

**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: Ramona Pipeline Erosion Repair Project**  
**Certification Number R9-2019-0102**  
**WDID: 9000003369**

Reg. Meas. ID:	426361
Place ID:	852687
Party ID:	38180
Person ID:	569036

**APPLICANT: Ramona Municipal Water District**  
**105 Earlham Street**  
**Ramona, CA 92065**

**ACTION:**

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

**PROJECT DESCRIPTION**

An application dated November 7, 2018 was submitted by the Ramona Municipal Water District (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (33 U.S.C. § 1341) for the proposed Ramona Pipeline Erosion Repair Project (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on February 7, 2019. The Applicant has also applied for Clean Water Act section 404 Nationwide Permit No. 3 from the United States Army Corps of Engineers for the Project (USACE File No. SPL-2018-00737).

The Project proposes to stabilize a portion of an ephemeral stream with ungrouted rip rap in order to protect an existing access road and two water lines located in the City of Poway within central San Diego County, California. The Project's center reading is latitude 33.014967 and longitude -116.997578 .

The Applicant has paid all required fees for this Certification in the amount of \$1638.00. On February 7, 2019, the San Diego Water Board provided public notice of the Project application pursuant to California Code of Regulations, title 23, section 3858 by posting information describing the Project on the San Diego Water Board's web site and providing a period of twenty-one days for public review and comment. No comments were received.

The Applicant proposes to excavate, backfill, and place ungrouted rip rap in an ephemeral stream in order to protect an existing access road, an aboveground water line, and a below ground water line. The ungrouted rip rap will be placed above and below the access road

crossing to prevent scour. The project will permanently impact 0.01 acre and temporarily impact 0.002 acre of ephemeral stream.

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

## TABLE OF CONTENTS

<b>I.</b>	<b>STANDARD CONDITIONS .....</b>	<b>4</b>
<b>II.</b>	<b>GENERAL CONDITIONS.....</b>	<b>4</b>
<b>III.</b>	<b>PROJECT IMPACTS AND COMPENSATORY MITIGATION .....</b>	<b>7</b>
<b>IV.</b>	<b>MONITORING AND REPORTING REQUIREMENTS.....</b>	<b>9</b>
<b>V.</b>	<b>NOTIFICATION REQUIREMENTS .....</b>	<b>11</b>
<b>VI.</b>	<b>CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE .....</b>	<b>12</b>
<b>VII.</b>	<b>SAN DIEGO WATER BOARD CONTACT PERSON.....</b>	<b>12</b>
<b>VIII.</b>	<b>WATER QUALITY CERTIFICATION .....</b>	<b>13</b>

### Attachments:

1. Definitions
2. Project Figures and Plans

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

## I. STANDARD CONDITIONS

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

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

## II. GENERAL CONDITIONS

- A. **Term of Certification.** Water Quality Certification No. R9-2019-0102 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 U.S.C. §1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which

the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

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

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

3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and
  4. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance, or as otherwise authorized by the Clean Water Act or Water Code, any substances or parameters at any location.
- I. **Enforcement Notification.** In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
- J. **Certification Actions.** This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:
1. Violation of any term or condition of this Certification;
  2. Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of the unnamed tributary to La Posta Creek, the unnamed tributary to the San Dieguito River, or their tributaries;
  3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
  4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
  5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.
- The filing of a request by the Applicant for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Certification condition.
- K. **Duty to Provide Information.** The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.
- L. **Property Rights.** This Certification does not convey any property rights of any sort, or any exclusive privilege.

M. **Petitions.** Any person aggrieved by this action of the San Diego Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with the California Code of Regulations, title 23, sections 3867 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Certification. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: [http://www.waterboards.ca.gov/public\\_notices/petitions/water\\_quality](http://www.waterboards.ca.gov/public_notices/petitions/water_quality) or will be provided upon request.

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

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

### IV. PROJECT IMPACTS AND COMPENSATORY MITIGATION

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

	Impacts (acres)	Impacts (linear ft.)	Mitigation for Impacts (acres)	Mitigation Ratio (area mitigated :area impacted)	Mitigation for Impacts (linear ft.)	Mitigation Ratio (linear feet mitigated :linear feet impacted)
<b>Permanent Impacts</b>						
Streambed	0.01 <sup>1</sup>	101 <sup>1</sup>	0.02 Re-establishment <sup>2</sup>	2:1	N/A <sup>3</sup>	N/A <sup>3</sup>
<b>Temporary Impacts<sup>4</sup></b>						
Streambed	0.002	2	N/A	N/A	N/A	N/A

N/A – Not applicable

1. Permanent impacts associated from grading and placement of riprap into ephemeral stream.
2. Project compensatory mitigation re-establishment credits will be purchased from the San Luis Rey Mitigation Bank, Oceanside, CA in the form of “Re-established River: Wetland Waters of the U.S./State” credits.
3. Compensatory mitigation is being provided in a contiguous area at the San Luis Rey Mitigation Bank (approximately 55.8 acres); therefore, compensatory mitigation for linear feet is not being calculated on a project by project basis.
4. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native species.

**B. Mitigation Credit Purchase.** Prior to the start of construction, the Applicant must provide documentation to the San Diego Water Board verifying the purchase of at least 0.02 acre of credit applicable to the establishment and/or re-establishment of wetland waters of the U.S. and/or State from the San Luis Rey Mitigation Bank. The use of an alternate mitigation bank to provide required compensatory mitigation must be approved by the San Diego Water Board before the credits are secured and is subject to the following conditions:

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

**C. Temporary Project Impact Areas.** The Applicant must restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge of pollutants to waters of the United States and/or State. Restoration must include grading of disturbed areas to pre-project contours and re-

vegetation with native species. The Applicant must implement all necessary BMPs to control erosion and runoff from areas associated with the Project.

## V. MONITORING AND REPORTING REQUIREMENTS

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

- D. Electronic Document Submittal.** The Applicant must submit all reports and information required under this Certification in electronic format via e-mail to [SanDiego@waterboards.ca.gov](mailto:SanDiego@waterboards.ca.gov). Documents over 50 megabytes will not be accepted via e-mail and must be placed on a disc and delivered to:

California Regional Water Quality Control Board  
San Diego Region  
Attn: 401 Certification No. R9-2019-0102:852687:ngergans  
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. R9-2019-0102:852687:ngergans

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

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

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

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

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

## VI. NOTIFICATION REQUIREMENTS

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

comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the San Diego Water Board **within 10 days of the transfer date.**

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

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

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

## VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The Ramona Municipal Water District is the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000, et seq.) section 21067, and CEQA Guidelines (California Code of Regulations, title 14, section 15000 et seq.) section 15367, and has determined that the Project is categorically exempt because the Project consists of maintaining an existing structure and has the same substantially the same purpose and capacity as the existing facility.<sup>1</sup>
- B. The San Diego Water Board will file a Notice of Determination in accordance with CEQA Guidelines section 15096 subdivision(i).

## VIII. SAN DIEGO WATER BOARD CONTACT PERSON

Nicole Gergans, Environmental Scientist  
California Regional Water Quality Control Board, San Diego Region  
2375 Northside Drive, Suite 100  
San Diego, California 92108  
Telephone: 619-521-3969  
Email: [nicole.gergans@waterboards.ca.gov](mailto:nicole.gergans@waterboards.ca.gov)

---

<sup>1</sup> 14 CCR section 15301 and 15302

## IX. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Ramona Pipeline Erosion Repair Project** (Certification No. R9-2019-0102) 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. R9-2019-0102 issued on April 8, 2019.

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

8 April 2019  
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.

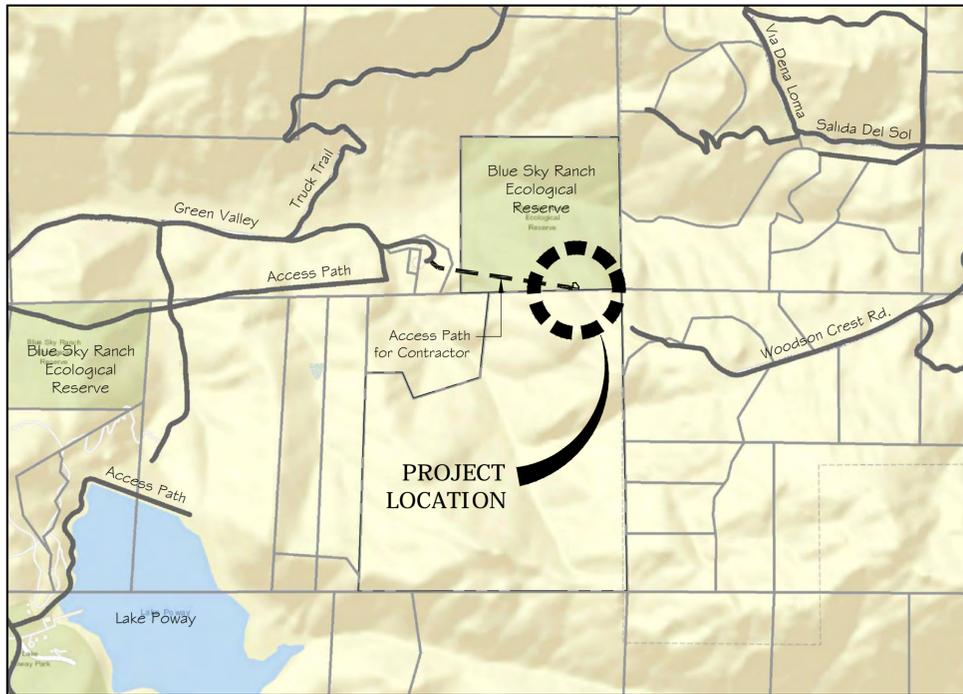
**Water quality objectives and other appropriate requirements of state law** – means the water quality objectives and beneficial uses as specified in the appropriate water quality control plan(s); the applicable provisions of sections 301, 302, 303, 306, and 307 of the Clean Water Act; and any other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

Ramona Municipal Water District  
Ramona Pipeline Erosion Repair Project  
Certification No. R9-2019-0102

**ATTACHMENT 2  
PROJECT FIGURES AND PLANS**

- 1) Ramona Pipeline Access Road Erosion Repair**
- 2) Figure 1 – Jurisdictional Impacts Map**
- 3) Figure 4 – Biological Resources Map**

# PLANS FOR THE IMPROVEMENT OF RAMONA PIPELINE ACCESS ROAD EROSION REPAIR



**LOCATION MAP**  
N.T.S.

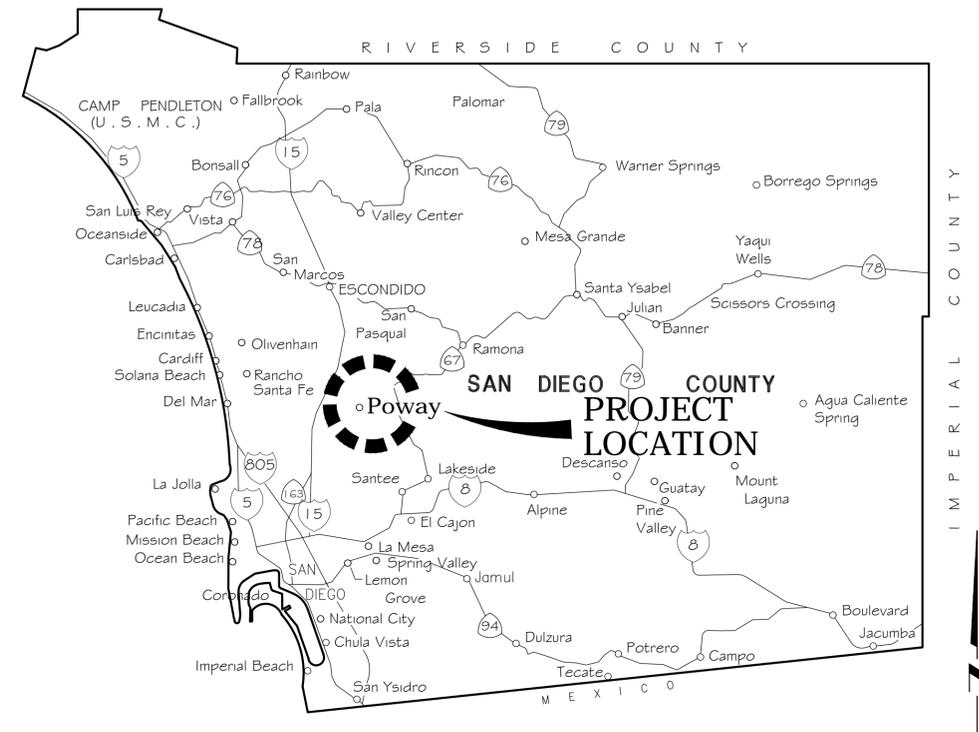


**RMWD BOARD OF DIRECTORS**

- Jim Robinson - Division IV - President
- Jim Hickle - Division II - Vice President
- Bryan Wadlington - Division V - Secretary
- Jeff Lawler - Division I - Treasurer
- Thomas Ace - Division III - Director

**RMWD GENERAL MANAGER**

David Barnum



**VICINITY MAP**  
N.T.S.

**DECLARATION OF RESPONSIBLE CHARGE**

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

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE RAMONA MUNICIPAL WATER DISTRICT IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

**JULY/31/2018**

JONIS SMITH, PE      R.C.E. 58654      DATE  
PRINCIPAL ENGINEER      EXPIRES 12/31/2018

**Underground Service Alert**  
Call: TOLL FREE  
1-800  
227-2600  
**TWO WORKING DAYS BEFORE YOU DIG**

**90% PROGRESS SET  
NOT FOR CONSTRUCTION**

SCALE:  
AS SHOWN  
LINE IS 2 INCHES  
AT FULL SIZE  
IF NOT 2" - SCALE ACCORDINGLY

**DUDEK**  
27372 Calle Arroyo  
San Juan Capistrano, CA 92675  
Tel (949) 450-2525 Fax (949) 450-2626

REVISIONS					
NO.	DESCRIPTION	DUDEK APPROVAL	DATE	RMWD APPROVAL	DATE

BENCHMARK:  
DESCRIPTION: --  
LOCATION: REFERENCE STATION (CORS) RAAP (RAMONA AIRPORT) WHICH HAD A GROUND ELEVATION OF 1405.77 FEET (NAVD 88) USING THE 2012B GEOID HEIGHT OF THE 2011 EPOCH.  
RECORD FROM: --  
ELEVATION: 1405.77 FEET

SHEET <b>1</b>	RAMONA MUNICIPAL WATER DISTRICT	<b>5</b> SHEETS
PLANS FOR THE IMPROVEMENT OF <b>RAMONA PIPELINE ACCESS ROAD                  EROSION REPAIR</b>		
<b>TITLE SHEET, LOCATION MAP                  AND VICINITY MAP</b>		
RECOMMENDED FOR APPROVAL <b>JOE LOMELI</b> RMWD WATER OPERATIONS MANAGER	APPROVED BY <b>D. MICHAEL METTS</b> DISTRICT ENGINEER RCE	
ENGINEER OF WORK <b>J. SMITH</b> ENGINEER RCE	RMWD PROJECT NO. <b>51940</b>	RMWD DWG. NO. <b>51940 - dp06 - 01</b>

P:\101-Engineering\Ramona\_MWD\7039-0049\_Ramona\_Pipeline\_Erosion\_Repair\CAD\Improvement\_Plans\Design\_2 (Slip) (Rip) (Rip)\02\_7039-0049\_SHT\_1.dwg -- Sep 25, 2018, 10:17am

**GENERAL NOTES**

- APPROVAL OF THESE PLANS BY RMWD IS VALID FOR A PERIOD OF TWO YEARS FROM THE DATE WHICH THE DISTRICT SIGNS THE PLANS. AFTER TWO YEARS, RESUBMITTAL IS REQUIRED.
- NOT USED
- ADDITIONAL FACILITIES AND CONSTRUCTION THAT IS DETERMINED NECESSARY IN THE COURSE OF CONSTRUCTION SHALL BE PROVIDED BY THE DEVELOPER AT ITS OWN EXPENSE.
- THE CONTRACTOR SHALL CONFORM TO LABOR CODE SECTION 6205 BY SUBMITTING A DETAILED PLAN SHOWING THE DESIGN OF SHORING, BRACING, SLOPING OR OTHER PROVISIONS TO BE MADE FOR WORK PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH OR TRENCHES OR DURING THE PIPE INSTALLATION THEREIN. THIS PLAN MUST BE PREPARED FOR ALL TRENCHES FIVE FEET OR MORE IN DEPTH AND APPROVED BY THE OWNER PRIOR TO EXCAVATION. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS ESTABLISHED BY THE CONSTRUCTION SAFETY ORDERS, THE PLAN SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER OR STRUCTURAL ENGINEER AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO PROVIDE CONSTRUCTION STAKING AND THREE (3) SETS OF CUT SHEETS TO THE INSPECTOR 24 HOURS PRIOR TO EXCAVATING.
- NOT USED
- NOT USED
- NO FIELD CHANGES OR REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE RMWD DISTRICT ENGINEER AND ENGINEER OF WORK.
- APPROVAL OF THIS PLAN BY R.M.W.D. DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF, OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND WATER, SEWER, OR UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT.
- CONTRACTOR TO LOCATE ALL EXISTING UNDERGROUND UTILITIES AND NOTIFY THE DISTRICT AT LEAST 5 WORKING DAYS AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- CONTRACTOR TO MEET INSPECTOR BEFORE STARTING WORK, GIVE 72 HOUR NOTICE.
- CONTRACTOR SHALL KEEP A SET OF REDLINE AS-BUILTS ON THE SITE AT ALL TIMES AND UPDATE DAILY.
- CONTRACTOR SHALL SUBMIT THE REDLINE AS-BUILTS TO THE ENGINEER OF WORK ONCE THE PROJECT HAS BEEN COMPLETED.
- ENGINEER OF WORK TO PROVIDE AS-BUILT PLANS (MYLAR AND ELECTRONIC) TO THE DISTRICT UPON COMPLETION OF THE PROJECT.
- CONTRACTOR TO NOTIFY UNDERGROUND SERVICE ALERT AT 1-800-422-4133. CALL A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATION.
- CONTRACTOR TO OBTAIN ALL PERMITS.
- CONTRACTOR TO PROVIDE AND INSTALL ALL MATERIAL, WHICH SHALL BE NEW.
- THE CONTRACTOR SHALL AND HEREBY DOES GUARANTEE ALL WORK TO BE FREE OF DEFECTS IN WORKMANSHIP AND/OR MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE DATE OF NOTICE OF COMPLETION FILED BY THE DISTRICT AND SHALL REPAIR OR REPLACE ANY OR ALL SUCH WORK, TOGETHER WITH ANY OTHER WORK WHICH MAY BE IMPACTED AT NO COST TO THE DISTRICT.

- NOT USED.
- NOT USED.
- SOILS REPORTS SHALL BE SUBMITTED TO THE ENGINEER OF WORK AND THE DISTRICT BY A QUALIFIED SOILS ENGINEER WHICH CERTIFIES THAT TRENCH BACK FILL WAS COMPACTED IN ACCORDANCE WITH DISTRICT SPECIFICATIONS OR ONSITE EARTHWORK SPECIFICATIONS, WHICHEVER IS MORE RESTRICTIVE.
- NOT USED.
- RELATIVE COMPACTION AROUND FACILITIES SHALL CONFORM TO STANDARD SPECIFICATION SECTION 02223.

**ABBREVIATIONS**

ABN'D	ABANDONED	LWL	LOW WATER LEVEL
AC	ASPHALT CONCRETE	MAX	MAXIMUM
AP	ANGLE POINT	MFG	MANUFACTURER
BW/BOW	BOTTOM OF WALL	MIN	MINIMUM
CL	CLASS, CENTERLINE	ML	MIXED LIQUOR
CLR	CLEAR	MJ	MECHANICAL JOINT
CO	CLEANOUT	NO	NUMBER
CONC	CONCRETE	NPT	NATIONAL PIPE THREAD
CONT	CONTINUATION	NG	NATURAL GAS
CP	CONTROL PANEL	PE	PLAIN END,
DIA, Ø	DIAMETER		POLYETHYLENE
DIP	DUCTILE IRON PIPE	P.I.P.	PROTECT-IN-PLACE
DWG	DRAWING	PO	PUSH ON
EA	EACH	PP	POWER POLE
E/ELEC	ELECTRICAL	PVC	POLYVINYL CHLORIDE
EL/ELEV	ELEVATION	RAS	RETURN ACTIVATED
EV	ELECTRIC VAULT		SLUDGE
EW	EACH WAY	REQ'D	REQUIRED
EX, EXIST.	EXISTING	SC	SCUM
FG	FINISH GRADE	SCH	SCHEDULE
FL	FLOWLINE	SHT	SHEET
FRP	FIBERGLASS REINFORCED	SPECS	SPECIFICATIONS
	PLASTIC	SQ	SQUARE
FT	FEET	SS/SST	STAINLESS STEEL
GALV	GALVANIZED	STL	STEEL
GS	GALVANIZED STEEL	TC	TOP OF CURB
HORIZ	HORIZONTAL	THK	THICK
HWL	HIGH WATER LEVEL	TW/TOW	TOP OF WALL
IE	INVERT ELEVATION	TOP	TOP OF PIPE
INF	INFLUENT	TRN	TRANSFORMER
		TYP	TYPICAL
		UD	UNDERDRAIN
		UG	UNDERGROUND
		UON	UNLESS OTHERWISE
			NOTED
		VAR	VARIES
		VERT	VERTICAL
		W/WTR	WATER
		WAS	WASTE ACTIVATED
			SLUDGE
		WS	WATER SURFACE
		W/	WITH

**LEGEND**

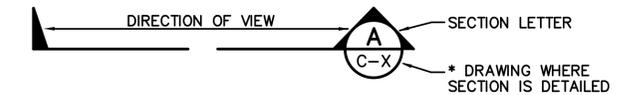
SYMBOL	STANDARD DRAWING	DESCRIPTION
-----	N/A	EXISTING PARCELS
----- S -----	N/A	EXISTING SEWER MAIN
----- W -----	N/A	EXISTING POTABLE WATER MAIN
----- G -----	N/A	EXISTING GAS
----- T -----	N/A	EXISTING TELEPHONE
----- E -----	N/A	EXISTING ELECTRICAL
⊙-----	N/A	EXISTING SEWER LATERAL
⊕-----	N/A	EXIST POTABLE WATER LATERAL
○-----	N/A	EXISTING MANHOLE FOR SEWER MAINS
-----		CIPP LINING OR WATER REPLACEMENT
-----		WATER REPLACEMENT (AS SHOWN IN "C" DRAWINGS)

GRADING QUANTITY	
LIGHT CLASS ROCK	360 CY
No. 2 ROCK	25 CY
SITE SOIL & UNCLASSIFIED FILL MATERIAL	325 CY

**DISCIPLINE CODE**

- T TITLE
- G GENERAL
- D DEMOLITION
- C CIVIL
- T TRAFFIC CONTROL

**CROSS REFERENCE SYSTEM**



**DRAWING INDEX**

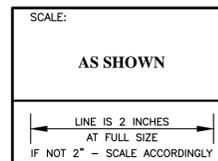
SHEET NO.	DWG NO.	DESCRIPTION
1	T-1	TITLE SHEET, LOCATION AND VICINITY MAP
2	G-1	DRAWING INDEX, SYMBOLS AND ABBREVIATIONS
3	C-1	EXISTING CONDITION, DEMOLITION AND HORIZONTAL CONTROL PLAN
4	C-2	GRADING PLAN
5	C-3	SECTION

**Underground Service Alert**

Call: TOLL FREE  
1-800-227-2600

**TWO WORKING DAYS BEFORE YOU DIG**

**90% PROGRESS SET**  
NOT FOR CONSTRUCTION



**DUDEK**

27372 Calle Arroyo  
San Juan Capistrano, CA 92675  
Tel (949) 450-2525 Fax (949) 450-2626

REVISIONS					
NO.	DESCRIPTION	DUDEK APPROVAL	DATE	RMWD APPROVAL	DATE

BENCHMARK:

DESCRIPTION: --

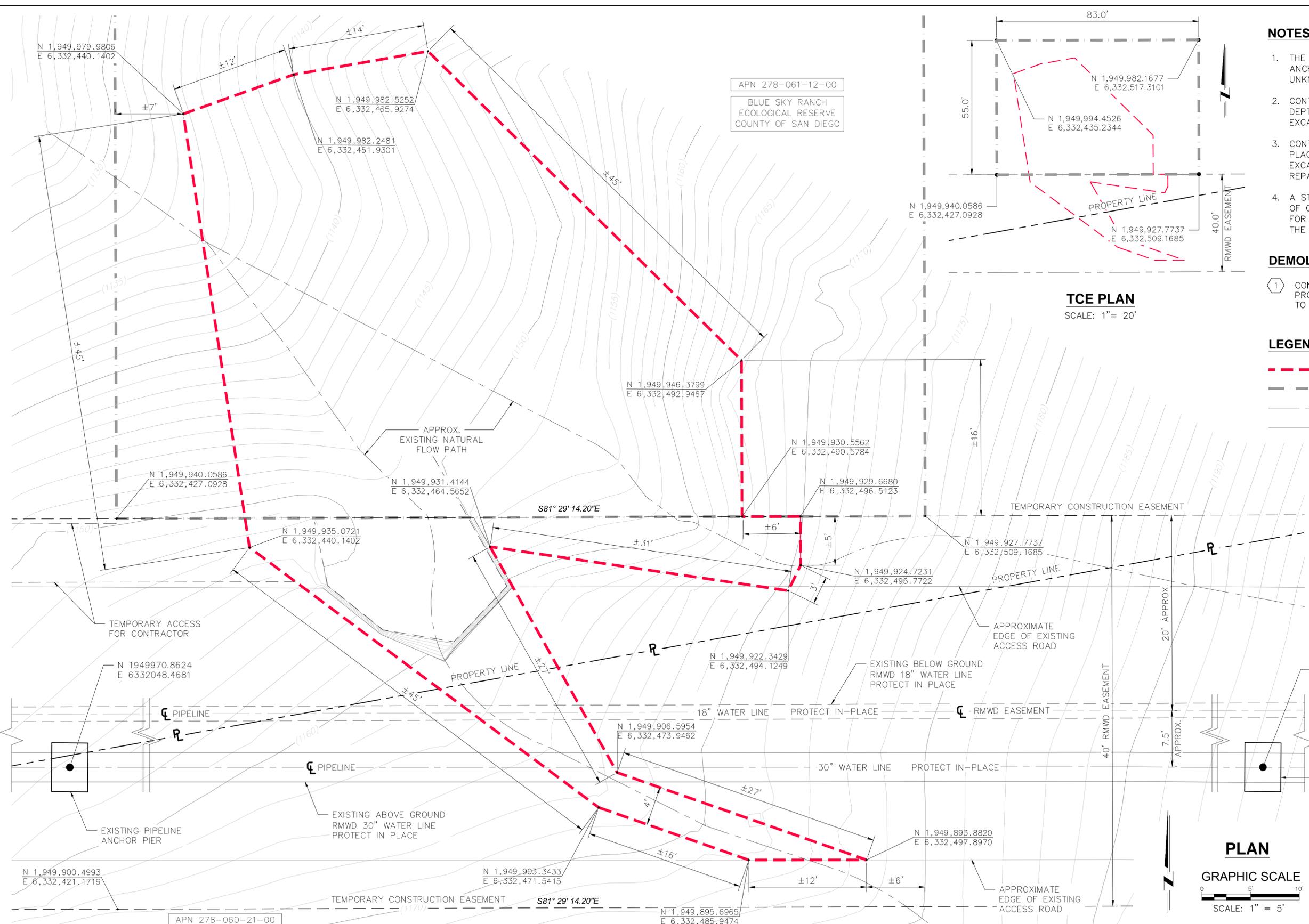
LOCATION: REFERENCE STATION (CORS) RAAP (RAMONA AIRPORT) WHICH HAD A GROUND ELEVATION OF 1405.77 FEET (NAVD 88) USING THE 2012B GEOID HEIGHT OF THE 2011 EPOCH.

RECORD FROM: --

ELEVATION: 1405.77 FEET

SHEET <b>2</b>	RAMONA MUNICIPAL WATER DISTRICT	<b>5</b> SHEETS
PLANS FOR THE IMPROVEMENT OF <b>RAMONA PIPELINE ACCESS ROAD</b> EROSION REPAIR		
<b>DRAWING INDEX, SYMBOLS AND ABBREVIATIONS</b>		
RECOMMENDED FOR APPROVAL <b>JOE LOMELI</b> RMWD WATER OPERATIONS MANAGER	APPROVED BY <b>D. MICHAEL METTS</b> DISTRICT ENGINEER RCE	
ENGINEER OF WORK <b>J. SMITH</b> ENGINEER RCE	RMWD PROJECT NO. 51940	RMWD DWG. NO. 51940 - dp06 - 02

P:\101\_Engr\Projects\Ramona\_MWD\7039\_0049\_Ramona\_Pipeline\_Erosion\_Report\CAD\Improvement\_Plans\Design\_2\_(Sloped\_RipRap)\LT\_D2\_7039\_0049\_SHT\_3.dwg -- Sep 28, 2018, 2:14pm



**NOTES:**

1. THE LOCATION OF EXISTING UTILITIES AND PIPELINE ANCHOR PIERS ARE APPROXIMATE AND DEPTH IS UNKNOWN.
2. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION.
3. CONTRACTOR SHALL TAKE CARE AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED DURING EXCAVATION. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.
4. A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA SHALL PREPARE LOAD CALCULATIONS FOR EQUIPMENT AND CONSTRUCTION ACTIVITIES OVER THE EXISTING 18" WATER LINE.

**DEMOLITION NOTES:**

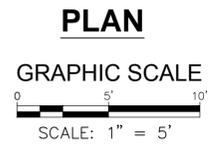
1. CONTRACTOR SHALL CLEAR AND GRUB WITHIN PROJECT LIMITS OF WORK ONLY AS NECESSARY TO CONSTRUCT WITHIN THE LIMIT OF WORK.

**LEGEND:**

- LIMIT OF WORK
- - - - - TEMPORARY CONSTRUCTION EASEMENT
- - - - - EXISTING RMWD EASEMENT
- EDGE OF EXISTING ACCESS ROAD

**TCE PLAN**

SCALE: 1" = 20'



**PLAN**

GRAPHIC SCALE

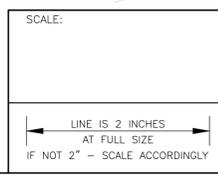
SCALE: 1" = 5'

**Underground Service Alert**

Call: TOLL FREE  
1-800-227-2600  
TWO WORKING DAYS BEFORE YOU DIG

APN 278-060-21-00  
STATE OF CALIFORNIA

**90% PROGRESS SET  
NOT FOR CONSTRUCTION**



**DUDEK**  
27372 Calle Arroyo  
San Juan Capistrano, CA 92675  
Tel (949) 450-2525 Fax (949) 450-2626

REVISIONS					
NO.	DESCRIPTION	DUDEK APPROVAL	DATE	RMWD APPROVAL	DATE

**BENCHMARK:**  
DESCRIPTION: --  
LOCATION: REFERENCE STATION (CORS) RAAP (RAMONA AIRPORT) WHICH HAD A GROUND ELEVATION OF 1405.77 FEET (NAVD 88) USING THE 2012B GEOID HEIGHT OF THE 2011 EPOCH.  
RECORD FROM: --  
ELEVATION: 1405.77 FEET

SHEET <b>3</b>	<b>RAMONA MUNICIPAL WATER DISTRICT</b>	SHEETS <b>5</b>
<b>PLANS FOR THE IMPROVEMENT OF RAMONA PIPELINE ACCESS ROAD EROSION REPAIR EXISTING CONDITION, DEMOLITION AND HORIZONTAL CONTROL PLAN</b>		
RECOMMENDED FOR APPROVAL <b>JOE LOMELI</b> RMWD WATER OPERATIONS MANAGER	APPROVED BY <b>D. MICHAEL METTS</b> DISTRICT ENGINEER RCE	
ENGINEER OF WORK <b>J. SMITH</b> ENGINEER RCE	RMWD PROJECT NO. <b>51940</b>	RMWD DWG. NO. <b>51940 - dp06 - 03</b>

**C-1**

**NOTES:**

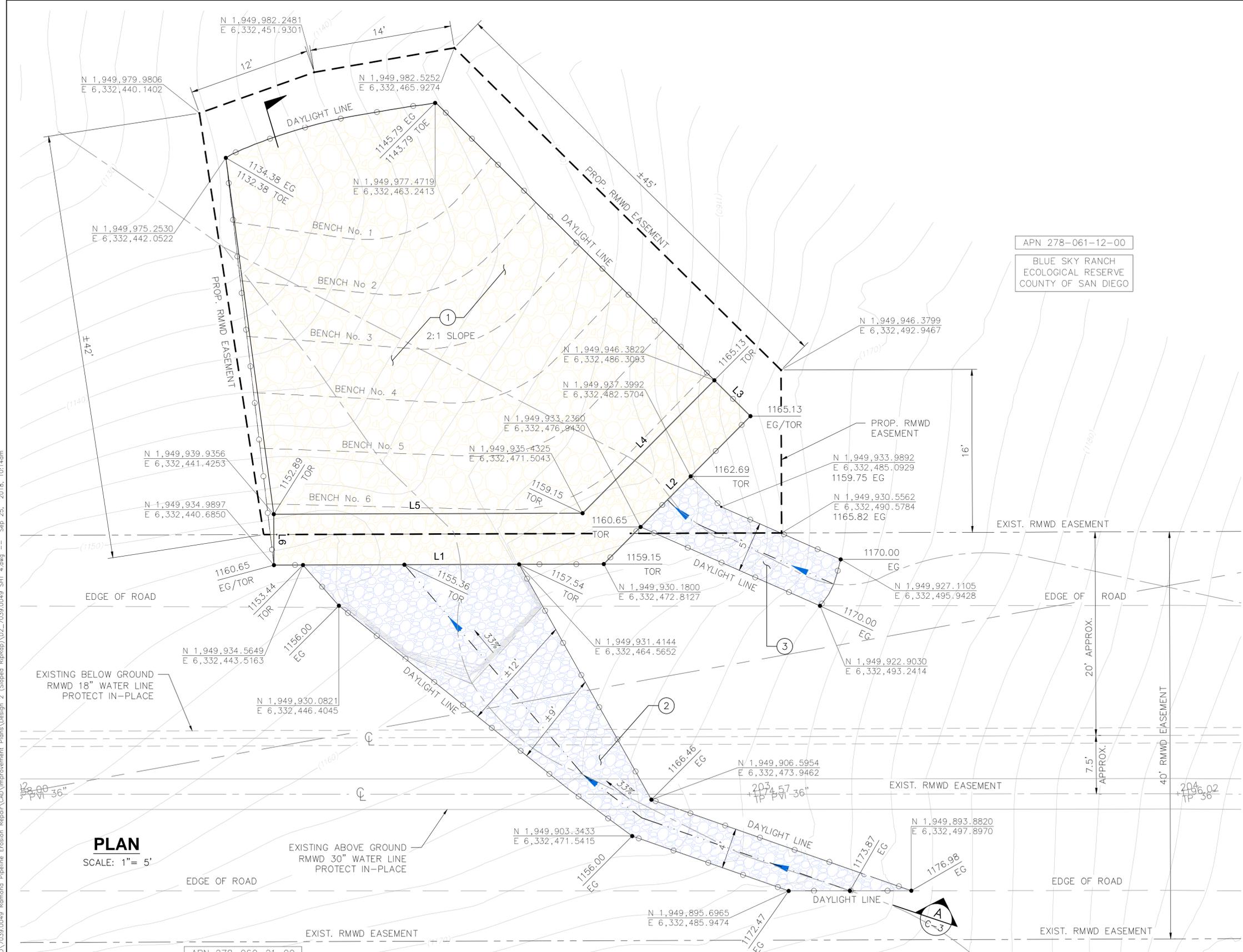
1. THE LOCATION OF EXISTING UTILITIES AND PIPELINE ANCHOR PIERS ARE APPROXIMATE AND DEPTH IS UNKNOWN.
2. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION.
3. CONTRACTOR SHALL TAKE CARE AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED DURING EXCAVATION. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

**CONSTRUCTION NOTES:**

- ① FURNISH AND INSTALL FACING ROCK RIP-RAP UNDERLAIN WITH MIRAFI 1100N GEOTEXTILE FABRIC PER PLAN, CALTRANS METHOD A PLACEMENT, AND TYPICAL SECTION A ON SHEET 5.
- ② FURNISH AND INSTALL No. 2 ROCK RIP-RAP UNDERLAIN WITH MIRAFI 1100N GEOTEXTILE FABRIC PER PLAN, CALTRANS METHOD A PLACEMENT, AND TYPICAL SECTION A ON SHEET 5.
- ③ FURNISH AND INSTALL No. 2 ROCK RIP-RAP UNDERLAIN WITH MIRAFI 1100N GEOTEXTILE FABRIC PER PLAN, CALTRANS METHOD A PLACEMENT, AND GRADATION DATA HEREON.

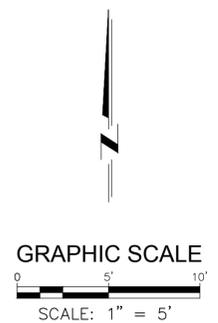
LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L1	32.49'	S81° 29' 14.57"E
L2	20.49'	N53° 30' 48.09"E
L3	5.00'	N36° 29' 11.91"W
L4	18.41'	N53° 30' 48.09"E
L5	30.41'	S81° 29' 14.57"E
L6	5.00'	S8° 30' 45.43"W

GRADATION DATA TABLE FOR ROCK SIZE No. 2	
WEIGHT (lbs)	PERCENT LARGER THAN (%)
75	5
25	25
5	90



APN 278-061-12-00  
 BLUE SKY RANCH  
 ECOLOGICAL RESERVE  
 COUNTY OF SAN DIEGO

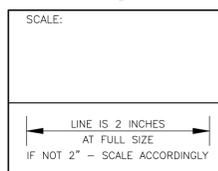
APN 278-060-21-00  
 STATE OF CALIFORNIA



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

**Underground Service Alert**  
 Call: TOLL FREE  
 1-800  
 227-2600  
 TWO WORKING DAYS BEFORE YOU DIG

**90% PROGRESS SET  
 NOT FOR CONSTRUCTION**



**DUDEK**  
 27372 Calle Arroyo  
 San Juan Capistrano, CA 92675  
 Tel (949) 450-2525 Fax (949) 450-2626

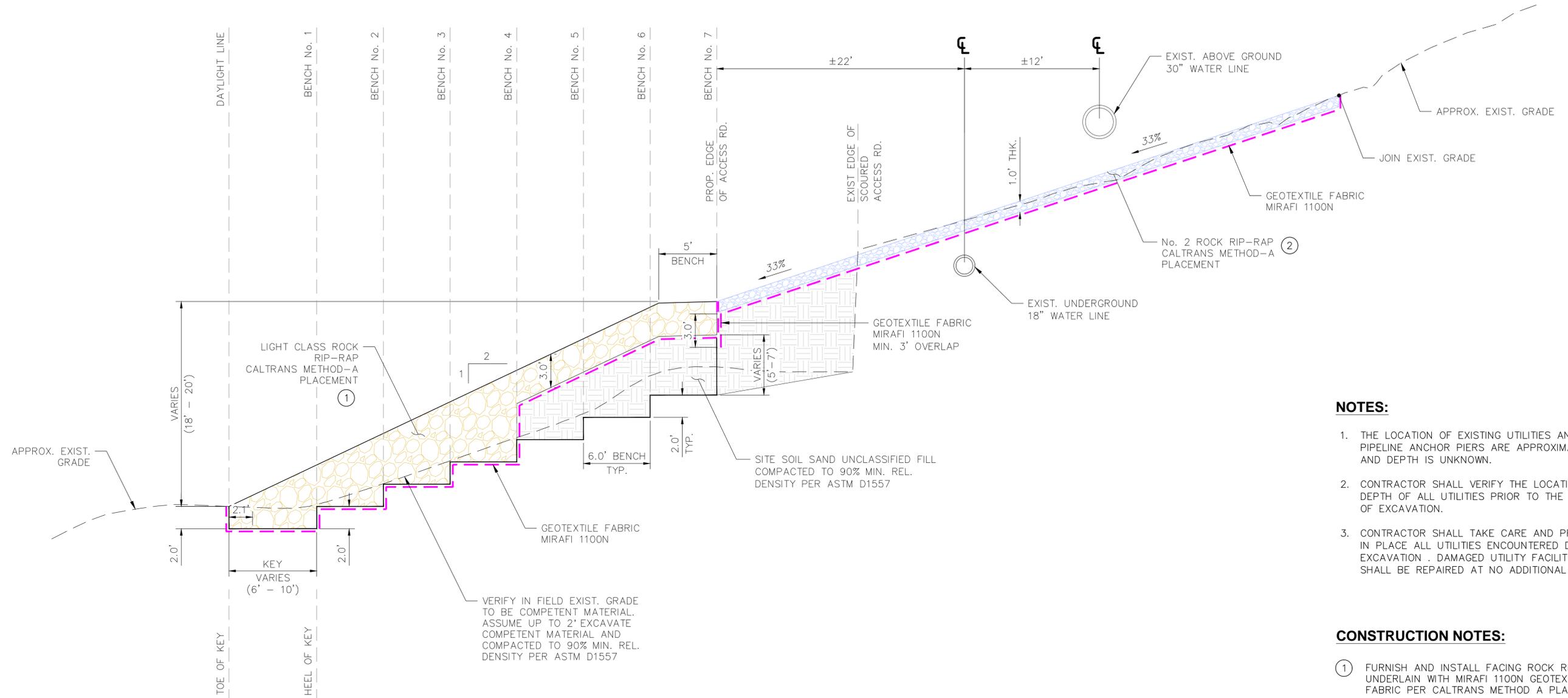
REVISIONS					
NO.	DESCRIPTION	DUDEK APPROVAL	DATE	RMWD APPROVAL	DATE

BENCHMARK: --  
 LOCATION: REFERENCE STATION (CORS) RAAP (RAMONA AIRPORT) WHICH HAD A GROUND ELEVATION OF 1405.77 FEET (NAVD 88) USING THE 2012B GEOID HEIGHT OF THE 2011 EPOCH.  
 RECORD FROM: --  
 ELEVATION: 1405.77 FEET

SHEET <b>4</b>	RAMONA MUNICIPAL WATER DISTRICT	<b>5</b> SHEETS
PLANS FOR THE IMPROVEMENT OF <b>RAMONA PIPELINE ACCESS ROAD                  EROSION REPAIR</b>		
<b>GRADING PLAN</b>		
RECOMMENDED FOR APPROVAL <b>JOE LOMELI</b> RMWD WATER OPERATIONS MANAGER	APPROVED BY <b>D. MICHAEL METTS</b> DISTRICT ENGINEER RCE	
ENGINEER OF WORK <b>J. SMITH</b> ENGINEER RCE	RMWD PROJECT NO. <b>51940</b>	RMWD DWG. NO. <b>51940 - dp06 - 04</b>

P:\101\_Engr\Projects\Ramona\_MWD\7039\_0049\_Ramona\_Pipeline\_Erosion\_Report\CAD\Improvement\_Plans\Design\_2 (Sloped RipRap)\D2\_7039\_0049\_SHT 4.dwg -- Sep 25, 2018, 10:14am

P:\101\Engineering\Ramona\_MWD\7039-0049\_Ramona\_Pipeline\_Erosion\_Repair\CAD\Improvement\_Plans\Design\_2\_(Sloped\_RipRap)\D2\_7039-0049\_SHT\_5.dwg -- Sep 25, 2018, 10:00am



- NOTES:**
1. THE LOCATION OF EXISTING UTILITIES AND PIPELINE ANCHOR PIERS ARE APPROXIMATE AND DEPTH IS UNKNOWN.
  2. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION.
  3. CONTRACTOR SHALL TAKE CARE AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED DURING EXCAVATION. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

- CONSTRUCTION NOTES:**
- ① FURNISH AND INSTALL FACING ROCK RIP-RAP UNDERLAIN WITH MIRAFI 1100N GEOTEXTILE FABRIC PER CALTRANS METHOD A PLACEMENT.
  - ② FURNISH AND INSTALL No. 2 ROCK RIP-RAP UNDERLAIN WITH MIRAFI 1100N GEOTEXTILE FABRIC PER CALTRANS METHOD A PLACEMENT.

**A ROCK FILL SLOPE REPAIR SECTION VIEW**  
SCALE: 1" = 5'

WEIGHT (lbs)	PERCENT LARGER THAN (%)
200	5
75	50
25	90

WEIGHT (lbs)	PERCENT LARGER THAN (%)
75	5
25	25
5	90

**Underground Service Alert**  
 Call: TOLL FREE  
 1-800  
 227-2600  
**TWO WORKING DAYS BEFORE YOU DIG**

**90% PROGRESS SET  
NOT FOR CONSTRUCTION**

SCALE:  
 LINE IS 2 INCHES  
 AT FULL SIZE  
 IF NOT 2" - SCALE ACCORDINGLY

**DUDEK**  
 27372 Calle Arroyo  
 San Juan Capistrano, CA 92675  
 Tel (949) 450-2525 Fax (949) 450-2626

REVISIONS					
NO.	DESCRIPTION	DUDEK APPROVAL	DATE	RWMD APPROVAL	DATE

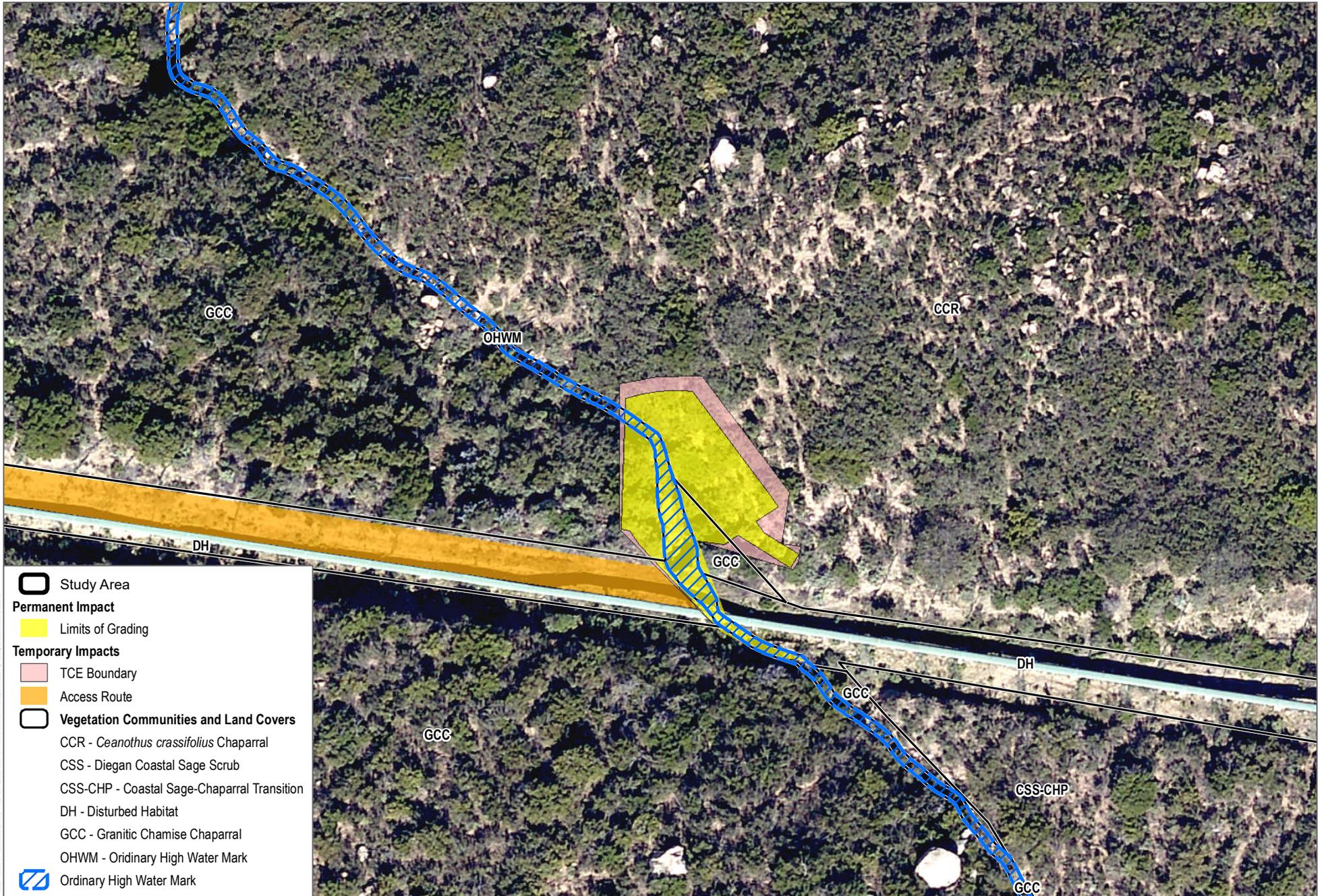
**BENCHMARK:**  
 DESCRIPTION: --  
 LOCATION: REFERENCE STATION (CORS) RAAP (RAMONA AIRPORT) WHICH HAD A GROUND ELEVATION OF 1405.77 FEET (NAVD 88) USING THE 2012B GEOID HEIGHT OF THE 2011 EPOCH.  
 RECORD FROM: --  
 ELEVATION: 1405.77 FEET

SHEET <b>5</b>	RAMONA MUNICIPAL WATER DISTRICT	SHEETS <b>5</b>
<b>PLANS FOR THE IMPROVEMENT OF RAMONA PIPELINE ACCESS ROAD EROSION REPAIR</b>		
<b>SECTION</b>		
RECOMMENDED FOR APPROVAL <b>JOE LOMELI</b> <small>RWMD WATER OPERATIONS MANAGER</small>	APPROVED BY <b>D. MICHAEL METTS</b> <small>DISTRICT ENGINEER RCE</small>	
ENGINEER OF WORK <b>J. SMITH</b> <small>ENGINEER RCE</small>	RWMD PROJECT NO. <b>51940</b>	RWMD DWG. NO. <b>51940 - dp06 - 05</b>

**C-3**



SOURCE: SANGIS 2017



SOURCE: SANGIS 2017

**FIGURE 4**

**Biological Resources Impacts Map**

Conceptual Mitigation Plan for the Ramona Municipal Water District Pipeline Erosion Repair Project