

San Diego Regional Water Quality Control Board

July 7, 2016

Certified Mail – Return Receipt Requested

Article Number: 7011 0470 0002 8961 9900

Mr. Kipp Hefner
City of Encinitas Public Works
505 South Vulcan Avenue
Encinitas, CA 92024

In reply/refer to:
R9-2015-0128:817249:amonji

Subject: Clean Water Act Section 401 Water Quality Certification No. R9-2015-0128 for the Coast Highway Sewer Pump Station and Force Main Improvements Project

Mr. Hefner:

Enclosed find Clean Water Act Section 401 Water Quality Certification No. R9-2015-0128 (Certification) issued by the California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) in response to the application submitted by City of Encinitas for the Coast Highway Sewer Pump Station and Force Main Improvements Project (Project). A description of the Project and Project location can be found in the Certification and site maps which are included as attachments to the Certification.

The City of Encinitas (City) is enrolled under State Water Resources Control Board Order No. 2003-017-DWQ as a condition of the Certification and is required to implement and comply with all terms and conditions of the Certification in order to ensure that water quality standards are met for the protection of wetlands and other aquatic resources. Failure to comply with this Certification may subject the City to enforcement actions by the San Diego Water Board including administrative enforcement orders requiring the City to cease and desist from violations or to clean up waste and abate existing or threatened conditions of pollution or nuisance; administrative civil liability in amounts of up to \$10,000 per day per violation; referral to the State Attorney General for injunctive relief; and, referral to the District Attorney for criminal prosecution.

Please 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 the San Diego Water Board, 2375 Northside Drive, San Diego, CA 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

HENRY ABARBANEL, PH.D., CHAIR | DAVID GIBSON, EXECUTIVE OFFICER

2375 Northside Drive, Suite 100, San Diego, California 92108-2700 | www.waterboards.ca.gov/sandiego

City of Encinitas
Coast Highway 101 Sewer Pump Station
and Force Main Improvements
R9-2015-0128

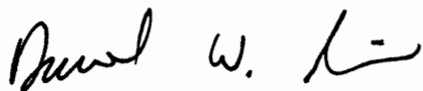
- 2 -

July 7, 2016

identification numbers in the header or subject line: Certification No. R9-2015-0128:817249:
amonji.

For questions or comments regarding the Certification, please contact Alan Monji by telephone
at (619) 521-3968 or by email at Alan.Monji@waterboards.ca.gov.

Respectfully,



DAVID W. GIBSON
Executive Officer

Enclosure:

Clean Water Act Section 401 Water Quality Certification No. R9-2015-0128 for the Coast
Highway Sewer Pump Station and Force Main Improvements Project

DWG:jgs:db:eb:atm

cc:

Ms. Tricia Wotipka Priest
Dudek
twotipka@dudek.com

Mr. Kevin Hupf
California Department of Fish and Wildlife
Kevin.Hupf@wildlife.ca.gov

Mr. Robert Smith
U.S. Army Corps of Engineers
Robert.R.Smith@usace.army.mil

U.S. EPA, OWOW, Region 9
R9-WTR8-Mailbox@epa.gov

State Water Resources Control Board, Division of Water Quality
401 Water Quality Certification and Wetlands Unit
Stateboard401@waterboards.ca.gov

Mr. Eric Becker
San Diego Water Board
Eric.Becker@waterboards.ca.gov

City of Encinitas
Coast Highway 101 Sewer Pump Station
and Force Main Improvements
R9-2015-0128

July 7, 2016

Mr. David Barker
San Diego Water Board
David.Barker@waterboards.ca.gov

Tech Staff Information	
Certification No.	R9-2015-0128
Party ID	552109
Reg. Meas. ID	402394
Place ID	817249
Person ID	552108
WDID	9000002880

**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: Coast Highway Sewer Pump Station and
Force Main Improvements
Certification Number R9-2015-0128
WDID: 9000002880**

Reg. Meas. ID: 402394
Place ID: 817249
Party ID: 552109
Person ID: 552108

**APPLICANT: City of Encinitas
505 South Vulcan Avenue
Encinitas, CA 92024**

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

An application dated August 10, 2015 was submitted by the City of Encinitas (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 Coast Highway Sewer Pump Station and Force Main Improvements Project (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on November 15, 2016. 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 has also applied for a Clean Water Act section 404 permit from the United States Army Corps of Engineers for the Project (USACE File No. SPL-2015-00553-RRS).

The Project is located within the City of Encinitas, San Diego County, California at Coast Highway 101 and Dublin Drive. The Project center reading is located at 33.015232 and -117.284096. The Applicant has paid all required application fees for this Certification in the amount of \$200.00. On an annual basis, the Applicant shall also pay all active discharge fees and post discharge monitoring fees, as appropriate¹. On June 1, 2016, the San Diego Water

¹ The Applicant must pay an annual active discharge fee each fiscal year or portion of a fiscal year during which discharges occur until the San Diego Water Board or the State Water Resources Control Board (State Water Board) issues a Notice of Completion of Discharges Letter to the Applicant. The Applicant must also pay an annual post-discharge monitoring fee each fiscal year or portion of a fiscal year commencing with the first fiscal year following the fiscal year in which the San Diego Water Board or the State Water Board issued a Notice of Completion
(footnote continued on next page)

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 Project is the installation of two new force main pipes in a single casing using horizontal direction drilling methods from the Coast Highway Sewer Pump Station (CPS) east under San Elijo Lagoon to Dublin Drive where they will discharge to the existing eight inch gravity sewer through the existing manhole in the alley between San Elijo Avenue and Newport Avenue.

Originally built in 1974 and rehabilitated in 1982, the CPS is old and the Applicant believes there is risk of failure at any time. The CPS pumps wastewater through a single 1,150-foot-long, four inch diameter ductile iron force main that is mostly underground except for the section under the Coast Highway 101 Bridge at the San Elijo Lagoon outlet. This section is vulnerable to corrosion and vandalism where accidental sewer discharge to San Elijo Lagoon and the ocean shoreline is a possibility and could be significant. This exposed pipe is subject to corrosion and was rehabilitated (as mentioned above) in 1982. Replacement of the existing underground pipeline in the existing alignment would directly impact sensitive biological habitat associated with the lagoon. The Applicant considered alternative alignments for the Project and found the proposed Project is the only alternative without any permanent impacts to San Elijo Lagoon.

The new force main is designed to avoid crossing the Coast Highway 101 Bridge over San Elijo Lagoon where the existing force main is located. The new force main will be installed beneath San Elijo Lagoon for a distance of 135 linear feet at a depth ranging from 20 to 25 feet under the existing ground profile. The force mains will be 12 to 20 feet below the future channel bottom when accounting for future maintenance dredging of San Elijo Lagoon.

The Project application includes a description of the design objective, operation, and degree of treatment expected to be attained from equipment, facilities, or activities (including construction and post-construction BMPs) to minimize or prevent the discharge of waste to water of the United States and/or State. The Project incorporates various design features set forth below to avoid or reduce the potential for sewage wastewater releases from the relocated force mains to waters of the United States and/or State:

1. Upgrade of the existing pump station controls and monitoring equipment to new state-of-the-art computerized controls that will automatically monitor the pumps and force main flow and pressure. This monitoring will transmit to the Operator's, San Elijo Joint Powers Authority (SEJPA), Supervisory Control and Data Acquisition (SCADA) system. Alarm capabilities will be included by SEJPA to automatically notify operator staff of abnormal conditions with 24 hour per day and seven day per week monitoring, reporting, and response.

(footnote continued from previous page)

of Discharges Letter to the Applicant, but continued water quality monitoring or compensatory mitigation monitoring is required. The Applicant must pay the annual post-discharge monitoring fee each fiscal year until the San Diego Water Board or the State Water Board issues a Notice of Project Complete Letter to the Applicant. Additional information regarding fees can be found electronically at the following location: http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/dredgefillcalculator.xlsx

2. The design flowrate of the pump discharge is 125 gallons per minute (gpm) with an operating pressure of 33 pounds per square inch (psi). This capacity exceeds influent flow and was selected to maintain adequate cleaning velocity in the force main.
3. Duty and Standby four inch diameter force mains will be provided, such that only one is used at a time. This allows for cleaning of the force mains, if needed, without interruption of service.
4. SCADA will report electronic pressure data logging for review of any trend of increasing or decreasing pressure over time. The Operators will respond appropriately and will have the flexibility of the redundant force main allowing pressure testing, cleaning, or as appropriate address any integrity concerns.
5. Each of the two force mains will be constructed of High Density Polyethylene (HDPE) pipe with heat fused joints making these force mains one continuous pipe without gaskets or joints to minimize the potential for leaks.
6. Both force mains will be installed from the Cardiff State Beach cul-de-sac to Dublin Drive inside of a separate and additional 12-inch inside diameter HDPE 160 psi pressure-rated heat-fused jointless pipe. This secondary containment will additionally protect the undercrossing of the Coast Highway, the Lagoon outlet, and San Elijo Avenue.
7. The HDPE pipe and casing is not subject to internal or external corrosion and thereby significantly increasing reliability compared to the old metallic force main hanging under the Coast Highway Bridge.

Compliance with the Certification conditions will help ensure that construction and post-construction discharges from the Project will not cause on-site or off-site downstream erosion, damage to downstream properties, or otherwise damage stream habitats in violation of water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan).

The horizontal directional drilling will be under San Elijo lagoon. The Project, as proposed, will not have temporary or permanent impacts to the Pacific Ocean shoreline and lagoon waters of the United States and/or State. 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.

Additional Project details are provided in Attachments 1 through 4 of this Certification.

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Attachments:

- 1. Definitions**
- 2. Project Location Maps**
- 3. Project Site Plans**
- 4. CEQA Mitigation Monitoring and Reporting Program**

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. R9-2015-0128 (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/go_wdr401regulated_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 Pacific Ocean shoreline and San Elijo Lagoon;
 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. **Sanitary Sewer Systems.** The Applicant must comply with *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*, Water Quality Order No. 2006-0003-DWQ and *Amending Monitoring and Reporting Program for Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*, Order No. WQ 2013-0058-

EXEC. Any volume of waste discharged from the relocated force mains to waters of the United States and/or State due to overflow, spill, release, or diversion of untreated or partially treated wastewater is prohibited.

- N. **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 Pacific Ocean shoreline and San Elijo Lagoon. 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 VII.A of this Certification. Associated Project activities may not resume without approval from the San Diego Water Board.
- Q. **Groundwater Dewatering.** If groundwater dewatering is required for the Project, the Applicant shall enroll in and comply with the requirements of San Diego Water Board Order No. R9-2015-0013, NPDES No. CAG919003, *General Waste Discharge Requirements For Groundwater Extraction Discharges to Surface Waters within the San Diego Region* or its successor permit.
- R. **Contingency Plan.** **Prior to the start of construction**, the Applicant will provide a copy of a Drilling Fluid Release Monitoring and Contingency Plan to the San Diego Water Board.

- S. **Material Safety Data Sheets.** Prior to the start of construction, the Applicant will provide a copy of a Material Safety Data Sheets (MSDSs) for the drilling fluids proposed to be used for this Project to the San Diego Water Board.

IV. POST-CONSTRUCTION BEST MANAGEMENT PRACTICES

- A. **Post-Construction Discharges.** The Applicant shall not allow post-construction discharges from the Project site to cause or contribute to on-site or off-site erosion or damage to properties or stream habitats.

V. 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. The Applicant has designed the Project so there are no temporary or permanent impacts to waters of the United States and/or State. The existing force main pipe is being relocated to run underneath San Elijo Lagoon.
- B. **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.

VI. 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 VI 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. All impact 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:
1. **Project Status and Compliance Reporting.** The Annual Project Progress Report must include the following Project status and compliance information:
 - a. The names, qualifications, and affiliations of the persons contributing to the report;
 - b. 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;
 - c. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion; and
 - d. 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.
- 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";
 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/401c/401PhotoDocRB9V713.pdf. In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced; and
- 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. R9-2015-0128:817249: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. R9-2015-0128:817249:amonji.
- 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."

VII. 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. 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.

- C. **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.
- D. **Anticipated Noncompliance.** The Applicant shall give advance notice to the San Diego Water Board of any planned changes in the Project which may result in noncompliance with Certification conditions or requirements.
- E. **Commencement of Construction Notification.** The Applicant must notify the San Diego Water Board in writing at least **5 days** prior to the start of initial Project construction ground disturbance.
- 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.**

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.

VIII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The City of Encinitas 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 Determination dated September 16, 2015 for the Final Mitigated Negative Declaration (FMND) titled *Coast Highway 101 Sewer Pump Station and Forcemain* (State Clearing House Number 2015051003). The Lead Agency has determined the Project will not have a significant effect on the environment and mitigation measures were made a condition of the Project.
- B. The San Diego Water Board is a Responsible Agency under CEQA (Public Resources Code section 21069; CEQA Guidelines section 15381). The San Diego Water Board has considered the Lead Agency's MND and finds that the Project as proposed will not have a significant effect on resources within the San Diego Water Board's purview.
- C. The Lead Agency has adopted a mitigation monitoring and reporting program pursuant to Public Resources Code section 21081.6 and CEQA Guidelines section 15097 to ensure that mitigation measures and revisions to the Project identified in the FMND are implemented. The Mitigation Monitoring and Reporting Program (MMRP) is included and incorporated by reference in Attachment 4 to this Certification. The Applicant shall implement the Lead Agency's MMRP described in the FMND, as it pertains to resources within the San Diego Water Board's purview. The San Diego Water Board has imposed additional MMRP requirements as specified in sections V and VI of this Certification.
- D. As a Responsible Agency under CEQA, the San Diego Water Board will file a Notice of Determination in accordance with CEQA Guidelines section 15096 subdivision (i).

IX. SAN DIEGO WATER BOARD CONTACT PERSON

Alan Monji, Environmental Scientist
Telephone: 619-521-3968
Email: Alan.Monji@waterboards.ca.gov

X. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Coast Highway Sewer Pump Station and Force Main Improvements** (Certification No. R9-2015-0128) 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. R9-2015-0128 issued on July 7, 2016.



DAVID W. GIBSON
Executive Officer
San Diego Water Board

7 July 2016
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.

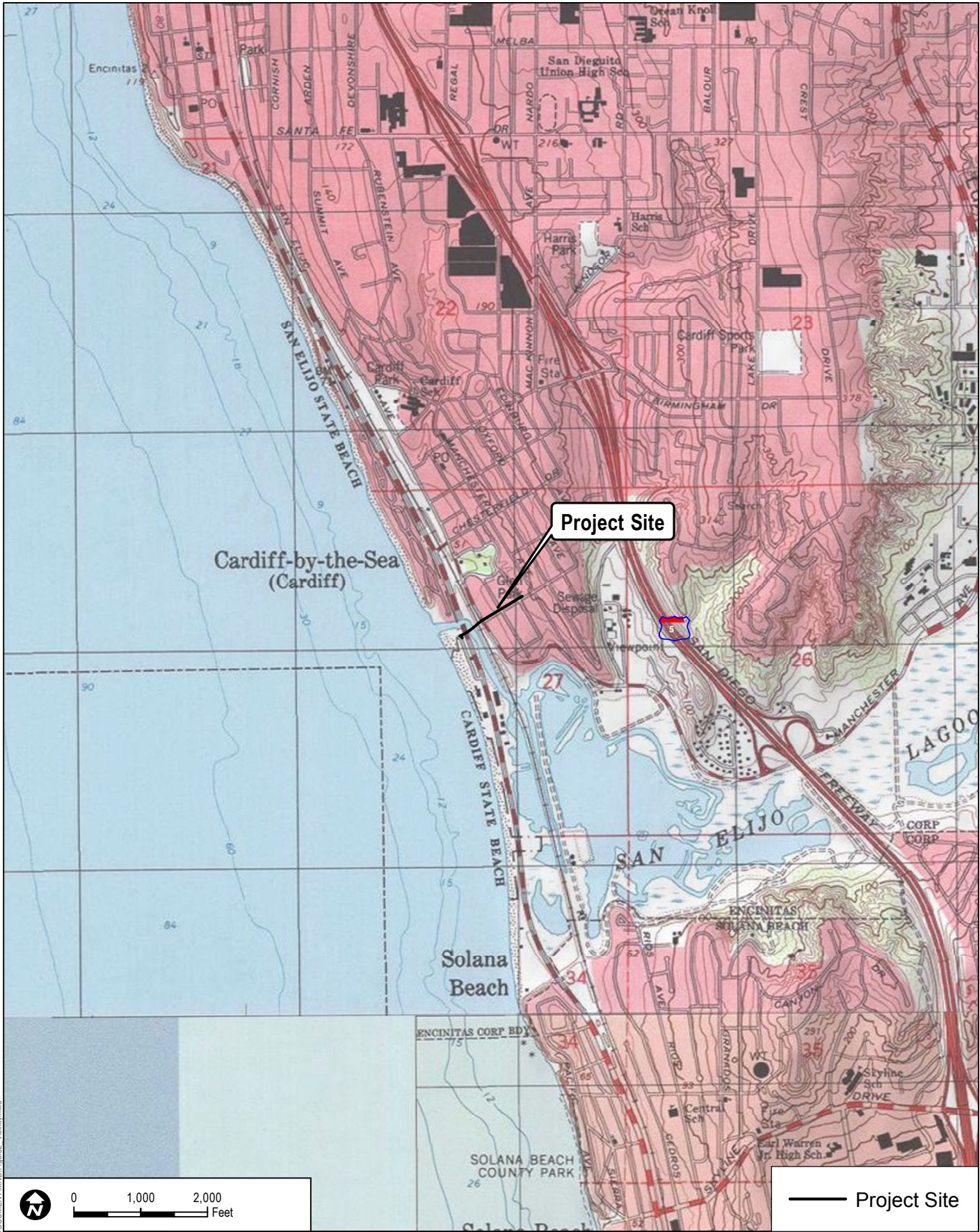
Water quality objectives and other appropriate requirements of state law – means the water quality objectives and beneficial uses as specified in the appropriate water quality control plan(s); the applicable provisions of sections 301, 302, 303, 306, and 307 of the Clean Water Act; and any other appropriate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

ATTACHMENT 2

LOCATION MAPS AND FIGURES

1. Dudek, Site Vicinity Map, Figure 2



— Project Site

DUDEK

SOURCE: USGS 7.5-Minute Series - Encinitas and Del Mar Quadrangles.

FIGURE 2
Vicinity Map

8360

Coast Highway 101 Sewer Pump Station and Forcemain

Z:\Projects\8360\1\MAPDOC\DOCUMENT\MND\Figure2_Vicinity.mxd

ATTACHMENT 3

PROJECT FIGURES

1. Dudek, Project Site, Figure 3
2. Dudek, Existing and Proposed Force Main Routes, Figure 4
3. Dudek, Proposed Force Main Elevations, Figure 5
4. Dudek, Biological Resources Map, Figure 6
5. Dudek, Plans for the Construction of Coast Highway 101 Sewer/Pump Station Rehabilitation, City of Encinitas, Sheets 1-13



Path: Z:\Projects\836001\MAPDOC\DOCUMENT\MND\Figure3_Project Site.mxd

DUDEK

SOURCE: Bing Maps 2014

8360

Coast Highway 101 Sewer Pump Station and Forcemain

FIGURE 3
Project Site



Path: Z:\Projects\836001\MA-PDOC\DOCUMENT\MIND\Figure4_ExistingandProposedForcemain.mxd

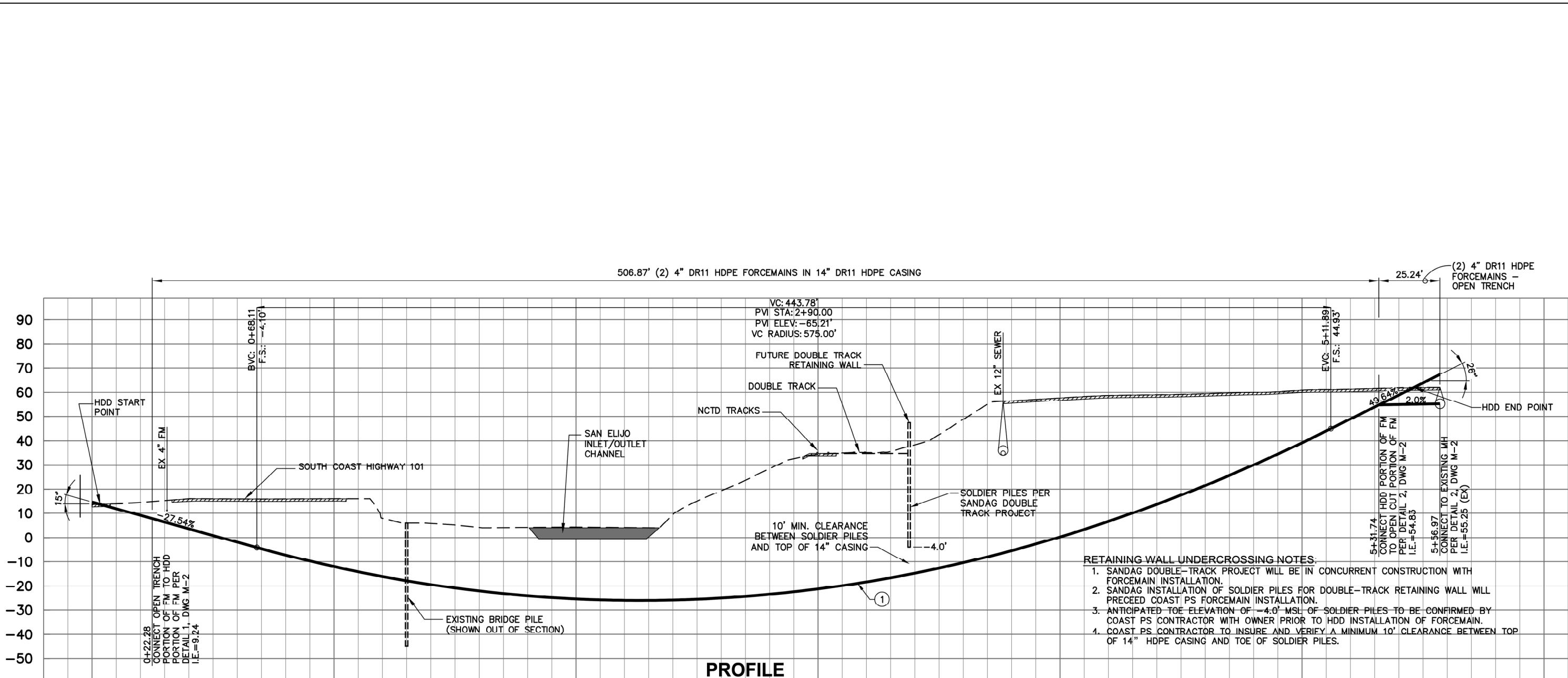
DUDEK

SOURCE: Bing Maps 2014

8360

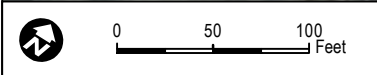
Coast Highway 101 Sewer Pump Station and Forcemain

FIGURE 4
Existing and Proposed Forcemain Routes





	Project Alignment 100-Foot Buffer
	Bypass Above Ground Forcemain
	Coast Pump Station
	Bypass Pumps
	Drilling Portal
	Drill Rig Staging
	Staging Area
	Turn Around Area
New Forcemain Route	
	HDD
	Open Trench
Vegetation Communities	
	BCH, Beach
	dCSS, disturbed Diegan coastal sage scrub-Baccharis dominate
	dMSS, disturbed Maritime succulent scrub
	OW, Open Water
	URB, Urban



DUDEK

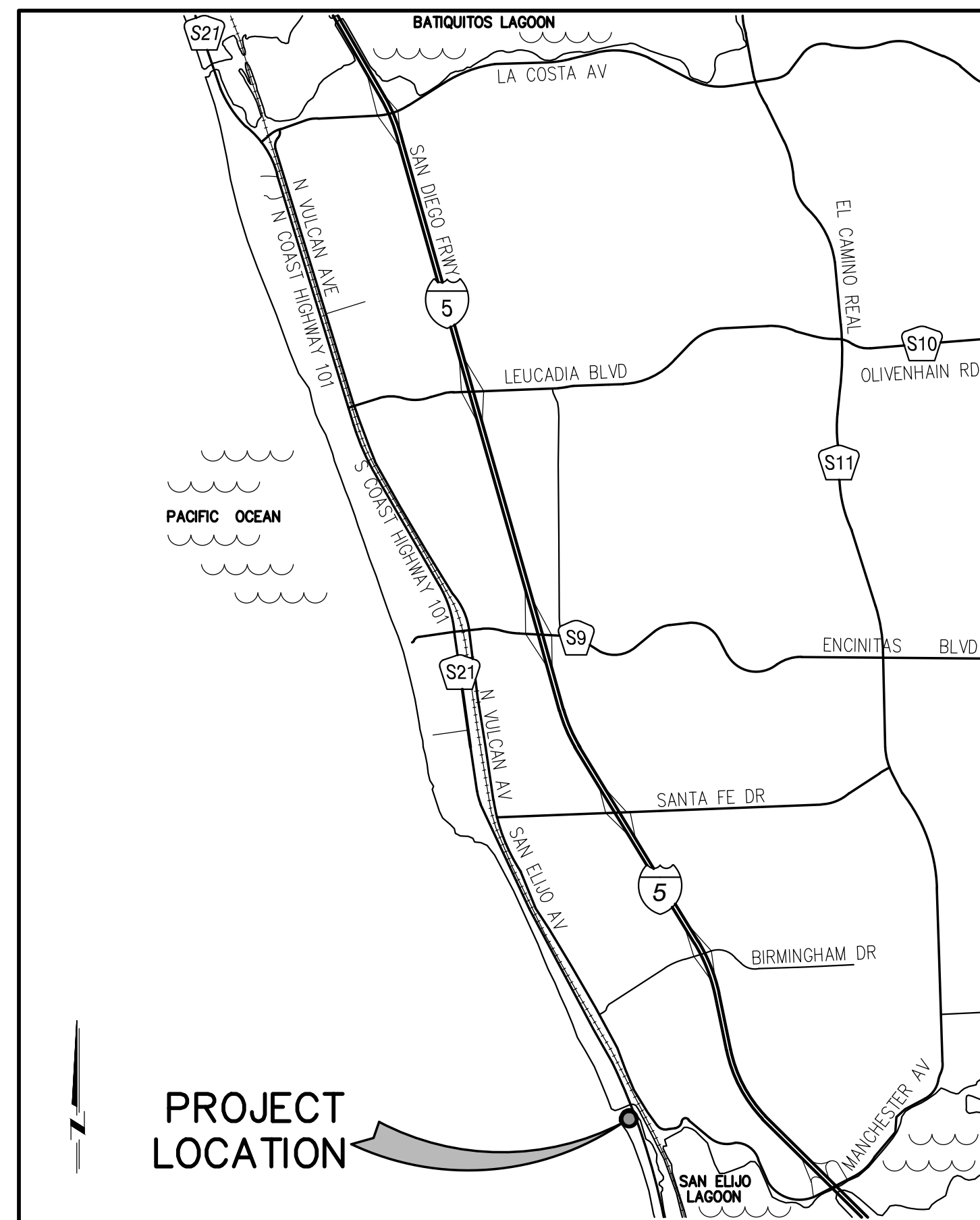
SOURCE: Bing Maps 2014

8360

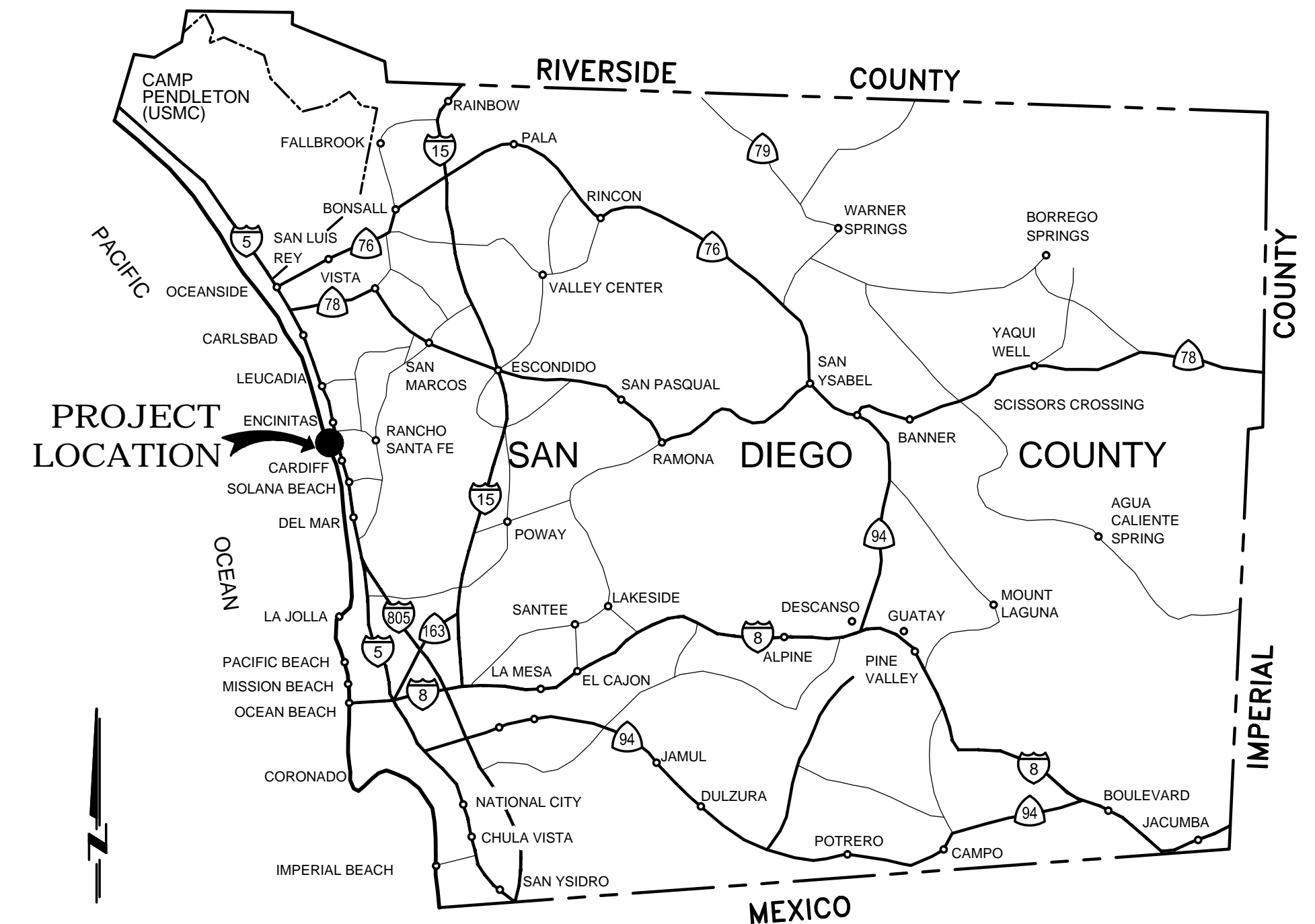
Coast Highway 101 Sewer Pump Station and Forcemain

FIGURE 6
Biological Resources Map

PLANS FOR THE CONSTRUCTION OF COAST HIGHWAY 101 SEWER / PUMP STATION REHABILITATION CITY OF ENCINITAS FINAL REVIEW SET - JULY 2015



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

DRAWING INDEX

SHT NO.	DWG NO.	SHEET TITLE
GENERAL		
1	G-1	TITLE SHEET, VICINITY MAP, LOCATION MAP AND DRAWING INDEX
2	G-2	ABBREVIATIONS AND SYMBOLS
3	G-3	SPECIAL CONDITION NOTES - 1
4	G-4	SPECIAL CONDITION NOTES - 2
5	G-5	SPECIAL CONDITION NOTES - 3
6	G-6	SPECIAL CONDITION NOTES - 4 / SYSTEM AND PUMP CURVES
7	G-5	ACCESS, STAGING AND SITE PLAN
DEMOLITION		
8	D-1	DEMOLITION - EXISTING PUMP STATION PLAN
9	D-2	DEMOLITION - EXISTING PUMP STATION SECTIONS
10	D-3	DEMOLITION - EXISTING SEWER FORCEMAIN
CIVIL		
11	C-1	SITE PLAN
12	C-2	FORCEMAIN PLAN AND PROFILE
13	C-3	PIPE-SIDE STAGING AREA
MECHANICAL		
14	M-1	REHABILITATION OF EXISTING PUMP STATION
15	M-2	DETAILS - 1
16	M-3	DETAILS - 2
ELECTRICAL		
17	E-1	STANDARD ELECTRICAL SYMBOLS AND ABBREVIATIONS
18	E-2	ELECTRICAL AREA PLAN
19	E-3	SINGLE LINE DIAGRAM
20	E-4	MCC ELEVATIONS
21	E-5	RTU LAYOUT
22	E-6	PCP LAYOUT
23	E-7	RTU WIRING DIAGRAM
24	E-8	TYPICAL PCP WIRING DIAGRAM
25	E-9	SCHEDULES
26	E-10	DETAILS

BASIS OF COORDINATES:
THE BASIS OF COORDINATES FOR THIS DRAWING IS THE CITY OF ENCINITAS CONTROL POINT 'ENC-1042' (FD 2.5" SD. CO. ENGINEERS DISC STAMPED 'OC 136, 1968'), AS SHOWN ON RECORD OF SURVEY NO. 18416 (CCS83, ZONE 6, 1991.35 EPOCH, U.S. SURVEY FEET).
N. 1,951,126.311
E. 6,245,651.712

BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS DRAWING IS THE GRID BEARING BETWEEN CITY OF ENCINITAS CONTROL POINTS 'ENC-1042' AND 'ENC-1043', AS SHOWN ON RECORD OF SURVEY NO. 18416.
I.E. NORTH 13°51'06" WEST

BASIS OF ELEVATIONS:
THE BASIS OF ELEVATIONS FOR THIS DRAWING IS THE CITY OF ENCINITAS CONTROL POINT 'ENC-1042' (FD 2.5" SD. CO. ENGINEERS DISC STAMPED 'OC 136, 1968'), AS SHOWN ON RECORD OF SURVEY NO. 18416.
ELEV. = 16.938 (NAVD88)
NOTE: BASIS OF SANDAG DOUBLE TRACK PROJECT NAVD29, SEE NCTD NOTES ON G-4



**Know what's below.
Call 811 before you dig.**

TWO
WORKING DAYS
BEFORE YOU
DIG

Underground Service Alert
of Southern California



CITY OF ENCINITAS		SAN ELIJO JOINT POWERS AUTHORITY	
REVIEWED BY:	DATE:	REVIEWED: MIKE THORNTON	DATE:
		GENERAL MANAGER	

100% DESIGN REVIEW
NOT FOR CONSTRUCTION

SIGNATURE: _____ DATE: _____
COMPANY: DUDEK
ADDRESS: 605 THIRD ST. ENCINITAS, CA 92024
PHONE NUMBER: 760-942-5147
RCE EXPIRES: 3/31/2016

CC14B - CS664

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.	
					ENC-1042 ELEV 16.938' (NAVD88) RECORD OF SURVEY 18416	HORIZONTAL: AS SHOWN		STEPHEN L. DEERING	EDWARD DEANE	GLENN PRUIM	RECOMMENDED RCE NO. 48971	APPROVED RCE NO. 51274	COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664 TITLE SHEET, VICINITY MAP, LOCATION MAP AND DRAWING INDEX	G-1 SHEET 1 OF 26

ABBREVIATIONS

ABAND	ABANDONED
BC	BEGIN CURVE
BOT	BOTTOM
BVC	BEGIN VERTICAL CURVE
CCC	CALIFORNIA COASTAL COMMISSION
CL, c	CENTERLINE
CLMC	CEMENT LINED AND MORTAR COATED
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CW	CLEANING WATER
DI(P)	DUCTILE IRON (PIPING)
DIA	DIAMETER
DR	DIMENSION RATIO
DTL	DETAIL
DWG	DRAWING
EC	END CURVE
ELEV, EL	ELEVATION
EVC	END VERTICAL CURVE
EX	EXISTING
FIP	FEMALE PIPE THREAD
FH	FIRE HYDRANT
FLG	FLANGED
FM	FORCEMAIN
FRP	FIBER-REINFORCED PLASTIC
GR	GRADE
HDD	HORIZONTAL DIRECTIONAL DRILLING
HDPE	HIGH DENSITY POLYETHYLENE
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
ID	INNER DIAMETER
I.E.	INVERT ELEVATION
LWL	LOW WATER LEVEL
MIN	MINIMUM
MIP	MALE PIPE THREAD
MH	MANHOLE
NCTD	NORTH COUNTY TRANSIT DISTRICT
OD	OUTER DIAMETER
PE	PLAIN END
PS	PUMP STATION
PSI	POUNDS PER SQUARE INCH
PVI	POINT OF VERTICAL INTERSECTION
QUALS	QUALIFICATIONS
ROE	RIGHT OF ENTRY
ROW	RIGHT OF WAY
SELC	SAN ELIJO LAGOON CONSERVANCY
SCH	SCHEDULE
SSD	SATURATED SURFACE DRY
SST	STAINLESS STEEL
STA	STATION
TEMP	TEMPORARY
TYP	TYPICAL
VC	VERTICAL CURVE

ABBREVIATIONS UTILITIES

E	ELECTRICAL
FO	FIBER OPTIC
G	GAS
OE	OVERHEAD ELECTRICAL
S	SEWER
W	WATER

REFERENCED RECORD DRAWINGS

PROJECT	ENGINEER	YEAR
COAST HIGHWAY 101 FORCE MAIN	ATKINS	2011
COAST BLVD. PUMP STATION PUMP REPLACEMENT	HIRSCH & COMPANY	1981
PLANS FOR THE CONSTRUCTION OF A SANITARY SEWER SYSTEM	ENGINEERING SCIENCE	1974

CIVIL LEGEND

	PROPERTY LINE
	EXISTING CONTOURS
	EXISTING SPOT ELEVATION
	EXISTING FENCE
	EXISTING TREES/SHRUB
	POWER POLE
	SIGN
	MH
	FIRE HYDRANT
	VALVE
	POWER POLE/GUY WIRE
	SURVEY CONTROL POINT

PIPING SYMBOLS

	EXISTING PIPE
	NEW PIPE (ABOVE GROUND)
	NEW PIPE (BELOW GROUND)
	EXISTING PIPE TO BE REMOVED OR ABANDONED (AS NOTED)
	FLANGED JOINT
	MECHANICAL JOINT
	GROOVED END JOINT (VICTAULIC COUPLING)
	WELDED JOINT
	FLEXIBLE SLEEVE TYPE MECHANICAL COUPLING

VALVE SYMBOLS

VALVES SHOWN WITH FLANGED JOINTS

	PLUG VALVE
	BALL VALVE
	CHECK VALVE (ARROW INDICATES FLOW DIRECTION)
	BALL CHECK VALVE
	GATE VALVE
	BUTTERFLY VALVE
	MOTOR OPERATED VALVE (BUTTERFLY VALVE SHOWN)

FITTING SYMBOLS

FITTINGS SHOWN WITH FLANGED JOINTS

	90° ELBOW
	90° ELBOW DOWN
	45° ELBOW
	45° ELBOW DOWN
	TEE
	TEE UP
	TEE DOWN
	CROSS
	LATERAL WYE
	LATERAL WYE DOWN
	LATERAL WYE UP
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

PIPE AND EQUIPMENT DESIGNATION

EQUIPMENT CALL OUT

EQUIPMENT NUMBER, SEE SCHEDULE ON DRAWING M-1
EQUIPMENT TYPE ABBREVIATION, AS SHOWN HEREON
PLANT NUMBERING
SEE PLANT NUMBERING SCHEDULE ON G-X

PIPING CALL OUT

PIPE ID, SEE PIPE MATERIAL SCHEDULE IN SPECIFICATIONS.
PIPING SERVICE ABBREVIATION, AS SHOWN HEREON
NOMINAL PIPE SIZE
(F) PREFIX DENOTES FUTURE

CHANGE IN PIPING MATERIAL

CROSS REFERENCING SYSTEM

- A SECTION CUT ON A DRAWING IS IDENTIFIED AS FOLLOWS:

DIRECTION OF VIEW

SECTION LETTER

DRAWING WHERE SECTION IS DETAILED
- THE SECTION IS IDENTIFIED AS FOLLOWS:

SECTION LETTER

DRAWING ON WHICH SECTION WAS CUT
- DETAILS ARE CROSS REFERENCED IN A SIMILAR MANNER TO THAT OF SECTIONS EXCEPT DETAILS ARE ASSIGNED NUMBERS RATHER THAN LETTERS.

DETAIL NUMBER

INDICATES THAT DETAIL OR SECTION IS SHOWN ON SAME SHEET AS CALLED OUT
- A SECTION CUT WITHIN A DETAIL AND INCLUDED IN THE SAME DETAIL IS IDENTIFIED AS FOLLOWS:

SECTION LETTER
- A PHOTO IS IDENTIFIED AS FOLLOWS:

PHOTO NUMBER

DRAWING WHERE PHOTO IS SHOWN

	DUDEK Dudek & Associates, Inc. 605 Third Street Encinitas, CA 92024 760.942.5147 Fax 760.632.0164	CITY OF ENCINITAS	SAN ELIJO JOINT POWERS AUTHORITY	100% DESIGN REVIEW NOT FOR CONSTRUCTION	
	REVIEWED BY: _____	DATE: _____	REVIEWED: MIKE THORNTON GENERAL MANAGER	DATE: _____	
DESIGNED BY: SD	DRAWN BY: GD/NH	CHECKED BY: IF	APPROVALS		
PLANS PREPARED UNDER SUPERVISION OF			RECOMMENDED	APPROVED	
DATE: _____			BY: EDWARD DEANE RCE NO. 48971	BY: GLENN PRUIM RCE NO. 51274	
STEPHEN L. DEERING	R.C.E. NO. 26514	EXP. 3/31/16	DATE: _____	DATE: _____	
REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK
					ENC-1042 ELEV 16.938' (NAVD88) RECORD OF SURVEY 18416
					FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"
					HORIZONTAL: AS SHOWN
					VERTICAL: NONE
					SPECIAL DISTRICT
					SCALE
					DESIGNED BY
					DRAWN BY
					CHECKED BY
					APPROVALS
					CITY OF ENCINITAS ENGINEERING DEPARTMENT
					COAST HWY 101 SEWER / PUMP STATION REHABILITATION
					PROJECT NO. CC14B - CS664
					ABBREVIATIONS AND SYMBOLS
					DRAWING NO.
					G-2
					SHEET 2 OF 26

36x24 P.: 101:Engineering\Encinitas\8360 Coast Hwy 101 PSM\06:Design Data (Notes, Calculations, Research)\CAD\DWG\8360 SH02 G-2 7/13/2015 10:51 AM

PROJECT OWNERSHIP AND JURISDICTIONS

- CITY OF ENCINITAS IS THE PROJECT OWNER AND CONTRACTING AGENCY. STREET ROW OF SAN ELIJO AVE, DUBLIN DRIVE, SOUTH COAST HIGHWAY 101, AND ADJACENT STREET AND HIGHWAY ROW IS GOVERNED BY THE CITY OF ENCINITAS. STORM WATER POLLUTION PREVENTION SHALL BE MONITORED AND ENFORCED AND INSPECTED BY THE CITY OF ENCINITAS.
- SEJPA IS RESPONSIBLE FOR MAINTENANCE OF THE COAST HIGHWAY 101 SEWER PUMP STATION (COAST PS) AND WILL REQUIRE UN-INTERRUPTED ACCESS TO THE SITE FOR MAINTENANCE AND OPERATION DURING CONSTRUCTION. ALL SEWER, FORCEMAIN, AND SEWER PUMP STATION SHUTDOWNS SHALL BE REQUESTED OF, AND COMPLETED PER THE REQUIREMENTS OF, SEJPA. SEVEN CALENDAR DAYS MINIMUM REQUEST NOTICE TO SEJPA IS REQUIRED PRIOR TO SHUT DOWNS. SHUT DOWNS SHALL NOT BE ALLOWED ON FRIDAYS.
- THE WORK ACROSS THE RIGHT-OF-WAY OF NORTH COUNTY TRANSIT DISTRICT (NCTD) IS GOVERNED BY A LICENSE AGREEMENT BETWEEN THE CITY OF ENCINITAS AND NCTD. NCTD IN CONJUNCTION WITH THE SAN DIEGO ASSOCIATION OF GOVERNMENTS (SANDAG) LOCAL WILL HAVE A CONCURRENT DOUBLE TRACK PROJECT IN CONSTRUCTION WITHIN THE NCTD ROW DURING THE WORK OF THE COAST PS. THE CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF THE NCTD LICENSE AGREEMENT, NCTD GENERAL NOTES IN THIS SET OF PLANS, AND ALL OTHER RELATED SPECIFIED REQUIREMENTS.
- CONTRACTOR SHALL COMPLY WITH ALL RESOURCE AGENCY PERMIT REQUIREMENTS SPECIFIED AND INCLUDED IN THE CONTRACT DOCUMENTS INCLUDING:
 - CITY OF ENCINITAS, ENCROACHMENT PERMIT
 - CALIFORNIA COASTAL COMMISSION, COASTAL DEVELOPMENT PERMIT
 - SAN ELIJO LAGOON CONSERVANCY
 - US ARMY CORPS OF ENGINEERS
 - CALIFORNIA STATE PARKS
 - CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
 - US FISH AND WILDLIFE
 - REGIONAL WATER QUALITY CONTROL BOARD
 - OTHER

GEOTECHNICAL INVESTIGATION

THE SOIL REPORT TITLED "GEOTECHNICAL INVESTIGATION PROPOSED SEWER PUMP STATION IMPROVEMENTS, COAST HIGHWAY 101 SEWER PUMP STATION AND FORCE MAIN" PREPARED BY NINYO & MOORE, DATED <INSERT DATE> SHALL BE CONSIDERED AS A PART OF THESE CONTRACT DOCUMENTS. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN SAID REPORT.

CONTRACTORS RESPONSIBILITIES

- THE CONTRACTOR SHALL ENFORCE ALL SAFETY MEASURES. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES AS APPROVED BY THE CITY ENGINEER. INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONUMENTATION AND/OR ANY BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION SET BY A STATE OF CALIFORNIA LICENSED LAND SURVEYOR OR A CALIFORNIA REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER. AS REQUIRED BY THE LAND SURVEYORS ACT.
- THE LOCATION OF EXISTING BUILDINGS SHOWN ON THESE PLANS ARE APPROXIMATE.
- THE CONTRACTOR IS RESPONSIBLE TO POT HOLE AND LOCATE ALL EXISTING SUBSURFACE UTILITIES. PRIOR TO THE START OF DEMOLITION OR CONSTRUCTION. ANY EXISTING UTILITIES THAT REQUIRE REMOVAL OR RELOCATION SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY AGENCY PRIOR TO THE BEGINNING OF CONSTRUCTION. IF DURING POT HOLE THE CONTRACTOR DISCOVERS A POTENTIAL CONFLICT BETWEEN PROPOSED UTILITIES AND EXISTING UTILITIES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY. THE CONTRACTOR SHALL ALLOW AMPLE TIME FOR REVISIONS TO BE MADE TO THE PLANS TO AVOID CONFLICTS PRIOR TO THE START OF UTILITY INSTALLATION.

CONTRACTORS RESPONSIBILITIES (CONT)

- THE CONTRACTOR SHALL REQUEST MARKOUT OF EXISTING UNDERGROUND UTILITIES BY CALLING THE LISTED REGIONAL NOTIFICATION CENTER (811) FOR AN INQUIRY IDENTIFICATION NUMBER. AT LEAST (3) DAYS PRIOR TO THE START OF ANY CONSTRUCTION. CONTRACTOR TO NOTIFY NCTD PER THE REQUIREMENTS DESCRIBED ON G-4.
- CONTRACTOR TO PROVIDE PROJECT IDENTIFICATION SIGN ADJACENT TO PUMP STATION SITE. SIGN SHALL HAVE THE FOLLOWING INFORMATION:
 PROTECTING WATER QUALITY AND THE ENVIRONMENT
 ENCINITAS PROJECT #CC14B
 COAST HIGHWAY 101 SEWER PUMP STATION REHABILITATION & FORCE MAIN REPLACEMENT PROJECT
 PROJECT MANAGEMENT
 CITY OF ENCINITAS ENGINEERING SERVICES DEPARTMENT
 FUNDED BY:
 <CITY TO INSERT>
 CONTRACTOR:
 <CONTRACTOR TO INSERT>
 CONSTRUCTION COST
 <CITY TO INSERT>
 ENCINITAS CITY COUNCIL
 MAYOR: <CITY TO INSERT> DEPUTY MAYOR: <CITY TO INSERT>
 COUNCIL MEMBERS: <CITY TO INSERT>

- CONTRACTOR TO SUPPLY CITY WITH DIMENSIONAL SAMPLE OF PROJECT IDENTIFICATION SIGN FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL VIDEO SURVEY (CCTV) ALL EXISTING UTILITIES ALONG THE PROPOSED HDD ALIGNMENT BOTH PRIOR TO AND FOLLOWING HDD OPERATIONS. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING ALL DAMAGED UTILITIES TO THE SATISFACTION OF THE CITY.

WORK TO BE DONE AND SEQUENCE

PROJECT INCLUDES ALL LABOR, MATERIALS, SERVICES, AND EQUIPMENT AS SHOWN, SPECIFIED, AND NECESSARY TO INSTALL AND CONNECT PARALLEL REDUNDANT 4-IN FORCEMAINS WITH HORIZONTAL DIRECTIONAL DRILLING (HDD) CONSTRUCTION METHODS AND OPEN TRENCH CONNECTIONS; TO PROVIDE A TEMPORARY PUMPED BYPASS THROUGH THE OLD FORCEMAIN; REMOVE AND PROPERLY DISPOSE OF EXISTING FACILITIES BEING REPLACED; TO REHABILITATE THE EXISTING PUMP STATION MANHOLE, INSTALL NEW PUMPS AND APPURTENANT EQUIPMENT, INSTALL NEW DISCHARGE PIPING, INSTALL ALL NEW ELECTRICAL AND INSTRUMENTATION EQUIPMENT; TO START-UP AND DEMONSTRATE PROPER OPERATION OF THE REHABILITATED PUMP STATION DISCHARGING THROUGH THE NEW FORCEMAINS; REMOVAL OF EXISTING EXPOSED FORCEMAIN FROM THE COAST HIGHWAY 101 BRIDGE AND ABUTMENTS, AND SLURRY FILLING OF THE REMAINING 4-INCH DIAMETER EXISTING FORCEMAIN FROM THE EXISTING DISCHARGE ON SAN ELIJO AVENUE TO THE COAST HIGHWAY BRIDGE ABUTMENT; PROVIDE COMPLIANCE WITH ALL PERMITS, LICENSE AGREEMENTS, EASEMENT REQUIREMENTS; PROVIDE STORM WATER POLLUTION PREVENTION COMPLIANCE; PROVIDE TRAFFIC CONTROL, SITE CONTROL, AND SECURITY; COMPLETE ALL EXCAVATION BACKFILL, PAVEMENT RESURFACING, AND SITE RESTORATION TO RETURN DISTURBED AREAS AND SURFACE IMPROVEMENTS BACK TO ORIGINAL CONDITIONS. PHASING SHALL BE ESTABLISHED TO MAINTAIN CONTINUOUS FIRE DEPARTMENT ACCESS.

THE SEQUENCE OF WORK SHALL BE AS FOLLOWS, UNLESS OTHERWISE APPROVED:

PRE-FIELD WORK AND CONCURRENT WITH PHASE 1 AND 2:

- COMPLETE SUBMITTAL, REVIEW, AND APPROVAL OF ALL MATERIALS FOR THE FORCEMAIN AND PUMP STATION. ORDER MATERIALS FOR COORDINATED DELIVERY ALLOWING MINIMUM FIELD STAGING & CONSTRUCTION PERIOD FOR THE FORCEMAIN INSTALLATION IN PHASE 1 AND THE PUMP STATION STRUCTURAL, MECHANICAL, AND ELECTRICAL UPGRADE IN PHASE 2.

PHASE 1

- CONSTRUCT TWO NEW PARALLEL 4-IN HDPE FORCEMAINS WITHIN 14-IN HDPE CASING USING HDD CONSTRUCTION METHODS
- CONNECT THE NEW FORCEMAIN DISCHARGE TO THE EXISTING SEWER ON DUBLIN DRIVE
- CONSTRUCT THE NEW DISCHARGE PIPING VALVE VAULT, AS SHOWN AND REQUIRED
- CONNECT THE NEW VALVE VAULT TO NEW FORCE MAINS
- RESTORE ALL EXISTING IMPROVEMENTS, PAVEMENT, AND FEATURES TO ORIGINAL CONDITION.

WORK TO BE DONE AND SEQUENCE (CONT)

PHASE 2

- MAINTAIN SEWER SERVICE WITH BYPASS OF EXISTING SEWER FLOWS PUMPED THROUGH THE EXISTING BYPASS CONNECTION AND EXISTING VALVE VAULT
- REHABILITATE THE EXISTING WET WELL INCLUDING DEMOLITION OF THE EXISTING PUMPS, DEMOLITION OF THE UPPER PRECAST SECTIONS OF THE EXISTING WET WELL, REPAIR OF THE WET WELL CONCRETE, REPLACEMENT OF THE UPPER SECTIONS OF THE PRECAST WET WELL, APPLICATION OF CONCRETE COATING, AND INSTALLATION OF THE NEW PUMPS AND ANCILLARY FACILITIES
- INSTALL ALL NEW ELECTRICAL AND SCADA EQUIPMENT CONCURRENTLY WITH WET WELL REHABILITATION
- CONNECT NEW ELECTRICAL AND CONTROL EQUIPMENT TO NEW PUMPS
- CONNECT NEW PUMP DISCHARGE PIPING TO NEW VALVE VAULT
- START-UP AND TEST THE NEW PUMPING SYSTEM TO OBTAIN FIELD APPROVAL TO PROCEED
- REINSTATE SEWER FLOW TO WET WELL & COMMENCE PUMPING THROUGH NEW PUMPS AND NEW FORCEMAIN.
- RESTORE ALL IMPROVEMENTS, PAVEMENT, AND FEATURES TO ORIGINAL CONDITION.

PHASE 3

- DEMOLISH THE EXISTING VALVE VAULT, FILL WITH SAND OR SLURRY AND ABANDON THE EXISTING BELOW GROUND SECTIONS OF FORCEMAIN, REMOVE THE ABOVE GROUND AIR & VACUUM VALVE ASSEMBLY, AND REMOVE SECTIONS OF FORCEMAIN HUNG UNDER THE COAST HIGHWAY 101 BRIDGE.
- RESTORE ALL IMPROVEMENTS, PAVEMENT, AND FEATURES TO ORIGINAL CONDITION.

GENERAL CITY OF ENCINITAS NOTES

- ALL WORK, UNLESS OTHERWISE SPECIFIED, SHALL BE DONE IN ACCORDANCE WITH THESE PLANS, THE ACCOMPANYING PROJECT DOCUMENTS AND TECHNICAL SPECIFICATIONS, AND THE LATEST EDITION AND SUPPLEMENTS OF THE "STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION", SAN DIEGO REGIONAL STANDARD DRAWINGS, CALTRANS STANDARD SPECIFICATIONS, AND CITY OF ENCINITAS ENGINEERING CONSTRUCTION STANDARDS IN THIS ORDER OF PRECEDENCE.
- ALL CITY CODES, REGULATIONS, AND POLICIES IN EFFECT AT THE TIME OF BUILDING/GRADING PERMIT ISSUANCE SHALL APPLY.
- CONTRACTOR TO CONTACT THE ENCINITAS FIRE DEPARTMENT A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- PRIOR TO THE START OF ANY WORK, THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE CITY AND GET APPROVAL OF THOSE TRAFFIC PLANS FROM THE CITY.
- TRAFFIC CONTROL PLANS SHALL SHOW ALL PHASING OF WORK.
- TRAFFIC CONTROL PLANS SHALL BE PREPARED BY A LICENSED CIVIL ENGINEER OR TRAFFIC ENGINEER IN THE STATE OF CALIFORNIA.
- ALL TRAFFIC CONTROL SHALL CONFORM TO BOTH THE CALIFORNIA MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONE (2010 EDITION) AND THE CURRENT EDITION OF THE CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- A NO-FEE CITY OF ENCINITAS ENCROACHMENT PERMIT SHALL BE OBTAINED FROM THE CITY OF ENCINITAS ENGINEERING DEPARTMENT FOR ANY WORK WITHIN THE ENCINITAS PUBLIC RIGHT-OF-WAY.
- LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES WITHIN AND ADJACENT TO PROJECT AREA SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- WORK ZONE TRAFFIC CONTROLS THROUGHOUT CONSTRUCTION SHALL CONFORM TO THE CITY OF ENCINITAS ENCROACHMENT PERMIT.
- PARKING RESTRICTIONS, AS APPROVED BY CITY ENGINEER, SHALL REQUIRE A MINIMUM OF 48 HOURS NOTICE, EXCLUDING HOLIDAYS AND WEEKENDS.
- ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON ALL MAJOR AND SECONDARY HIGHWAYS.
- A MINIMUM 4-FT WIDE PEDESTRIAN WALKWAY, CLEAR OF ANY OBSTRUCTION SHALL BE MAINTAINED WHEREVER SIDEWALKS EXIST AND MUST BE MAINTAINED WITH SAFETY FENCING OR BARRIER SEPARATION FROM ADJACENT EXCAVATION WHEN LEFT UNMANNED.

GENERAL CITY OF ENCINITAS NOTES (CONT)

- ANY DAMAGE TO TRAFFIC CONTROL EQUIPMENT, TRAFFIC STRIPING OR RAISED PAVEMENT MARKERS SHALL BE THE PERMITTEE'S RESPONSIBILITY AND SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE INSPECTOR. THE REPLACEMENT OF DAMAGED TRAFFIC EQUIPMENT, STRIPING OR RAISED PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE AND BE DONE AS SOON AS PRACTICAL AFTER COMPLETION OF WORK AT NO ADDITIONAL COST TO THE CITY.
- A.C. PAVEMENT SHALL BE SAWCUT TO ONE FOOT BEYOND THE EDGE OF THE TRENCH. CONCRETE SECTIONS TO BE REPLACED SCORELINE TO SCORELINE.
- PERMANENT PAVEMENT REPAIRS SHALL BE MADE WITHIN 10 DAYS AFTER EXCAVATION WORK IS COMPLETED. INSPECTOR'S APPROVAL IS REQUIRED BEFORE PERMANENT REPAIRS ARE MADE.
- PIPE BEDDING AND BACKFILL: GRAVEL SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SUBSECTION 306-1.2.1 AND BE PLACED IN ACCORDANCE WITH SAN DIEGO REGIONAL STANDARD DRAWING S-4, TYPE B. THE UPPER ZONE BACKFILL UNDER PAVEMENT SHALL BE COMPACTED TO NINETY FIVE PERCENT (95%) MINIMUM RELATIVE COMPACTION.
- WHEN COMPACTION TESTS ARE REQUIRED, ALL COSTS ARE TO BE BORNE BY THE CONTRACTOR.
- A TWO-SACK CEMENT AND SLURRY MIXTURE MAY BE REQUIRED FOR COMPACTION WHERE EXCAVATION INTERFERES WITH TRAFFIC FLOW OR WHERE WORK IS WITHIN THE ROADWAY PORTION OF AN INTERSECTION.
- APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
- THE CONTRACTOR SHALL NOTIFY DIG ALERT AT 1-800-227-2600 A MINIMUM OF TWO WORKING DAYS PRIOR DIGGING AND TO START OF WORK AND SHALL COORDINATE HIS WORK WITH UTILITY REPRESENTATIVES.
- THE EXISTENCE AND LOCATION OF EXISTING AND PROPOSED UNDERGROUND FACILITIES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF THE ENGINEER'S KNOWLEDGE. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN HEREON AND ANY OTHER WHICH IS NOT ON RECORD OR NOT SHOWN ON THESE PLANS.
 - SAN DIEGO GAS & ELECTRIC COMPANY
 - AT&T
 - COX COMMUNICATIONS
 - MCI
 - SAN DIEGUITO WATER DISTRICT
 - ENCINITAS PUBLIC WORKS/ENGINEERING DEPARTMENT
 - TIME WARNER CABLE
 - NEXT G NETWORKS
 - NORTH COUNTY TRANSIT DISTRICT
 - SAN DIEGO AREA GOVERNMENTS (SANDAG) - DOUBLE TRACK PROJECT
- THE CONTRACTOR SHALL NOTIFY THE SAN DIEGO GAS & ELECTRIC COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE HIS WORK WITH COMPANY REPRESENTATIVES.
 NOTICE:
 ALL ELECTRICAL AND GAS SERVICES WITHIN THIS PROJECT ARE "UNDERGROUND INSTALLATIONS". FOR LOCATION OF ELECTRICAL CABLES AND GAS PIPING AND APPURTENANCES CONTACT THE SAN DIEGO GAS & ELECTRIC COMPANY. TELEPHONE: (858) 636-5716
- THE CONTRACTOR SHALL NOTIFY THE AT&T COMMUNICATIONS COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE WITH COMPANY REPRESENTATIVES. ALL TELEPHONE SERVICES WITHIN THIS PROJECT BOUNDARY ARE "UNDERGROUND INSTALLATIONS."
 NOTICE:
 FOR LOCATION OF CABLES AND APPURTENANCES CONTACT AT&T COMMUNICATIONS COMPANY. TELEPHONE (510) 645-2929.
- THE CONTRACTOR SHALL NOTIFY COX CABLE TELEVISION COMPANY PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE WITH COMPANY REPRESENTATIVES.
 NOTICE:
 FOR LOCATION OF CABLES AND APPURTENANCES CONTACT COX CABLE TELEVISION COMPANY. TELEPHONE (760) 806-9809 (EXT. 2233)
- THE CONTRACTOR SHALL NOTIFY MCI PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE WITH COMPANY REPRESENTATIVES.
 NOTICE:
 FOR THE LOCATION OF MCI FACILITIES WITHIN THE PROJECT AREA. TELEPHONE: (813) 740-1231
- THE CONTRACTOR SHALL NOTIFY THE SAN DIEGUITO WATER DISTRICT PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE WITH COMPANY REPRESENTATIVES.
 NOTICE:
 FOR THE LOCATION OF WATER DISTRICT FACILITIES WITHIN THE PROJECT AREA TELEPHONE: (760) 633-2709.
- THE CONTRACTOR SHALL NOTIFY THE ENCINITAS PUBLIC WORKS / ENGINEERING DEPARTMENT PRIOR TO ANY WORK WITHIN CITY RIGHT-OF-WAY AND SHALL COORDINATE WITH CITY REPRESENTATIVES.
 NOTICE:
 FOR WORK WITHIN ENCINITAS RIGHT-OF-WAY. TELEPHONE: (760) 633-2775

CC14B - CS664

DUDEK
 Dudek & Associates, Inc.
 605 Third Street Encinitas, CA 92024
 760.942.5147 Fax 760.632.0164

CITY OF ENCINITAS		SAN ELIJO JOINT POWERS AUTHORITY	
REVIEWED BY:	DATE:	REVIEWED: MIKE THORNTON	DATE:
		GENERAL MANAGER	

100% DESIGN REVIEW
NOT FOR CONSTRUCTION

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.
					ENC-1042 ELEV 16.938' (NAV088) RECORD OF SURVEY 18416	HORIZONTAL: AS SHOWN		STEPHEN L. DEERING	EDWARD DEANE	GLENN PRUIM	RECOMMENDED APPROVED	COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664	G-3
					FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"	VERTICAL: NONE			R.C.E. NO. 26514	RCE NO. 48971	BY: DATE: 3/31/16	SPECIAL CONDITION NOTES - 1	SHEET 3 OF 26

GENERAL CITY OF ENCINITAS NOTES (CONT)

- 29. THE CONTRACTOR SHALL NOTIFY TIME WARNER CABLE PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE WITH COMPANY REPRESENTATIVES.
NOTICE:
FOR LOCATION OF CABLES AND APPURTENANCES CONTACT TIME WARNER CABLE. TELEPHONE: (858) 635-8735
- 30. THE CONTRACTOR SHALL NOTIFY NEXT G NETWORKS PRIOR TO STARTING WORK NEAR COMPANY FACILITIES AND SHALL COORDINATE WITH COMPANY REPRESENTATIVES.
NOTICE:
FOR LOCATION OF CABLES AND APPURTENANCES CONTACT NEXT G NETWORKS. TELEPHONE: (626) 320-0996
- 31. THE CONTRACTOR SHALL NOTIFY THE NORTH COUNTY TRANSIT DISTRICT PRIOR TO ANY WORK WITHIN NCTD RIGHT-OF-WAY AND SHALL COMPLY WITH THE NCTD GENERAL NOTES HEREON AND THE REQUIREMENTS OF THE NCTD LICENSE AGREEMENT, A COPY OF WHICH IS INCLUDED WITH THE PROJECT SPECIFICATIONS MANUAL.
NOTICE:
CONTACT NCTD AND COMPLY WITH REQUIREMENTS.
TELEPHONE: (760)966-6556
- 32. THE CONTRACTOR SHALL NOTIFY SANDAG PRIOR TO ANY WORK WITHIN NCTD RIGHT-OF-WAY AND SHALL COMPLY WITH THE NCTD GENERAL NOTES HEREON AND THE REQUIREMENTS OF THE NCTD LICENSE AGREEMENT, A COPY OF WHICH IS INCLUDED WITH THE PROJECT SPECIFICATIONS MANUAL.
NOTICE:
CONTACT SANDAG AND COMPLY WITH REQUIREMENTS
TELEPHONE: _____
- 33. ALL UNDERGROUND UTILITIES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER AND PAVING.
- 34. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE UTILITY AGENCIES AND ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
- 35. POTABLE WATER SHALL BE PROVIDED AND PAID FOR BY THE CONTRACTOR THROUGH USE OF A POTABLE WATER HYDRANT METER FROM SAN DIEGUITO WATER DISTRICT AND USE OF A WATER TRUCK AND ANCILLARY EQUIPMENT, AS NEEDED. A HOSE EXTENDED FROM THE NEAREST HYDRANT IN THE STATE BEACH PARKING AREA TO THE WORK AREA WILL NOT BE ALLOWED.
- 36. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SECURITY AND PROTECTION OF THE PUBLIC 24-HOURS PER DAY FOR THE WORK AND STAGING AREAS.
- 37. AS-BUILTS/RECORD DRAWINGS: CONTRACTOR SHALL HAVE A SET OF UPDATED RED-LINED AS-BUILT DRAWINGS ON THE JOB SITE FOR THE DURATION OF THE CONSTRUCTION. UPON COMPLETION, AND PRIOR TO RELEASING THE SECURITIES, THE CONTRACTOR SHALL "AS-BUILT" A BOND COPY OF THE PLANS IN RED INK. INITIALLY, TWO COPIES OF RED-LINED PLANS SHOWING ALL AS-BUILT INFORMATION, INCLUDING ALL NEW UNDERGROUND FACILITIES (MAIN LINES, SERVICES AND LATERALS), IS TO BE SUBMITTED TO THE ENGINEER. WHEN THE RED LINES ARE APPROVED, THE ENGINEER SHALL MAKE THE CHANGES, SIGN EACH SHEET UNDER "AS-BUILT", AND RETURN ORIGINAL MYLARS TO THE CITY.
- 38. ALL PRIVATE IMPROVEMENTS IN THE PUBLIC RIGHT-OF-WAY DESIGNATED TO BE REMOVED SHALL BE SALVAGED AND RETURNED TO THE PROPERTY OWNER. ALL PRIVATE IMPROVEMENTS OUTSIDE THE PUBLIC RIGHT-OF-WAY DAMAGED BY THE CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED BY THE CONTRACTOR.
- 39. THE CONTRACTOR SHALL PROTECT EXISTING LANDSCAPING AND IMPROVEMENTS TO REMAIN IN PLACE. NO LANDSCAPING OR IMPROVEMENTS SHALL BE DAMAGED OR REMOVED WITHOUT PRIOR APPROVAL OF THE CITY.
- 40. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENT OR BENCHMARK WHICH IS DISTURBED OR DESTROYED SHALL BE RE-ESTABLISHED AND REPLACED BY A REGISTERED CIVIL ENGINEER OR A LICENSED LAND SURVEYOR. A CORNER RECORD, CERTIFICATE OF COMPLIANCE OR RECORD OF SURVEY SHALL BE FILED AS REQUIRED BY THE LAND SURVEYOR'S ACT. THE CONTRACTOR SHALL FURNISH TO THE CITY OF ENCINITAS, PROOF OF RECORDING.
- 41. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION. PROJECT SITE MAINTENANCE SHALL CONFORM TO SECTION 7-8 OF THE STANDARD SPECIFICATIONS.
- 42. THE CONTRACTOR SHALL MAINTAIN A SET OF "AS-BUILT" DRAWINGS ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING UTILITIES, ARE TO BE RECORDED. A COPY OF SAID "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE CITY OF ENCINITAS WHEN REQUESTED.
- 43. MATERIAL OR DEBRIS SHALL NOT BE STORED OR REMAIN IN THE PUBLIC RIGHT-OF-WAY WITHOUT APPROVAL BY THE CITY ENGINEER.

GENERAL CITY OF ENCINITAS NOTES (CONT)

- 44. OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) NOTE: THE CONTRACTOR IS REQUIRED TO OBTAIN A PERMIT FROM OSHA PRIOR TO COMMENCING CONSTRUCTION OF TRENCHES OF EXCAVATIONS WHICH ARE 5 FOOT OR DEEPER AND INTO WHICH A PERSON IS REQUIRED TO DESCEND.
- 45. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTION REQUIRED TO PROTECT ADJACENT PROPERTIES DURING CONSTRUCTION. ANYTHING DAMAGED OR DESTROYED SHALL BE REPLACED OR REPAIRED AT NO COST TO THE CITY AND TO THE SATISFACTION OF THE ENGINEER.
- 46. 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.
- 47. GRADING AND EQUIPMENT OPERATING WITHIN ONE HALF (1/2) MILE OF A STRUCTURE FOR HUMAN OCCUPANCY SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 4:00 PM AND 7:30 AM, NOR ON SATURDAYS, SUNDAYS, AND CITY RECOGNIZED HOLIDAYS.
- 48. EXCEPT WHEN WORK IS BEING DONE ON DRIVEWAYS, THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE DRIVEWAYS AT ALL TIME.
- 49. THE CONTRACTOR SHALL NOTIFY AND OBTAIN APPROVAL OF THE ENGINEER OF WORK PRIOR TO MAKING CHANGES IN THE FIELD.
- 50. NOTES AND DETAILS ON THE PLANS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES IN THE CASE OF CONFLICT.
- 51. PRIOR TO ANY WORK BEING PERFORMED IN THE PUBLIC RIGHT-OF-WAY, A RIGHT-OF-WAY CONSTRUCTION PERMIT SHALL BE OBTAINED FROM THE ENGINEERING SERVICES DIRECTOR AND APPROPRIATE FEES PAID, IN ADDITION TO ANY OTHER PERMITS REQUIRED.
- 52. THE CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ENCINITAS PRIOR TO THE COMMENCEMENT OF ANY CLEARING OR GRADING OF THE SITE. SEPARATE GRADING PLANS SHALL BE SUBMITTED AND APPROVED AND SEPARATE GRADING PERMITS ISSUED FOR BORROW OR DISPOSAL SITES IF LOCATED WITHIN THE CITY LIMITS.
- 53. NO GRADING SHALL OCCUR OUTSIDE OF THE LIMITS OF THE PROJECT UNLESS A LETTER OF PERMISSION IS OBTAINED FROM THE OWNERS OF THE AFFECTED PROPERTIES.
- 54. ALL NEWLY CREATED SLOPES WITHIN THIS PROJECT SHALL BE NO STEEPER THAN 2:1.
- 55. PRIOR TO HAULING DIRT OR CONSTRUCTION MATERIALS TO ANY PROPOSED CONSTRUCTION SITE WITHIN THIS PROJECT THE CONTRACTOR SHALL SUBMIT TO AND RECEIVE APPROVAL FROM THE ENGINEERING SERVICES DIRECTOR FOR THE PROPOSED HAUL ROUTE. THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AND REQUIREMENTS THE ENGINEERING SERVICES DIRECTOR MAY IMPOSE WITH REGARD TO HAULING OPERATION.

SEWER SPILL RESPONSE PLAN

CONTRACTOR SHALL SUBMIT A SEWAGE SPILL RESPONSE PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL. CONTRACTOR CANNOT START ANY WORK UNTIL PLAN IS APPROVED BY THE CITY. CONTRACTOR SHALL PROVIDE ALL MANPOWER AND EQUIPMENT NECESSARY TO COMPLY WITH THE APPROVED SPILL RESPONSE PLAN.

TIDAL LEVELS, GROUNDWATER AND GROUNDWATER DISPOSAL

- 1. SAN ELIJO LAGOON IS TIDAL; THUS, SURFACE AND GROUNDWATER LEVELS VARY WITH THE TIDES. THE RANGE OF HIGH AND LOW TIDES VARIES ON A DAILY BASIS.
- 2. THE INLET AND OUTLET CHANNEL OF SAN ELIJO LAGOON IS IMPACTED BY VARYING AMOUNTS OF BEACH SAND AND LAGOON SEDIMENT CAUSING MORE OR LESS RESTRICTION TO INFLOW AND OUTFLOW OF WATER FROM SAN ELIJO LAGOON. THIS IN TURN AFFECTS WATER LEVELS IN SAN ELIJO LAGOON ITSELF.
- 3. THE SAN ELIJO LAGOON HAS A LARGE UPSTREAM WATERSHED. DURING WET WEATHER, VARYING AMOUNTS OF SURFACE RUNOFF ENTER SAN ELIJO LAGOON. THIS IN TURN AFFECTS WATER LEVELS IN SAN ELIJO LAGOON.
- 4. THE CONTRACTOR SHALL NOT BE COMPENSATED ADDITIONALLY FOR ANY CONSTRUCTION RELATED ACTIVITIES NECESSARY TO COMPENSATE FOR VARYING TIDES OR SURFACE AND GROUNDWATER LEVELS.
- 5. DISPOSAL OF PROJECT WATERS TO SEWERS OR SEWER PUMP STATIONS SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN PERMISSION OF THE CITY AND SEJPA. SHORT-TERM DISCHARGE OF NUISANCE GROUNDWATER TO SEWER NOT EXCEEDING 10 GALLONS PER MINUTE (GPM) WILL BE ALLOWED AT PRE-APPROVED TIME OF DAY AND TIME OF WEEK PERIODS.
- 6. FOR DISCHARGE OF GROUNDWATER TO SEWER, GROUNDWATER DEWATER DISCHARGE SHALL BE ROUTED THROUGH PROPERLY SIZED DESILTING TANKS, AS SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY THE ENGINEER.
- 7. FOR PERIODS OF TIME WHEN SEJPA WILL NOT ALLOW DISCHARGE OF GROUNDWATER TO SEWER, CONTRACTOR MAY AT THEIR OWN COST AND EFFORT ADDITIONALLY ACQUIRE A RWQCB NPDES PERMIT AND COMPLY WITH THOSE PERMIT CONDITIONS FOR DISCHARGE OF GROUNDWATER TO THE SAN ELIJO LAGOON. THERE IS NO ASSURANCE FROM THE OWNER REGARDING ISSUANCE, COST, TIMING, OR REQUIREMENTS OF SUCH A PERMIT.

NCTD GENERAL NOTES

- 1. FOR ALL EMERGENCIES AFFECTING THE TRACK AND TRAIN SAFETY, CALL NORTH COUNTY TRANSIT DISTRICT'S (NCTD) 24 HOUR SECURITY OFFICE AT (760) 966-6700.
- 2. PRIOR TO THE START OF CONSTRUCTION AND AT THE CONTRACTOR'S EXPENSE, ALL PERSONNEL ENTERING THE RAILROAD RIGHT-OF-WAY (ROW), INCLUDING SUBCONTRACTORS AND THIRD PARTIES, SHALL COMPLETE NCTD'S ROADWAY WORKER PROTECTION (RWP) TRAINING COURSE. CONTACT TRANSIT AMERICA SERVICES, INC. (TASI) AT (760) 966-6514 TO ARRANGE FOR TRAINING.
- 3. ALL PERSONS ENTERING THE RAILROAD ROW SHALL HAVE THE RWP STICKER AFFIXED TO THEIR HARD HAT AND RWP BADGE IN THEIR POSSESSION.
- 4. ALL PERSONNEL ENTERING THE RAILROAD ROW SHALL COMPLY WITH NCTD SAFETY REQUIREMENTS. FAILURE TO COMPLY SHALL BE GROUNDS FOR TERMINATION OF WORK AND REVOCATION OF THE RIGHT TO ENTER NCTD'S ROW AND/OR RIGHT-OF-ENTRY (ROE) PERMIT.
- 5. THE CONTRACTOR OR ENTITY BEING ISSUED AUTHORIZATION BY NCTD TO WORK IN THE ROW (CONTRACTOR) SHALL COMPLY WITH ALL APPLICABLE TERMS, CONDITIONS AND REQUIREMENTS OF NCTD'S POLICIES REGARDING NCTD'S ROW AND OTHER NCTD ORDINANCES, RULES AND REGULATIONS. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS OF THE FEDERAL, STATE, COUNTY, LOCAL GOVERNMENTS AND ALL ADMINISTRATIVE AGENCIES WHICH MAY HAVE JURISDICTION OVER THE CONTRACTOR'S WORK OR WORK AREA.
- 6. THE CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH RWP TRAINING, FLAGGING, INSPECTIONS, AND REVIEWS AS REQUIRED IN THE ROE PERMIT AND/OR WORK AUTHORIZATION LETTER.
- 7. NO WORK ABOVE-GROUND OR UNDERGROUND WORK SHALL BE PERFORMED WITHIN THE RAILROAD ROW WITHOUT A RIGHT-OF-ENTRY PERMIT AND/OR WORK AUTHORIZATION LETTER, AS APPLICABLE. THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS SET FORTH BY NCTD, THE ROE PERMIT, THE WORK AUTHORIZATION LETTER, PROJECT PLANS AND SPECIFICATIONS, AND THE JOB SITE RAILROAD FLAGMAN/EMPLOYEE-IN-CHARGE (EIC). FAILURE TO COMPLY MAY RESULT IN WORK STOPPAGE OR REMOVAL FROM NCTD PROPERTY.
- 8. ONLY A NCTD AUTHORIZED RAILROAD FLAGMAN (RAILROAD FLAGMAN) IS PERMITTED TO PERFORM FLAGGING OPERATIONS WITHIN THE RAILROAD ROW. NO PERSONNEL SHALL CROSS ANY TRACK WITHOUT THE APPROVAL FROM THE RAILROAD FLAGMAN. NO MEN OR EQUIPMENT SHALL BE ACTIVELY WORKING, PARKED OR STATIONARY ON NCTD'S ROW WITHOUT PRIOR APPROVAL FROM THE RAILROAD FLAGMAN.
- 9. A RAILROAD FLAGMAN SHALL BE PRESENT DURING ALL CONSTRUCTION RELATED ACTIVITIES. THE RAILROAD FLAGMAN/ EIC HAS SOLE RESPONSIBILITY TO PROTECT THE RAILROAD INFRASTRUCTURE AND OPERATIONS. AT ALL TIMES, THE CONTRACTOR SHALL FOLLOW THE RAILROAD FLAGMAN/EIC'S DIRECTION.
- 10. CONTRACTOR IS RESPONSIBLE TO REQUEST RAILROAD FLAGMAN SERVICES WITH ADEQUATE NOTICE TO MEET CONTRACTOR'S CONSTRUCTION SCHEDULE.
- 11. THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS FOR EACH EQUIPMENT OPERATOR TO HAVE CONSTANT AND DIRECT RADIO CONTACT WITH THEIR FOREMAN. THE FOREMAN WILL IN TURN HAVE CONSTANT AND DIRECT CONTACT WITH THE RAILROAD FLAGMAN/EIC.
- 12. THE CONTRACTOR SHALL HAVE THE PERMITTED STAMPED SET OF PLANS ON-SITE. WORK WILL BE TERMINATED BY NCTD SHOULD NO STAMPED PLANS BE ON-SITE.
- 13. IF APPLICABLE, ALL WORK ON OR ADJACENT TO THE SAN DIEGO TROLLEY SHALL ALSO ADHERE TO METROPOLITAN TRANSIT SYSTEM (MTS) REQUIREMENTS.
- 14. THE MOVEMENT OF TRAINS IS UNPREDICTABLE. TRAINS MAY APPROACH THE JOB SITE IN ANY DIRECTION, AT ANY SPEED, AT ANY TIME, AND MAY STOP AND OCCUPY THE TRACK WITHIN THE CONTRACTOR'S WORK ZONE FOR AN UNDETERMINED PERIOD OF TIME.
- 15. CONTRACTORS MUST CONTACT CALL BEFORE YOU DIG (811) BEFORE ANY EXCAVATION OCCURS WITHIN THE ROW.
- 16. NCTD RAILROAD UTILITIES ARE NOT A PART OF CALL BEFORE YOU DIG. CONTRACTOR MUST REQUEST RAILROAD UTILITIES LOCATED BEFORE ANY EXCAVATIONS CAN OCCUR BY CALLING NCTD AT (760) 967-2883 FOR SIGNALING AND PTC FIBER MARK-OUTS WITHIN THE ROW AT LEAST SEVEN (7) WORKING DAYS BEFORE DIGGING.
- 17. THE CONTRACTOR SHALL CONTACT NCTD AT (760) 967-2883, 72-HOURS IN ADVANCE FOR ANY INSPECTIONS REQUIRED IN THE ROE PERMIT AND/OR WORK AUTHORIZATION LETTER, AS APPLICABLE.
- 18. UPON PROJECT COMPLETION, THE NCTD ROW SHALL BE LEFT IN AS GOOD IF NOT BETTER CONDITION. NCTD PROPERTY SHALL NOT BE USED FOR SPOILS.

NOTE:

THESE PLANS WERE CREATED BASED ON NAVD 88 VERTICAL DATUM. THE PLANS FOR THE SANDAG DOUBLE TRACK PROJECT ARE BASED ON NAVD 29 DATUM. CONTRACTOR IS RESPONSIBLE FOR DISCREPANCIES IN FIELD

DIRECTIONAL DRILLING NOTES

- 1. CONTRACTOR SHALL UTILIZE A DRILL RIG AT THE CARDIFF STATE BEACH PARKING LOT LOCATION INDICATED ON THE PLANS TO ALLOW FOR DRILLING FROM LOWER TO HIGHER ELEVATION.
- 2. CONTRACTOR SHALL NOTIFY ALL POTENTIAL UTILITY OWNERS REQUESTING LOCATION OF ALL UTILITIES WITHIN THE AREAS OF WORK INCLUDING THE ENTIRE PLAN AND PROFILE OF THE EXISTING AND NEW FOREMAINS.
- 3. ANY USE OF EQUIPMENT UNDER SDG&E POWER LINES SHALL MAINTAIN SDG&E MANDATED MINIMUM SAFETY CLEARANCE FROM THE LINES.
- 4. CONTRACTOR SHALL PROVIDE CONTINUOUS VISUAL MONITORING FOR SUBSIDENCE AND HEAVE ALONG THE ENTIRE DRILL PATH DURING PILOT BORE, REAMING, AND PIPE PULL-BACK OPERATIONS.
- 5. CONTRACTOR SHALL AT ALL TIMES DURING THE DRILLING OPERATIONS KNOW ACCURATELY BY DRILLING SURVEY METHODS WHERE THE DRILL HEAD IS LOCATED ALONG THE DRILL PATH.
- 6. CONTRACTOR ACCESS TO THE AREA ABOVE THE DRILL PATH IN THE SAN ELIJO LAGOON SHALL BE LIMITED TO SURVEYING AND ABOVE-GROUND WIRE LINE PLACEMENT AND REMOVAL.
- 7. DRILLING OPERATIONS SHALL BE HALTED AT FIRST EVIDENCE OF DRILLING MUD RETURNS AT LOCATIONS OTHER THAN THE DRILL-SIDE ENTRANCE AND PIPE-SIDE EXIT POINTS (INADVERTENT RETURNS) AND CONTRACTOR SHALL COMPLY WITH SPEC REQUIREMENTS PRIOR TO RESTART OF DRILLING OPERATIONS.
- 8. THE ENGINEER, THE OWNER, NCTD, CALIFORNIA FISH AND WILDLIFE, U.S. FISH AND WILDLIFE SERVICE, AND CALIFORNIA COASTAL COMMISSION (CCC) WILL BE NOTIFIED IMMEDIATELY IF INADVERTENT SPILLS FROM THE HDD OCCUR TO DETERMINE IF INITIATION OF CONSULTATION IS WARRANTED TO ADDRESS SPILL CLEANUP.
- 9. ALL INADVERTENT RETURNS SHALL PROMPTLY BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. VEHICLE ACCESS TO NCTD ROW OR THE LAGOON (TOE OF SLOPE ON EAST AND WEST SIDES OF LAGOON INLET/OUTLET CHANNEL) IS NOT ALLOWED.
- 10. ALL DRILLING FLUIDS SHALL BE CONTAINED WITHIN STAGING AREAS SHOWN ON THE PLANS. NO RUNOFF SHALL BE ALLOWED.
- 11. ALL DRILLING SPOILS INCLUDING INADVERTENT RETURNS SHALL BE DISPOSED OFF-SITE AND OUTSIDE OF THE COASTAL ZONE AT A LOCATION APPROVED BY THE ENGINEER. CONTRACTOR SHALL LOCATE AND SUBMIT EVIDENCE TO THE ENGINEER FOR APPROVAL OF A LEGALLY ACCEPTABLE AND PERMITTED DISPOSAL LOCATION.
- 12. CLASSIFICATION AND SEGREGATION OF SPOILS FROM THE DRILLING MUD AND RECIRCULATION OF DRILLING MUD SHALL BE PROVIDED BY THE CONTRACTOR.
- 13. SPOILS SHALL NOT BE ALLOWED TO ACCUMULATE ON SITE TO THE POINT OF NUISANCE OR INCREASED RISK OF EROSION AND RUNOFF.
- 14. DRILLING SLURRY FLUID PROPERTIES, FLUID VOLUMES, AND RATE OF PILOT BORE, REAM, AND PULLBACK RATES SHALL BE MATCHED BY THE CONTRACTOR TO THE GROUND CONDITIONS SUCH THAT HEAVE, SUBSIDENCE, AND INADVERTENT RETURNS DO NOT OCCUR.
- 15. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COMPLETE THE BORE AND THE WORK TO THE SATISFACTION OF THE OWNER.
- 16. MITIGATION BY THE CONTRACTOR TO OVERCOME COBBLES, BOULDERS, GRAVEL BEDS, LOGS, BEDROCK, OR OTHER OBSTRUCTIONS SHALL BE INCLUDED IN THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- 17. CONTRACTOR SHALL NOT BE COMPENSATED ADDITIONALLY FOR HYDROLOCK CONDITIONS, GROUND WATER INFILTRATION, OR DILUTION OF DRILLING MUD, COLLAPSE OF THE BORE HOLE, OR OTHER POTENTIAL PROBLEMS THAT MAY OCCUR DURING CONSTRUCTION. IN ANY OF THESE SITUATIONS, THE CONTRACTOR SHALL SUSPEND OPERATIONS AND SUBMIT A PROPOSED SOLUTION TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING.
- 18. CONTRACTOR SHALL CONFIRM ADEQUACY OF REQUIRED HDPE PIPE TO RESIST TENSILE STRESS, BUCKLING, AND INTERNAL PRESSURE. ADDITIONAL COMPENSATION SHALL NOT BE PROVIDED TO THE CONTRACTOR FOR FAILURE OF THE DRILL PIPE, HDPE CASING OR HDPE CARRIER PIPES.
- 19. CONTRACTOR SHALL PROVIDE ELECTRICAL SAFETY FOR DRILLING EQUIPMENT AND OPERATORS.
- 20. CONTRACTOR SHALL AVOID USE OF THIN DRILLING FLUIDS AND HIGH DRILLING FLUID VELOCITIES.
- 21. CONFIRM THROUGH MATERIALS MONITORING AND MANAGEMENT, THAT THE BORING ANNULUS IS BEING FILLED AS THE BORE PROGRESSES AT THE RATE EXPECTED.
- 22. ALL DRILLING FLUIDS AND ADDITIVES SHALL BE 'NSF CERTIFIED' TO ASSURE PUBLIC HEALTH PROTECTION.

 **DUDEK**
Dudek & Associates, Inc.
605 Third Street Encinitas, CA 92024
760.942.5147 Fax 760.632.0164

CITY OF ENCINITAS		SAN ELIJO JOINT POWERS AUTHORITY	
REVIEWED BY:	DATE:	REVIEWED: MIKE THORNTON GENERAL MANAGER	DATE:

100% DESIGN REVIEW
NOT FOR CONSTRUCTION

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT	DESIGNED BY SD	DRAWN BY CB/JH	CHECKED BY IF	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.
					ENC-1042 ELEV 16.938" (NAVD88) RECORD OF SURVEY 18416 FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"	HORIZONTAL: AS SHOWN VERTICAL: NONE		PLANS PREPARED UNDER SUPERVISION OF STEPHEN L. DEERING	DATE: R.C.E. NO. 26514 EXP. 3/31/16	RECOMMENDED BY: EDWARD DEANE RCE NO. 48971 DATE:	APPROVED BY: GLENN PRUIM RCE NO. 51274 DATE:	COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664	G-4 SHEET 4 OF 26

CC14B - CS664

SPECIAL CONDITION NOTES - 2

HDPE PIPE

1. ALL HDPE FORCEMAIN AND CASING PIPE SHALL BE IRON PIPE SIZE (IPS) DIMENSION RATIO (DR) 11.
2. ALL HDPE PIPELINE SHALL BE PRE-ASSEMBLED ABOVE GROUND AND SUPPORTED ON ROLLERS PRIOR TO PULL-BACK BY HDD.
3. HDPE PIPE SHALL BE PRESSURE TESTED ABOVE-GROUND PRIOR TO PULL-BACK BY HDD.
4. ANY AND ALL GOUGES IN THE EXTERIOR WALL OF HDPE PIPE GREATER THAN 1/8-INCH DEEP SHALL BE CAUSE FOR REJECTION AND REMOVAL OF THAT SEGMENT OF PIPE.
5. INTERIOR AND EXTERIOR HEAT WELD BEADS SHALL BE REMOVED FROM HDPE PIPE PRIOR TO ABOVE-GROUND TESTING.
6. SITE RESTORATION AND PLANTING
 - a. CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR PRE-EXISTING CONDITION OR AS OTHERWISE REQUIRED ON THE PLANS.
 - b. DISPOSAL OR TEMPORARY PLACEMENT OF EXCESS FILL, BRUSH, OR OTHER DEBRIS IS PROHIBITED IN WATERS OF THE U.S. AND/OR ASSOCIATED BANKS.
 - c. DISTURBANCE OR REMOVAL OF NATIVE PLANT SPECIES IS NOT ALLOWED.
 - d. INADVERTENTLY DISTURBED OR REMOVED NATIVE PLANT SPECIES SHALL BE REPLANTED AND/OR REPLACED TO THE SATISFACTION OF THE OWNER'S BIOLOGIST AT NO ADDITIONAL COST TO OWNER.

STORM WATER POLLUTION CONTROL BEST MANAGEMENT PRACTICE (BMP) NOTES RELATIVE TO CONSTRUCTION ACTIVITY

1. THE CONTRACTOR SHALL DEVELOP A STORM WATER POLLUTION CONTROL PLAN FOLLOWING THE GUIDELINES OF THE CITY OF ENCINITAS' BEST MANAGEMENT PRACTICE MANUAL.
2. CONCRETE WASHOUT
 - a. CONTRACTOR SHALL ESTABLISH AND USE AN ADEQUATELY SIZED CONCRETE WASHOUT
 - b. AREA TO CONTAIN WASHOUT WASHES ON SITE. IT IS ILLEGAL TO WASH CONCRETE, SLURRY, MORTAR, STUCCO, PLASTER AND THE LIKE INTO THE STORM WATER CONVEYANCE SYSTEM OR ANY RECEIVING WATER. CONTRACTOR SHALL POST A SIGN DESIGNATING THE WASHOUT LOCATION
3. CONSTRUCTION SITE ACCESS
 - a. A STABILIZED CONSTRUCTION SITE ACCESS SHALL BE PROVIDED FOR VEHICLES EGRESS AND INGRESS TO PREVENT TRACKING DIRT OFF SITE. THIS SHALL INCLUDE USING MATERIAL SUCH AS GRAVEL AND/OR CORRUGATED STEEL PANELS/PLATES.
 - b. CONSTRUCTION VEHICLES
 - c. A SPECIFIC AREA AWAY FROM GUTTERS AND STORMDRAIN SHALL BE DESIGNATED FOR CONSTRUCTION VEHICLES PARKING, VEHICLE REFUELING, AND ROUTINE EQUIPMENT MAINTENANCE. ALL MAJOR REPAIRS SHALL BE MADE OFF-SITE.
4. EROSION CONTROL
 - a. EROSION CONTROL MUST BE PROVIDED FOR ALL EROSION SURFACES. SLOPED SURFACES ESPECIALLY SHALL BE PROTECTED AGAINST EROSION BY INSTALLING EROSION RESISTANT SURFACES SUCH AS EROSION CONTROL MATS, ADEQUATE GROUND COVER VEGETATION, AND BONDED FIBER MATRIX.
 - b. NO EXCAVATION AND GRADING ACTIVITIES ARE ALLOWED DURING WET WEATHER.
 - c. DIVERSION DIKES SHALL BE CONSTRUCTED TO CHANNEL RUNOFF AROUND THE CONSTRUCTION SITE. CONTRACTOR SHALL PROTECT CHANNELS AGAINST EROSION USING PERMANENT AND TEMPORARY EROSION CONTROL MEASURES.
 - d. REMOVE EXISTING VEGETATION ONLY WHEN ABSOLUTELY NECESSARY. LARGE PROJECTS SHALL BE CONDUCTED IN PHASES TO AVOID UNNECESSARY REMOVAL OF THE NATURAL GROUND COVER DO NOT REMOVE TREES OR SHRUBS UNNECESSARILY; THEY HELP DECREASE EROSION.
 - e. TEMPORARY VEGETATION MUST BE PLANTED ON SLOPES OR WHERE CONSTRUCTION IS NOT IMMEDIATELY PLANNED FOR EROSION CONTROL PURPOSES. EROSION SHALL BE PREVENTED BY PLANTING FAST-GROWING ANNUAL AND PERENNIAL GRASSES TO SHIELD AND BIND THE SOIL.
 - f. PLANT PERMANENT VEGETATION AS SOON AS POSSIBLE. ONCE EXCAVATION AND GRADING ACTIVITIES ARE COMPLETE.
 - g. WATER USAGE FOR DUST CONTROL SHALL BE MINIMIZED.

STORM WATER POLLUTION CONTROL BEST MANAGEMENT PRACTICE (BMP) NOTES RELATIVE TO CONSTRUCTION ACTIVITY (CONT)

5. ON-SITE CONSTRUCTION MATERIAL STORAGE
 - a. STORED MATERIALS SHALL BE CONTAINED IN A SECURE PLACE TO PREVENT SEEPAGE AND SPILLAGE. CONTRACTOR SHALL STORE THESE PRODUCTS WHERE THEY WILL STAY DRY OUT OF THE RAIN. CONTRACTOR SHALL PROVIDE SECONDARY CONTAINMENT FOR ALL FUEL STORED ON-SITE.
 - b. ELIMINATE OR REDUCE POLLUTION OF STORMWATER FROM STOCKPILES KEPT ON-SITE. STOCKPILES MAY INCLUDE SOIL, PAVING MATERIALS, ASPHALT CONCRETE, AGGREGATE BASE, ETC. STOCKPILES SHALL BE LOCATED AWAY FROM CONCENTRATED STORMWATER FLOWS AND STORMDRAIN INLETS. STOCKPILES SHALL BE COVERED OR PROTECTED WITH SOIL STABILIZATION MEASURES AND PROVIDED WITH A TEMPORARY SEDIMENT BARRIER AROUND THE PERIMETER AT ALL TIMES.
6. TRAINING
 - a. CONTRACTORS' EMPLOYEES WHO PERFORM CONSTRUCTION IN THE CITY OF ENCINITAS SHALL BE TRAINED TO BE FAMILIAR WITH THE CITY OF ENCINITAS STORM WATER POLLUTION CONTROL REQUIREMENTS. THESE BMP NOTES SHALL BE AVAILABLE TO EVERYONE WORKING ON SITE. THE PROPERTY OWNER(S) AND THE PRIME CONTRACTOR MUST INFORM SUBCONTRACTORS ABOUT STORM WATER REQUIREMENTS AND THEIR OWN RESPONSIBILITIES.
7. WASTE MANAGEMENT
 - a. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY DISPOSING OF ALL WASTE AND UNUSED CONSTRUCTION MATERIALS. DUMPING OF UNUSED OR WASTE PRODUCTS ON THE GROUND, WHERE WATER CAN CARRY THEM INTO THE CONVEYANCE SYSTEM IS STRICTLY PROHIBITED.
 - b. NO SEEPAGE FROM DUMPSTERS SHALL BE DISCHARGED INTO STORMWATER. BERMS DIKES SHALL BE PLACED AROUND DUMPSTERS TO DIVERT THE NATURAL STORM RUNOFF. DUMPSTERS SHALL BE CHECKED FREQUENTLY FOR LEAKS. DUMPSTER LIDS SHALL REMAIN CLOSED AT ALL TIMES. DUMPSTERS WITHOUT LIDS SHALL BE PLACED WITHIN STRUCTURES WITH IMPERVIOUS ROOFING OR COVERED WITH TARPS IN ORDER TO AVOID RAIN CONTACT WITH ANY TRASH MATERIAL
 - c. MANY CONSTRUCTION MATERIALS, INCLUDING SOLVENTS, WATER BASED PAINTS, VEHICLE FLUIDS, BROKEN ASPHALT AND CONCRETE, WOOD, AND CLEARED VEGETATION CAN BE RECYCLED. NON-RECYCLABLE MATERIALS MUST BE TAKEN TO AN APPROPRIATE LANDFILL OR DISPOSED OF AS HAZARDOUS WASTE. FOR INFORMATION ON DISPOSAL OF HAZARDOUS MATERIAL CALL THE HAZARDOUS WASTE HOTLINE TOLL FREE AT (600) 714-1195. FOR INFORMATION ON LANDFILLS AND TO ORDER DUMPSTERS CALL EDCC AT (858) 713-42031.
 - d. POLLUTANTS SHALL BE KEPT OFF EXPOSED SURFACES. PLACE TRASH CANS AND RECYCLING RECEPTACLES AROUND THE SITE.
 - e. PORTABLE TOILETS MUST BE IN GOOD WORKING ORDER AND CHECKED FREQUENTLY FOR LEAKS. CONTRACTOR SHALL PROVIDE SECONDARY CONTAINMENT AND LOCATE PORTABLE TOILETS AWAY FROM STORMDRAIN INLETS ON PVIOUS SURFACES.
 - f. ALL CONSTRUCTION DEBRIS SHALL BE KEPT AWAY FROM THE STREET, GUTTER, AND STORMDRAIN. CONTRACTOR MUST ROUTINELY CHECK AND CLEAN UP MATERIAL THAT MAY HAVE TRAVELED AWAY FROM CONSTRUCTION SITE STORMWATER POLLUTION CONTROL BMP NOTES RELATIVE TO CONSTRUCTION ACTIVITIES.
8. FOR MORE INFORMATION ON STORMWATER POLLUTION CONTROL MEASURES AND REQUIREMENTS PLEASE CONTACT THE ENGINEERING DEPARTMENT. CITY OF ENCINITAS AT (760) 633-2890.

STORMWATER POLLUTION CONTROL REQUIREMENTS

1. THE CONTRACTOR SHALL COMPLY WITH CALIFORNIA VEHICLE CODE SECTION 23114 REQUIRING VEHICLES TRANSPORTING LOADS OF AGGREGATE MATERIALS TO COVER/TARP THE MATERIAL, OR IF NOT COVERED, REQUIRES THE MATERIAL TO REMAIN SIX INCHES FROM THE UPPER EDGE OF THE CONTAINER AREA WHERE THE MATERIAL CONTACTS THE SIDES, FRONT, AND BACK OF THE CARGO CONTAINER AREA, AND REQUIRES THAT THE LOAD SHALL NOT EXTEND, AT ITS PEAK, ABOVE ANY PART OF THE UPPER EDGE OF THE CARGO CONTAINER AREA.
2. THE CONTRACTOR SHALL PROHIBIT ENGINE IDLING WHILE WAITING TO LOAD OR UNLOAD IF THE EXPECTED WAIT EXCEEDS TEN (10) MINUTES.
3. BEST MANAGEMENT PRACTICES (BMPS) TO CONTAIN ACCIDENTAL SPILLS OF HAZARDOUS MATERIALS SHALL BE UTILIZED WHEN PERFORMING MOBILE OR STATIONARY VEHICLE MAINTENANCE OR REFUELING.
4. THE CONTRACTOR SHALL USE CONSTRUCTION VEHICLES OR EQUIPMENT WITH PROPERLY OPERATING AND MAINTAINED MUFFLERS.
5. STAGING AREAS DURING CONSTRUCTION SHALL ONLY BE LOCATED AS SHOWN ON THE PLANS.
6. THE CONTRACTOR SHALL CONTROL DUST TO A NON-NUISANCE LEVEL, AS DETERMINED BY THE ENGINEER, BY APPLICATION OF WATER AND/OR OTHER DUST PALLIATIVES ON ALL DISTURBED AREAS. WATER SHALL NOT BE APPLIED AT A RATE THAT RESULTS IN SURFACE RUNOFF.
7. THE CONTRACTOR SHALL SWEEP PAVED STREETS AND PARKING AREA FROM WHICH CONSTRUCTION ACCESS IS TAKEN TO REMOVE DIRT CARRIED FROM THE WORK AREA TO THE EXISTING ROADWAY TO KEEP VEHICLES FROM PULVERIZING THE DIRT INTO FINE PARTICLES.
8. SOIL EXCAVATION, CLEARING OR GRADING SHALL BE TERMINATED WHEN WIND SPEEDS EXCEED 25 MPH FOR AN HOURLY AVERAGE.
9. THE CONTRACTOR SHALL REQUIRE LOW/NITROGEN OXIDE (NOX)-EMISSION TUNE-UPS FOR ALL ON-SITE CONSTRUCTION EQUIPMENT PRIOR TO MOBILIZATION AND AT A MINIMUM OF EVERY NINETY (90) DAYS.
10. TEMPORARY SILT FENCE SHALL BE INSTALLED TO ENCOMPASS THE LIMITS OF PROJECT IMPACT AREAS (INCLUDING CONSTRUCTION STAGING AREAS AND ACCESS ROUTES) TO PREVENT HABITAT IMPACTS AND PREVENT THE SPREAD OF SILT FROM THE CONSTRUCTION ZONE INTO ADJACENT HABITATS TO BE AVOIDED. ADDITIONALLY, ALL EMPLOYEES OR CONTRACTORS SHALL STRICTLY LIMIT THEIR ACTIVITIES, VEHICLES, EQUIPMENT, AND CONSTRUCTION MATERIALS TO THE FENCED PROJECT FOOTPRINT. THE TEMPORARY SILT FENCE SHALL BE REMOVED UPON PROJECT COMPLETION.
11. THE CONTRACTOR SHALL AVOID CONSTRUCTION AND GRADING DURING PERIODS OF INCLEMENT WEATHER.
12. WHERE FEASIBLE, THE CONTRACTOR SHALL COVER SOIL STOCKPILES AND EXPOSED (GRADED) SLOPES WITH PLASTIC SHEETING DURING PREDICTED OR ACTUAL INCLEMENT WEATHER CONDITIONS.
13. THE CONTRACTOR SHALL PLACE A SILT CURTAIN OR OTHER DRAINAGE CONTROL DEVICE AROUND CONSTRUCTION AREAS TO PROTECT NATURAL DRAINAGE CHANNELS FROM SEDIMENTATION.
14. THE CONTRACTOR SHALL CONSTRUCT DRAINAGE CONTROL DEVICES TO DIRECT SURFACE WATER RUNOFF AWAY FROM SLOPES AND OTHER GRADED AREAS AND DRAINAGE TO SAN ELIJO LAGOON. PLACE HAY BALE BARRIERS OR GRAVEL BAGS ALONG THE TOES OF GRADED SLOPES TO HELP CONTROL AND REDUCE SEDIMENTATION DURING GRADING OPERATIONS.
15. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENTATION/DESILTING BASINS WHERE NECESSARY BETWEEN GRADED AREAS AND NATURAL RUNOFF COURSES AND STORM DRAINS TO MINIMIZE DOWNSTREAM SEDIMENT INFUX DURING GRADING.
16. THE CONTRACTOR SHALL MINIMIZE DISTURBED SLOPES TO REDUCE DISTURBANCE TO EXISTING VEGETATION AND SLOPES.

REQUIREMENTS IN SAN ELIJO LAGOON AND CARDIFF STATE BEACH VICINITY

1. TO AVOID ATTRACTING PREDATORS OF THE LIGHT-FOOTED CLAPPER RAIL, BROWN PELICAN, AND CALIFORNIA GNATCATCHER, THE PROJECT SITE SHALL BE KEPT CLEAN OF DEBRIS AT ALL TIMES. ALL FOOD RELATED TRASH ITEMS SHALL BE ENCLOSED IN SEALED RECEPTACLES AND REGULARLY REMOVED FROM THE SITE.
2. IF WORK OCCURS BEYOND THE FENCED OR DEMARCATED LIMITS OF IMPACT, ALL WORK SHALL CEASE UNTIL THE PROBLEM HAS BEEN REMEDIATED TO THE SATISFACTION OF CITY OF ENCINITAS AND PERMITTING AGENCIES.
3. TO REFRAIN FROM TRAPPING NOCTURNAL SPECIES, ALL TRENCHES THAT REMAIN OPEN OVERNIGHT SHALL BE COVERED (I.E. STEEL PLATES) THROUGHOUT THE DURATION OF CONSTRUCTION TRENCHING ACTIVITIES.
4. NIGHT LIGHTING OF CONSTRUCTION AREAS SHALL BE OF THE LOWEST ILLUMINATION NECESSARY FOR HUMAN SAFETY, SELECTIVELY PLACED, SHIELDED AND DIRECTED AWAY FROM NATURAL HABITATS.
5. PETS OF PROJECT PERSONNEL ARE NOT ALLOWED ON THE PROJECT SITE.
6. FOR MOBILE RUBBER-TIRED OR TRACKED VEHICLES, THE FOLLOWING REQUIREMENTS SHALL APPLY:
 - a. ALL EQUIPMENT MAINTENANCE, STAGING, AND DISPENSING OF FUEL, OIL, COOLANT, OR ANY OTHER SUCH ACTIVITIES SHALL OCCUR IN DESIGNATED FENCED PROJECT STAGING AREA(S) REMOTE FROM WATERS OF THE UNITED STATES OR IN EXISTING COMMERCIAL FUELING STATIONS OR MAINTENANCE BUSINESS ESTABLISHMENT.
 - b. ONSITE VEHICLE AND EQUIPMENT MAINTENANCE AND REFUELING SHALL ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR.
 - c. PROVIDE FULL-TIME SECONDARY CONTAINMENT OF A VOLUME GREATER THAN THE MAXIMUM STATIONARY STORAGE VOLUME WITH DRIP PANS OR FUEL RESISTANT POLYETHYLENE-LINED BASIN AREAS DIRECTLY UNDER ALL AREAS OF POTENTIAL GREASE, OIL, HYDRAULIC FLUID, AND FUEL LEAKAGE OR SPILLS.
 - d. DESIGNATED STAGING AREAS SHALL BE LOCATED IN PREVIOUSLY COMPACTED AND DISTURBED AREAS IN SUCH A MANNER AS TO PREVENT ANY RUNOFF FROM ENTERING WATERS OF THE UNITED STATES, AND AS SHOWN ON THE CONSTRUCTION PLANS.
 - e. FUELING OF EQUIPMENT SHALL TAKE PLACE WITHIN EXISTING PAVED AREAS GREATER THAN 100 FEET FROM WATERS OF THE UNITED STATES.
 - f. "TOPPING-OFF" OF FUEL TANKS SHALL NOT BE PRACTICED.
 - g. CONTRACTOR EQUIPMENT SHALL BE CHECKED FOR LEAKS PRIOR TO OPERATION AND REPAIRED AS NECESSARY.
7. FOR NON-TIRED MOTOR DRIVEN EQUIPMENT THAT REMAINS STATIONARY DURING THE DRILLING OPERATION, THE FOLLOWING REQUIREMENTS SHALL APPLY:
 - a. ONSITE VEHICLE AND EQUIPMENT MAINTENANCE AND REFUELING SHALL ONLY BE USED WHERE IT IS IMPRACTICAL TO SEND EQUIPMENT OFFSITE FOR MAINTENANCE AND REPAIR
 - b. PROVIDE FULL-TIME SECONDARY CONTAINMENT OF A VOLUME GREATER THAN THE MAXIMUM STATIONARY STORAGE VOLUME WITH DRIP PANS OR FUEL RESISTANT POLYETHYLENE-LINED BASIN AREAS DIRECTLY UNDER ALL AREAS OF POTENTIAL GREASE, OIL, HYDRAULIC FLUID, AND FUEL LEAKAGE OR SPILLS.
 - c. VEHICLES AND EQUIPMENT SHALL BE INSPECTED EACH DAY OF USE FOR LEAKS. LEAKS SHALL BE REPAIRED IMMEDIATELY OR PROBLEM VEHICLES OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.
 - d. KEEP AMPLE SUPPLIES OF SPILL CLEANUP MATERIALS ON-SITE. IMMEDIATELY CLEAN UP SPILLS AND PROPERLY DISPOSE OF CONTAMINATED SOIL AND CLEANUP MATERIALS.
 - e. ALL FUELING TRUCKS AND FUELING AREAS ARE REQUIRED TO HAVE SPILL RESPONSE KITS AND/OR USE OTHER SPILL PROTECTION DEVICES.
 - f. INSPECT EQUIPMENT EVERY DAY AT STARTUP AND REPAIR EQUIPMENT AS NEEDED, (I.E., WORN OR DAMAGED HOSES, FITTINGS, AND GASKETS). RECHECK EQUIPMENT AT SHIFT CHANGES AND AT THE END OF THE DAY AND MAKE ANY NEEDED REPAIRS BEFORE CONTINUING WORK.
 - g. KEEP VEHICLES AND EQUIPMENT CLEAN; DO NOT ALLOW EXCESSIVE BUILD-UP OF OIL AND GREASE.
 - h. SEGREGATE AND REMOVE FROM THE SITE ALL OIL, GREASE, HYDRAULIC FLUID, SOLVENT, AND FUEL WASTES IMMEDIATELY FOLLOWING MAINTENANCE AND/OR REFUELING FOR PROPER OFF-SITE DISPOSAL.
 - i. INSPECT AND VERIFY THAT ACTIVITY-BASED REQUIREMENTS ARE IN PLACE PRIOR TO THE COMMENCEMENT OF ASSOCIATED ACTIVITIES. INSPECT REQUIRED CONTAMINATION MITIGATION FEATURES ON A DAILY BASIS DURING THE COURSE OF WORK.
8. BEST MANAGEMENT PRACTICES (BMPS) TO CONTAIN ACCIDENTAL SPILLS OF HAZARDOUS MATERIALS SHALL BE UTILIZED WHEN PERFORMING VEHICLE MAINTENANCE OR REFUELING.
 - a. THE CONTRACTOR SHALL INCORPORATE BMPS AS SHOWN ON THE PLANS AND SUCH AS THE USE OF SILT FENCING AND DIRECTION OF CONSTRUCTION AREA DRAINAGE TO EXISTING STORM DRAIN FACILITIES RATHER THAN TOWARD WATERWAYS. DIRECTION OF CONSTRUCTION AREA DRAINAGE WOULD BE ACCOMPLISHED THROUGH USE OF GRAVEL BAGS, HAY BALES, OR SIMILAR DEVICES ALONG ALL GRADED AREAS TO MINIMIZE SEDIMENT TRANSPORT

CC14B - CS664



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 605 Third Street Encinitas, CA 92024
 760.942.5147 Fax 760.632.0164

CITY OF ENCINITAS	SAN ELIJO JOINT POWERS AUTHORITY
REVIEWED BY: _____ DATE: _____	REVIEWED: MIKE THORNTON DATE: _____ GENERAL MANAGER

100% DESIGN REVIEW
NOT FOR CONSTRUCTION

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT
					ENC-1042 ELEV 16,938' (NAVD88) RECORD OF SURVEY 18416	HORIZONTAL: AS SHOWN VERTICAL: NONE	
					FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"		

DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS
STEPHEN L. DEERING	R.C.E. NO. 26514	DATE: 3/31/16	RECOMMENDED BY: EDWARD DEANE RCE NO. 48971 APPROVED BY: GLENN PRUIM RCE NO. 51274

CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.
COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664	G-5
SPECIAL CONDITION NOTES - 3	SHEET 5 OF 26

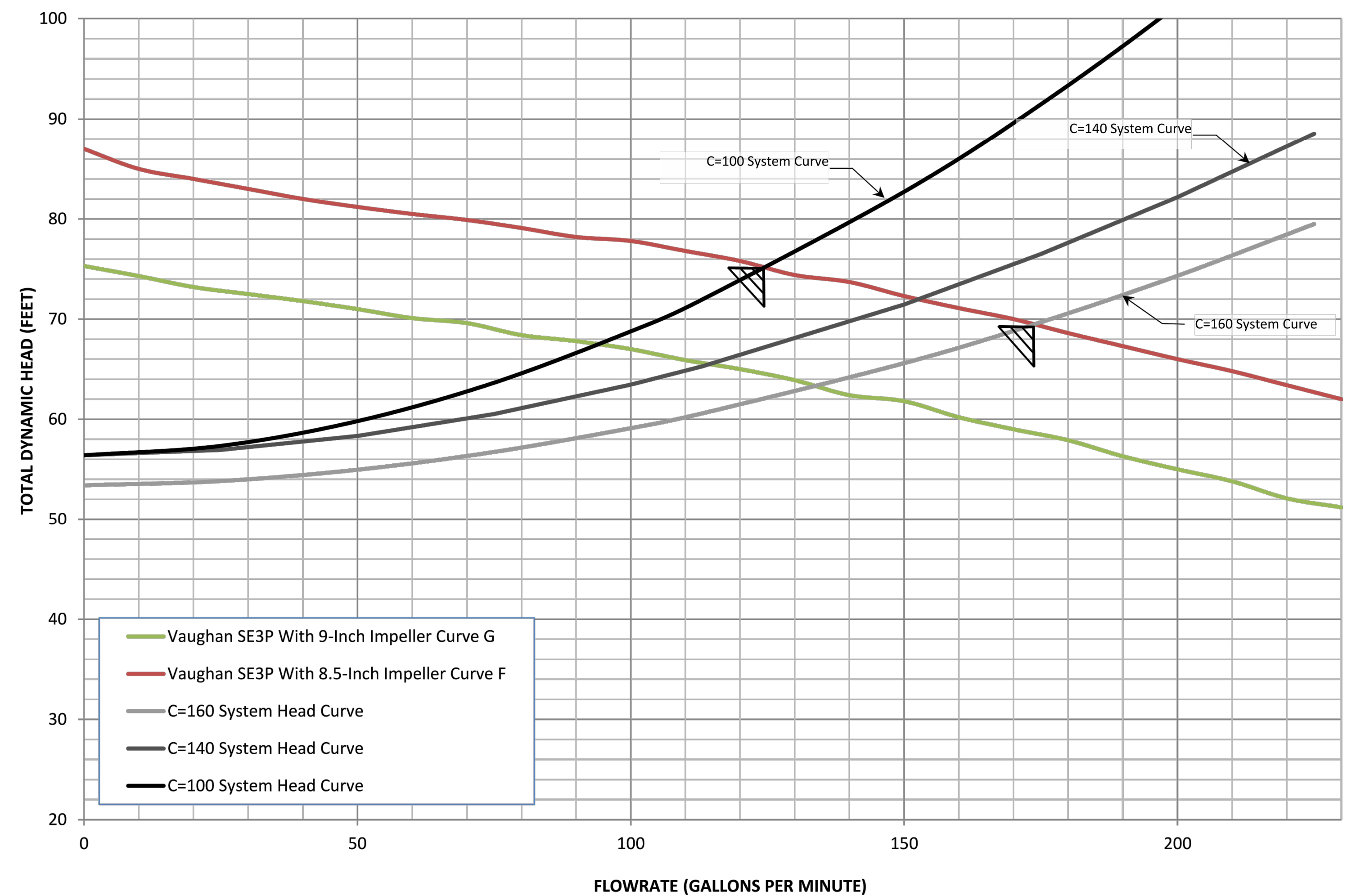
EROSION CONTROL

1. IN CASE EMERGENCY WORK IS REQUIRED, CONTACT GREG SHIELDS AT (760) 633-2778.
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 CONTINENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
3. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IN THE APPROVED STORM WATER POLLUTION CONTROL PLAN (WPCP). DEVICES SHOWN IN THE WPCP SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ENGINEERING INSPECTOR. THE CONTRACTOR SHALL GIVE THE CITY A 24 HOUR TELEPHONE NUMBER AND THE NAME(S) OF THE PERSON(S) RESPONSIBLE FOR EMERGENCY WORK.
4. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER AFTER RUN-OFF PRODUCING RAINFALL.
5. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE CITY ENGINEER DUE TO AN INCOMPLETE GRADING OPERATION OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHEN IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
7. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED WPCP SHALL BE INCORPORATED HEREON.
8. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORK DAY.
9. ALL REMOVABLE PROTECTIVE DEVICES SHOWN IN THE APPROVED WPCP SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN FIVE (5) DAY RAIN PROBABILITY FORECAST EXCEEDS FORTY PERCENT (40%). SILT AND OTHER DEBRIS SHALL BE REMOVED AFTER EACH RAINFALL.
10. BMP DEVICES SHOWN IN THE WPCP SHALL NOT BE MOVED OR MODIFIED WITHOUT WRITTEN APPROVAL OF THE CITY ENGINEER OR HIS REPRESENTATIVE.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL EROSION CONTROL AS NECESSARY THROUGHOUT THE DURATION OF CONSTRUCTION.
12. ALL EROSION CONTROL MEASURES REQUIRED TO RETAIN SEDIMENT ON-SITE AND TO SAFELY DISCHARGE ANY ACCELERATED RUNOFF GENERATED BY THE PROJECT SHALL BE INSTALLED WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40 PERCENT.
13. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE APPROVED WPCP WHICH INTERFERE WITH WORK SHALL BE RELOCATED OR MODIFIED AS THE WORK PROGRESSES AS RECOMMENDED BY A QUALIFIED SWPPP DEVELOPER (QSD) AND AS APPROVED BY THE CITY ENGINEER.
14. EROSION CONTROL SYSTEMS SHALL BE SERVICED AND MAINTAINED TO PROVIDE CONTINUOUS CAPACITY AND ADEQUACY TO FUNCTION AS DESIGNED. AFTER PREPARATION EXCEEDING ONE QUARTER (1/4) INCH IN ANY 12-HOUR PERIOD OR UPON THE DIRECTION OF THE CITY ENGINEER, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS. DRY AND OTHERWISE RESTORED TO THE ORIGINAL DESIGN CONDITION.
15. PAVED STREETS, SIDEWALKS, AND OTHER IMPROVEMENTS SHALL BE MAINTAINED IN A NEAT AND CLEAN CONDITION. FREE OF LOOSE SOIL, CONSTRUCTION DEBRIS, AND TRASH. STREET SWEEPING OR OTHER EQUALLY EFFECTIVE MEANS SHALL BE USED TO CLEAN STREETS EXCEPT FOR THE REMOVAL OF FINE MATERIAL NOT OTHERWISE REMOVED BY SWEEPING OR OTHER MECHANICAL MEANS.
16. STANDBY CREWS SHALL BE ALERTED BY THE CONTRACTOR FOR EMERGENCY WORK DURING RAINSTORMS.
17. GRAVEL BAGS AND NECESSARY MATERIALS IN ACCORDANCE WITH THE APPROVED WPCP, SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES OR TO REPAIR ANY DAMAGED EROSION CONTROL MEASURES WHEN RAIN IS IMMINENT. A STANDBY CREW SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
18. ALL UTILITY TRENCHES SHALL BE BACKFILLED WITHIN 24 HOURS AND MUST BE BACKFILLED BEFORE THE END OF WORK DAY IF A FORTY PERCENT (40%), OR GREATER, CHANCE OF RAIN IS PREDICTED.
19. A GRAVEL BAG SILT BASIN OR TRAP SHALL BE PROVIDED AT EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.

20. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED STREET AREAS AT THE INTERVALS INDICATED BELOW: VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE CITY ENGINEER AND SHALL EXTEND HALF WAY ACROSS THE STREET AT RIGHT ANGLES TO THE CENTERLINE. EARTH DIKES MAY NOT BE USED AS VELOCITY CHECK DAMS. CHECK DAM INSTALLATION SHALL PROVIDE FOR THE PREVENTION OF EROSION AROUND THE ENDS OF THE DAM.

GRADE OF STREET	INTERVAL
< 2%	AS REQUIRED
2% - 4%	100 FEET
4% - 10%	50 FEET
> 10%	25 FEET

PUMP AND SYSTEM CURVE



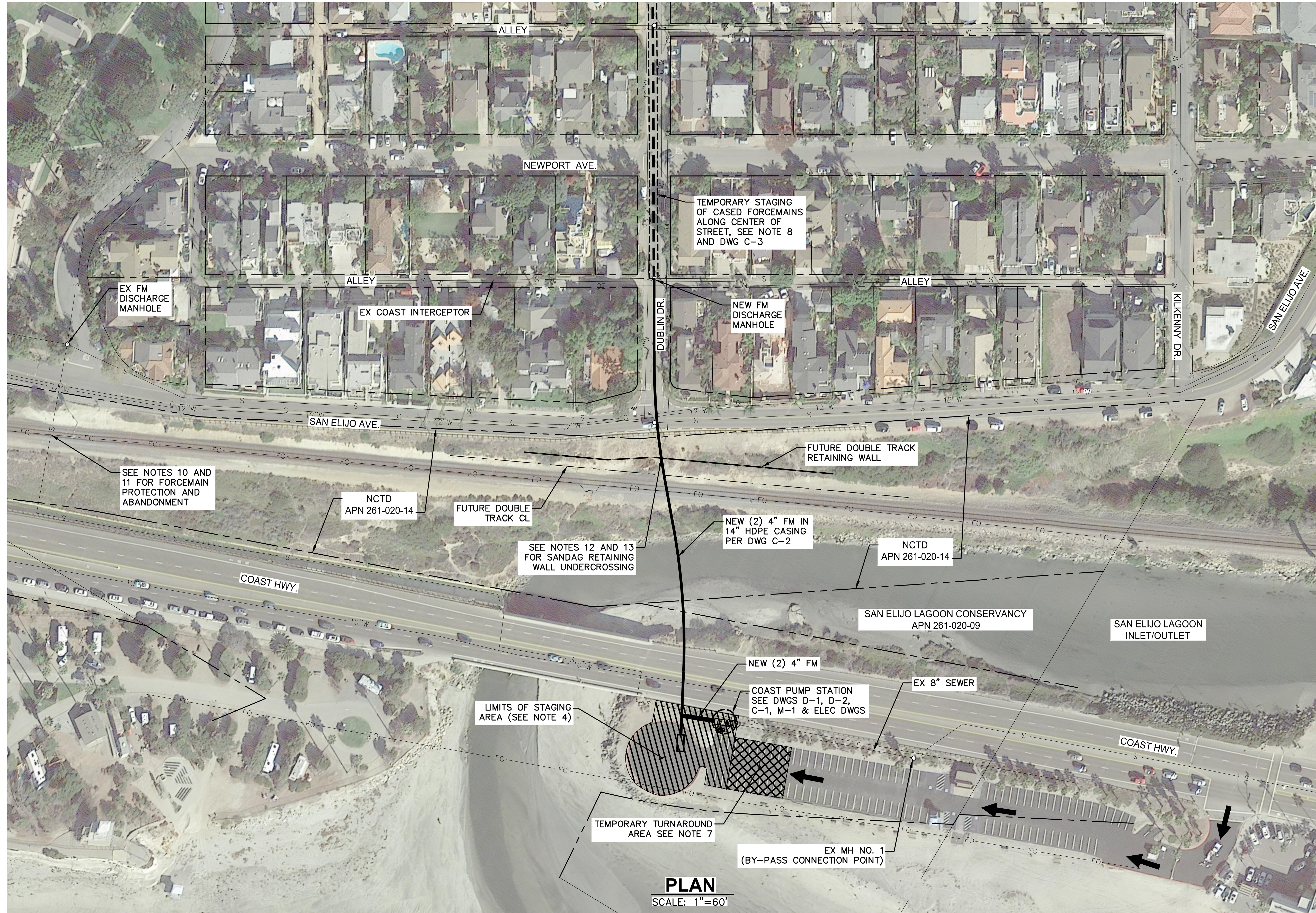
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CITY OF ENCINITAS		SAN ELIJO JOINT POWERS AUTHORITY	
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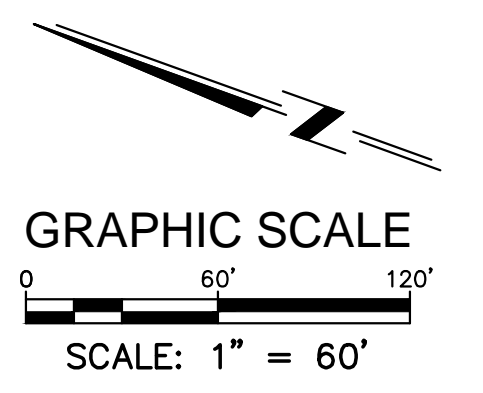
CC14B - CS664

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.	
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					FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"	VERTICAL: NONE								
													SHEET 6 OF 26	



- NOTES:**
- EXISTING FACILITIES PRESENTED ON THIS DRAWING ARE BASED ON THE AS-BUILT INFORMATION SUPPLIED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LAYOUTS AND DIMENSIONS FOR THE CONFORMANCE WITH EXISTING CONDITIONS AS REQUIRED FOR CONSTRUCTION OF THE IMPROVEMENTS INCLUDED IN THIS PROJECT.
 - CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ALL DISTURBED SIDEWALKS PER SDRSD G-7, CURB AND GUTTER PER SDRSD G-2, PAVEMENT PER SDRSD G-24A TYPE B AND LANDSCAPING PER THE APPROVAL OF THE CITY ENGINEER.
 - PRIMARY WORK IS SHOWN WITH DARK LINES.
 - CONTRACTOR PHASE 1 HDD LAYDOWN AREA SHALL BE CONFINED TO THE AREA SHOWN. ALL CONTRACTOR EQUIPMENT SHALL BE STORED IN LAYDOWN AREA WHEN NOT IN USE. CONTRACTOR IS RESPONSIBLE FOR SECURITY AND MAINTENANCE OF ALL EQUIPMENT AND SHALL PROTECT AS NECESSARY.
 - CONTRACTOR SHALL INGRESS AND EGRESS THE SITE USING THE ROUTE INDICATED.
 - WORK SHALL BE CONDUCTED BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM. THE CONTRACTOR SHALL PAY CITY STAFF OVERTIME RATES FOR ALL WORK CONDUCTED OUTSIDE ON NORMAL BUSINESS HOURS AS DESCRIBED IN THE GENERAL CONDITIONS.
 - 22 PARKING STALLS USED FOR CONSTRUCTION STAGING AND TURN AROUND AREA DURING PHASE 1 HDD. CONTRACTOR TO PURCHASE PARKING FOR STALLS USED EACH DAY DURING CONSTRUCTION.
 - CONTRACTOR PIPE STRING LAY DOWN AREA SHALL BEGIN AT THE INTERSECTION OF DUBLIN DRIVE AND THE ALLEY JUST EAST OF SAN ELIJO AVE AND EXTEND 600' EAST. PROTECT CASING AND CARRIER PIPES WITH K-RAIL THAT INCLUDE FLASHING DELINEATOR LIGHTS TO WARN DRIVERS OF STAGED PIPE AT NIGHT. CONTRACTOR SHALL MAINTAIN TRAFFIC IN BOTH DIRECTIONS AND DEVELOP DETOURS FOR CROSSING TRAFFIC. ALL TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE CITY OF ENCINITAS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL MAINTAIN FIRE DEPARTMENT ACCESS DURING ALL PHASES OF CONSTRUCTION.
 - ENTIRE EXISTING 4-IN DIP FORCEMAIN CROSSING NCTD PARCEL SHALL BE ABANDONED IN PLACE WITH ENGINEERED FILL. EXISTING 4-IN FORCEMAIN PASSES THROUGH AN EXISTING 50-FT LONG STEEL CASING UNDER ORIGINAL TRACK. STEEL CASING SHALL BE ABANDONED IN PLACE. SEE DRAWING D-3 FOR DETAILS.
 - IF SANDAG DOUBLE TRACK PROJECT WORK IN THIS AREA PRECEDES INSTALLATION AND OPERATION OF THE NEW FORCEMAIN, THEN THE SANDAG CONTRACTOR WILL INSTALL A CONCRETE PAD FOR TEMPORARY PROTECTION OF THE EXISTING 4-IN FORCEMAIN IN LIEU OF EXTENDING THE 12-IN CASING BEYOND THE PROPOSED SECOND TRACK CROSSING.
 - THE SANDAG RETAINING WALL DESIGN INCLUDES DEEP SOLDIER PILES. SANDAG WILL PROVIDE A 15-FT WIDE GAP IN THE SPACING OF THE SOLDIER PILES CENTERED ON THE NEW CITY OF ENCINITAS FORCEMAIN UNDERCROSSING.
 - THE CITY CONTRACTOR SHALL FIELD-VERIFY LOCATION AND DEPTH OF DOUBLE TRACK RETAINING WALL SOLDIER PILES PRIOR TO FORCEMAIN PILOT BORING AND FORCEMAIN INSTALLATION. NOTE THAT THE SANDAG PLANS AND ELEVATIONS ARE BASED ON THE NAVD29 VERTICAL DATUM AND THE CITY PLANS ARE BASED ON NGVD88 DATUM. CITY CONTRACTOR SHALL PROVIDE ELEVATIONS FOR TOP OF RETAINING WALL, BOTTOM OF RETAINING WALL, AND BOTTOM OF ADJACENT SOLDIER PILES IN BOTH DATUMS FOR AVOIDANCE OF CONFLICT AND RECORD DRAWING PURPOSES.

← CONTRACTOR ACCESS ROUTE

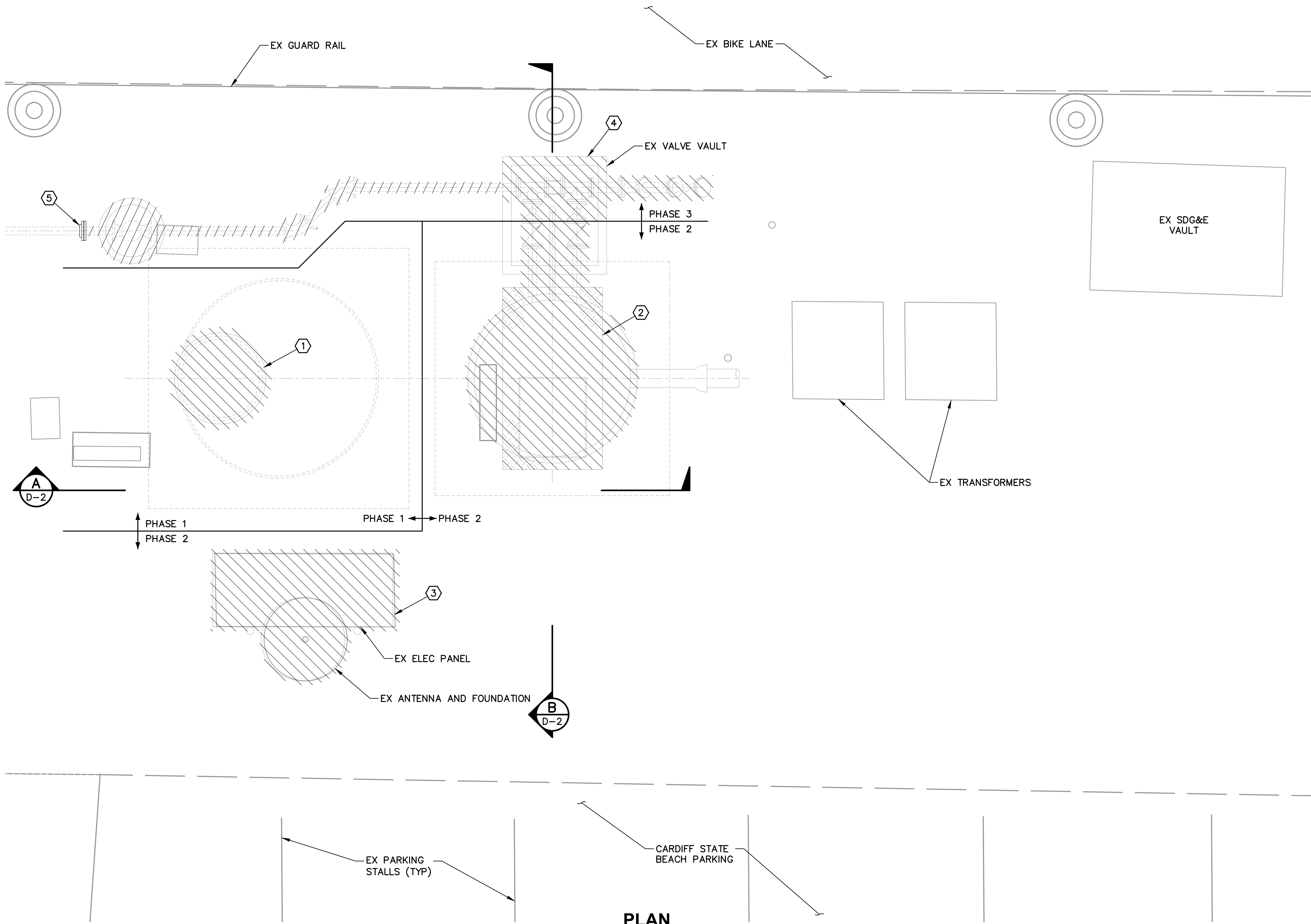


PLAN
SCALE: 1"=60'

	DUDEK Dudek & Associates, Inc. 605 Third Street Encinitas, CA 92024 760.942.5147 Fax 760.632.0164		CITY OF ENCINITAS REVIEWED BY: _____ DATE: _____	SAN ELIJO JOINT POWERS AUTHORITY REVIEWED: MIKE THORNTON DATE: _____ GENERAL MANAGER	<div style="border: 2px solid black; padding: 5px; text-align: center;"> 100% DESIGN REVIEW NOT FOR CONSTRUCTION </div>																														
	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>APPROVED</th> <th>DATE</th> <th>REFERENCES</th> <th>DATE</th> <th>BENCHMARK</th> <th>SCALE</th> <th>SPECIAL DISTRICT</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ENC-1042 ELEV 16.938' (NAVD88) RECORD OF SURVEY 18416</td> <td>HORIZONTAL: AS SHOWN VERTICAL: NONE</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"</td> <td></td> <td></td> </tr> </tbody> </table>	REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT						ENC-1042 ELEV 16.938' (NAVD88) RECORD OF SURVEY 18416	HORIZONTAL: AS SHOWN VERTICAL: NONE							FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"			<table border="1"> <thead> <tr> <th>DESIGNED BY</th> <th>DRAWN BY</th> <th>CHECKED BY</th> <th>APPROVALS</th> </tr> </thead> <tbody> <tr> <td>STEPHEN L. DEERING</td> <td>R.C.E. NO. 26514</td> <td>EXP. 3/31/16</td> <td> RECOMMENDED BY: EDWARD DEANE RCE NO. 48971 DATE: _____ APPROVED BY: GLENN PRUIM RCE NO. 51274 DATE: _____ </td> </tr> </tbody> </table>	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	STEPHEN L. DEERING	R.C.E. NO. 26514	EXP. 3/31/16	RECOMMENDED BY: EDWARD DEANE RCE NO. 48971 DATE: _____ APPROVED BY: GLENN PRUIM RCE NO. 51274 DATE: _____	CITY OF ENCINITAS ENGINEERING DEPARTMENT COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664 ACCESS, STAGING AND SITE PLAN
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SOUTH COAST HIGHWAY 101



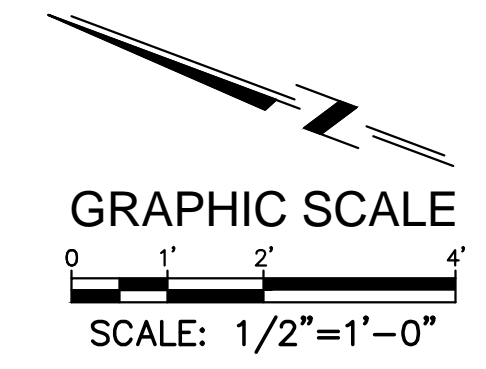
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 - a. PHASE 1 - CONTRACTOR TO DEMOLISH UPPER PORTION OF ABANDONED DRY WELL AND CONNECTING PIPING, AS NECESSARY TO INSTALL NEW VALVE VAULT
 - b. PHASE 2 - CONTRACTOR TO DEMOLISH ALL PIPING AND EQUIPMENT NECESSARY TO REHAB EXISTING WET WELL AND INSTALL NEW PIPING AND EQUIPMENT PER CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS
 - c. PHASE 3 - CONTRACTOR TO DEMOLISH EXISTING VALVE VAULT, ABOVE GROUND AIR & VACUUM VALVE AND EXPOSED PIPING WITHIN THE EXISTING PUMP STATION SITE AFTER THE NEW PUMP STATION HAS BEEN TESTED AND COMMISSIONED

DEMOLITION LEGEND

- ① REMOVE AND DISPOSE OF UPPER PORTION OF ABANDONED DRYWELL AND CONNECTING PIPING AS NECESSARY TO INSTALL NEW VALVE VAULT. REMAINING PORTION OF DRYWELL TO BE FILLED WITH CLSM PER MECHANICAL DRAWINGS - PHASE 1
- ② REMOVE AND DISPOSE OF EXISTING WETWELL HATCH, CONCRETE LID AND UPPERMOST PORTION OF CONCRETE WETWELL PRIOR TO REHAB OF EXISTING WETWELL DURING BY-PASS PUMPING OPERATION - PHASE 2
- ③ REMOVE AND DISPOSE OF EXISTING ELECTRICAL CABINET, ANTENNA, MAST AND FOUNDATION. SCADA RTU TO BE SALVAGED BY CONTRACTOR AND RE-INSTALLED IN NEW ELECTRICAL CABINETS PER ELECTRICAL DRAWINGS - PHASE 2
- ④ REMOVE AND DISPOSE OF EXISTING VALVE VAULT PIPING AND APPURTENANCES IN ACCORDANCE WITH PHASING NOTE 4 - PHASE 3
- ⑤ INSTALL 4" FLANGE ADAPTOR AND BLIND FLANGE AFTER PIPE IS ABANDONED PER SPECIFICATION SECTION 02050 - PHASE 3

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



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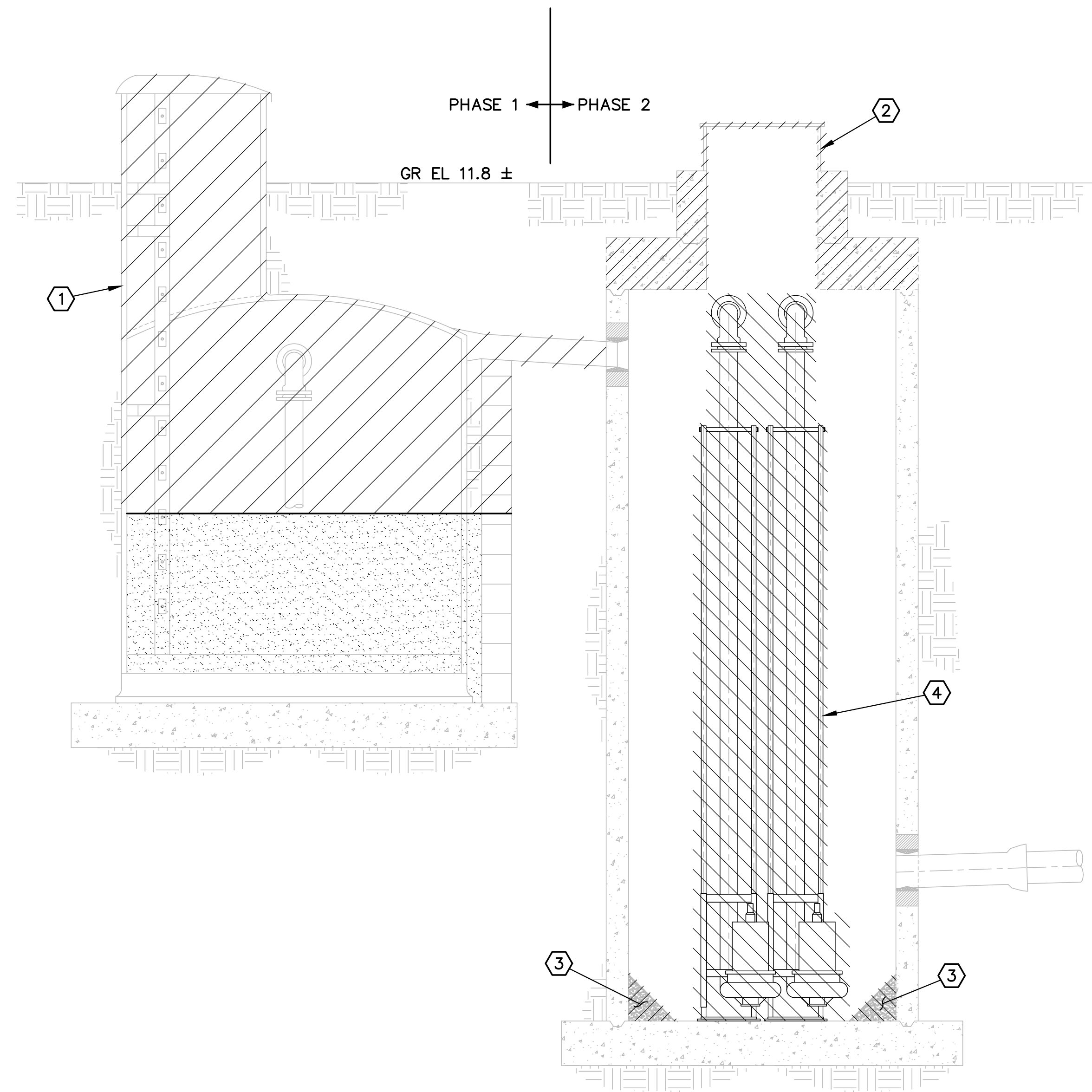
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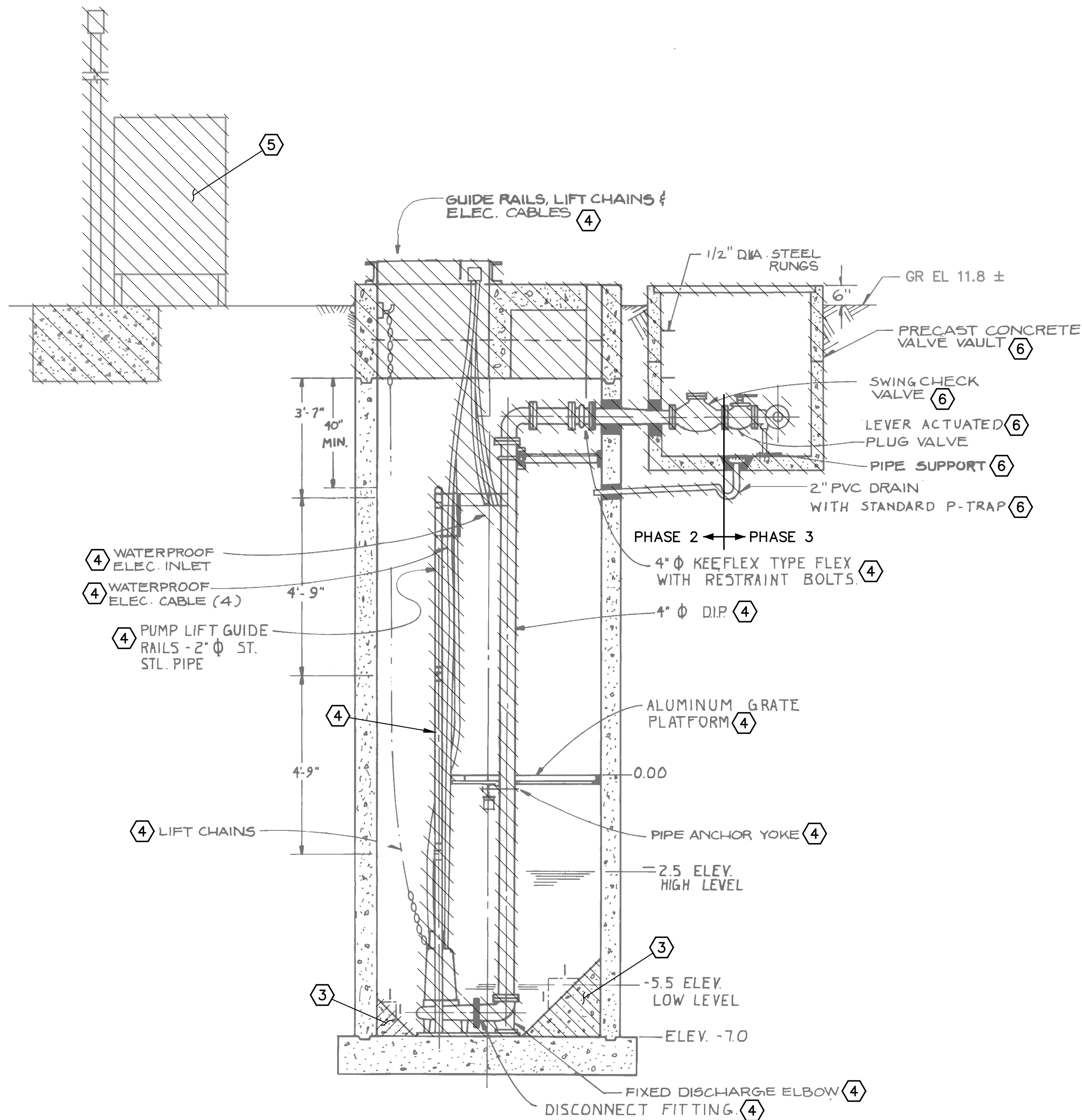
CC14B - CS664

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								DATE: _____	DATE: _____	DATE: _____	BY: GLENN PRUIM RCE NO. 51274		SHEET 8 OF 26

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



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

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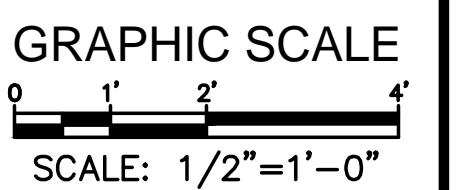
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- REMOVE AND DISPOSE OF UPPER PORTION OF ABANDONED DRYWELL AND CONNECTING PIPING AS NECESSARY TO INSTALL NEW VALVE VAULT. REMAINING PORTION OF DRYWELL TO BE FILLED WITH CLSM PER MECHANICAL DRAWINGS - PHASE 1
- REMOVE AND DISPOSE OF EXISTING WETWELL HATCH, CONCRETE LID AND UPPERMOST PORTION OF CONCRETE WETWELL PRIOR TO REHAB OF EXISTING WETWELL DURING BY-PASS PUMPING OPERATION - PHASE 2
- REMOVE AND DISPOSE OF ALL BUILT-UP GROUT SLOPE IN EXISTING WETWELL TO EXPOSE ORIGINAL FOUNDATION SURFACE TO FACILITATE INSTALLATION OF NEW WETWELL LINER PER MECHANICAL DRAWINGS - PHASE 2
- REMOVE AND DISPOSE OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT, DEBRIS AND LOOSE COATINGS FROM INSIDE OF EXISTING WETWELL TO FACILITATE REHAB PER MECHANICAL DRAWINGS - PHASE 2
- REMOVE AND DISPOSE OF EXISTING ELECTRICAL CABINET, ANTENNA, MAST AND FOUNDATION. SCADA RTU TO BE SALVAGED BY CONTRACTOR AND RE-INSTALLED IN NEW ELECTRICAL CABINETS PER ELECTRICAL DRAWINGS - PHASE 2
- REMOVE AND DISPOSE OF EXISTING VALVE VAULT PIPING AND APPURTENANCES IN ACCORDANCE WITH PHASING NOTE 4 - PHASE 3

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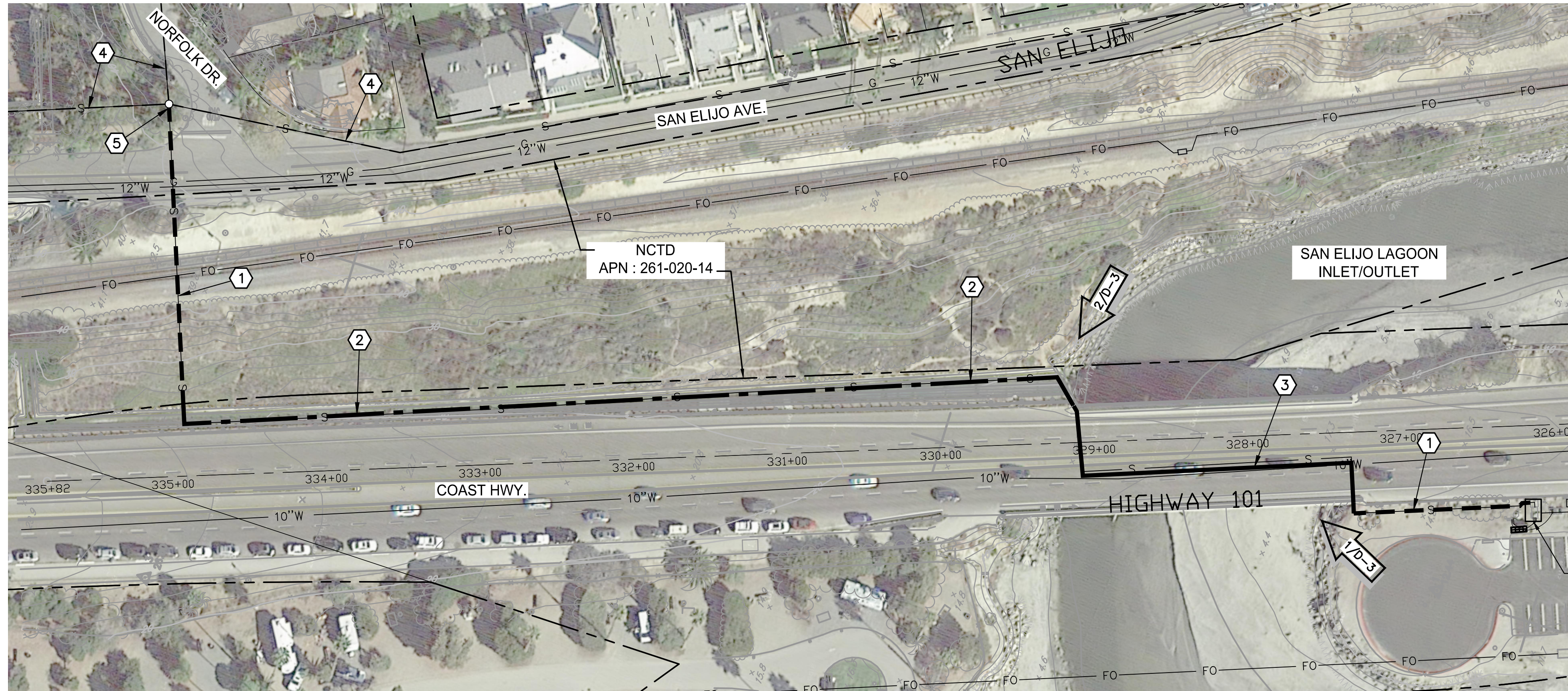
CITY OF ENCINITAS		SAN ELIJO JOINT POWERS AUTHORITY	
REVIEWED BY:	DATE:	REVIEWED: MIKE THORNTON GENERAL MANAGER	DATE:

100% DESIGN REVIEW
NOT FOR CONSTRUCTION



CC14B - CS664

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.
					ENC-1042 ELEV 16.938' (NAVD88) RECORD OF SURVEY 18416	HORIZONTAL: AS SHOWN		STEPHEN L. DEERING	EDWARD DEANE	GLENN PRUIM	RECOMMENDED APPROVED	COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664	D-2
					FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"	VERTICAL: NONE		DATE: 3/31/16	R.C.E. NO. 26514	RCE NO. 48971	DATE:	DEMOLITION EXISTING PUMP STATION SECTIONS	SHEET 9 OF 26



PLAN
SCALE: 1"=50'

- NOTES:**
1. ALL EXISTING ITEMS, CALLED OUT OR NOT, SHALL BE PROTECTED IN PLACE UNLESS EXPLICITLY SPECIFIED OTHERWISE.
 2. ALL FACILITIES SHOWN ON THIS DRAWING ARE EXISTING AND ARE REPRESENTED BASED ON REVIEW OF AVAILABLE RECORD DRAWINGS AND DESIGN DRAWINGS. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 3. THE DEMOLITION DRAWINGS PROVIDE GENERAL DEFINITION OF THE CONTRACTOR'S SCOPE FOR BIDDING AND CONSTRUCTION. THE DRAWINGS ARE NOT INTENDED TO ITEMIZE OR LIMIT DEMOLITION AND THE CONTRACTOR SHALL CONSIDER THE SCOPE IN THE CONTEXT OF THE NEW WORK DEFINED ELSEWHERE IN THE CONTRACT DOCUMENTS AND BASED ON SITE INVESTIGATIONS.
 4. DEMOLITION OF EXISTING FORCEMAIN TO BE COMPLETED ONCE NEW PUMP STATION AND FORCEMAIN IS TESTED AND ACCEPTED BY OWNER.

- DEMOLITION LEGEND - PHASE 3**
- ① - - - - UNDERGROUND PORTION OF EXISTING FORCEMAIN TO BE ABANDONED WITH ENGINEERED FILL PER SPECIFICATION SECTION 03310 AND NOTES 10 AND 11 ON DWG G-7.
 - ② - - - - UNDERGROUND PORTION OF EXISTING FORCEMAIN TO BE ABANDONED PER SPECIFICATION SECTION 02050
 - ③ - - - - ABOVE GROUND PORTION OF FORCEMAIN TO BE REMOVED AND DISPOSED OF PER SPECIFICATION SECTION 02050
 - ④ - - - - EXISTING SEWER TO REMAIN IN SERVICE
 - ⑤ - - - - FORCEMAIN TO BE ABANDONED FROM HIGH POINT IN EXISTING MANHOLE WITH ENGINEERED FILL PER SPECIFICATION SECTION 02050. AFTER FORCEMAIN IS ABANDONED END SHALL BE PLUGGED WITH WATER-TIGHT CONCRETE PLUG.



PHOTO ①
NOT TO SCALE

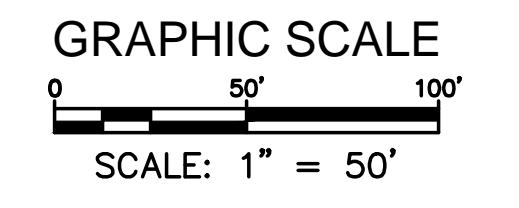
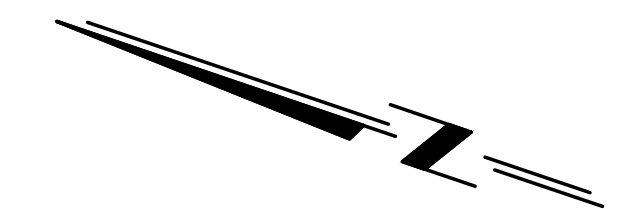
EXISTING 4" FORCEMAIN DI PIPING AND SUPPORTS UNDER COAST HIGHWAY TO BE REMOVED AND DEPOSED OF PER SPECIFICATION SECTION 02050. ALL ANCHOR BOLTS TO BE REMOVED AND REBAR AND CONCRETE TO BE REPAIRED PER DETAIL 6, DWG M-3.



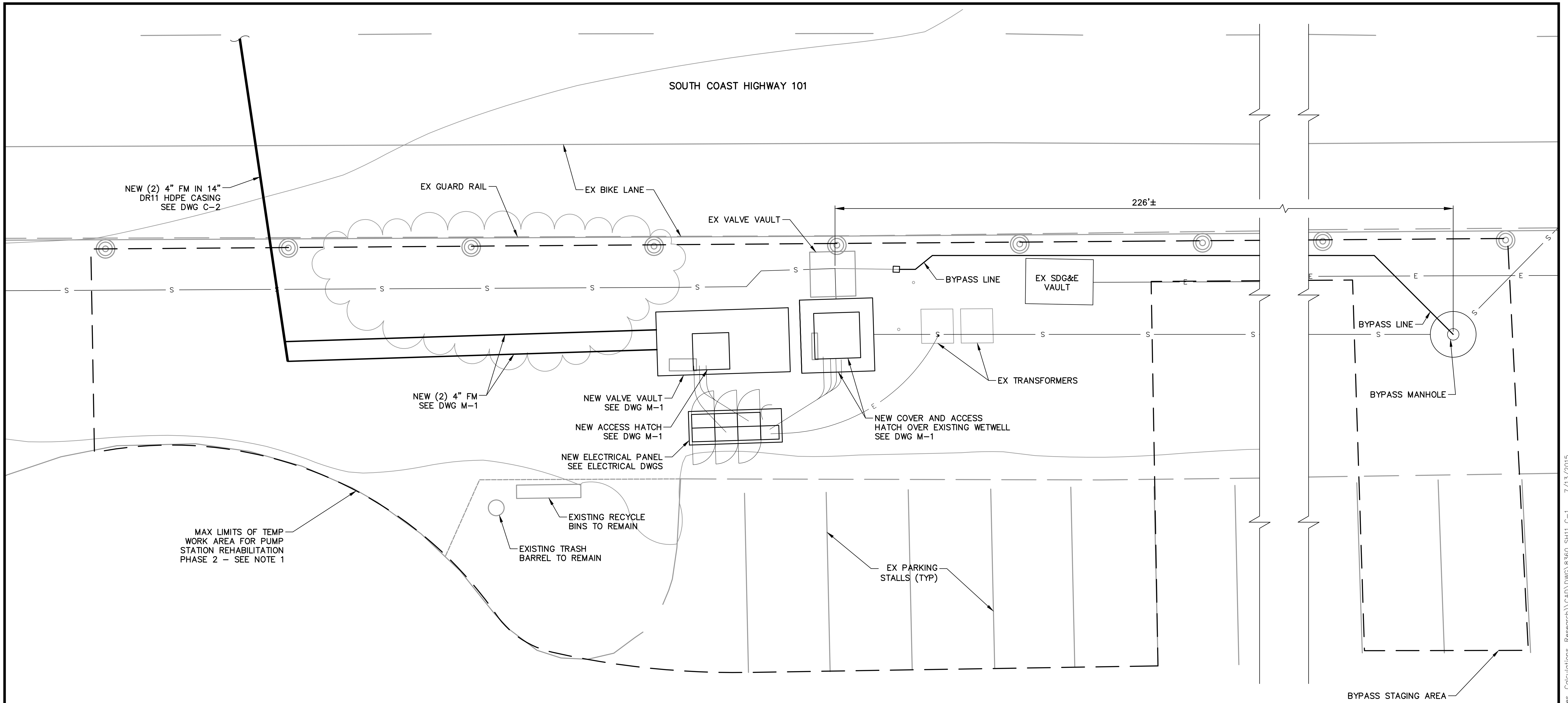
PHOTO ②
NOT TO SCALE

EXISTING GAS LINE TO BE PROTECTED IN PLACE
REMOVE AND DISPOSE OF ALL EXISTING 4" FORCEMAIN DI PIPING AND SUPPORTS PER SPECIFICATION SECTION 02050

ABANDON BELOW GRADE 4" FORCEMAIN PER SPECIFICATION SECTION 02050. CAP END WITH DI BLIND FLANGE AFTER FORCEMAIN IS ABANDONED



<p>DUDEK Dudek & Associates, Inc. 605 Third Street Encinitas, CA 92024 760.942.5147 Fax 760.632.0164</p>	CITY OF ENCINITAS		SAN ELIJO JOINT POWERS AUTHORITY		<div style="border: 2px solid black; padding: 5px; text-align: center;"> 100% DESIGN REVIEW NOT FOR CONSTRUCTION </div>					CITY OF ENCINITAS ENGINEERING DEPARTMENT		DRAWING NO.																	
	REVIEWED BY:	DATE:	REVIEWED: MIKE THORNTON	DATE:		GENERAL MANAGER	DESIGNED BY: SD STEPHEN L. DEERING		DRAWN BY: GD/AH R.C.E. NO. 26514 EXP. 3/31/16		CHECKED BY: IF EDWARD DEANE RCE NO. 48971 DATE:		APPROVALS	RECOMMENDED BY: EDWARD DEANE RCE NO. 48971 DATE:	APPROVED BY: GLENN PRUIM RCE NO. 51274 DATE:	CITY OF ENCINITAS ENGINEERING DEPARTMENT COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664	D-3												
REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT	ENC-1042 ELEV 16.938" (NAVD88) RECORD OF SURVEY 18416		HORIZONTAL: AS SHOWN		VERTICAL: NONE		DESIGNED BY: SD STEPHEN L. DEERING		DRAWN BY: GD/AH R.C.E. NO. 26514 EXP. 3/31/16		CHECKED BY: IF EDWARD DEANE RCE NO. 48971 DATE:		APPROVALS		RECOMMENDED BY: EDWARD DEANE RCE NO. 48971 DATE:		APPROVED BY: GLENN PRUIM RCE NO. 51274 DATE:		CITY OF ENCINITAS ENGINEERING DEPARTMENT COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664		DRAWING NO.	
														<p style="text-align: center;">DEMOLITION - EXISTING SEWER FORCEMAIN</p>		<p style="text-align: center;">D-3</p>		<p style="text-align: center;">SHEET 10 OF 26</p>											



PLAN

SCALE: 1"=5'

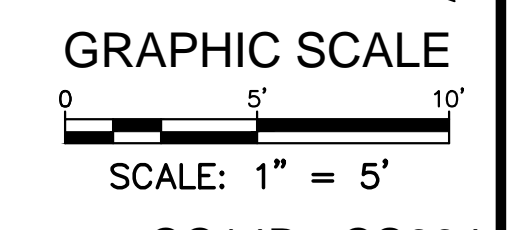
NOTE:

- (7) PARKING STALLS USED FOR PHASE 2 & 3 CONSTRUCTION STAGING DURING PS BYPASS AND REHAB WORK. CONTRACTOR TO PURCHASE PARKING PASSES FROM ON-SITE PAY MACHINE FOR STALLS USED EACH DAY DURING CONSTRUCTION.

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REVIEWED BY:	DATE:	REVIEWED: MIKE THORNTON GENERAL MANAGER	DATE:

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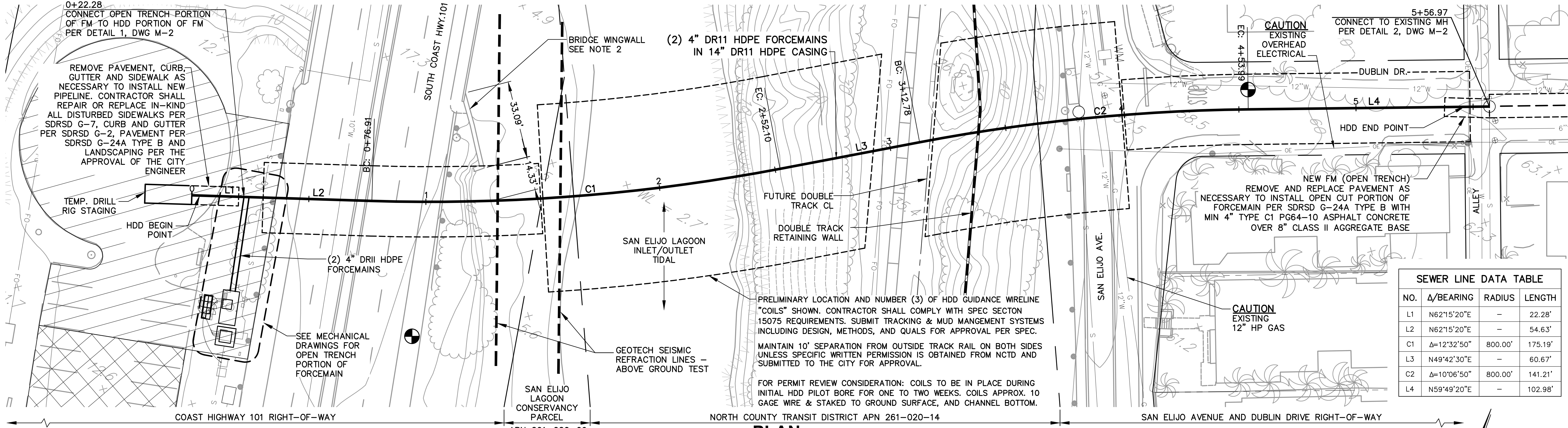
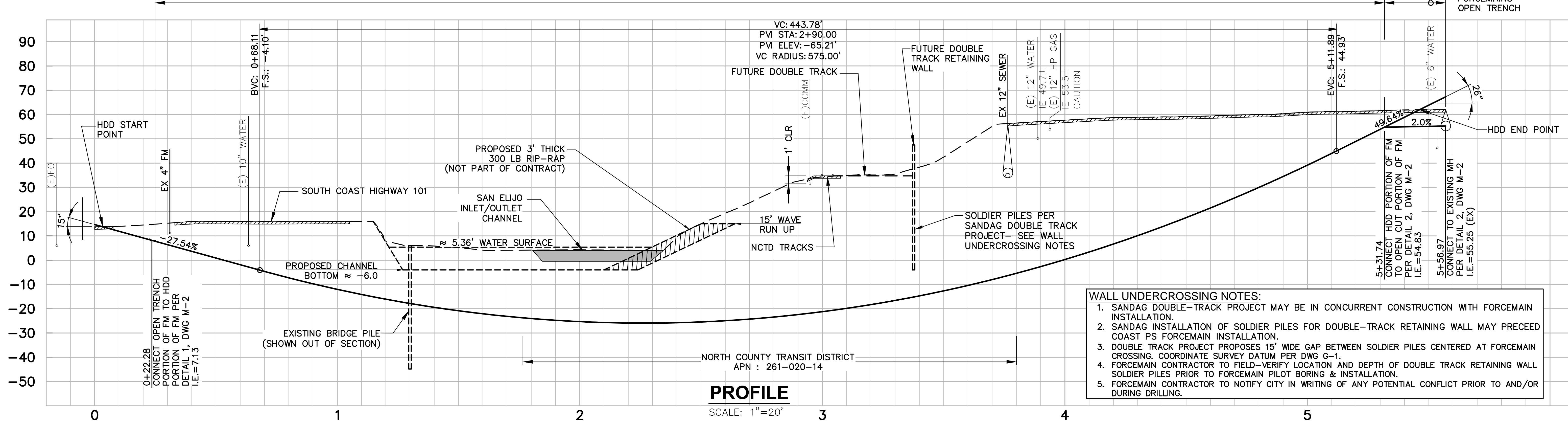


CC14B - CS664

REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT	DESIGNED BY SD	DRAWN BY GD/NH	CHECKED BY IF	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.	
					ENC-1042 ELEV 16.938' (NAVD88) RECORD OF SURVEY 18416	HORIZONTAL: AS SHOWN		PLANS PREPARED UNDER SUPERVISION OF			RECOMMENDED BY: EDWARD DEANE RCE NO. 48971	APPROVED BY: GLENN PRUIM RCE NO. 51274	COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664	C-1
					FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"	VERTICAL: NONE		STEPHEN L. DEERING	R.C.E. NO. 26514	DATE: 3/31/16	DATE:	DATE:	SITE PLAN	SHEET 11 OF 26

36x24 P.:\101\Engineering\Encinitas\8360 Coast Hwy 101 PSM\06.Design Data (Notes, Calculations, Research)\CAD\DWG\8360 SH11 C-1 7/13/2015 10:54 AM

506.87' (2) 4" DR11 HDPE FORCEMAINS IN 14" DR11 HDPE CASING



SEWER LINE DATA TABLE			
NO.	Δ/BEARING	RADIUS	LENGTH
L1	N62°15'20"E	-	22.28'
L2	N62°15'20"E	-	54.63'
C1	Δ=12°32'50"	800.00'	175.19'
L3	N49°42'30"E	-	60.67'
C2	Δ=10°06'50"	800.00'	141.21'
L4	N59°49'20"E	-	102.98'

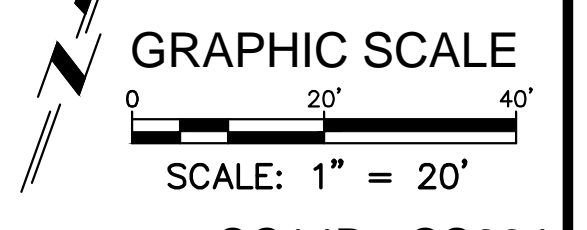
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CITY OF ENCINITAS
SAN ELIJO JOINT POWERS AUTHORITY

REVIEWED BY: _____ DATE: _____
REVIEWED: MIKE THORNTON DATE: _____
GENERAL MANAGER

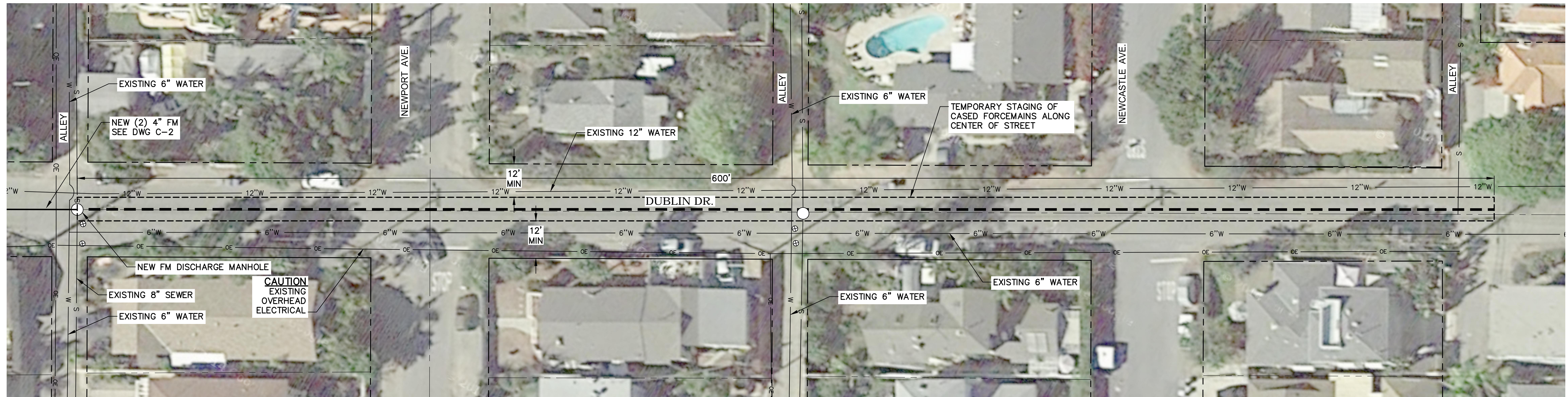
SCALE: 1"=20'
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- APPROVALS**
- DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____
PLANS PREPARED UNDER SUPERVISION OF: _____
DATE: _____
- RECOMMENDED BY: EDWARD DEANE RCE NO. 48971
DATE: _____
- APPROVED BY: GLENN PRUIM RCE NO. 51274
DATE: _____



REVISIONS	APPROVED	DATE	REFERENCES	DATE	BENCHMARK	SCALE	SPECIAL DISTRICT	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVALS	CITY OF ENCINITAS ENGINEERING DEPARTMENT	DRAWING NO.
					ENC-1042 ELEV 16.938' (NAVD88) RECORD OF SURVEY 18416	HORIZONTAL: AS SHOWN		STEPHEN L. DEERING	R.C.E. NO. 26514		RECOMMENDED BY: EDWARD DEANE RCE NO. 48971 DATE: _____	COAST HWY 101 SEWER / PUMP STATION REHABILITATION PROJECT NO. CC14B - CS664	CC14B - CS664
					FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"	VERTICAL: NONE					APPROVED BY: GLENN PRUIM RCE NO. 51274 DATE: _____	FORCEMAIN PLAN AND PROFILE	C-2
													SHEET 12 OF 26

36x24 P. 101:Engineering\Encinitas\3360 Coast Hwy 101_PSPM\06.Design Data (Notes, Calculations, Research)\CAD\DWG\8360 SH12 C-2 7/13/2015 10:55 AM

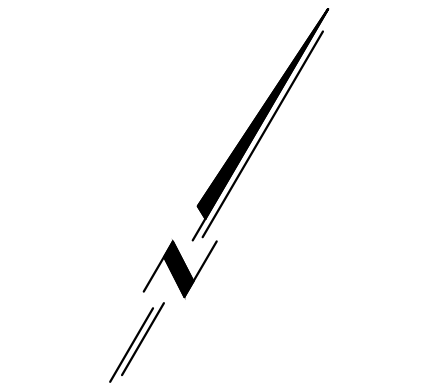


PLAN

SCALE: 1"=20'

NOTES:

1. CONTRACTOR WORKING AREA IS LIMITED TO DESIGNATED STAGING AREA. PIPE STRING TO BE PROTECTED WITH K-RAIL THAT INCLUDE FLASHING DELINEATION LIGHTS TO WARN DRIVERS OF STAGED PIPE AT NIGHT.
2. CONTRACTOR TO MAINTAIN CONTINUOUS ACCESS TO ALL DRIVEWAYS AND CROSS STREETS THROUGHOUT CONSTRUCTION.
3. CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLANS WITH APPROPRIATE DETOURS TO THE CITY OF ENCINITAS FOR APPROVAL PRIOR TO CONSTRUCTION.



SCALE: 1" = 20'

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		GENERAL MANAGER	

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					FD 2.5" SAN DIEGO COUNTY ENGINEERS DISC STAMPED "OC 136, 1968"	VERTICAL: NONE						PIPE-SIDE STAGING AREA	SHEET 13 OF 26	

ATTACHMENT 4

CEQA MITIGATION REQUIREMENTS

1. Mitigation Monitoring and Reporting Program for the City of Encinitas Coast Highway Sewer Pump Station and Force Main Improvement Project, MMRP Table

V. MITIGATION, MONITORING AND REPORTING PROGRAM:

Biological Resources

1. If construction activities are to take place during the combined bird breeding season (i.e., February 15 through August 31 for most bird species, and January 1 through August 31 for raptors), a one-time biological pre-construction survey for nesting bird species, including raptors, shall be conducted within 72 hours prior to construction to identify any active nesting. If occupied nests are present within 500 feet of the construction area, an appropriate buffer area around the nest shall be established and maintained until the juvenile birds have fledged or the nest is no longer active.
2. Prior to the start of construction, the limits of the parking lot shall be demarcated in the field by a qualified biologist using flagging and/or environmental fencing in order to avoid impacts to the adjacent conserved beach habitat. The demarcation via flagging and/or environmental fencing shall be shown on the construction plans for contractor avoidance to the satisfaction of the City of Encinitas.
3. Standard best management practices (BMPs), including drip pans, standard clean-up protocols, and other standard control measures, shall be implemented during the duration of the project construction in order to ensure that fluid leaks outside of the project impact area are avoided. The equipment leakage BMPs shall be noted on the construction plans to the satisfaction of the City of Encinitas Engineering Department.
4. The City of Encinitas shall prepare and implement a frac-out contingency plan. The contingency plan is intended to minimize the potential for a frac-out associated with tunneling activities; provide for the timely detection of frac-outs; and ensure an organized, timely, and “minimum-impact” response in the event of an unlikely frac-out and release of drilling lubricant (i.e., bentonite). The contingency plan shall require, at a minimum, the following measures:
 - A full-time monitor will attend all drilling to look for observable frac-out conditions or lowered pressure readings on drilling equipment.
 - Use of lower pressure and nontoxic leak sealants in substrates where frac-outs are more likely to occur.
 - If a frac-out is identified, all work will stop, including the recycling of drilling lubricant. In the event of a frac-out into water, the pressure of water above the tunnel will keep excess mud from escaping through the fracture. The location and extent of the frac-out will be determined, and the frac-out will be monitored for 4 hours to determine whether the drilling lubricant congeals (bentonite will usually harden, effectively sealing the frac-out location).
 - If the drilling lubricant congeals, no other actions shall be taken that would potentially suspend sediments in the water column.
 - Surface releases of bentonite shall be allowed to harden and then shall be removed.

- The contingency plan shall identify additional measures to be taken to contain or remove the drilling lubricant if it does not congeal.
- Notification procedures, including immediate notification of resource agencies, in the event of a frac-out.

Cultural Resources

5. Prior to initiation of ground disturbing activities within areas sensitive to paleontological resources, a qualified paleontological monitor shall be retained in order to monitor and recognize potential paleontological discoveries during construction. If unexpected, potentially significant paleontological resources are encountered during construction, the paleontological monitor shall have the authority to temporarily redirect or suspend construction activities and evaluate the potential significance of the find and record or salvage it.

Transportation and Traffic

6. Prior to issuance of the Major Use Permit, a construction area traffic control plan or detour plan shall be prepared by the contractor and/or the City for each location where construction activities would encroach into the Dublin Drive right-of-way (ROW), to the satisfaction of the City Engineering Department. The plans could include, but are not limited to, such features as warning signs, lights, flashing arrow boards, barricades, cones, lane closures, flaggers, pedestrian detours, parking restrictions, and restricted hours during which lane closures would not be allowed (e.g., 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.) as determined by the City.
7. The contractor and/or City shall provide advance written and/or electronic notification to affected property owners and tenants along Dublin Drive whose driveway access might be impeded during construction, to inform them about the scheduling and duration of potential obstructions and to arrange for alternative access if necessary.
8. The contractor and/or City shall provide an alternative emergency helipad location for Cardiff State Beach during the construction periods when the existing emergency helipad in the Cardiff State Beach parking lot turnaround is occupied by construction of the proposed project. The location shall be identified on construction drawings and approved by the City Engineering Department prior to construction.

VI. RESULTS OF PUBLIC REVIEW:

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