

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

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

PROJECT: eTS 34824 Otay Mesa Access Road Repair Project
Certification Number R9-2017-0126
WDID: 9 000003210

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

Reg. Meas. ID: 416009 Place ID: 839360 Party ID: 546428 Person ID: 506039
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ACTION:

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

PROJECT DESCRIPTION

A revised application dated August 8, 2018 was submitted by San Diego Gas & Electric (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (United States Code (USC) Title 33, section 1341) for the proposed eTS 34824 Otay Mesa Access Road Repair Project (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on October 2, 2018. The Applicant proposes to discharge dredged or fill material to waters of the United States and/or State associated with construction activity at the Project site. The Applicant states that the Project qualifies for non-notifying Nationwide Permit No. 12 under Clean Water Act section 404 permit from the United States Army Corps of Engineers for the Project.

The Project is located within the City of San Diego, San Diego County, California, on an unpaved access road off Alta Road. The Project center reading is located at latitude 32.588807 and longitude -116.937179. The Applicant has paid all required application for this Certification in the amount of \$1,500.00. The Applicant is required to pay all annual fees for each fiscal year or portion of a fiscal year that this Certification is active¹. On October 2, 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

¹ Additional information regarding fees can be found electronically on the State Water Resources Control Board web site at the following location: <http://www.waterboards.ca.gov/resources/fees/>

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 Applicant propose to remove the headwalls and damaged reinforced concrete pipe culvert that form the existing utility access road crossing from an unnamed tributary of the Otay River and replace it with a steel span bridge (i.e., railroad flat car). Two new concrete bridge abutments will be installed to support the new crossing. The segment of the stream channel within the Project footprint will be recontoured and revegetated in accordance with the San Diego Gas and Electric eTS 34824 Otay Mesa Access Road Repair Revegetation Plan, dated July 26, 2018.² A 2-year maintenance and monitoring program is included in the Project.

All equipment and materials will be staged within the existing access road, outside of jurisdictional waters. SDG&E operational protocols will be followed, and equipment and materials will be removed from the project site upon completion of the project activities.

The newly contoured areas will be seeded with native hydro-seed mix and straw waddles will be installed along the eastern and western sides of the access road. In addition, during construction two rows of gravel bag check-dams on the north side of the crossing and one row on the south side would be installed to help meter water flow.

Under the terms of this Certification, the Applicant must ensure that the design, operation, and degree of treatment expected to be attained from equipment, facilities, or activities (including construction and post-construction BMPs) will adequately prevent and reduce any effluents which may be discharged. Compliance with the Certification conditions will help ensure that construction and post-construction discharges from the Project will not cause or contribute to exceedances of water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan).

Project construction will permanently impact 0.011 acre (58 linear feet) and temporarily impact 0.0014 acre (14 linear feet within the permanent impact footprint) of stream channel waters of the United States and/or State. This permanent impact is attributed to removal of the existing headwalls and culvert associated with the road crossing and the installation of the two bridge abutments that will support the span bridge. The Applicant reports that the Project purpose cannot be practically accomplished in a manner which would avoid or result in less adverse impacts to aquatic resources considering all potential practicable alternatives, such as the potential for alternate available locations, designs, reductions in size, configuration or density. The Project will result in the removal of a structure from the stream channel that restores the natural flow regime and vegetation; therefore, no compensatory mitigation is required for permanent impacts. All waters of the United States and/or State receiving temporary discharges of fill material will be restored upon removal of the fill.

It is anticipated that the Project will require approximately 6 to 8 weeks to complete. Additional Project details are provided in Attachment 2 of this Certification.

² Revegetation Plan received on September 13, 2018, document handle 3758023.

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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. R9-2017-0126 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 USC Title 33, section 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

- 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 USC section 1313). The Basin Plan is accessible at:
- 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 Board 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 the Otay River, its tributaries, or the Otay River;
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 or will be provided upon request.

III. CONSTRUCTION BEST MANAGEMENT PRACTICES

- A. **Approvals to Commence Construction.** The Applicant shall not commence Project construction until all necessary federal, State, and local approvals are obtained.
- B. **Personnel Education.** Prior to the start of the Project, and annually thereafter, the Applicant must educate all personnel on the requirements in this Certification, pollution prevention measures, spill response measures, and BMP implementation and maintenance measures.
- C. **Spill Containment Materials.** The Applicant must, at all times, maintain appropriate types and sufficient quantities of materials on-site to contain any spill or inadvertent release of materials that may cause a condition of pollution or nuisance if the materials reach waters of the United States and/or State.
- D. **General Construction Storm Water Permit.** 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 runoff management plan (or equivalent construction BMP plan) to prevent the discharge of sediment and other pollutants during construction activities.
- E. **Waste Management.** The Applicant must properly manage, store, treat, and dispose of wastes in accordance with applicable federal, state, and local laws and regulations. Waste management shall be implemented to avoid or minimize exposure of wastes to precipitation or storm water runoff. The storage, handling, treatment, or disposal of waste shall not create conditions of pollution, contamination or nuisance as defined in Water Code section 13050. Upon Project completion, all Project generated debris, building materials, excess material, waste, and trash shall be removed from the Project site(s) for disposal at an authorized landfill or other disposal site in compliance with federal, state and local laws and regulations.

- F. **Waste Management.** Except for a discharge permitted under this Certification, the dumping, deposition, or discharge of trash, rubbish, unset cement or asphalt, concrete, grout, damaged concrete or asphalt, concrete or asphalt spoils, wash water, organic or earthen material, steel, sawdust or other construction debris waste from Project activities directly into waters of the United States and or State, or adjacent to such waters in any manner which may permit its being transported into the waters, is prohibited.
- G. **Downstream Erosion.** Discharges of concentrated flow during construction or after Project completion must not cause downstream erosion or damage to properties or stream habitat.
- H. **Construction Equipment.** All equipment must be washed prior to transport to the Project site and must be free of sediment, debris, and foreign matter. All equipment used in direct contact with surface water shall be steam cleaned prior to use. All equipment using gas, oil, hydraulic fluid, or other petroleum products shall be inspected for leaks prior to use and shall be monitored for leakage. Stationary equipment (e.g., motors, pumps, generator, etc.) shall be positioned over drip pans or other types of containment.
- I. **Process Water.** Water containing mud, silt, or other pollutants from equipment washing or other activities, must not be discharged to waters of the United States and/or State or placed in locations that may be subjected to storm water runoff flows. Pollutants discharged to areas within a stream diversion must be removed at the end of each work day or sooner if rain is predicted.
- J. **Surface Water Diversion.** All surface waters, including ponded waters, must be diverted away from areas of active grading, construction, excavation, vegetation removal, and/or any other activity which may result in a discharge to the receiving water. Diversion activities must not result in the degradation of beneficial uses or exceedance of the receiving water quality objectives. Any temporary dam or other artificial obstruction constructed must only be built from materials such as clean gravel which will cause little or no siltation. Normal flows must be restored to the affected stream immediately upon completion of work at that location.
- K. **Re-vegetation and Stabilization.** All areas that have 14 or more days of inactivity must be stabilized within 14 days of the last activity. The Applicant shall implement and maintain BMPs to prevent erosion of the rough graded areas. After completion of grading, all areas must be re-vegetated with native species appropriate for the area. The re-vegetation palette must not contain any plants listed on the California Invasive Plant Council Invasive Plant Inventory, which can be accessed at <http://www.cal-ipc.org/ip/inventory/>.

- L. **Hazardous Materials.** Except as authorized by this Certification, substances hazardous to aquatic life including, but not limited to, petroleum products, unused cement/concrete, asphalt, and coating materials, must be prevented from contaminating the soil and/or entering waters of the United States and/or State. BMPs must be implemented to prevent such discharges during each Project activity involving hazardous materials.
- M. **Vegetation Removal.** Removal of vegetation must occur by hand, mechanically, or through application of United States Environmental Protection Agency (USEPA) approved herbicides deployed using applicable BMPs to minimize adverse effects to beneficial uses of waters of the United States and/or State. Discharges related to the application of aquatic pesticides within waters of the United States must be done in compliance with State Water Resources Control Board Water Quality Order No. 2004-0009-DWQ, the *Statewide General National Pollution Discharge Elimination System Permit for the Discharge of Aquatic Weed Control in Waters of the United States*, and any subsequent reissuance as applicable.
- N. **Limits of Disturbance.** The Applicant shall clearly define the limits of Project disturbance to waters of the United States and/or State using highly visible markers such as flag markers, construction fencing, or silt barriers prior to commencement of Project construction activities within those areas.
- O. **On-site Qualified Biologist.** The Applicant shall designate an on-site qualified biologist to monitor Project construction activities within or adjacent to waters of the United States and/or State to ensure compliance with the Certification requirements. The biologist shall be given the authority to stop all work on-site if a violation of this Certification occurs or has the potential to occur. Records and field notes of the biologist's activities shall be kept on-site and made available for review upon request by the San Diego Water Board.
- P. **Beneficial Use Protection.** The Applicant must take all necessary measures to protect the beneficial uses of waters of the unnamed tributary to the Otay River, its tributaries, or the Otay River. This Certification requires compliance with all applicable requirements of the Basin Plan. If at any time, an unauthorized discharge to surface waters (including rivers or streams) occurs or monitoring indicates that the Project is violating, or threatens to violate, water quality objectives, the associated Project activities shall cease immediately and the San Diego Water Board shall be notified in accordance with Notification Requirement VI.B of this Certification. Associated Project activities may not resume without approval from the San Diego Water Board.

IV. PROJECT IMPACTS AND COMPENSATORY MITIGATION

- A. **Project Impact Avoidance and Minimization.** The Project must avoid and minimize adverse impacts to waters of the United States and/or State to the maximum extent practicable.

B. Project Impacts and Compensatory Mitigation. Unavoidable Project impacts to unnamed tributary of Otay River within the Otay 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)
Permanent Impacts						
Wetland	0.0110 ^a	58 ^a	b	b	b	b
Temporary Impacts^c						
Wetland	0.0014 ^d	d	N/A	N/A	N/A	N/A

N/A – Not applicable.

- a. Permanent impacts of 0.011 acre of waters of the United States and/or State from the removal of existing headwalls, damaged reinforced concrete pipes, and soil and concrete fill, installation of two bridge abutments near the top of bank, and re-grading of the drainage to restore contours.
- b. The Project will result in the removal of a structure from the stream channel and restoration of the natural flow regime and vegetation; therefore, no compensatory mitigation is required for permanent impacts.
- c. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native species.
- d. Temporary impact of 0.0014 acre (14 linear feet) of waters of the United State and/or State. The linear-foot length of the impacts is within the same footprint as the permanent impacts.

C. Revegetation Plan Implementation. The Applicant must fully and completely implement the San Diego Gas and Electric eTS 34824 Otay Mesa Access Road Repair Revegetation Plan (Revegetation Plan), dated July 26, 2018,³ prepared on behalf of the Applicant by ICF.

D. 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.

³ Revegetation Plan received on September 13, 2018, document handle 3758023.

V. MONITORING AND REPORTING REQUIREMENTS

- A. **Representative Monitoring.** Samples and measurements taken for the purpose of monitoring under this Certification shall be representative of the monitored activity.
- B. **Monitoring Reports.** Monitoring results shall be reported to the San Diego Water Board at the intervals specified in section V of this Certification.
- C. **Monitoring and Reporting Revisions.** The San Diego Water Board may make revisions to the monitoring program at any time during the term of this Certification and may reduce or increase the number of parameters to be monitored, locations monitored, the frequency of monitoring, or the number and size of samples collected.
- D. **Records of Monitoring Information.** Records of monitoring information shall include:
1. The date, exact place, and time of sampling or measurements;
 2. The individual(s) who performed the sampling or measurements;
 3. The date(s) analyses were performed;
 4. The individual(s) who performed the analyses;
 5. The analytical techniques or methods used; and
 6. The results of such analyses.
- E. **Geographic Information System Data.** The Applicant must submit Geographic Information System (GIS) shape files of the Project impact sites within 30 days of the start of project construction and GIS shape files of the Project mitigation sites within 30 days of mitigation installation. All impact and mitigation site shape files must be polygons. Two GPS readings (points) must be taken on each line of the polygon and the polygon must have a minimum of 10 points. GIS metadata must also be submitted.
- F. **Annual Project Progress Reports.** The Applicant must submit annual Project progress reports describing status of BMP implementation and compliance with all requirements of this Certification to the San Diego Water Board prior to **March 1** of each year following the issuance of this Certification, until the Project has reached completion. Annual Project Progress Reports must be submitted even if Project construction has not begun. The monitoring period for each Annual Project Progress Report shall be January 1st through December 31st of each year. Annual Project Progress Reports must include, at a minimum, the following:

Project Status and Compliance Reporting. The Annual Project Progress Report must include the following Project status and compliance 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 including the installation and operational status of best management practices project features for erosion and storm water quality treatment;
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.
5. Status and monitoring reporting information specified in the On-site Restoration Plan must be submitted as part of the Annual Project Progress reporting for a period of not less than 5 years, sufficient to demonstrate that the goals of the plan have been met.

G. 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. BMP installation and operational status for the Project;
4. As-built drawings of the Project, no bigger than 11"X17"; and
5. 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/StreamPhotoDocSOP.pdf. In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced.

H. 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.

- I. **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. 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. R9-2017-0126:839360:lhonma
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. R9-2017-0126:839360:lhonma.

- J. **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.

- K. **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. **Discharge Commencement Notification.** The Applicant must notify the San Diego Water Board in writing **at least 5 days prior to** the start of Project construction.
- B. **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.
- C. **Hazardous Substance Discharge.** Except as provided in Water Code section 13271(b), any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, shall as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the County of San Diego, in accordance with California Health and Safety Code section 5411.5 and the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.17), and immediately notify the State Water Board or the San Diego Water Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of section 13271 of the Water Code unless the Applicant is in violation of a Basin Plan prohibition.

- D. Oil or Petroleum Product Discharge.** Except as provided in Water Code section 13272(b), any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.1). This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Clean Water Act section 311, or the discharge is in violation of a Basin Plan prohibition.
- E. 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.
- F. 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 responsibility for compliance with this Certification in the event that a transferee fails to comply.

VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The San Diego Water 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 determined that the Project is categorically exempt.⁴
- B. The San Diego Water Board finds that the Project replaces an existing structure where the new structure will be located on the same site and have substantially the same purpose and capacity as the structure being replaced, and that, if implemented as proposed, the conditions in this Certification are adequate to reduce water quality impacts to less than significant levels.
- C. As a Lead Agency under CEQA, the San Diego Water Board will file a Notice of Exemption in accordance with CEQA Guidelines section 15062.

VIII. SAN DIEGO WATER BOARD CONTACT PERSON

Lisa Honma, Environmental Scientist
Telephone: (619) 521-3367
Email: Lisa.Honma@waterboards.ca.gov

⁴ 14 CCR section 15302

IX. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **eTS 34824 Otay Mesa Access Road Repair Project** (Certification No. R9-2017-0126) 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 Applicant's 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. R9-2017-0126 issued on November 27, 2018.



DAVID W. GIBSON
Executive Officer
San Diego Water Board

27 Nov. 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.

Waters of the State - means any surface water or groundwater, including saline waters, within the boundaries of the State. [Water Code section 13050, subd. (e)].

Mr. Jason Kapchinske
San Diego Gas and Electric
eTS 34824 Otay Mesa Access Road Repair Project
File No. R9-2017-0126

**ATTACHMENT 2
PROJECT FIGURES AND PLANS**

Figure 1 – Regional Vicinity Map

Figure 2 – Project Location

Figure 3 – Impacts to Jurisdictional Resources

Construction Plans for SDG&E Culvert Replacement TL649, Z31733-Z31734, Sheets 1-7



Figure 1
Regional Vicinity Map
eTS 38424 Access Road Repair Project



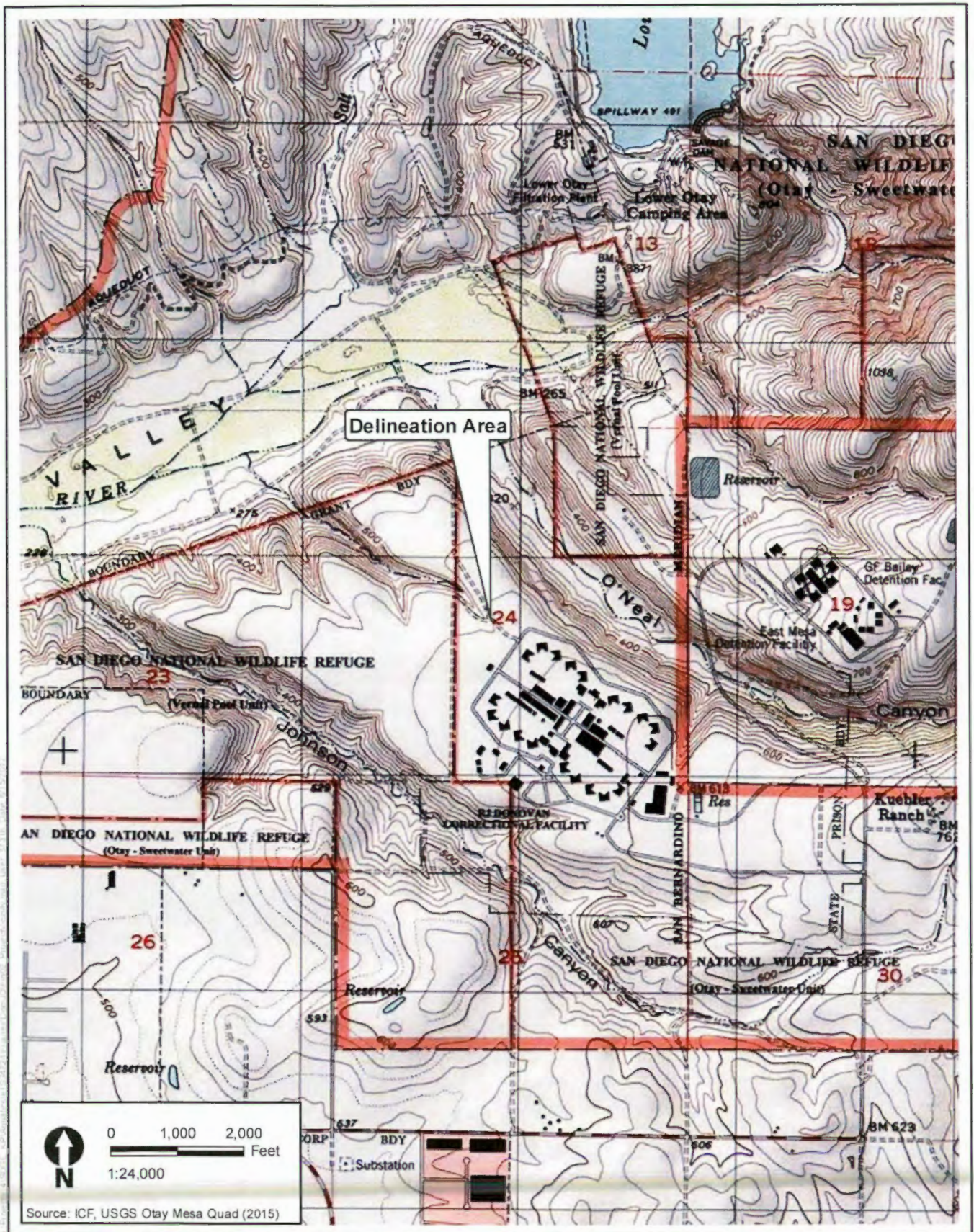


Figure 2
 Project Location
 eTS 38424 Access Road Repair Project



Figure 3
Impacts to Jurisdictional Resources
eTS 38424 Access Road Repair Project

SDG&E CULVERT REPLACEMENT TL649, Z31733-Z31734 COUNTY OF SAN DIEGO



GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN:

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION
2016 CALIFORNIA BUILDING CODE

DEAD LOAD: INCLUDES 18 PSF FOR FUTURE WEARING SURFACE

LIVE LOADING: HS20

REINFORCED CONCRETE: $f'_c=80,000$ p.s.i., ASTM A815
 $f_y=4000$ p.s.i.

ITEM: MAX. SLUMP: MAX. AGGREGATE SIZE

ABUTMENT AND FOOTINGS: 4" 1"

MAXIMUM SLUMP OF 8" PERMITTED AFTER INTRODUCTION OF A "SUPERPLASTICIZER". (USE MUST BE APPROVED BY STRUCTURAL ENGINEER OF RECORD.)

STRUCTURAL STEEL: WIDE FLANGE SECTIONS - ASTM A992
ALL OTHER SECTIONS AND PLATES - ASTM A572
UNLESS OTHERWISE SPECIFIED
WELDS - E70 SERIES ELECTRODES
BOLTS - ASTM A325 PRETENSIONED

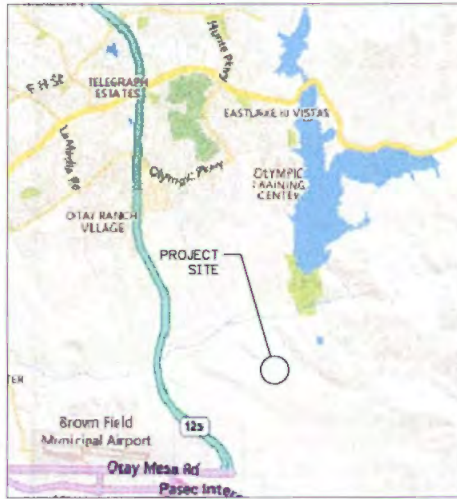
SEISMIC LOADING: SITE CLASS D
RISK CATEGORY IV ($I_m=1.0$)
 $S_m = 0.633g$
 $R = 3$
ANALYSIS BY EQUIVALENT LATERAL FORCE
DESIGN BASE SHEAR = $0.32 \times$ SEISMIC WEIGHT

GEOTECHNICAL REPORT:

VO ENGINEERING PROJECT NO. V-0530-C
DATED MARCH 20, 2018
ALLOWABLE BEARING PRESSURE = 2000 PSF
PLUS 500 PSF PER FOOT OF EMBEDMENT GREATER THAN 2 FEET

SPECIFICATIONS:

STANDARD SPECIFICATIONS FOR
PUBLIC WORKS CONSTRUCTION, 2015 EDITION



VICINITY MAP



LOCATION MAP

SHEET INDEX	
SHEET NO.	SHEET TITLE
T-1	TITLE SHEET
SG-1	GENERAL STRUCTURAL REQUIREMENTS
S-1	BRIDGE PLAN AND ELEVATION
S-2	BRIDGE FOUNDATION/OVER-EXCAVATION PLAN
S-3	BRIDGE SECTION
S-4	BRIDGE FRAMING PLAN AND SECTION
S-5	TYPICAL ABUTMENT SECTION AND DETAILS

OWNER'S / PERMITTEE'S

NAME: SAN DIEGO GAS & ELECTRIC

ADDRESS: 8328 CENTURY PARK COURT
SAN DIEGO, CA 92123

TELEPHONE NO: _____

SHORT LEGAL DESCRIPTION: _____

A.P.N. NO: _____

SITE ADDRESS: _____



FIRE DEPARTMENT APPROVAL

FIRE DEPT. / DISTRICT: _____

APPROVED BY: _____

DATE: _____

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 47009 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT COMPLIANCE AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS LIMITED TO REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OR MY RESPONSIBILITIES FOR PROJECT DESIGN.

BY: _____ DATE: _____

SEE NO. 18230 / SE. NO. 1825 EXPIRES: 6/30/19

PDS ENVIRONMENTAL REVIEW

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW:

APPROVED BY: _____

DATE: _____

NOTICE: THE SIGNATURE OF THIS REPRESENTATIVE BY THE COUNTY OF SAN DIEGO DOES NOT CONSTITUTE THE SIGNATURE FOR USE IN PERMITTING, TO VULNERATE FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR PUBLIC POLICIES, BUT IS LIMITED TO THE FEDERAL ENGINEERING SPECIFICATIONS ACT AND ANY AMENDMENTS THEREIN.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY:	DATE:

PERMITS

LANDSCAPE PERMIT NO: _____

WQ/NO NO: _____

TENTATIVE MAP NO: _____

BENCH MARK

DESCRIPTION: _____

LOCATION: _____

RECORD FROM: _____

ELEVATION: _____ DATUM: _____

PRIVATE CONTRACT

SHEET: 1 COUNTY OF SAN DIEGO SHEETS: 7
(DEPARTMENT OF PUBLIC WORKS)

SDG&E CULVERT REPLACEMENT TL649
TITLE SHEET

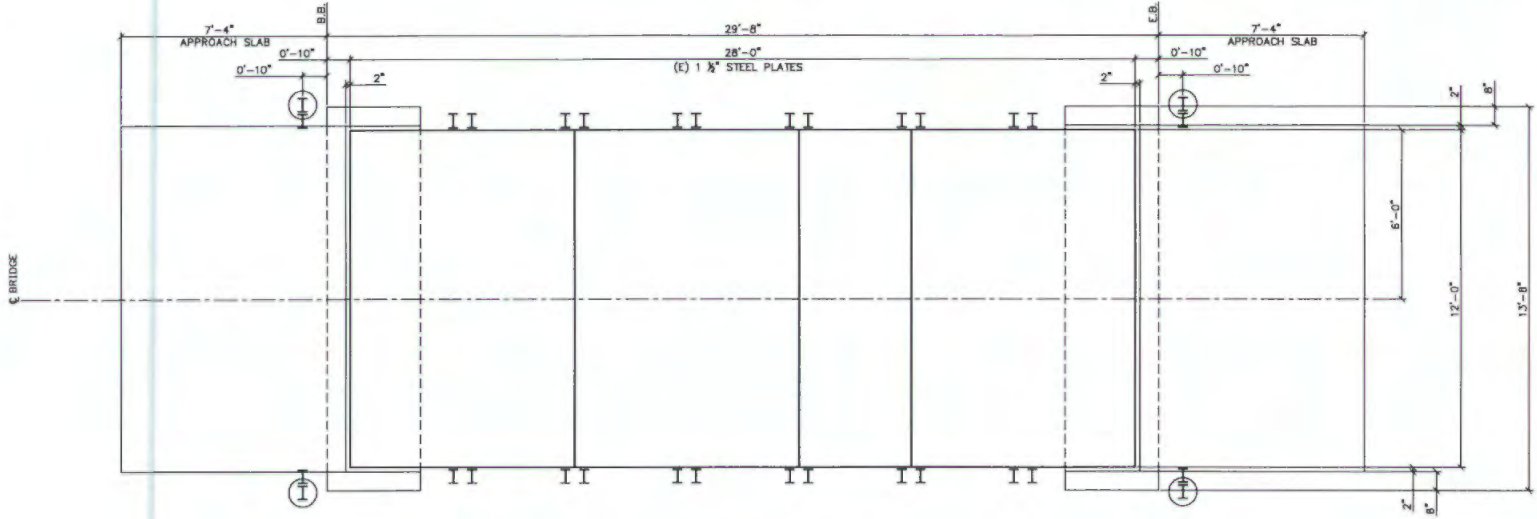
CALIFORNIA COORDINATE INDEX: 208-5280

PROJECT NO: 18230

SEE CERTIFICATION

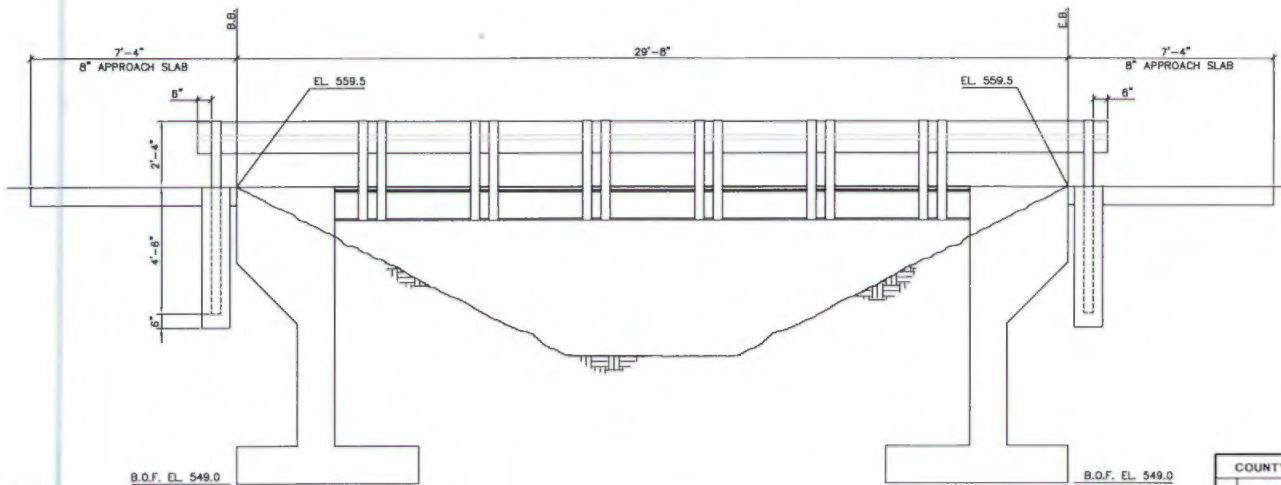
T-1

ABBREVIATIONS		STRUCTURAL OBSERVATION		STATEMENT OF SPECIAL INSPECTIONS REQUIRED INSPECTIONS AND VERIFICATIONS FOR EARTHWORK, CONCRETE, AND STEEL			GENERAL STRUCTURAL NOTES	
A.B.	ANCHOR BOLT (ROD)	STRUCTURAL OBSERVATION REQUIREMENTS	THE OWNER SHALL EMPLOY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN, OR ANOTHER ENGINEER DESIGNATED BY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN THE 2016 CALIFORNIA BUILDING CODE. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR, AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES THAT, IN THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.	TYPE OF WORK	INSPECTION TYPE	REFERENCED STANDARD	GENERAL	
A.C.	ADJUSTMENT	STRUCTURAL OBSERVATION SHALL BE PERFORMED AT THE FOLLOWING STAGES OF CONSTRUCTION:		1. SOIL CONDITIONS AND PLACEMENT	CONTINUOUS	"GREENBOOK"	1. EXCEPT AS OTHERWISE INDICATED, THE CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SPPWC GREENBOOK).	
A.D.	ADDITIONAL			A. OBSERVE EXCAVATIONS AND VERIFY MATERIALS BELOW GRADE ARE ADEQUATE TO ACHIEVE DESIGN LATERAL BEARING CAPACITY.	PERIODIC		2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK. THE ENGINEER OF RECORD SHALL BE NOTIFIED OF ANY DISCREPANCIES.	
A.E.	ALTERNATE			B. VERIFY THAT EXCAVATIONS EXTEND TO PROPER DEPTH, DIMENSIONS, AND MATERIAL.	CONTINUOUS		3. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ADEQUATE ERECTION, SHORING, AND BRACING AS REQUIRED FOR STABILITY OF ALL STRUCTURES AND EMBANKMENTS DURING ALL PHASES OF CONSTRUCTION.	
A.F.	APPROXIMATE			C. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	PERIODIC		4. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.	
B.B.	BEGIN BRIDGE			D. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	PERIODIC		5. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES, VALVE PITS OR VAULTS, AND SHALL NOT PERFORM ANY WORK THAT WILL DAMAGE OR INTERFERE WITH THEIR SERVICE.	
B.M.	BOTTOM OF FOOTING			E. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC		6. STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO MECHANICAL, ELECTRICAL, AND OTHER UTILITY ELEMENTS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.	
B.O.F.	BOTTOM OF STEEL			F. VERIFY MATERIALS BELOW FOOTING ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY.	PERIODIC		7. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING FACILITIES AND UTILITIES AND SHALL NOT PERFORM ANY WORK THAT WILL DAMAGE OR INTERFERE WITH THEIR SERVICE.	
B.O.T.	BOTTOM			G. VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND MATERIAL.	PERIODIC		8. THE CONTRACT DRAMINGS REPRESENT THE FINISHED STRUCTURES. THEY DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT EXISTING AND NEW STRUCTURES DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING, ETC. FOR ALL CONSTRUCTION PHASE LOADS.	
B.C.	CALIFORNIA BUILDING CODE			H. OBSERVE SUBGRADE PRIOR TO FILL PLACEMENT FOR PROPER PREPARATION.	PERIODIC		9. DURING THE ENTIRE CONSTRUCTION PERIOD, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONDITIONS AT THE JOB SITE SO AS TO MEET IN ALL RESPECTS ALL APPLICABLE SAFETY LAWS, RULES, ORDINANCES AND REGULATIONS. THIS PROVISION SHALL APPLY TO ALL PERSONNEL EMPLOYED OR SUPERVISED BY THE CONTRACTOR AT THE JOB SITE.	
B.I.P.	BOTTOM OF IN PLACE						10. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE.	
B.O.	BOTTOM OF JOINT PENETRATION							
C.C.	CENTER LINE							
C.J.P.	CLEAR JOINT							
C.L.	CLEAR CONCRETE MASONRY UNITS							
C.O.	COLUMN(S)							
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C.C.	COMPLETE JOINT PENETRATION							
C.C.	CENTER LINE							
C.C.	CLEAR CONCRETE MASONRY UNITS							
C.C.	COLUMN(S)							
C.C.	CONCRETE CONSTRUCTION CONTINUOUS CENTER							
C.C.	CUBIC FOOT, FEET							
C.C.	CONSTRUCTION JOINT, CONTROL JOINT OR COLD JOINT							
C.C.	COMPLETE JOINT PENETRATION							
C.C.	CENTER LINE							
C.C.	CLEAR CONCRETE MASONRY UNITS							
C.C.	COLUMN(S)							
C.C.	CONCRETE CONSTRUCTION CONTINUOUS CENTER							
C.C.	CUBIC FOOT, FEET							
C.C.	CONSTRUCTION JOINT, CONTROL JOINT OR COLD JOINT							
C.C.	COMPLETE JOINT PENETRATION							
C.C.	CENTER LINE							
C.C.	CLEAR CONCRETE MASONRY UNITS							
C.C.	COLUMN(S)							
C.C.	CONCRETE CONSTRUCTION CONTINUOUS CENTER							
C.C.	CUBIC FOOT, FEET							
C.C.	CONSTRUCTION JOINT, CONTROL JOINT OR COLD JOINT							
C.C.	COMPLETE JOINT PENETRATION							
C.C.	CENTER LINE							
C.C.	CLEAR CONCRETE MASONRY UNITS							
C.C.	COLUMN(S)							
C.C.	CONCRETE CONSTRUCTION CONTINUOUS CENTER							
C.C.	CUBIC FOOT, FEET							
C.C.	CONSTRUCTION JOINT, CONTROL JOINT OR COLD JOINT							
C.C.	COMPLETE JOINT PENETRATION							
C.C.	CENTER LINE							
C.C.	CLEAR CONCRETE MASONRY UNITS							
C.C.	COLUMN(S)							
C.C.	CONCRETE CONSTRUCTION CONTINUOUS CENTER							
C.C.	CUBIC FOOT, FEET							
C.C.	CONSTRUCTION JOINT, CONTROL JOINT OR COLD JOINT							
C.C.	COMPLETE JOINT PENETRATION							
C.C.	CENTER LINE							
C.C.	CLEAR CONCRETE MASONRY UNITS							
C.C.	COLUMN(S)							
C.C.	CONCRETE CONSTRUCTION CONTINUOUS CENTER							
C.C.	CUBIC FOOT, FEET							
C.C.	CONSTRUCTION JOINT, CONTROL JOINT OR COLD JOINT							
C.C.	COMPLETE JOINT PENETRATION							
C.C.	CENTER LINE							
C.C.	CLEAR CONCRETE MASONRY UNITS							
C.C.	COLUMN(S)							
C.C.	CONCRETE CONSTRUCTION CONTINUOUS CENTER							
C.C.	CUBIC FOOT, FEET							
C.C.	CONSTRUCTION JOINT, CONTROL JOINT OR C							



BRIDGE PLAN

SCALE: 1/2" = 1'-0"



BRIDGE ELEVATION

SCALE: 1/2" = 1'-0"

S-1

BRADY
3055 Camino del Rio North, Ste. 100
SAN DIEGO, CA 92108



BENCH MARK

DESCRIPTION: _____

LOCATION: _____

RECORD FROM: _____

ELEVATION: _____ DATE: _____

COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

PRIVATE CONTRACT

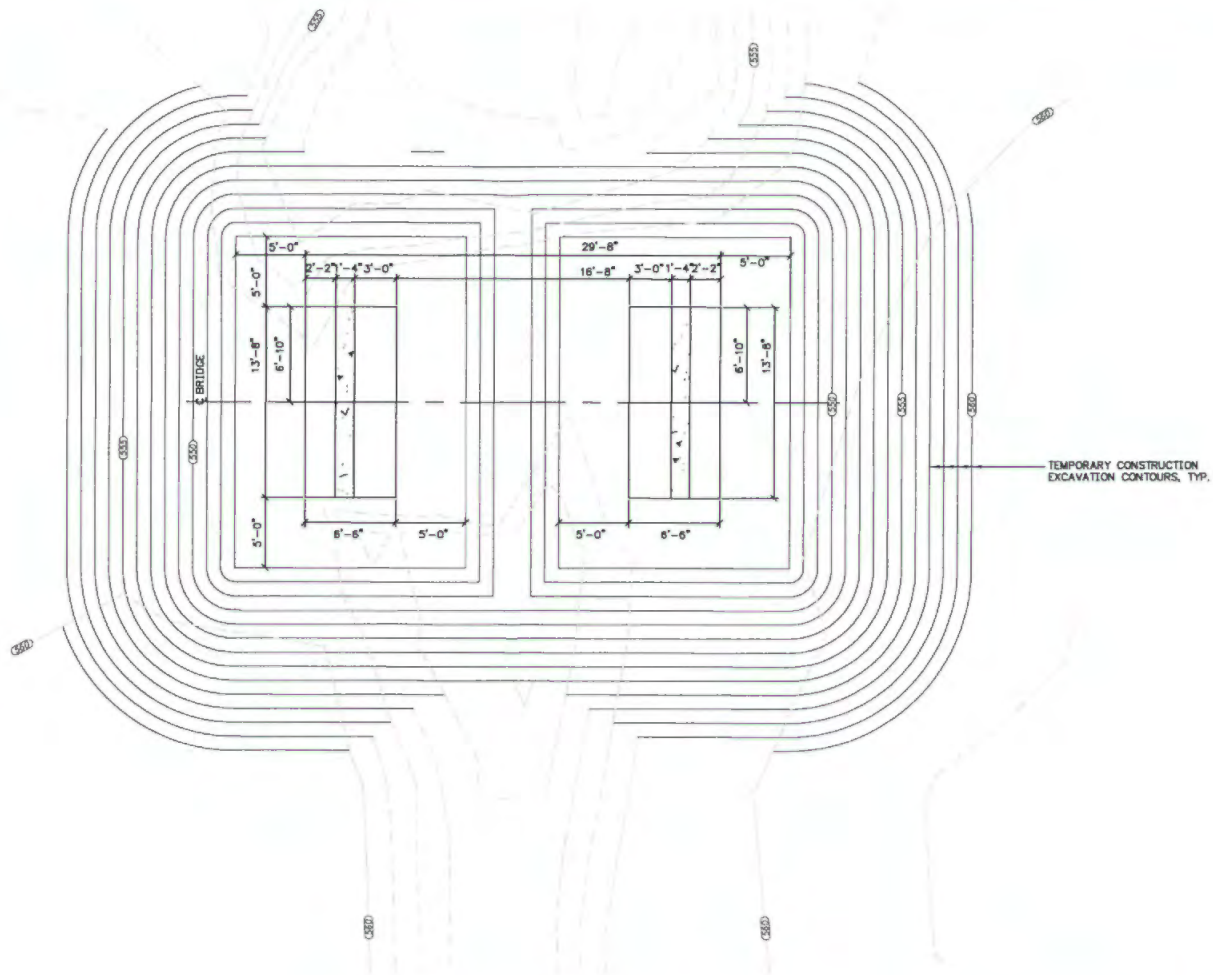
SHEET 3 COUNTY OF SAN DIEGO SHEET 7
DEPARTMENT OF PUBLIC WORKS

SDG&E CULVERT REPLACEMENT TL649
BRIDGE PLAN AND ELEVATION

CALIFORNIA COORDINATE INDEX

PROJECT OR QUOTE # 18333
DATE ISSUED 10/18/18
DRAWN BY JG

SEE CERTIFICATION



TEMPORARY CONSTRUCTION EXCAVATION CONTOURS, TYP.

BRIDGE FOUNDATION/ OVER-EXCAVATION PLAN

Scale: 1" = 4'

1
S-1

S-2

BRADY
2855 Camino del Rio North, Ste. 100
San Diego, CA 92108



BENCH MARK

DESCRIPTION: _____

LOCATION: _____

RECORD FROM: _____

ELEVATION: _____ DATE: _____

COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

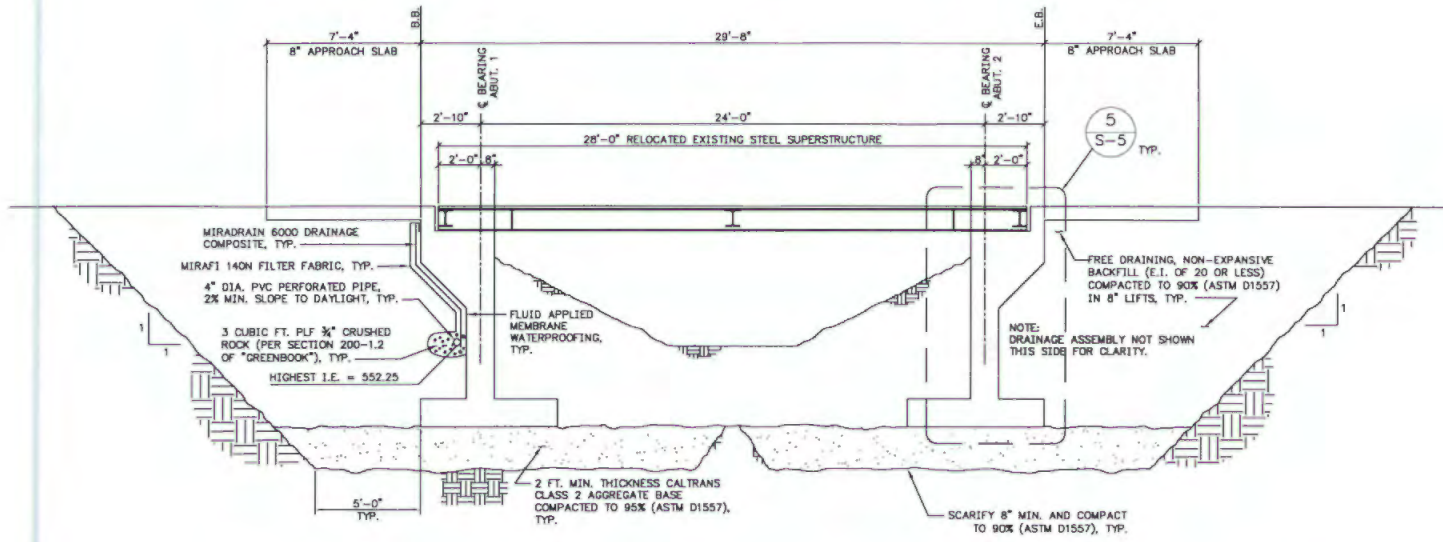
PRIVATE CONTRACT

SHEET 4 COUNTY OF SAN DIEGO SHEET 7
DEPARTMENT OF PUBLIC WORKS

SDG&E CULVERT REPLACEMENT TL649
BRIDGE FOUNDATION/OVER-EXCAVATION PLAN
CALIFORNIA COORDINATE INDEX

DATE OF PLAN: 10/20/16
ELEV. MARK: 18330
DRAWN BY: [Signature]

SEE CERTIFICATION

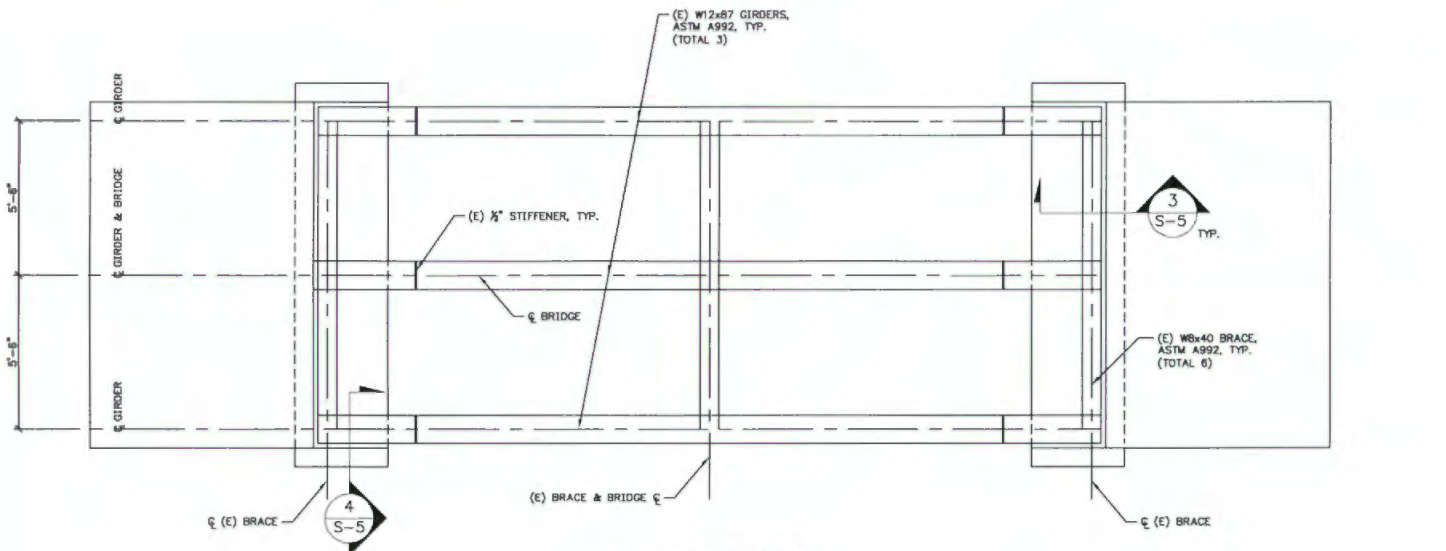


BRIDGE SECTION
SCALE: 3/8" = 1'-0"

S-3

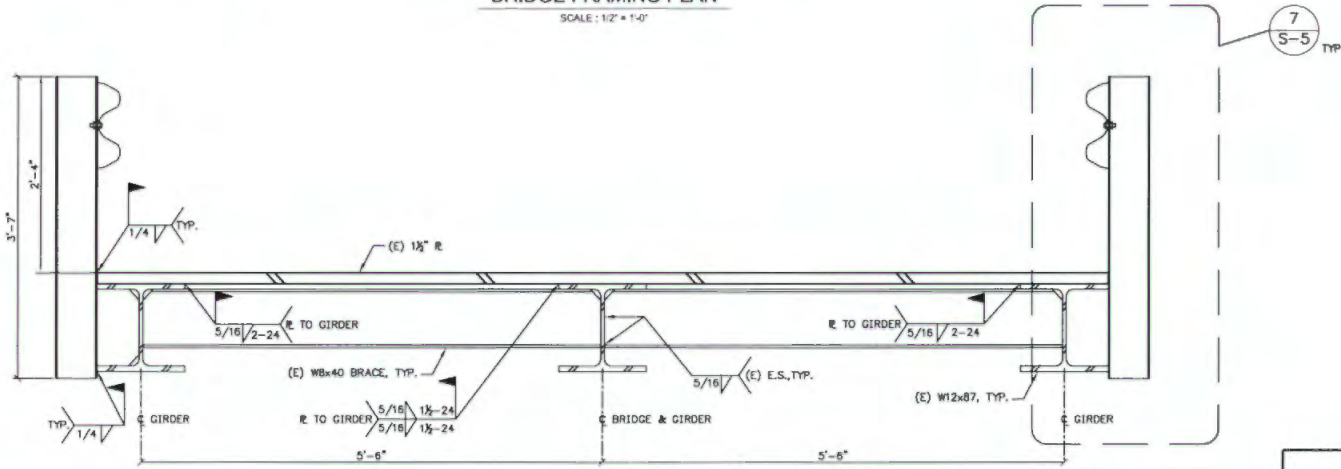


COUNTY APPROVED CHANGES NO. DESCRIPTION APPROVED BY DATE			SHEET 5 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS		SHEET 7
			BENCH MARK DESCRIPTION: _____ LOCATION: _____ RECORD FROM: _____ ELEVATION: _____ DATE: _____		



BRIDGE FRAMING PLAN

SCALE: 1/2" = 1'-0"



BRIDGE SECTION

SCALE: 1-1/2" = 1'-0"

S-4



BENCH MARK

DESCRIPTION: _____

LOCATION: _____

RECORD FROM: _____

ELEVATION: _____ DATUM: _____

COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

PRIVATE CONTRACT

SHEET 6 COUNTY OF SAN DIEGO SHEETS 2
 DEPARTMENT OF PUBLIC WORKS

SDG&E CULVERT REPLACEMENT TL649
 BRIDGE FRAMING PLAN AND SECTION

CALIFORNIA COORDINATE INDEX

APPROVED FOR RECORD BY: _____ PROJECT NO. 18130
 COUNTY ENGINEER: _____ DRAWN BY: _____

SEE CERTIFICATION

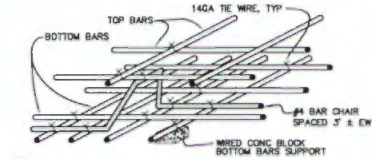
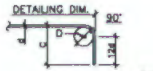
DIMENSION TABLE FOR 90° AND 180° HOOKS

BAR SIZE	A IN.	B IN.	C IN.	D IN.
#3	5	3	8	2 1/4
#4	6	4	8	3
#5	7	5	10	3 3/4
#6	8	6	12	4 1/2
#7	10	7	14	5 1/4
#8	11	8	16	6
#9	15	11 3/4	19	8 1/2
#10	17	13 1/4	22	10 1/4
#11	19	14 3/4	24	12

DIMENSION TABLE FOR 135° HOOKS

BAR SIZE	D IN.	E IN.	F IN.
#3	1 1/2	4 1/4	3
#4	2	4 1/2	3
#5	2 1/2	5 1/2	3 3/4
#6	4 1/2	8	4 1/2

NOTES:
1. UNLESS OTHERWISE NOTED, THESE DIMENSIONS SHALL BE USED FOR ALL INDICATED HOOKS



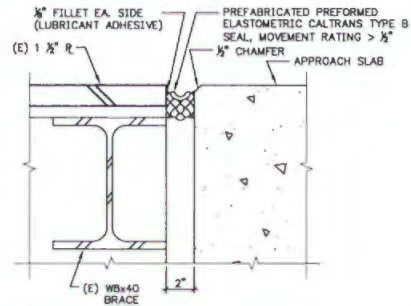
NOTES:
1. REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY OTHER METAL INSTALLATION OR ACCESSORY EMBEDDED IN CONCRETE. A MINIMUM OF 2" CLEARANCE SHALL BE PROVIDED IN ALL CASES.

TYPICAL STANDARD HOOKS IN REINFORCING BARS DETAIL
SCALE: NONE

1
S-5

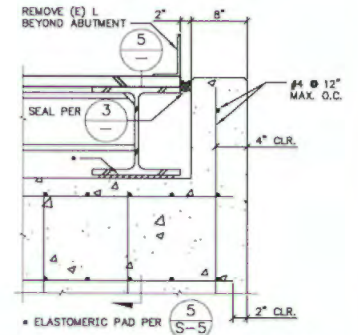
TYPICAL BARS SUPPORT DETAIL
SCALE: NONE

2
S-5



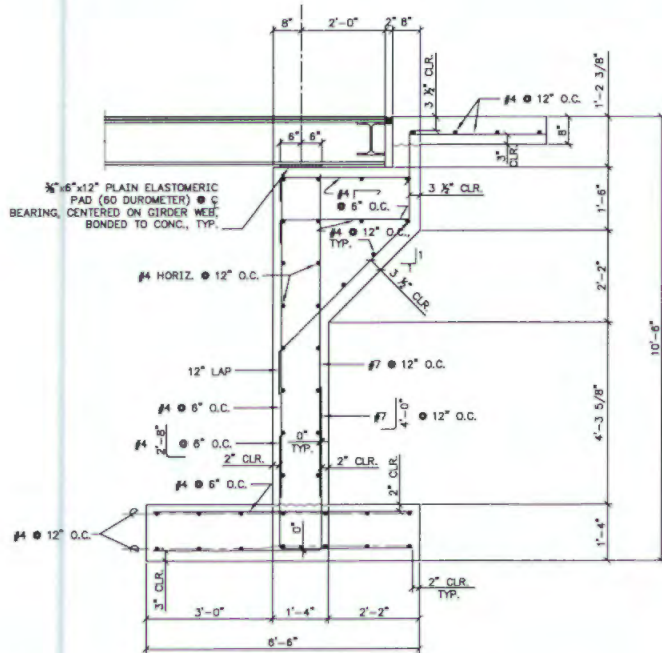
JOINT SEAL DETAIL
SCALE: 3" = 1'-0"

3
S-5



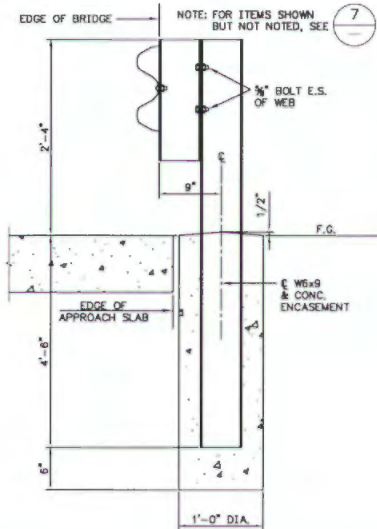
TYPICAL ABUTMENT EDGE DETAIL
SCALE: 1 1/2" = 1'-0"

4
S-5



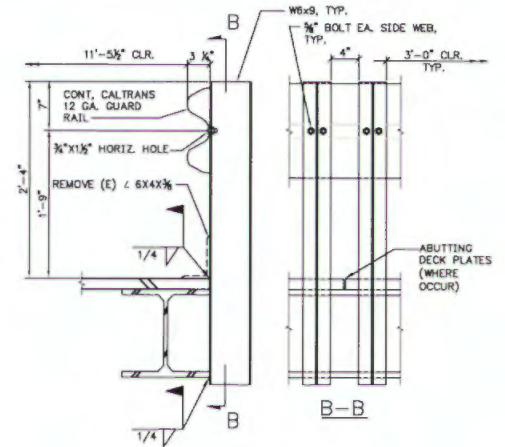
TYPICAL ABUTMENT SECTION DETAIL
SCALE: 3/4" = 1'-0"

5
S-5



OFF-BRIDGE GUARDRAIL DETAIL
SCALE: 1 1/2" = 1'-0"

6
S-5



TYPICAL GUARDRAIL DETAIL
SCALE: 1 1/2" = 1'-0"

7
S-5

S-5

BRADY
3055 Camino del Rio North, Suite 100
San Diego, CA 92108



COUNTY APPROVED CHANGES			
NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK	
DESCRIPTION:	
LOCATION:	
RECORD FROM:	
ELEVATION:	

PRIVATE CONTRACT		
SHEET 7	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	SHEET 7
SDG&E CULVERT REPLACEMENT TL649 TYPICAL ABUTMENT SECTION AND DETAILS		
CALIFORNIA COORDINATE INDEX		
DATE OF PLAN: 11/20/18	ISSUED BY: [Signature]	DATE: 11/20/18
SEE CERTIFICATION		

EROSION CONTROL NOTES

1. ALL BUILDING PADS TO BE Diked AND Dikes MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PAD INTO THE STREETS AND DRIVEWAYS AND WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
2. TOPS OF ALL SLOPES TO BE Diked OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
3. MANUFACTURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORIZONTALLY AS APPROPRIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY.
4. AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN OCTOBER 1, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH A HYDROCOLLOID MIXTURE OR AN EQUAL TREATMENT APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. BETWEEN OCTOBER 1 AND APRIL 15, APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
5. CATCH BASINS, DESILTING BASINS, AND STORM DRAIN SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS.
6. SAND BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHER GRADED OR EXCAVATED AREAS AS REQUIRED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.
7. THE DEVELOPER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF THE SAME BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER TO REMOVE ALL SOBS, INTERCEPTED BY THE SAND BAGS, CATCH BASINS AND DESILTING BASINS AND KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS. THE DEVELOPER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE COUNTY DEPARTMENT OF PUBLIC WORKS.

SILTATION AND SEDIMENT CONTROL MEASURES NOTES

1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEANED TO DESIGN CAPACITY AFTER EVERY RUNOFF PRODUCING STORM. THE BASINS SHOULD BE SEMI-PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL ERODIBLE SLOPES.
2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE COUNTY ENGINEER.
3. SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH SANDBAG Dikes OR BASH INLET Dikes SHALL BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE.
4. ALL UTILITY TRENCHES SHALL BE BLOKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF SANDBAGS WITH A TOP ELEVATION TWO SANDBAGS BELOW THE GRADED SURFACE OF THE STREET. SANDBAGS ARE TO BE PLACED WITH LAPPED JOINTS. THE INTERVALS PRESCRIBED BETWEEN SANDBAG BLOKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE BUT NOT TO EXCEED THE FOLLOWING:

GRADE OF THE STREET	INTERVAL AS REQUIRED
LESS THAN 2%	100 FEET
2% TO 4%	50 FEET
4% TO 10%	25 FEET
OVER 10%	25 FEET

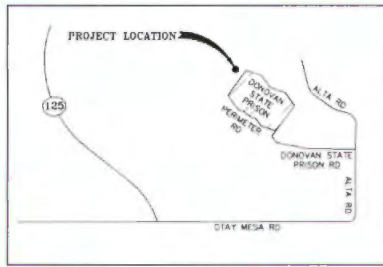
5. AFTER SEWER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDING SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTERLINE OF A GRADED STREET.
6. ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.
7. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 2%	100 FEET
2% TO 6%	50 FEET
OVER 6%	25 FEET

8. PROVIDE VELOCITY CHECK DAMS IN ALL PAVED STREET AREAS ACCORDING TO RECOMMENDED CRITERIA INDICATED ON THE ENCLOSED GRAPH ENTITLED "SANDBAG BARRIER SPACING FOR EROSION CONTROL IN GRADED STREETS". VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF SANDBAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE COUNTY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS.
9. PROVIDE A SANDBAG SILT BASIN OR TRAP BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING DRAIN SYSTEM.
10. SANDBAGS AND FILL MATERIAL SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.
11. ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD BE MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM. IF POSSIBLE, MAINTENANCE CREWS SHOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.
12. PROVIDE ROCK RIPRAP ON CURBS AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DEMISED SLOPES OR FROM IMPERVIOUS SURFACES.
13. ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE AGENCIES, I.E. COUNTY ENGINEER, DEPARTMENT OF SANITATION AND FLOOD CONTROL, OFFICE OF ENVIRONMENTAL MANAGEMENT, ETC.

STORMWATER PROTECTION NOTES

1. DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM. 125% OF ALL SUPPLIES NEEDED FOR BMP MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST RAIN.
2. NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE SAN DIEGO COUNTY DOW DIRECTOR'S SATISFACTION THAT ADEQUATE EROSION AND SEDIMENT CONTROL CAN BE MAINTAINED. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION UNTIL ADEQUATE LOW-TERM PROTECTIONS ARE INSTALLED. THE DISTURBED AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.
3. THE PROPERTY OWNER IS OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. THE BMP'S (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORMWATER QUALITY. THE MAINTENANCE OF THE BMP'S IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMP'S MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS. IF INSTALLED BMP'S FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.
4. ON PROJECTS OF GREATER THAN 1 ACRE ADD THE FOLLOWING NOTE, NOT APPLICABLE:



CONTRACTOR'S NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD COUNTY OF SAN DIEGO HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF COUNTY OF SAN DIEGO PROFESSIONALS.

ENGINEER'S NOTE

UNAUTHORIZED CHANGES & USES. THE ENGINEER OF WORK PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

OWNER'S CERTIFICATE

IT IS AGREED THAT FIELD CONDITIONS MAY REQUIRE CHANGES TO THESE PLANS. IT IS FURTHER AGREED THAT THE OWNER (DEVELOPER) SHALL HAVE A REGISTERED CIVIL ENGINEER MAKE SUCH CHANGES, ALTERATIONS OR ADDITIONS TO THESE PLANS WHICH THE DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES DETERMINES ARE NECESSARY AND DESIRABLE FOR THE PROPER COMPLETION OF THE IMPROVEMENTS.

BY: _____ NAME _____ DATE _____
 ASSESSOR'S PARCEL NO. 646-040-20-00
 SAN DIEGO GAS & ELECTRIC
 8335 CENTURY PARK CT
 SAN DIEGO, CA 92123
 (618) 654-1201

WORK TO BE DONE

GRADING AND DRAINAGE WORK CONSISTS OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT SAN DIEGO AREA REGIONAL STANDARD ORDINANCE, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1997 EDITION AND PER THE SAN DIEGO COUNTY GRADING ORDINANCE.

LEGEND

DESCRIPTION	SYMBOL
SECTION STATIONING	BEGIN STATION / END STATION
CONTROL POINT	△ 440
FISHED GROUND CONTOUR	—
EXISTING GROUND CONTOUR	—
EXISTING GRADE	EG
FISHED GRADE	FG
FLOWLINE	FL
INVERT ELEVATION	IE
PROPOSED CUT/FILL SLOPE	TOP
PROPOSED FLAT CAR RAIL BRIDGE	—
AREA TO BE HYDRO-SEEDED	SS-4
GRAVEL BAYS	SS-6, SS-B
FIBER ROLLS	SC-5

GRADING SPECIFICATIONS

1. ALL GRADING SHALL BE DONE UNDER THE OBSERVATION OF A QUALIFIED SOILS ENGINEER, AND IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE REPORT ENTITLED "GEOTECHNICAL RECOMMENDATIONS" DATED MARCH 20, 2018. THESE PLANS SHALL BE CONFORMANT WITH THE SPECIFICATIONS SET FORTH IN THE REPORT ENTITLED "GEOTECHNICAL RECOMMENDATIONS" DATED MARCH 20, 2018.
2. ALL FILL MATERIAL SHALL BE COMPACTED TO 90% OR BETTER AND REPORTS SUBMITTED TO THE COUNTY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF WORK.
3. AT THE COMPLETION OF THE GRADING OPERATION, AN AS-GRAD SOILS REPORT WILL BE PREPARED. THIS REPORT WILL BE SUBMITTED TO THE FIELD INSPECTION SECTION OF THE COUNTY ENGINEER'S OFFICE WITHIN 15 DAYS OF THE COMPLETION OF GRADING.

SOILS ENGINEER CERTIFICATION

THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS OUTLINED IN THE SOILS AND GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. THE SOILS REPORT SHALL BE CONSIDERED PART OF THIS PLAN, AND ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF SAID REPORT DATED MARCH 20, 2018.

BY: _____ NAME: _____ DATE: _____
 SOILS ENG. R.G.C. G-3058 EXPIRES: N/A
 YO ENGINEERING
 1320 DODDING CREEK DR S #207
 SAN DIEGO, CA 92128
 (618) 391-8530

GENERAL NOTES

1. APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
2. FINAL APPROVAL OF THESE GRADING PLANS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINAL CURB ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
3. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
4. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
5. ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLACED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
6. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:
 SAN DIEGO GAS & ELECTRIC TELEPHONE NO. 1-800-422-4133
 PACIFIC TELEPHONE TELEPHONE NO. _____
 CITY TELEPHONE NO. _____
 SEWER TELEPHONE NO. _____
 WATER TELEPHONE NO. _____
7. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
8. APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND A VALID GRADING PERMIT HAS BEEN ISSUED.
9. THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING OFFICIAL APPROVAL, OR ANY FOUNDATION FOR STRUCTURES TO BE PLACED ON THE ITEMS COVERED BY THESE PLANS. NO WORKER OF THE GRADING ORDNANCE REQUIREMENTS CONCERNING MINIMUM COVER EXPANSIVE SOIL IS MADE OR IMPLIED (SECTIONS 87.433 & 87.415). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND LAND USE.
10. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 AM AND 5:00 PM EACH DAY, MONDAY THROUGH SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
11. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTINUED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ADJUTING CUT OR FILL SURFACES.
12. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJACENT PUBLIC STREET, SIDEWALK, UTILITY FUNCTION, OR ANY SERVICE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY, WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLE, CRACKING, EROSION, SLIDING, SCOUR, OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
13. SLOPE RATIOS:
 CUT - 1:1 FOR MINOR SLOPES UNDER 15% HIGH OR IN ROCK
 2:1 FOR MAJOR SLOPES
 FILL - 2:1
 EXCAVATION FILL
 WASTE/IMPORT: (NOTE: A SEPARATE VALID PERMIT MUST EXIST FOR EITHER WASTE OR IMPORT AREAS)
14. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS.
15. ALL GRADING DETAILS WILL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARD DRAWINGS DS-8, DS-10, DS-11, AND DS-75.
16. THE CONSTRUCTION OF ONE PCC STANDARD RESIDENTIAL DRIVEWAY PER LOT. LOCATION TO BE DETERMINED IN THE FIELD BY ENGINEER OF ROAD. PCC SURFACING OF DRIVEWAY TO EXTEND FROM CURB TO PROPERTY LINE. USE STANDARD DRAWINGS G-144, G-145, G-146, G-15 and G-18.
17. FINISHED GRADING SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER AND INSPECTED BY THE COUNTY ENGINEER FOR DRAINAGE CLEARANCE. APPROVAL OF ROUGH GRADING DOES NOT CERTIFY FINISH BECAUSE OF POTENTIAL SURFACE DRAINAGE PROBLEMS THAT MAY BE CREATED BY LANDSCAPING ACCOMPLISHED AFTER ROUGH GRADING CERTIFICATION.

EARTHWORK QUANTITIES	GROUND DISTURBANCE
CUT: 395 CY	3,800 S.F. (TEMPORARY)
FILL: 891 CY	400 S.F. (PERMANENT)
STRUCTURAL FILL	
CLASS 2 BASH IMPORT: 210 CY	
TOTAL EXPORT: 304 CY	

OWNER'S / PERMITTEE'S
 NAME: SAN DIEGO GAS & ELECTRIC
 ADDRESS: 8335 CENTURY PARK CT
 SAN DIEGO, CA 92123
 TELEPHONE NO. (618) 654-1201
 SHORT LEGAL DESCRIPTION: LOT 4, SECTION 34
 T18S, R17W
 PER R.O.S. 09732
 A.P.N. NO. 646-040-20-00
 SITE ADDRESS: LATITUDE 32.888637, LONGITUDE -116.937581

DIGALERT
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT
RECORD PLAN
 BY: JOHN A. HAYES DATE: _____
 R.C.E. 38803
 EXPIRES 8/30/2020

JOHN A. HAYES R.C.E. 38803 DATE: _____
DECLARATION OF RESPONSIBLE CHARGE
 I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE DESIGNED REVISIONS UNDER THE DESIGN OF THE PROJECT AS SET FORTH IN SECTION 610 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 COUNTY OF SAN DIEGO IS LIMITED TO CHECK ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.
 DATE: _____
 R.C.E. NO. _____ EXPIRES: _____

DEPT. OF PLANNING AND LAND USE
 COUNTY APPROVED CHANGES
 NO. _____ DESCRIPTION: _____ APPROVED BY: _____ DATE: _____
 APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW.
 APPROVED BY: _____ DATE: _____

HALE ENGINEERS
 1000 CALLE SAN DIEGO CA 92111 (619) 721-1420
 WWW.HALEENGINEERS.COM

PERMITS
 REZONE PERMIT NO. _____
 SPECIAL USE PERMIT NO. _____
BENCH MARK
 DESCRIPTION: 1/2" DIA. IN WELL MONUMENT STIMPED
 "VERTICAL CONTROL MARK"
 LOCATION: 10 FEET NORTHEASTERLY OF WATER AIR VAC.
 RECORD FROM CHS&A VISTA SURVEY CONTROL NETWORK
 POINT: 1027
 ELEVATION: 673.129 FT DATUM: NAVD83

PRIVATE CONTRACT
 SHEET 1 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS 3
 GRADING PLAN FOR:
CULVERT REPLACEMENT
 T1849, 231733-231734
 OTAY MESA, CA
 CALIFORNIA COORDINATE METER
 APPROVED BY: _____ ENGINEER OF R.O.S. _____
 R.C.E. _____
 GRADING PERMIT NO. _____



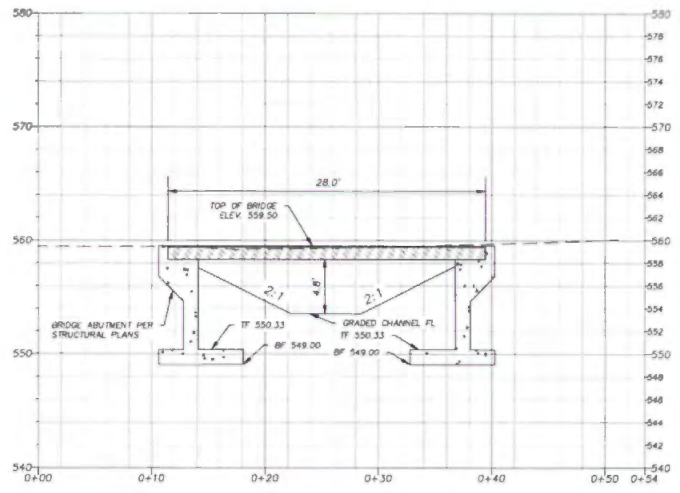
CP 1
580.17

HORIZONTAL CONTROL				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
300	1794732.71	6349892.31	559.50	END BRIDGE
301	1794722.10	6349897.92	559.50	END BRIDGE
302	1794708.99	6349873.18	559.50	END BRIDGE
303	1794719.81	6349867.36	559.50	END BRIDGE
304	1794750.71	6349877.80	551.00	MATCH EXIST CHANNEL
305	1794749.28	6349860.62	551.00	MATCH EXIST CHANNEL
306	1794694.87	6349899.16	556.02	MATCH EXIST CHANNEL
307	1794692.31	6349895.44	556.03	MATCH EXIST CHANNEL

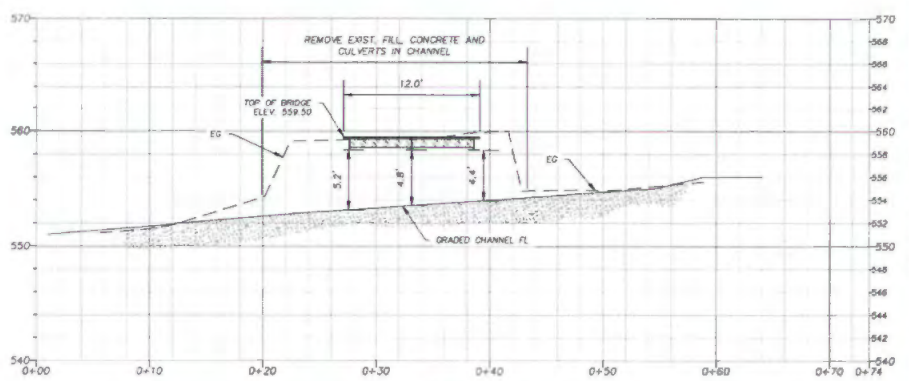


APN 646-040-20-00

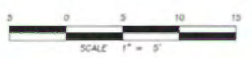
CP 2
559.75



SECTION A-A
SCALE - HORIZ. 1" = 5'
VERT. 1" = 5'



SECTION B-B
SCALE - HORIZ. 1" = 5'
VERT. 1" = 5'



OWNER'S / PERMITTEE'S

NAME: SAN DIEGO GAS & ELECTRIC
 ADDRESS: 8333 CENTURY PARK CT
 SAN DIEGO, CA 92123

TELEPHONE NO. (858) 694-1201

SHORT LEGAL DESCRIPTION: LOT 2, SECTION 24
 T18S, R11W
 PER R.O.S. 09721

A.P.N. NO. 646-040-20-00
 SITE ADDRESS: LATITUDE 32.588637, LONGITUDE -116.837581

PLAN
SCALE 1" = 5'

DIGALERT
 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

RECORD PLAN

BY: JOHN A. HAYES DATE: _____
 R.C.E. 38003
 EXPIRES 5/30/2020

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS SHOWN IN SECTION C703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE OWNER OF PROJECT DRAWS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

DATE: _____
 RCE NO. _____ EXPIRES: _____

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW:

APPROVED BY: _____ DATE: _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

PERMITS

REZONE PERMIT NO. _____
 SPECIAL USE PERMIT NO. _____
 TENTATIVE MAP NO. _____

BENCH MARK

DESCRIPTION: 1/2" DISK IN WELL MONUMENT STAMPED "VERTICAL CONTROL MARK"
 LOCATION: 10 FEET NORTHWEST CORNER OF WATER AIR VAC. RECORD FROM GULLA VISTA SURVEY CONTROL NETWORK, POINT "6022"
 ELEVATION: 873.128 FT. DATUM: NAD83

PRIVATE CONTRACT

SHEET 2 OF 2

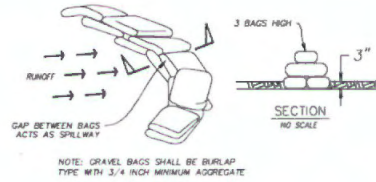
COUNTY OF SAN DIEGO
 DEPARTMENT OF PUBLIC WORKS

DRAWING PLAN FOR:
CULVERT REPLACEMENT
 T1846, 230733-231734
 CITY OF MESA, CA

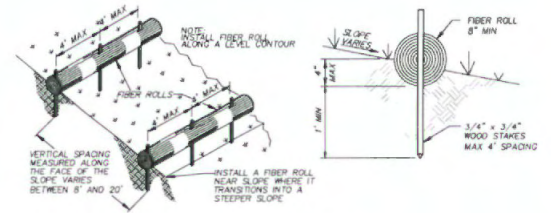
CALIFORNIA COORDINATE INDEX

APPROVED: _____ ENGINEER OF WORK: _____
 DIRECTOR OF PUBLIC WORKS: _____ R.C.E.

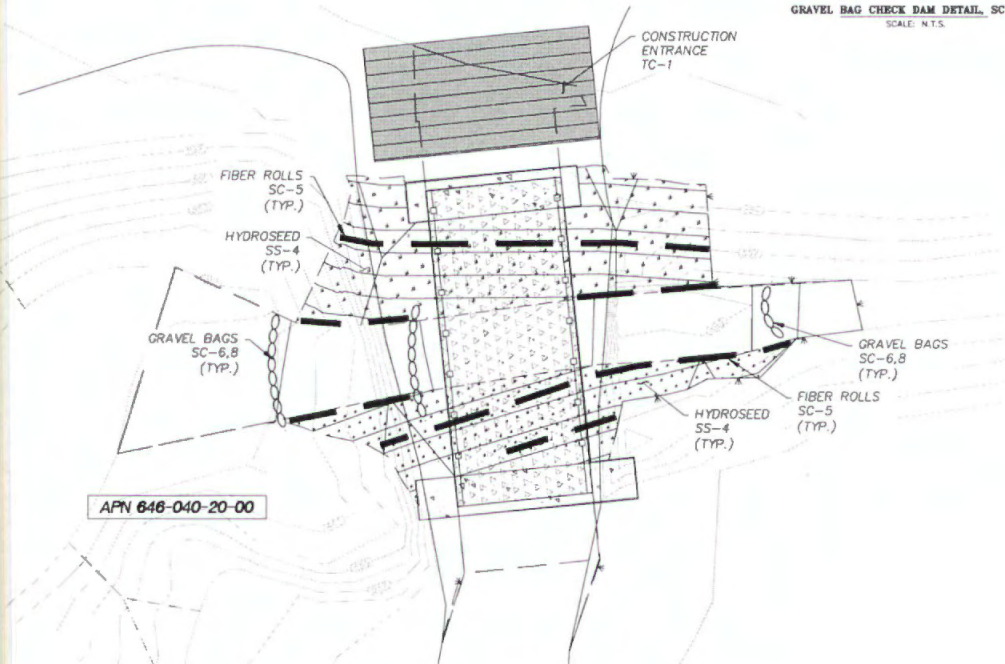
DRAWING PERMIT NO. _____



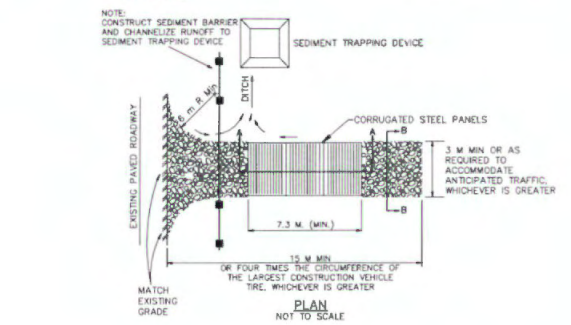
GRAVEL BAG CHECK DAM DETAIL, SC-6, 6
SCALE: N.T.S.



FIBER ROLLS DETAIL, SS-4
SCALE: N.T.S.



PLAN
SCALE: 1" = 5'



CONSTRUCTION ENTRANCE DETAIL, TC-1
SCALE: N.T.S.



NOTE

- CONTRACTOR TO DESIGNATE LOCATIONS FOR:
- MATERIAL DELIVERY & STORAGE WAI-1
 - SPILL PREVENTION AND CONTROL WAI-4
 - WASTE MANAGEMENT WAI-B
 - SOLID WASTE MANAGEMENT WAI-S
 - HAZARDOUS WASTE MANAGEMENT WAI-8

OWNER'S / PERMITTEE'S

NAME: SAN DIEGO GAS & ELECTRIC

ADDRESS: 8335 CENTURY PARK CT
SAN DIEGO, CA 92123

TELEPHONE NO: (858) 654-1202

SHORT LEGAL DESCRIPTION: LOT 2, SECTION 24
T18S R1W

PER R.O.S. 09721

A.P.N. NO: 646-040-20-00

SITE ADDRESS: LATITUDE 32.568837, LONGITUDE -116.937581



RECORD PLAN

BY: JOHN A. HAYES DATE: _____

R.C.E. 28803

EXPIRES: 6/30/2020

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS LIMITED TO REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

BY: _____ DATE: _____

R.C.E. NO: _____ EXPIRES: _____

DEPT. OF PLANNING AND LAND USE

APPROVED FOR COMPLIANCE WITH THE ENVIRONMENTAL REVIEW:

APPROVED BY: _____ DATE: _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION:	APPROVED BY:	DATE:



PERMITS

REZONE PERMIT NO. _____

SPECIAL USE PERMIT NO. _____

TENTATIVE MAP NO. _____

BENCH MARK

DESCRIPTION: 1/2" DISK IN WELL MONUMENT STAMPED "VERTICAL CONTROL MARK"

LOCATION: 10 FEET NORTHEASTERLY OF WATER AIR VAC. RECORD FROM CHULA VISTA SURVEY CONTROL NETWORK.

POINT: 44922

ELEVATION: 673.129 FT DATUM: NAVD83

PRIVATE CONTRACT

SHEET 3 OF 3 SHEETS

COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

GRADING PLAN FOR: CULVERT REPLACEMENT

TL649, 231733-231734 OTAY MESA, CA

CALIFORNIA COORDINATE INDEX

APPROVED BY: _____ ENGINEER OF WORK R.C.E.

DIRECTOR OF PUBLIC WORKS

GRADING PERMIT NO. _____