

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION**

2375 Northside Drive, Suite. 100, San Diego, CA 92108  
Phone (619) 516-1990 • Fax (619) 516-1994  
<http://www.waterboards.ca.gov/sandiego/>

Clean Water Act Section 401 Water Quality Certification  
and Waste Discharge Requirements  
for Discharge of Dredged and/or Fill Materials

**PROJECT: eTS 35909 Ramona West and East Access Road  
Repair Crossings  
Certification Number R9-2018-0016  
WDID: 9000003258**

Reg. Meas. ID: 418732 Place ID: 843743 Party ID: 551836 Person ID: 506039
--

**APPLICANT: San Diego Gas & Electric Company  
8315 Century Park Court – CP21E  
San Diego, CA 92123**

**ACTION:**

<input checked="" type="checkbox"/> Order for Low Impact Certification	<input type="checkbox"/> Order for Denial of Certification
<input type="checkbox"/> Order for Technically-conditioned Certification	<input type="checkbox"/> Waiver of Waste Discharge Requirements
<input checked="" type="checkbox"/> Enrollment in SWRCB GWDR Order No. 2003-017-DWQ	<input type="checkbox"/> Enrollment in Isolated Waters Order No. 2004-004-DWQ

**PROJECT DESCRIPTION**

An application dated January 2, 2018 was submitted by San Diego Gas & Electric (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (33 U.S.C. § 1341) for the proposed **eTS 35909 Ramona West and East Access Road Repair Crossing** Project (Project). The Applicant has also applied for Clean Water Act section 404 Nationwide Permit No. 12 (Non-Notifying) from the United States Army Corps of Engineers for the Project.

The Project consists of the repairs and installation of two crossings to an existing unpaved power line maintenance access road outside of Ramona, California. The Project's center reading are as follows:

- Western Crossing, latitude 33.031786, longitude -116.781027
- Eastern Crossing, latitude 33.032402, longitude -116.779204

The Applicant has paid all required fees for this Certification in the amount of \$1,500.00. On May 7, 2018, the San Diego Water Board provided public notice of the Project application pursuant to California Code of Regulations, title 23, section 3858 by posting information describing the Project on the San Diego Water Board's web site and providing a period of twenty-one days for public review and comment. No comments were received.

The purpose of this Project is to repair and improve two sections of an existing unpaved transmission line access road which has experienced erosion where two intermittent tributaries to San Vicente Creek cross the access road. Currently, storm water flows are eroding the road where it flows over three low points in the road. At the Eastern Crossing, the Applicant proposes to install an at grade paved Arizona Crossing that is approximately 35 feet long with ungrouted riprap placed on both sides to reduce water velocity and protect against scour. The Western Crossing has two drainages that cross the access road in close proximity. The Applicant proposes to install two 36-inch reinforced concrete pipes (RCP) with headwalls at the inlet and outlet and one 24-inch RCP with headwalls and wingwalls at the inlet and outlet. Ungrouted riprap will be placed on the downstream side at both outlets for energy dissipation. All equipment will remain on the existing access roads and equipment and materials will be staged on the access road. Duration of construction time is estimated to be six to eight weeks.

Receiving waters potentially affected by the Project are protected in accordance with water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan). This Certification authorizes permanent and temporary impacts to waters of the United States and/or State affected by the Project and requires compensatory mitigation to offset adverse impacts as described in section VI of the Certification. The temporary impacts will be restored by the Applicant to pre-Project conditions and do not include physical loss of aquatic resource area or degradation of ecological conditions. Compensatory mitigation to offset the permanent loss of jurisdictional waters will be achieved through the Applicant's purchase of mitigation bank credits from the San Luis Rey Mitigation Bank (Bank) in advance of Project construction. Mitigation credit parcels, purchased from the Bank to satisfy compensatory mitigation requirements, are required to be protected, monitored, and maintained in perpetuity by the Bank pursuant to a federal and State approved bank enabling instrument and a recorded conservation easement. Based on all of these considerations, the Applicant's compliance with the terms and conditions of this Certification will ensure that the water quality standards for all waters of the United States and/or State impacted by the Project are met.

## TABLE OF CONTENTS

I.	STANDARD CONDITIONS.....	4
II.	GENERAL CONDITIONS .....	4
III.	CONSTRUCTON AND POST CONSTRUCTON BEST MANAGEMENT PRACTICES.....	7
IV.	PROJECT IMPACTS AND COMPENSATORY MITIGATION.....	7
V.	MONITORING AND REPORTING REQUIREMENTS .....	9
VI.	NOTIFICATION REQUIREMENTS .....	11
VII.	CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE .....	12
VIII.	SAN DIEGO WATER BOARD CONTACT PERSON .....	12
IX.	WATER QUALITY CERTIFICATION.....	12

### Attachments:

1. Definitions
2. Project Figures and Plans

The San Diego Water Board has independently reviewed the record of the Project to analyze the extent and nature of proposed Project impacts to the water quality and beneficial uses of waters of the United States and/or State and associated compensatory mitigation required to offset impacts attributed to the Project. In accordance with this Certification, the Applicant may proceed with the Project under the following terms and conditions:

## I. STANDARD CONDITIONS

Pursuant to section 3860 of title 23 of the California Code of Regulations, the following three standard conditions apply to all water quality certification actions:

- A. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the Water Code and chapter 28, article 6 (commencing with title 23, section 3867), of the California Code of Regulations.
- B. This Certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to California Code of Regulations title 23, section 3855 subdivision (b), and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- C. This Certification action is conditioned upon total payment of any fee required under title 23, chapter 28 (commencing with section 3830) of California Code of Regulations and owed by the applicant.

## II. GENERAL CONDITIONS

- A. **Term of Certification.** Water Quality Certification No. R9-2018-0016 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 U.S.C. §1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

[http://www.waterboards.ca.gov/water\\_issues/programs/cwa401/docs/generalorders/gowdr401regulated\\_projects.pdf](http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/gowdr401regulated_projects.pdf)

- D. Project Conformance with Application.** All water quality protection measures and BMPs described in the application and supplemental information for water quality certification are incorporated by reference into this Certification as if fully stated herein. Notwithstanding any more specific conditions in this Certification, the Applicant shall construct, implement and comply with all water quality protection measures and BMPs described in the application and supplemental information. The conditions within this Certification shall supersede conflicting provisions within the application and supplemental information submitted as part of this Certification action.
- E. Project Conformance with Water Quality Control Plans or Policies.** Notwithstanding any more specific conditions in this Certification, the Project shall be constructed in a manner consistent with the Basin Plan and any other applicable water quality control plans or policies adopted or approved pursuant to the Porter Cologne Water Quality Act (Division 7, commencing with Water Code Section 13000) or section 303 of the Clean Water Act (33 U.S.C §1313.). The Basin Plan is accessible on-line at:
- [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)
- F. Project Modification.** The Applicant must submit any changes to the Project, including Project operation, which would have a significant or material effect on the findings, conclusions, or conditions of this Certification, to the San Diego Water for prior review and written approval. If the San Diego Water Board is not notified of a significant change to the Project, it will be considered a violation of this Certification
- G. Certification Distribution Posting.** During Project construction, the Applicant must maintain a copy of this Certification at the Project site. This Certification must be available at all times to site personnel and agencies. A copy of this Certification shall also be provided to any contractor or subcontractor performing construction work, and the copy shall remain in their possession at the Project site.
- H. Inspection and Entry.** The Applicant must allow the San Diego Water Board or the State Water Resources Control Board, and/or their authorized representative(s) (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents as may be required under law, to:
1. Enter upon the Project or Compensatory Mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Certification;
  2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Certification;
  3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and

4. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance, or as otherwise authorized by the Clean Water Act or Water Code, any substances or parameters at any location.
- I. **Enforcement Notification.** In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
  - J. **Certification Actions.** This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:
    1. Violation of any term or condition of this Certification;
    2. Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of the unnamed tributary to San Vicente Creek or their tributaries;
    3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
    4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
    5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

The filing of a request by the Applicant for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Certification condition.
  - K. **Duty to Provide Information.** The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.
  - L. **Property Rights.** This Certification does not convey any property rights of any sort, or any exclusive privilege.
  - M. **Petitions.** Any person aggrieved by this action of the San Diego Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with the California Code of Regulations, title 23, sections 3867 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after

the date of this Certification. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: [http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

### III. CONSTRUCTION AND POST CONSTRUCTION BEST MANAGEMENT PRACTICES

- A. **Construction Requirements.** Prior to start of Project construction, the Applicant must, as applicable, obtain coverage under, and comply with, the requirements of State Water Resources Control Board Water Quality Order No. 2009-0009-DWQ, the General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activity (General Construction Storm Water Permit) and any reissuance. If Project construction activities do not require coverage under the General Construction Storm Water Permit, the Applicant must develop and implement a pollution control plan, construction BMP plan, and/or erosion and sediment control plan to prevent the discharge of sediment and other pollutants during construction activities.
- B. **Post-Construction Requirements.** The Project must meet all the Post-Construction requirements of the San Diego Water Board Order No. R9-2013-0001 (and amendments) National Pollutant Discharge Elimination Systems Permit and Waste Discharge Requirements for Discharges from the Municipal Separate Storm Sewer Systems (MS4) Draining the Watersheds within the San Diego Region (Regional MS4 Permit).

### IV. PROJECT IMPACTS AND COMPENSATORY MITIGATION

- A. **Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to an unnamed tributary to San Vicente Creek within the San Dieguito Watershed must not exceed the type and magnitude of impacts described in the table below. At a minimum, compensatory mitigation required to offset unavoidable temporary and permanent Project impacts to waters of the United States and/or State must be achieved as described in the table below:

	Impacts (acres)	Impacts (linear ft.)	Mitigation for Impacts (acres)	Mitigation Ratio (area mitigated :area impacted)	Mitigation for Impacts (linear ft.)	Mitigation Ratio (linear feet mitigated :linear feet impacted)
<b>Permanent Impacts</b>						
Streambed	0.025	78	0.05 Re-establishment <sup>1</sup>	2:1	NA <sup>2</sup>	NA <sup>2</sup>
<b>Temporary Impacts</b>						
Streambed <sup>3</sup>	0.014	91				

NA – Not applicable

1. Project compensatory mitigation re-establishment credits will be purchased from the San Luis Rey Mitigation Bank, Oceanside, CA.
2. Compensatory mitigation is being provided in a contiguous area at the San Luis Rey Mitigation Bank (approximately 55.8 acres); therefore, compensatory mitigation for linear feet is not being calculated on a project by project basis.
3. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native species.

**B. Mitigation Credit Purchase.** Prior to the start of construction, the Applicant must provide documentation to the San Diego Water Board verifying the purchase of at least 0.050 acre of credit applicable to the establishment and/or re-establishment of wetland waters of the U.S. and/or State from the San Luis Rey Mitigation Bank. The use of an alternate mitigation bank to provide required compensatory mitigation must be approved by the San Diego Water Board before the credits are secured and is subject to the following conditions:

1. The Applicant must identify the USACE approved mitigation bank and submit documentation demonstrating that:
  - a. The permitted Project impacts are located within the service area of the mitigation bank; and
  - b. The mitigation bank has the appropriate number and resource type of credits available.
2. If San Diego Water Board approval of the use of the alternate mitigation bank is obtained, the Applicant must provide documentation verifying that the appropriate number and resource type of credits have been secured from the mitigation bank prior to the start of construction.

**C. Temporary Project Impact Areas.** The Applicant must restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge of pollutants to waters of the United States and/or State. Restoration must include grading of disturbed areas to pre-project contours and re-vegetation with native species. The Applicant must implement all necessary BMPs to control erosion and runoff from areas associated with the Project.



## V. MONITORING AND REPORTING REQUIREMENTS

- A. **Annual Project Progress Reports.** The Applicant must submit annual Project progress reports describing compliance with all requirements of this Certification to the San Diego Water Board prior to **May 1** of each year following the issuance of this Certification, until the Project has reached completion. The report must include the following information:
1. The names, qualifications, and affiliations of the persons contributing to the report;
  2. The status, progress, and anticipated schedule for completion of Project construction activities;
  3. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion; and
  4. A description of each incident of noncompliance during the annual monitoring period and its cause, the period of the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- B. **Final Project Completion Report.** The Applicant must submit a Final Project Completion Report to the San Diego Water Board **within 30 days of completion** of the Project. The final report must include the following information:
1. Date of construction initiation;
  2. Date of construction completion;
  3. As-built drawings of the Project, no bigger than 11"X17"; and
  4. Photo documentation of implemented post-construction BMPs and all areas of permanent and temporary impacts, prior to and after project construction. Photo documentation must be conducted in accordance with guidelines posted at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/401\\_certification/docs/401c/401PhotoDocRB9V713.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/401_certification/docs/401c/401PhotoDocRB9V713.pdf). In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced.
- C. **Reporting Authority.** The submittal of information required under this Certification, or in response to a suspected violation of any condition of this Certification, is required pursuant to Water Code section 13267 and 13383. Civil liability may be administratively imposed by the San Diego Water Board for failure to submit information pursuant to Water Code sections 13268 or 13385.
- D. **Electronic Document Submittal.** The Applicant must submit all reports and information required under this Certification in electronic format via e-mail to

[SanDiego@waterboards.ca.gov](mailto:SanDiego@waterboards.ca.gov). Documents over 50 megabytes will not be accepted via e-mail and must be placed on a disc and delivered to:

California Regional Water Quality Control Board  
San Diego Region  
Attn: 401 Certification No. R9-2018-0016:843743:amonji  
2375 Northside Drive, Suite 100  
San Diego, California 92108

Each electronic document must be submitted as a single file, in Portable Document Format (PDF), and converted to text searchable format using Optical Character Recognition (OCR). All electronic documents must include scanned copies of all signature pages; electronic signatures will not be accepted. Electronic documents submitted to the San Diego Water Board must include the following identification numbers in the header or subject line: Certification No. R9-2018-0016:843743:amonji.

**E. Document Signatory Requirements.** All applications, reports, or information submitted to the San Diego Water Board must be signed as follows:

1. For a corporation, by a responsible corporate officer of at least the level of vice president.
2. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
3. For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
4. A duly authorized representative may sign applications, reports, or information if:
  - a. The authorization is made in writing by a person described above.
  - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
  - c. The written authorization is submitted to the San Diego Water Board Executive Officer.

If such authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the Project, a new authorization satisfying the above requirements must be submitted to the San Diego Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative.

**F. Document Certification Requirements.** All applications, reports, or information submitted to the San Diego Water Board must be certified as follows:

*"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."*

## VI. NOTIFICATION REQUIREMENTS

- A. **Twenty Four Hour Non-Compliance Reporting.** The Applicant shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the San Diego Water Board within **24 hours** from the time the Applicant becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Applicant becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The San Diego Water Board, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
- B. **Anticipated Noncompliance.** The Applicant shall give advance notice to the San Diego Water Board of any planned changes in the Project or the Compensatory Mitigation project which may result in noncompliance with Certification conditions or requirements.
- C. **Transfers.** This Certification is not transferable in its entirety or in part to any person or organization except after notice to the San Diego Water Board in accordance with the following terms:
1. **Transfer of Property Ownership:** The Applicant must notify the San Diego Water Board of any change in ownership of the Project area. Notification of change in ownership must include, but not be limited to, a statement that the Applicant has provided the purchaser with a copy of the Section 401 Water Quality Certification and that the purchaser understands and accepts the certification requirements and the obligation to implement them or be subject to liability for failure to do so; the seller and purchaser must sign and date the notification and provide such notification to the San Diego Water Board **within 10 days of the transfer of ownership.**
  2. **Transfer of Mitigation Responsibility:** Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in this Certification must include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the San Diego Water Board **within 10 days of the transfer date.**

3. **Transfer of Post-Construction BMP Maintenance Responsibility:** The Applicant assumes responsibility for the inspection and maintenance of all post-construction structural BMPs until such responsibility is legally transferred to another entity. At the time maintenance responsibility for post-construction BMPs is legally transferred the Applicant must submit to the San Diego Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer specifications. The Applicant must provide such notification to the San Diego Water Board within **10 days** of the transfer of BMP maintenance responsibility.

Upon properly noticed transfers of responsibility, the transferee assumes responsibility for compliance with this Certification and references in this Certification to the Applicant will be interpreted to refer to the transferee as appropriate. Transfer of responsibility does not necessarily relieve the Applicant of this Certification in the event that a transferee fails to comply.

- D. **Discharge Commencement.** The Applicant must notify the San Diego Water Board in writing **at least 5 days prior to** the start of Project construction.

## VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The Regional Water Quality Control Board is the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000, et seq.) section 21067, and CEQA Guidelines (California Code of Regulations, title 14, section 15000 et seq.) section 15367, and has filed a Notice of Exemption dated July 18, 2018 for the eTS 35909 Ramona West and East Access Road Repair Crossing Project. The Lead Agency has determined the Project will have a significant effect on the environment and mitigation measures were made a condition of the Project.
- B. The San Diego Water Board has required mitigation measures as a condition of this Certification to avoid or reduce the environmental effects of the Project to resources within the Board's purview to a less than significant level.

## VIII. SAN DIEGO WATER BOARD CONTACT PERSON

Alan Monji, Environmental Scientist  
Telephone: 619-521-3968  
Email: [Alan.Monji@waterboards.ca.gov](mailto:Alan.Monji@waterboards.ca.gov)

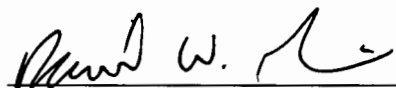
## IX. WATER QUALITY CERTIFICATION

**I hereby certify that the proposed discharge from the eTS 35909 Ramona West and East Access Road Repair Crossing Project** (Certification No. R9-2018-0016) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "*Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General*

WDRs),” which requires compliance with all conditions of this Water Quality Certification. Please note that enrollment under Order No. 2003-017-DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the San Diego Water Board may issue individual waste discharge requirements at that time.

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited to, and all proposed mitigation being completed in strict compliance with, the applicants’ Project description and/or the description in this Certification, and (b) compliance with all applicable requirements of the Basin Plan.

I, David W. Gibson, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Certification No. R9-2018-0016 issued on July 18, 2018.



\_\_\_\_\_  
DAVID W. GIBSON  
Executive Officer  
San Diego Water Board

18 July 2018  
Date

# ATTACHMENT 1

## DEFINITIONS

**Activity** - when used in reference to a permit means any action, undertaking, or project including, but not limited to, construction, operation, maintenance, repair, modification, and restoration which may result in any discharge to waters of the state.

**Buffer** - means an upland, wetland, and/or riparian area that protects and/or enhances aquatic resource functions associated with wetlands, rivers, streams, lakes, marine, and estuarine systems from disturbances associated with adjacent land uses.

**California Rapid Assessment Method (CRAM)** - is a wetland assessment method intended to provide a rapid, scientifically-defensible and repeatable assessment methodology to monitor status and trends in the conditions of wetlands for applications throughout the state. It can also be used to assess the performance of compensatory mitigation projects and restoration projects. CRAM provides an assessment of overall ecological condition in terms of four attributes: landscape context and buffer, hydrology, physical structure and biotic structure. CRAM also includes an assessment of key stressors that may be affecting wetland condition and a "field to PC" data management tool (eCRAM) to ensure consistency and quality of data produced with the method.

**Compensatory Mitigation Project** - means compensatory mitigation implemented by the Applicant as a requirement of this Certification (i.e., applicant -responsible mitigation), or by a mitigation bank or an in-lieu fee program.

**Discharge of dredged material** – means any addition of dredged material into, including redeposit of dredged material other than incidental fallback within, the waters of the United States and/or State.

**Discharge of fill material** – means the addition of fill material into waters of the United States and/or State.

**Dredged material** – means material that is excavated or dredged from waters of the United States and/or State.

**Ecological Success Performance Standards** – means observable or measurable physical (including hydrological), chemical, and/or biological attributes that are used to determine if a compensatory mitigation project meets its objectives.

**Enhancement** – means the manipulation of the physical, chemical, or biological characteristics of an aquatic resource to improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

**Establishment** – means the manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist. Creation results in a gain in aquatic resource area.

**Fill material** – means any material used for the primary purpose of replacing an aquatic area with dry land or of changing the bottom elevation of a water body.

**Isolated wetland** – means a wetland with no surface water connection to other aquatic resources.

**Mitigation Bank** – means a site, or suite of sites, where resources (e.g., wetlands, streams, riparian areas) are restored, established, enhanced, and/or preserved for the purpose of providing mitigation for impacts authorized by this Certification.

**Preservation** - means the removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

**Re-establishment** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/ historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

**Rehabilitation** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/ historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

**Restoration** - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

**Start of Project Construction** - For the purpose of this Certification, "start of Project construction" means to engage in a program of on-site construction, including site clearing, grading, dredging, landfilling, changing equipment, substituting equipment, or even moving the location of equipment specifically designed for a stationary source in preparation for the fabrication, erection or installation of the building components of the stationary source within waters of the United States and/or State.

**Uplands** - means non-wetland areas that lack any field-based indicators of wetlands or other aquatic conditions. Uplands are generally well-drained and occur above (i.e., up-slope) from nearby aquatic areas. Wetlands can, however, be entirely surrounded by uplands. For example, some natural seeps and constructed stock ponds lack aboveground hydrological connection to other aquatic areas. In the watershed context, uplands comprise the landscape matrix in which aquatic areas form. They are the primary sources of sediment, surface runoff, and associated chemicals that are deposited in aquatic areas or transported through them.

**Water quality objectives and other appropriate requirements of state law** – means the water quality objectives and beneficial uses as specified in the appropriate water quality control plan(s); the applicable provisions of sections 301, 302, 303, 306, and 307 of the Clean Water Act; and any other appropriate requirement of state law.





San Diego Gas & Electric  
eTS 35909 Ramona West and East Crossings  
Certification No. R9-2018-0016

## **ATTACHMENT 2**

### **LOCATION MAPS and FIGURES**

1. SDG&E Ramona Crossings, Z416618, Ramona Crossings Plans, Sheets 1-5.

# SDG&E RAMONA CROSSINGS, Z416618

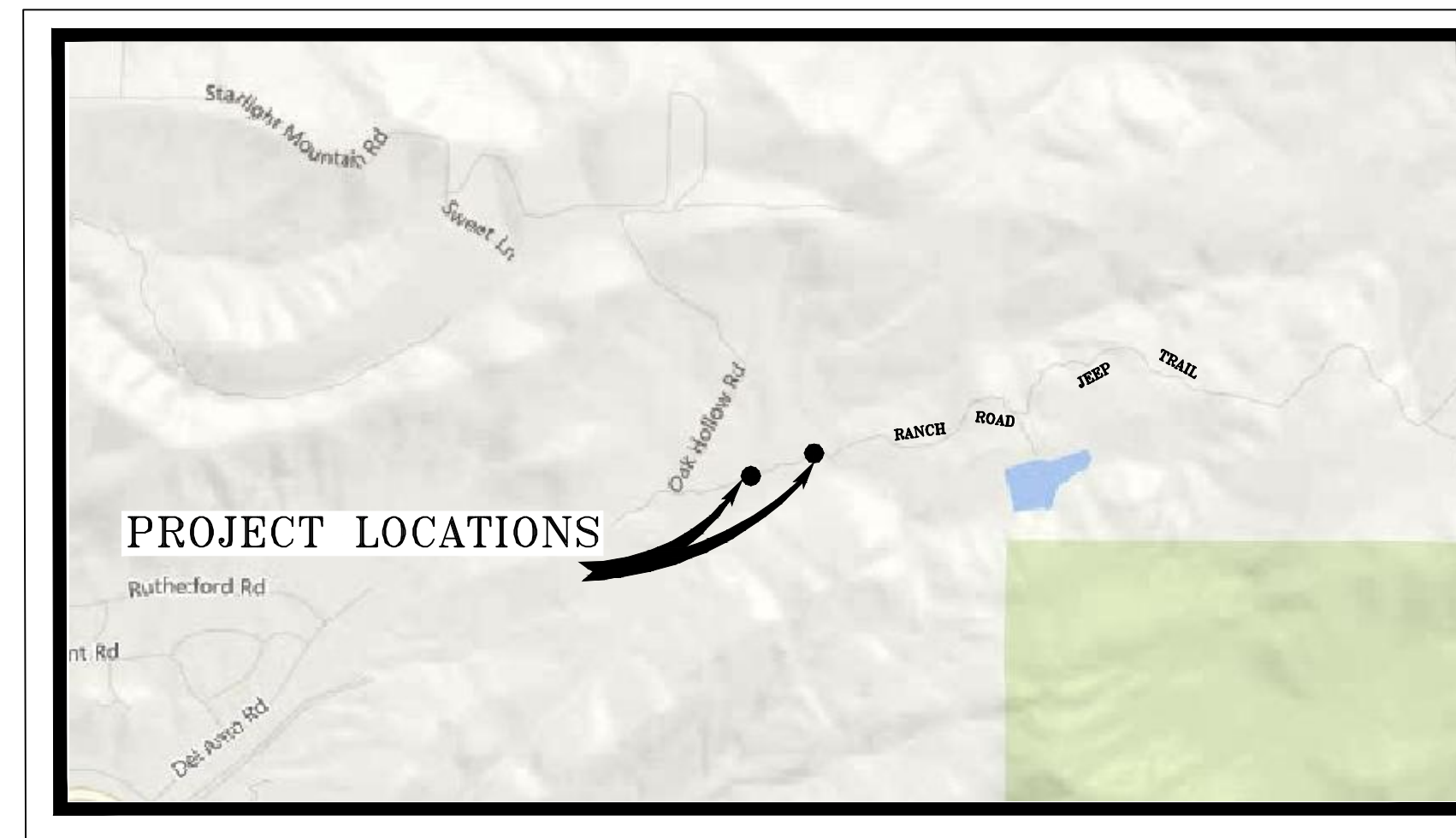
## GENERAL NOTES:

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTION TO THE CONTRACTOR BY THE ENGINEER OF WORK:

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE PORTIONS OF THE FOLLOWING SDG&E SPECIFICATIONS:
  - TE-100 "GENERAL CONSTRUCTION SPECIFICATIONS"
  - TE-101 "TRANSMISSION STRUCTURE ACCESS ROAD AND STRUCTURE PAD CONSTRUCTION."
  - "SAN DIEGO REGIONAL STANDARD DRAWINGS"
- NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, WATER AND COMPACT ALL FILL IN STRICT ACCORDANCE WITH SDG&E'S SPECIFICATIONS. THE EXCAVATION AND THE PLACEMENT OF FILL WILL BE UNDER THE DIRECT INSPECTION OF THE SDG&E REPRESENTATIVE. ALL FILL SLOPES SHALL BE BENCHED IN IF THE SDG&E REPRESENTATIVE FEELS IT IS NECESSARY. DEVIATIONS FROM THE SDG&E'S SPECIFICATIONS WILL BE PERMITTED ONLY UPON WRITTEN AUTHORIZATION FROM THE SDG&E REPRESENTATIVE.
- DURING CONSTRUCTION: THE CONTRACTOR SHALL GRADE ALL EXCAVATED AND FILLED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. SURFACE WATER SHALL BE CONTROLLED TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISH WORK ON THE SITE. THE CONTRACTOR SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS, AND UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. AFTER GRADING IS COMPLETED, NO FURTHER EXCAVATION OR FILLING SHALL BE DONE.
- CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
- BRUSH AND TREES SHALL BE REMOVED ONLY WITHIN THE AREA TO BE GRADED. IN AREA TO BE GRADED, ALL VEGETATION INCLUDING ROOT SYSTEMS SHALL BE REMOVED AND THE RESULTING EXCAVATION FILLED WITH FILL SOILS COMPACTED TO MINIMUM 90% RELATIVE COMPACTION.
- CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OR CROSS-SECTION. ALL FILL SLOPES SHALL NOT BE STEEPER THAN 2:1 AND SHOULD BE KEYED IN AND RECOMPACTED TO 90% DRY DENSITY. ALL CUT SLOPES SHALL BE 2:1 UNLESS SPECIFIED DIFFERENTLY ON THE GRADING PLANS. THE SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE SDG&E REPRESENTATIVE AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPES SHALL BE REMOVED AND DISPOSED OF.
- GRADING SHALL BE DONE WITHIN A TOLERANCE OF  $\pm 0.1'$  OF THE GRADES AND ELEVATIONS SHOWN ON THESE PLANS AND ALL SLOPES SHALL BE CONSTRUCTED WITHIN  $\pm 0.5'$  OF THE LOCATION SHOWN ON THESE PLANS. IN NO WAY SHALL THE ABOVE TOLERANCES RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING A FINISH THAT WILL NOT POND WATER.
- ANY QUANTITIES INDICATED ON THESE PLANS ARE ENGINEERS' ESTIMATES ONLY AND ARE NOT TO BE USED BY CONTRACTOR FOR BIDDING PURPOSES.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND BRING DISCREPANCIES TO THE ATTENTION OF THE SDG&E REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.

## BACKFILL AND SUITABLE SOILS:

ALL BACKFILL PLACEMENT ASSOCIATED WITH THE GRADING OF THE ERODED ZONES SHALL BE MOISTURE-CONDITIONED TO APPROXIMATELY 1 TO 3 PERCENT ABOVE THE OPTIMUM MOISTURE CONTENT, PLACED IN MAXIMUM LOOSE THICKNESS OF 6", AND COMPACTED TO AT LEAST 90 PERCENT OF THE MAXIMUM DRY DENSITY, AS EVALUATED BY THE LATEST VERSION OF ASTM D1557.



### LOCATION MAP

THOMAS BROS. SAN DIEGO COUNTY 1153 H7  
 WESTERN CROSSINGS: LAT 33.031807  
 LONG: -116.781654  
 EASTERN CROSSING: LAT: 33.032455  
 LONG: -116.779235

SCALE 1" = 1000'

## EROSION CONTROL NOTES:

- RE-ESTABLISH VEGETATION BY HYDRO-SEEDING WITH SEED MIX THAT WILL INCLUDE NATIVE OR DROUGHT TOLERANT PLANT SPECIES AND SHALL BE PROVIDED BY AND SDG&E REPRESENTATIVE.
- ALL FILL AND CUT SLOPES SHALL BE PROTECTED BY CONTINUOUS FIBER ROLLS LOCATED AT ALL LOCATIONS WHERE RUNOFF FROM EXCAVATED OR FILL AREAS CAN OCCUR, IN ACCORDANCE WITH THE SEMPRA ENERGY UTILITIES "WATER QUALITY CONSTRUCTION BEST MANAGEMENT PRACTICES MANUAL". ANY EXTRA CLARIFICATIONS REQUIRED CAN BE BROUGHT UP DURING THE PRE-BID MEETING AND/OR DURING THE PRE-BID WALK DOWN.
- FOR ADDITIONAL EROSION CONTROL NOTES SEE SHEET 5.

## SCOPE OF WORK:

EASTERN CROSSING:

- INSTALL 8" PCC PAVEMENT SECTION WITH VERTICAL CUTS ALONG ACCESS ROAD.
- IF CONSTRUCTION OCCURS WHILE WATER IS FLOWING, POSSIBLE REROUTING AND PUMPING OF WATER WILL OCCUR WHILE CONCRETE IS PLACED.
- RE-GRADE SLOPES TO MATCH EXISTING ROADWAY GRADE.

WESTERN CROSSINGS:

- INSTALL NEW WING TYPE HEADWALL UPSTREAM AND NEW 'U' TYPE HEADWALL DOWNSTREAM PER RSD D-34 ON WESTERN SECTION OF ROADWAY. REFER TO SECTION A-A AND DETAILS ON SHEET 3 AND 4.
- INSTALL TWO 36 INCH HDPE PIPES BENEATH EXISTING GROUND BETWEEN PROPOSED HEADWALLS ON WESTERN SECTION OF ROADWAY.
- INSTALL NEW WING HEADWALLS PER RSD D-34 ON NORTH AND SOUTH SIDE OF ROADWAY ON EASTERN SECTION OF ROADWAY. REFER TO SECTION C-C AND DETAILS ON SHEET 3 AND 4.
- INSTALL ONE 24 INCH HDPE PIPE BENEATH EXISTING GROUND AND BETWEEN PROPOSED HEADWALLS ON EASTERN SECTION OF ROADWAY.
- RE-GRADE SLOPES TO MATCH EXISTING ROADWAY GRADE.
- INSTALL 6" MINIMUM CLASS II BASE ROADWAY SURFACE.
- INSTALL NO. 2 BACKING RIP RAP

## SHEET INDEX

- SHEET-1..... TITLE SHEET AND GENERAL NOTES  
 SHEET-2..... GRADING PLAN  
 SHEET-3..... GRADING PLAN  
 SHEET-4..... CONTROL POINTS MAP AND DETAILS PLAN  
 SHEET-5..... EROSION CONTROL PLAN

## CONTROL POINTS:

POINT NO.: 100 SPIKE N: 1955819.499 E: 6399386.933 EL: 1905.12  
 POINT NO.: 101 SPIKE N: 1955714.716 E: 6399159.886 EL: 1910.11

## TOPOGRAPHY SOURCE

HALE ENGINEERING FIELD SURVEY  
 PERFORMED ON: 04/28/17

HALE ENGINEERING & SURVEYING  
 7910 CONVOY CT.  
 SAN DIEGO, CA 92111

## BASIS OF COORDINATES:

THE COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, AND ARE EXPRESSED IN TERMS OF THE CALIFORNIA COORDINATE SYSTEM 1983, ZONE VI, AT EPOCH 2010.00, AND ARE BASED ON STATION "SAN DIEGO GPS 32" PER NGS DATA SHEET, PID: DX5302. THE VALUE FOR STATION "SAN DIEGO GPS 32" IS N 1,959,225.13, E 6,351,464.67.

## BASIS OF BEARINGS:

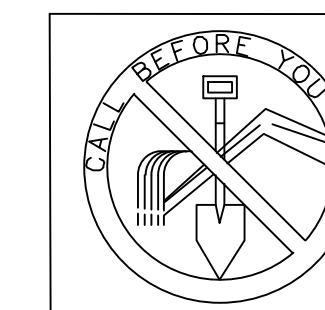
BEARINGS ARE REFERENCED TO GRID NORTH AS DEFINED BY THE CALIFORNIA COORDINATE SYSTEM 1983, ZONE VI AND ARE BASED ON THE CALCULATED LINE FROM STATION "SAN DIEGO GPS 32" TO STATION "SY 119" PER NGS DATA SHEET. SAID BEARING BEING N73°09'53"E.

## BENCHMARK:

STATION: "SY 119", PER NGS DATA SHEET, PID: DX0246. ELEVATIONS ARE REFERENCED TO NAVD88, AS DETERMINED LOCALLY BY STATION "SY 119" WITH THE PUBLISHED ELEVATION OF 2989.25 FT.

## LEGEND

DESCRIPTION	SYMBOL
SECTION STATIONING	
CONTROL POINT	
EXISTING GROUND CONTOUR	
FINISHED GROUND CONTOUR	
FINISHED GRADE	
FLOWLINE	
INVERT ELEVATION	
PROPOSED CUT/FILL SLOPE	
24" HDPE CORRUGATED ADS "HP STORM" PIPE	
36" HDPE CORRUGATED ADS "HP STORM" PIPE	
'U' TYPE HEADWALL SEE SHEET 4 FOR DETAILS	
WING TYPE HEADWALL SEE SHEET 4 FOR DETAILS	
CLASS II BASE	
RIP RAP (TYPE PER PLAN) SEE SHEET 4 FOR DETAILS	
AREA TO BE HYDRO-SEEDED	
GRAVEL BAGS	
FIBER ROLLS	



## UNDERGROUND SERVICE ALERT

SECTION 4216 & 4217 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 (2) WORKING DAYS BEFORE YOU DIG. WEB ADDRESS: WWW.DIGALERT.ORG

## REVISIONS

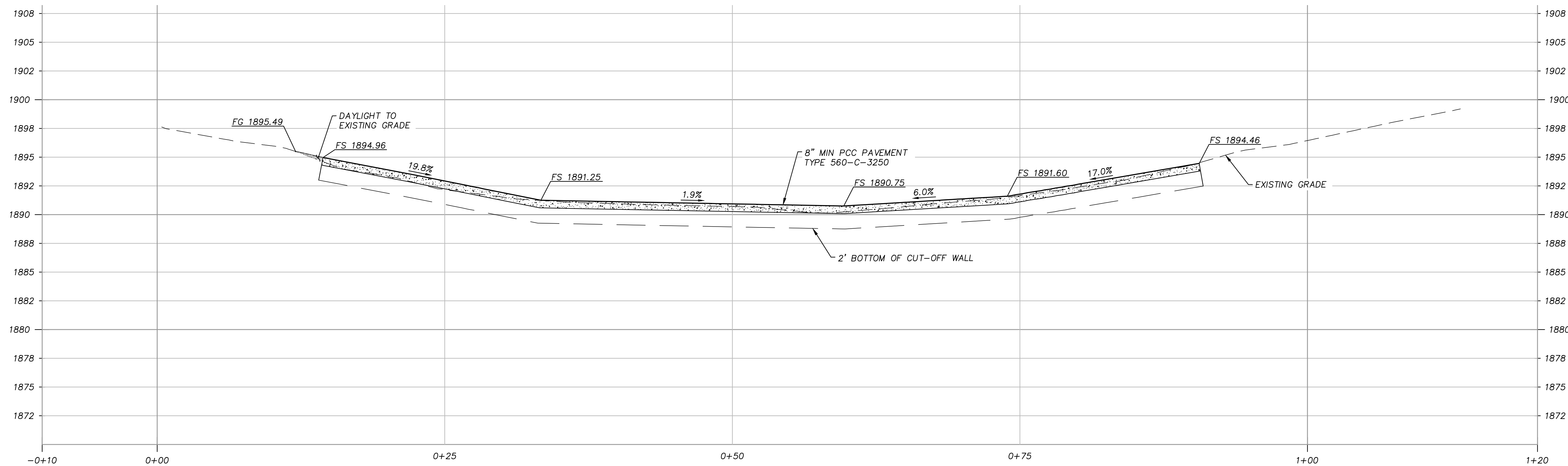
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	

SAN DIEGO GAS & ELECTRIC COMPANY  
 SAN DIEGO, CALIFORNIA

RAMONA CROSSINGS

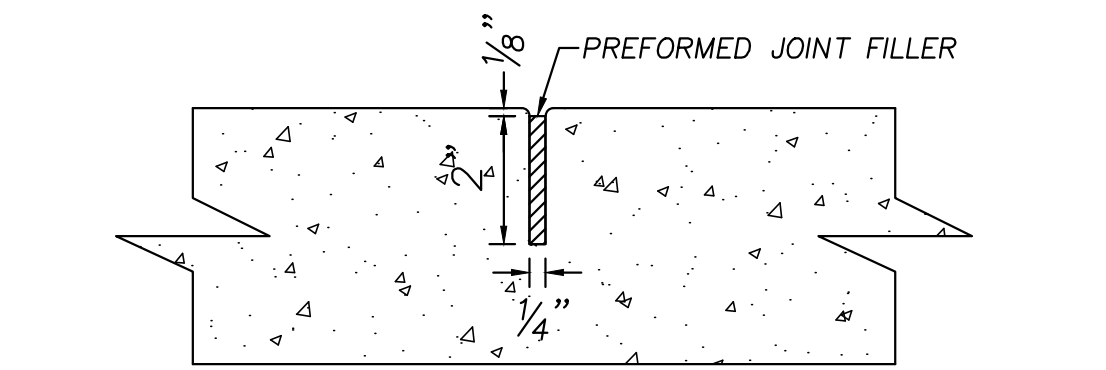
Z416618  
 SAN DIEGO

DRAWN BY: MLM	DATE: 05-10-2017	SCALE: AS SHOWN	W.O.	REV.
CHECKED BY: MLH	DATE:			
APPROVED BY: JAH	DATE:			
CAD NO.:	PLOT SCALE: 1" = 1'			



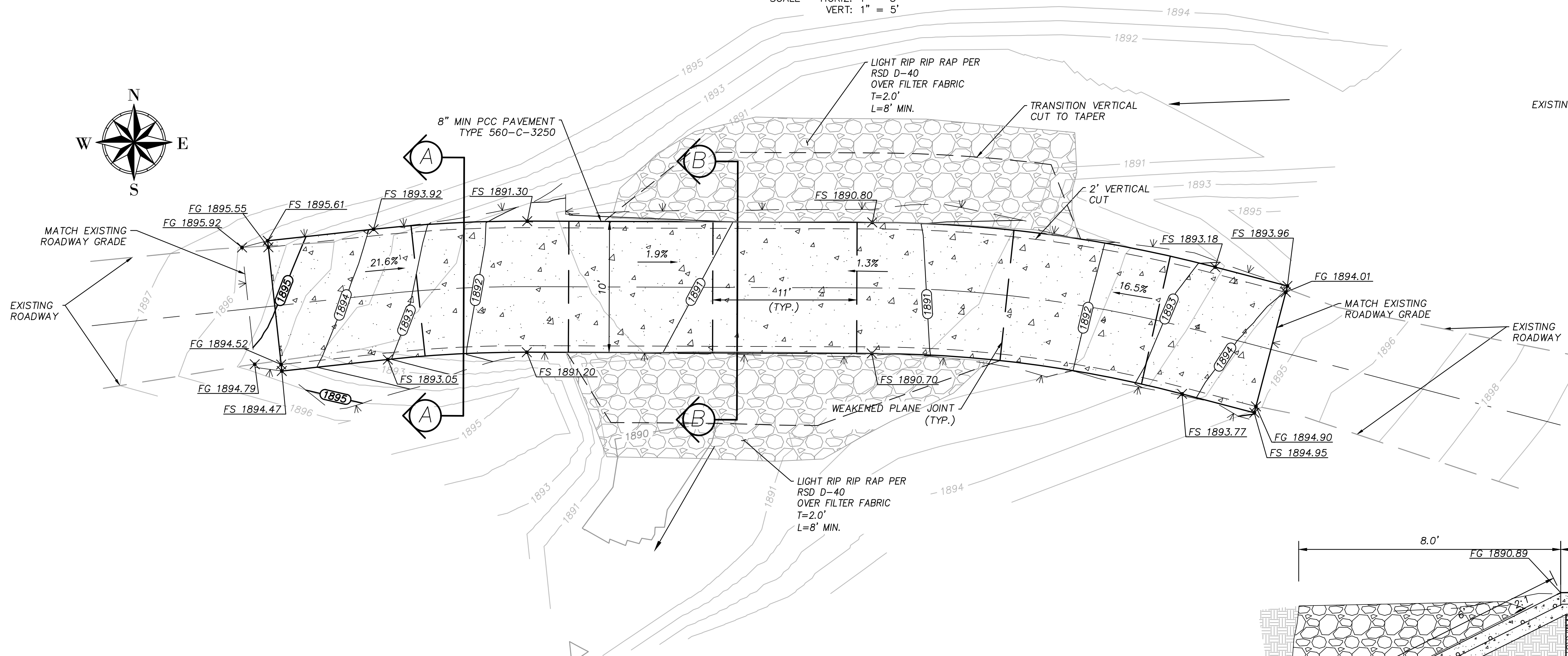
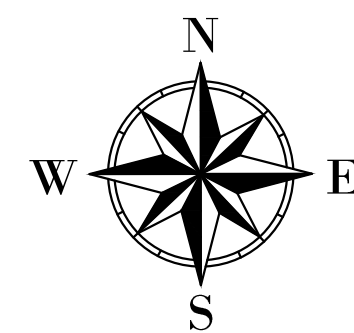
**ROAD PROFILE @ CL**

SCALE - HORIZ: 1" = 5'  
VERT: 1" = 5'



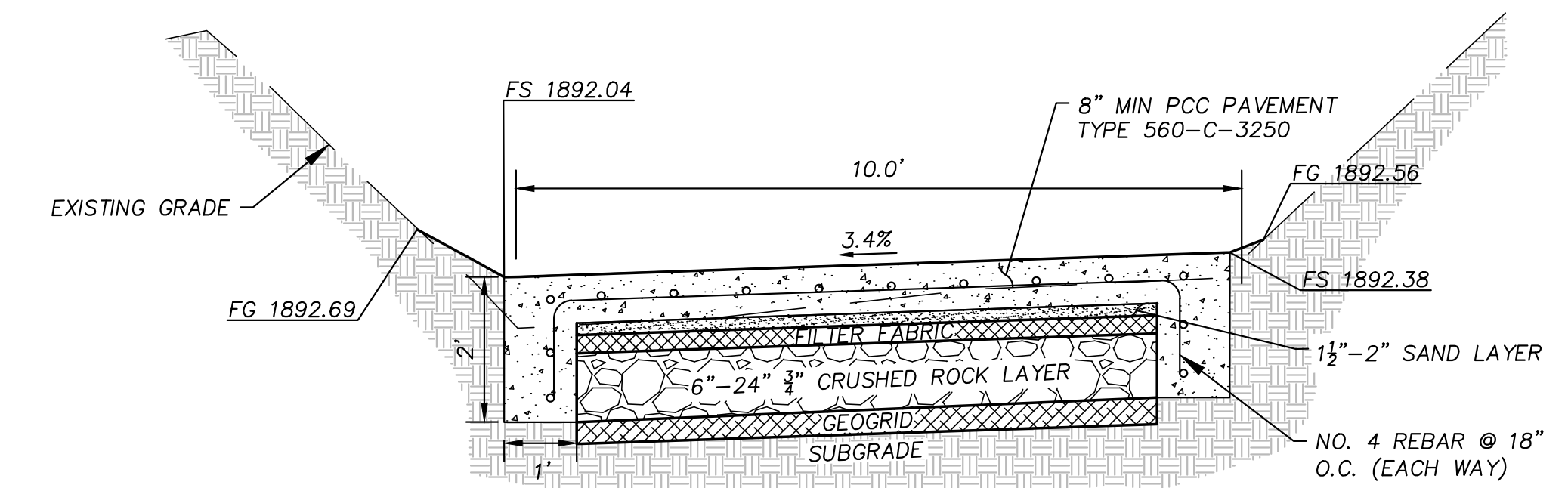
**WEAKENED PLANE JOINT**

NOT TO SCALE



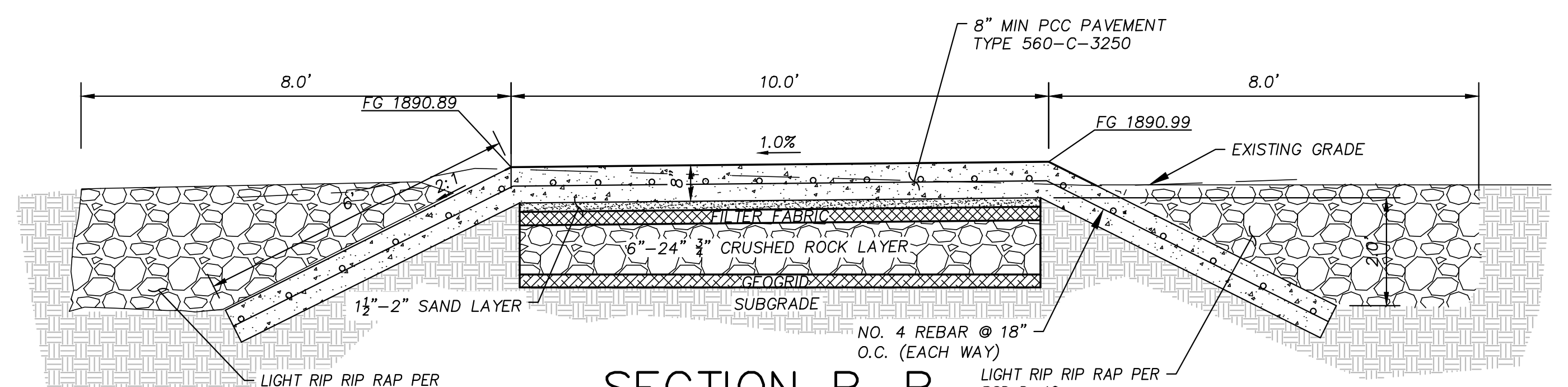
**PLAN**

SCALE: 1" = 5'



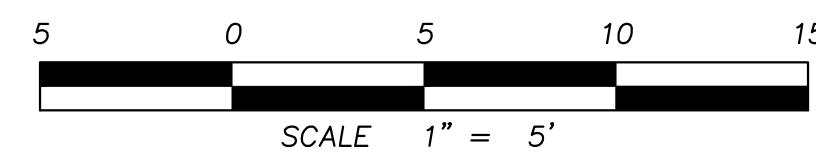
**SECTION A-A**

SCALE - HORIZ: 1" = 2'  
VERT: 1" = 2'



**SECTION B-B**

SCALE - HORIZ: 1" = 2'  
VERT: 1" = 2'



SCALE 1" = 5'

**REVISIONS**

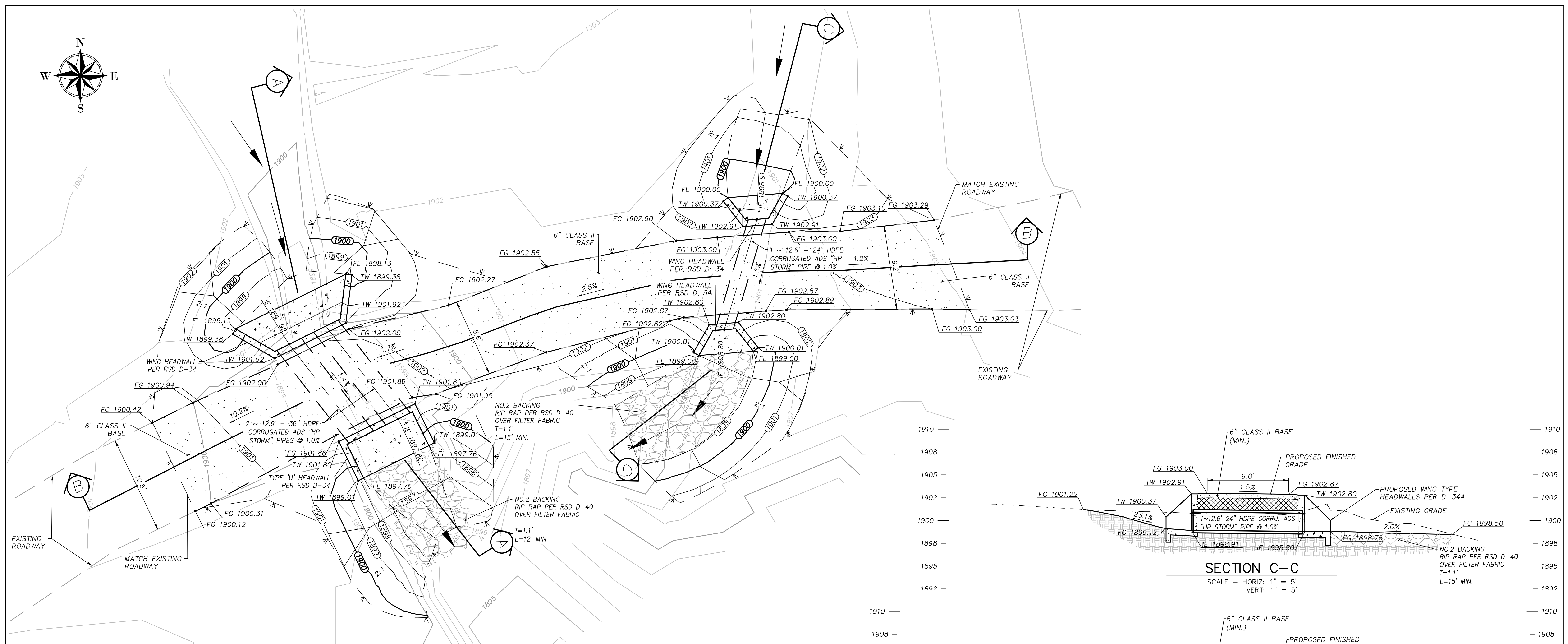
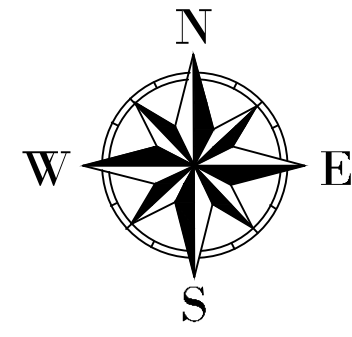
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	

SAN DIEGO GAS & ELECTRIC COMPANY  
SAN DIEGO, CALIFORNIA

**RAMONA CROSSINGS**

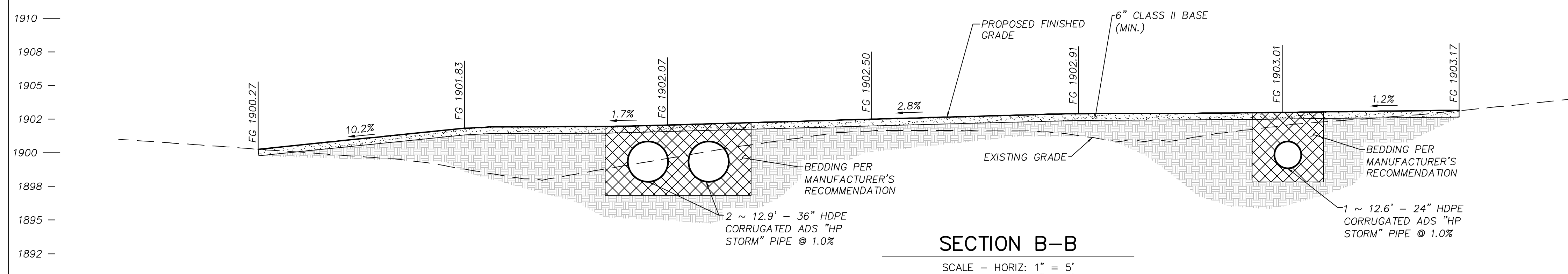
Z41661B  
SAN DIEGO

DRAWN BY: MLM	DATE: 05-10-2017	SCALE: AS SHOWN	W.O.	REV.
CHECKED BY: MLH	DATE:			
APPROVED BY: JAH	DATE:			
CAD NO.:	PLOT SCALE: 1" = 1"			



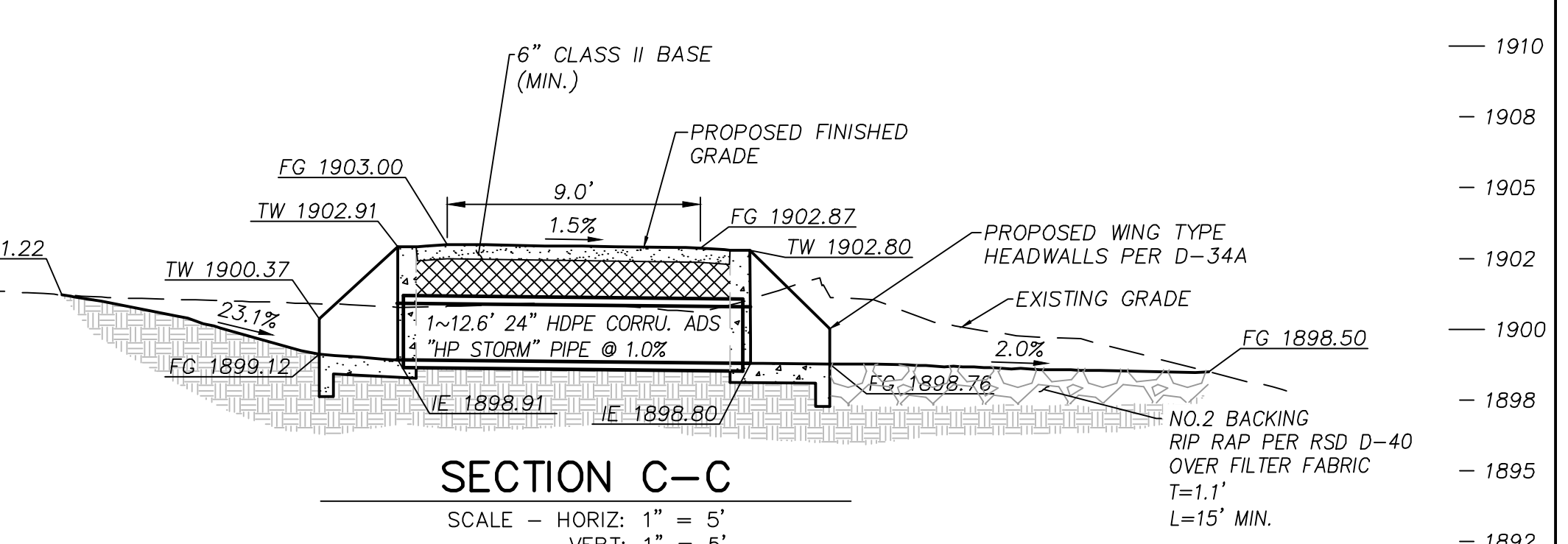
**PLAN**

SCALE: 1" = 5'



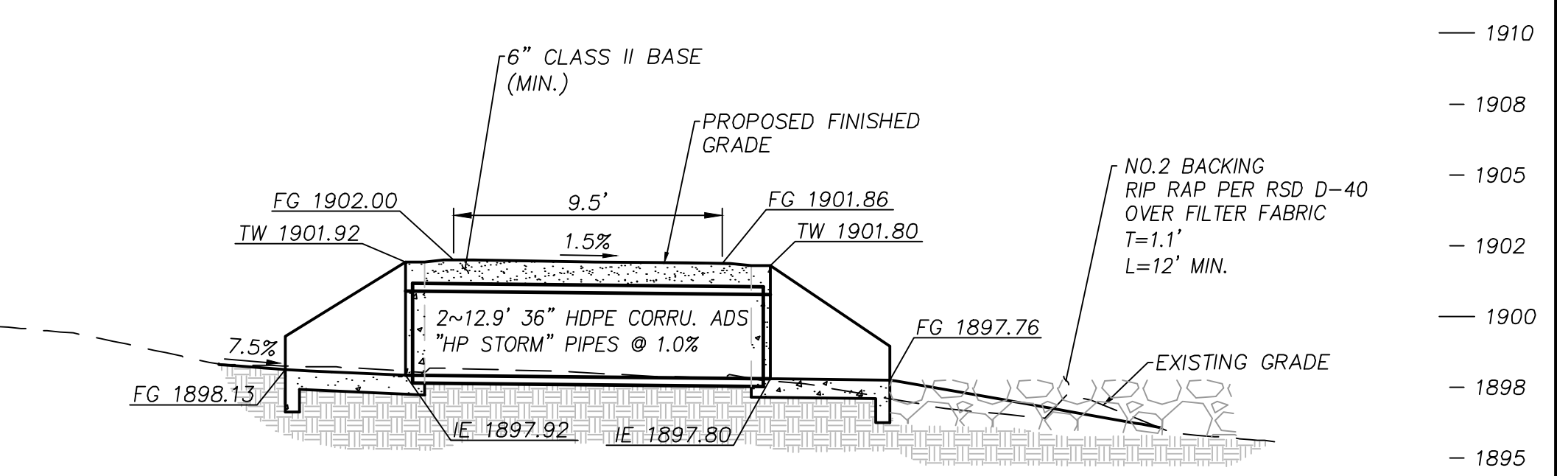
**SECTION B-B**

SCALE - HORIZ: 1" = 5'  
VERT: 1" = 5'



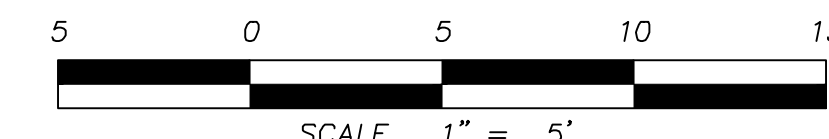
**SECTION C-C**

SCALE - HORIZ: 1" = 5'  
VERT: 1" = 5'



**SECTION A-A**

SCALE - HORIZ: 1" = 5'  
VERT: 1" = 5'



SCALE 1" = 5'

**REVISIONS**

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	

**SAN DIEGO GAS & ELECTRIC COMPANY**  
SAN DIEGO, CALIFORNIA

**RAMONA CROSSINGS**  
Z416618  
SAN DIEGO

DRAWN BY: MLM	DATE: 05-10-2017	SCALE: AS SHOWN	W.O.	REV.
CHECKED BY: MLH	DATE:			
APPROVED BY: JAH	DATE:			
CAD NO.:	PLOT SCALE: 1" = 1'			



PLAN: CONTROL POINTS

SCALE: 1" = 40'

**SECTION A-A**

**SECTION B-B**

**ALT DETAIL C**

# OF PIPE	DIMENSIONS			SINGLE PIPE			DOUBLE PIPE					
	L	E	F	W	CONC. STEEL (CY)	CONC. STEEL (LBS)	W	CONC. STEEL (CY)	CONC. STEEL (LBS)			
18"	2'-3 1/8"	1'-3"	1'-10 1/2"	2'	0.55	35	0.63	43	0.82	53	0.90	61
24"	3'-1 7/8"	1'-9"	2'-7 1/2"	2'-4"	0.79	47	0.93	60	1.22	73	1.36	96
30"	4'-5/8"	2'-3"	3'-4 1/2"	3'	1.05	71	1.29	85	1.66	109	1.92	123
36"	4'-11 1/2"	2'-9"	4'-1 1/2"	3'-4"	1.33	88	1.69	114	2.19	136	2.55	162

**NOTES**

- CONCRETE SHALL BE 560-C-3250.
- DROPPED CORNERS SHALL BE 3/4" CHAMFERED.
- MULTIPLE PIPES SHALL BE SET A DISTANCE OF D/2 WITH A 1" MIN BETWEEN OUTSIDE DIAMETERS OF PIPES.
- TOP OF HEADWALL SHALL BE PLACED APPROXIMATELY PARALLEL TO PROFILE GRADE WHEN THE GRADE IS 3% OR MORE.
- SKWEED PIPES: DIMENSION W SHALL BE INCREASED IN WIDTH OR LENGTH DUE TO SLOPE OR MULTIPLE PIPES.
- USE ALTERNATE DETAIL C FOR PIPE WALL THICKNESS GREATER THAN 3".

**LEGEND ON PLANS**

**REVISION**

Revision	By	Approved	Date
ORIGINAL	Kerchival		12/7/05
Reformatted	T. Stanton		04/06
Edited	T. Stanton		02/09
Edited	S.S. T. Regallo		03/11
Edited	T.R. T. Regallo		10/15

**SAN DIEGO REGIONAL STANDARD DRAWING**

**WING AND U TYPE HEADWALLS FOR 18" TO 36" PIPES**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

12/17/2016

DRAWING NUMBER **D-34**

**SECTION A-A**

**SECTION B-B**

**NOTES**

- PLANS SHALL SPECIFY: (A) ROCK CLASS AND RIP-RAP THICKNESS (T). T SHALL BE AT LEAST 1.5 TIMES THE NOMINAL EQUIVALENT DIAMETER OF STONE (d<sub>n</sub>) OF THE SPECIFIED RIP-RAP. (B) FILTER BLANKET MATERIAL, NUMBER OF LAYERS AND THICKNESS.
- RIP-RAP SHALL BE EITHER QUARRY STONE OR BROKEN CONCRETE (IF SHOWN ON PLANS). CORNERS ARE NOT ACCEPTABLE.
- RIP-RAP SHALL BE PLACED OVER FILTER BLANKET MATERIAL WHICH MAY BE EITHER GRANULAR MATERIAL OR NON-WOVEN GEOTEXTILE FILTER FABRIC MATERIAL AT WEIGHT SPECIFIED IN PLANS OR SPECIFICATIONS.
- SEE TABLE 200-1.7 IN THE SAN DIEGO REGIONAL SUPPLEMENT TO GREENBOOK FOR SELECTION OF FILTER BLANKET.
- RIP-RAP ENERGY DISSIPATORS SHALL BE DESIGNATED AS EITHER TYPE 1 OR TYPE 2. TYPE 1 SHALL BE WITH CONCRETE SILL; TYPE 2 SHALL BE WITHOUT SILL.

**TABLE 7-1 (BELOW) PER JULY 2005 SAN DIEGO COUNTY DRAINAGE DESIGN MANUAL**

DESIGN VELOCITY (FT/SEC) *	ROCK CLASS	RIP-RAP THICKNESS "T" (MIN)
6-10	NO. 2 BACKING	1.1 FT
10-12	1/4 TON	2.7 FT
12-14	1/2 TON	3.5 FT
14-16	1 TON	4.4 FT
16-18	2 TON	5.4 FT

\* OVER 20 FT/SEC REQUIRES SPECIAL DESIGN

D = PIPE DIAMETER #  
W = BOTTOM WIDTH OF CHANNEL

**REVISION**

Revision	By	Approved	Date
ORIGINAL	Kerchival		12/7/05
Edited	S. Shroy		04/06
Edited	T. Stanton		02/09
Edited	S.S. T. Regallo		03/11
Edited	T.R. T. Regallo		10/15

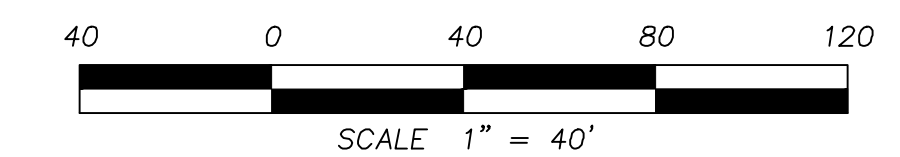
**SAN DIEGO REGIONAL STANDARD DRAWING**

**RIP RAP ENERGY DISSIPATER**

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE

12/17/2016

DRAWING NUMBER **D-40**



REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.

**SAN DIEGO GAS & ELECTRIC COMPANY**  
SAN DIEGO, CALIFORNIA

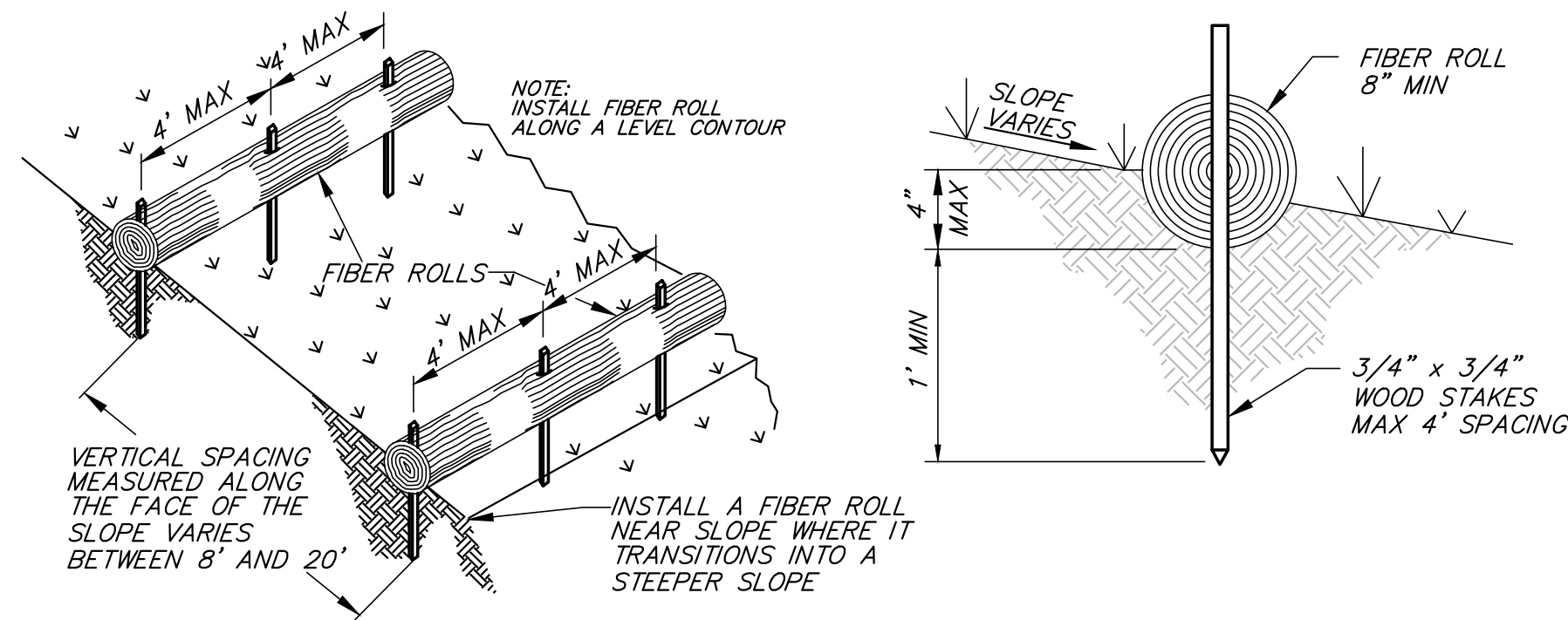
**RAMONA CROSSINGS**  
Z416618  
SAN DIEGO

DRAWN BY:	DATE:	SCALE:	W.O.	REV.
MLM	05-10-2017	AS SHOWN		
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:				

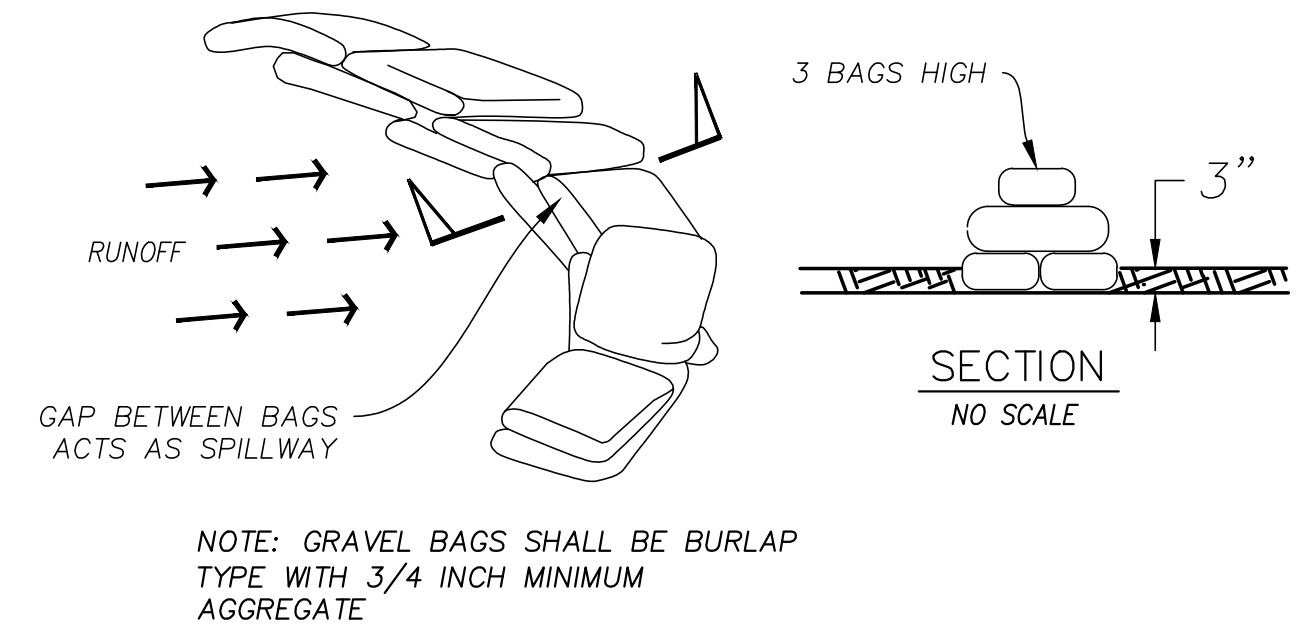
PLOT SCALE: 1" = 1'

**EROSION CONTROL NOTES**

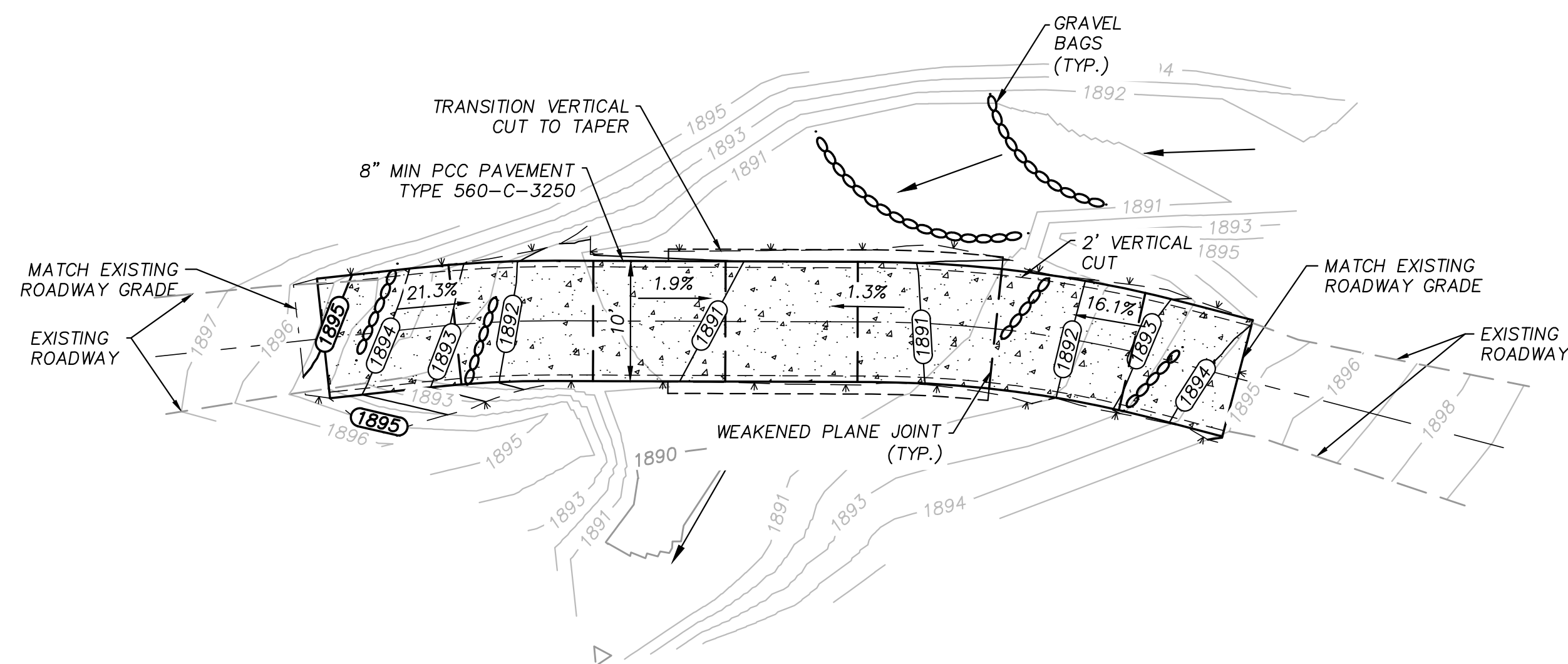
1. IN CASE EMERGENCY WORK IS REQUIRED, CONTACT SDG&E SERVICE DISPATCH (TROUBLE) ENVIRONMENTAL SPECIALIST ON DUTY (ODS) AT 24 HOUR PHONE NUMBER (619)725-5100.
2. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION CONTROL DEVICES WHEN RAIN IS IMMINENT.
3. EROSION CONTROL DEVICES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE PUBLIC WORKS INSPECTOR OR THE SDG&E REPRESENTATIVE.
4. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER, INCLUDING SILT AND OTHER DEBRIS REMOVAL, TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR AFTER EACH RUN-OFF PRODUCING RAINFALL.
5. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE PUBLIC WORKS INSPECTOR DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
7. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.
8. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
9. ALL REMOVABLE PROTECTIVE EROSION CONTROL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
10. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4" INCH MINIMUM AGGREGATE.
11. SHOULD GERMINATION OF HYDROSEEDED SLOPES FAIL TO PROVIDE EFFECTIVE COVERAGE (90%) OF GRADED SLOPES PRIOR TO NOVEMBER 15, THE SLOPES SHALL BE STABILIZED BY PUNCH STRAW.



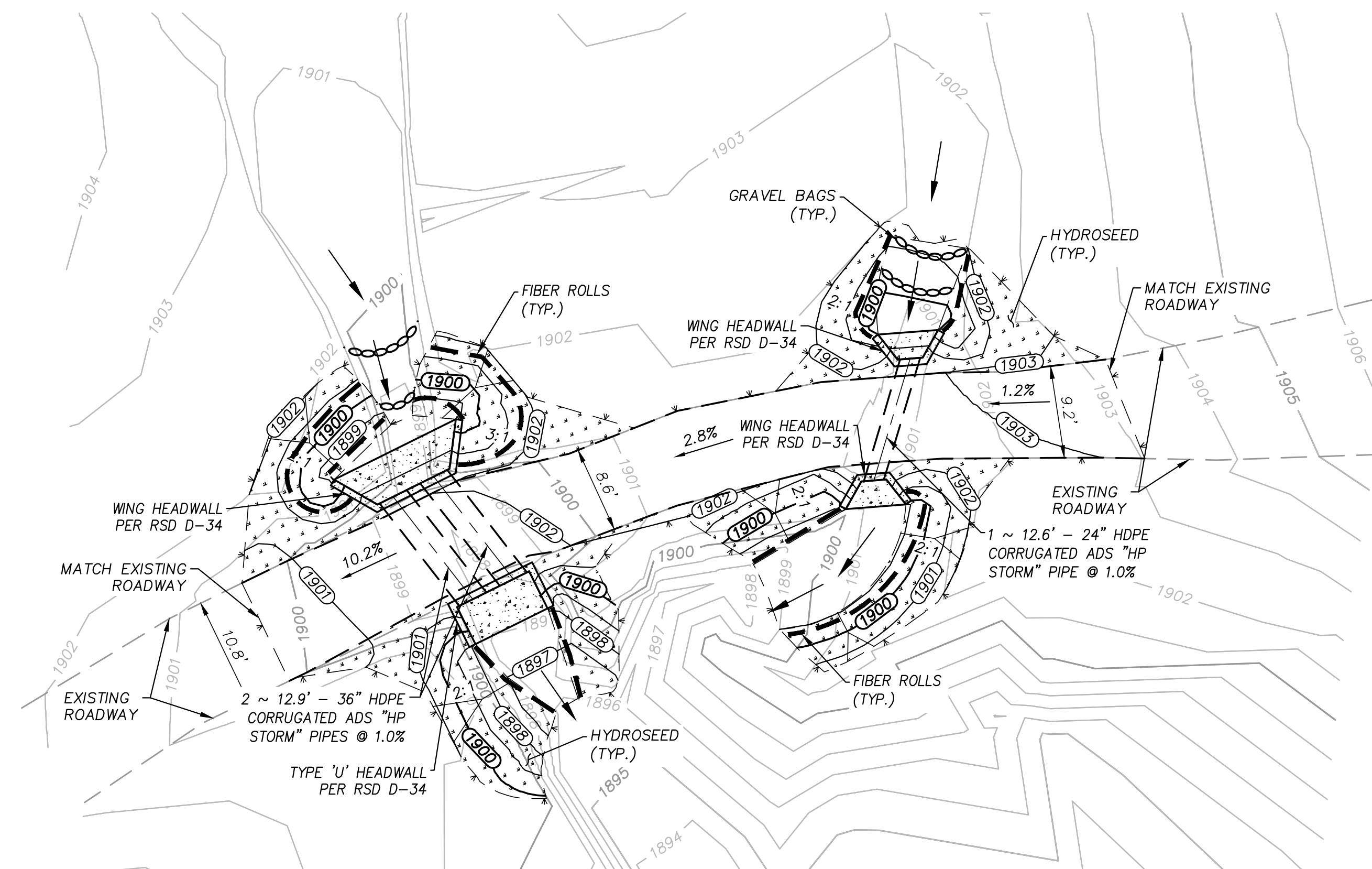
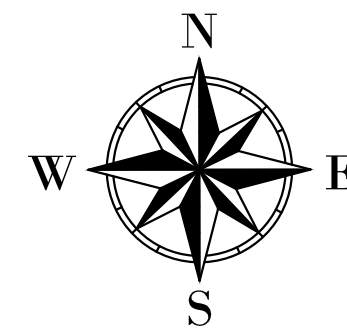
**FIBER ROLLS DETAIL**  
SCALE: N.T.S.



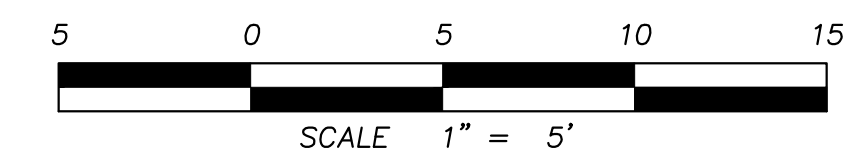
**GRAVEL BAG CHECK DAM**  
SCALE: N.T.S.



**PLAN: EASTERN CROSSING**  
SCALE: 1" = 5'



**PLAN: WESTERN CROSSING**  
SCALE: 1" = 5'



**REVISIONS**

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	

SAN DIEGO GAS & ELECTRIC COMPANY  
SAN DIEGO, CALIFORNIA

**RAMONA CROSSINGS**  
Z416618  
SAN DIEGO

DRAWN BY: MLM	DATE: 05-10-2017	SCALE: AS SHOWN	W.O.	REV.
CHECKED BY: MLH	DATE:			
APPROVED BY: JAH	DATE:			
CAD NO.:	PLOT SCALE: 1" = 1'			