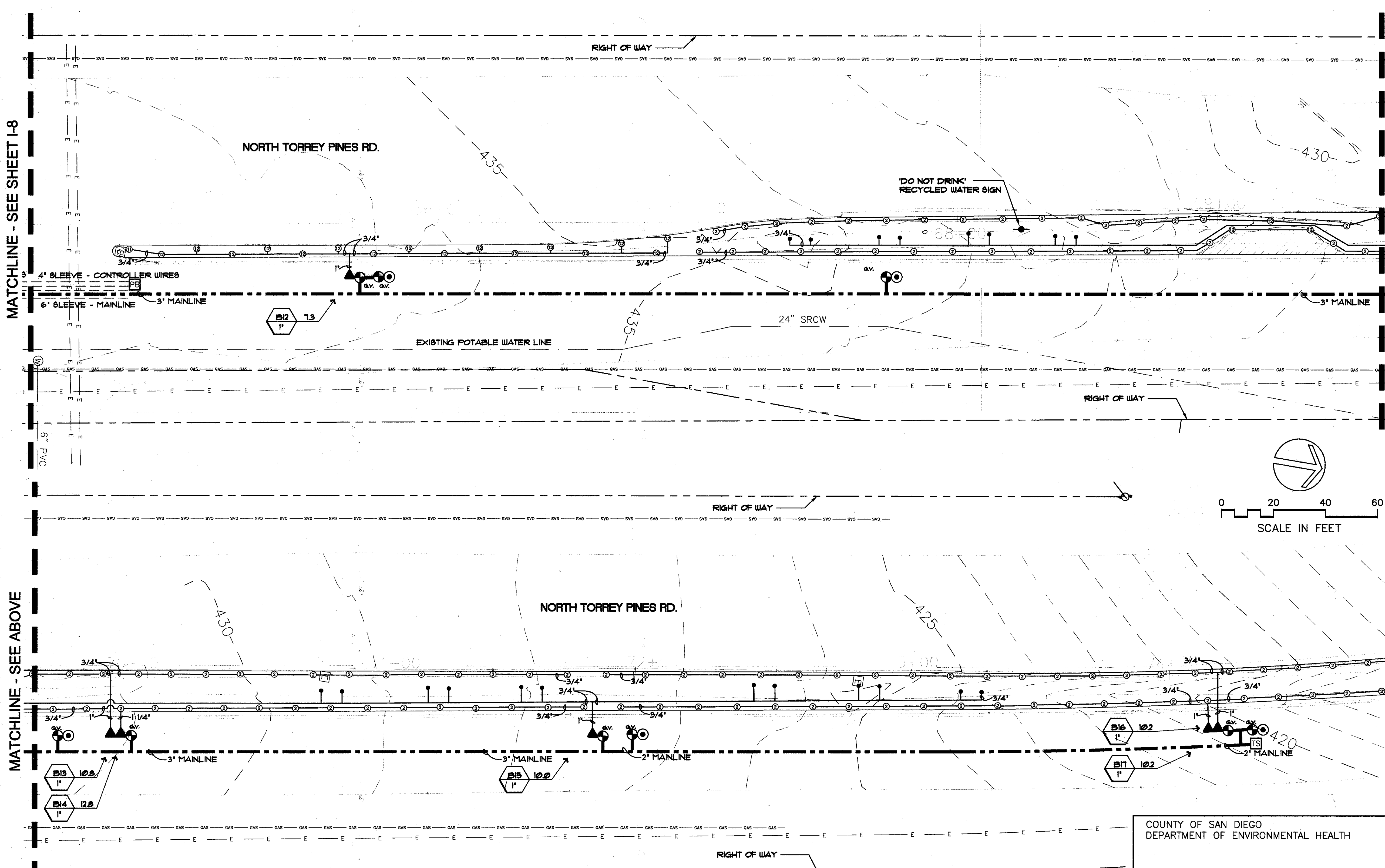
Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NORTH TORREY PINES



PROPOSED RECYCLED IRRIGATION ONLY ON THIS SHEET.

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SEE SHEETS 29 AND 30 FOR IRRIGATION DETAILS AND NOTES.

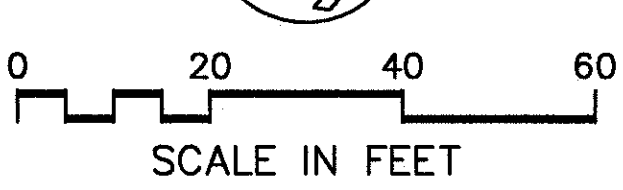
SEE SHEET 19 FOR IRRIGATION LEGEND.

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QUICK COUPLERS SHALL BE SPACED NOT TO EXCEED 200 FEET ON CENTER.



LIMIT OF WORK 75+69

1-9

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

APPROVED BY: _____ DATE _____

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS IRRIGATION PLAN

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM LOW SPEC. NO. 5606

CONSULTANT

Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging

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225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

REGISTERED LANDSCAPE ARCHITECT
WICKI ESTRADA
No. 1005
Exp. 4/30/2014
STATE OF CALIFORNIA

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 28 OF 41 SHEETS

WBS# S-00868

APPROVED: *Ben J. Dalton* 6/10/13
FOR CITY ENGINEER DATE

DESIGNED BY: LOUIS SCHULTZ
PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ELP			

DESIGNED BY: SABEEN COCHINWALA
PROJECT ENGINEER

270-1695
CC87 COORDINATE

6256407-1910444
CC88 COORDINATE

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

36665-28-D

WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NORTH TORREY PINES

RECYCLED WATER STANDARD NOTES - CITY AND COUNTY OF SAN DIEGO



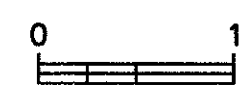
1. 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION ON-SITE IMPROVEMENTS, CONTRACTOR SHALL NOTIFY THE CITY OF SAN DIEGO, WATER DEPARTMENT, RECLAIMED WATER SECTION AT (619) 533-1951.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SAN DIEGO 'RULES AND REGULATIONS FOR RECLAIMED WATER USE AND DISTRIBUTION WITHIN THE CITY OF SAN DIEGO' - APRIL 1996 AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH REQUIREMENTS.
3. ALL BACKFLOW PREVENTER INSTALLATIONS AND LOCATIONS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF SAN DIEGO'S WATER DEPARTMENT.
4. ALL PUBLIC FACILITIES SUCH AS CONFORT STATIONS, DRINKING FOUNTAINS, ETC. SHALL BE PROTECTED FROM SPRAY AND/OR MISTING BY RECLAIMED WATER.
5. NO FONDING, RUN-OFF OR OVERSPRAY IS PERMITTED. ADJUST ALL SPRINKLER HEADS TO PREVENT OVERSPRAYING ONTO SIDEWALKS, STREETS AND PRIVATE LOTS.
6. HOSE BIBS ON RECLAIMED WATER SYSTEMS ARE PROHIBITED.
7. ON-SITE CROSS CONNECTION BETWEEN RECLAIMED WATER LINES AND POTABLE IS STRICTLY PROHIBITED.
8. QUICK COUPLING VALVES USED IN RECLAIMED WATER SYSTEMS SHALL CONFORM TO THE FOLLOWING:
 - A. QUICK COUPLING VALVES SHALL BE 1" (INCH) NOMINAL SIZE NELSON #1645, WITH BRASS CONSTRUCTION AND A NORMAL WORKING PRESSURE OF 150 P.S.I. OR RAINBOW #441P. INSTALL QUICK COUPLERS NO CLOSER THAN 200 FEET O.C. AND NO CLOSER THAN 100 FEET TO ANY HARDSCAPE OR STRUCTURE.
 - B. IN ORDER TO PREVENT UNAUTHORIZED USE, THE VALVE SHALL BE OPERATED ONLY WITH A SPECIAL COUPLER KEY WITH AN ACME THREAD FOR OPENING AND CLOSING THE VALVE.
 - C. THE COVER SHALL BE PERMANENTLY ATTACHED TO THE QUICK COUPLING VALVES. IT SHALL BE PURPLE RUBBER OR VINYL.
 - D. LOCKING COVERS ARE REQUIRED.
9. NO SUBSTITUTION OF PIPE MATERIAL WILL BE ALLOWED WITHOUT PRIOR APPROVAL BY THE CITY OF SAN DIEGO.
10. INSTALL APPROVED, METALLIC BACKED AND STENCILED WARNING TAPE OVER ALL PRESSURE RECLAIMED WATER LINES. STENCIL AND COLOR CODE (PURPLE PANTONE #522) ALL IRRIGATION PIPE. ORIENT THE STENCILING TO THE TOP OF THE TRENCH.
11. PROVIDE A MINIMUM OF AT LEAST 18 INCHES OF COVERING OVER ALL WIRING AND PIPING.
12. OPERATE THE IRRIGATION SYSTEM ONLY BETWEEN 10:00 PM AND 6:00 AM.
13. WHEN POTABLE WATER LINES AND RECLAIMED WATER LINES CROSS, THE RECLAIMED WATER LINE SHALL BE INSTALLED WITHIN A PROTECTIVE SLEEVE. THE SLEEVE SHALL EXTEND 10 FEET FROM EACH SIDE, FROM THE CENTERLINE OF THE POTABLE LINE, FOR A TOTAL OF 20 FEET.
14. MAINTAIN A 10 FOOT HORIZONTAL SEPARATION BETWEEN POTABLE WATER AND RECLAIMED WATER OR SEWER LINES. INSTALL SEWER LINE BELOW RECLAIMED WATER LINE AND RECLAIMED WATER LINE BELOW THE POTABLE WATER LINE.
15. PROVIDE A MINIMUM OF 12 INCHES OF VERTICAL SEPARATION BETWEEN POTABLE/RECLAIMED WATER/SEWER.
16. INSTALL PURPLE COLORED PANTONE #522 MATERIAL FOR ALL ABOVE GROUND IRRIGATION FACILITIES:
 - VALVE AND OTHER ON-GRADE BOXES - INTEGRAL COLOR
 - BACKFLOW DEVICES - PAINTED 2 COATS OF ENAMEL
 - SPRINKLER HEADS - INTEGRAL COLOR PLASTIC
17. TAG ALL VALVES AND OTHER BELOW GRADE FACILITIES WITHIN BOXES WITH PERMANENT RECLAIMED WATER LABELS THAT ID THE FACILITY AS 'RECLAIMED WATER - DO NOT DRINK' IN BOTH SPANISH AND ENGLISH. ATTACH THE LABEL WITH EITHER STAINLESS STEEL WIRE OR SELF LOCKING PLASTIC TIES.
18. THE REQUIRED CROSS CONNECTION TEST SHALL BE DONE BY EITHER THE CITY OF SAN DIEGO AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. COPIES OF THE INSPECTION REPORTS WILL BE FORWARDED TO THE NON-INSPECTING PARTY.
19. THE DESIGN LOCATIONS PROPOSED FOR RECLAIMED WATER 'DO NOT DRINK' SIGNS SHALL BE CALLED OUT ON THE PLANS.
20. AN ANNUAL CROSS CONNECTION INSPECTION WILL BE DONE BY THE CITY OF SAN DIEGO SUBJECT TO APPROVAL BY THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. COPIES OF THE INSPECTION REPORTS WILL BE FORWARDED TO THE NON-INSPECTING PARTY.
21. PRIOR TO CONVERSION TO RECLAIMED WATER, AN ON-SITE SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY AND WITH THE BASIC SPECIFIC REQUIREMENTS OF RECLAIMED WATER SYSTEMS. THE DESIGNATED 'SITE SUPERVISOR' SHALL ATTEND THE COUNTY WATER AUTHORITY'S CLASS FOR RECLAIMED WATER SITE SUPERVISORS. COPIES OF THE SITE SUPERVISOR'S CERTIFICATE WITH A 24-HOUR CONTACT NUMBER SHALL BE PROVIDED TO THE CITY OF SAN DIEGO AND COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.
22. A PHYSICAL SEPARATION SHALL BE PROVIDED BETWEEN ADJACENT AREAS OF IRRIGATION WITH RECYCLED WATER AND POTABLE WATER. SEPARATION SHALL BE PROVIDED BY CONCRETE MOW STRIPS, CHAIN FENCES, OR OTHER MEANS AS APPROVED BY THE CITY OF SAN DIEGO AND THE COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH.
23. CALL OUT ON THE PLANS IF THERE ARE OR ARE NOT ANY DRINKING FOUNTAINS AND/OR DESIGNATED OUTDOOR EATING AREAS ON THE SITE.
24. NON-DESIGNATED USE AREAS SHALL BE PROTECTED FROM CONTACT WITH RECLAIMED WATER, WHETHER BY WINDBLOWN SPRAY OR BY DIRECT APPLICATION THROUGH IRRIGATION OR OTHER USE. LACK OF PROTECTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE, OR SYSTEM OPERATIONS IS STRICTLY PROHIBITED.
25. THE HOURS OF IRRIGATION WITH DISINFECTED TERTIARY MAY BE MODIFIED BY THE LOCAL AUTHORITY. IRRIGATION DURING PUBLIC USE PERIODS WITH THE DISINFECTED TERTIARY RECLAIMED WATER SHALL BE UNDER THE SUPERVISION OF THE DESIGNATED USER SUPERVISOR. IRRIGATION WITH WATER OF A LESSOR QUALITY THAN DISINFECTED TERTIARY RECLAIMED WATER SHALL BE BETWEEN THE HOURS OF 10:00 PM AND 6:00 AM.
26. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS AND ANY WATER WELLS AND WATER COURSES WITHIN THE RECLAIMED WATER PROJECT SHALL BE SHOWN ON THE PLANS.
27. THE DEVELOPER/CONTRACTOR SHALL CONDUCT A CROSS CONNECTION CONTROL TEST AND COVERAGE TEST AS DIRECTED BY THE CITY OF SAN DIEGO WATER DEPARTMENT AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH PRIOR TO ANY USE OF RECLAIMED WATER.
28. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS OF THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECLAIMED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND IS NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC. GIVEN THE HIGH TURNOVER RATE OF EMPLOYEES IN THE LANDSCAPE INDUSTRY, IT IS IMPORTANT THIS INFORMATION BE DISSEMINATED ON AN ALMOST DAILY BASIS.

IN CASE OF EMERGENCY CONTACT: **GEORGE FLORES** AT (619) 685-1335
 AFTER HOURS CONTACT: **GEORGE FLORES** AT (619) 685-1335

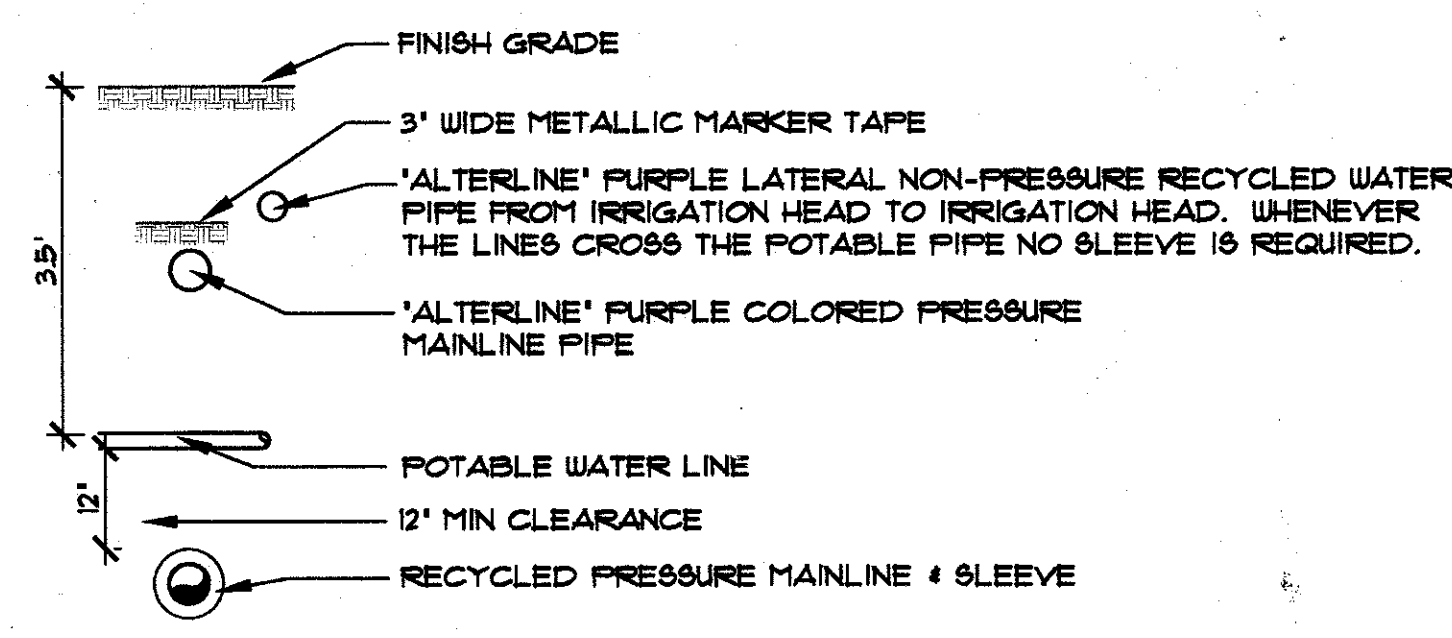
I-10

COUNTY OF SAN DIEGO
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 APPROVED BY: _____ DATE _____

**PLANS FOR THE LANDSCAPING OF
 NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENTS
 IRRIGATION NOTES**

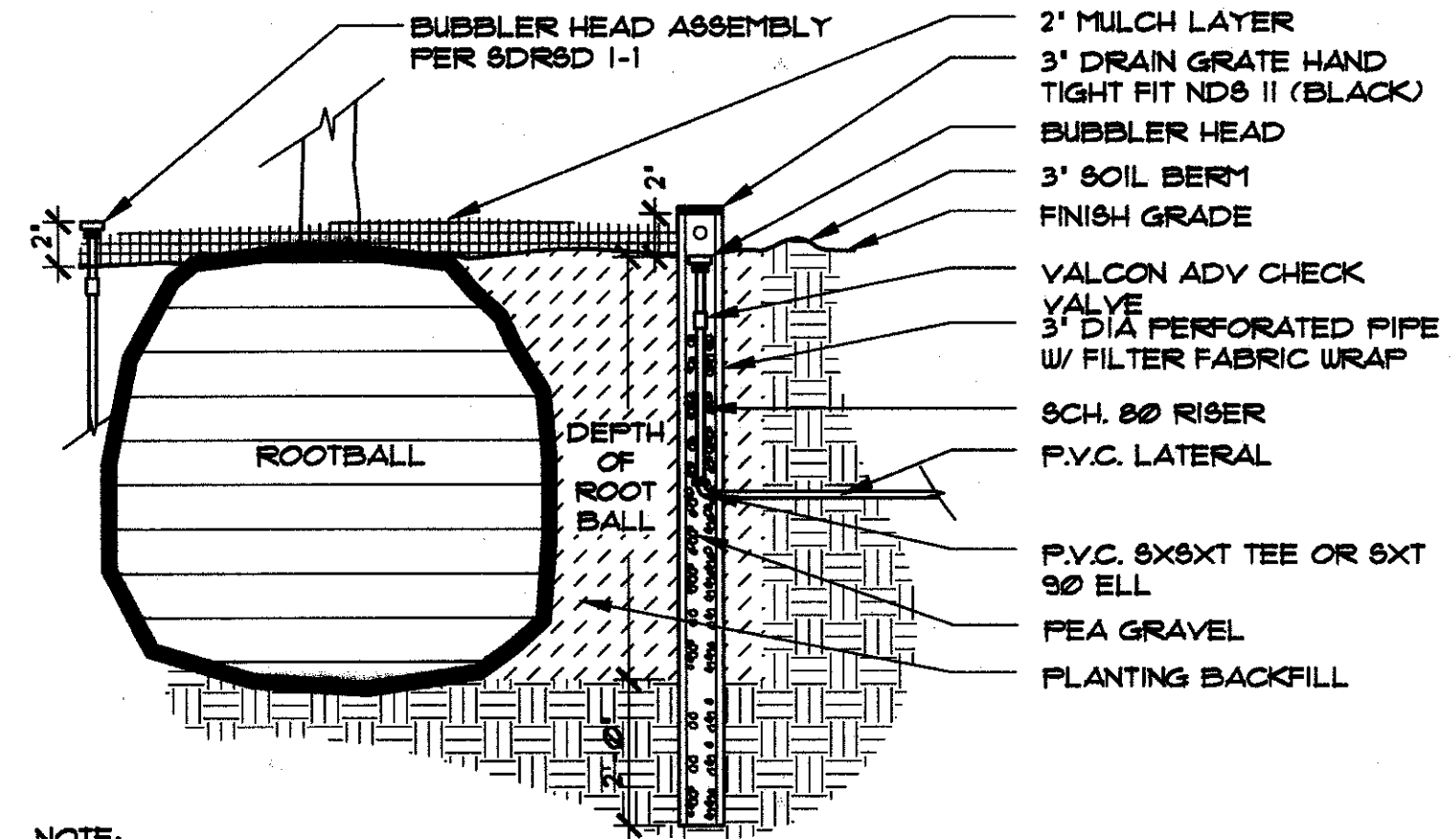
TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____X_____ LOW _____		SPEC. NO. 5606	
CONSULTANT			
 Estrada Land Planning Urban Design Landscape Architecture Computer Imaging 619.236.0143 225 Broadway, Suite 1160 San Diego, California 92101 619.236.0578 Fax ELP@EstradaLandPlan.com		 VICKI ESTRADA No. 1085 Exp. 4/30/2014 STATE OF CALIFORNIA	
WARNING  IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.		CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 29 OF 41 SHEETS WBS# S-00868 APPROVED BY: <i>[Signature]</i> DATE: <i>6/11/13</i> FOR CITY ENGINEER LOUIS SCHULTZ PROJECT MANAGER SAREEN COCHINWALA PROJECT ENGINEER CCB#7 COORDINATE CCB#8 COORDINATE CONTRACTOR _____ DATE STARTED _____ INSPECTOR _____ DATE COMPLETED _____ 36665-29-D	

NORTH TORREY PINES



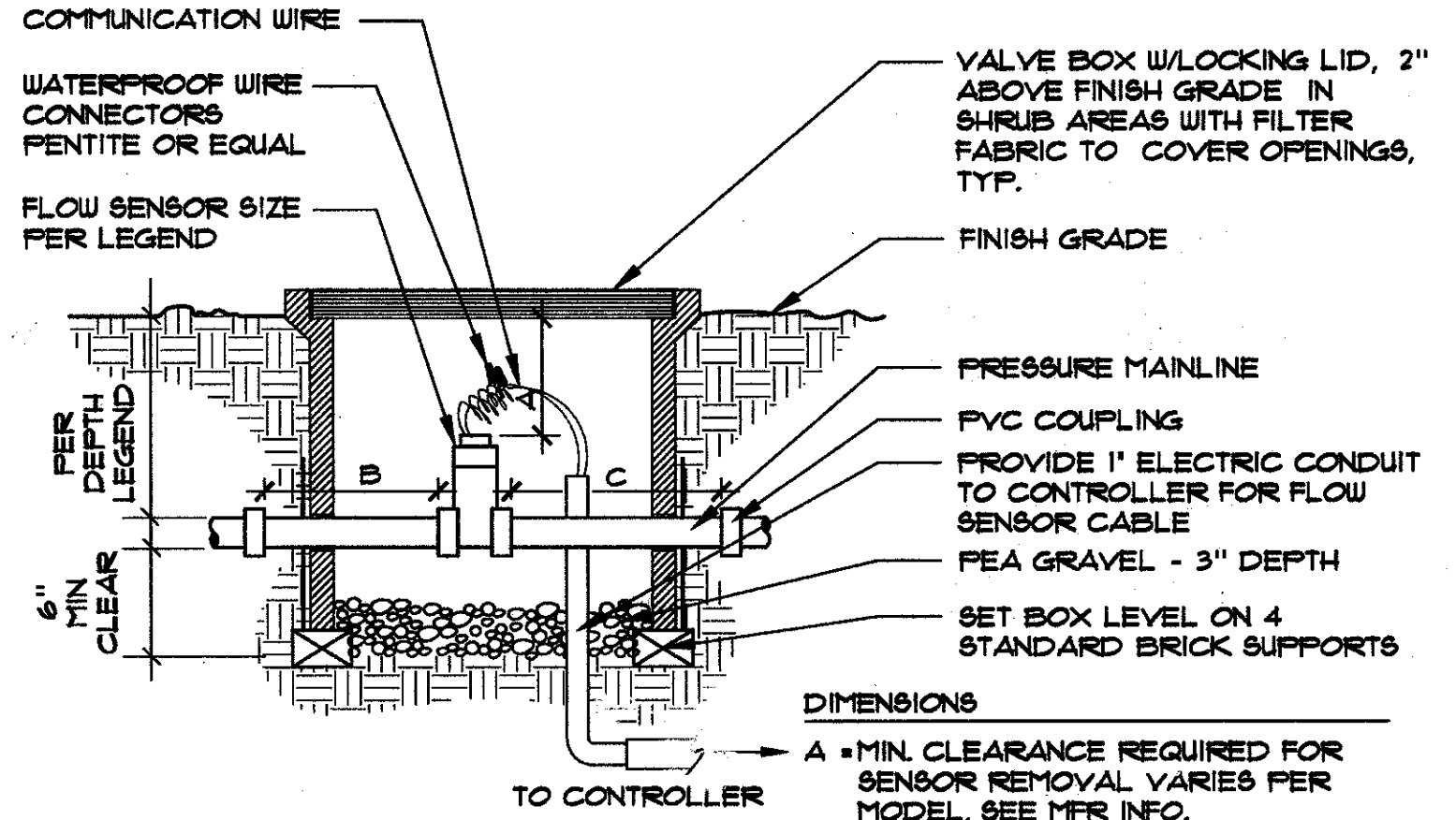
NOTES:
 WHERE POTABLE WATER LINES AND CONSTANT PRESSURE RECYCLED WATER LINES CROSS, THE RECYCLED LINES SHALL BE INSTALLED BELOW THE POTABLE WATER LINE IN CLASS 200 PURPLE COLORED PVC SLEEVE. PVC SLEEVE SHALL EXTEND 10-FEET ON EITHER SIDE OF THE POTABLE LINE FOR A TOTAL OF 20 FEET.

D RECYCLED WATER PIPE/POTABLE WATER PIPE NOT TO SCALE



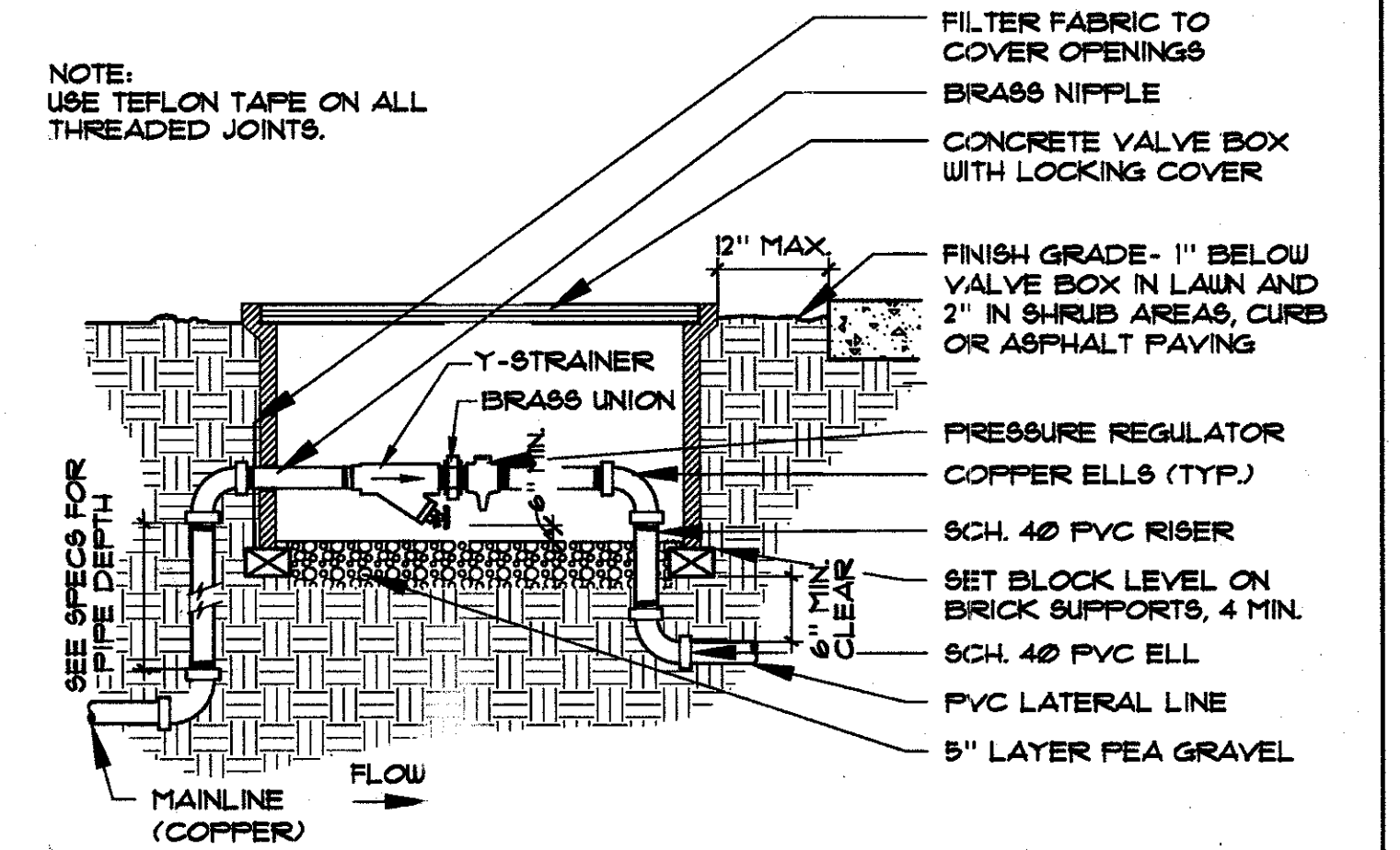
NOTE:
 - INSTALL TWO (2) BUBBLER HEAD ASSEMBLIES PER TREE TRUNK. INSTALL ONE IN PIPE ASSEMBLY AS SHOWN ABOVE, AND ONE 2" ABOVE GRADE PER SDRSD 1-1.
 - PERFORATED PIPE SHALL BE 2 FEET DEEPER THAN ROOTBALL.

C BUBBLER INSTALLATION NOT TO SCALE



NOTE:
 USE TEFLON TAPE ON ALL THREADED JOINTS.

B FLOW SENSOR NOT TO SCALE



NOTE:
 USE TEFLON TAPE ON ALL THREADED JOINTS.

A PRESSURE REGULATOR IN VALVE BOX NOT TO SCALE

1-11

COUNTY OF SAN DIEGO
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 APPROVED BY: _____ DATE _____

PLANS FOR THE LANDSCAPING OF
 NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENTS
 IRRIGATION DETAILS

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH ___ MEDIUM ___ X ___ LOW ___ SPEC. NO. 5606

CONSULTANT
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 Urban Design Landscape Architecture Computer Imaging
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 225 Broadway, Suite 1160
 San Diego, California 92101
 619.236.0578 Fax
 ELP@EstradaLandPlan.com

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET 30 OF 41 SHEETS

APPROVED BY: *[Signature]* DATE: 6/10/12

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	ELP			

FOR CITY ENGINEER: _____ DATE: _____

DESIGNED BY: LOUIS SCHULTZ PROJECT MANAGER
 CHECKED BY: SABEEN COCHINWALA PROJECT ENGINEER
 SEE PLAN CC887 COORDINATE
 SEE PLAN CC888 COORDINATE

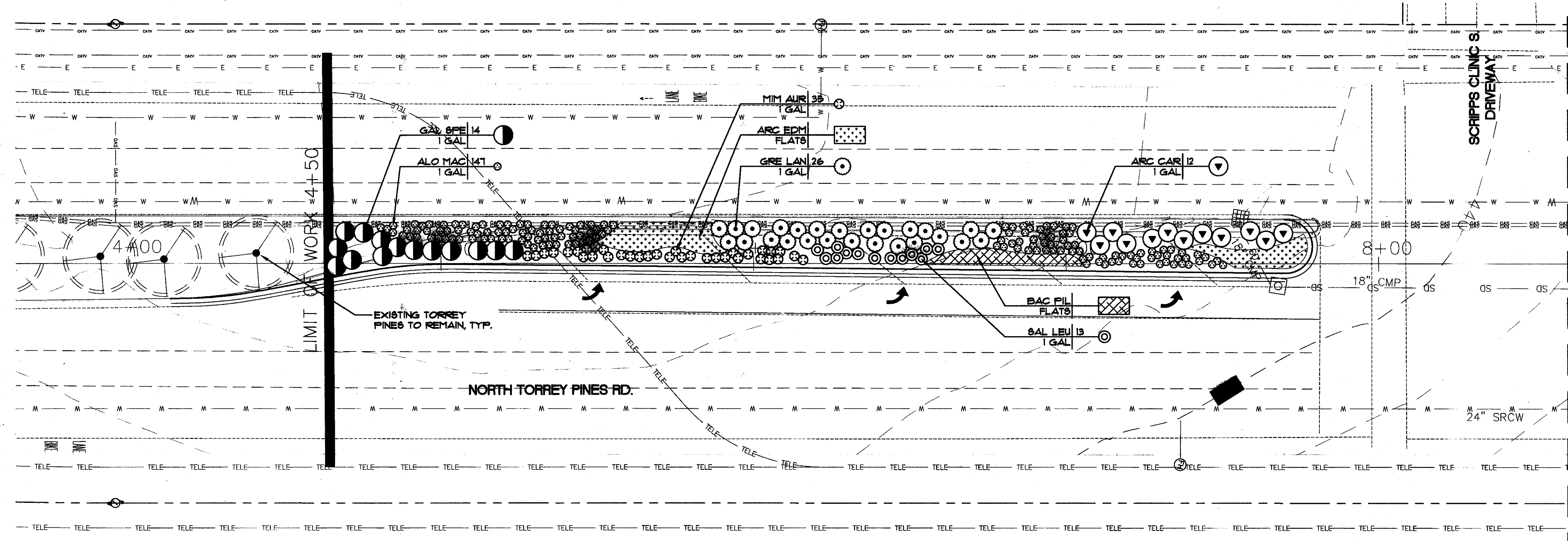
CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

36665-30-D

WARNING
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



NORTH TORREY PINES



MATCHLINE - SEE SHEET P-2

CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE 'NORTH TORREY PINES ROAD MEDIANS ARBORIST REPORT' BY JEREMY RAFFOPORT, CERTIFIED ARBORIST.

TREE REMOVAL AS RECOMMENDED IN THE ARBORIST REPORT SHALL OCCUR PRIOR TO ANY OTHER OPERATION.

CONTRACTOR SHALL OBTAIN THE SERVICES OF A CERTIFIED ARBORIST AT THE START OF THE PROJECT TO DESIGN, SUPERVISE AND INSPECT THE TREE MITIGATION WORK.

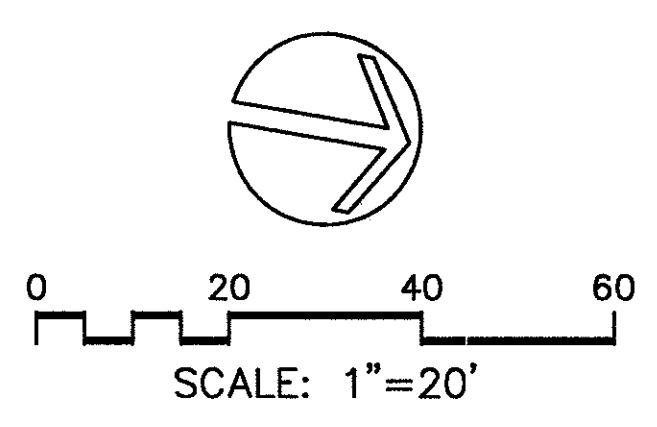
SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.

SEE SHEET 40 FOR PLANTING LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE.

DO NOT PLACE NEW TREES WITHIN 2.5' OF STEEL BACKED TIMBER GUARDRAIL.



P-1

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 31 OF 41 SHEETS

WBS# S-00868

APPROVED BY: <i>[Signature]</i>	DATE: 6/11/13	FOR CITY ENGINEER
LOUIS SCHULTZ	PROJECT MANAGER	
SABEEN COCHINWALA	PROJECT ENGINEER	
270-1695	COORDINATOR	
6256407-1906444	COORDINATOR	
36665-31-D		

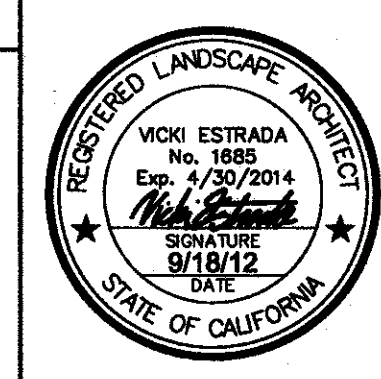
CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____ SPEC. NO. 5606

CONSULTANT

Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging

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225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com



WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NORTH TORREY PINES

MATCHLINE - SEE SHEET P-1

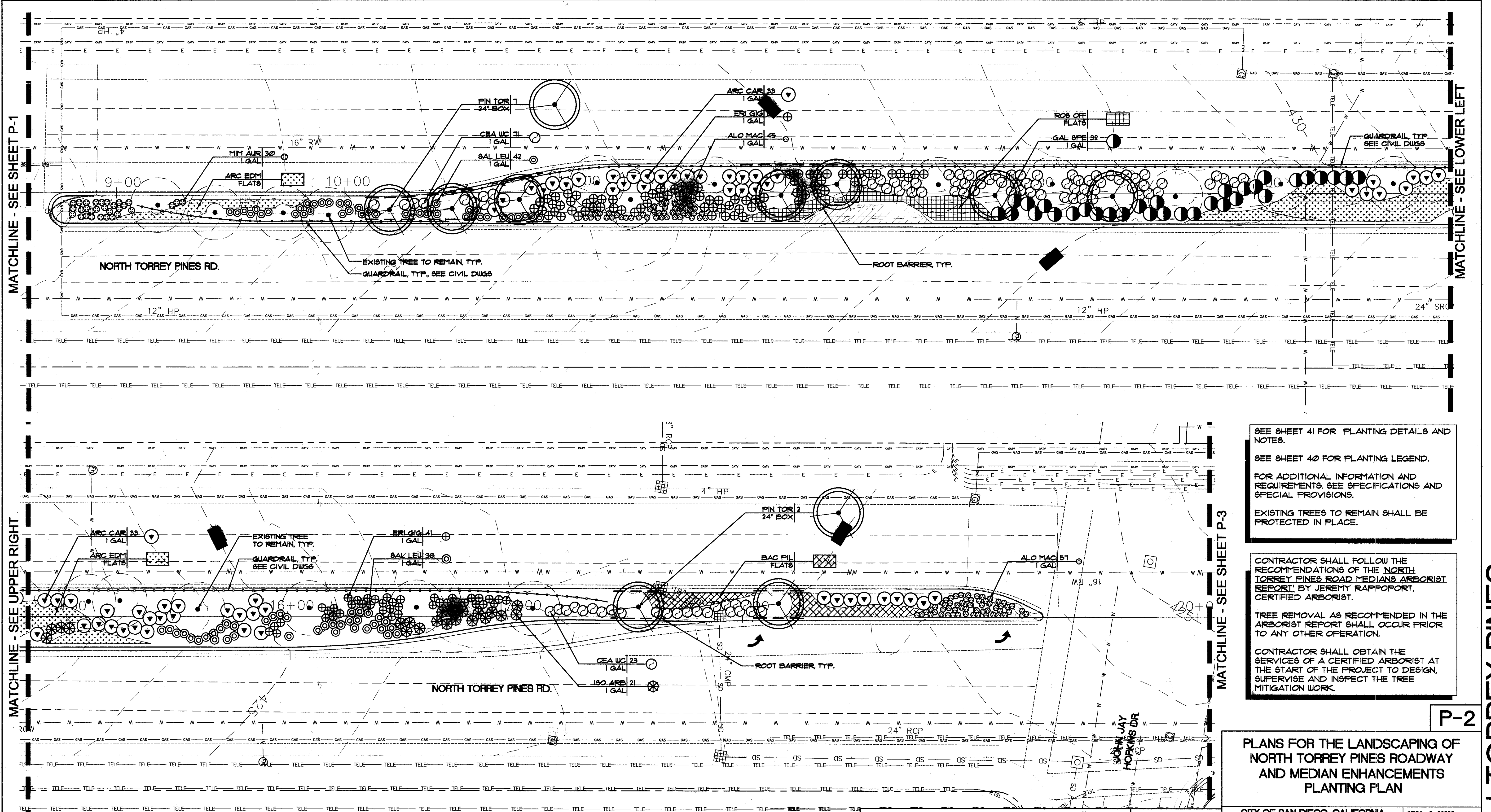
MATCHLINE - SEE LOWER LEFT

MATCHLINE - SEE UPPER RIGHT

MATCHLINE - SEE SHEET P-3

P-2

NORTH TORREY PINES



SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.

SEE SHEET 40 FOR PLANTING LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

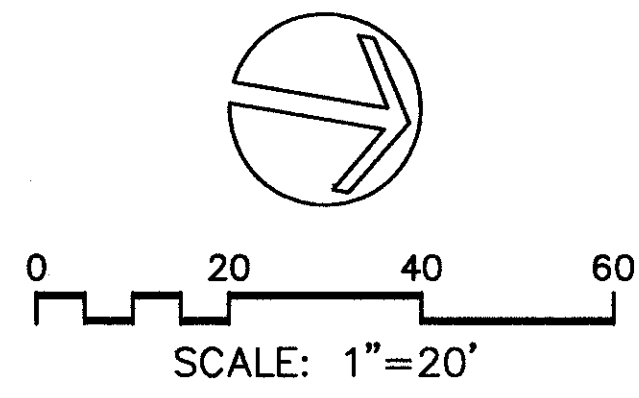
EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE.

CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE NORTH TORREY PINES ROAD MEDIANS ARBORIST REPORT BY JEREMY RAPPOPORT, CERTIFIED ARBORIST.

TREE REMOVAL AS RECOMMENDED IN THE ARBORIST REPORT SHALL OCCUR PRIOR TO ANY OTHER OPERATION.

CONTRACTOR SHALL OBTAIN THE SERVICES OF A CERTIFIED ARBORIST AT THE START OF THE PROJECT TO DESIGN, SUPERVISE AND INSPECT THE TREE MITIGATION WORK.

DO NOT PLACE NEW TREES WITHIN 25' OF STEEL BACKED TIMBER GUARDRAIL.



WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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San Diego, California 92101
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ELP@EstradaLandPlan.com

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM X LOW

SPEC. NO. 5606



PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 32 OF 41 SHEETS

APPROVED FOR CITY ENGINEER	DATE	6/18/13
DESCRIPTION	BY	APPROVED
ORIGINAL	ELP	

DATE	FILED

LOUIS SCHULTZ
PROJECT MANAGER

SABEEN COCHINWALA
PROJECT ENGINEER

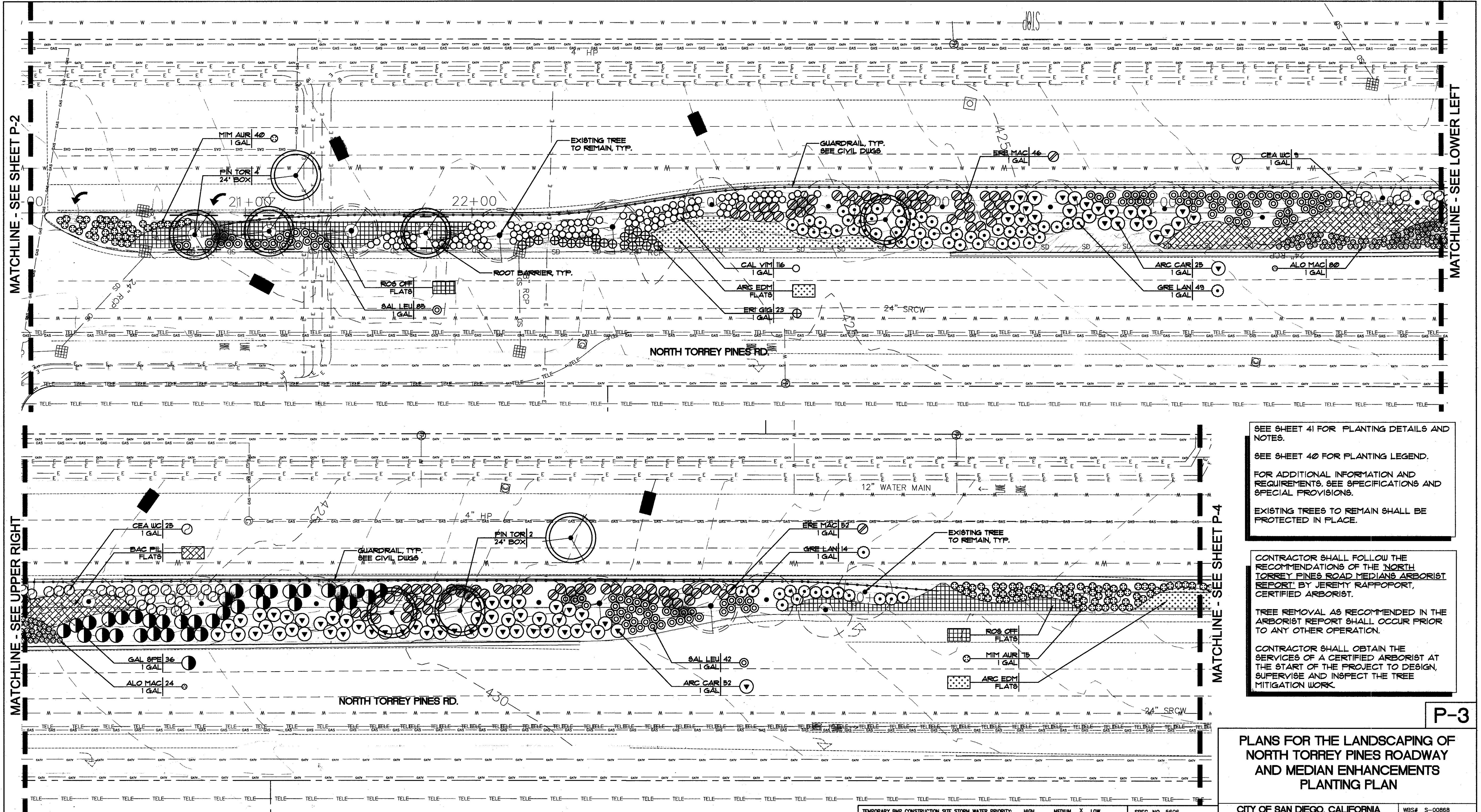
270-1695
CC827 COORDINATE

6256407-1906444
CC883 COORDINATE

CONTRACTOR _____ DATE STARTED _____

INSPECTOR _____ DATE COMPLETED _____

36665-32-D



MATCHLINE - SEE SHEET P-2

MATCHLINE - SEE LOWER LEFT

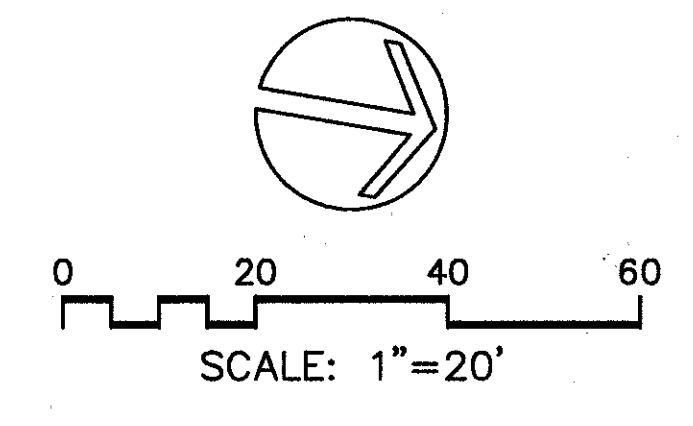
MATCHLINE - SEE UPPER RIGHT

MATCHLINE - SEE SHEET P-4

SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.
 SEE SHEET 40 FOR PLANTING LEGEND.
 FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.
 EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE.

CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE 'NORTH TORREY PINES ROAD MEDIANS ARBORIST REPORT' BY JEREMY RAPPOPORT, CERTIFIED ARBORIST.
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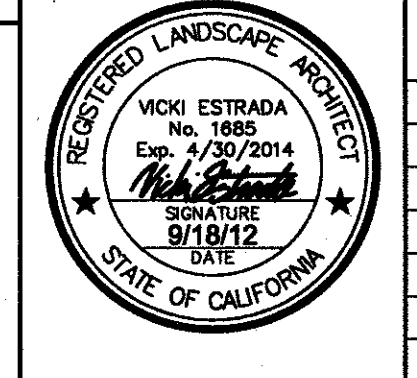
DO NOT PLACE NEW TREES WITHIN 2.5' OF STEEL BACKED TIMBER GUARDRAIL.



WARNING
 0 20 40 60
 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM X LOW SPEC. NO. 5606

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 225 Broadway, Suite 1160
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 619.236.0578 Fax
 ELP@EstradaLandPlan.com

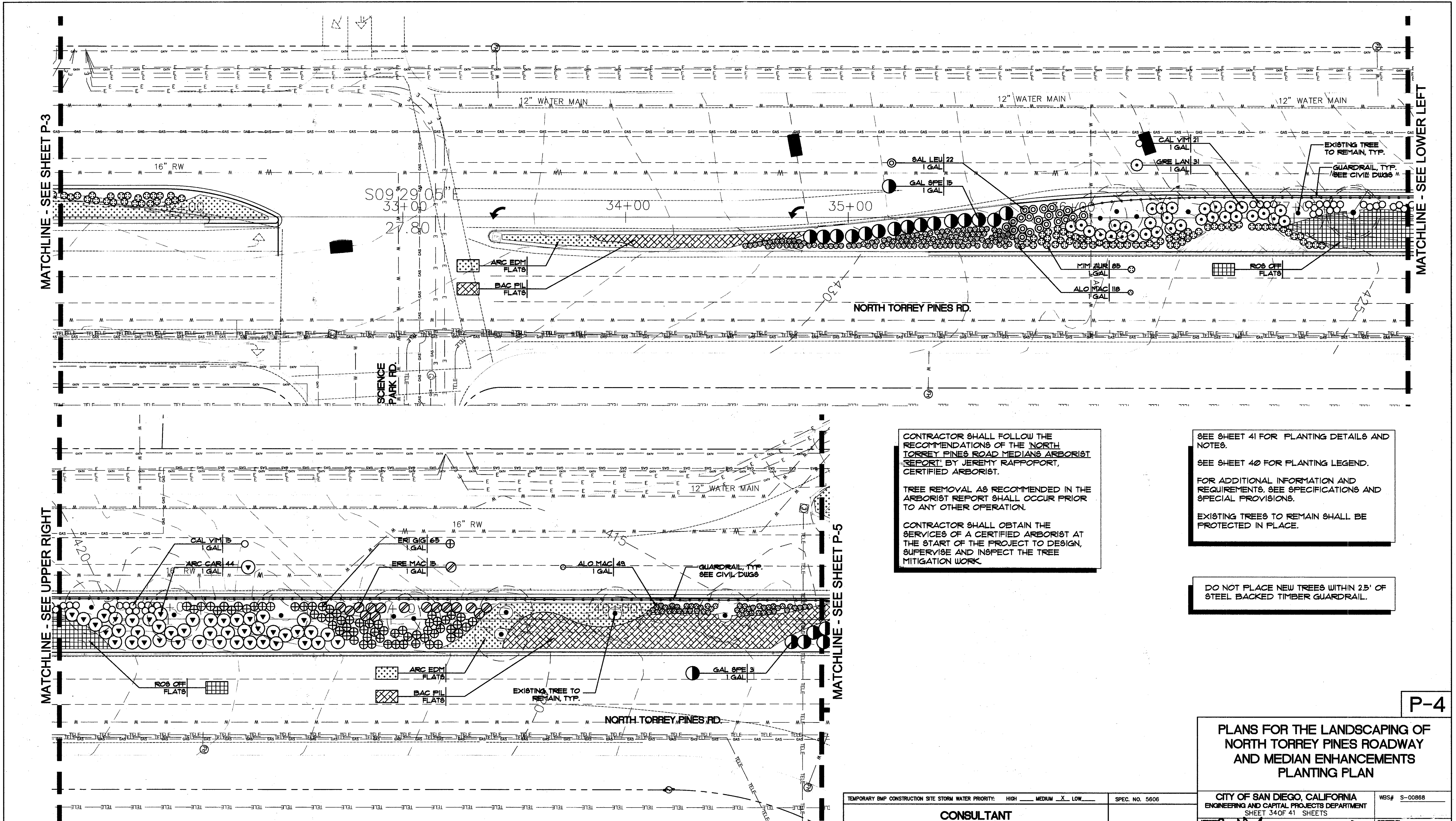


P-3

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 33 OF 41 SHEETS		WBS# S-00868
FOR CITY ENGINEER	DATE 6/11/13	DESIGNED BY LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION ORIGINAL	BY ELP	APPROVED DATE FILMED
		SABREEN COCHINWALA PROJECT ENGINEER
		270-1695 CC87 COORDINATE
		6256407-1906444 CC88 COORDINATE
CONTRACTOR	DATE STARTED	36665-33-D
INSPECTOR	DATE COMPLETED	

NORTH TORREY PINES



CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE NORTH TORREY PINES ROAD MEDIANS ARBORIST REPORT BY JEREMY RAFFOORT, CERTIFIED ARBORIST.

TREE REMOVAL AS RECOMMENDED IN THE ARBORIST REPORT SHALL OCCUR PRIOR TO ANY OTHER OPERATION.

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SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.

SEE SHEET 40 FOR PLANTING LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE.

DO NOT PLACE NEW TREES WITHIN 2.5' OF STEEL BACKED TIMBER GUARDRAIL.

P-4

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

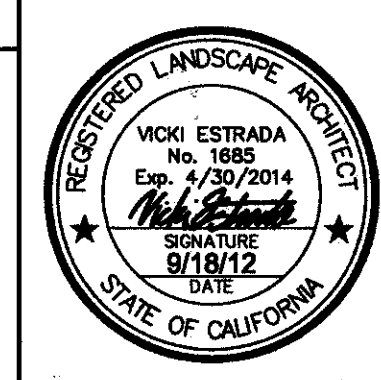
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 34 OF 41 SHEETS		WBS# S-00868
APPROVED BY <i>[Signature]</i> FOR CITY ENGINEER	DATE 6/11/13	DATE
DESCRIPTION ORIGINAL	BY ELP	APPROVED DATE FILMED
SUBMITTED BY LOUIS SCHULTZ PROJECT MANAGER		DATE
SABEEN COCHINWALA PROJECT ENGINEER		DATE
270-1695 C0827 COORDINATE		DATE
6256407-1906444 C0888 COORDINATE		DATE
CONTRACTOR	DATE STARTED	36665-34-D
INSPECTOR	DATE COMPLETED	

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM X LOW SPEC. NO. 5606

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Urban Design Landscape Architecture Computer Imaging

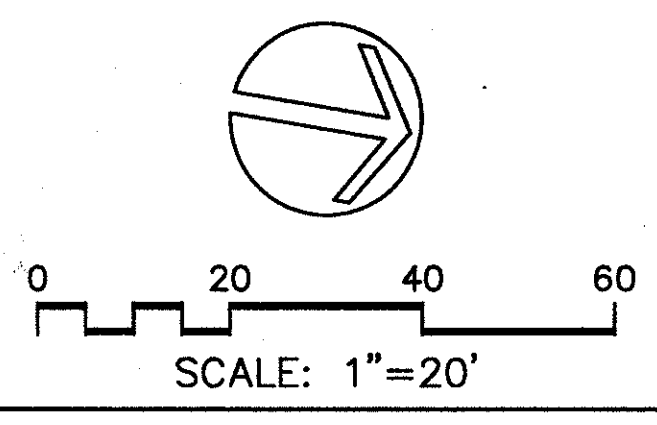
619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com



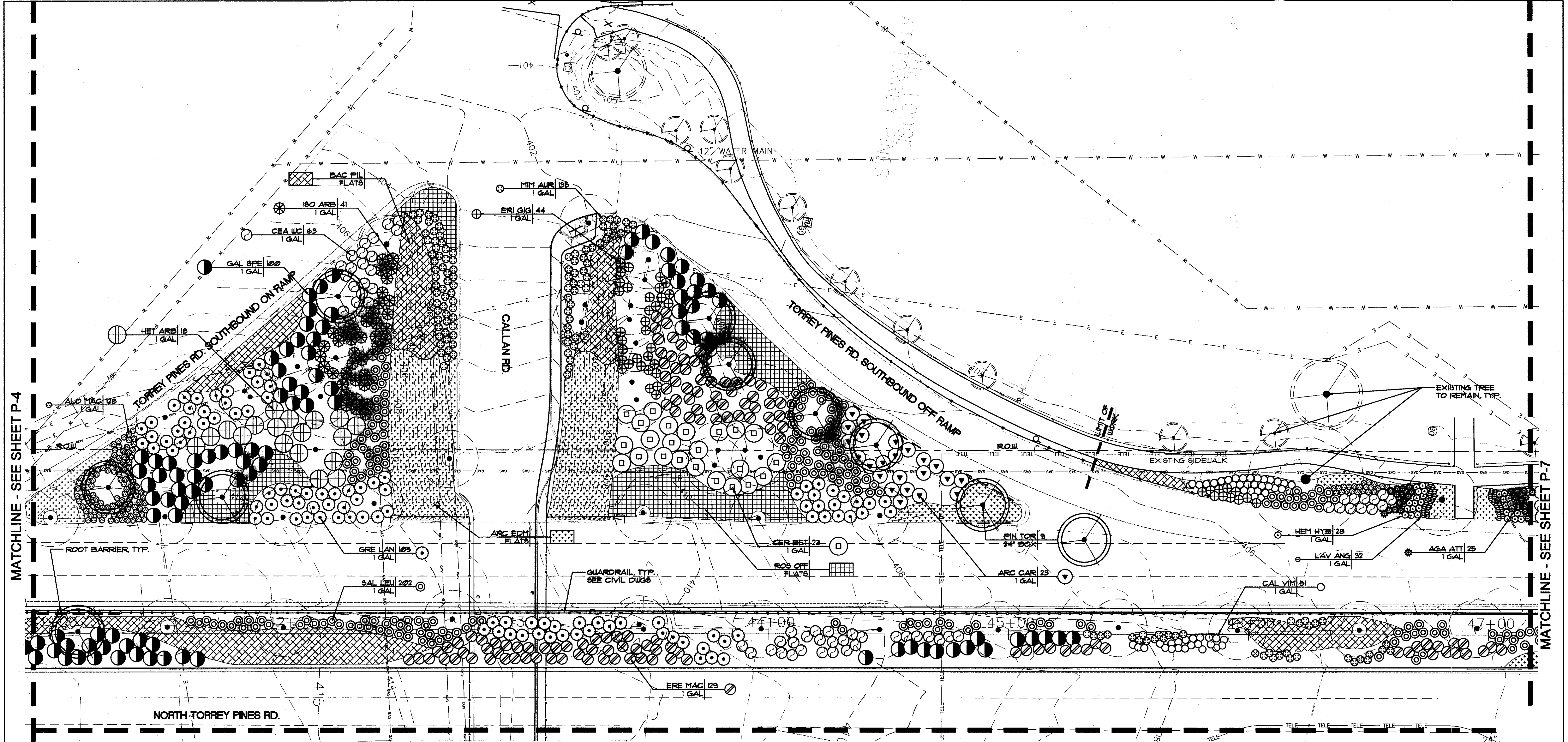
WARNING

0 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



NORTH TORREY PINES



MATCHLINE - SEE SHEET P-4

MATCHLINE - SEE SHEET P-7

MATCHLINE - SEE SHEET P-6

P-5

CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE NORTH TORREY PINES ROAD MEDIANS ARBORIST REPORT BY JEREMY RAFFOPORT, CERTIFIED ARBORIST.

TREE REMOVAL AS RECOMMENDED IN THE ARBORIST REPORT SHALL OCCUR PRIOR TO ANY OTHER OPERATION.

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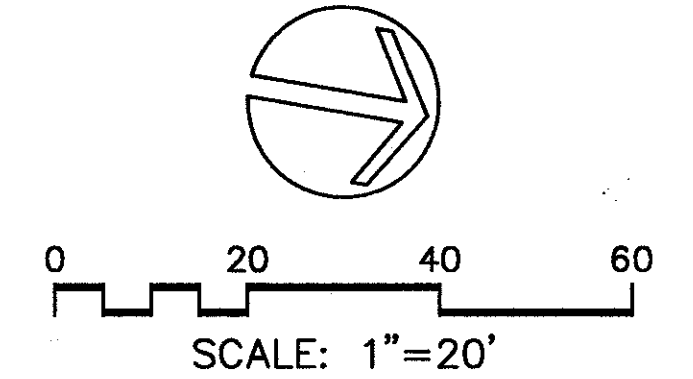
SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.

SEE SHEET 40 FOR PLANTING LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE.

DO NOT PLACE NEW TREES WITHIN 2.5' OF STEEL BACKED TIMBER GUARDRAIL.



WARNING

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____ SPEC. No. 5606

CONSULTANT

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Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com



PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 35 OF 41 SHEETS

APPROVED: *Brad Johnson* 6/11/13
FOR CITY ENGINEER DATE

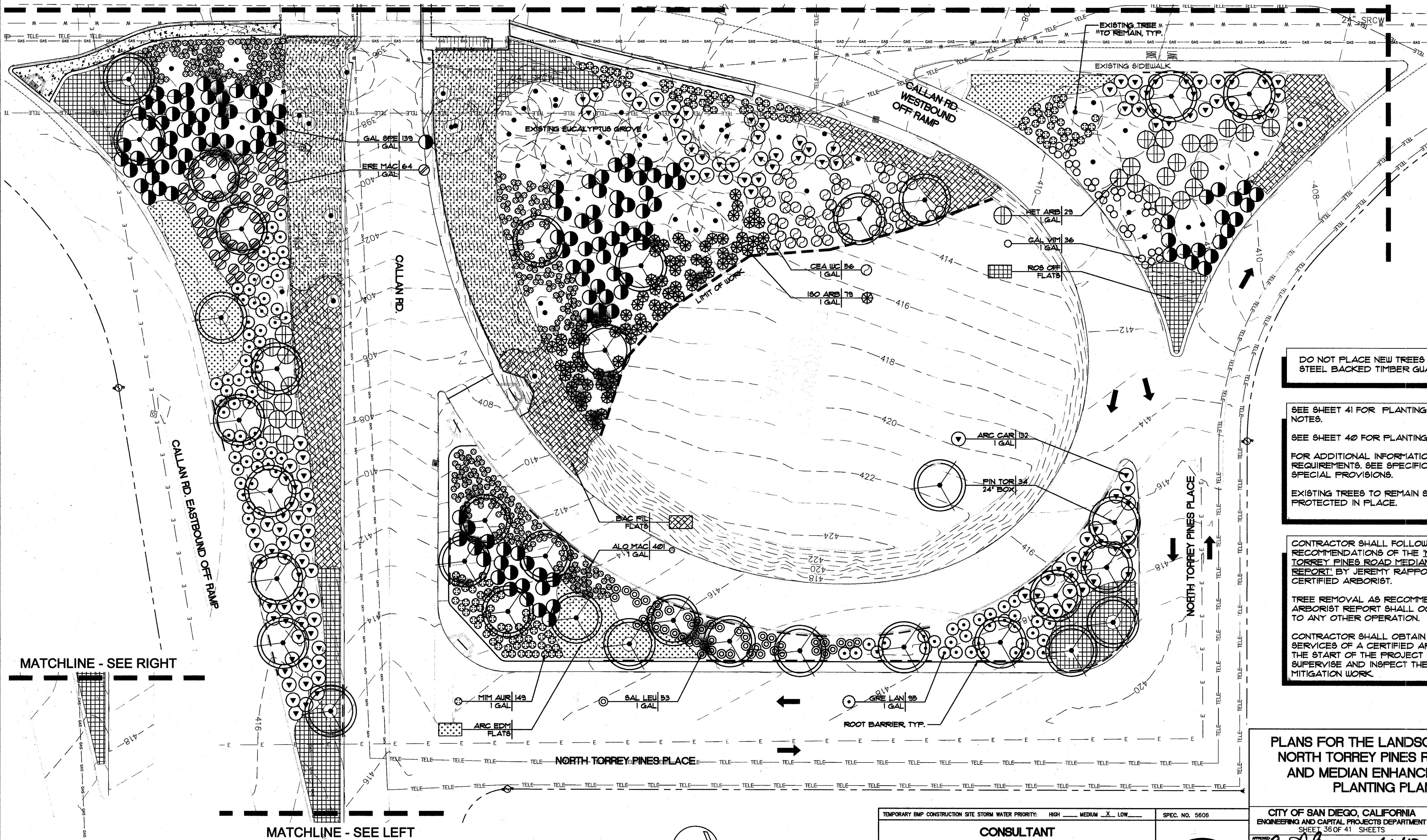
DESIGNED BY: LOUIS SCHULTZ PROJECT MANAGER
PROJECT ENGINEER: SABEEN COCHINWALA
270-1695
CC87 COORDINATE
6256407-1906444
CC88 COORDINATE
36665-35-D

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ELP			

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

NORTH TORREY PINES

MATCHLINE - SEE SHEET P-5



DO NOT PLACE NEW TREES WITHIN 2.5' OF STEEL BACKED TIMBER GUARDRAIL.

SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.

SEE SHEET 40 FOR PLANTING LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

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CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE 'NORTH TORREY PINES ROAD MEDIANS ARBORIST REPORT' BY JEREMY RAPPOPORT, CERTIFIED ARBORIST.

TREE REMOVAL AS RECOMMENDED IN THE ARBORIST REPORT SHALL OCCUR PRIOR TO ANY OTHER OPERATION.

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P-6

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 36 OF 41 SHEETS		WBS# S-00888
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 6/11/13	DESIGNED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: ELP	APPROVED: []
		DATE: []
		FILMED: []
		PROJECT ENGINEER: SABEEN COCHINWALA
		270-1695
		CC827 COORDINATE
		6256407-1910444
		CC883 COORDINATE
CONTRACTOR: []	DATE STARTED: []	36665-36-D
INSPECTOR: []	DATE COMPLETED: []	

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM X LOW SPEC. NO. 5606

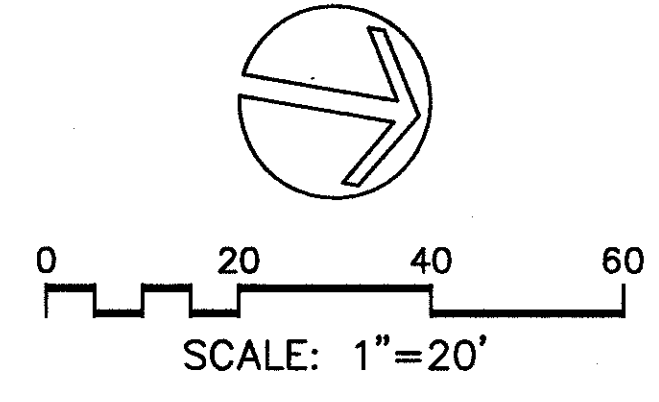
CONSULTANT

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Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

REGISTERED LANDSCAPE ARCHITECT
WIGO ESTRADA
No. 1686
Exp. 4/30/2014
9/18/12
STATE OF CALIFORNIA

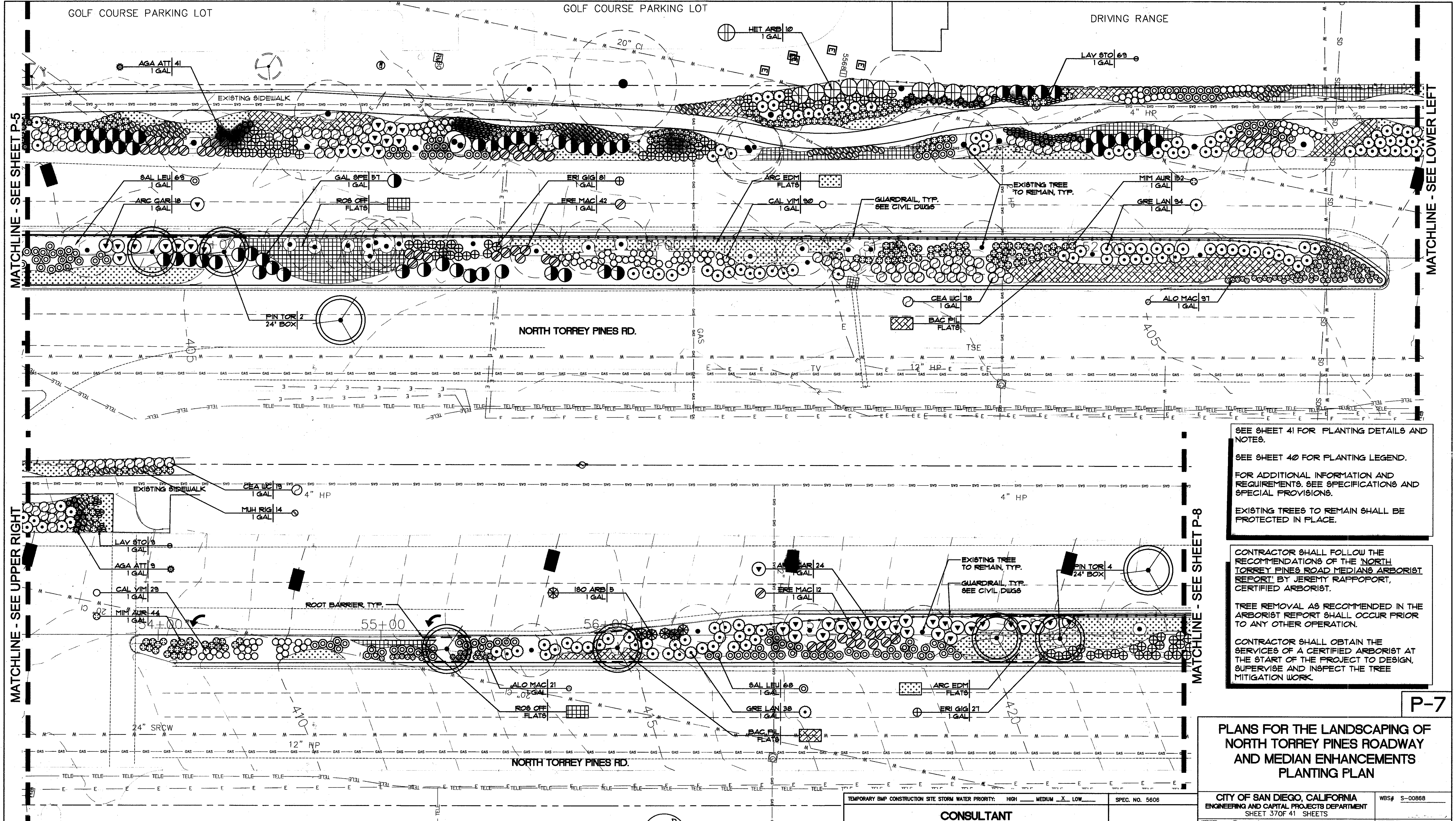
WARNING
0 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.



MATCHLINE - SEE RIGHT

MATCHLINE - SEE LEFT

NORTH TORREY PINES



MATCHLINE - SEE SHEET P-5

MATCHLINE - SEE LOWER LEFT

MATCHLINE - SEE UPPER RIGHT

MATCHLINE - SEE SHEET P-8

SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.
 SEE SHEET 40 FOR PLANTING LEGEND.
 FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.
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P-7

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 37 OF 41 SHEETS		WBS# S-00868
APPROVED FOR CITY ENGINEER <i>Don Johnson</i> DATE 6/11/12	DESIGNED BY LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION ORIGINAL	BY ELP	APPROVED DATE FILMED
	SABEEN COCHINWALA PROJECT ENGINEER	
	270-1695 CORSY COORDINATE	
	6256407-1910444 CORSY COORDINATE	
CONTRACTOR	DATE STARTED	36665-37-D
INSPECTOR	DATE COMPLETED	

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM X LOW SPEC. NO. 5608

CONSULTANT

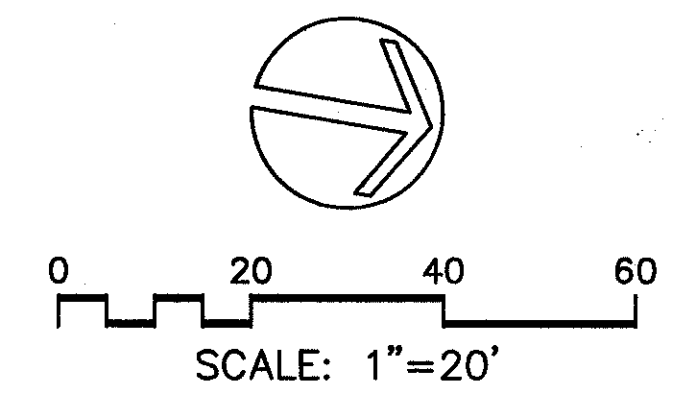
Estrada Land Planning
Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

ESTRADA

REGISTERED LANDSCAPE ARCHITECT
WCKI ESTRADA
No. 10695
Exp. 4/30/2014
9/18/12
DATE

DO NOT PLACE NEW TREES WITHIN 25' OF STEEL BACKED TIMBER GUARDRAIL.



WARNING

0 20 40 60

SCALE: 1"=20'

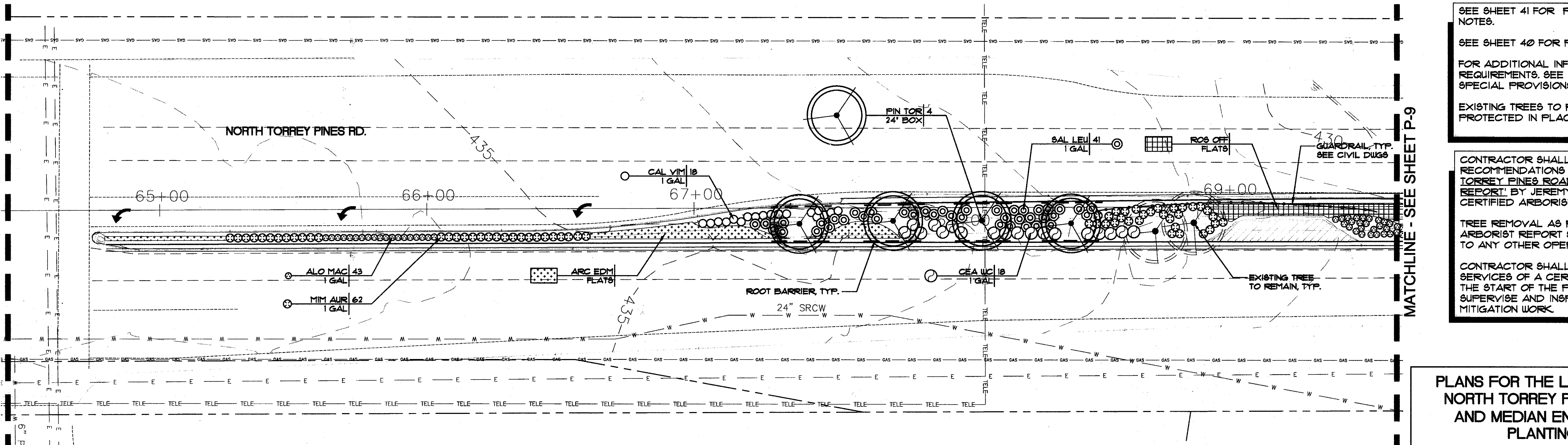
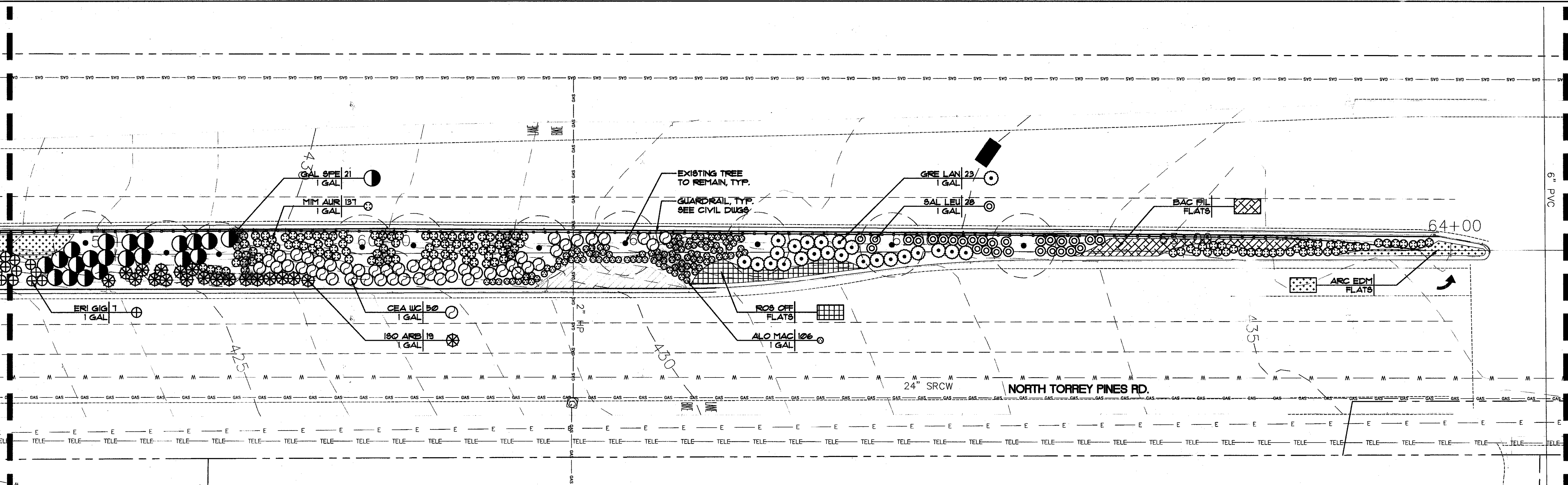
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

NORTH TORREY PINES

MATCHLINE - SEE SHEET P-7

MATCHLINE - SEE UPPER RIGHT

MATCHLINE - SEE LOWER LEFT



SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.
 SEE SHEET 40 FOR PLANTING LEGEND.
 FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.
 EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE.

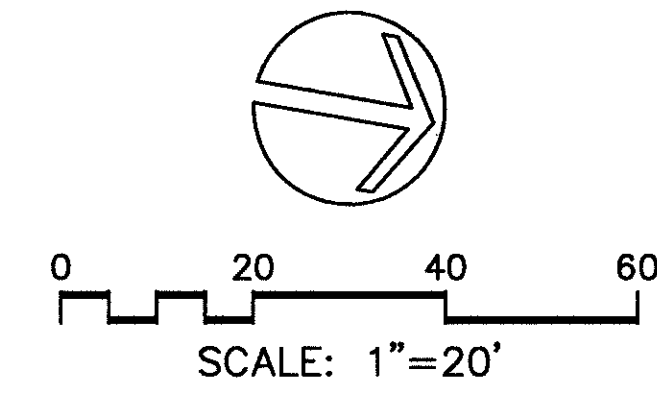
CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE NORTH TORREY PINES ROAD MEDIANS ARBORIST REPORT BY JEREMY RAPPOPORT, CERTIFIED ARBORIST.
 TREE REMOVAL AS RECOMMENDED IN THE ARBORIST REPORT SHALL OCCUR PRIOR TO ANY OTHER OPERATION.
 CONTRACTOR SHALL OBTAIN THE SERVICES OF A CERTIFIED ARBORIST AT THE START OF THE PROJECT TO DESIGN, SUPERVISE AND INSPECT THE TREE MITIGATION WORK.

P-8

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 38 OF 41 SHEETS		WBS# 5-00868
APPROVED BY <i>Brad Johnson</i> FOR CITY ENGINEER	DATE 6/11/13	DESIGNED BY LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION ORIGINAL	BY ELP	APPROVED BY SABEEN COCHINWALA PROJECT ENGINEER
	DATE	DATE
		270-1695 CC87 COORDINATE
		6256407-1910444 CC88 COORDINATE
CONTRACTOR	DATE STARTED	36665-38-D
INSPECTOR	DATE COMPLETED	

DO NOT PLACE NEW TREES WITHIN 25' OF STEEL BACKED TIMBER GUARDRAIL.



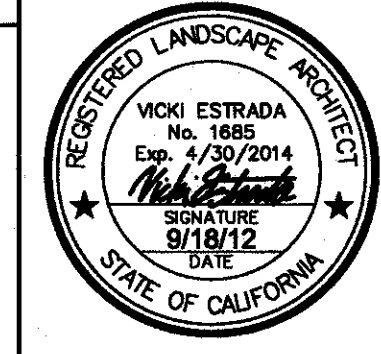
WARNING
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 IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH MEDIUM LOW SPEC. NO. 5606

CONSULTANT

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 Urban Design Landscape Architecture Computer Imaging

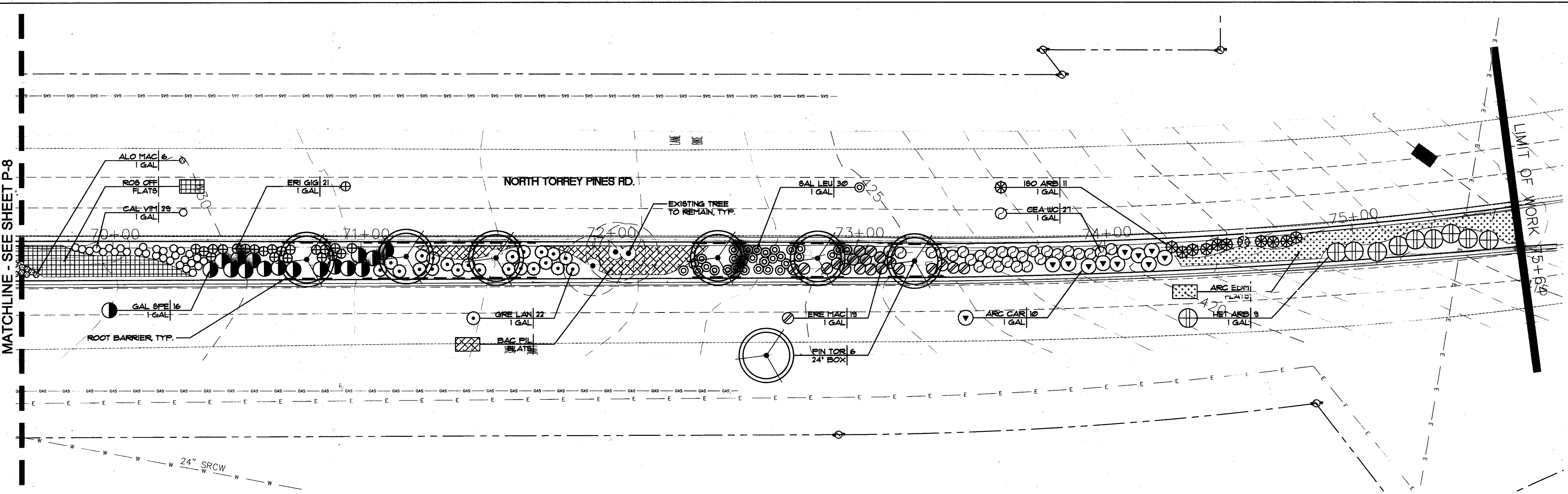
619.238.0143
 225 Broadway, Suite 1160
 San Diego, California 92101
 619.238.0578 Fax
 ELP@EstradaLandPlan.com



NORTH TORREY PINES

MATCHLINE - SEE SHEET P-8

LIMIT OF WORK 5+60



CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE NORTH TORREY PINES ROAD MEDIANS ARBORIST REPORT BY JEREMY RAPPOPORT, CERTIFIED ARBORIST.

TREE REMOVAL AS RECOMMENDED IN THE ARBORIST REPORT SHALL OCCUR PRIOR TO ANY OTHER OPERATION.

CONTRACTOR SHALL OBTAIN THE SERVICES OF A CERTIFIED ARBORIST AT THE START OF THE PROJECT TO DESIGN, SUPERVISE AND INSPECT THE TREE MITIGATION WORK.

SEE SHEET 41 FOR PLANTING DETAILS AND NOTES.

SEE SHEET 40 FOR PLANTING LEGEND.

FOR ADDITIONAL INFORMATION AND REQUIREMENTS, SEE SPECIFICATIONS AND SPECIAL PROVISIONS.

EXISTING TREES TO REMAIN SHALL BE PROTECTED IN PLACE.

DO NOT PLACE NEW TREES WITHIN 25' OF STEEL BACKED TIMBER GUARDRAIL.

P-9

PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING PLAN

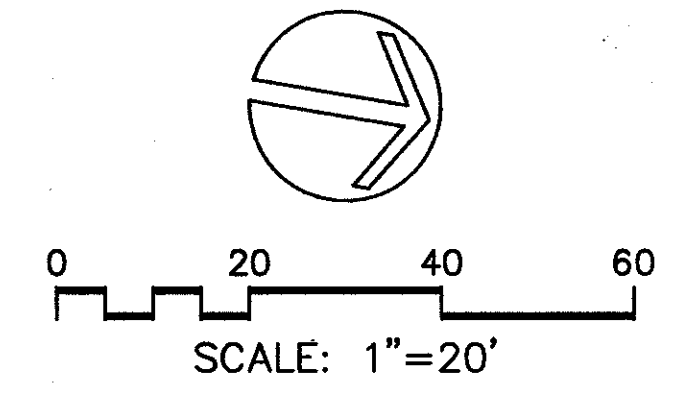
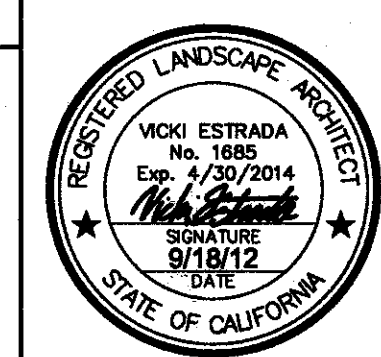
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 39 OF 41 SHEETS		WBS# S-00868
APPROVED BY <i>[Signature]</i> FOR CITY ENGINEER	DATE 6/11/13	DESIGNED BY LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION ORIGINAL	BY ELP	DATE FILMED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED
6256407-1910444 CC883 COORDINATE		36665-39-D

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____ SPEC. NO. 5606

CONSULTANT

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Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com



WARNING

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NORTH TORREY PINES

TREE LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	ABBREV.	SIZE	COMMENTS	HT. X SP.	DETAIL
	PINUS TORREYANA	TORREY PINE	PIN TOR	24" BOX	FULL, VIGOROUS, STANDARD FORM	9' x 6'	8DL-101
	EXISTING EUCALYPTUS CLADOCALYX	SUGAR GUM	EUC CLA				
	EXISTING PINUS TORREYANA	TORREY PINE	PIN TOR				

SHRUB LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	ABBREV.	SIZE	COMMENTS	OFFSET SPACING FROM EDGES	HT. X SP.	DETAIL
	AGAVE ATTENUATA	FOXTAIL AGAVE	AGA ATT	1 GAL.	FULL, VIGOROUS	1'	1' x 1'	8DL-102
	ALOE MACULATA	SOAP ALOE	ALO MAC	1 GAL.	FULL, VIGOROUS	6'	6' x 6'	8DL-102
	ARCTOSTAPHYLOS EDMUNDSII 'CARMEL SUR'	CARMEL SUR MANZANITA	ARC CAR	1 GAL.	FULL, VIGOROUS	3'	1' x 3'	8DL-102
	CALLISTEMON VIMINALIS 'LITTLE JOHN'	DWARF BOTTLEBRUSH	CAL VIM	1 GAL.	FULL, VIGOROUS	10'	10' x 10'	8DL-102
	CEANOTHUS 'WHEELER CANYON'	WILD LILAC	CEA WC	1 GAL.	FULL, VIGOROUS	2'	2' x 2'	8DL-102
	CERCOCARFUS BETULOIDES	MOUNTAIN MAHOGANY	CER BET	1 GAL.	FULL, VIGOROUS	1'	2' x 1'	8DL-102
	EREMOPHILA MACULATA	SPOTTED EMU BUSH	ERE MAC	1 GAL.	FULL, VIGOROUS	2'	2' x 2'	8DL-102
	ERIOGONUM GIGANTEUM	ST. CATHERINES LACE	ERI GIG	1 GAL.	FULL, VIGOROUS	2'	2' x 2'	8DL-102
	GALVEZIA SPECIOSA	ISLAND BUSH SNÁPDRAGON	GAL SPE	1 GAL.	FULL, VIGOROUS	10'	10' x 10'	8DL-102
	GREVILLEA LANIGERA	WOOLLY GREVILLEA	GRE LAN	1 GAL.	FULL, VIGOROUS	1'	1' x 1'	8DL-102
	HEMEROCALLIS HYBRIDS	DAYLILY	HEM HYB	1 GAL.	FULL, VIGOROUS	2'	2' x 2'	8DL-102
	HETEROMELES ARBUTIFOLIA	TOYON	HET ARB	1 GAL.	FULL, VIGOROUS	2'	2' x 2'	8DL-102
	ISOMERIS ARBOREA	BLADDERPOD	ISO ARB	1 GAL.	FULL, VIGOROUS	1'	1' x 1'	8DL-102
	LAVANDULA ANGSTIFOLIA	ENGLISH LAVANDER	LAV ANG	1 GAL.	FULL, VIGOROUS	2'	2' x 2'	8DL-102
	LAVANDULA STOECHAS	SPANISH LAVANDER	LAV STO	1 GAL.	FULL, VIGOROUS	0'	0' x 0'	8DL-102
	MIMULUS AURANTIACUS	STICKY MONKEYFLOWER	MIM AUR	1 GAL.	FULL, VIGOROUS	10'	10' x 10'	8DL-102
	MUHLENBERGIA RIGENS	DEER GRASS	MUH RIG	1 GAL.	FULL, VIGOROUS	1'	1' x 1'	8DL-102
	SALVIA LEUCOPHYLLA	PURPLE SAGE	SAL LEU	1 GAL.	FULL, VIGOROUS	2'	2' x 2'	8DL-102

GROUND COVER LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	ABBREV.	SIZE	COMMENTS	HT. X SP.	DETAIL
	BACCHARIS PILULARIS 'PIGEON POINT'	DWARF COYOTE BRUSH	BAC PIL	FLATS	FULL, VIGOROUS	24' O.C.	8DL-102 A / P-II
	ARCTOSTAPHYLOS EDMUNDSII	LITTLE SUR MANZANITA	ARC EDM	FLATS	FULL, VIGOROUS	30' O.C.	8DL-102 A / P-II
	ROSMARINUS OFFICINALIS 'PROSTRATUS'	TRAILING ROSEMARY	ROS OFF	FLATS	FULL, VIGOROUS	24' O.C.	8DL-102 A / P-II

CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER/MODEL	DETAIL REFERENCE
	PROVIDE AND INSTALL ROOT BARRIERS WHERE INDICATED ON PLAN	ND8 OR EQUAL SHOUTOWN 'EP', 24' DEEP	B / P-II SEE SPECIFICATIONS

PLANTING NOTES

- ALL LANDSCAPING SHALL BE DONE IN ACCORDANCE WITH THE GENERAL PROVISIONS AND THE APPLICABLE PARTS OF SECTIONS 212 AND 308 OF THE CITY OF SAN DIEGO STANDARD SPECIFICATIONS "GREENBOOK" AND "WHITEBOOK", DRAWINGS L-1 TO SDC-101, AS WELL AS THE FOLLOWING:
1. THE PLANTING PLANS ARE DIAGRAMMATIC. MINOR ADJUSTMENTS IN PLANT LOCATIONS AND TYPE MAY BE MADE AT THE DISCRETION OF THE RESIDENT ENGINEER.
 2. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OTHER TRADES AND MAINTAIN DRAINAGE DURING CONSTRUCTION.
 3. PLANT QUANTITIES AND AREAS SHOWN ON LEGENDS ARE FOR CONTRACTOR'S CONVENIENCE IN ESTIMATING ONLY. CONTRACTOR IS RESPONSIBLE FOR PROVIDING PLANT MATERIALS TO COVER ALL AREAS SHOWN ON PLANS.
 4. DO NOT DAMAGE PLANT ROOTBALL DURING TRANSPORTATION OR PLANTING PROCESS.
 5. ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE RESIDENT ENGINEER AND REPLACED UPON REQUEST BEFORE OR AFTER PLANTING.
 6. RESIDENT ENGINEER SHALL APPROVE FINAL PLACEMENT OF ALL TREES AND SHRUBS PRIOR TO PLANTING.
 7. ALL PLANTS PLANTED FROM CONTAINERS SHALL HAVE THEIR ROOTBALLS SCORED WITH A SHARP TOOL TO A DEPTH OF ONE HALF INCH IN THREE LONGITUDINAL INCISIONS AT LOCATIONS SPACED AROUND THE ROOTBALL BEFORE PLACING PLANT IN HOLE.
 8. ALL TREES SHALL BE ERECTED IN A VERTICAL MANNER AND HAVE SUFFICIENT TIE-DOWNS TO ASSURE THEIR VERTICALITY DURING THE LIFE OF THE CONTRACT AND MAINTENANCE PERIOD.
 9. ALL TREES SHALL BE ERECTED IN A VERTICAL MANNER AND HAVE SUFFICIENT TIE-DOWNS TO ASSURE THEIR VERTICALITY DURING THE LIFE OF THE CONTRACT AND MAINTENANCE PERIOD.
 10. ALL TYING MATERIAL AND MARKING TAPES SHALL BE REMOVED AT THE TIME OF PLANTING. NURSERY STAKES SHALL BE REMOVED AND HOLES BACKFILLED WITH BACKFILL MIX SOIL, PER SPECIFICATIONS.

P-10

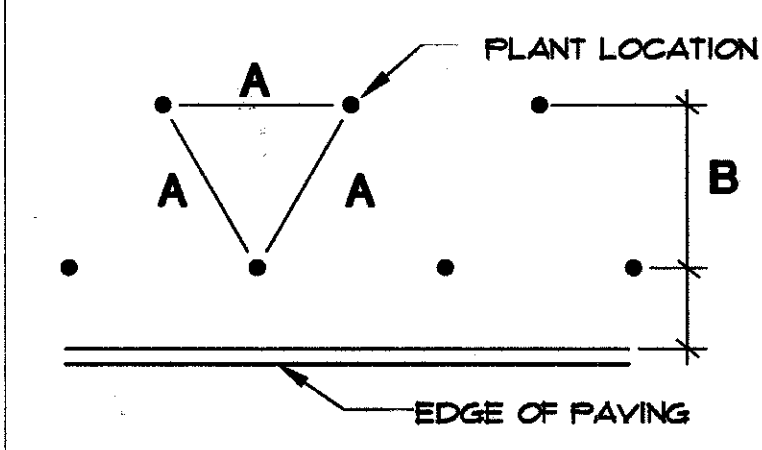
PLANS FOR THE LANDSCAPING OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENTS PLANTING LEGEND

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM _____ X _____ LOW _____		SPEC. NO. 5606	
CONSULTANT			
 Estrada Land Planning Urban Design Landscape Architecture Computer Imaging 619.236.0143 225 Broadway, Suite 1160 San Diego, California 92101 619.236.0578 Fax ELP@EstradaLandPlan.com			
WARNING IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.		CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET 40 OF 41 SHEETS WBS# S-00868 APPROVED BY: FOR CITY ENGINEER: LOUIS SCHULTZ PROJECT MANAGER DATE: 6/11/13 DESCRIPTION: ORIGINAL BY: ELP APPROVED: _____ DATE: _____ FILMED: _____ CONTRACTOR: _____ INSPECTOR: _____ DATE STARTED: _____ DATE COMPLETED: _____ CC87 COORDINATE CC88 COORDINATE 36665-40-D	

NORTH TORREY PINES

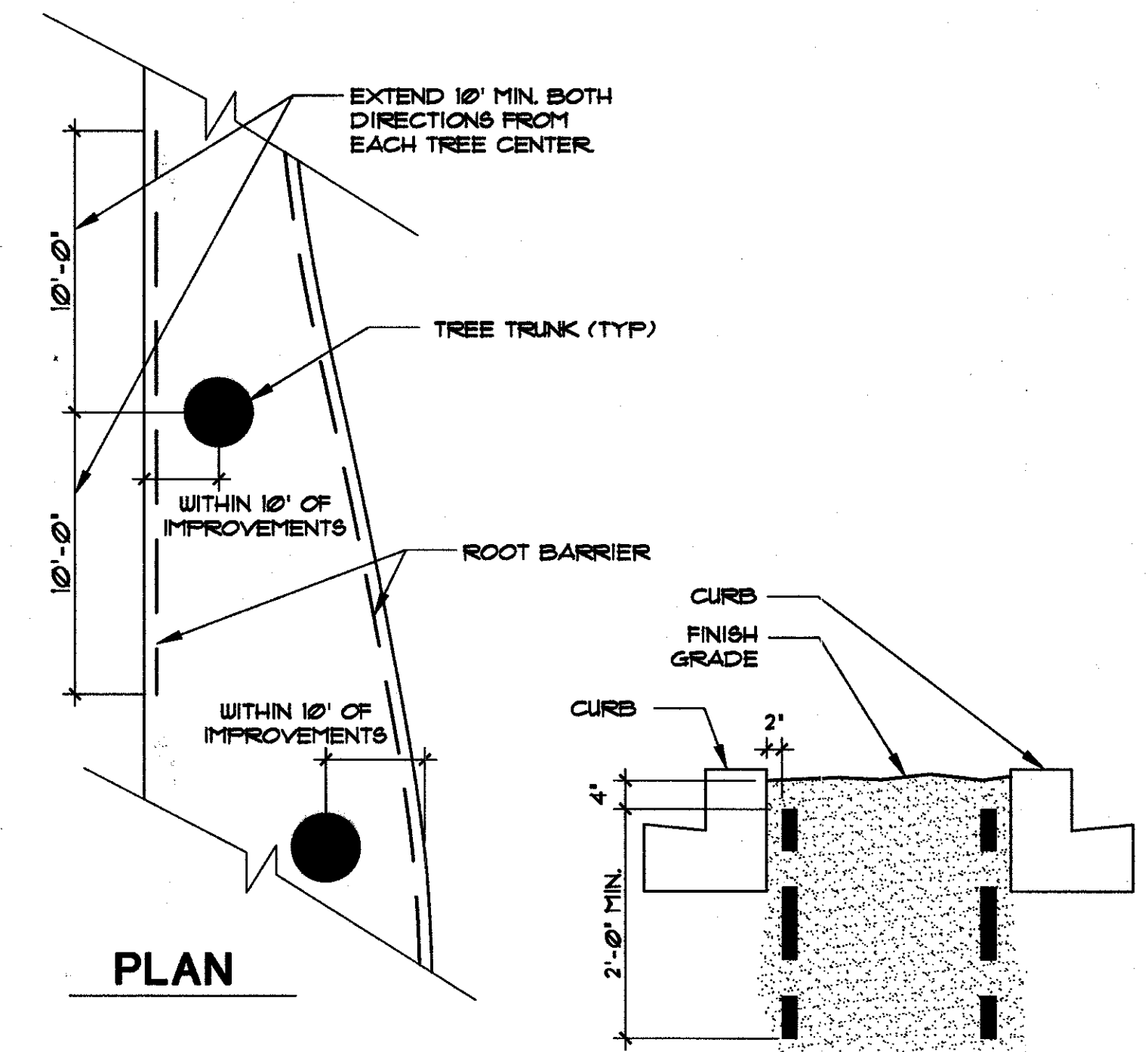
NOTE:
SEE PLANT LEGEND FOR
MAXIMUM TRIANGULAR
SPACING 'A' THIS CHART
IS TO BE USED TO
DETERMINE THE NUMBER
OF GROUND COVER
PLANTS REQUIRED IN A
GIVEN AREA.

SPACING 'A'	SPACING 'B'	NO. OF PLANTS/SQ. FT.
6' O.C.	5.20'	4.60
8' O.C.	6.93'	2.60
9' O.C.	7.79'	1.78
10' O.C.	8.66'	1.66
12' O.C.	10.40'	1.15
15' O.C.	13.00'	0.738
18' O.C.	15.60'	0.512
24' O.C.	20.80'	0.290
30' O.C.	26.00'	0.185
36' O.C.	30.00'	0.116



NOTE:
FOR USE WHEN PLANTS ARE
SPACED EQUIDISTANT FROM
EACH OTHER AS IN ALL
GROUND COVER PLANTINGS AND
MASSSED SHRUB PLANTINGS.
SHRUBS SHALL BE SET BACK FROM PAVING AT
A DISTANCE OF 2/3 OF 'A' SPACING INDICATED
IN CHART OR PER 'OFFSET SPACING' INDICATED
ON LEGEND.

A SHRUB/GROUND COVER SPACING NOT TO SCALE



NOTE:
CONTACT MANUFACTURER FOR MANUFACTURERS
RECOMMENDED INSTALLATION.

B ROOT BARRIER INSTALLATION NOT TO SCALE

P-11

PLANS FOR THE LANDSCAPING OF
NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENTS
PLANTING DETAILS

TEMPORARY BMP CONSTRUCTION SITE STORM WATER PRIORITY: HIGH _____ MEDIUM X LOW _____ SPEC. NO. 5606

CONSULTANT

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Urban Design Landscape Architecture Computer Imaging

619.236.0143
225 Broadway, Suite 1160
San Diego, California 92101
619.236.0578 Fax
ELP@EstradaLandPlan.com

ESTRADA

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET 41 OF 41 SHEETS

WBS# S-00868

APPROVED BY: *[Signature]* 6/11/13
FOR CITY ENGINEER DATE

DESIGNED BY: LOUIS SCHULTZ
PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	ELP			

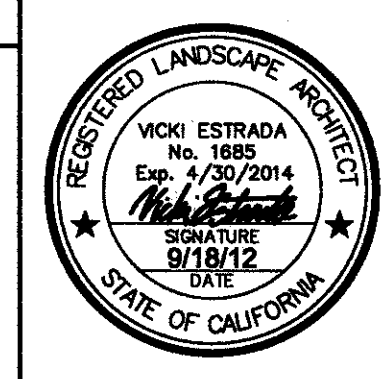
SIGNED BY: SABEEN COCHINWALA
PROJECT ENGINEER

CC887 COORDINATE

CONTRACTOR _____ DATE STARTED _____
INSPECTOR _____ DATE COMPLETED _____

36665-41-D

WARNING
IF THIS BAR DOES
NOT MEASURE 1"
THEN DRAWING IS
NOT TO SCALE.



NORTH TORREY PINES

STANDARD TRAFFIC CONTROL NOTES

- VALIDATION:** THIS TRAFFIC CONTROL PLAN IS NOT VALID UNTIL WORK DATES ARE APPROVED. THE CONTRACTOR SHALL, PER SECTION 7-10.1.3 OF THE CONTRACT SPECIAL PROVISIONS, 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:** THIS TRAFFIC CONTROL PLAN SHALL CONFORM TO THE MOST RECENTLY 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.

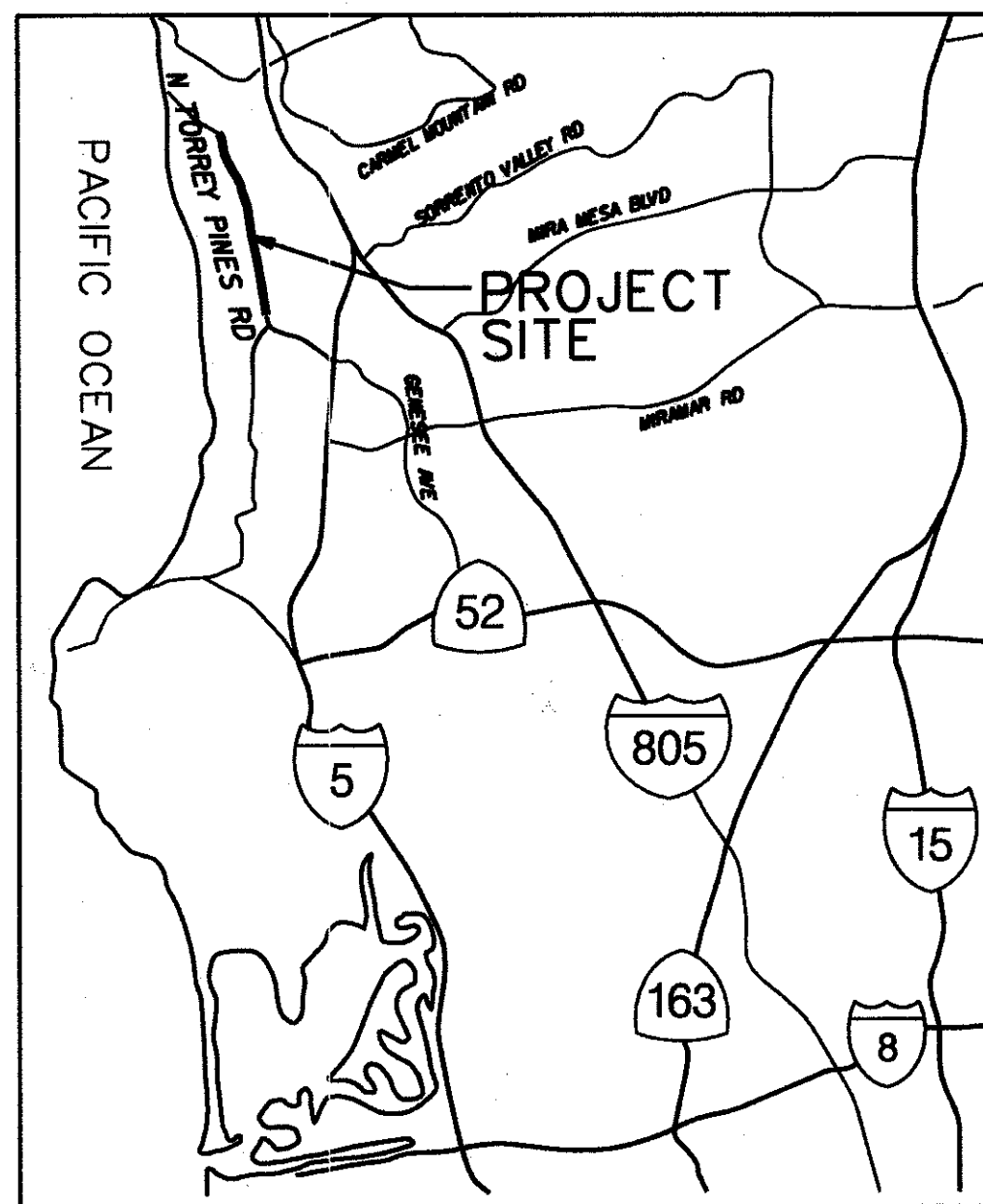
FIRE DEPARTMENT DISPATCH	(STREET OR ALLEY CLOSURE)	(858) 573-1300
POLICE DEPARTMENT TRAFFIC	(STREET OR ALLEY CLOSURE)	(858) 495-7800
WASTE MANAGEMENT DEPT.	(REFUSE COLLECTION)	(858) 694-7000
STREET DIVISION/ELECTRICAL	(TRAFFIC SIGNALS)	(619) 527-7500
SAN DIEGO TRANSIT	(BUS STOPS)	(619) 595-7038
MTDB	(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 SIGN NOTIFYING THE PUBLIC A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO CLOSURE OF STREETS.

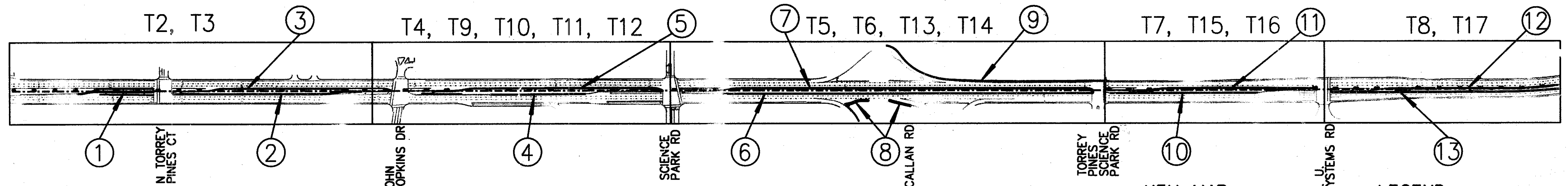
- POSTING NO PARKING SIGNS:** THE CONTRACTOR SHALL POST "TOW-AWAY/NO PARKING" SIGNS TWENTY-FOUR (24) HOURS IN ADVANCE FOR TEMPORARY PARKING REMOVAL. SIGNS SHALL INDICATE SPECIFIC DAYS, DATES, AND TIMES OF RESTRICTIONS.
- EXCAVATIONS:** EXCEPT AS SHOWN ON THE PLANS, TRENCHES SHALL BE BACKFILLED OR TRENCH-PLATED 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 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.
- FOR WORK NOT COVERED BY THESE TRAFFIC CONTROL PLANS,** THE CONTRACTOR SHALL, PER SECTION 7-10.1.1 OF THE CONTRACT SPECIAL PROVISIONS, PREPARE TRAFFIC CONTROL SHOP DRAWINGS AND SUBMIT THEM TO THE RESIDENT ENGINEER. 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 FOR THIS WORK.

GENERAL NOTES

- ALL SIGNS USED FOR NIGHT WORK SHALL BE CONSTRUCTED WITH 3M HIGH INTENSITY REFLECTIVE SHEETING OR APPROVED EQUAL. FOR HOURS OF DARKNESS, CHANGE CONES TO VERTICAL BARRICADES WITH STEADY BURN LIGHTS.
- ON ALL ROADWAYS WITH GRADES GREATER THAN 8%, THE CONTRACTOR SHALL SPIKE THE TRENCH PLATES TO SECURE THEM IN PLACE.
- CONTRACTOR SHALL PROVIDE A RECORD OF PROPERTY OWNERS CONTACTED REGARDING THIS CONSTRUCTION. CONTRACTOR WILL PROVIDE AND DISTRIBUTE "DOOR HANGER" TYPE FLYERS TO ALL PROPERTY OWNERS AFFECTED BY CONSTRUCTION A MINIMUM OF 5 DAYS PRIOR TO WORK OCCURING.
- ALL STREET CLOSURES TO BE SIGNED WITH ADVANCE CLOSURE NOTICE TWO WEEKS PRIOR TO CONSTRUCTION.
- TEMPORARY NO PARKING SIGNS WILL BE POSTED EVERY 25' THRU WORK AREA.
- EACH PHASE OF TRAFFIC CONTROL THAT INCLUDES NEW CONC WORK SHALL BE A 24/7, SETUP UNTIL ALL CONC WORK IN THE SPECIFIC PHASE HAS CURED FOR 7 DAYS.



VICINITY MAP
NOT TO SCALE



TRAFFIC STRIPING, PAVEMENT MARKINGS AND PAVEMENT MARKERS

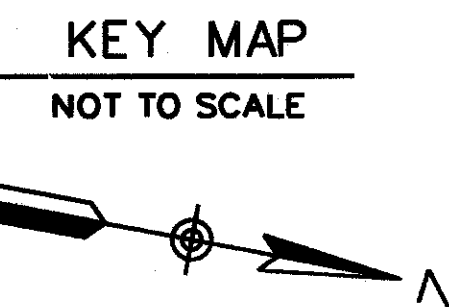
- ALL STRIPING AND INSTALLATION OF ALL PAVEMENT MARKERS AND SIGNS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PAVEMENT MARKERS AND STRIPING SHALL CONFORM TO SECTION 84 AND SECTION 85 OF THE LATEST CALTRANS TRAFFIC CONTROL MANUAL.
- CONTROL OF ALIGNMENT AND LAYOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND IS SUBJECT TO APPROVAL BY THE TRAFFIC ENGINEER.
- SECTION 84-03.02, "MATERIALS," OF THE STANDARD SPECIFICATION, IS AMENDED TO READ:
 PAINT FOR TRAFFIC STRIPES SHALL CONFORM TO THE FOLLOWING STATE SPECIFICATIONS:
PAINT
 RAPID DRY WATER-BORNE, WHITE AND YELLOW
 GLASS BEADS SHALL CONFORM TO STATE SPECIFICATION NO. 8010-51J-22 (TYPE II)
 COPIES OF STATE SPECIFICATIONS FOR TRAFFIC PAINT AND GLASS BEADS MAY BE OBTAINED FROM THE TRANSPORTATION LABORATORY, P.O. BOX 19128, SACRAMENTO, CA 95819, (619) 739-2400.
- THINNING OF PAINT WILL NOT BE ALLOWED.
- THE CONTRACTOR SHALL INSTALL REFLECTORIZED PAVEMENT MARKERS ON ALL LANE LINES AND CENTERLINE STRIPING.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SANDBLASTING OF CONFLICTING STRIPING AND REPLACING ALL STRIPING AND PAVEMENT MARKING REMOVED DUE TO CONSTRUCTION.
- THE INSTALLATION OF ALL SIGNS WILL BE DONE BY THE CONTRACTOR. ALL SIGNS MUST CONFORM TO THE CALIFORNIA DEPARTMENT OF TRANSPORTATION TRAFFIC MANUAL. ALL SIGN POSTS MUST BE ANCHORED TWO FEET IN CONCRETE AND 18-24 INCHES FROM FACE OF CURB. THE BOTTOM OF SIGNS MUST BE SEVEN (7) FEET FROM THE GROUND.
- CONTRACTOR SHALL NOTIFY TRAFFIC ENGINEER AT (858) 495-4741 UPON COMPLETION OF STRIPING AND SIGNING.

SIGN LEGEND

END CONSTRUCTION G20-2	ROAD CONSTRUCTION AHEAD W20-1	DETOUR AHEAD W20-2	RIGHT LANE CLOSED AHEAD W20-5R	LEFT LANE CLOSED AHEAD W20-5L	BIKE LANE CLOSED AHEAD W20-5 (MOD)	NARROW LANE C12 (CA)	ROAD WORK SPEED LIMIT 40 C17	RAMP CLOSED AHEAD R19 (CA)	LANE CLOSED C30 (CA)	END BIKE LANE B3
SHARE THE ROAD W16-1	RIGHT TURN ONLY R3-1	LEFT TURN ONLY R3-2	RIGHT TURN ONLY R3-4	RIGHT TURN ONLY R3-5R	RIGHT TURN ONLY R3-6	RIGHT LANE MUST TURN RIGHT R3-7R	LEFT LANE MUST TURN LEFT R3-7L	KEEP RIGHT R4-7a	LEFT ON GREEN ARROW ONLY R10-5	SIDEWALK CLOSED R9-9
ROAD CLOSED R11-2	ROAD CLOSED TO THRU TRAFFIC R11-4	FLASHING ARROW SIGN (FAS) M4-10R	FLASHING ARROW SIGN (FAS) M4-10L	DETOUR M4-9AR	DETOUR SC3	DETOUR SC3 (MOD)				

SYMBOL LIST

- WORK AREA
- SIGNALIZED INTERSECTION
- TRAFFIC CONTROL SIGN
- TRAFFIC CONE
- TYPE II BARRICADE
- TYPE III BARRICADE
- FLASHING ARROW SIGN (FAS)
- TRAFFIC DIRECTION
- NOT TO SCALE
- TEMPORARY NO PARKING
- FLAGGER



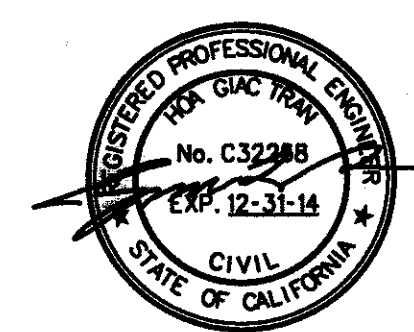
LEGEND
T2 SHEET NUMBER
① PHASE NUMBER

T-1

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF
NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY
 NOTES AND LEGEND

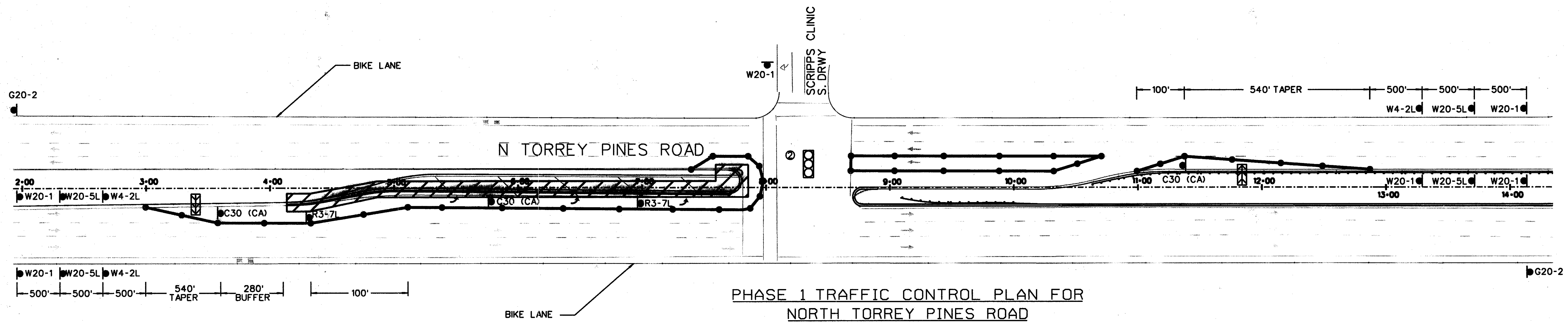
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T1 OF T17 SHEETS		WBS S-00868
APPROVED: <i>Brad Johnson</i>	DATE: 6/11/13	FOR CITY ENGINEER
DESIGNED BY: <i>Sabeen Cochinwala</i>	DATE: 6/11/13	PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: TCE	APPROVED: XX/XX
CONTRACTOR: <i>Tran Consulting Engineers</i>		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____

SEE PLANS
CC897 COORDINATES
SEE PLANS
CC883 COORDINATES
36665-T1-D

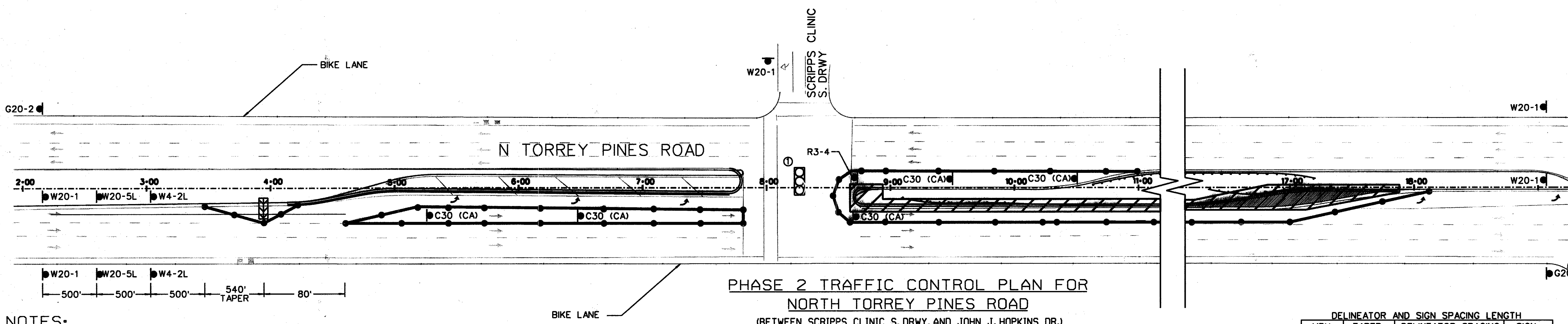


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 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *Brad Johnson*
 DATE: 6-15-13



PHASE 1 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD
(BETWEEN N. TORREY PINES CT. AND SCRIPPS CLINIC S. DRWY.)



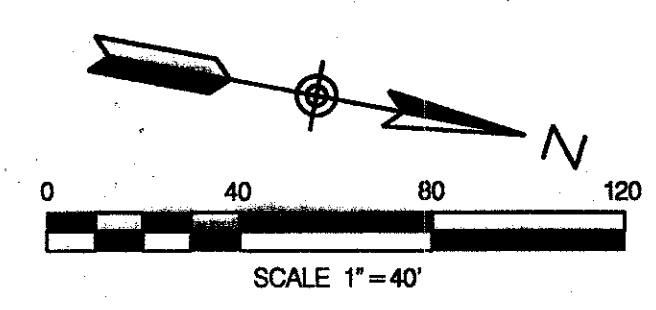
PHASE 2 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD
(BETWEEN SCRIPPS CLINIC S. DRWY. AND JOHN J. HOPKINS DR.)

- NOTES:**
- THE TRAFFIC SIGNAL IN THE T-INTERSECTION BETWEEN N TORREY PINES RD AND SCRIPPS CLINIC S DRWY SHALL BE REPROGRAMMED SO THAT THERE WILL BE NO LEFT TURN SIGNAL FOR VEHICLES TRAVELING IN THE SOUTHBOUND DIRECTION, DURING PHASE 2 TRAFFIC CONTROL. COVER LEFT TURN SIGNAL DURING CONSTRUCTION.
 - THE TRAFFIC SIGNAL IN THE T-INTERSECTION BETWEEN N TORREY PINES RD AND SCRIPPS CLINIC S DRWY SHALL USE A TIMER SYSTEM INSTEAD OF THE CURRENT SENSOR SYSTEM, DURING PHASE 1 TRAFFIC CONTROL.

MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH	
		DELINEATOR SPACING LENGTH TRANSITION	SIGN SPACING
45	540'	45'	500'

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.

TRAFFIC SIGNAL TO REMAIN OPERATIONAL

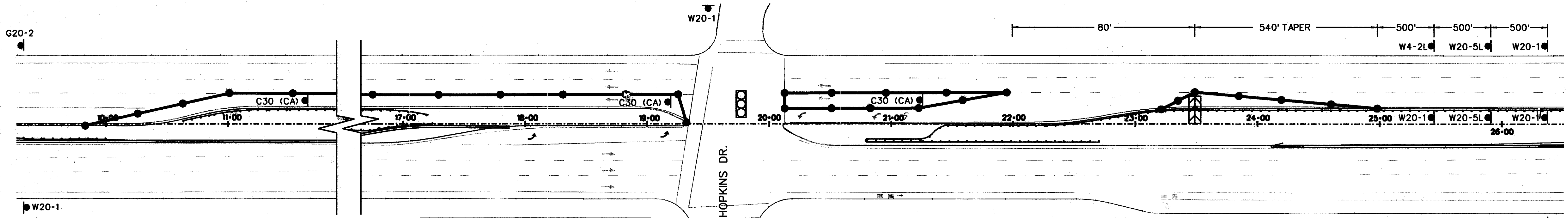


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APPROVED: *[Signature]*
DATE: 4-15-13

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY (BETWEEN SCRIPPS CLINIC S. DRWY. AND JOHN J. HOPKINS DR.)			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T2 OF T17 SHEETS		WBS S-00868	
APPROVED BY: <i>[Signature]</i>	DATE: 6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION: ORIGINAL	BY: TCE	APPROVED: XX/XX	FILED: SABEEN COCHINWALA PROJECT ENGINEER
		266-1695 C322 COORDINATE	
		6256407-1906444 C322 COORDINATE	
CONTRACTOR:	DATE STARTED:	36665-T2-D	
INSPECTOR:	DATE COMPLETED:		

T-2



TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.

TRAFFIC SIGNAL TO REMAIN OPERATIONAL

PHASE 3 GUARD RAIL TRAFFIC CONTROL PLAN FOR NORTH TORREY PINES ROAD
(BETWEEN SCRIPPS CLINIC DRWY. AND JOHN J. HOPKINS DR.)

DELINEATOR AND SIGN SPACING LENGTH

MPH SPEED	TAPER LENGTH	DELINEATOR SPACING LENGTH	SIGN SPACING
N TORREY PINES RD. 45	540'	45'	500'

T-3

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY (BETWEEN SCRIPPS CLINIC DRWY. AND JOHN J. HOPKINS DR.)

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET T3 OF T17 SHEETS

WBS S-00868

APPROVED: *[Signature]* 6/18/10
FOR CITY ENGINEER DATE

SUBMITTED BY: LOUIS SCHULTZ
PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	TCE		XX/XX	

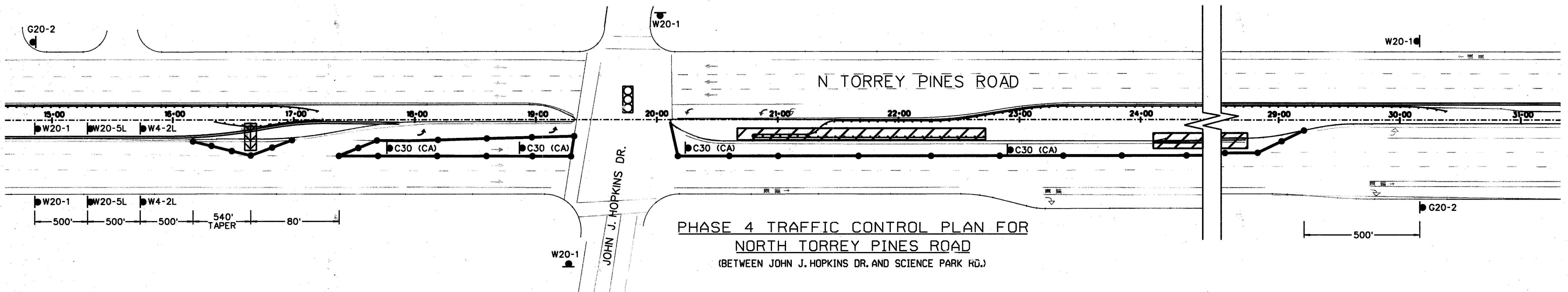
SABEEN COCHINWALA
PROJECT ENGINEER
266-1695
CC827 COORDINATE
6256407-1906444
CC883 COORDINATES

CONTRACTOR: DATE STARTED: 36665-T3-D
INSPECTOR: DATE COMPLETED:

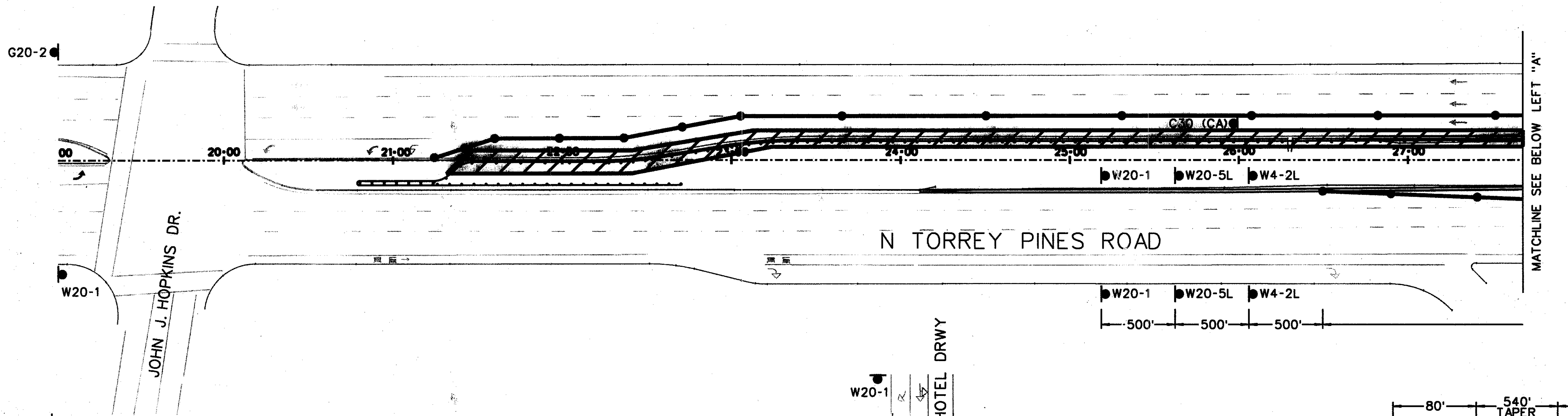


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619-562-7650, FAX 619-563-7821

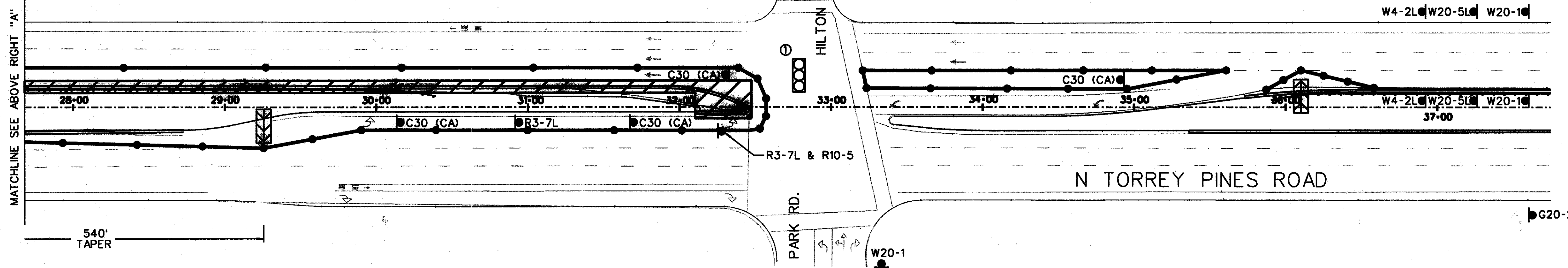
APPROVED: *[Signature]*
DATE: 4-15-13



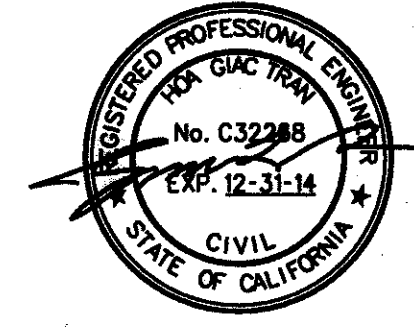
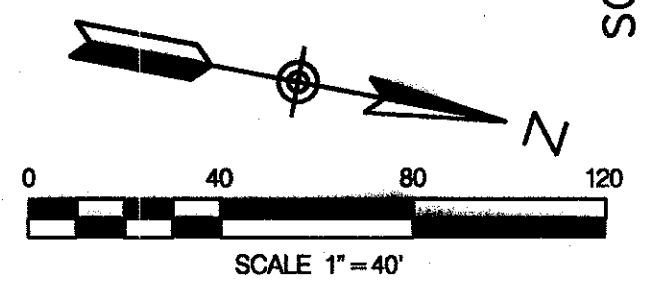
PHASE 4 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD
(BETWEEN JOHN J. HOPKINS DR. AND SCIENCE PARK RD.)



PHASE 5 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD
(BETWEEN JOHN J. HOPKINS DR. AND SCIENCE PARK RD.)



NOTE:
 ① THE TRAFFIC SIGNAL IN THE INTERSECTION BETWEEN N TORREY PINES RD AND SCIENCE PARK RD SHALL USE A TIMER SYSTEM INSTEAD OF THE CURRENT SENSOR SYSTEM, DURING PHASE 5 TRAFFIC CONTROL.

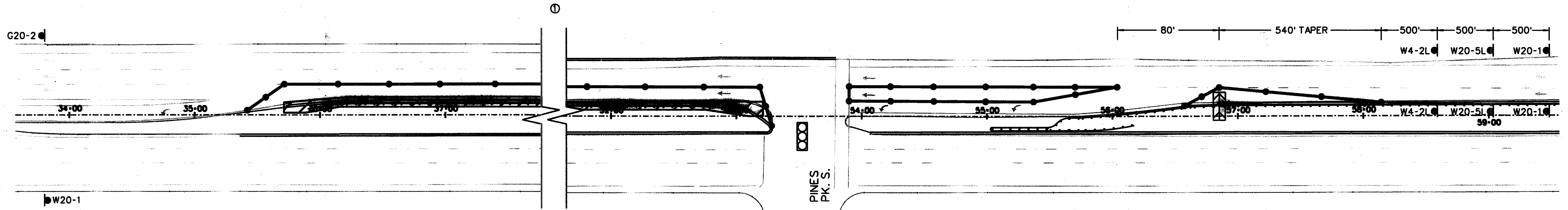


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 San Diego, California 92115
 619-662-7650, FAX 619-583-7821

APPROVED: *[Signature]*
 DATE: 4-15-13

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY (BETWEEN JOHN J. HOPKINS DR. AND SCIENCE PARK RD.)				WBS S-00868	
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T4 OF T17 SHEETS				SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER	
FOR CITY ENGINEER: <i>[Signature]</i> 6/11/13				DATE: 6/11/13	
DESCRIPTION	BY	APPROVED	DATE	FILED	SABEEN COCHINWALA PROJECT ENGINEER 266-1695 CCS27 COORDINATE
ORIGINAL	TCE		XX/XX		
				6256407-1906444 CCS83 COORDINATES	
CONTRACTOR		DATE STARTED		36665-T4-D	
INSPECTOR		DATE COMPLETED			

T-4

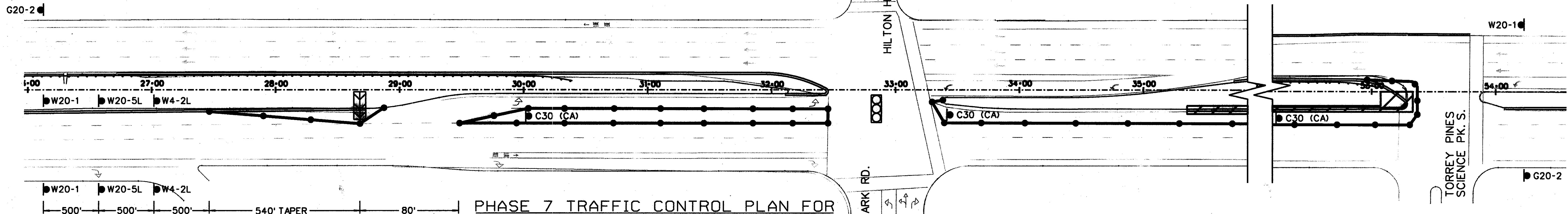


TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.

TRAFFIC SIGNAL TO REMAIN OPERATIONAL

PHASE 6 TRAFFIC CONTROL PLAN FOR NORTH TORREY PINES ROAD
(BETWEEN SCIENCE PARK R. AND TORREY PINES SCIENCE PK. S.)

TORREY PINES SCIENCE PK. S.



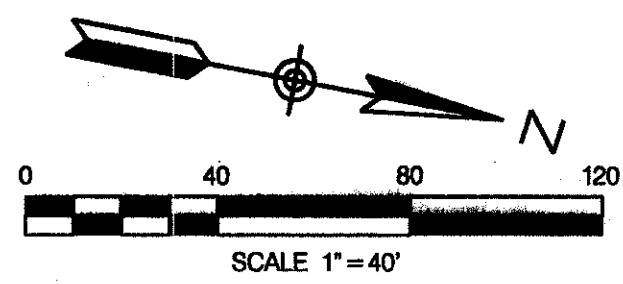
PHASE 7 TRAFFIC CONTROL PLAN FOR NORTH TORREY PINES ROAD
(BETWEEN SCIENCE PARK R. AND TORREY PINES SCIENCE PK. S.)

HILTON HOTEL DRWY

SCIENCE PARK RD.

TORREY PINES SCIENCE PK. S.

NOTE:
① THIS TRAFFIC CONTROL PLAN INCLUDES WORK AT CENTER MEDIAN ONLY. FOR CALLAN RD WORK SEE SHEET T6.



DELINEATOR AND SIGN SPACING LENGTH			
MPH SPEED	TAPER LENGTH	DELINEATOR SPACING LENGTH	SIGN SPACING
45	540'	45'	500'



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APPROVED: *[Signature]*
DATE: 4-15-13

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY (BETWEEN SCIENCE PARK R. AND TORREY PINES SCIENCE PK. S.)

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET T5 OF T17 SHEETS

WBS S-00868

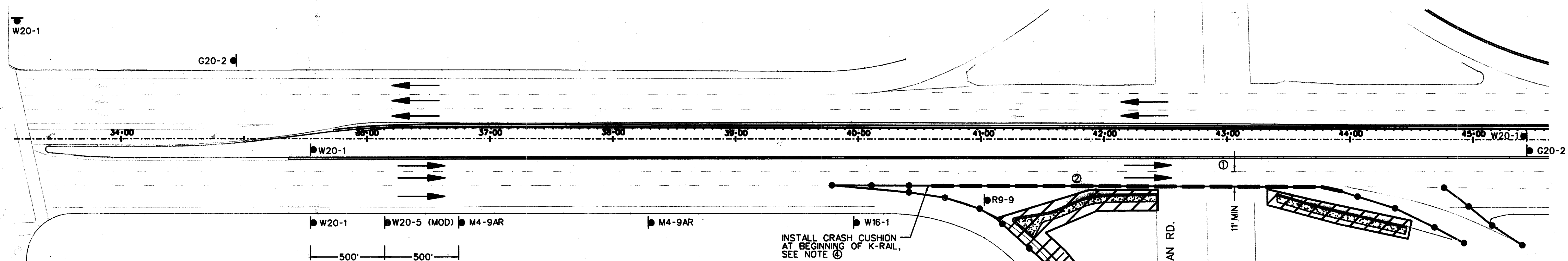
APPROVED BY: *[Signature]* 6/11/13
FOR CITY ENGINEER DATE

PROJECT MANAGER: LOUIS SCHULTZ
PROJECT ENGINEER: SABEEN COCHINWALA
266-1695
6256407-1906444
36665-T5-D

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	TCE		XX/XX	

CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

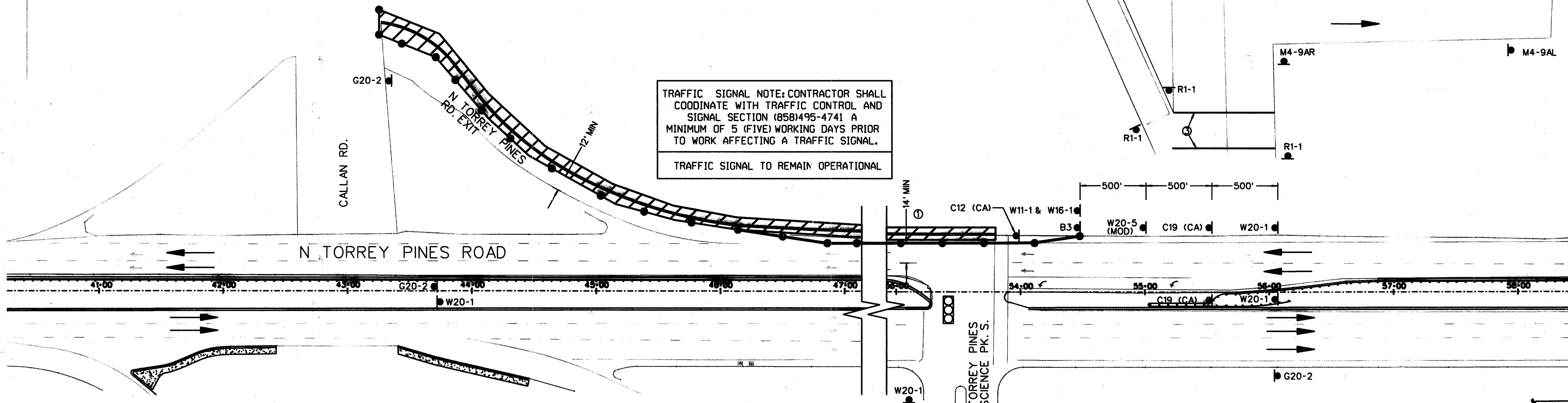
T-5



**PHASE 8 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD**
(ON N. TORREY PINES RD. AND THE RAMPS TO CALLAN RD.)

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL
COORDINATE WITH TRAFFIC CONTROL AND
SIGNAL SECTION (858)495-4741 A
MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR
TO WORK AFFECTING A TRAFFIC SIGNAL.

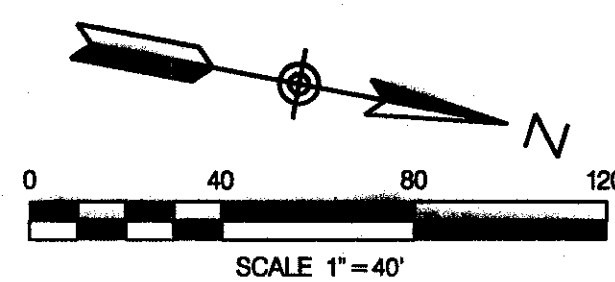
TRAFFIC SIGNAL TO REMAIN OPERATIONAL



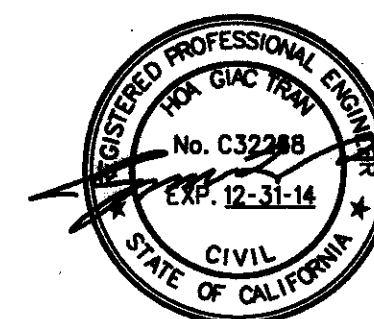
**PHASE 9 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD**
(BETWEEN TORREY PINES SCIENCE PK. S AND CALLAN RD.)

NOTE:

- ① MINIMUM 11' ROADWAY
- ② USE K-RAIL BARRICADES TO PROTECT WORK AREAS.
- ③ PROVIDE TEMPORARY CROSSWALK STRIPING AS INDICATED DURING TRAFFIC CONTROL PHASE 8. REMOVE STRIPING PAINT AFTER PHASE 8 CONSTRUCTION HAS BEEN COMPLETED.
- ④ USE ARRAY 'TU14' TYPE CRASH CUSHION PER DRAWING T1A OF 2010 CALTRANS STANDARD PLANS.



MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH	
		DELINEATOR SPACING LENGTH TRANSITION	SIGN SPACING
N TORREY PINES RD. 45	540'	45'	500'

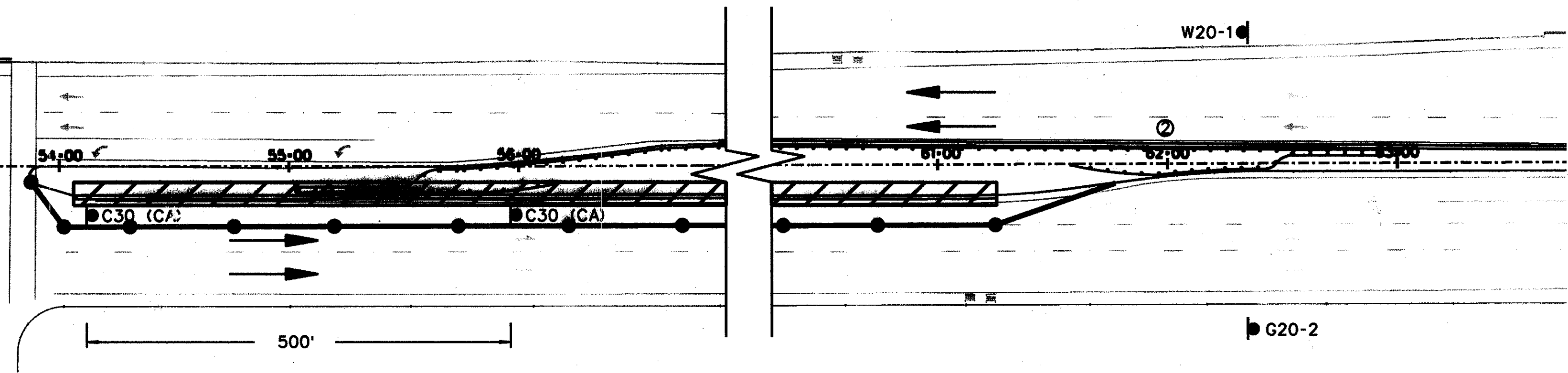
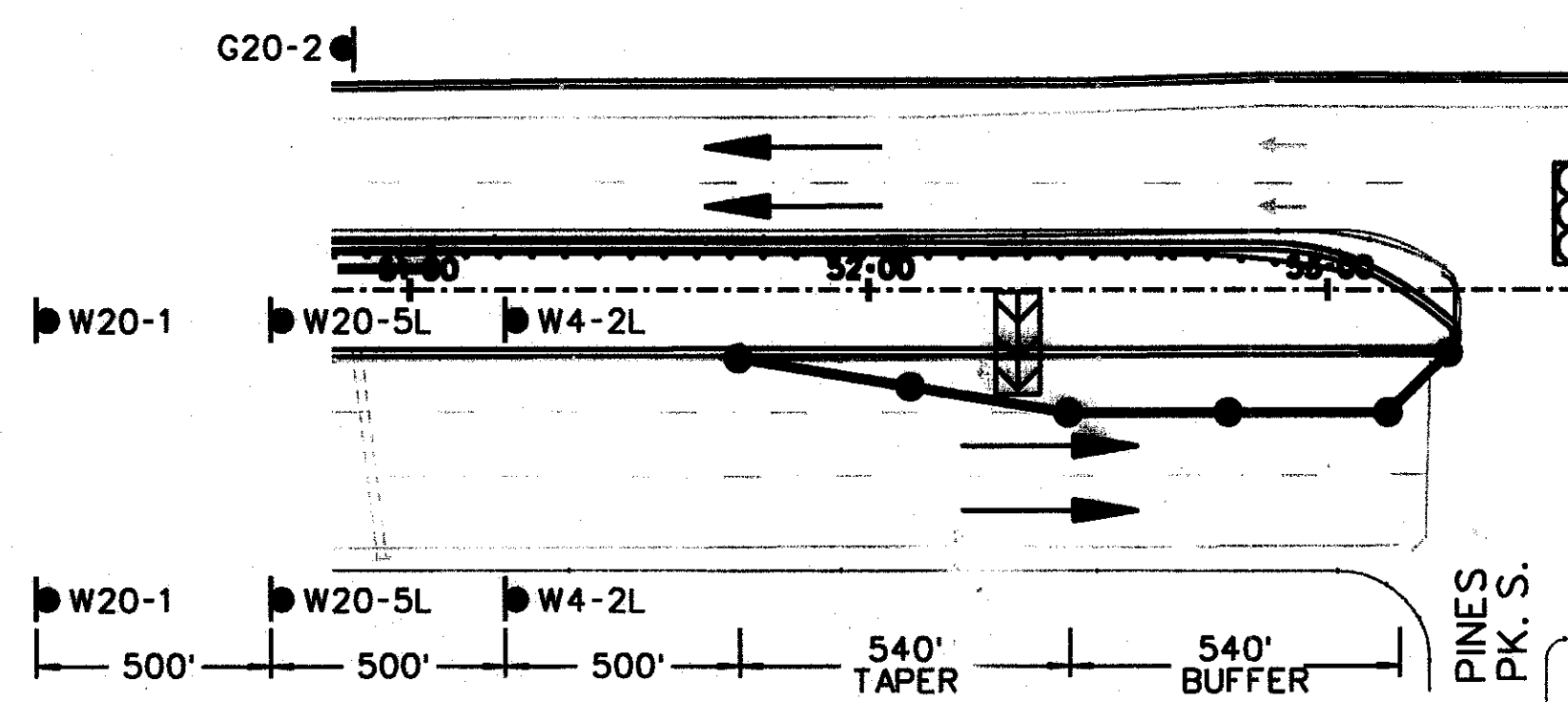


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619-562-7650, FAX 619-663-7821

APPROVED: *[Signature]*
DATE: 4-15-13

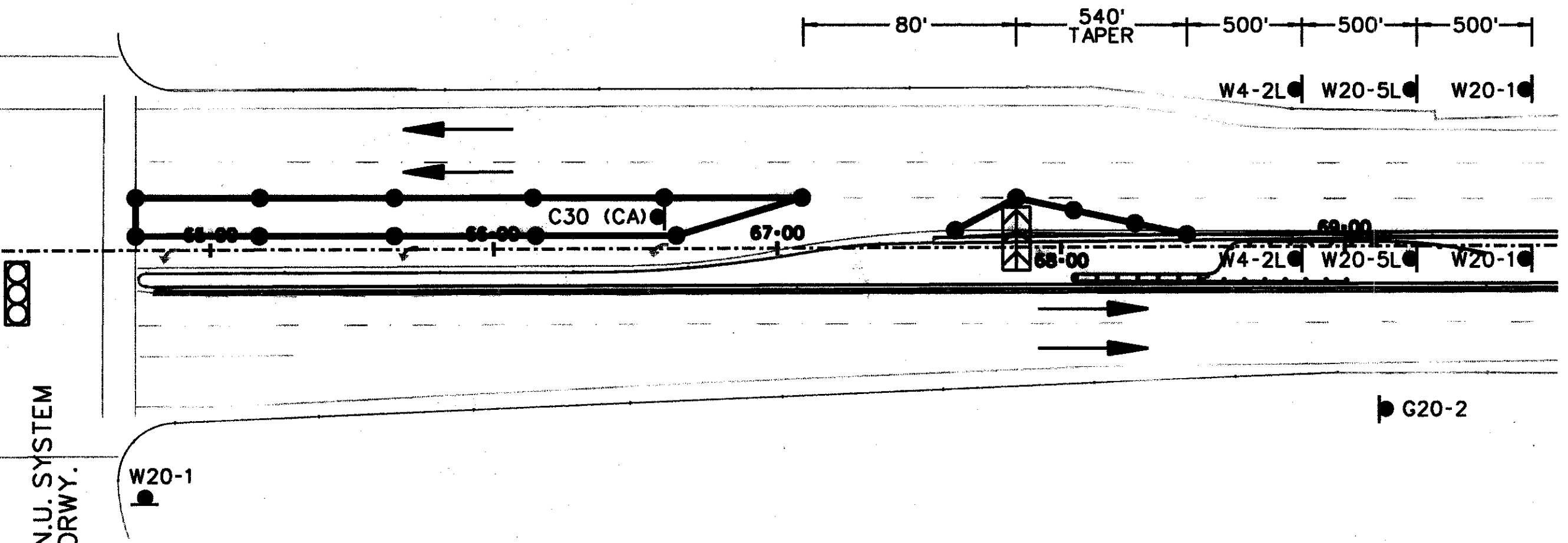
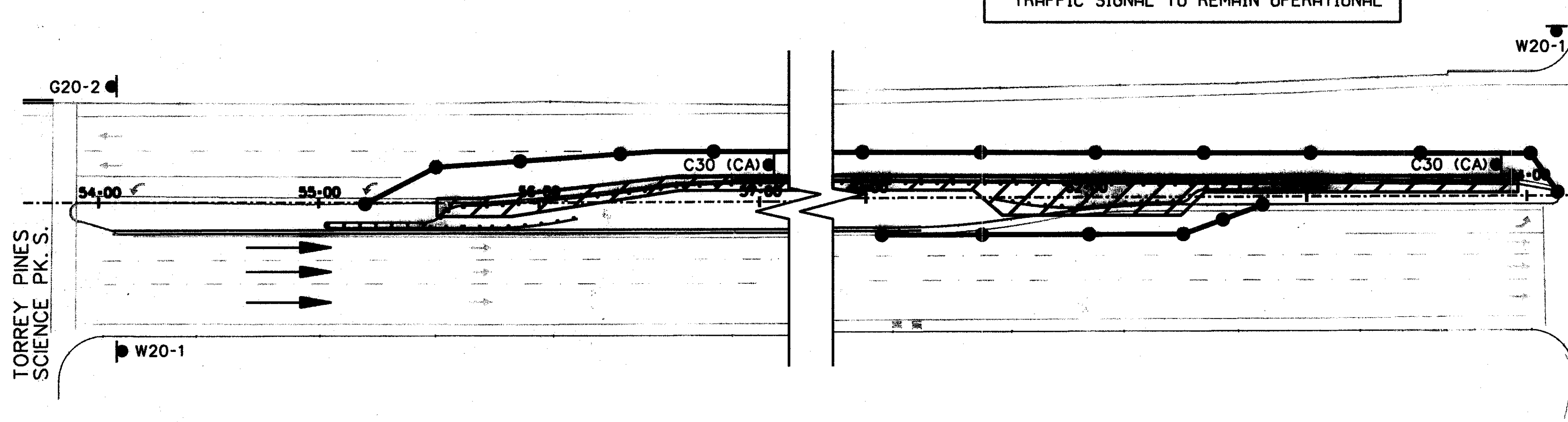
T-6

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY (BETWEEN TORREY PINES SCIENCE PK. S AND CALLAN RD.)				WBS S-00868
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T6 OF T17 SHEETS				
APPROVED FOR CITY ENGINEER	DATE	6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	TCE		XX/XX	
				SABEEN COCHINWALA PROJECT ENGINEER
				266-1695 CCS27 COORDINATE
				6256407-1906444 CCS83 COORDINATES
CONTRACTOR	DATE STARTED	36665-T6-D		
INSPECTOR	DATE COMPLETED			



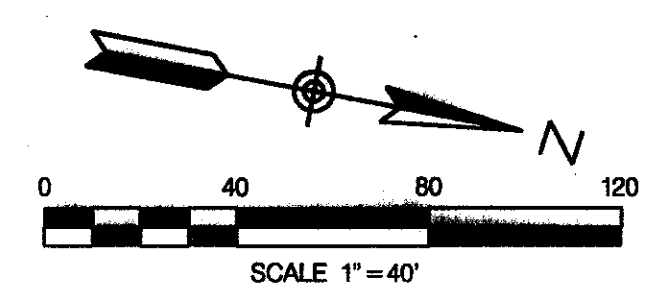
PHASE 10 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD
(BETWEEN TORREY PINES SCIENCE PK. S AND N.U. SYSTEM DRWY.)

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.
TRAFFIC SIGNAL TO REMAIN OPERATIONAL



PHASE 11 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD
(BETWEEN TORREY PINES SCIENCE PK. S AND N.U. SYSTEM DRWY.)

NOTE:
① MINIMUM 11' ROADWAY



MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH	
		DELINEATOR SPACING	SIGN SPACING
45	540'	TRANSITION 45'	500'

T-7

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF
NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENT
STATE RESERVE BOUNDARY
(BETWEEN TORREY PINES SCIENCE
PK. S AND N.U. SYSTEM DRWY.)

CITY OF SAN DIEGO, CALIFORNIA
ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
SHEET T7 OF T17 SHEETS

WBS S-00868

APPROVED: *[Signature]* 6/10/13
FOR CITY ENGINEER DATE

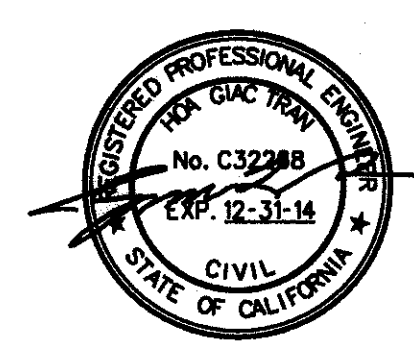
SUBMITTED BY: LOUIS SCHULTZ
PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	TCE		XX/XX	

SABEEN COCHINWALA
PROJECT ENGINEER
270-1695
CCSB7 COORDINATE
6256407-191044.4
CCSB3 COORDINATES

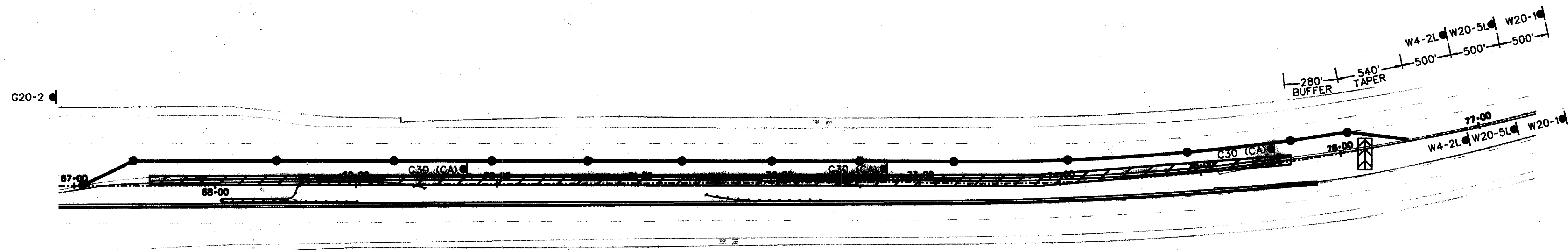
CONTRACTOR: _____ DATE STARTED: _____
INSPECTOR: _____ DATE COMPLETED: _____

36665-T7-D



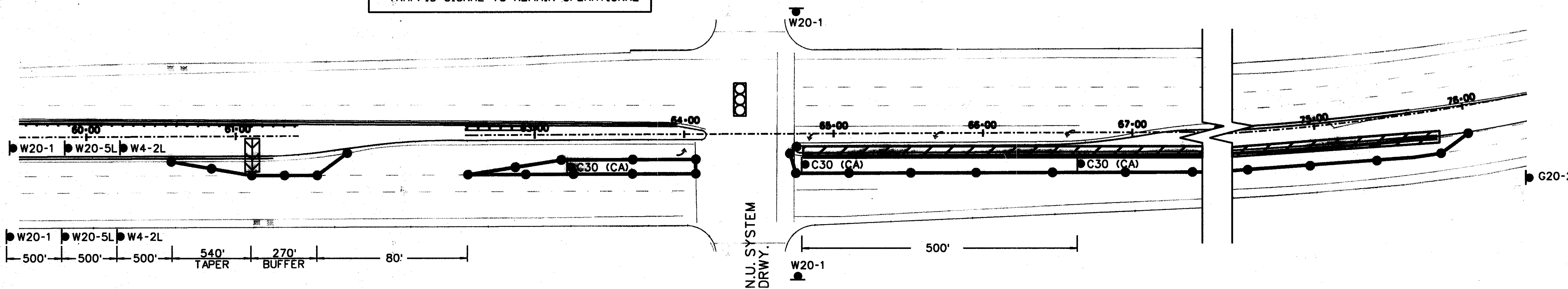
Tran Consulting Engineers
4444 El Cajon Blvd, Suite 15
San Diego, California 92115
619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
DATE: 4-15-13

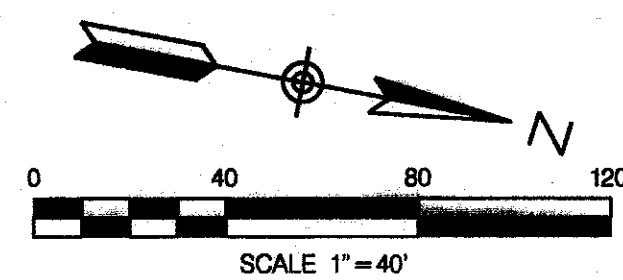


**PHASE 12 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD**
(NORTH OF N.U. SYSTEM DRWY. ON N. TORREY PINES RD.)

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.
TRAFFIC SIGNAL TO REMAIN OPERATIONAL



**PHASE 13 TRAFFIC CONTROL PLAN FOR
NORTH TORREY PINES ROAD**
(NORTH OF N.U. SYSTEM DRWY. ON N. TORREY PINES RD.)



DELINEATOR AND SIGN SPACING LENGTH			
MPH SPEED	TAPER LENGTH	DELINEATOR SPACING LENGTH	SIGN SPACING
45	540'	45'	500'

T-8

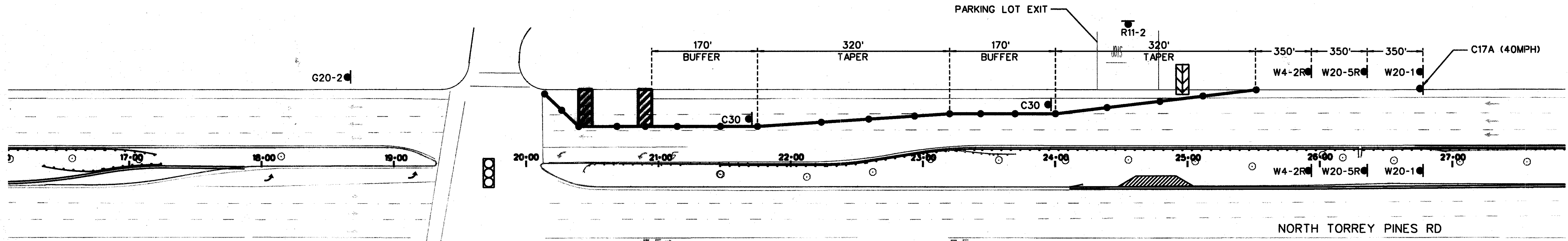
TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF
NORTH TORREY PINES ROADWAY
AND MEDIAN ENHANCEMENT
STATE RESERVE BOUNDARY
(NORTH OF N.U. SYSTEM DRWY. ON N.
TORREY PINES RD.)

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T8 OF T17 SHEETS		WBS S-00868
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE 6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION ORIGINAL	BY TCE	APPROVED XX/XX
DATE XX/XX	FILED	SABEEN COCHINWALA PROJECT ENGINEER
		270-1695 CCS27 COORDINATE
		6256407-1910444 CCS83 COORDINATES
CONTRACTOR	DATE STARTED	36665-T8-D
INSPECTOR	DATE COMPLETED	



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4444 El Cajon Blvd, Suite 15
San Diego, California 92115
619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
DATE: 4-15-13

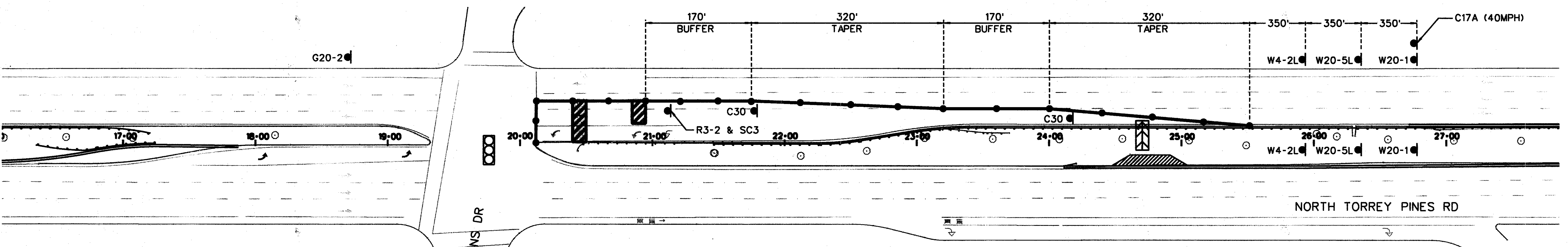


TRAFFIC CONTROL PLAN (PHASE 1)

N TORREY PINES RD AND JOHN HOPKINS INTERSECTION
 TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE
 AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH	
		DELINEATOR SPACING LENGTH	TRANSITION SIGN SPACING
45	540'	45'	500'
40	320'	40'	350'

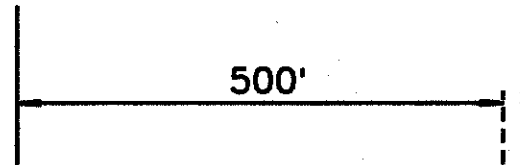
N TORREY PINES RD.



TRAFFIC CONTROL PLAN (PHASE 2)

N TORREY PINES RD AND JOHN HOPKINS INTERSECTION
 TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE
 AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

SCRIPPS CLINIC SOUTH DRWY



JOHN HOPKINS DR

NORTH TORREY PINES RD

SC3 (MOD) SC3 (MOD)

SC3

PHASE 2 DETOUR PLAN

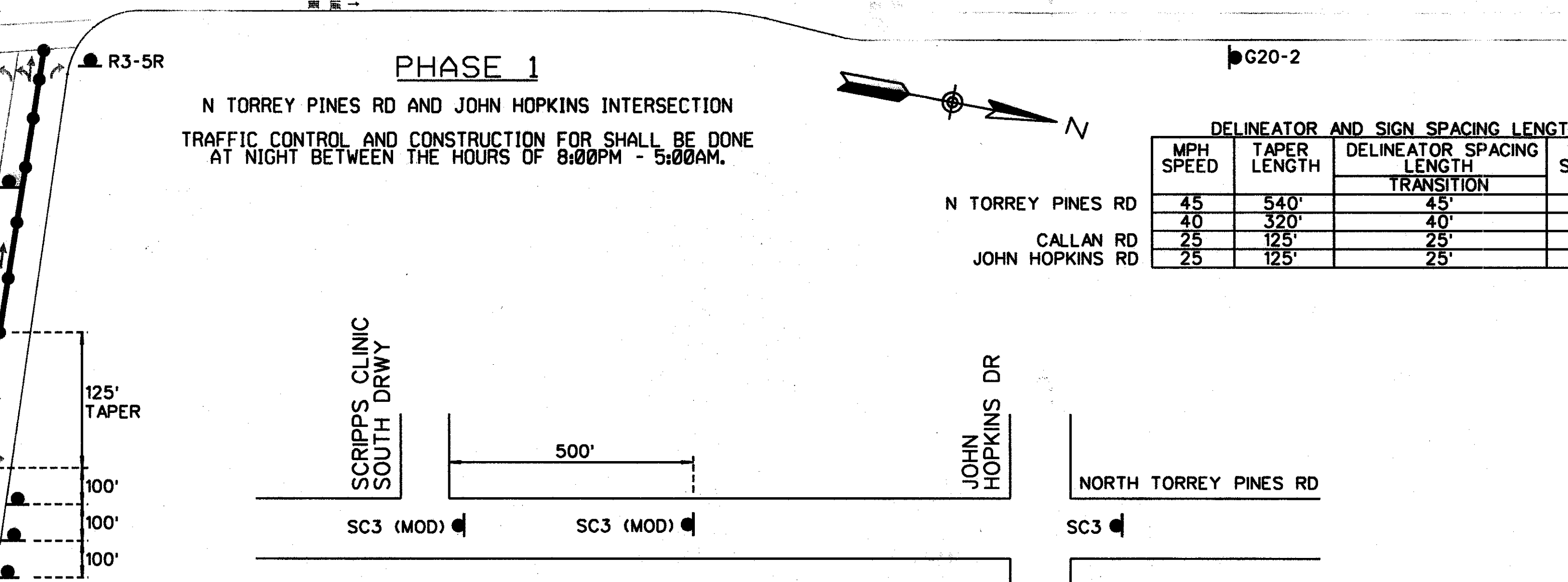
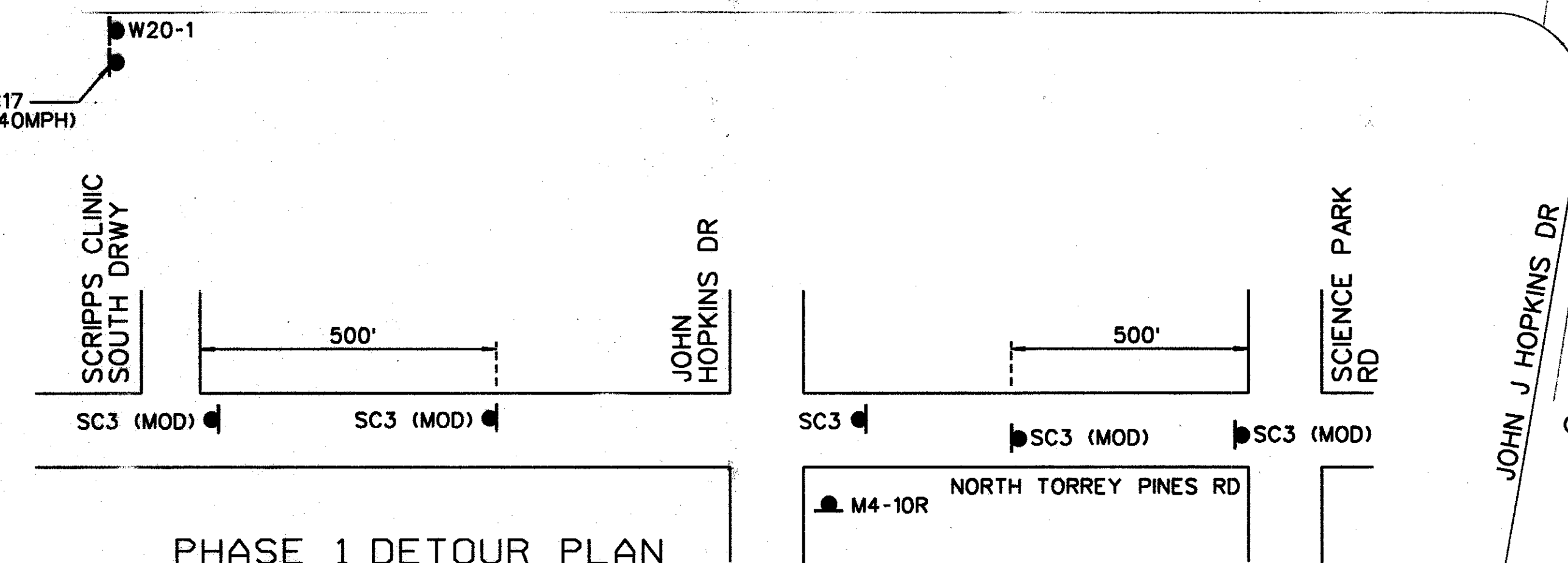
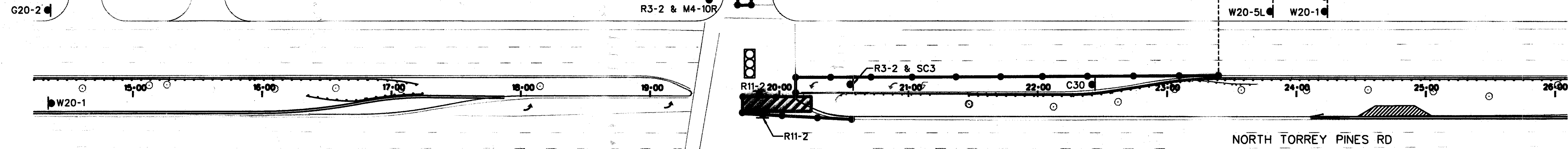
T-9

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T9 OF T17 SHEETS			WBS S-00868
APPROVED FOR CITY ENGINEER	DATE	SUBMITTED BY	
<i>[Signature]</i>	6/11/13	LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION	BY	APPROVED	DATE
ORIGINAL	TCE	XX/XX	
PROJECT ENGINEER			SABEEN COCHINWALA
COORDINATE			266-1695
COORDINATE			6256407-1906444
CONTRACTOR			36665-T9-D
DATE STARTED		DATE COMPLETED	



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 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13



PHASE 1
 N TORREY PINES RD AND JOHN HOPKINS INTERSECTION
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE
 AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

PHASE 2
 N TORREY PINES RD AND JOHN HOPKINS INTERSECTION
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE
 AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

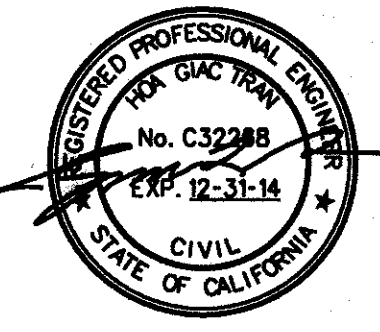
MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH		
		DELINEATOR SPACING LENGTH	SIGN SPACING	
N TORREY PINES RD	45	540'	45'	500'
CALLAN RD	40	320'	40'	350'
JOHN HOPKINS RD	25	125'	25'	100'
	25	125'	25'	100'

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

NOTES:
 ① THE TRAFFIC SIGNAL IN THE INTERSECTION BETWEEN N TORREY PINES RD AND JOHN J HOPKINS DR SHALL USE A TIMER SYSTEM INSTEAD OF THE CURRENT SENSOR SYSTEM, DURING PHASE 2 TRAFFIC CONTROL.

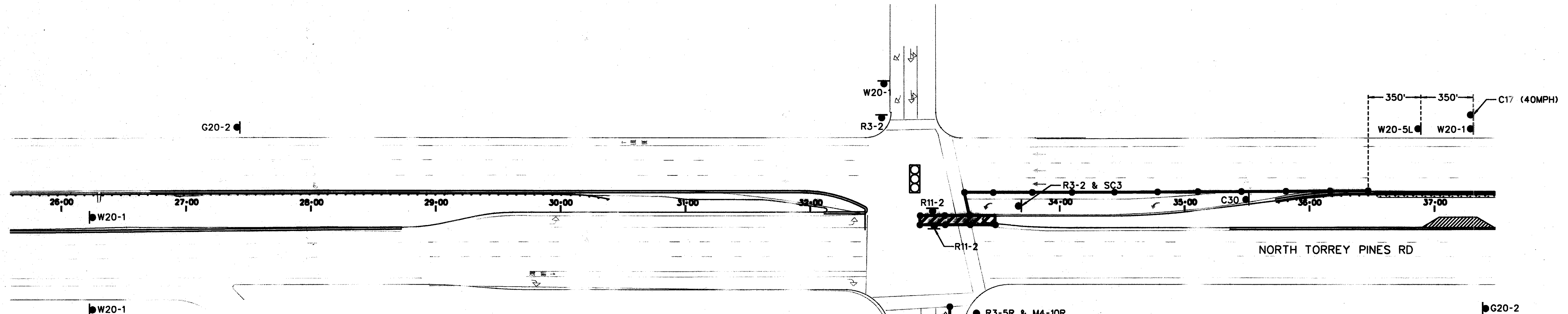
T-10

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T10 OF T17 SHEETS		WBS S-00868
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: TCE	DATE: XX/XX
FILMED		SABEEN COCHINWALA PROJECT ENGINEER
		266-1695 CC827 COORDINATE
		6256407-1906444 CC883 COORDINATES
CONTRACTOR	DATE STARTED	36665-T10-D
INSPECTOR	DATE COMPLETED	



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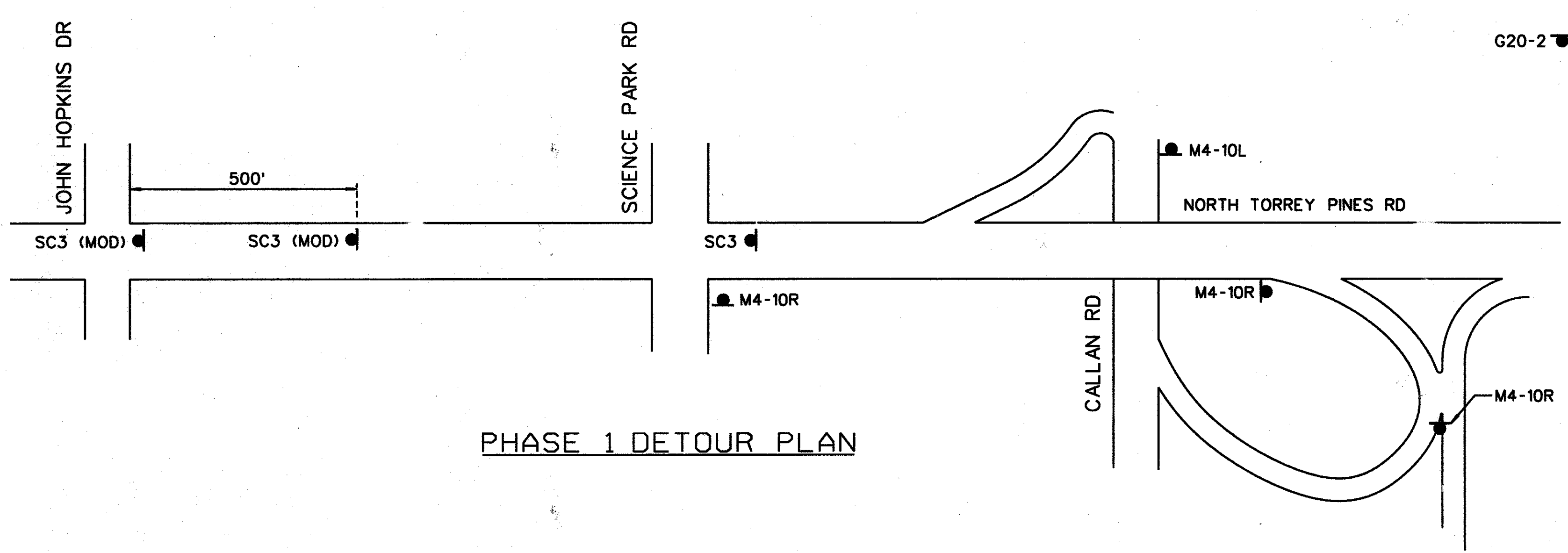
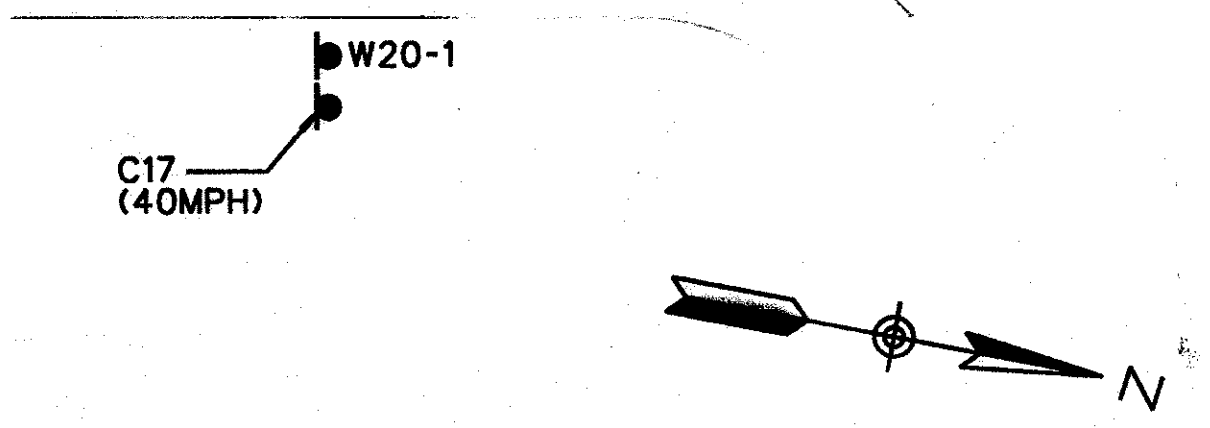
APPROVED: *[Signature]*
 DATE: 4-15-13



PHASE 1
 N TORREY PINES RD AND SCIENCE PARK RD INTERSECTION
 TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

NOTE:
 1. SEE DETOUR PLAN FOR THIS PHASE BELOW TO THE LEFT.

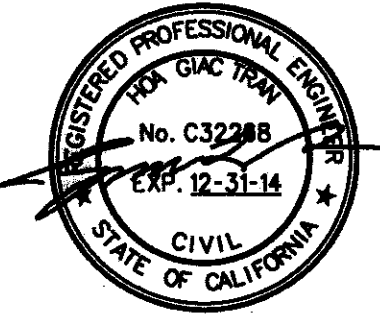
MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH	
		DELINEATOR SPACING	SIGN SPACING
45	540'	45'	500'
40	320'	40'	350'
25	125'	25'	100'



T-11

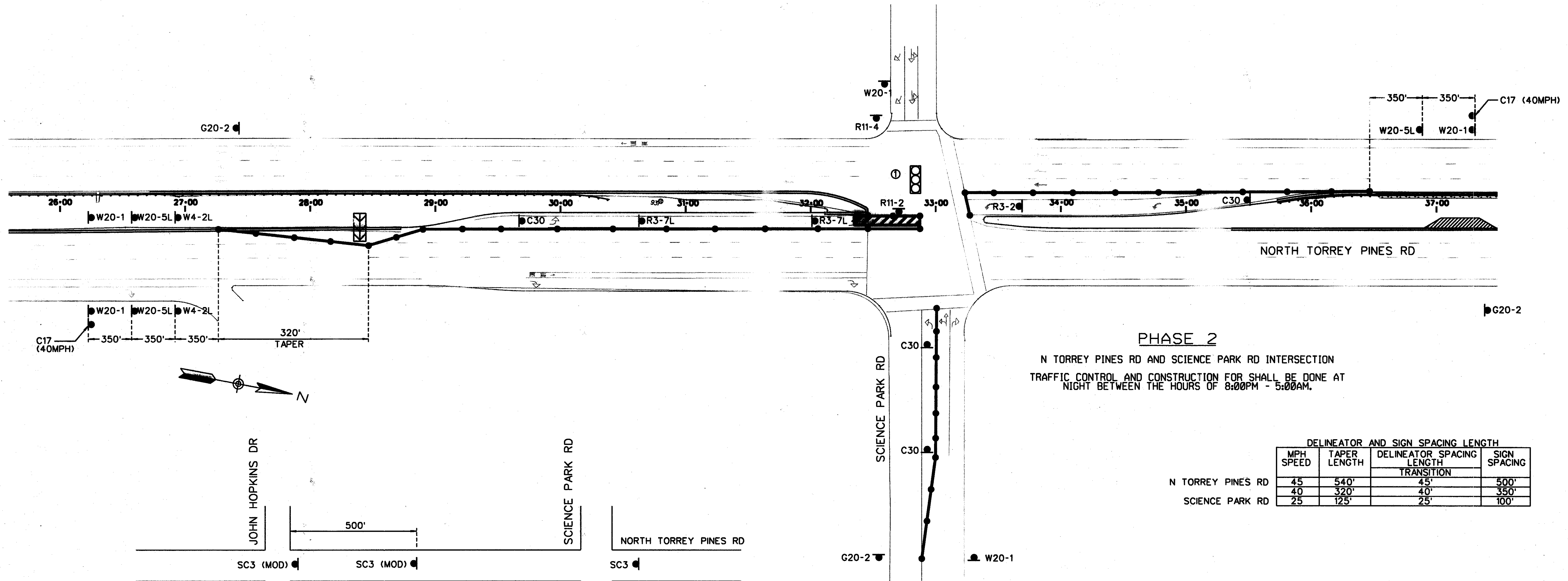
TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF
 NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT
 STATE RESERVE BOUNDARY

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T11 OF T17 SHEETS		WBS S-00868
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 6/10/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION	BY	APPROVED DATE
ORIGINAL	TCE	XX/XX
FILMED		SABEEN COCHINWALA PROJECT ENGINEER
		266-1695 CCS27 COORDINATE
		6256407-1906444 CCS83 COORDINATES
CONTRACTOR	DATE STARTED	36665-T11-D
INSPECTOR	DATE COMPLETED	



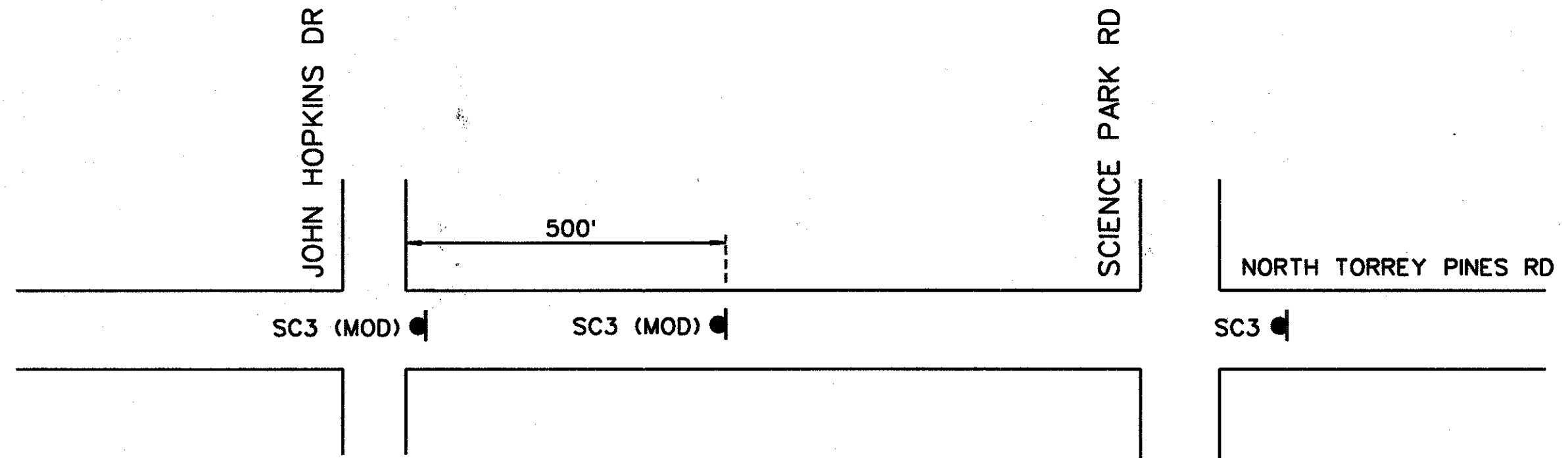
Tran Consulting Engineers
 4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-662-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13



PHASE 2
 N TORREY PINES RD AND SCIENCE PARK RD INTERSECTION
 TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE AT
 NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH	
		DELINEATOR SPACING LENGTH	SIGN SPACING
N TORREY PINES RD 45	540'	45'	500'
40	320'	40'	350'
SCIENCE PARK RD 25	125'	25'	100'



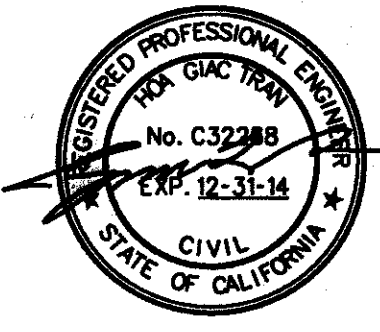
PHASE 2 DETOUR PLAN

TRAFFIC SIGNAL NOTE: CONTRACTOR SHALL COORDINATE WITH TRAFFIC CONTROL AND SIGNAL SECTION (858)495-4741 A MINIMUM OF 5 (FIVE) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.
 TRAFFIC SIGNAL TO REMAIN OPERATIONAL

NOTES:
 ① THE TRAFFIC SIGNAL IN THE INTERSECTION BETWEEN N TORREY PINES RD AND SCIENCE PARK RD SHALL USE A TIMER SYSTEM INSTEAD OF THE CURRENT SENSOR SYSTEM, DURING PHASE 2 TRAFFIC CONTROL.

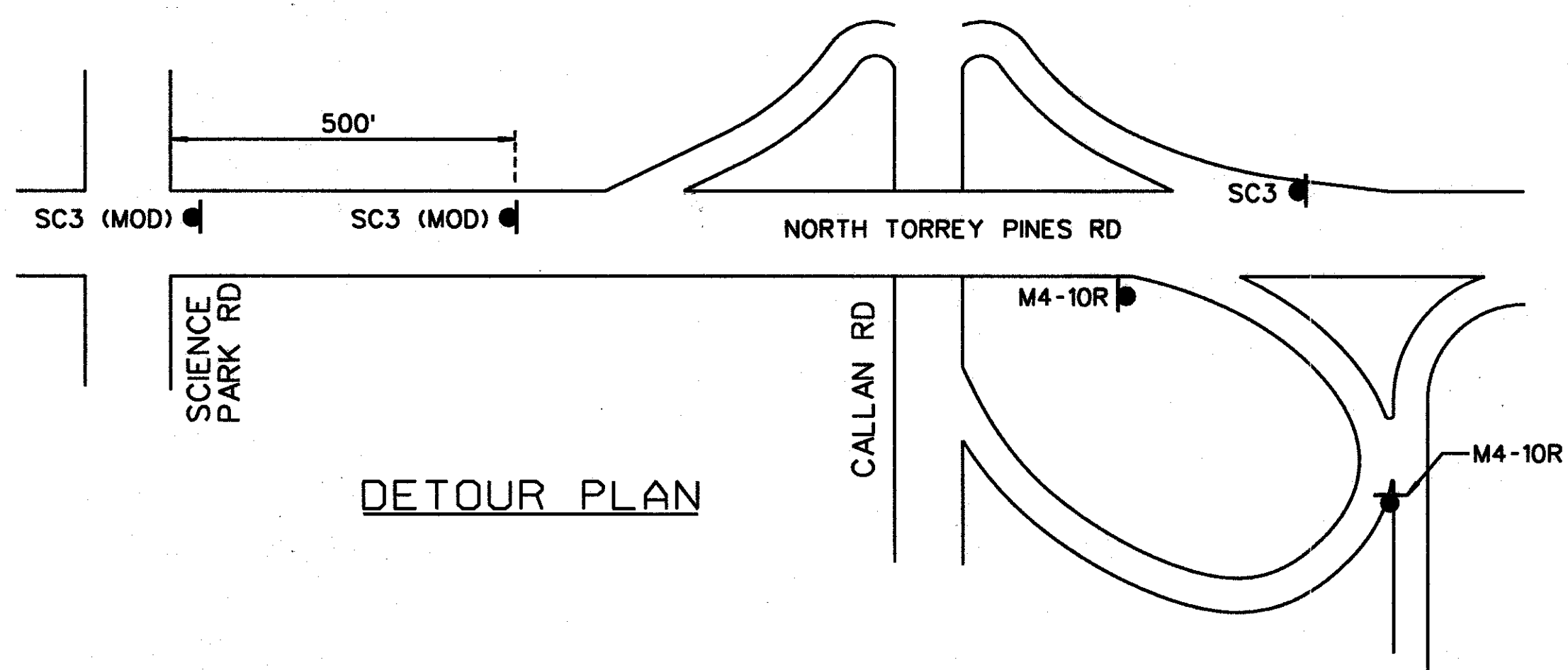
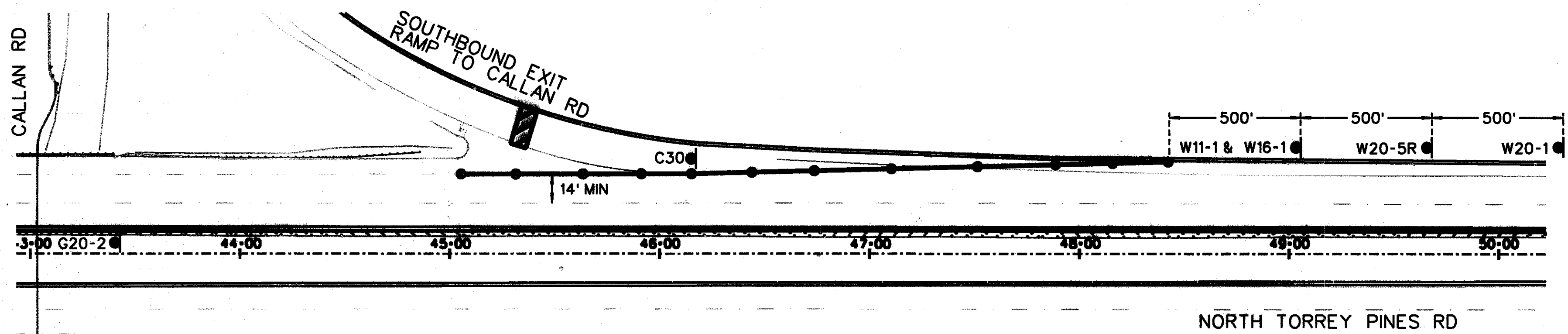
T-12

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T12 OF T17 SHEETS		WBS S-00868
APPROVED BY: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: TCE	APPROVED: SABEEN COCHINWALA PROJECT ENGINEER
		266-1695 CC827 COORDINATE
		6256407-1906444 CC883 COORDINATES
CONTRACTOR	DATE STARTED	36665-T12-D
INSPECTOR	DATE COMPLETED	



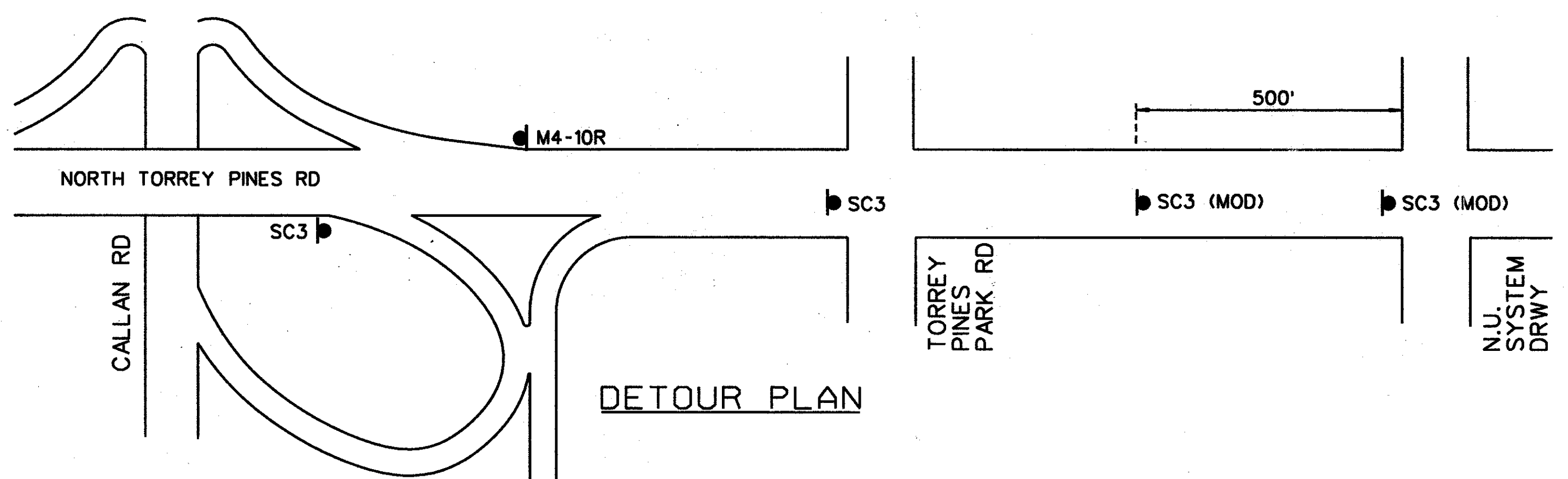
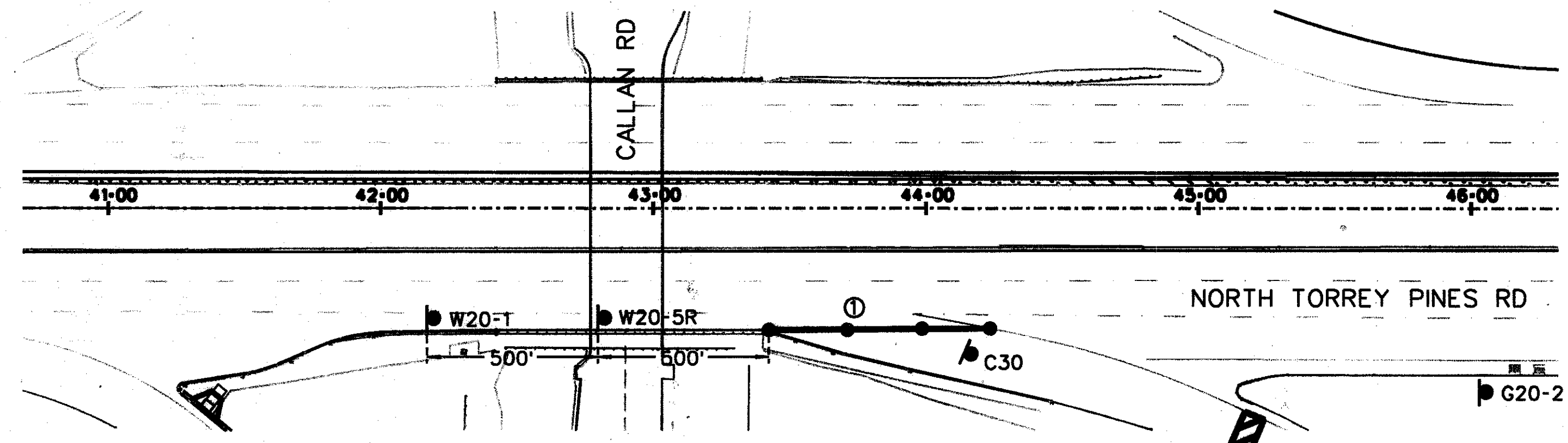
Tran Consulting Engineers
 4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13



TRAFFIC CONTROL PLAN
SOUTHBOUND N TORREY PINES RD EXIT RAMP TO CALLAN RD (SHOWN)
TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

DETOUR PLAN

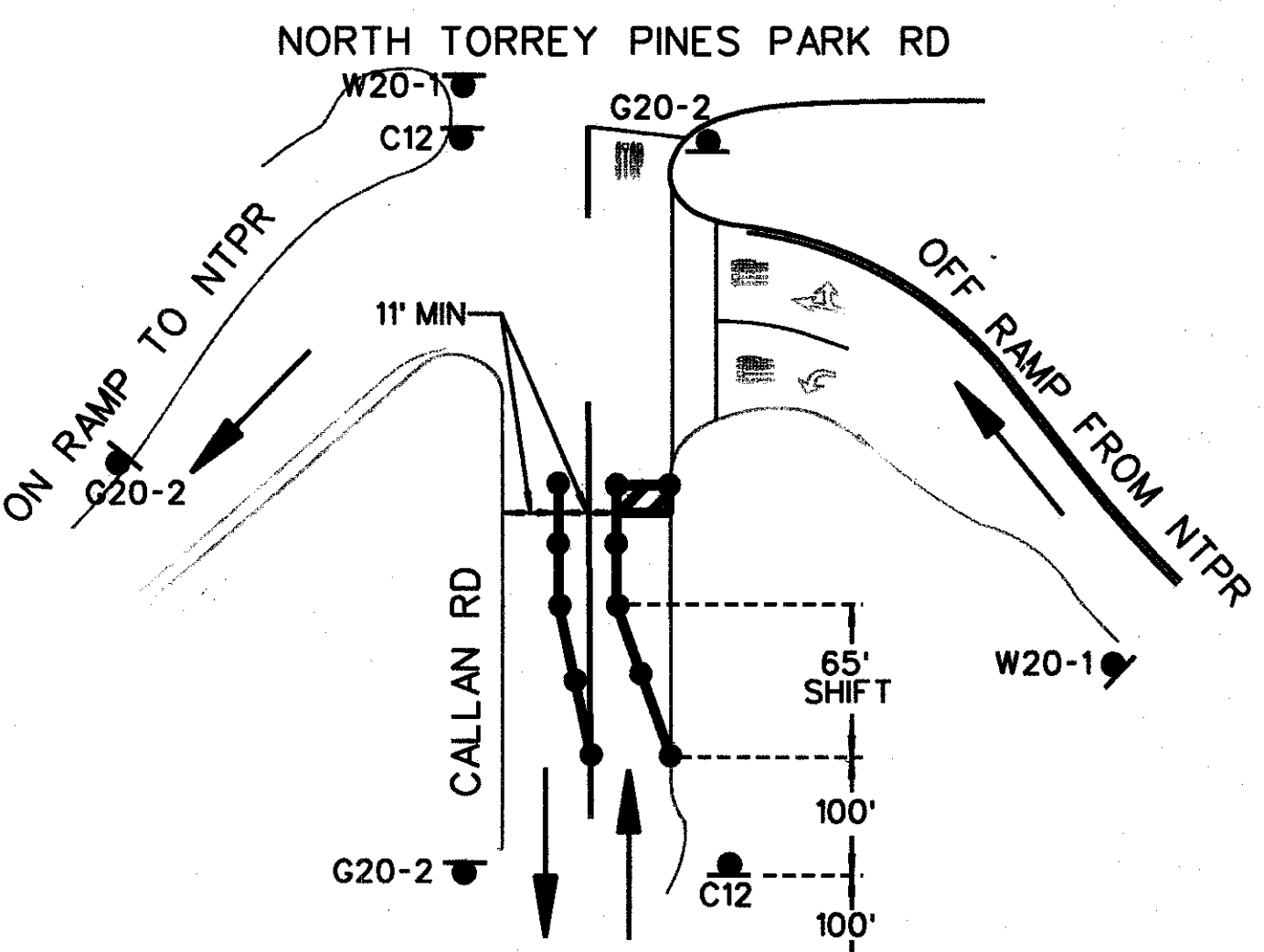
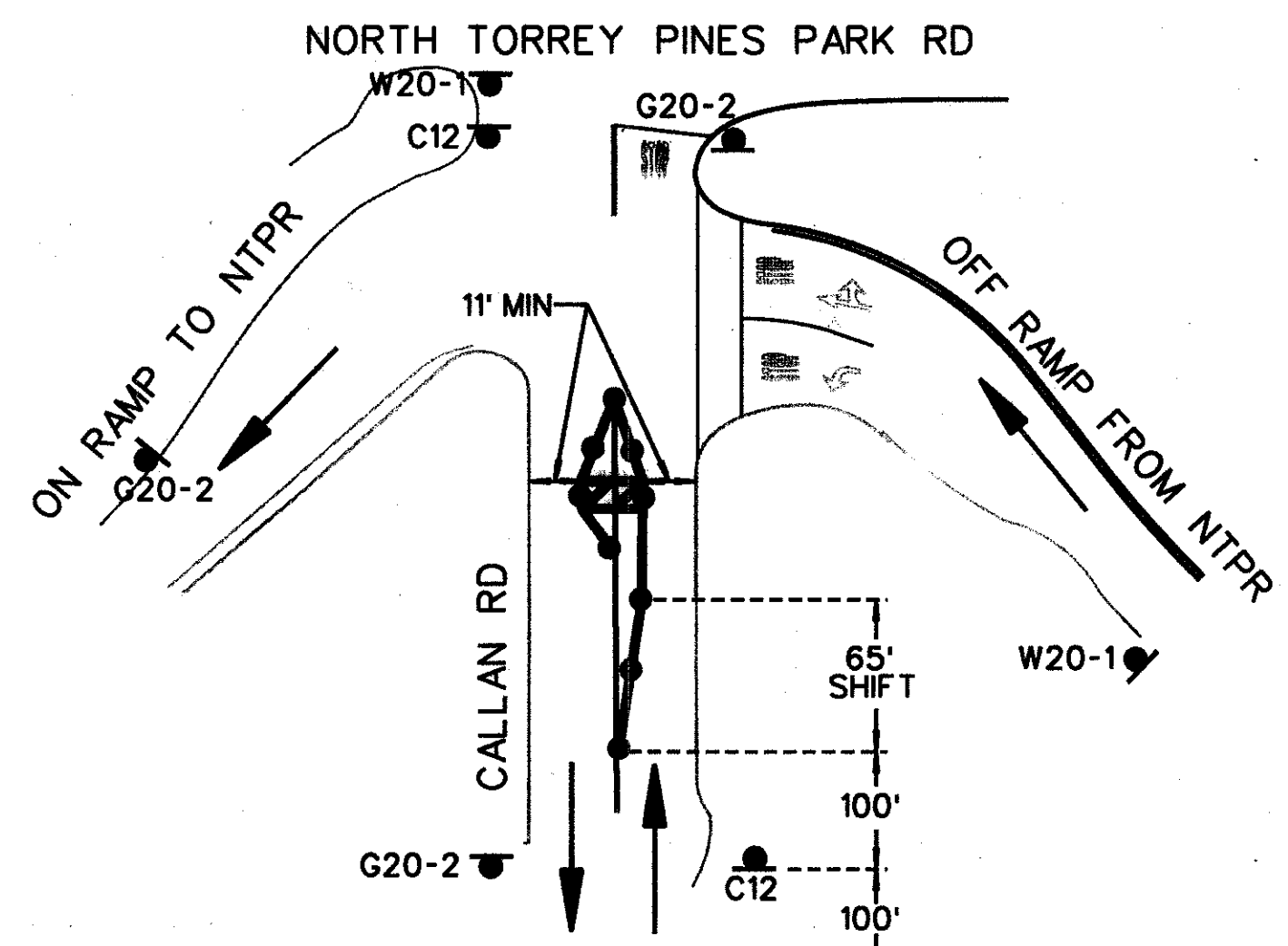
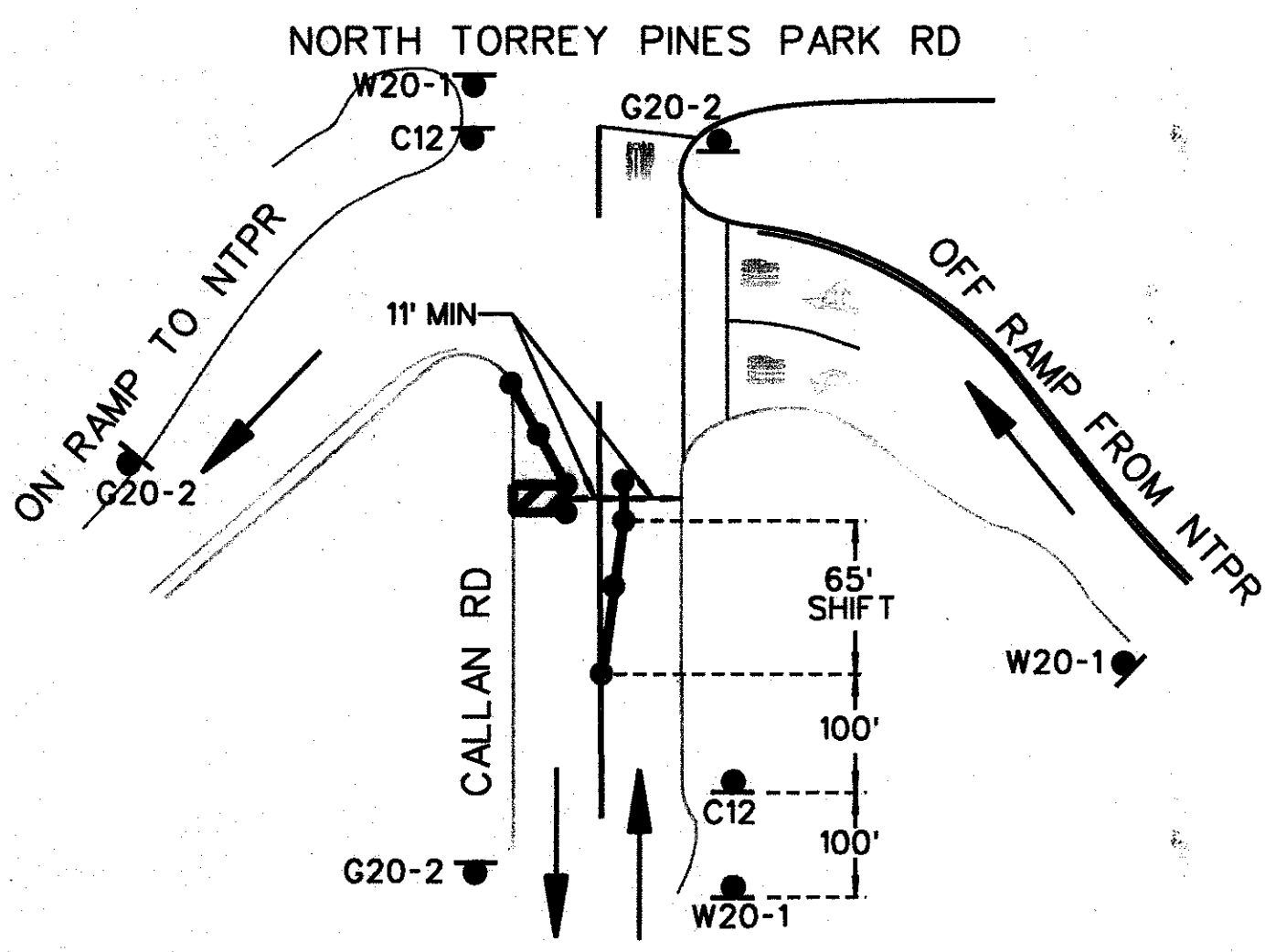


TRAFFIC CONTROL PLAN
NORTHBOUND N TORREY PINES RD EXIT RAMP TO CALLAN RD (SHOWN)
TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

DETOUR PLAN

NOTES:
① KEEP BIKE LANE OPEN DURING CONSTRUCTION

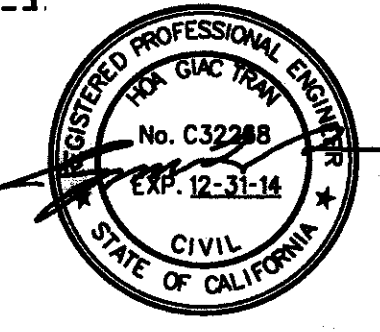
DELINEATOR AND SIGN SPACING LENGTH			
MPH SPEED	TAPER LENGTH	DELINEATOR LENGTH	SIGN SPACING
N TORREY PINES RD	45	540'	45'
CALLAN RD	40	320'	40'
	25	125'	25'
		TRANSITION	500'
			350'
			100'



TRAFFIC CONTROL PLAN
CALLAN RD AND N TORREY PINES RD RAMP
TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

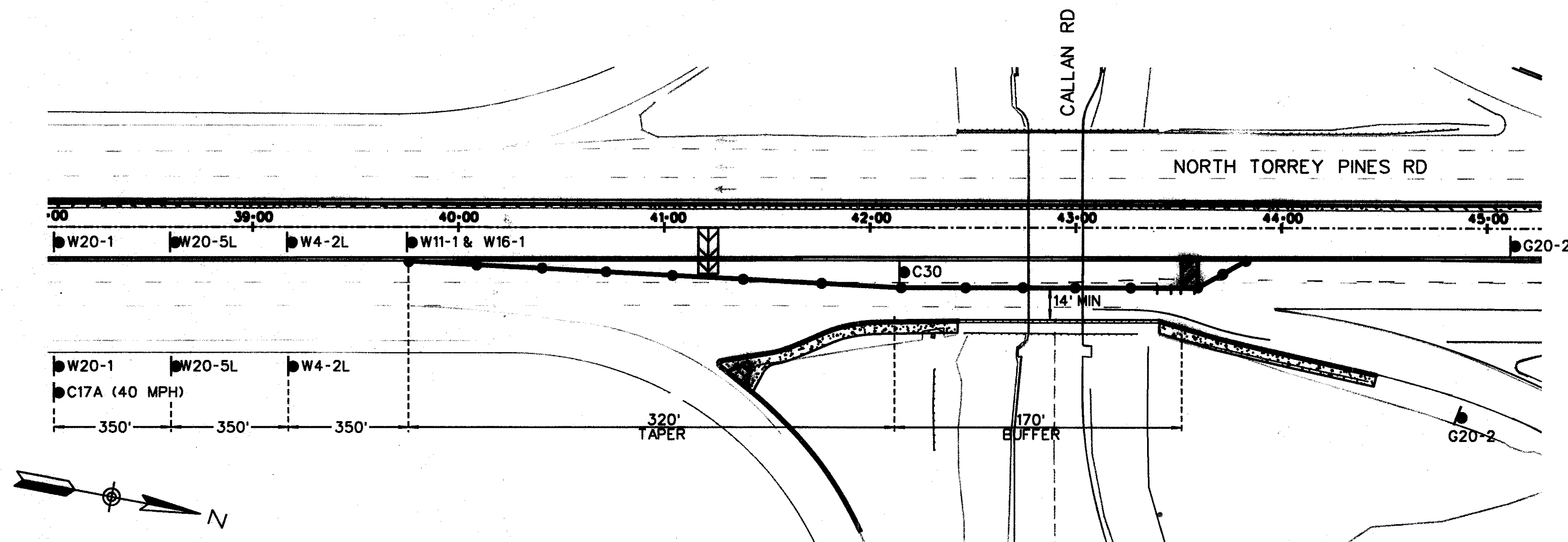
T-13

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF NORTH TORREY PINES ROADWAY AND MEDIAN ENHANCEMENT STATE RESERVE BOUNDARY			
CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T13 OF T17 SHEETS		WBS S-00868	
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER	
DESCRIPTION: ORIGINAL	BY: TCE	APPROVED: DATE: XX/XX	FILED: SABEEN COCHINWALA PROJECT ENGINEER
		266-1695 CDS27 COORDINATE	
		6256407-1906444 CDS83 COORDINATES	
CONTRACTOR: TCE CONSULTANTS	DATE STARTED:	36665-T13-D	
INSPECTOR:	DATE COMPLETED:		



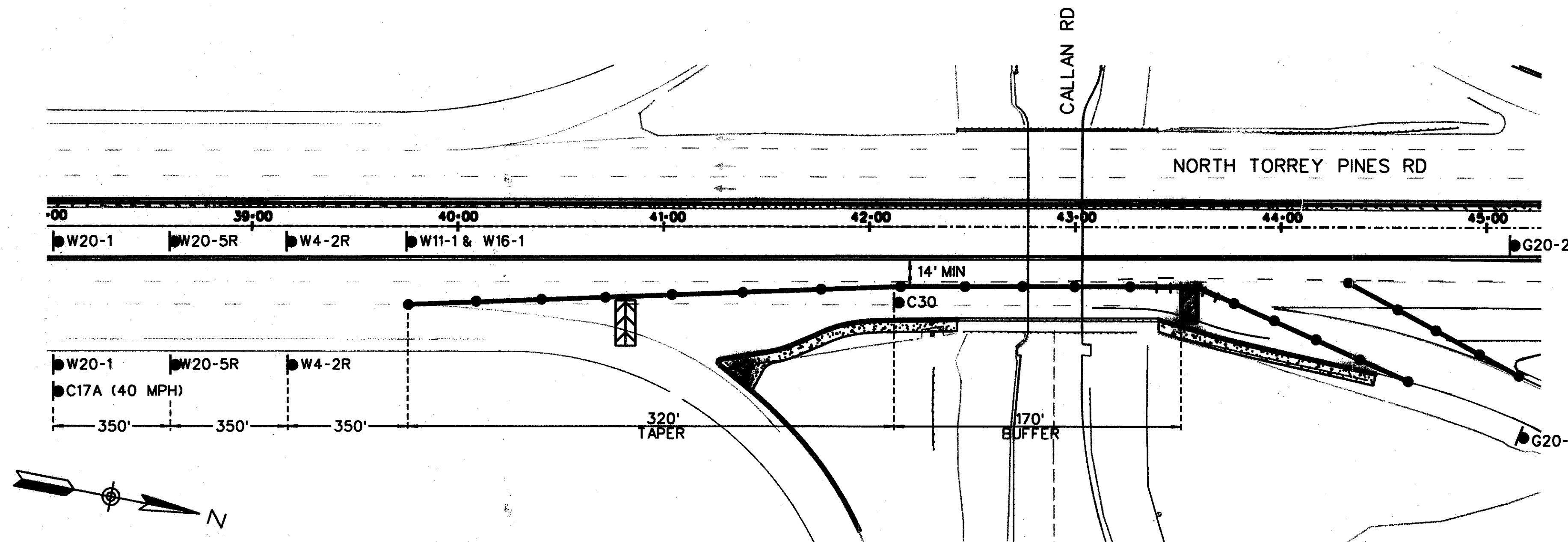
Tran Consulting Engineers
4444 El Cajon Blvd, Suite 15
San Diego, California 92115
619-662-7650, FAX 619-563-7821

APPROVED: *[Signature]*
DATE: 4-15-13



TRAFFIC CONTROL PLAN (PHASE 1)

NORTHBOUND N TORREY PINES RD NEAR CALAN RD
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE AT
 NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

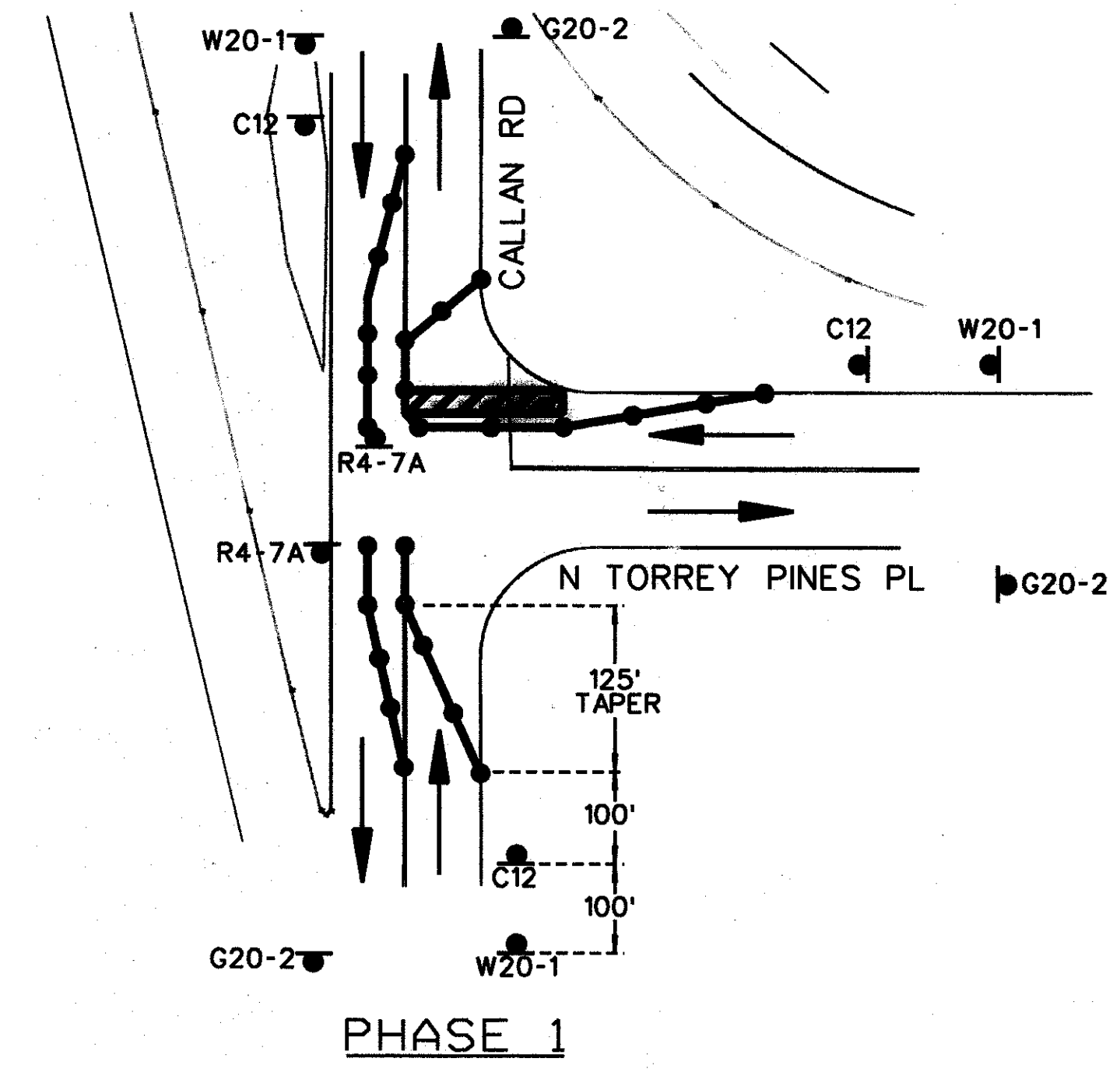


TRAFFIC CONTROL PLAN (PHASE 2)

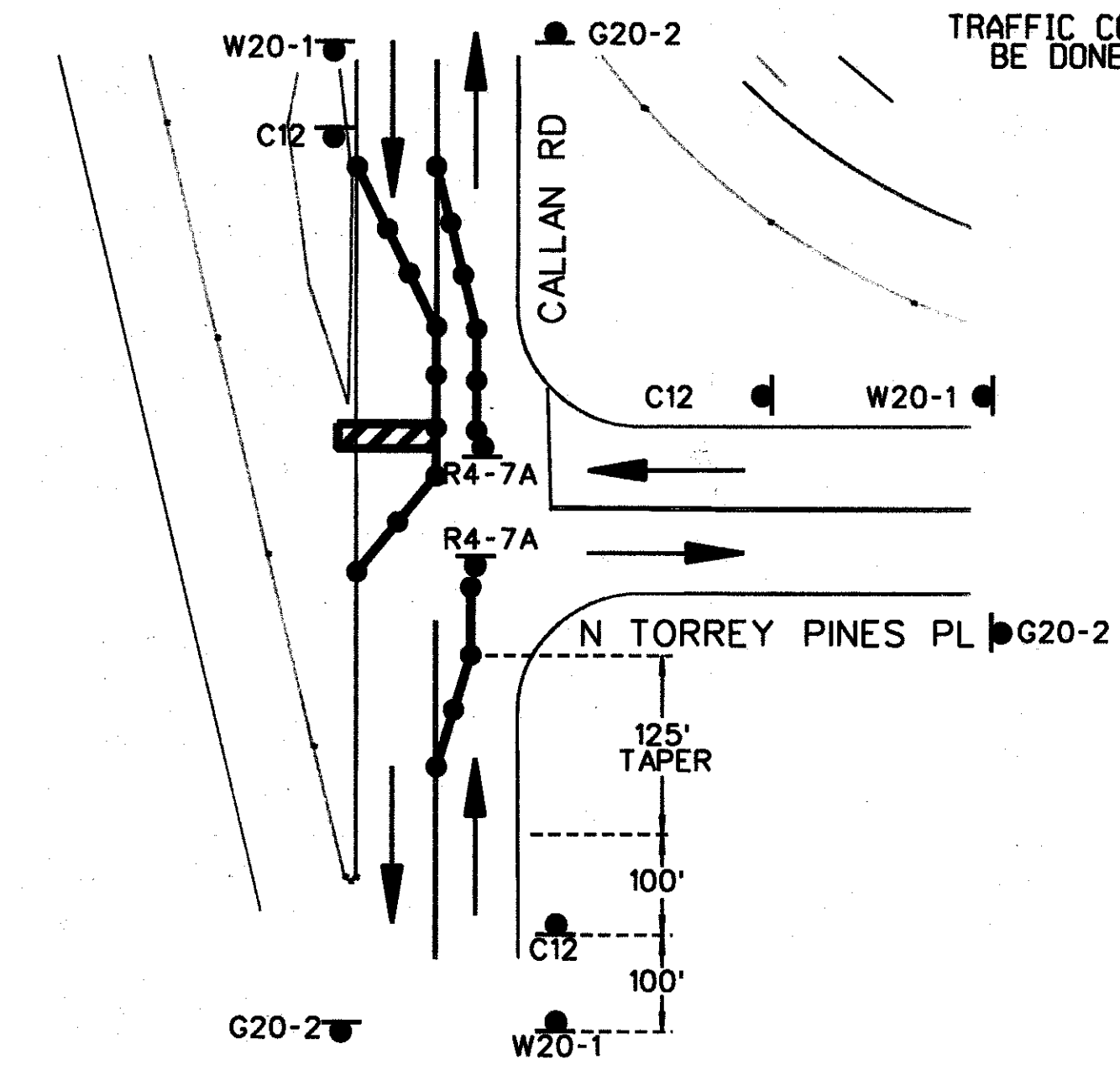
NORTHBOUND N TORREY PINES RD NEAR CALAN RD
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE AT
 NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH	
		DELINEATOR SPACING LENGTH	SIGN SPACING
45	540'	45'	500'
40	320'	40'	350'

N TORREY PINES RD



PHASE 1



PHASE 2

TRAFFIC CONTROL PLAN

CALAN RD AND N TORREY PINES PL
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE AT NIGHT BETWEEN THE HOURS OF
 8:00PM - 5:00AM.

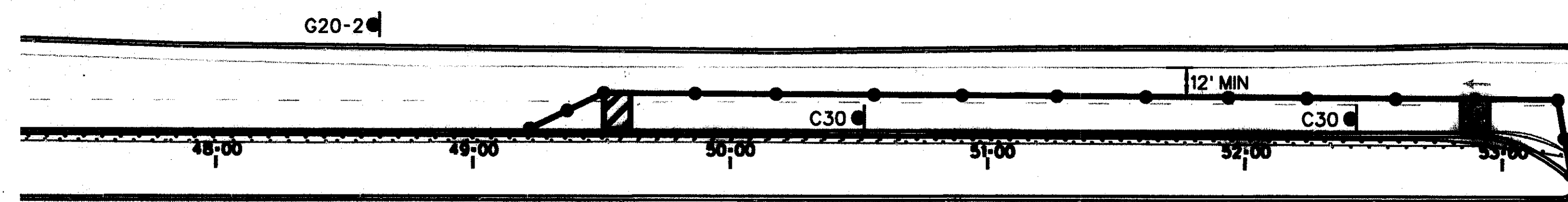
T-14

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T14 OF T17 SHEETS				WBS S-00868
APPROVED: <i>[Signature]</i> 6/11/13 FOR CITY ENGINEER DATE				LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION	BY	APPROVED	DATE	FILMED
ORIGINAL	TCE		XX/XX	
SABEN COCHINWALA PROJECT ENGINEER				266-1695 CCSBY COORDINATE
6256407-1906444 CCSBY COORDINATES				36665-T14-D
CONTRACTOR	DATE STARTED	INSPECTOR	DATE COMPLETED	



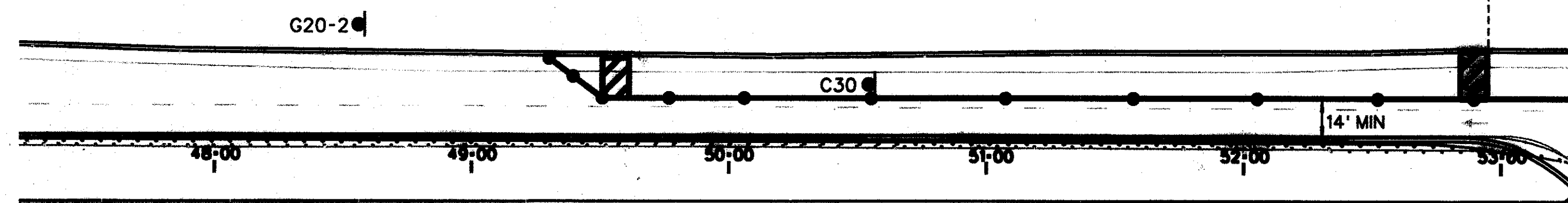
Tran Consulting Engineers
 4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13



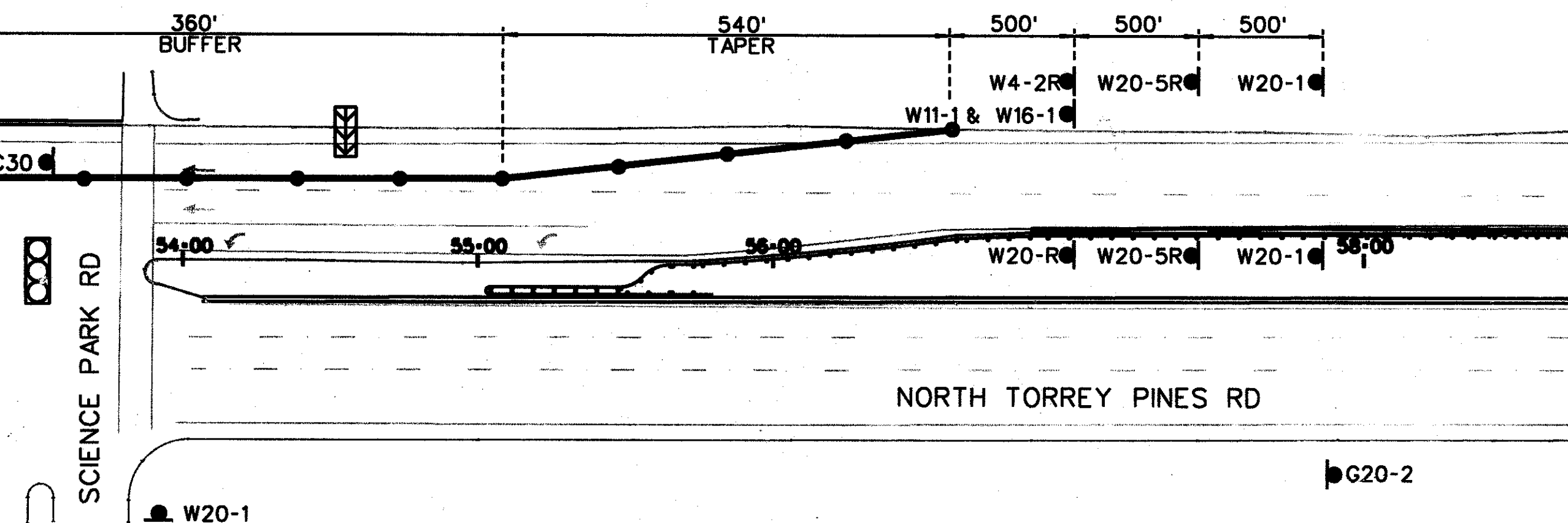
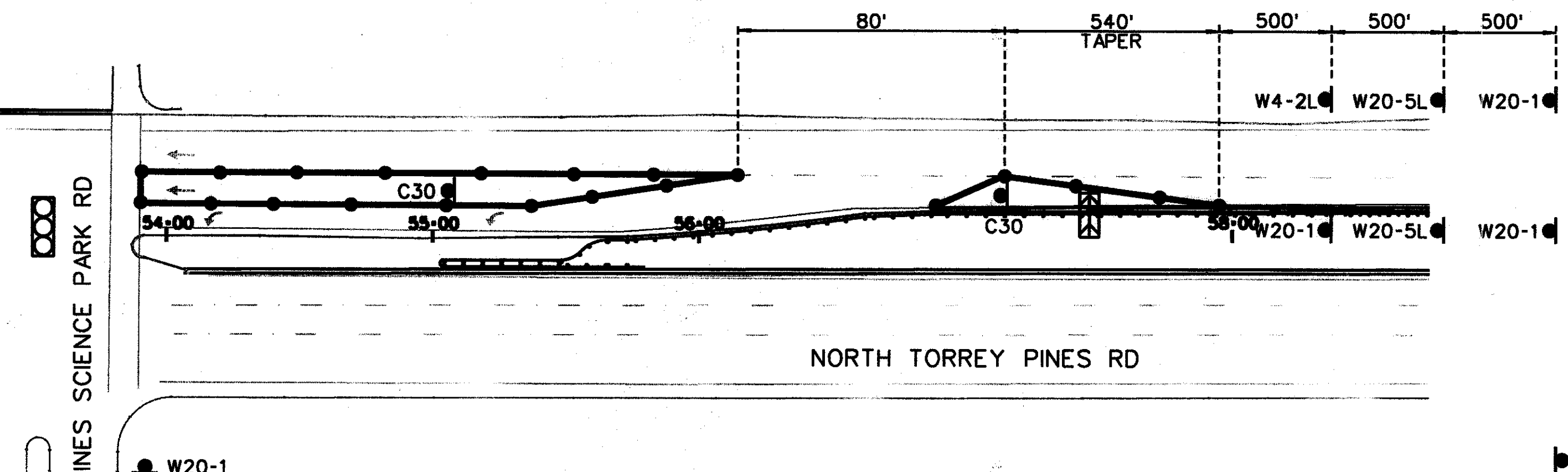
TRAFFIC CONTROL PLAN (PHASE 1)

SOUTHBOUND N TORREY PINES RD NEAR TORREY PINES PARK RD
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE AT
 NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.



TRAFFIC CONTROL PLAN (PHASE 2)

SOUTHBOUND N TORREY PINES RD NEAR TORREY PINES PARK RD
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE AT
 NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.



DELINEATOR AND SIGN SPACING LENGTH			
MPH SPEED	TAPER LENGTH	DELINEATOR SPACING LENGTH	SIGN SPACING
45	540'	TRANSITION	45'
			500'

T-15

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF
 NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT
 STATE RESERVE BOUNDARY

CITY OF SAN DIEGO, CALIFORNIA
 ENGINEERING AND CAPITAL PROJECTS DEPARTMENT
 SHEET T15 OF T17 SHEETS

WBS S-00868

APPROVED: *[Signature]* 6/11/13
 FOR CITY ENGINEER DATE

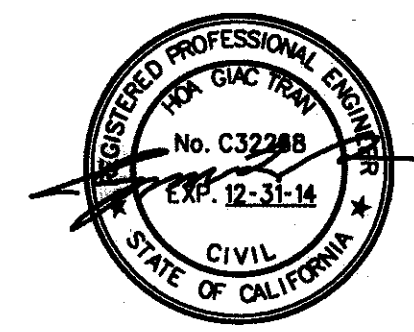
DESIGNED BY: LOUIS SCHULTZ
 PROJECT MANAGER

DESCRIPTION	BY	APPROVED	DATE	FILED
ORIGINAL	TCE	XX/XX		

PROJECT ENGINEER: SABEEN COCHINWALA
 270-1695
 CCS27 COORDINATE
 6256407-1910444
 CCS28 COORDINATES

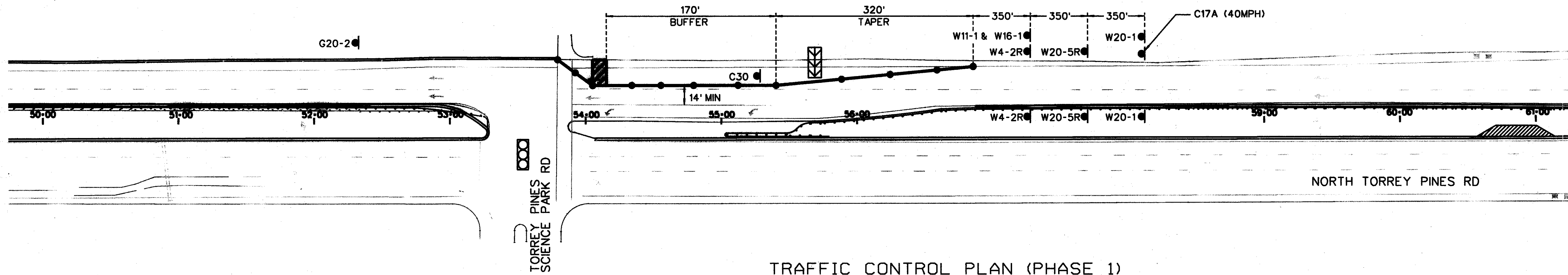
CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

36665-T15-D



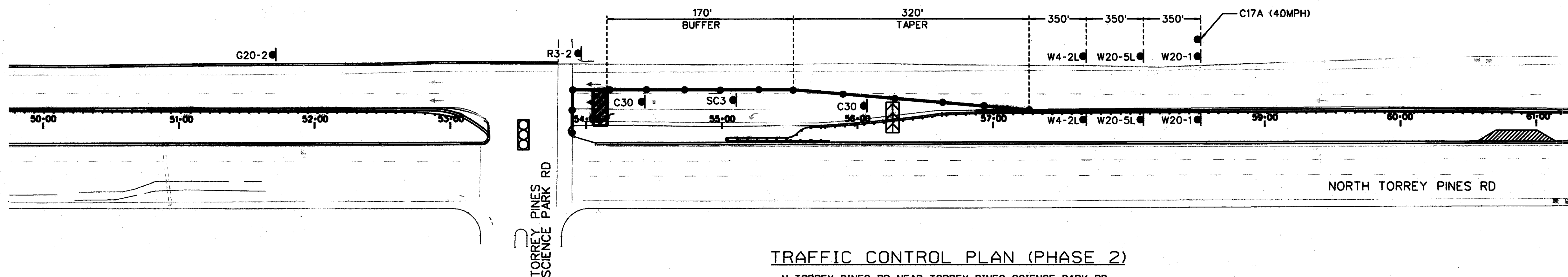
Tran Consulting Engineers
 4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13



TRAFFIC CONTROL PLAN (PHASE 1)

N TORREY PINES RD NEAR TORREY PINES SCIENCE PARK RD
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE AT
 NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

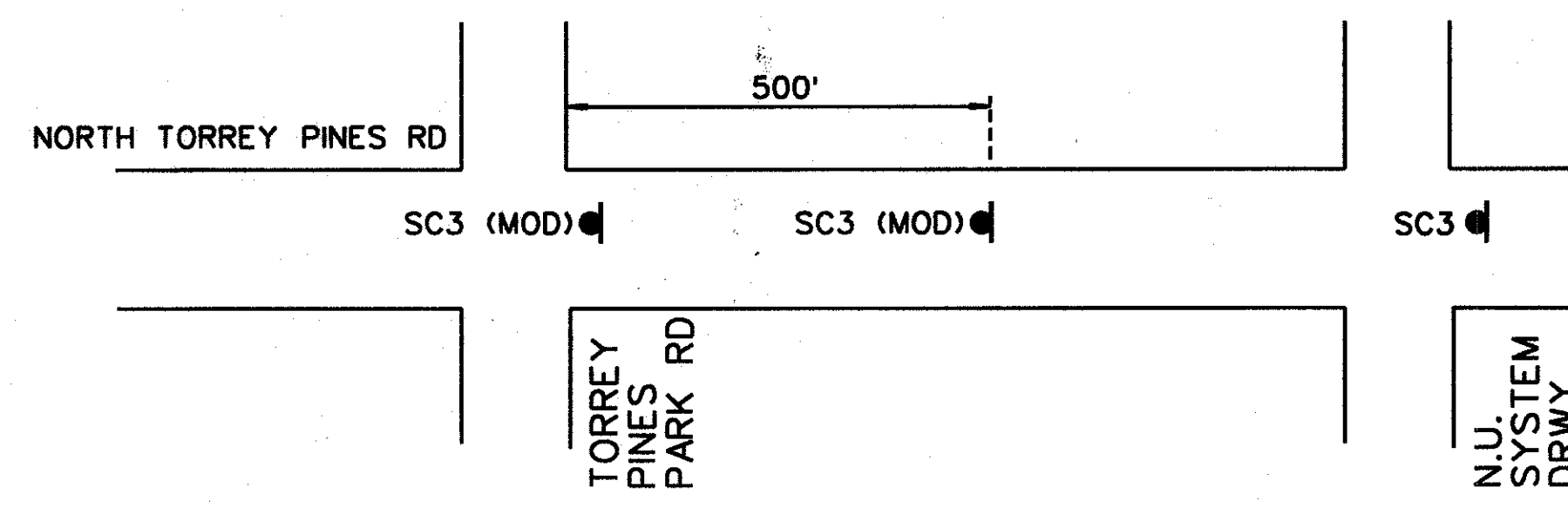


TRAFFIC CONTROL PLAN (PHASE 2)

N TORREY PINES RD NEAR TORREY PINES SCIENCE PARK RD
 TRAFFIC CONTROL AND CONSTRUCTION FOR SHALL BE DONE AT
 NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

N TORREY PINES RD.

MPH SPEED	TAPER LENGTH	DELINEATOR AND SIGN SPACING LENGTH	
		DELINEATOR SPACING LENGTH	SIGN SPACING
45	540'	45'	500'
40	320'	40'	350'



PHASE 2 DETOUR PLAN

T-16

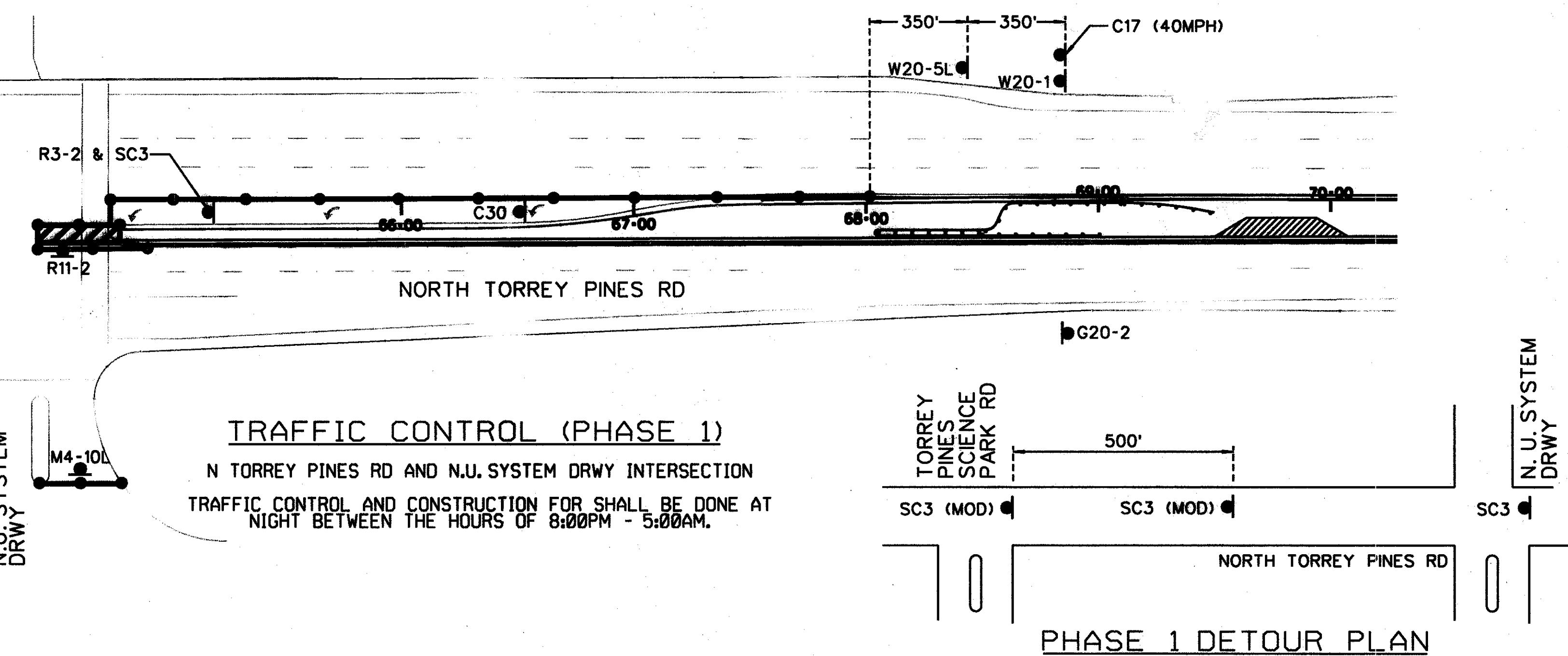
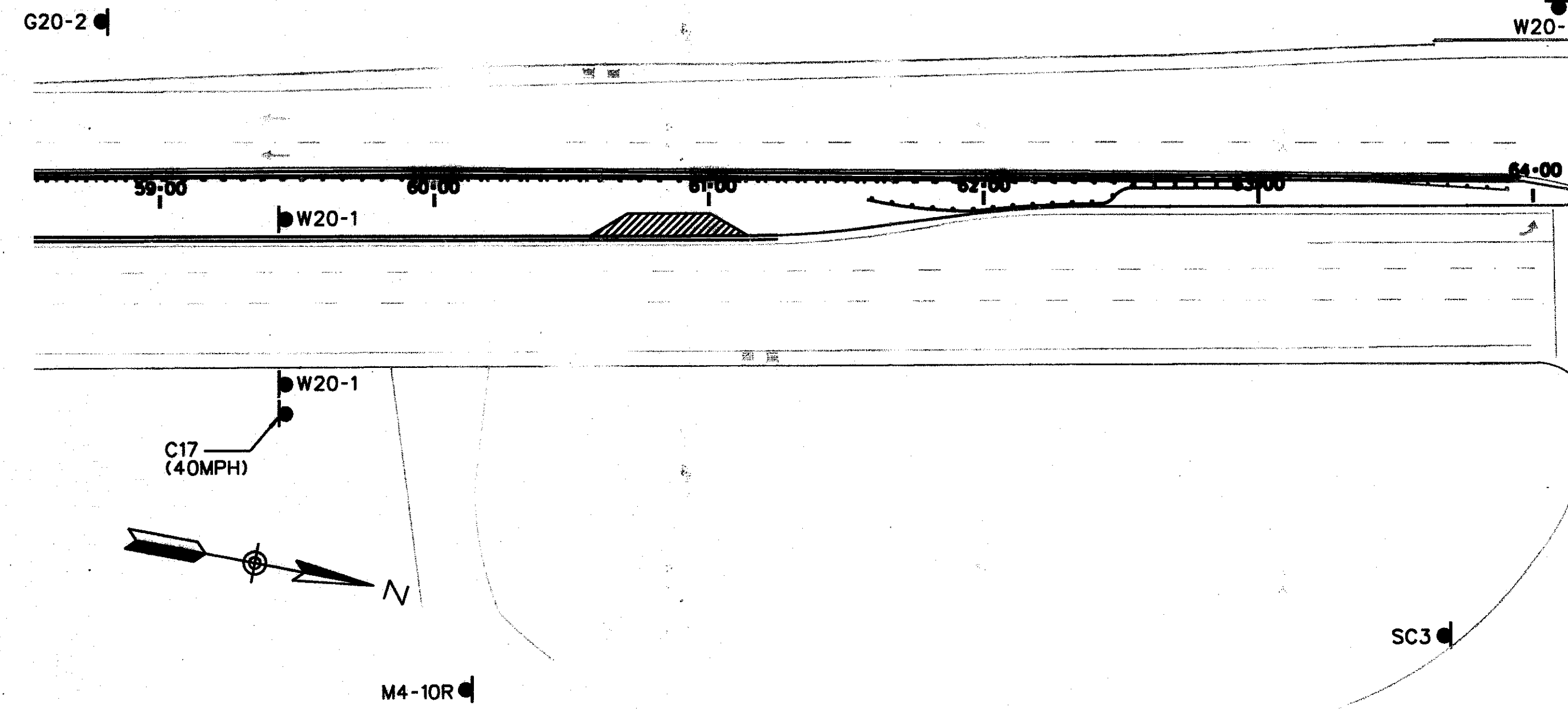
TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF
**NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT
 STATE RESERVE BOUNDARY**

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T16 OF T17 SHEETS		WBS S-00868
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION: ORIGINAL	BY: TCE	APPROVED: DATE: XX/XX
FILMED: <input type="checkbox"/>		SABEEN COCHINWALA PROJECT ENGINEER
CONTRACTOR: _____		DATE STARTED: _____
INSPECTOR: _____		DATE COMPLETED: _____
6256407-1910444 CCSB3 COORDINATES		36665-T16-D



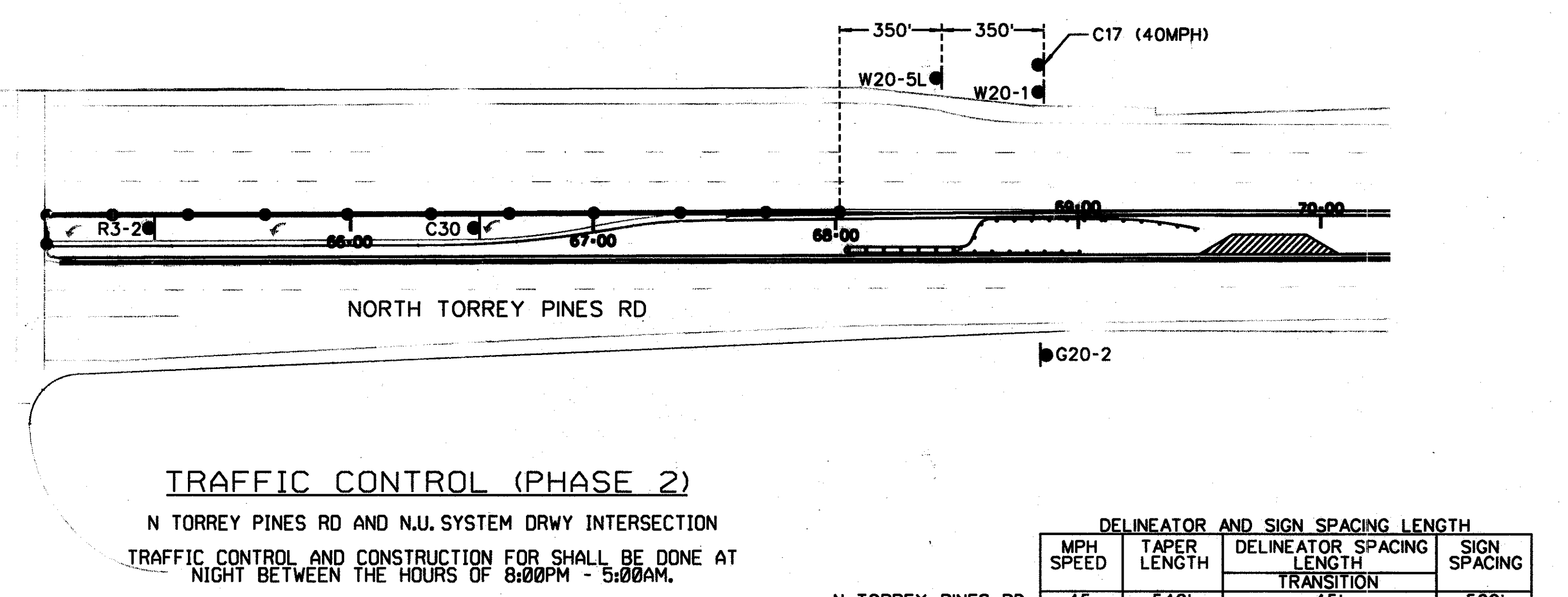
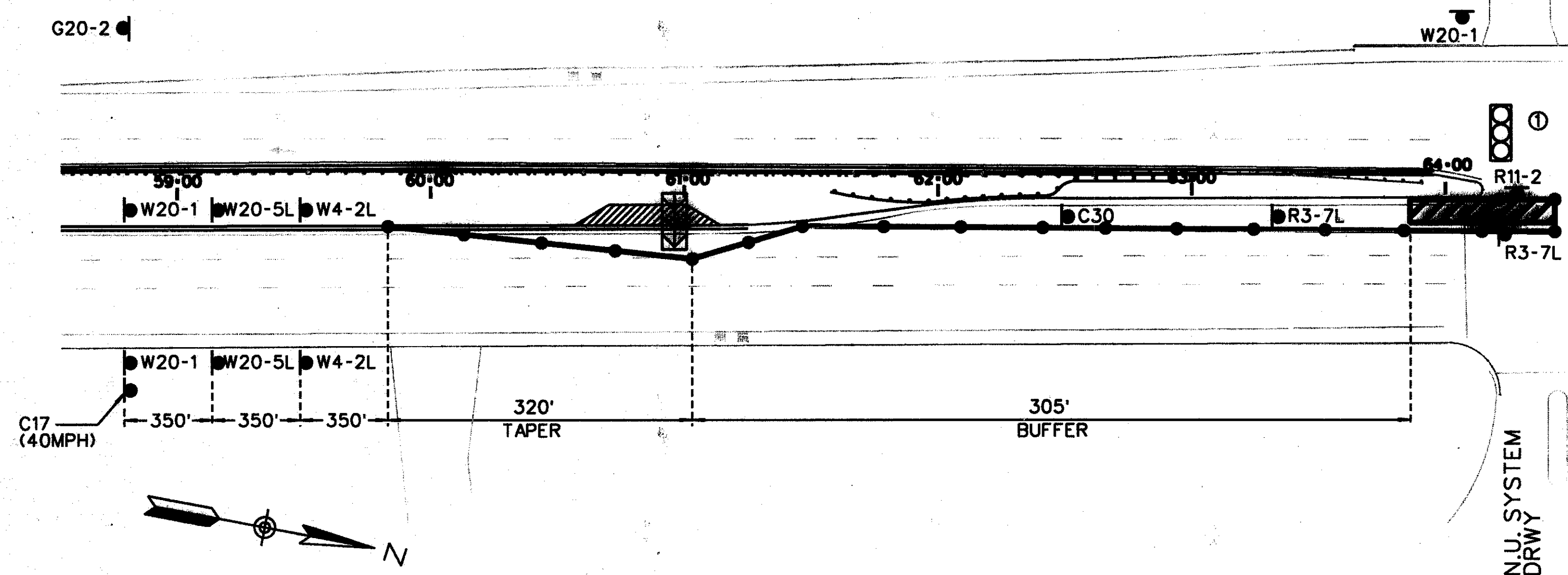
Tran Consulting Engineers
 4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-562-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13



TRAFFIC CONTROL (PHASE 1)
 N TORREY PINES RD AND N.U. SYSTEM DRWY INTERSECTION
 TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

PHASE 1 DETOUR PLAN



TRAFFIC CONTROL (PHASE 2)
 N TORREY PINES RD AND N.U. SYSTEM DRWY INTERSECTION
 TRAFFIC CONTROL AND CONSTRUCTION SHALL BE DONE AT NIGHT BETWEEN THE HOURS OF 8:00PM - 5:00AM.

DELINEATOR AND SIGN SPACING LENGTH

MPH SPEED	TAPER LENGTH	DELINEATOR LENGTH	DELINEATOR SPACING	SIGN SPACING
45	540'	45'	TRANSITION	500'
40	320'	40'		350'

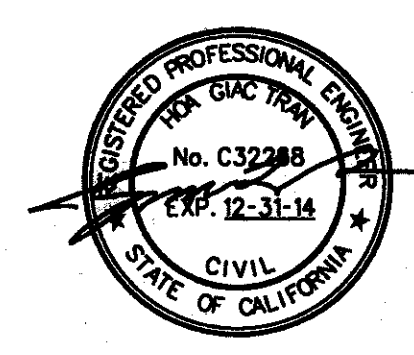
NOTES:
 ① THE TRAFFIC SIGNAL IN THE INTERSECTION BETWEEN N TORREY PINES RD AND N.U. SYSTEM DRWY SHALL USE A TIMER SYSTEM INSTEAD OF THE CURRENT SENSOR SYSTEM, DURING PHASE 2 TRAFFIC CONTROL.

T-17

TRAFFIC CONTROL PLANS FOR THE CONSTRUCTION OF
 NORTH TORREY PINES ROADWAY
 AND MEDIAN ENHANCEMENT
 STATE RESERVE BOUNDARY

CITY OF SAN DIEGO, CALIFORNIA ENGINEERING AND CAPITAL PROJECTS DEPARTMENT SHEET T17 OF T17 SHEETS		WBS S-00868
APPROVED: <i>[Signature]</i> FOR CITY ENGINEER	DATE: 6/11/13	SUBMITTED BY: LOUIS SCHULTZ PROJECT MANAGER
DESCRIPTION	BY	APPROVED
ORIGINAL	TCE	XX/XX
DATE		FILED
CONTRACTOR		DATE STARTED
INSPECTOR		DATE COMPLETED

270-1695
 CC827 COORDINATE
 6256407-1910444
 CC883 COORDINATES
 36665-T17-D



Tran Consulting Engineers
 4444 El Cajon Blvd, Suite 15
 San Diego, California 92115
 619-662-7650, FAX 619-563-7821

APPROVED: *[Signature]*
 DATE: 4-15-13