

**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: Rose Creek Bikeway Project
Certification Number R9-2016-0222
WDID: 900003132**

Reg. Meas. ID: 410792
Place ID: 816816
Party ID: 39834
Person ID: 524620

**APPLICANT: San Diego Association of Governments
401 B Street
Suite 800
San Diego, CA 92101**

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 November 14, 2016 was submitted by the San Diego Association of Governments (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 Rose Creek Bikeway Project (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on August 10, 2017. 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-2016-00825-WSZ). The Project is located within the City of San Diego, San Diego County, California at the east end of and north of Garnet Avenue, east of and parallel/on Santa Fe Street, and south of SR-52. The Project center reading is located at latitude 32.820743° and longitude -117.226401°. The Applicant has paid all required application fees for this Certification in the amount of \$12,952.00. On an annual basis, the Applicant shall also pay all active discharge fees and post discharge monitoring fees, as appropriate¹. On August 16, 2017, the San Diego Water Board provided public notice

¹ The Applicant shall pay an annual active discharge fee each fiscal year or portion of a fiscal year during which discharges occur until the regional water board or the State Water Resources Control Board (State Water Board) issues a Notice of Completion of Discharges Letter to the discharger. Dischargers shall 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 regional water board or State Water Board issued a Notice of Completion of Discharges Letter to the discharger, but continued water quality

Certification No. R9-2016-0222

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 improve a 2.1 mile long segment of the Coastal Rail Trail, known as the Rose Creek Bikeway. The 1.3 mile on-street improvements for safety include utilizing existing paved area and improving a two foot wide shoulder on the west side of Santa Fe Street and installation of a two-foot raised concrete median to separate the bikeway from automotive traffic. To obtain the width needed for the bicycle facility and displacement of the southbound vehicle traffic lane, Santa Fe Street would be widened to the east, in sections, by up to three feet wide. The proposed widening would require a retaining wall along an 875-foot section of Rose Creek up to six feet in height. A 0.8 mile off-street portion of the bikeway would be a shared use path, also referred to as a "Class I" facility, consisting of a 10-foot wide concrete path with two-foot shoulders on each side. The off-road portion of the path would extend a distance of approximately 4,000 linear feet. The off-road portion would start just north of the Santa Fe Street Bridge over Rose Creek. At this point, the path would be located on a new bridge that would parallel the existing Santa Fe Street Bridge. The proposed bridge would include one central column in the creek for support. Once across the creek, the path would be located along the eastern bank of Rose Creek on a bench behind existing businesses fronting Santa Fe Street. The bench would be created by a cut along the east edge with a three- to six-foot retaining wall located along the west side. The maximum width of the bench would be 14 feet.

The bikeway would cross under the I-5 freeway bridge. Beneath the bridge, the bikeway would be constructed on a structure adjacent to the base of one of the bents supporting the I-5 Bridge. On the other side of the I-5 bridge, the path would return to a bench cut into the top of the east bank of Rose Creek leading to a service road behind existing businesses. It would cross beneath the Mission Bay Drive bridge over Rose Creek, on a structure similar to the one beneath the I-5 bridge, and connect with an existing Class I bicycle path near the intersection of Mission Bay Drive and Damon Street.

The Project will convert approximately 2.0 acres of pervious surfaces to impervious surfaces. The non-industrial, non-retail, non-housing, and non-automotive use of the new impervious areas will not generate significant post-construction pollutants and post-construction best management practices (BMPs) are not required.

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 treat waste and reduce runoff or other effluents which may be discharged. Compliance with the Certification conditions will help ensure that construction and post-construction discharges from the Project will not cause on-site or off-site downstream erosion, damage to downstream properties, or otherwise damage stream habitats

monitoring or compensatory mitigation monitoring is required. Dischargers shall pay the annual post-discharge monitoring fee each fiscal year until the regional water board or the State Water Board issues a Notice of Project Complete Letter to the discharger. Additional information regarding fees can be found electronically at the following location:
http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/dredgefillcalculator.xlsx

Certification No. R9-2016-0222

in violation of water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan).

Project construction will permanently impact 0.05 acre (161 linear feet) of Stream Channel and 0.12 acre (375 linear feet) of Wetlands as 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.

The Applicant reports that compensatory mitigation for the permanent loss of 0.17 acre of jurisdictional waters will be achieved through the offsite re-establishment and rehabilitation of 0.49 acre of Stream channel and Wetlands at the Barczewski Carmel Valley Mitigation Site located in the Miramar Reservoir hydrologic sub-area (HSA 906.10) at a minimum compensation ratio of 2.88:1 (area mitigated:area impacted). All waters of the United States and/or State receiving temporary discharges of fill material will be restored upon removal of the fill. Additionally, mitigation for discharges of temporary fill material to waters of the United States and/or State (excluding the 0.13 acre of concrete channel which will be mitigated onsite) will be completed by the Applicant through offsite enhancement of 0.56 acre of Stream Channel and Wetlands at the Barczewski Carmel Valley Mitigation Site, at a minimum compensation ratio of 1:1 (area mitigated:area impacted).

Detailed written specifications and work descriptions for the compensatory mitigation project including, but not limited to, the geographic boundaries of the project, timing, sequence, monitoring, maintenance, ecological success performance standards and provisions for long-term management and protection of the mitigation areas are described in the Conceptual Mitigation Plan for Deer Canyon East (also known as the Barczewski Carmel Valley), dated April 2017 (Mitigation Plan). Detailed written specifications for the onsite revegetation of temporarily impacted areas are described in the Conceptual Revegetation Plan for the Rose Creek Bikeway Project dated June 8, 2017 (Revegetation Plan). San Diego Water Board acceptance of the Mitigation Plan and Revegetation Plan applies only to the Project described in this Certification and must not be construed as approval for other current or future projects that are planning to use additional acreage at the site for mitigation. The Mitigation Plan and Revegetation Plan are incorporated in this Certification by reference as if set forth herein. The Mitigation Plan and Revegetation Plan provides for implementation of compensatory mitigation which offsets adverse water quality impacts attributed to the Project in a manner that protects and restores the abundance, types and conditions of aquatic resources and supports their beneficial uses. Implementation of the Mitigation Plan and Revegetation Plan will reduce significant environmental impacts to resources within the San Diego Water Board's purview to a less than significant level. Based on all of these considerations, the Mitigation Plan and Revegetation Plan will adequately compensate for the loss of beneficial uses and habitat within waters of the United States and/or State attributable to the Project.

Additional Project details are provided in Attachments 2 through 5 of this Certification.

Certification No. R9-2016-0222

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	5
II.	GENERAL CONDITIONS	5
III.	CONSTRUCTION BEST MANAGEMENT PRACTICES	8
IV.	POST-CONSTRUCTION BEST MANAGEMENT PRACTICES	10
V.	PROJECT IMPACTS AND COMPENSATORY MITIGATION	10
VI.	MONITORING AND REPORTING REQUIREMENTS	13
VII.	NOTIFICATION REQUIREMENTS	18
VIII.	SAN DIEGO WATER BOARD CONTACT PERSON	20
IX.	WATER QUALITY CERTIFICATION	21

Attachments:

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

Certification No. R9-2016-0222

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. R9-2016-0222 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 USC Title 33, section 1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at: http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/gowdr401regulated_projects.pdf.
- D. **Project Conformance with Application.** All water quality protection measures and BMPs described in the application and supplemental information for water quality certification are incorporated by reference into this Certification as if fully stated herein.

Certification No. R9-2016-0222

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 Plan 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 Plan 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

Certification No. R9-2016-0222

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 stream or its 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 Plan adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

The filing of a request by the Applicant for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Certification condition.

- K. **Duty to Provide Information.** The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.
- L. **Property Rights.** This Certification does not convey any property rights of any sort, or any exclusive privilege.
- M. **Petitions.** Any person aggrieved by this action of the San Diego Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with the California Code of Regulations, title 23, sections 3867 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Certification. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

Certification No. R9-2016-0222

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.

Certification No. R9-2016-0222

- 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.

Certification No. R9-2016-0222

- 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 stream. 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 Waste Discharges From Construction, Remediation, and Permanent Groundwater Extraction Projects to Surface Waters within the San Diego Region Except for San Diego Bay or its successor permit.*

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.
- B. **Storm Drain Inlets.** All storm drain inlet structures within the Project boundaries must be stamped or stenciled (or equivalent) with appropriate language prohibiting non-storm water discharges.

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.
- B. **Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to the unnamed, onsite unvegetated stream within the San Dieguito Watershed must not

Certification No. R9-2016-0222

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:

	Impact s (acres)	Impact s (linear ft.)	Mitigation for Impacts (acres)	Mitigation Ratio (area mitigated :area impacted)	Mitigation for Impacts (linear ft.)	Mitigation Ratio (linear feet mitigate d :linear feet impacted)
Permanent Impacts						
Stream ¹ Channel	0.05	161	0.05 re- establishment and 0.08 rehabilitation	2.6:1	N/A ³	N/A
Wetland ¹	0.12	375	0.12 re- establishment and 0.24 rehabilitation	3:1	N/A	N/A
Temporary Impacts⁵						
Stream Channel	0.33	347	0.20 enhancement ² 0.13 rehabilitation ⁴	1:1	N/A	N/A
Wetland	0.36	368	0.36 enhancement ²	1:1	N/A	N/A

1. Offsite re-establishment and rehabilitation at the Deer Canyon Mitigation Site (Barczewski Carmel Valley).
2. Offsite enhancement at Deer Canyon East Mitigation Site (Barczewski Carmel Valley).
3. Compensatory mitigation is being provided in a contiguous area at the Mitigation Site; therefore, compensatory mitigation for linear feet is not being calculated on a project by project basis.
4. Onsite rehabilitation of concrete channel.
5. All areas of temporary impacts must be restored to pre-project contours and re-vegetated with native species.

C. Compensatory Mitigation Plan Implementation. The Applicant must fully and completely implement the Mitigation Plan and Revegetation Plan; any deviations from, or revisions to, the Mitigation Plan must be pre-approved by the San Diego Water Board.

Certification No. R9-2016-0222

- D. Performance Standards.** Compensatory mitigation required under this Certification shall be considered achieved once it has met the ecological success to the satisfaction of the San Diego Water Board.
- E. Compensatory Mitigation Site Design.** The compensatory mitigation site(s) shall be designed to be self-sustaining once performance standards have been achieved. This includes minimization of active engineering features (e.g., pumps) and appropriate siting to ensure that natural hydrology and landscape context support long-term sustainability in conformance with the following conditions:
1. Most of the channels through the mitigation sites shall be characterized by equilibrium conditions, with no evidence of severe aggradation or degradation;
 2. As viewed along cross-sections, the channel and buffer area(s) shall have a variety of slopes, or elevations, that are characterized by different moisture gradients. Each sub-slope shall contain physical patch types or features that contribute to irregularity in height, edges, or surface and to complex topography overall; and
 3. The mitigation sites shall have a well-developed plant community characterized by a high degree of horizontal and vertical interspersion among plant zones and layers.
- F. 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 in accordance with the Revegetation Plan. 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.
- G. Long-Term Management and Maintenance.** The offsite compensatory mitigation site(s) must be managed, protected, and maintained, in perpetuity, in conformance with the long-term management plan and the final ecological success performance standards identified in the Mitigation Plan. The aquatic habitats, riparian areas, buffers and uplands that comprise the mitigation sites must be protected in perpetuity from land-use and maintenance activities that may threaten water quality or beneficial uses within the mitigation areas in a manner consistent with the following requirements:
1. Any maintenance activities on the mitigation sites that do not contribute to the success of the mitigation sites and enhancement of beneficial uses and ecological functions and services are prohibited;
 2. Maintenance activities must be limited to the removal of trash and debris, removal of exotic plant species, replacement of dead native plant species, and remedial measures deemed necessary for the success of the compensatory mitigation project;

Certification No. R9-2016-0222

3. The Mitigation sites must be maintained, in perpetuity, free of perennial exotic plant species including, but not limited to, pampas grass, giant reed, tamarisk, sweet fennel, tree tobacco, castor bean, and pepper tree. Annual exotic plant species must not occupy more than 5 percent of the mitigation sites; and
4. If at any time a catastrophic natural event (e.g., fire, flood) causes damage(s) to the mitigation sites or other deficiencies in the compensatory mitigation project, the Applicant must take prompt and appropriate action to repair the damage(s) including replanting the affected area(s) and address any other deficiencies. The San Diego Water Board may require additional monitoring by the Applicant to assess how the compensatory mitigation sites or project is responding to a catastrophic natural event.

H. **Timing of Mitigation Sites Construction.** The construction of proposed offsite mitigation must be concurrent with project grading and completed no later than 9 months following the start of Project construction. Delays in implementing mitigation must be compensated for by an increased mitigation implementation of 10% of the cumulative compensatory mitigation for each month of delay.

I. **Mitigation Sites Preservation Mechanism. Within 90 days from the issuance of this Certification,** the Applicant must provide the San Diego Water Board with a draft preservation mechanism (e.g. deed restriction, conservation easement, etc.) that will protect offsite mitigation areas and their buffers in perpetuity. **Within 90 days of the start of Project construction,** the Applicant must submit proof of a completed final preservation mechanism that will protect offsite mitigation areas and their buffers in perpetuity. The conservation easement, deed restriction, or other legal limitation on the offsite mitigation properties must be adequate to demonstrate that the sites will be maintained without future development or encroachment on the sites which could otherwise reduce the functions and values of the sites for the variety of beneficial uses of waters of the United States and/ or State that it supports. The legal limitation must prohibit, without exception, all residential, commercial, industrial, institutional, and transportation development, and any other infrastructure development that would not maintain or enhance the wetland and streambed functions and values of the sites. The preservation mechanism must clearly prohibit activities that would result in soil disturbance or vegetation removal, other than the removal of non-native vegetation. Other infrastructure development to be prohibited includes, but is not limited to, additional utility lines, maintenance roads, and areas of maintained landscaping for recreation.

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.

Certification No. R9-2016-0222

- 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. California Rapid Assessment Method.** California Rapid Assessment Method (CRAM)² monitoring must be performed to assess the current and potential ecological conditions (ecological integrity) of the impact site and proposed compensatory mitigation site(s). These conditions reflect the overall level of ecological function of an aquatic resource. Prior to initiating Project construction, the Applicant shall develop a monitoring plan to implement California Rapid Assessment Method (CRAM) monitoring. The Applicant must conduct a quantitative function-based assessment of the health of streambed habitat to establish pre-project baseline conditions, set CRAM success criteria, and assess the mitigation site(s) progress towards meeting the success criteria. CRAM monitoring must be conducted prior to the start of Project construction authorized under this Certification and annually following construction completion for a period of 5 years or less if approved by the San Diego Water Board. The annual CRAM monitoring results shall be submitted with the Annual Project Progress Report. An evaluation, interpretation, and tabulation of all CRAM assessment data shall be submitted with the Final Project Completion Report.
- F. Geographic Information System Data.** The Applicant must submit Geographic Information System (GIS) shape files of the Project impact sites within 30 days of the start of project construction and GIS shape files of the Project mitigation sites within 30 days of mitigation installation. All impact and mitigation site shape files must be polygons. Two GPS readings (points) must be taken on each line of the polygon and the polygon must have a minimum of 10 points. GIS metadata must also be submitted.
- G. Annual Project Progress Reports.** The Applicant must submit annual Project progress reports describing status of BMP implementation, compensatory mitigation, and compliance with all requirements of this Certification to the San Diego Water Board

² The most recent versions of the California Rapid Assessment Method (CRAM) for Wetlands and additional information regarding CRAM can be accessed at <http://www.cramwetlands.org/>

Certification No. R9-2016-0222

prior to **March 1** of each year following the issuance of this Certification, until the Project has reached completion. The Annual Project Progress Reports must contain compensatory mitigation monitoring information sufficient to demonstrate how the compensatory mitigation project is progressing towards accomplishing its objectives and meeting its performance standards. 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.

2. **Compensatory Mitigation Monitoring Reporting.** Mitigation monitoring information must be submitted as part of the Annual Project Progress Report for a period of not less than five years, sufficient to demonstrate that the compensatory mitigation project has accomplished its objectives and met ecological success performance standards contained in the Mitigation Plan and Revegetation Plan. Following Project implementation, the San Diego Water Board may reduce or waive compensatory mitigation monitoring requirements upon a determination that performance standards have been achieved. Conversely the San Diego Water Board may extend the monitoring period beyond five years upon a determination that the performance standards have not been met or the compensatory mitigation project is not on track to meet them. The Annual Project Progress Report must include the following compensatory mitigation monitoring information:
 - a. Names, qualifications, and affiliations of the persons contributing to the report;
 - b. An evaluation, interpretation, and tabulation of the parameters being monitored, including the results of the Mitigation Plan and Revegetation Plan monitoring program, and all quantitative and qualitative data collected in the field;

Certification No. R9-2016-0222

- c. A description of the following mitigation site(s) characteristics:
 - i. Detritus cover;
 - ii. General topographic complexity;
 - iii. General upstream and downstream habitat and hydrologic connectivity; and
 - iv. Source of hydrology.
 - d. Monitoring data interpretations and conclusions as to how the compensatory mitigation project(s) is progressing towards meeting performance standards and whether the performance standards have been met;
 - e. A description of the progress toward implementing a plan to manage the offsite compensatory mitigation project after performance standards have been achieved to ensure the long term sustainability of the resource in perpetuity, including a discussion of long term financing mechanisms, the party responsible for long term management, and a timetable for future steps;
 - f. Qualitative and quantitative comparisons of current mitigation conditions with pre-construction conditions and previous mitigation monitoring results;
 - g. Stream photo documentation, including all areas of permanent and temporary impact, prior to and after mitigation site 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 Geographic Positioning System (GPS) coordinates for each of the photo points referenced;
 - h. A qualitative comparison to adjacent preserved streambed areas;
 - i. The results of the California Rapid Assessment Method (CRAM) monitoring;
 - j. As-built drawings of the compensatory mitigation project site(s), no bigger than 11"X17"; and
 - k. A survey report documenting boundaries of the compensatory mitigation site(s).
- H. 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";

Certification No. R9-2016-0222

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
 6. An evaluation, interpretation, and tabulation of all California Rapid Assessment Method collected throughout the term of Project construction in accordance with section VI.E and VII.E of this Certification.
- I. **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.
 - J. **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. R9-2016-0222:816816:mporter
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. R9-2016-0222:816816:mporter.

- K. **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.

Certification No. R9-2016-0222

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.

L. **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

Certification No. R9-2016-0222

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 or the Compensatory Mitigation 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.**
 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

Certification No. R9-2016-0222

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

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

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

VIII. SAN DIEGO WATER BOARD CONTACT PERSON

Mike Porter, Engineering Geologist
Telephone: 619-521-3967
Email: mike.porter@waterboards.ca.gov

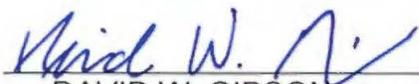
Certification No. R9-2016-0222

IX. WATER QUALITY CERTIFICATION

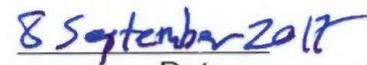
I hereby certify that the proposed discharge from the **Rose Creek Bikeway Project** (Certification No. R9-2016-0222) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plan"), 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. R9-2016-0222 issued on September 8, 2017.



DAVID W. GIBSON
Executive Officer
San Diego Water Board



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)].

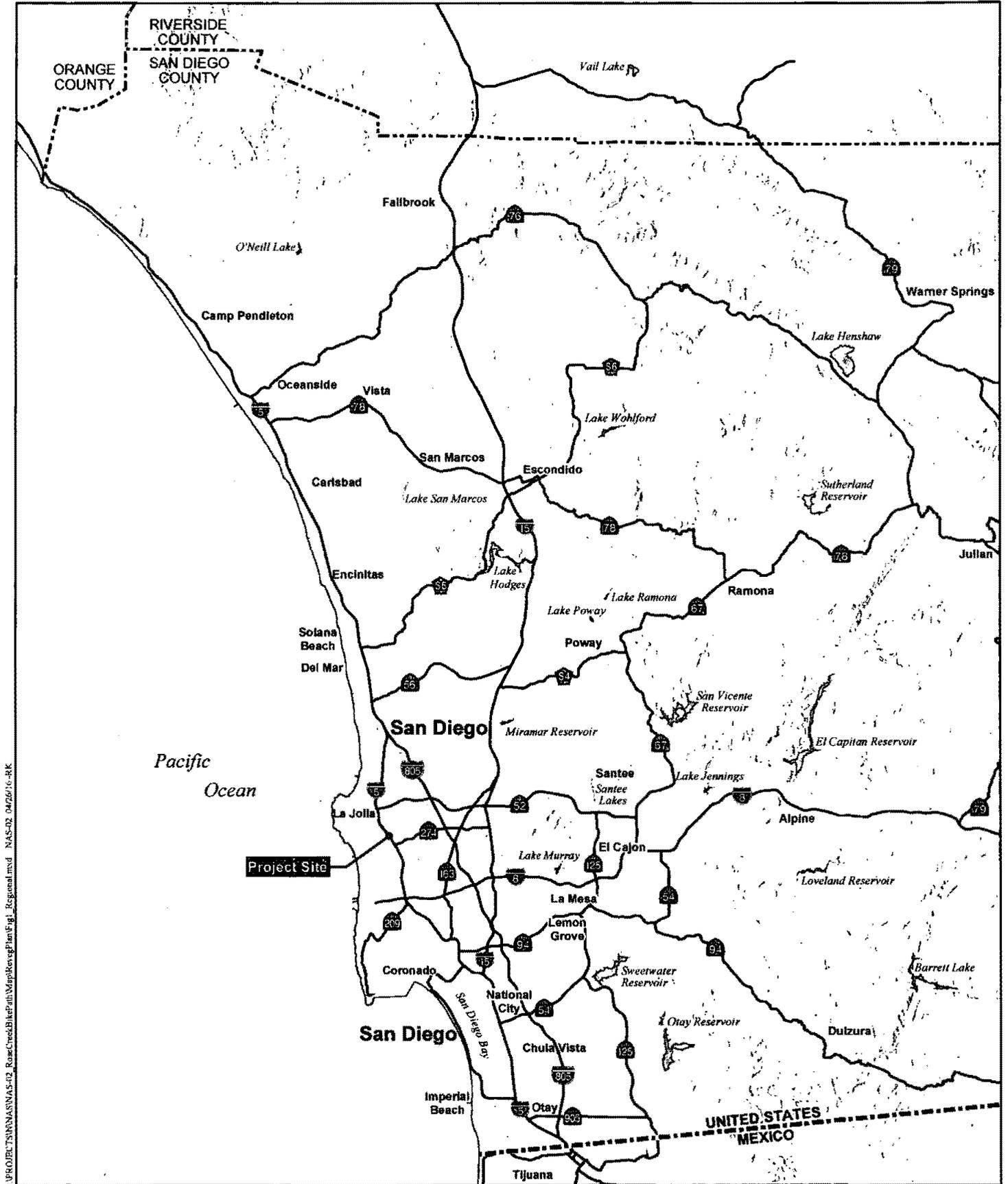
San Diego Association of Governments
Rose Creek Bikeway Project
Certification No. R9-2016-0222

**ATTACHMENT 2
PROJECT LOCATION MAPS**

Figure 1 – Regional Location Map Rose Creek Bikeway Project

Figure 2 – Project Vicinity Map Aerial Photograph Rose Creek Bikeway Project

Figure 3 – Project Vicinity Map (USGS Topography) Rose Creek Bikeway Project

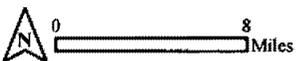


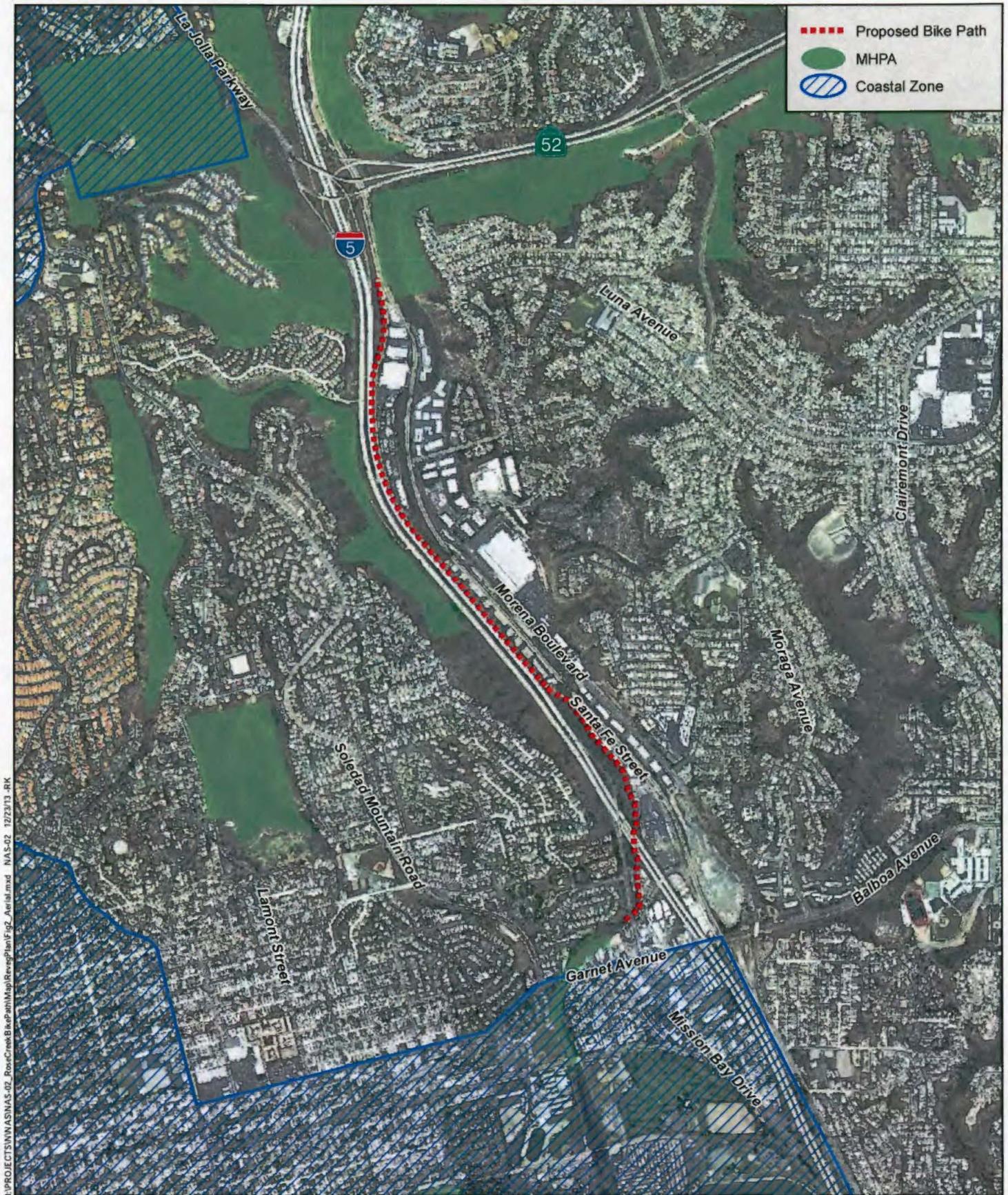
I:\PROJECTS\IN\NAS-02_RoseCreekBikeway\Map\Kev\fig1_Regional.mxd NAS-02_04/26/16-RK

Regional Location Map

ROSE CREEK BIKEWAY PROJECT

Figure 1





I:\PROJECTS\W\NAS\NAS-02_RoseCreekBikePath\Map\Rev\fig_02_Aerial.mxd NAS-02 12/23/13 -BK

Project Vicinity Map (Aerial Photograph)

ROSE CREEK BIKEWAY PROJECT

Figure 2



Project Vicinity Map (USGS Topography)

ROSE CREEK BIKEWAY PROJECT

Figure 3



San Diego Association of Governments
Rose Creek Bikeway Project
Certification No. R9-2016-0222

**ATTACHMENT 3
PROJECT IMPACTS AND PLANS**

Figure 4a – Vegetation and Sensitive Resources/Impacts Rose Creek Bikeway

Figure 4b – Vegetation and Sensitive Resources/Impacts Rose Creek Bikeway

Figure 4c – Vegetation and Sensitive Resources/Impacts Rose Creek Bikeway

Figure 9a – Waters of the U.S./Impacts Rose Creek Bikeway

Figure 9b – Waters of the U.S./Impacts Rose Creek Bikeway

Figure 9c – Waters of the U.S./Impacts Rose Creek Bikeway

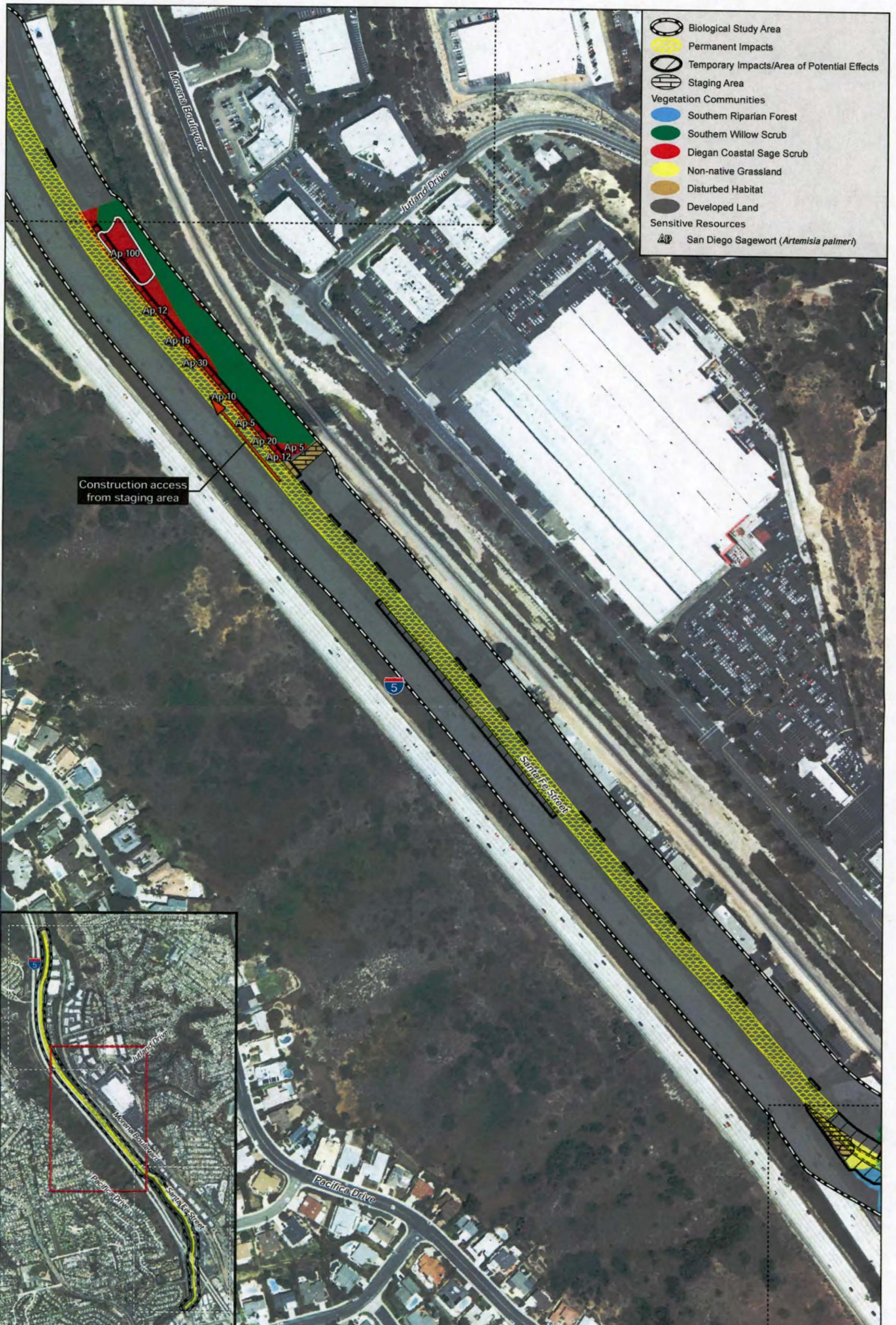
Sheets 39517-1-D to 39517-12-D:

Coastal Rail Trail – Rose Creek Bikeway Rose Creek Alignment (Grading and
Construction Plans)



Vegetation and Sensitive Resources/Impacts

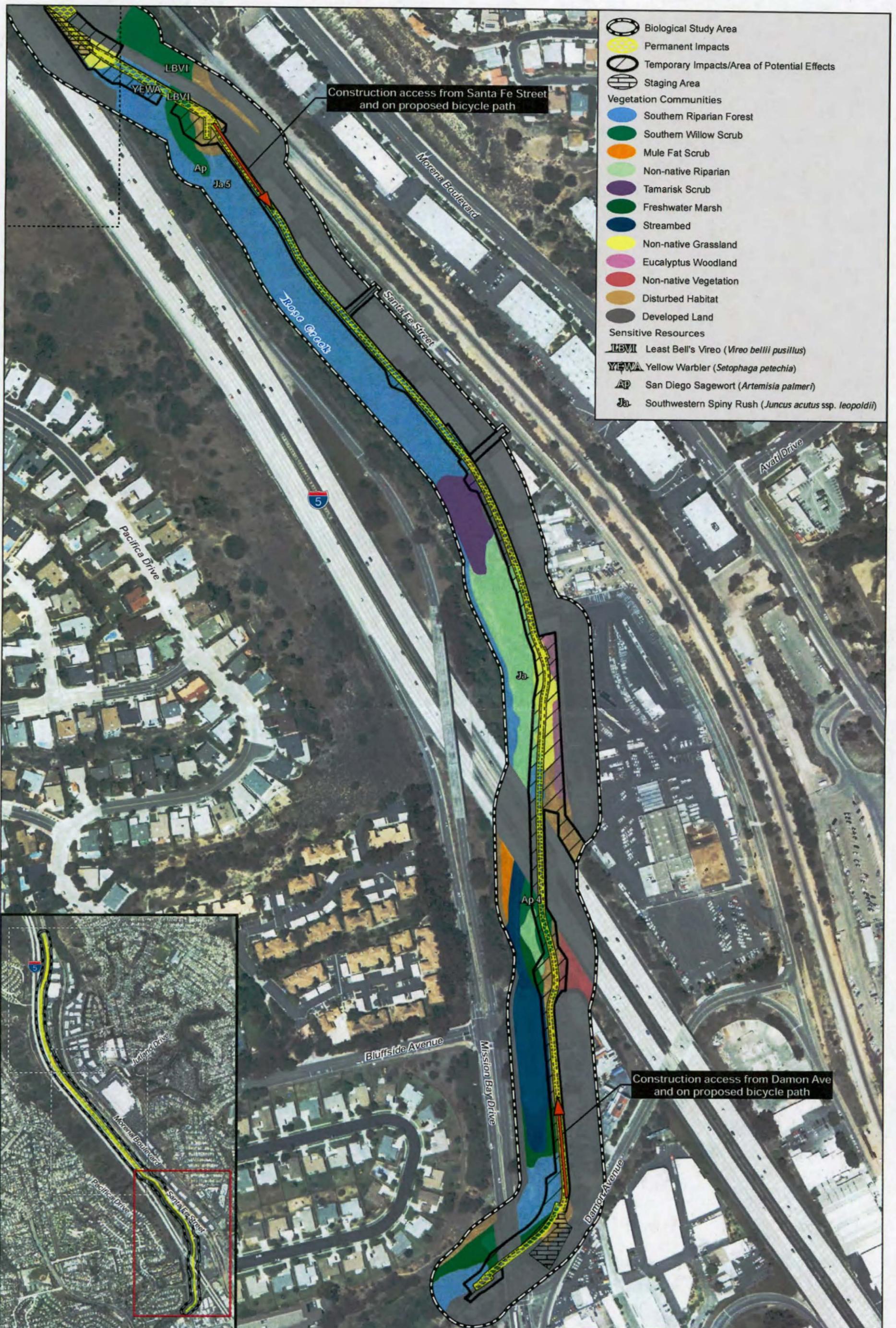
ROSE CREEK BIKEWAY PROJECT



- Biological Study Area
- Permanent Impacts
- Temporary Impacts/Area of Potential Effects
- Staging Area
- Vegetation Communities**
- Southern Riparian Forest
- Southern Willow Scrub
- Diegan Coastal Sage Scrub
- Non-native Grassland
- Disturbed Habitat
- Developed Land
- Sensitive Resources**
- San Diego Sagewort (*Artemisia palmeri*)

Vegetation and Sensitive Resources/Impacts

ROSE CREEK BIKEWAY PROJECT



Vegetation and Sensitive Resources/Impacts

ROSE CREEK BIKEWAY PROJECT

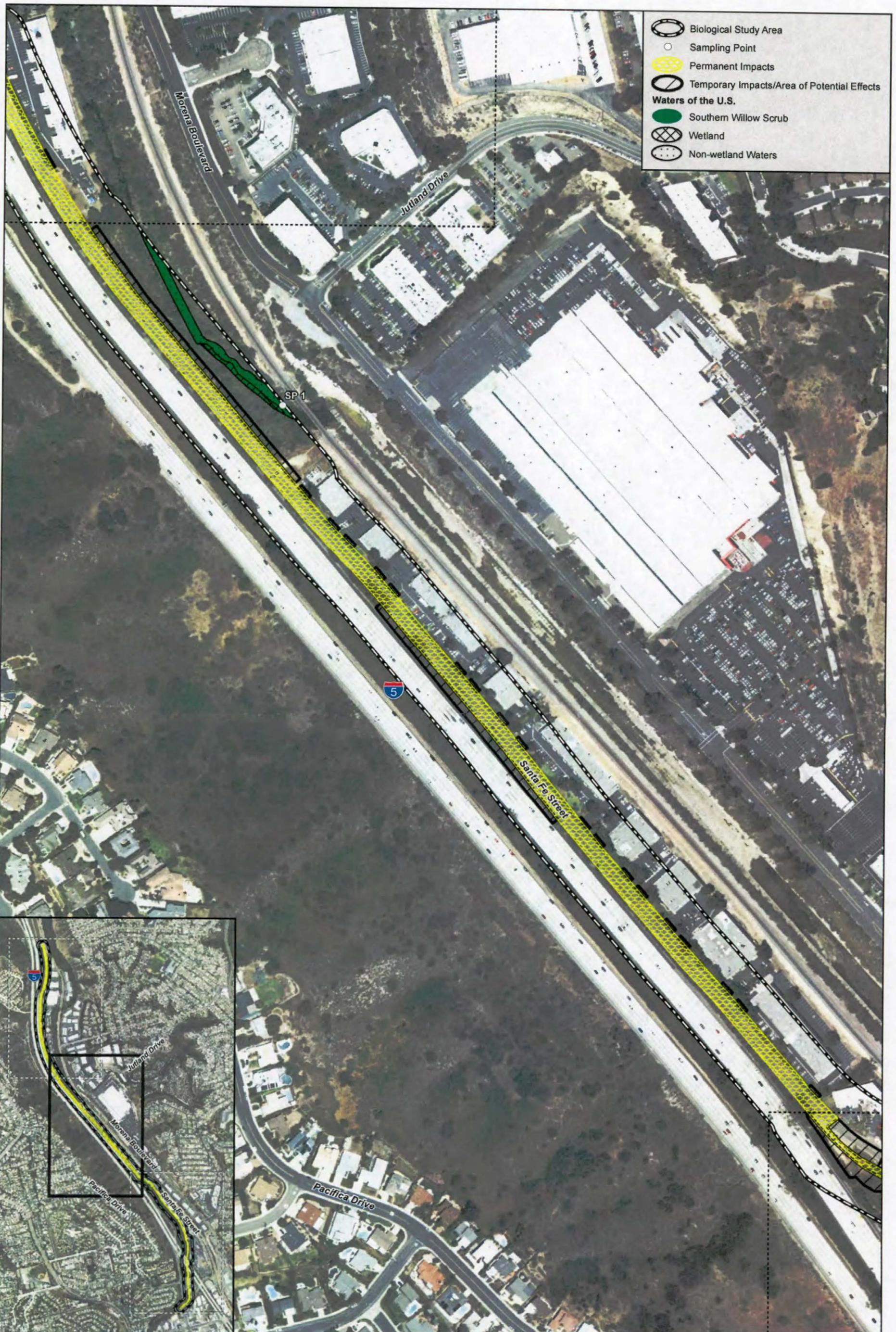


-  Biological Study Area
-  Permanent Impacts
-  Temporary Impacts/Area of Potential Effects

L:\PROJECTS\NAS\NAS-02_RoseCreekBikewayMap\NES\Fig9a-USACE_Impacts.mxd NAS-02_09/20/16-RLK

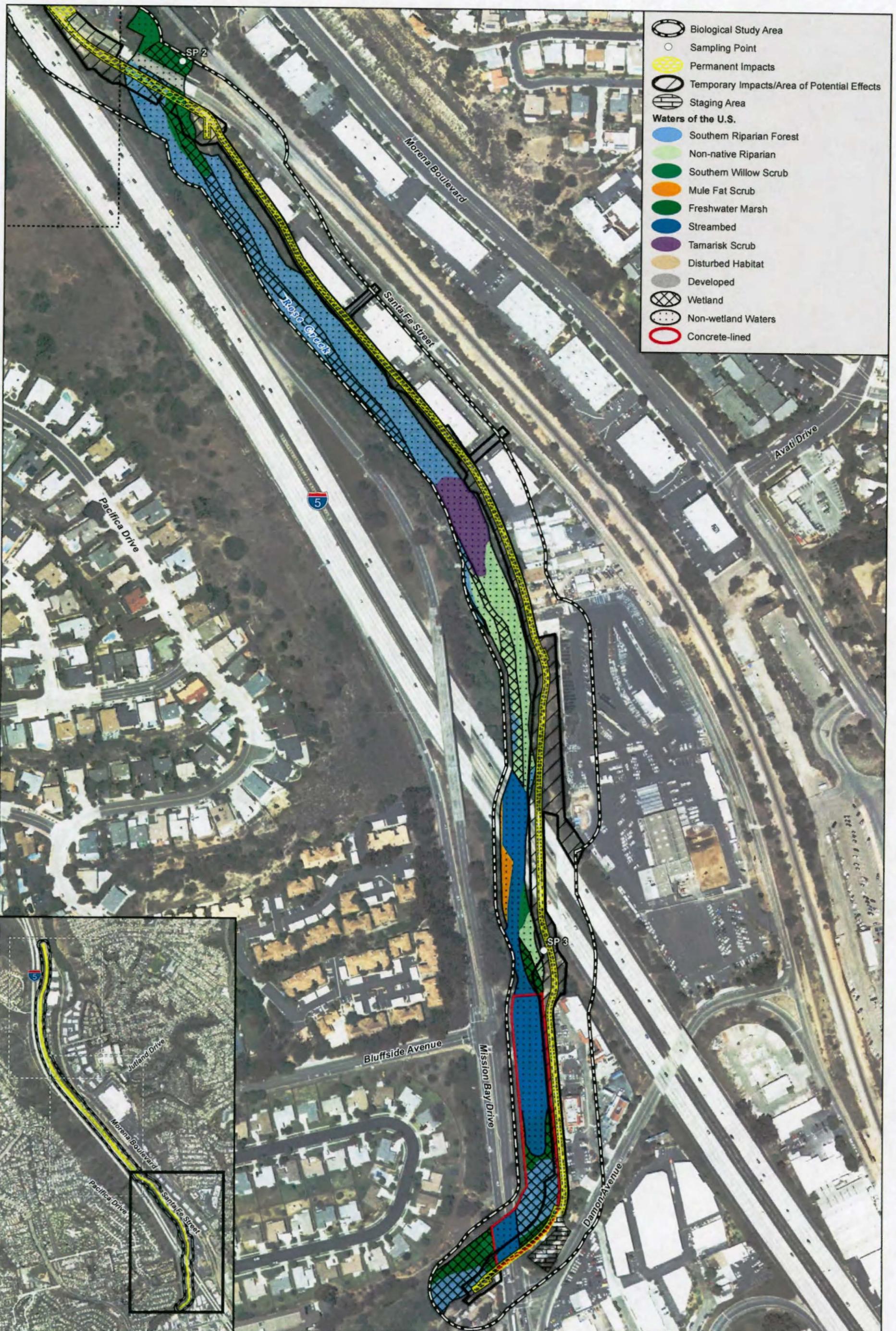
Waters of the U.S./Impacts

ROSE CREEK BIKEWAY PROJECT



Waters of the U.S./Impacts

ROSE CREEK BIKEWAY PROJECT



Waters of the U.S./Impacts

ROSE CREEK BIKEWAY PROJECT

Figure 9c

GENERAL NOTES

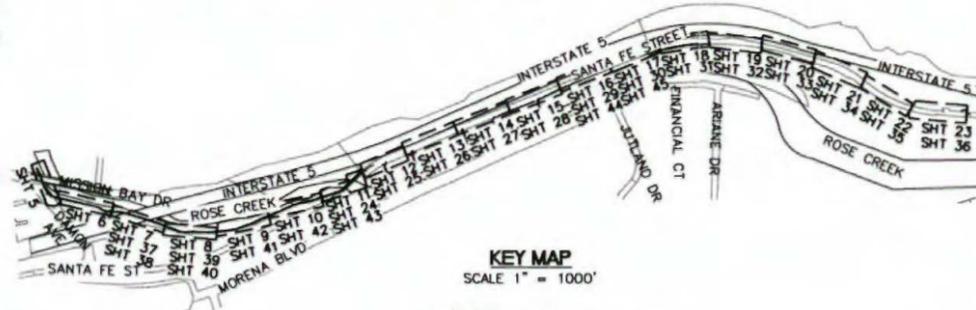
- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
- THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE CITY OF SAN DIEGO DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET SEQ.)
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, A LAND SURVEYOR SHALL REPLACE SUCH MONUMENTS WITH APPROPRIATE MONUMENTS. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE CITY OF SAN DIEGO FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
- IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TOLL FREE 1-800-422-4133, TWO DAYS BEFORE YOU DIG.
- CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT GRADING AND/OR CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET ALL APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD AND THE CITY OF SAN DIEGO MUNICIPAL CODE AND STORM WATER STANDARDS MANUAL.
- "PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT- ISSUING AUTHORITY.
- ALL EXISTING AND/OR PROPOSED PUBLIC UTILITY SYSTEM AND SERVICE FACILITIES SHALL BE INSTALLED UNDERGROUND IN ACCORDANCE WITH SECTION 144.0240 OF THE MUNICIPAL CODE.
- PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARK-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION (858) 627-3200.
- DEVIATIONS FROM THESE SIGNED PLANS WILL NOT BE ALLOWED UNLESS A CONSTRUCTION CHANGE IS APPROVED BY THE CITY ENGINEER OR THE CHANGE IS REQUIRED BY THE CITY INSPECTOR.
- AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE RESIDENT ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT BY THE CITY OF SAN DIEGO.
- AN AS-GRADED GEOTECHNICAL REPORT AND A SET OF THE REDLINE GRADING PLANS SHALL BE SUBMITTED AT AREA 3 ON THE THIRD FLOOR OF DEVELOPMENT SERVICES WITHIN 30 CALENDAR DAYS OF THE COMPLETION OF GRADING. AN ADDITIONAL SET SHALL BE PROVIDED TO THE RESIDENT ENGINEER OF THE FIELD ENGINEERING DIVISION AT 9485 AERO DR.
- THE AREA WHICH IS DEFINED AS A NON GRADING AREA AND WHICH IS NOT TO BE DISTURBED SHALL BE STAKED PRIOR TO START OF THE WORK. THE PERMIT APPLICANT AND ALL OF THEIR REPRESENTATIVES OR CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS FOR PROTECTION OF THIS AREA AS REQUIRED BY ANY APPLICABLE AGENCY. ISSUANCE OF THE CITY'S GRADING PERMIT SHALL NOT RELIEVE THE APPLICANT OR ANY OF THEIR REPRESENTATIVES OR CONTRACTORS FROM COMPLYING WITH ANY STATE OR FEDERAL REQUIREMENTS BY AGENCIES INCLUDING BUT NOT LIMITED TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE. COMPLIANCE MAY INCLUDE OBTAINING PERMITS, OTHER AUTHORIZATIONS, OR COMPLIANCE WITH MANDATES BY ANY APPLICABLE STATE OR FEDERAL AGENCY.
- CONTRACTOR SHALL REMOVE AND REPLACE ALL UTILITY BOXES SERVING AS HANDHOLES THAT ARE NOT IN "AS-NEW" CONDITION IN PROPOSED SIDEWALK, DAMAGED BOXES, OR THOSE THAT ARE NOT IN COMPLIANCE WITH CURRENT CODE SHALL BE REMOVED AND REPLACED WITH NEW BOXES, INCLUDING WATER, SEWER, TRAFFIC SIGNALS, STREET LIGHTS, DRY UTILITIES-SDG&E, COX, ETC. ALL NEW METAL LIDS SHALL BE SLIP RESISTANT (FRICTION FACTOR >= 0.50) AND INSTALLED FLUSH WITH PROPOSED SIDEWALK GRADE. IF A SLIP RESISTANT METAL LID IS NOT COMMERCIALY AVAILABLE FOR THAT USE, NEW BOXES AND LIDS SHALL BE INSTALLED.

GROUND WATER DISCHARGE NOTES

- ALL GROUND WATER EXTRACTATIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS NOT TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED TO AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2008-0002 NPDES NO. CAG919002 AND NO R9-2015-0013 NPDES NO. CAG919003.
- THE ESTIMATED MAXIMUM DISCHARGE RATES MUST NOT EXCEED THE LIMITS SET IN THE OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL BOARD UNLESS PRIOR NOTIFICATION AND SUBSEQUENT AUTHORIZATION HAS BEEN OBTAINED, AND DISCHARGE OPERATIONS MODIFIED TO ACCOMMODATE THE INCREASED RATES.
- ALL GROUND WATER EXTRACTATIONS AND SIMILAR WASTE DISCHARGES TO SURFACE WATERS TRIBUTARY TO THE SAN DIEGO BAY ARE PROHIBITED UNTIL IT CAN BE DEMONSTRATED THAT THE OWNER HAS APPLIED AND OBTAINED AUTHORIZATION FROM THE STATE OF CALIFORNIA VIA AN OFFICIAL "ENROLLMENT LETTER" FROM THE REGIONAL WATER QUALITY CONTROL BOARD IN ACCORDANCE WITH THE TERMS, PROVISIONS AND CONDITIONS OF STATE ORDER NO R9-2007-0034 NPDES NO. CAG919001 AND NO R9-2015-0013 NPDES NO. CAG919003.

GRADING AND IMPROVEMENT PLANS FOR:

COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY



KEY MAP
SCALE 1" = 1000'

ENCROACHMENT DATA TABLE		
TYPE	APPROVAL NO.	SHEET NO.
CALTRANS	11-16-NMC-0508	1-4, 6-8, 11-12, 14-15, 23-25, 27-28, 37-40, 47, 56, 57, 61, 66-75, 85-102, 104, 108, 109, 112-115
NAVY	DOC# 73-075256	5

ABBREVIATIONS

FS	FINISHED SURFACE
TC	TOP OF CURB
TB	TOP OF BERM
TG	TOP OF GRATE
IE	INVERT ELEVATION
BC	BEGINNING OF CURVE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
EC	END OF CURVE
CMP	CORRUGATE METAL PIPE
RCP	REINFORCED CONCRETE PIPE
PCC	PORTLAND CEMENT CONCRETE
AC	ASPHALT CONCRETE
ACP	ASBESTOS CEMENT PIPE
PVC	POLYVINYL CHLORIDE
FL	FLOW LINE

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 CITY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK, OR OF MY RESPONSIBILITIES FOR PROJECT DESIGN.



LAWRENCE THORNBURGH R.C.E. 49795 DATE
 NASLAND ENGINEERING
 4740 RUFFNER STREET
 SAN DIEGO, CA 92111
 (858) 292-7770

PLEASE SEE PTS 492986, 39517-D FOR POST-CONSTRUCTION BMP APPROVALS, PER SWMDCMA APPROVAL NO. XXXXXX. ALL GRADING APPROVALS HAVE BEEN ADDRESSED, PER PTS 492986, DRAWING 39517-D. ALL CONSTRUCTION BMPS HAVE BEEN ADDRESSED PER SWPPP PLAN FILED UNDER PTS 492986, WOID NO. 9 37C373277.

OWNER/APPLICANT

APPLICANT: SANDAG
 ADDRESS: 401 B ST #800, SAN DIEGO, CA 92101
 PHONE: (619) 699-1900

REFERENCE DRAWINGS

- ROSE CANYON TRUNK SEWER 26734-D
- 2ND ROSE CANYON TRUNK SEWER 13699-D
- ROSE CANYON CREEK BRIDGE CALTRANS CONTRACT 11-022424
- CONSTRUCTION OF STATE HIGHWAY CONTRACT 11-094924
- OLD ROSE CANYON TRUNK SEWER RELOCATION 35323-D
- LA JOLLA INDUSTRIAL PARK 15451-D
- MORENA BOULEVARD EXTENSION 4569-D
- RIDGEGATE LA JOLLA 18306-D

TOPOGRAPHY SOURCE

THE SOURCE OF TOPOGRAPHIC INFORMATION IS A SURVEY COMPLETED BY NASLAND ENGINEERING ON MAY 2015.

BENCHMARK

CITY OF SAN DIEGO BENCHMARK. FOUND BRASS PLUG IN EASTERLY CURB - MORENA BOULEVARD AT AVANT DRIVE ELEVATION: 102.564 FEET (DATUM NGVD29). PER CITY OF SAN DIEGO VERTICAL BENCHMARK CONVERSION TO PROJECT DATUM AT THIS BENCHMARK - ADD 2.35 FEET. SEE SHEET 2 FOR MORE INFORMATION.

EXISTING LEGAL DESCRIPTION

NOT APPLICABLE

SHEET INDEX

DESCRIPTION	SHEET
COVER SHEET	1
NOTES	2
CROSS SECTIONS	3-4
IMPROVEMENT PLANS - CLASS 1 BIKE PATH	5-11
IMPROVEMENT PLANS - SANTA FE STREET	12-36
RETAINING WALL PLANS	37-45
SIGNAGE AND STRIPING PLAN	46-55
STORM DRAIN PROFILES	56-59
EROSION CONTROL PLANS	60-65
LIGHTING PLANS	66-75
STRUCTURAL IMPROVEMENT PLAN	76-102
REVEGETATION PLAN	103-115

STORM WATER PROTECTION NOTES

- THIS PROJECT IS SUBJECT TO MUNICIPAL STORM WATER PERMIT ORDER NO. R9-2013-0001. AND RISK LEVEL/TYPE: CHECK ONE BELOW
 - WPCP
 - CGP RISK LEVEL 1
 - CGP RISK LEVEL 2
 - CGP RISK LEVEL 3
 - CGP LUP TYPE 1
 - CGP LUP TYPE 2
 - CGP LUP TYPE 3
- CHECK ONE
 - THIS PROJECT WILL EXCEED THE MAXIMUM DISTURBED AREA LIMIT. THEREFORE A WEATHER TRIGGERED ACTION PLAN (WTAP) IS REQUIRED.
 - THIS PROJECT WILL FOLLOW PHASED GRADING NOT TO EXCEED FIVE (5) ACRES PER PHASE.
 - NOT APPLICABLE
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE SWPPP AS APPLICABLE.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE WPCP OR SWPPP AS APPLICABLE.
- WATERSHED: LOS PENASQUITOS
- HYDRAULIC SUB AREA NAME: MIRAMAR
- HYDRAULIC SUB AREA NUMBER: 906.4

WORK TO BE DONE

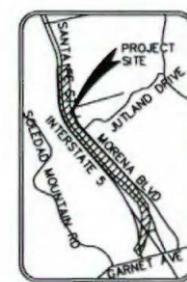
THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS AND THE SPECIFICATIONS AND STANDARD DRAWINGS OF THE CITY OF SAN DIEGO.

STANDARD SPECIFICATIONS:

DOCUMENT NO.	DESCRIPTION
PWP1070116-01	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), 2015 EDITION
PWP1070116-02	CITY OF SAN DIEGO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (WHITEBOOK), 2015 EDITION
PITS092816-07	CALIFORNIA DEPARTMENT OF TRANSPORTATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, 2014 EDITION
PITS092816-05	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD SPECIFICATIONS, 2015 EDITION
DOCUMENT NO. PWP1070116-03	CITY OF SAN DIEGO STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION, 2016 EDITION
PITS092816-06	CALIFORNIA DEPARTMENT OF TRANSPORTATION U.S. CUSTOMARY STANDARD PLANS, 2015 EDITION

LEGEND

PROPOSED PUBLIC IMPROVEMENTS	STANDARD DWGS.	SYMBOL
6" CURB & GUTTER TYPE 'G'	SDG-151	[Symbol]
PROPOSED SAWCUT LINE		[Symbol]
PROPOSED DRIVEWAY	TYPE "A", SDG-163	[Symbol]
PROPOSED DRIVEWAY	SDG-162	[Symbol]
TRENCH RESURFACING	SDG-107	[Symbol]
SAWCUT & REMOVE EXISTING PAVING & REPLACE WITH A.C.		[Symbol]
PAVEMENT PER SDG-113, SCHEDULE J (6" AC/12" CL 2 BASE)		[Symbol]
6" AC DIKE TYPE C (MODIFIED), TYPE A	G-5	[Symbol]
GRADED INLET	D-29 (TYPE I), RSP D72B (TYPE G2)	[Symbol]
STORM DRAIN	SDD-110	[Symbol]
RETAINING WALL	RSD C-12A, CALTRANS TYPE 1A, MSE	[Symbol]
GUARD RAIL	SOM-130	[Symbol]
CHAIN LINK FENCE	CALTRANS CL-6	[Symbol]
JOINT TRENCH (SDGE WO 2321279)		[Symbol]
AC BIKEWAY 4" AC / 12" CLASS 2 BASE		[Symbol]
PCC BIKEWAY 4" PCC / 6" CLASS 2 BASE	G-18	[Symbol]
LIMIT OF GRADING		[Symbol]
GREEN GUTTER		[Symbol]
RIP RAP	SDD-104	[Symbol]
CLEAN OUT	D-9	[Symbol]
STRAIGHT HEADWALL-TYPE B	D-32	[Symbol]
WING HEADWALL	D-34	[Symbol]
PIPE COLLAR	D-62	[Symbol]
BROW DITCH	SDD-106	[Symbol]
SINGLE PIPE GATE	SPPWC 602-3	[Symbol]
EXISTING PUBLIC IMPROVEMENTS		[Symbol]
RIGHT-OF-WAY		[Symbol]
EXISTING SEWER MANHOLE		[Symbol]
EXISTING SEWER		[Symbol]
EXISTING WATER		[Symbol]
EXISTING WATER METER		[Symbol]
EXISTING ELECTRIC		[Symbol]
EXISTING TELEPHONE		[Symbol]
EXISTING FIRE HYDRANT		[Symbol]
EXISTING TELEPHONE POLE		[Symbol]
EXISTING CURB		[Symbol]
EXISTING CURB AND GUTTER		[Symbol]
EXISTING DRIVEWAY		[Symbol]
EXISTING STREET LIGHT		[Symbol]
EXISTING CURB RAMP		[Symbol]
EXISTING MONUMENT		[Symbol]
(IF DESTROYED REPLACE AFTER CONSTRUCTION)		[Symbol]
EXISTING PULL BOX		[Symbol]
EXISTING METAL VAULT COVER		[Symbol]
EXISTING POSTED SIGN		[Symbol]
EXISTING OVERHEAD		[Symbol]
EXISTING COMMUNICATION		[Symbol]
EXISTING FIBER OPTIC		[Symbol]
EXISTING TREE		[Symbol]



VICINITY MAP
NOT SCALE



Nasland Civil Engineering Surveying Land Planning
 T (858) 292-7770
 4740 Ruffner Street
 San Diego, CA 92111
 nasland.com

ENGINEERING PERMIT NO. _____
 WOID NUMBER: 937C373277
 RETAINING WALL PERMIT NUMBER: _____
 CONSTRUCTION SITE
 STORM WATER PRIORITY: HIGH

PERMIT NUMBER 11-16-NMC-0508
 CO SD RTE 5 PM R23.9-R25.5
 AS-BUILT PLANS FOR ROADWAY
 GEOMETRIC AND ABOVE GROUND FEATURES

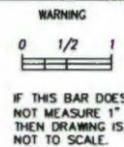
STATE REPRESENTATIVE _____ DATE _____

COVER SHEET FOR: COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY ROSE CREEK ALIGNMENT

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 1 OF 115 SHEETS		I.O. NO. 24008022 PROJECT NO. 492986
FOR CITY ENGINEER		V.T.M.
DESCRIPTION	BY	DATE
ORIGINAL	NE	
AS-BUILTS		1874- 6261 NAD83 COORDINATES
CONTRACTOR		234-1701 LAMBERT COORDINATES
CONTRACTOR	DATE STARTED	39517- 1 -D
INSPECTOR	DATE COMPLETED	

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS	APPROVAL NO.	PROJECT NO.



The City of **SAN DIEGO**
 DEVELOPMENT SERVICES DEPARTMENT

STREET DATA TABLE

STREET NAME	CLASSIFICATION	SPEED (MPH)	ADT (VEHICLES)	R/W (FT)
SANTA FE STREET	2 LANE COLLECTOR	40	4,200	48'

112-088.3

GRADING NOTES

1. GRADING AS SHOWN ON THESE PLANS SHALL BE IN CONFORMANCE WITH CURRENT STANDARD SPECIFICATIONS AND CHAPTER 14, ARTICLE 2, DIVISION 1, OF THE SAN DIEGO MUNICIPAL CODE.
2. PLANT AND IRRIGATE ALL CUT AND FILL SLOPES AS REQUIRED BY ARTICLE 2, DIVISION 4, SECTION 142.0411 OF THE SAN DIEGO LAND DEVELOPMENT CODE AND ACCORDING TO SECTION IV OF THE LAND DEVELOPMENT MANUAL LANDSCAPE STANDARDS.
3. GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED, COVERED BY STRUCTURE, OR PLANTED FOR A PERIOD OVER 90 DAYS SHALL BE TEMPORARILY RE-VEGETATED WITH A NON-IRRIGATED HYDROSEED MIX, GROUND COVER, OR EQUIVALENT MATERIAL. SEE SHEET 106 FOR MIX AND SPECIFICATIONS.

GRADING QUANTITIES

GRADED AREA	4.5 ACRES	MAX. CUT DEPTH 2 [FT]
CUT QUANTITIES	15,000 CY UNSUITABLE SOIL	MAX CUT SLOPE RATIO 2:1
FILL QUANTITIES	16,000 CY	MAX. FILL DEPTH 10 [FT]
EXPORT	15,000 CY	MAX FILL SLOPE RATIO 2:1

THIS PROJECT PROPOSES AN EXPORT OF 15,000 CUBIC YARDS OF MATERIAL FROM THE PROJECT SITE. ALL EXPORT MATERIAL SHALL BE DISCHARGED INTO A LEGAL DISPOSAL SITE. THE APPROVAL OF THIS PROJECT DOES NOT ALLOW PROCESSING AND SALE OF THE MATERIAL. ALL SUCH ACTIVITIES REQUIRE A SEPARATE CONDITIONAL USE PERMIT.

MINIMUM POST-CONSTRUCTION MAINTENANCE PLAN

AT THE COMPLETION OF THE WORK SHOWN, THE FOLLOWING PLAN SHALL BE FOLLOWED TO ENSURE WATER QUALITY CONTROL IS MAINTAINED FOR THE LIFE OF THE PROJECT:

1. STABILIZATION: ALL PLANTED SLOPES AND OTHER VEGETATED AREAS SHALL BE INSPECTED PRIOR TO OCTOBER 1 OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/2 INCH) AND REPAIRED AND REPLANTED AS NEEDED UNTIL A NOTICE OF TERMINATION (NOT) IS FILED.
2. STRUCTURAL PRACTICES: DESILTING BASINS, DIVERSION DITCHES, DOWNDRAINS, INLETS, OUTLET PROTECTION MEASURES, AND OTHER PERMANENT WATER QUALITY AND SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED PRIOR TO OCTOBER 1ST OF EACH YEAR AND AFTER MAJOR RAINFALL EVENTS (MORE THAN 1/2 INCH). REPAIRS AND REPLACEMENTS SHALL BE MADE AS NEEDED AND RECORDED IN THE MAINTENANCE LOG IN PERPETUITY.
3. OPERATION AND MAINTENANCE, FUNDING: POST-CONSTRUCTION MANAGEMENT MEASURES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL THE TRANSFER OF RESPECTIVE SITES TO HOME BUILDERS, INDIVIDUAL OWNERS, HOMEOWNERS ASSOCIATIONS, SCHOOL DISTRICTS, OR LOCAL AGENCIES AND/OR GOVERNMENTS. AT THAT TIME, THE NEW OWNERS SHALL ASSUME RESPONSIBILITY FOR THEIR RESPECTIVE PORTIONS OF THE DEVELOPMENT.

STRIPING AND SIGNING GENERAL NOTES

1. INSTALLATION OF ALL STRIPING, SIGNS AND PAVEMENT MARKERS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ALL STRIPING AND SIGNING SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE FOLLOWING MANUALS:

DESCRIPTION	EDITION	DOCUMENT NO.
STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (THE "GREENBOOK")	2015	PWP1070116-01
CITY OF SAN DIEGO STANDARD DRAWINGS	2016	PWP1070116-03
CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD)	2014	PITS070112-06

3. ALL SIGNING AND STRIPING IS SUBJECT TO THE APPROVAL OF THE CITY ENGINEER PRIOR TO INSTALLATION AND/OR REMOVAL.
4. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING STRIPING, PAVEMENT MARKINGS AND LEGENDS BY SANDBLASTING AND/OR GRINDING WITH THE SEAL. ANY DEBRIS SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
5. SIGN POSTS SHALL BE INSTALLED WITH SQUARE PERFORATED STEEL TUBING WITH A BREAKAWAY BASE PER CITY OF SAN DIEGO STANDARD DRAWING M-45.
6. ALL RAISED MEDIAN NOSES SHALL BE PAINTED YELLOW.
7. ALL SIGNS SHOWN ON THE STRIPING AND SIGNING PLANS SHALL BE NEW SIGNS PROVIDED AND INSTALLED BY THE CONTRACTOR, EXCEPT FOR EXISTING SIGNS SPECIFICALLY INDICATED TO REMAIN.
8. STRIPED CROSSWALKS SHALL HAVE AN INSIDE DIMENSION OF 10 FEET UNLESS INDICATED OTHERWISE.
9. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS (EXCEPT WITHIN BIKE LANES) SHALL BE THERMOPLASTIC.
10. THE CONTRACTOR SHALL NOTIFY THE CITY TRAFFIC ENGINEER AT (858) 495-4741 A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO AND UPON COMPLETION OF STRIPING AND SIGNING.

FOR WORK INVOLVING LIVE SEWER FACILITIES

AT LEAST FIFTEEN (15) DAYS PRIOR TO THE START OF CONSTRUCTION INVOLVING ANY EXISTING WASTEWATER FACILITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AND SUBMITTING A WASTEWATER FLOW DIVERSION PLAN THAT WILL ENSURE "ZERO SPILLS". THE PLAN SHALL BE SUBMITTED TO THE RESIDENT ENGINEER FOR REVIEW AND APPROVAL. THE DIVERSION PLAN SHALL INCLUDE AN EMERGENCY RESPONSE PLAN INDICATING THE PROCEDURES, EQUIPMENT, AND ACTIVITIES THAT WILL BE IMPLEMENTED IN THE EVENT OF AN EMERGENCY SHUTDOWN OR FAILURE OF THE FLOW DIVERSION EQUIPMENT USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE EMERGENCY PLAN IN ACCORDANCE WITH SECTION 805 OF THE 2009 CITY OF SAN DIEGO SUPPLEMENT (DOC. PITS 050409-2) TO THE STANDARDS SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION.

GRADING + GEOTECHNICAL SPECIFICATIONS

1. ALL GRADING SHALL BE DONE UNDER OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND, IF REQUIRED, BOTH A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE SOILS REPORT OR GEOLOGICAL/GEOTECHNICAL INVESTIGATION ENTITLED

FINAL REPORT OF GEOTECHNICAL INVESTIGATION COSTAL RAIL TRAIL ROSE CREEK ALIGNMENT SAN DIEGO ASSOCIATION OF GOVERNMENTS PREPARED BY ALLIED GEOTECHNICAL ENGINEERS, INC., DATED MARCH 14, 2016 AGE PROJECT NO. 52D201

2. ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE MOST RECENT VERSION OF A.S.T.M. D-1557 OR AN APPROVED ALTERNATIVE STANDARD.
3. AT THE COMPLETION OF THE GRADING OPERATIONS FOR THE EARTHWORK SHOWN ON THIS PLAN, AN AS-GRADED SOILS REPORT, OR IF REQUIRED, AN AS-GRADED GEOTECHNICAL REPORT WILL BE PREPARED IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE CITY OF SAN DIEGO TECHNICAL GUIDELINES FOR GEOTECHNICAL REPORTS. THE FINAL "AS-GRADED" GEOTECHNICAL REPORT WILL BE SUBMITTED TO THE FIELD ENGINEERING SECTION OF ENGINEERING AND CAPITAL PROJECTS DEPARTMENT AND A SECOND COPY TO THE GEOLOGY SECTION OF THE DEVELOPMENT SERVICES DEPARTMENT WITHIN 30 DAYS OF THE COMPLETION OF GRADING. WHERE GEOLOGIC INSPECTION IS INDICATED IN THE PERMIT OR PROJECT PLANS, REPORTS OR SPECIFICATIONS, THE FINAL REPORT MUST ALSO BE REVIEWED AND SIGNED BY A CALIFORNIA CERTIFIED ENGINEERING GEOLOGIST.
4. IF THE GEOTECHNICAL CONSULTANT OF RECORD IS CHANGED FOR THE PROJECT, THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT HAS AGREED IN WRITING TO ACCEPT THE RESPONSIBILITY WITHIN THE AREA OF THEIR TECHNICAL COMPETENCE FOR APPROVAL UPON COMPLETION OF THE WORK. IT SHALL BE THE DUTY OF THE PERMITTEE TO NOTIFY THE CITY ENGINEER AND THE GEOLOGY SECTION OF DEVELOPMENT SERVICES IN WRITING OF SUCH CHANGE PRIOR TO THE RECOMMENCEMENT OF GRADING.
5. THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS CONTAINED IN THE REFERENCED GEOTECHNICAL REPORT(S) PREPARED FOR THIS PROJECT.

SAN SUTANTO	P.E.	DATE
NICHOLAS E. BARNES	C.E.G.	DATE

ALLIED GEOTECHNICAL ENGINEERS, INC
9500 CUYAMACA ST, SUIT 102
SANTEE, CA 92071

6. FOR SOIL FILE SEE CITY RECORD S - 492986

VERTICAL AND HORIZONTAL CONTROL

COORDINATE TABLE				
NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
11	SET SCRIBED X	1878329.803	6262906.563	56.75
12	SET SCRIBED X	1878220.594	6263034.021	54.98
13	SET SCRIBED X	1875178.457	6263930.956	25.50
18	SET MAG/SHINER	1875991.801	6263935.822	36.68
40	SET SCRIBED X	1877830.981	6263821.629	46.26
42	SET SCRIBED X	1877251.473	6263965.366	51.51

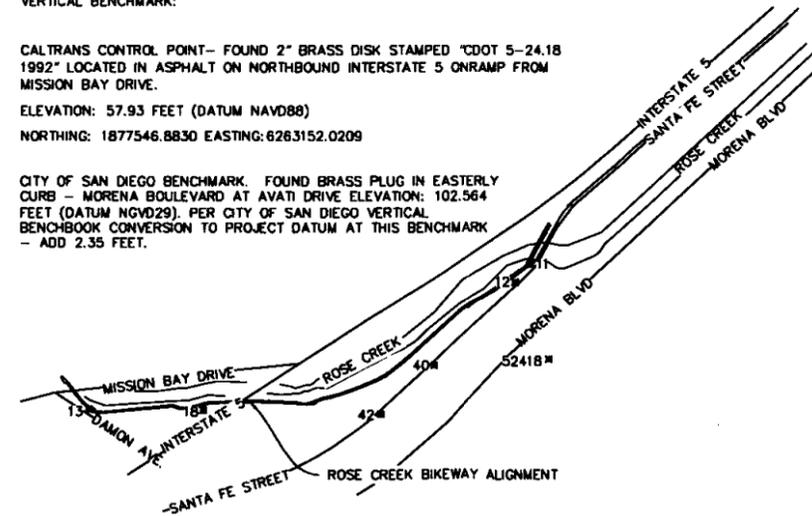
HORIZONTAL DATUM: NAD 83 EPOCH 1991.35 CCS83 ZONE 6

VERTICAL BENCHMARK:

CALTRANS CONTROL POINT- FOUND 2" BRASS DISK STAMPED "DOT 5-24.18 1992" LOCATED IN ASPHALT ON NORTHBOUND INTERSTATE 5 ONRAMP FROM MISSION BAY DRIVE.

ELEVATION: 57.93 FEET (DATUM NAVD88)
NORTHING: 1877546.8830 EASTING: 6263152.0209

CITY OF SAN DIEGO BENCHMARK. FOUND BRASS PLUG IN EASTERLY CURB - MORENA BOULEVARD AT AVATI DRIVE ELEVATION: 102.564 FEET (DATUM NAVD29). PER CITY OF SAN DIEGO VERTICAL BENCHMARK CONVERSION TO PROJECT DATUM AT THIS BENCHMARK - ADD 2.35 FEET.



SPECIAL NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF ANY OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.

1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTORS SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER, ENGINEER AND GEOLOGIST HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN THE CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROPERTY, EXCEPTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
2. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
3. DURING CONSTRUCTION: THE CONTRACTOR SHALL PROPERLY GRADE ALL EXCAVATED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. HE SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISHED WORK ON THE SITE.
4. ALL WORK NEEDING MATERIALS TESTING REQUIRES THAT THE CONTRACTOR NOTIFY THE CITY MATERIALS LAB AT 858-627-3227 BY NOON THE DAY BEFORE THE WORK IS SCHEDULED TO BEGIN TO ARRANGE FOR TESTING.
5. WORK PERFORMED WITHOUT BENEFIT OF TESTING AND/OR INSPECTION SHALL BE SUBJECT TO REJECTION AND REMOVAL.
6. THE EXISTENCE AND LOCATION OF UTILITY STRUCTURES AND FACILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITY FACILITIES OR STRUCTURES NOT KNOWN OR IN A LOCATION DIFFERENT FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THE PLANS AND ANY OTHER EXISTING FACILITIES OR STRUCTURES THAT MAY NOT BE SHOWN.
7. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT THE REVISION OF THE CONSTRUCTION PLANS IF IT IS FOUND THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
8. NEITHER THE CITY NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
9. EXISTING POLES AND LUMINAIRES TO BE REMOVED BY THE CONTRACTOR ARE TO REMAIN THE PROPERTY OF THE CITY AND TO BE DELIVERED BY THE CONTRACTOR TO THE CITY OF SAN DIEGO'S CHOLLAS YARD, AT THE REQUEST OF CITY OF SAN DIEGO. IN THE EVENT THE MATERIAL IS REFUSED BY THE CITY, ALL MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR TO DISPOSE OF IN A LEGAL MANNER.
10. CONTRACTOR SHALL REMOVE AND REPLACE, TO THE SATISFACTION OF THE CITY ENGINEER, ALL DESTROYED OR DAMAGED SURFACE IMPROVEMENTS WITH IMPROVEMENTS EQUAL OR SUPERIOR.
11. CONTRACTOR SHALL NOTIFY THE CITY OF SAN DIEGO FIELD ENGINEERING DIVISION AT 858-627-3200 48 HOURS BEFORE BEGINNING OF WORK.
12. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FROM THE CITY OF SAN DIEGO FOR WORK WITHIN THE PUBLIC RIGHT OF WAY.
13. ALL GRADES SHOWN ON THESE PLANS WERE DESIGNED IN COMPLIANCE WITH THE 2013 CALIFORNIA BUILDING CODE (CBC) AND THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ADA) TO ALLOW FOR CONSTRUCTION TOLERANCES. IT IS THE CONTRACTORS' RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THESE CODES. SHOULD A DESIGN QUESTION ARISE OR A FIELD CONDITION PRESENT ITSELF THAT IS DIFFERENT FROM THESE PLANS, WORK SHALL CEASE AND THE CIVIL ENGINEER BE NOTIFIED SO THAT AN ACCEPTABLE SOLUTION CAN BE DETERMINED. THE CONTRACTOR IS ADVISED TO CAREFULLY CHECK ALL PHASES OF WORK RELATING TO CBC AND ADA ACCESS FOR THIS PROJECT. CONSTRUCTION THAT EXCEEDS MAXIMUM OR MINIMUM DIMENSIONS AND SLOPES AS DEFINED BY CBC AND ADA ARE SUBJECT TO REJECTION AND MAY BE REQUIRED TO BE REMOVED AND REPLACED AT THE CONTRACTOR'S SOLE COST. SINCE THE CIVIL ENGINEER OR SURVEYOR CANNOT CONTROL THE EXACT METHODS OR MEANS USED BY THE CONTRACTOR OR THEIR SUB-CONTRACTORS DURING CONSTRUCTION, THE CIVIL ENGINEER ASSUMES NO RESPONSIBILITY FOR THE FINAL ACCEPTANCE OF ADA-RELATED ITEMS BY THE AGENCY HAVING JURISDICTION, ANY OTHER AUTHORITY, OR OTHER AFFECTED PARTIES.

14. THE EARTHWORK QUANTITIES ON SHEET 1 DO NOT REFLECT ANY SPECIAL CONDITIONS THAT MAY EXIST ON-SITE AND ARE FOR REFERENCE AND FEE PURPOSE ONLY. SINCE THE ENGINEER CANNOT CONTROL THE EXACT METHOD OR MEANS USED BY THE CONTRACTOR DURING GRADING OPERATIONS, NOR CAN THE ENGINEER GUARANTEE THE EXACT SOIL CONDITION OVER THE ENTIRE SITE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL EARTHWORK QUANTITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING HIS OWN EARTHWORK QUANTITIES FOR BIDDING, CONTRACT, AND CONSTRUCTION PURPOSES.

15. NOTICE TO THE APPLICANT/OWNER/OWNER'S AGENT/ARCHITECT OR ENGINEER OF RECORD: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

16. NOTICE TO THE CONTRACTORS/BUILDER/INSTALLER/SUB-CONTRACTOR/OWNER-BUILDER: BY USING THIS PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION/INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE AND ARE AWARE OF THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF CITY OF SAN DIEGO FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS, CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND, AS REQUIRED BY THE CALIFORNIA CONSTRUCTION CODES.

TRAFFIC CONTROL NOTE

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11"x17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR, BOOTH 22, DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO, (619) 446-5150. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM OF FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE. CURRENT ADT 4200.

TRUCK HAUL NOTES

THE CONTRACTOR SHALL SUBMIT A TRUCK HAUL ROUTE (11"x17") FOR APPROVAL PRIOR TO STARTING EXPORT OR IMPORT OF MATERIAL. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER, 3RD FLOOR, BOOTH 22, BUILDING, SAFETY & CONSTRUCTION DIVISION, DEVELOPMENT SERVICES CENTER, 1222 FIRST AVENUE, SAN DIEGO, (619) 446-5150. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.

PRIVATE NOTE

ALL ONSITE, PRIVATE IMPROVEMENTS SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. THE CITY ENGINEER'S APPROVAL OF THIS DRAWING, IN NO WAY CONSTITUTES AN APPROVAL OF SAID PRIVATE IMPROVEMENTS. A SEPARATE PERMIT FOR SUCH IMPROVEMENTS MAY BE REQUIRED.

PERMIT NUMBER 11-16-NMC-0508	
CO SD RTE 5 PM R23.9-R25.5	
AS-BUILT PLANS FOR ROADWAY	
GEOMETRIC AND ABOVE GROUND FEATURES	
STATE REPRESENTATIVE	DATE

**NOTES FOR:
COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
ROSE CREEK ALIGNMENT**

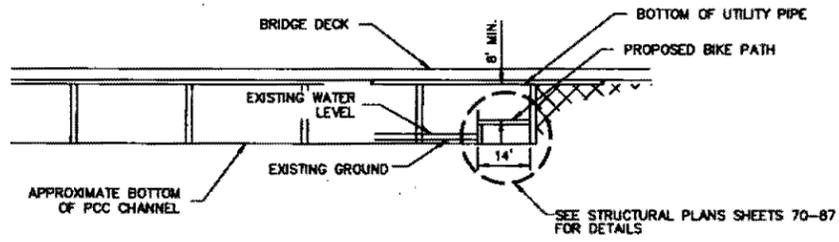
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 2 OF 115 SHEETS		I.O. No. 24006022 PROJECT No. 492986
FOR CITY ENGINEER	DATE	V.T.M.
DESCRIPTION BY	APPROVED DATE	FILED
ORIGINAL	NE	
AS-BUILTS		
CONTRACTOR	DATE STARTED	
INSPECTOR	DATE COMPLETED	



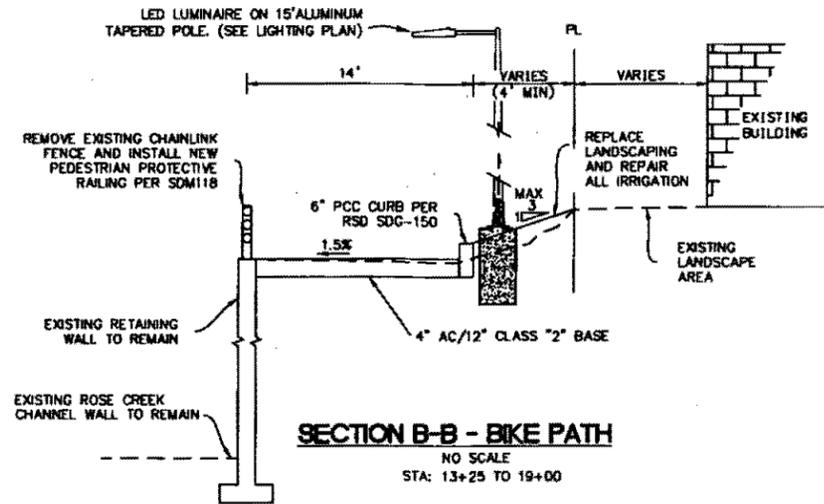
Civil Engineering Surveying Land Planning
T (858) 292-7770
4740 Ruffner Street
San Diego, CA 92111
nasland.com



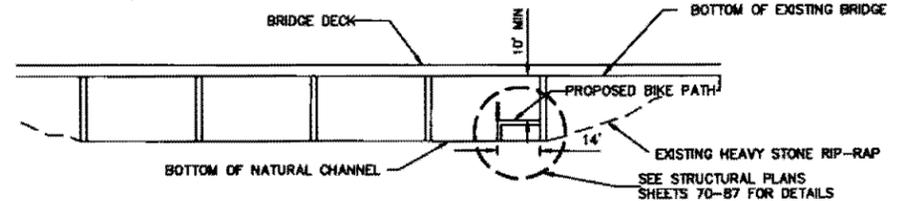
LAWRENCE THORNBURGH R.C.E. NO. 49795 EXP. 09-30-18 DATE



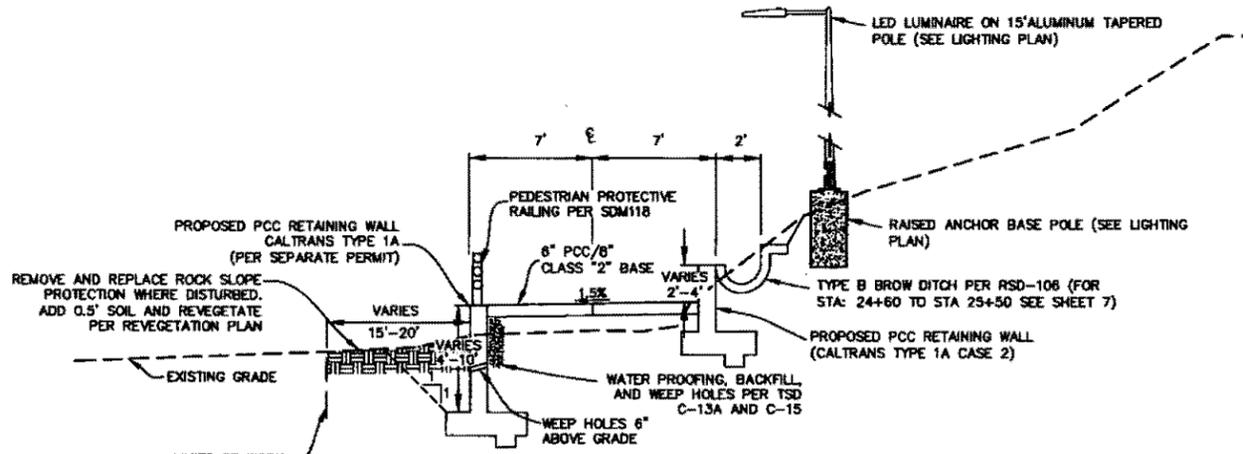
SECTION A-A - MISSION BAY BRIDGE
 NO SCALE
 STA: 9+86 TO 13+25



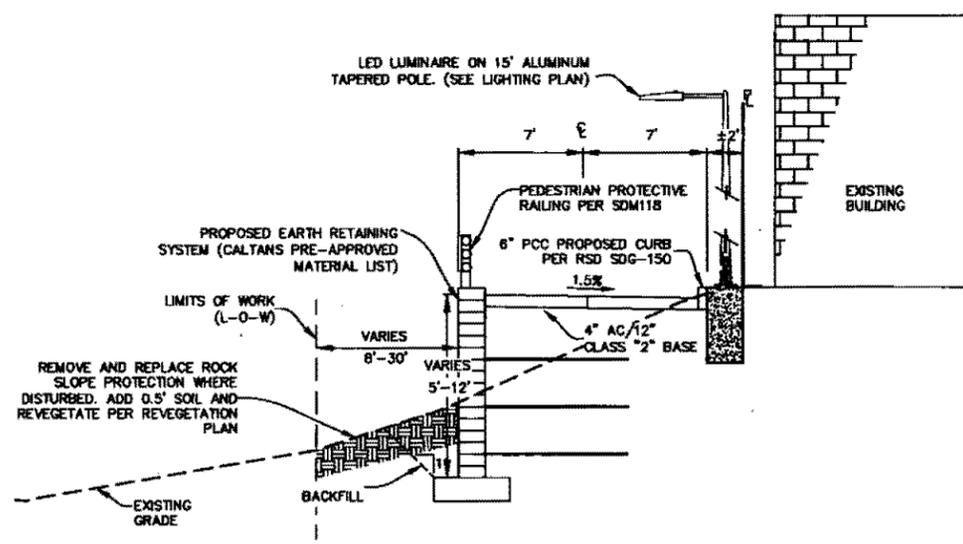
SECTION B-B - BIKE PATH
 NO SCALE
 STA: 13+25 TO 19+00



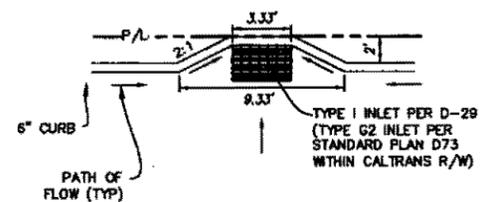
SECTION C-C - I-5 BRIDGE CROSS SECTION
 NO SCALE
 STA: 21+78 TO 24+73



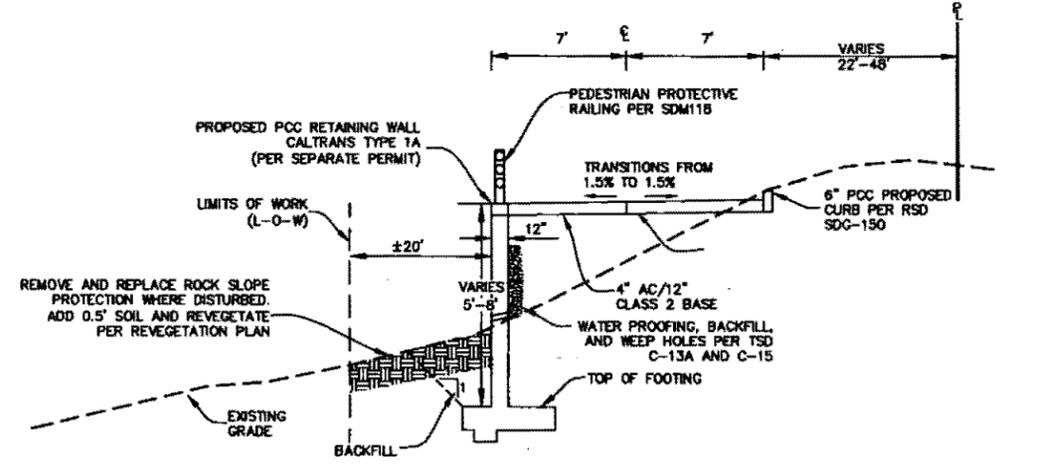
SECTION E-E - BIKE PATH
 NO SCALE
 STA: 20+32 TO 21+78 & 24+73 TO 28+20



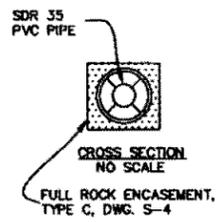
SECTION D-D - BIKE PATH
 NO SCALE
 STA: 28+80 TO 47+50



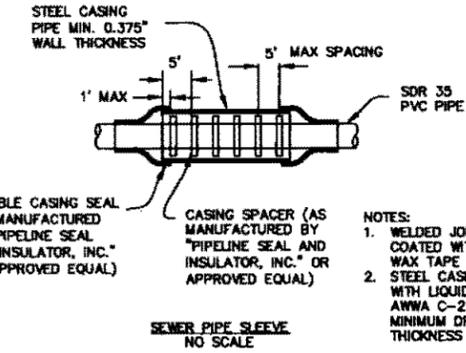
DETAIL - GRATED INLET
 NO SCALE



SECTION N-N - MULT-USE TRAIL
 NO SCALE
 STA: 28+20 TO 28+60



DETAIL - SEWER PIPE SLEEVE
 NO SCALE



- NOTES:
1. WELDED JOINTS TO BE COATED WITH PETROLEUM WAX TAPE PER AWWA C-217
 2. STEEL CASING TO BE COATED WITH LIQUID EPOXY PER AWWA C-210 AT 24 MILS MINIMUM DRY FILM THICKNESS

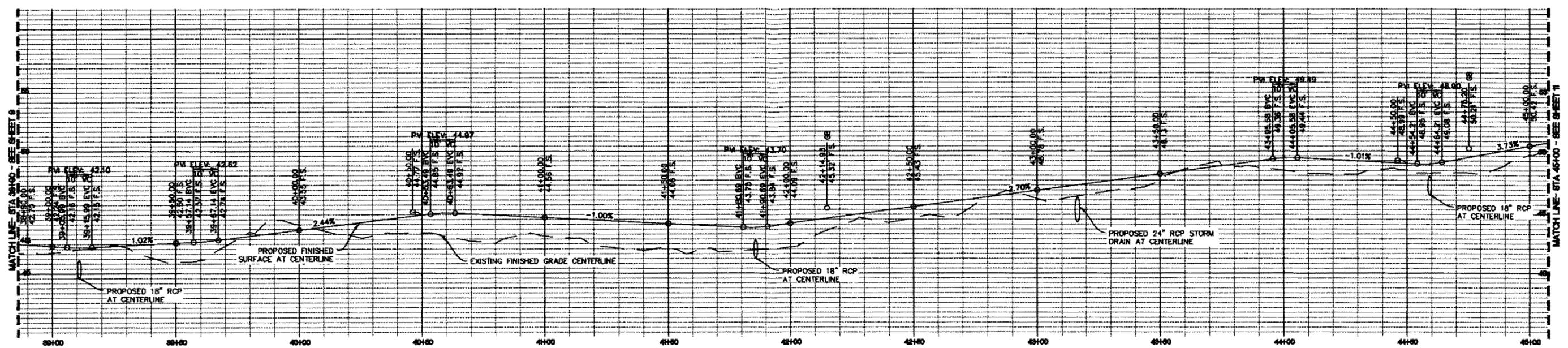
**CROSS SECTIONS FOR
 COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT**

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 3 OF 115 SHEETS				LO. NO. 24008022 PROJECT NO. 482886	V.T.M.
FOR CITY ENGINEER		DATE			
DESCRIPTION	BY	APPROVED	DATE	FILED	
ORIGINAL	NE				
AS-BUILTS					1874- 6281 NAD83 COORDINATES
CONTRACTOR					234-1701 LAMBERT COORDINATES
INSPECTOR					CONTRACTOR DATE STARTED INSPECTOR DATE COMPLETED
					39517- 3 -D



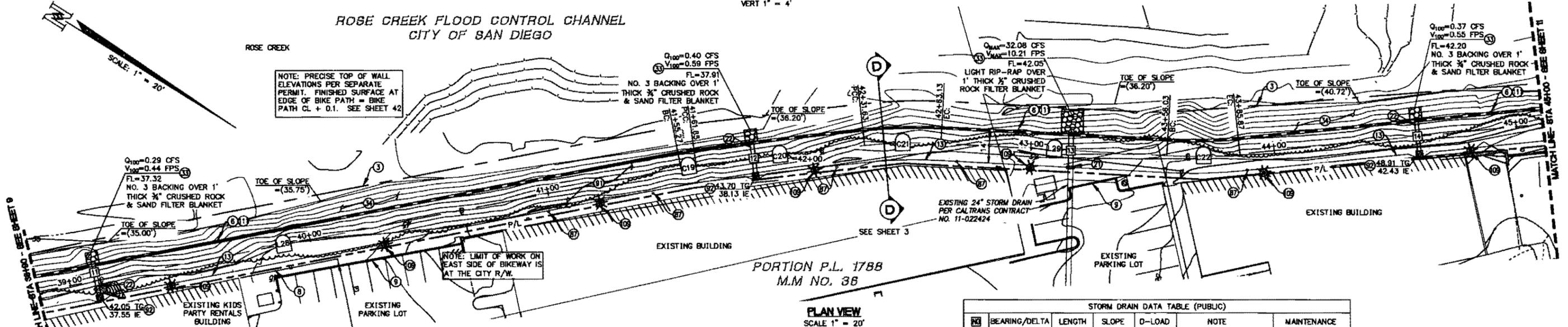
Civil Engineering
 Surveying
 Land Planning
 T (619) 292-7770
 4780 Ruffner Street
 San Diego, CA 92111
 nasland.com





PROFILE
 HORZ 1" = 20'
 VERT 1" = 4'

ROSE CREEK FLOOD CONTROL CHANNEL
 CITY OF SAN DIEGO



PLAN VIEW
 SCALE 1" = 20'

NOTE: PRECISE TOP OF WALL ELEVATIONS PER SEPARATE PERMIT. FINISHED SURFACE AT EDGE OF BIKE PATH = BIKE PATH CL + 0.1'. SEE SHEET 42

NOTE: LIMIT OF WORK ON EAST SIDE OF BIKEWAY IS AT THE CITY R/W.

CONSTRUCTION NOTES:

- ③ LIMITS OF WORK AREA. NO CONSTRUCTION ACTIVITIES BEYOND THIS POINT.
- ④ INSTALL RAILING ALONG EDGE OF PATH.
- ⑤ EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
- ⑥ EXISTING CURB TO REMAIN AND BE PROTECTED IN PLACE.
- ⑩ CONSTRUCT PCC RETAINING WALL (CALTRANS TYPE 1A). SEE SHEETS 37-45 FOR ADDITIONAL INFORMATION.
- ⑪ CONSTRUCT 6" CURB PER SDG-150.
- ⑫ EXTEND EXISTING STORM DRAIN OUTLET THROUGH BICYCLE FACILITY WITH PIPE COLLAR PER RSD D-62. GROUT TO PROVIDE WATER TIGHT CONNECTION. SEE SHEET 57 FOR STORM DRAIN PROFILE.
- ⑬ INSTALL 18" RCP IN STRUCTURE FOR DRAINAGE. INSTALL 5'X5' ENERGY DISSIPATOR AT OUTLET. SEE SHEET 57 FOR STORM DRAIN PROFILES.
- ⑭ EXISTING LIGHT TO REMAIN.
- ⑮ INSTALL RIP-RAP ENERGY DISSIPATOR. CONTRACTOR TO GROUT RIP-RAP.

- ⑯ REPLACE ALL EXISTING CONCRETE ROCK SLOPE PROTECTION DISTURBED BY CONSTRUCTION. COVER WITH 6" SOIL FOR RE-VEGETATION.
- ⑰ EXISTING ROOF DRAIN TO BE TRIMMED IF OUTLET IS WITHIN BIKEWAY FACILITY.
- ⑱ CONSTRUCT 4" AC/6" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
- ⑳ INSTALL 18" X 18" TYPE I GRATED CATCH BASIN PER RSD D-29. SEE DETAIL ON SHEET 3 FOR ADDITIONAL INFORMATION.
- ㉑ PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
- ㉒ PROPOSED EARTH RETAINING SYSTEM PER CALTRANS PRE-APPROVED MATERIAL LIST. SEE SHEETS 37 THROUGH 45 FOR ADDITIONAL INFORMATION.

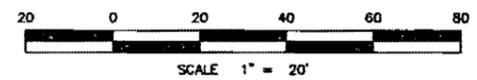
BIKE PATH CENTERLINE DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
*L27	N42°36'22"W	128.62	4"	AC/12" CLASS 2 BASE
L28	N40°51'56"W	329.00	4"	AC/12" CLASS 2 BASE
C19	3°25'05"	107.00	6.38	4" AC/12" CLASS 2 BASE
C20	1°22'26"	2918.00	69.97	4" AC/12" CLASS 2 BASE
C21	9°09'41"	197.00	31.50	4" AC/12" CLASS 2 BASE
*L29	N26°54'44"W	92.90	4"	AC/12" CLASS 2 BASE

* INDICATES THAT LINE OR CURVE RUNS THROUGH THE MATCHLINE

STORM DRAIN DATA TABLE (PUBLIC)

NO	BEARING/DELTA	LENGTH	SLOPE	D-LOAD	NOTE	MAINTENANCE
11	S61°08'55"W	14.50'	1.5%	1350-D	18" RCP (STA 39+10.9)	CITY OF SAN DIEGO
12	S61°08'55"W	14.50'	1.5%	1350-D	18" RCP (STA 41+85.8)	CITY OF SAN DIEGO
13	S61°08'55"W	14.00'	2.34%	1350-D	24" RCP (STA 43+18.3)	CITY OF SAN DIEGO
14	S61°08'55"W	14.50'	1.5%	1350-D	18" RCP (STA 44+59.2)	CITY OF SAN DIEGO



SANDAG



Civil Engineering
 Surveying
 Land Planning
 T (858) 282-7770
 4740 Huffer Street
 San Diego, CA 92111
 nasland.com

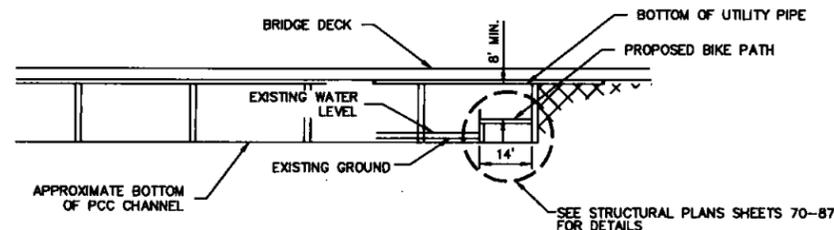
112-088.3

LAWRENCE THORNBURGH R.C.E. NO. 49795 EXP. 09-30-18 DATE



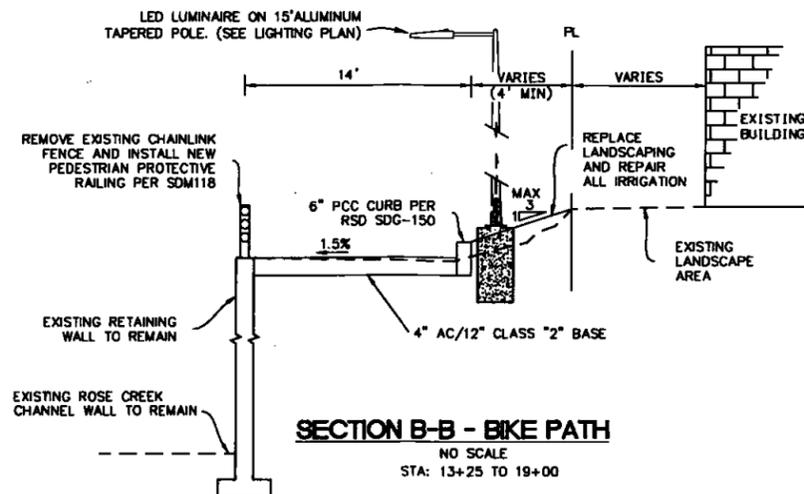
IMPROVEMENT PLANS FOR
COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT
 CLASS 1 BIKE PATH
 STA 38+00 TO STA 45+00

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 10 OF 115 SHEETS		I.O. NO. 24009022 PROJECT NO. 492986
FOR CITY ENGINEER		DATE
DESCRIPTION	BY	APPROVED
ORIGINAL	NE	
AS-BUILTS		
CONTRACTOR	DATE STARTED	
INSPECTOR	DATE COMPLETED	
		V.T.M. 1878- 6261 NAD83 COORDINATES 236-1701 LAMBERT COORDINATES
		39517-10 -D



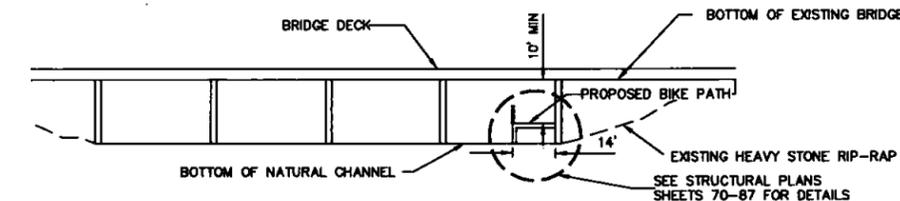
SECTION A-A - MISSION BAY BRIDGE

NO SCALE
 STA: 9+86 TO 13+25



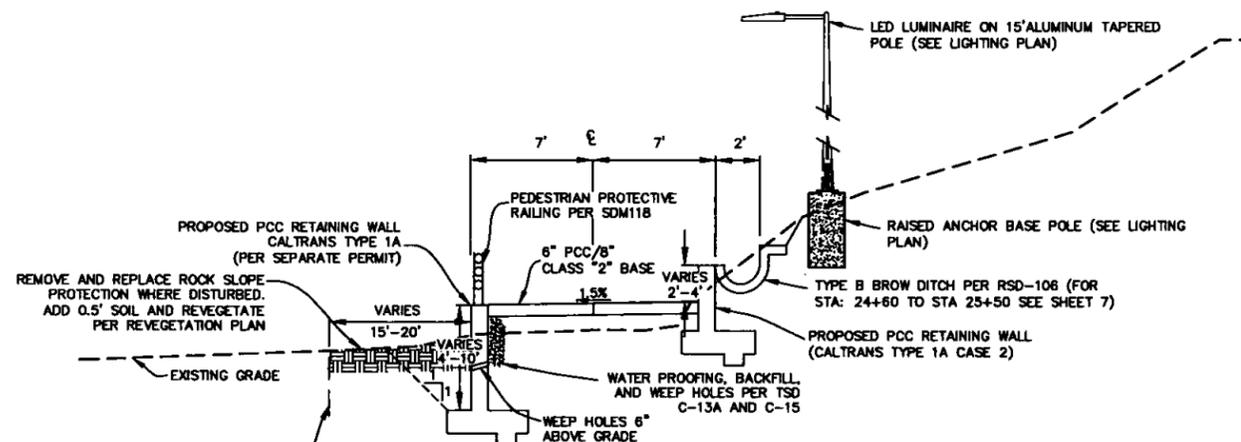
SECTION B-B - BIKE PATH

NO SCALE
 STA: 13+25 TO 19+00



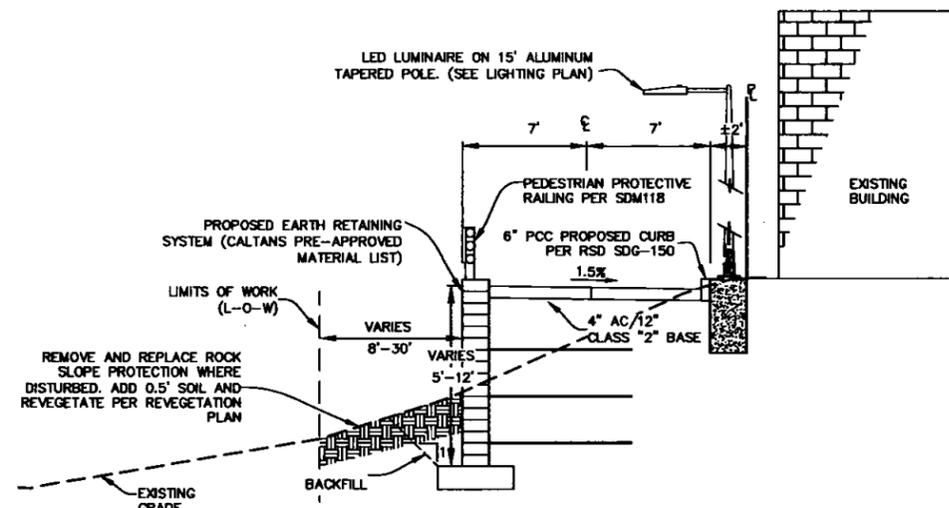
SECTION C-C - I-5 BRIDGE CROSS SECTION

NO SCALE
 STA: 21+78 TO 24+73



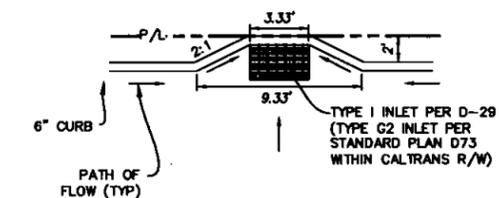
SECTION E-E - BIKE PATH

NO SCALE
 STA: 20+32 TO 21+78 & 24+73 TO 28+20



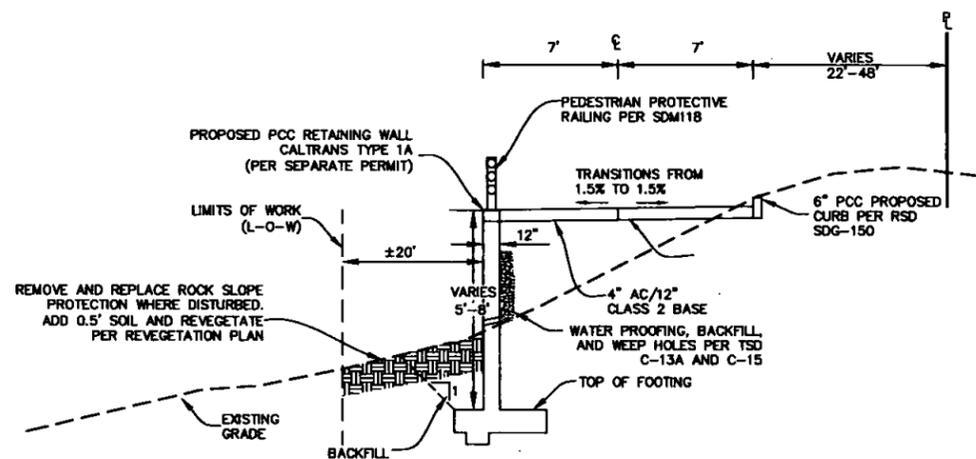
SECTION D-D - BIKE PATH

NO SCALE
 STA: 28+60 TO 47+50



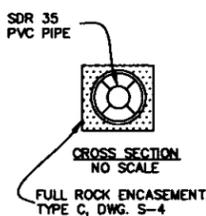
DETAIL - GRATED INLET

NO SCALE

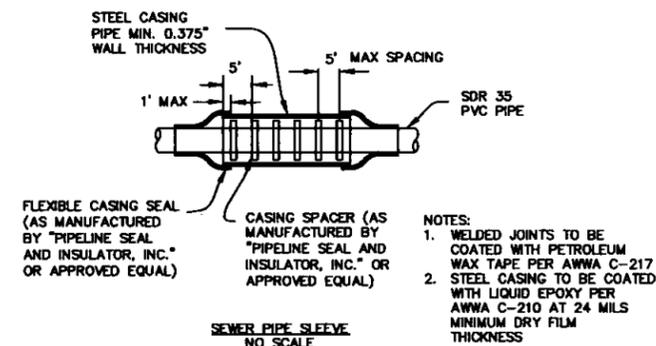


SECTION N-N - MULTI-USE TRAIL

NO SCALE
 STA: 28+20 TO 28+60



DETAIL - SEWER PIPE SLEEVE



- NOTES:
1. WELDED JOINTS TO BE COATED WITH PETROLEUM WAX TAPE PER AWWA C-217
 2. STEEL CASING TO BE COATED WITH LIQUID EPOXY PER AWWA C-210 AT 24 MILS MINIMUM DRY FILM THICKNESS



Civil Engineering
 Surveying
 Land Planning
 T (858) 292-7770
 4740 Ruffin Street
 San Diego, CA 92111
 nasland.com

112-088.3

LAWRENCE THORNBURGH R.C.E. NO. 49785 EXP. 08-30-18 DATE _____



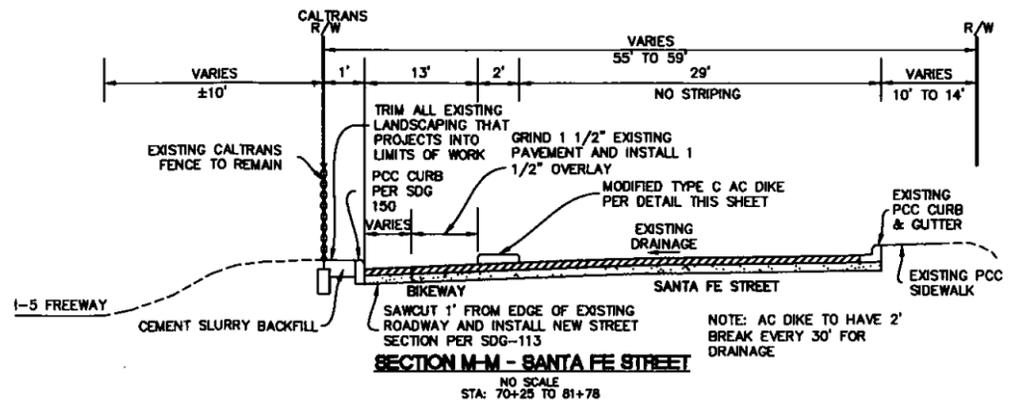
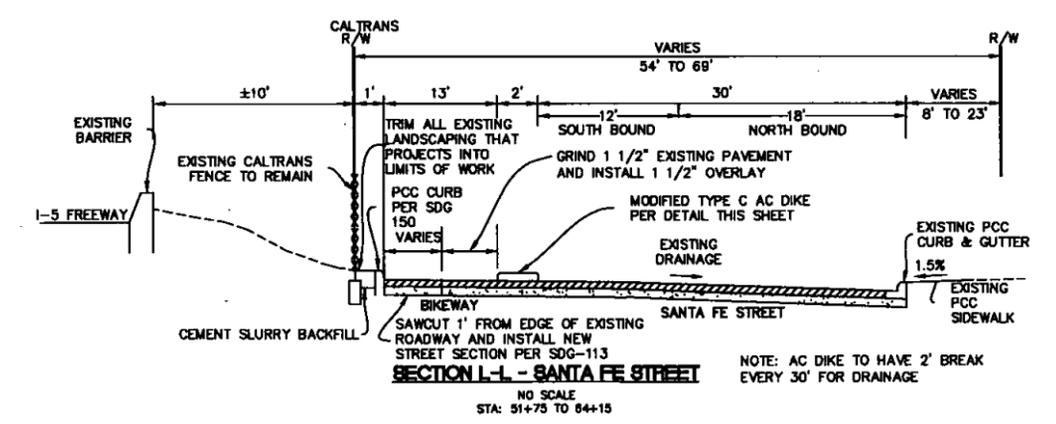
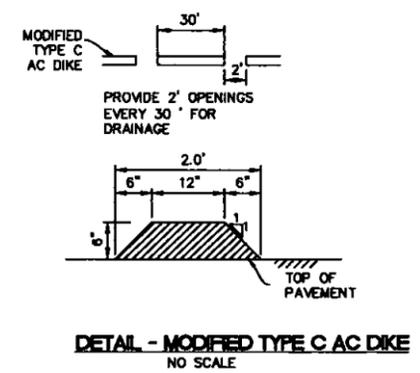
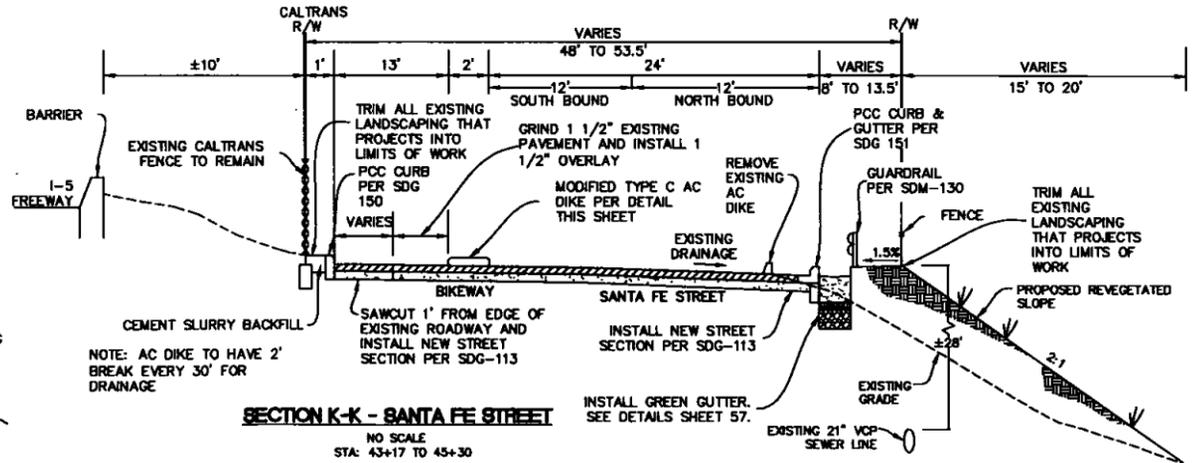
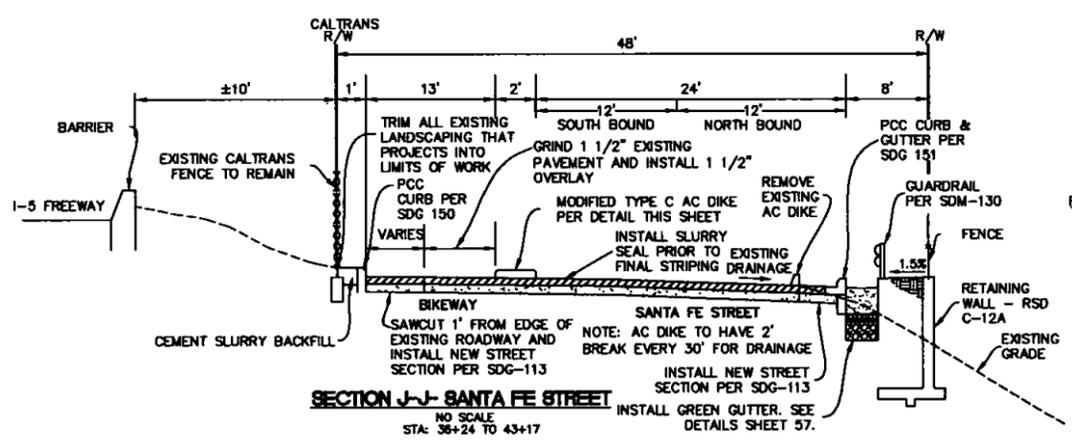
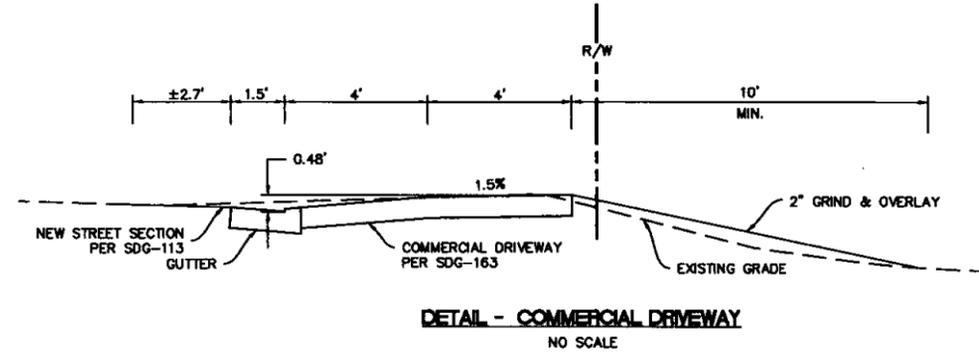
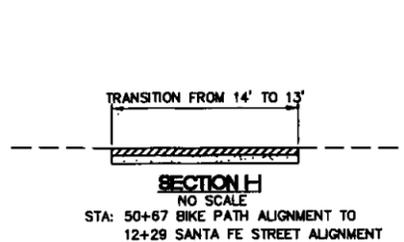
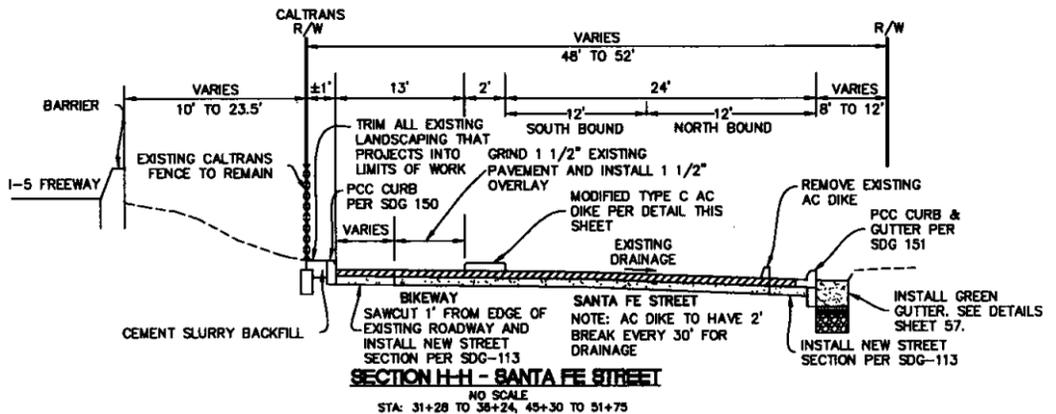
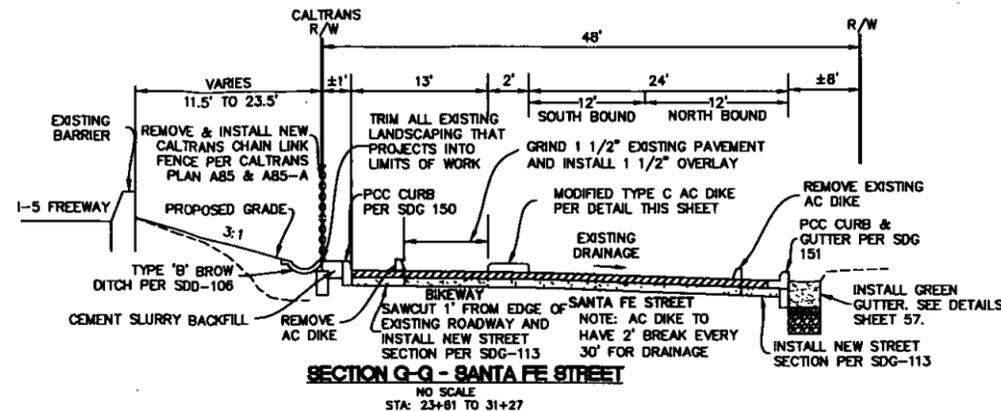
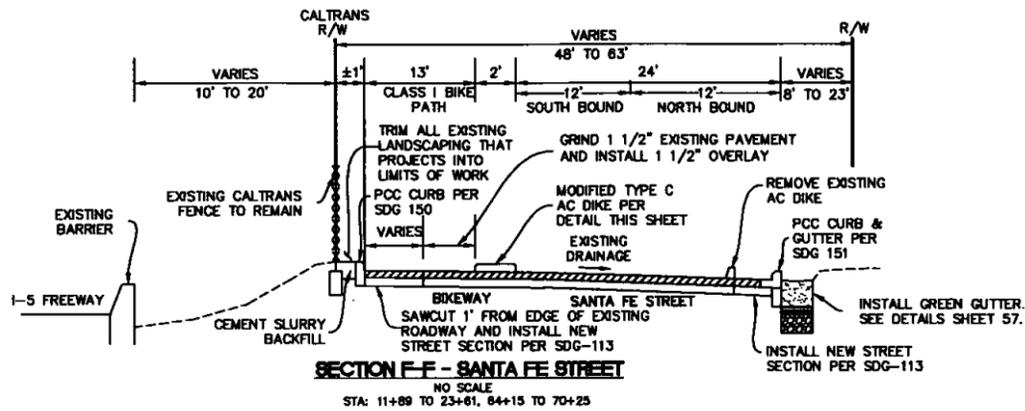
**CROSS SECTIONS FOR:
 COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT**

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 3 OF 115 SHEETS				L.O. NO. 24009022 PROJECT NO. 482888	V.T.N.
FOR CITY ENGINEER		DATE			
DESCRIPTION	BY	APPROVED	DATE	FILMED	
ORIGINAL	NE				
					1874 - 6261 NAUTIS COORDINATES
					234 - 1701 LAMBERT COORDINATES
AS-BUILTS		DATE STARTED			
CONTRACTOR		DATE COMPLETED		39517- 3 -D	
INSPECTOR					

PERMIT NUMBER 11-16-NMC-0508
 CO SD RTE 5 PM R23.9-R25.5
 AS-BUILT PLANS FOR ROADWAY
 GEOMETRIC AND ABOVE GROUND FEATURES

STATE REPRESENTATIVE _____ DATE _____

NOTE: FINAL LIFT OF NEW SANTA FE ROADWAY SECTION SHALL BE 1 1/2" WITH ADJACENT OVERLAY



**CROSS SECTIONS FOR:
 COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT**

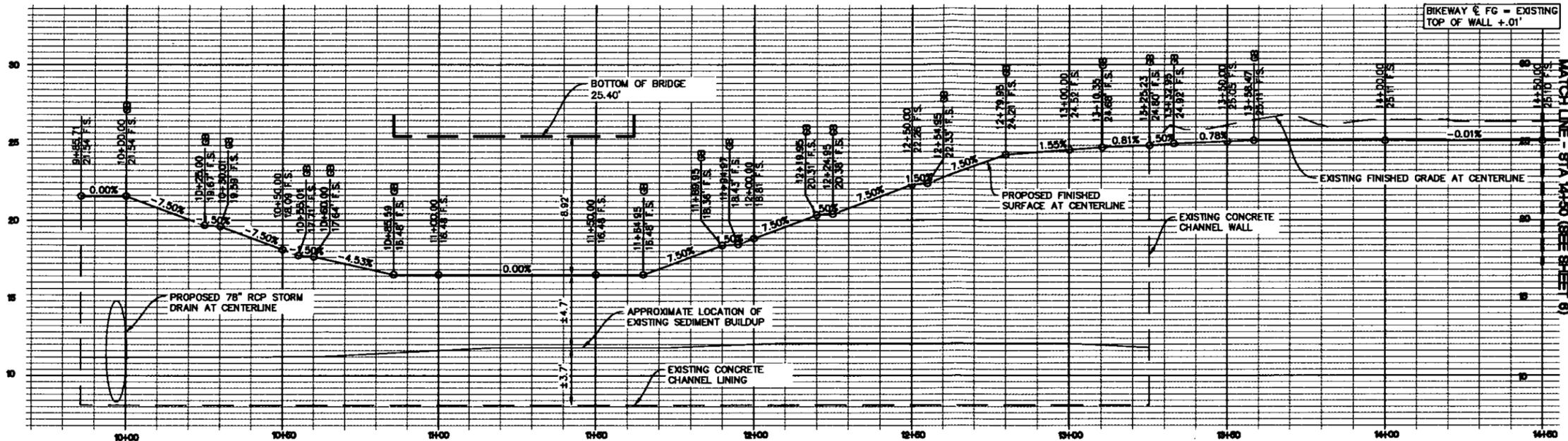
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 4 OF 115 SHEETS		I.G. NO. 2409822 PROJECT NO. 492988
FOR CITY ENGINEER	DATE	V.T.M.
DESCRIPTION BY	APPROVED DATE FILED	
ORIGINAL RE		1874- 8261 NAD83 COORDINATES
AS-BUILTS		234-1701 LAMBERT COORDINATES
CONTRACTOR	DATE STARTED	39517- 4 -D
INSPECTOR	DATE COMPLETED	



Civil Engineering
 Surveying
 Land Planning
 T (858) 292-7770
 4740 Ruffner Street
 San Diego, CA 92111
 nasland.com



LAWRENCE THORNBURGH R.C.E. NO. 49795 EXP. 09-30-18 DATE _____



- CONSTRUCTION NOTES:**
- CONSTRUCT 4" PCC/8" CLASS 2 BASE BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
 - LIMITS OF WORK AREA. NO CONSTRUCTION ACTIVITIES OUTSIDE OF THIS POINT.
 - EXISTING WALL TO REMAIN AND BE PROTECTED IN PLACE.
 - EXISTING SEWER MANHOLE TO REMAIN (ADJUST RIM TO GRADE).
 - INSTALL PEDESTRIAN PROTECTIVE RAILING PER SDM-118.
 - EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
 - EXISTING CURB TO REMAIN AND BE PROTECTED IN PLACE.
 - CONSTRUCT 6" CURB PER SDG-150.
 - STRUCTURAL UNDERCROSSING, SEE STRUCTURAL PLANS SHEETS 70-98.
 - REMOVE EXISTING CHAIN LINKED FENCE.
 - INSTALL STORM DRAIN OUTLET THROUGH BICYCLE FACILITY. CONNECT TO EXISTING OUTLET WITH PIPE COLLAR PER RSD D-62. GROUT TO PROVIDE WATER TIGHT CONNECTION. SEE SHEET 56 FOR STORM DRAIN PROFILE.
 - EXISTING LIGHT TO REMAIN AND BE PROTECTED IN PLACE.
 - EXISTING TREE TO REMAIN AND BE PROTECTED IN PLACE.
 - EXISTING GATE TO BE REMOVED.
 - CONSTRUCT 4" AC/12" CLASS 2 BASE BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
 - INSTALL 16" SINGLE PIPE GATE PER SPPWC 602-3.
 - EXISTING CONCRETE ACCESS ROAD TO BE REMOVED AND REPLACED FOR GRADE TRANSITION PER SDG-109.
 - PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
 - PROPOSED LED WALL MOUNT. SEE SHEET LIGHTING PLAN FOR ADDITIONAL INFORMATION.

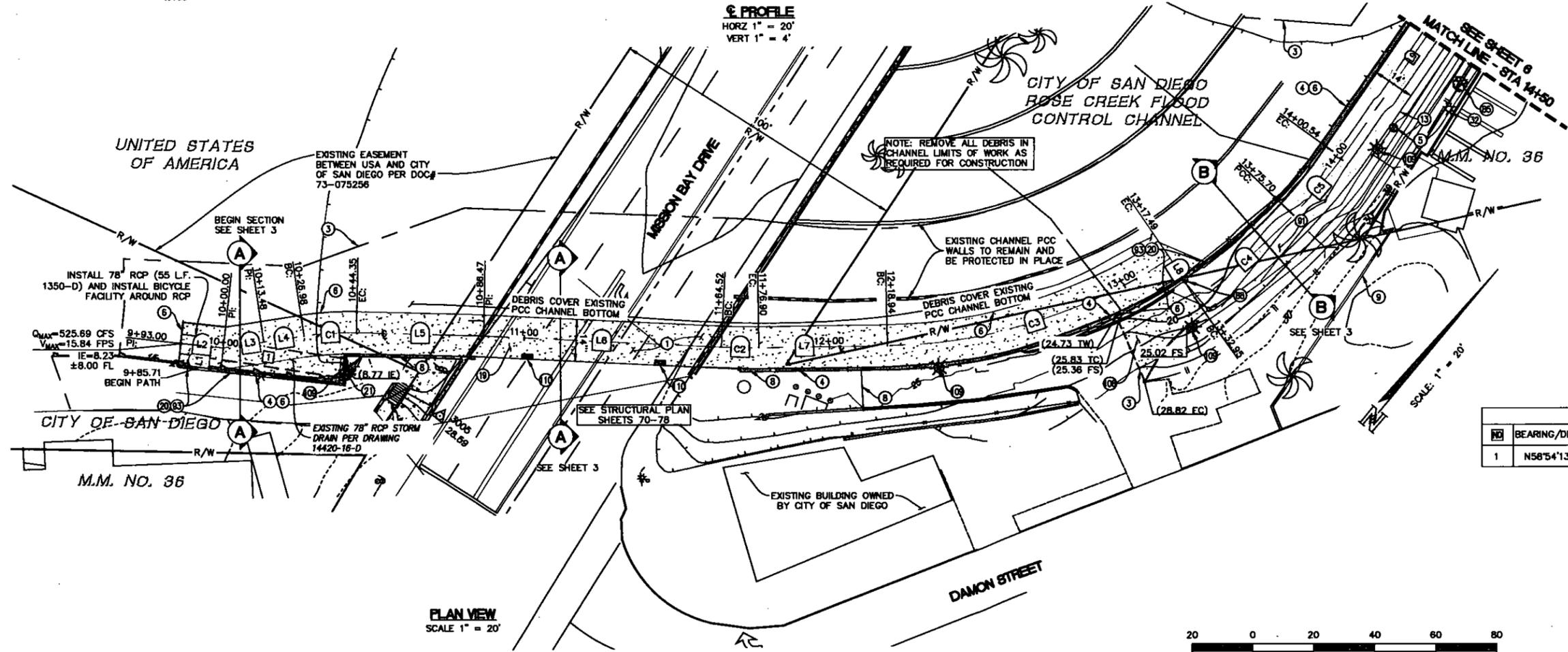
BIKE PATH CENTERLINE DATA TABLE

LINE	BEARING/DELTA	RADIUS	LENGTH	NOTE
L1	N33°28'21"W		7.29	4" PCC/8" CLASS 2 BASE
L2	N56°31'40"E		7.00	4" PCC/8" CLASS 2 BASE
L3	N41°52'18"E		13.48	4" PCC/8" CLASS 2 BASE
L4	N41°39'59"E		13.50	4" PCC/8" CLASS 2 BASE
C1	9°57'16"	100.00	17.37	4" PCC/8" CLASS 2 BASE
L5	N51°43'11"E		42.12	4" PCC/8" CLASS 2 BASE
L6	N53°03'28"E		78.05	4" PCC/8" CLASS 2 BASE
C2	3°40'31"	193.00	12.38	4" PCC/8" CLASS 2 BASE
L7	N49°22'55"E		42.04	4" PCC/8" CLASS 2 BASE
C3	32°52'39"	171.73	98.54	4" PCC/8" CLASS 2 BASE
L8	S71°13'58"E		15.47	4" PCC/8" CLASS 2 BASE
C4	11°41'40"	209.43	42.75	4" AC/12" CLASS 2 BASE
C5	6°48'23"	209.11	24.84	4" AC/12" CLASS 2 BASE
*L9	N5°22'43"W		482.51	4" AC/12" CLASS 2 BASE

* INDICATES THAT LINE OR CURVE RUNS THROUGH THE MATCHLINE.

STORM DRAIN DATA TABLE (PUBLIC)

LINE	BEARING/DELTA	LENGTH	SLOPE	D-LOAD	NOTE	MAINTENANCE
1	N58°54'13"E	54.32'	1.0%	1350-D	78" RCP (STA 9+92.6)	CITY OF SAN DIEGO



SANDAG



Civil Engineering
 Surveying
 Land Planning

T (658) 292-7770
 4740 Ruffner Street
 San Diego, CA 92111
 nasland.com

LAWRENCE THORNBURGH R.C.E. NO. 49795 EXP. 09-30-18 DATE



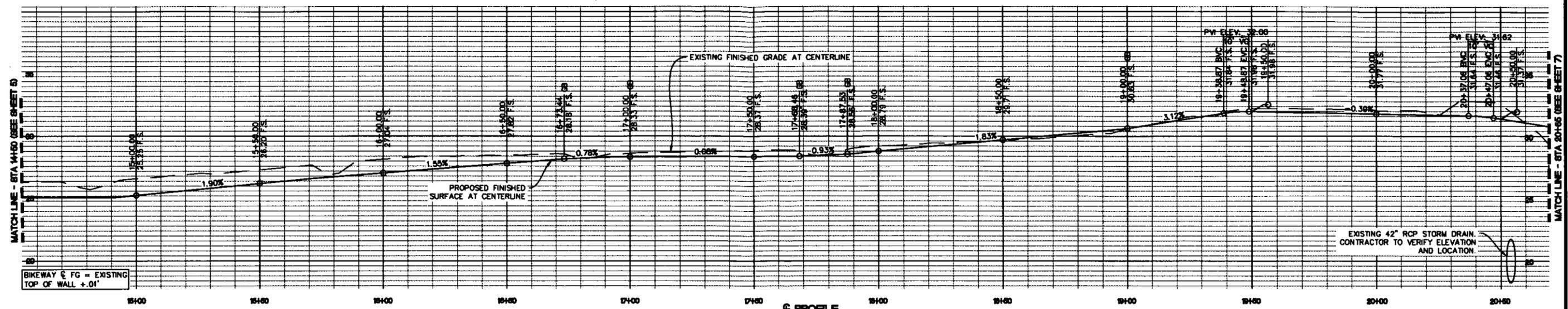
IMPROVEMENT PLANS FOR:
COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
ROSE CREEK ALIGNMENT
CLASS 1 BIKE PATH
STA 10+00 TO STA 14+50

CITY OF SAN DIEGO, CALIFORNIA
 DEVELOPMENT SERVICES DEPARTMENT
 SHEET 5 OF 115 SHEETS

FOR CITY ENGINEER: _____ DATE: _____
 DESCRIPTION BY: _____ APPROVED: _____ DATE: _____
 ORIGINAL: NE

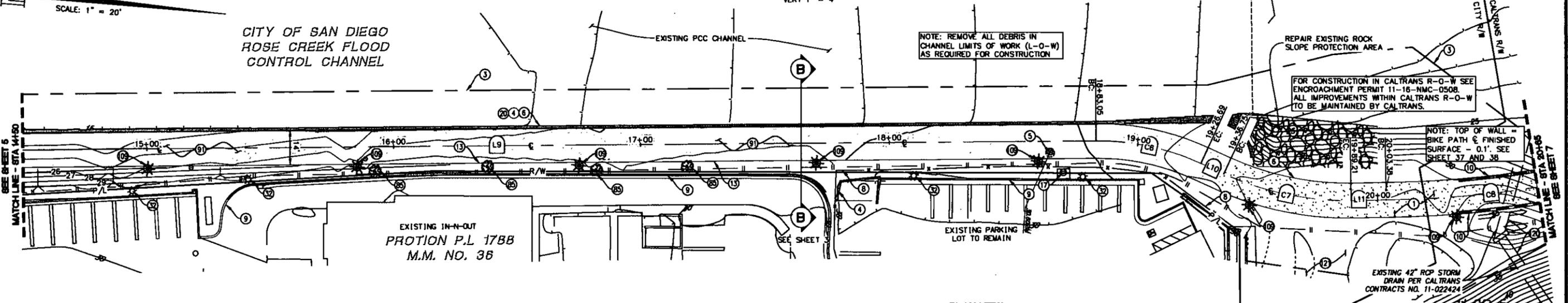
AS-BUILTS: _____
 CONTRACTOR: _____ DATE STARTED: _____
 INSPECTOR: _____ DATE COMPLETED: _____

I.Q. NO. 24008022
 PROJECT NO. 492898
 V.T.M.
 1874- 6261
 NAD83 COORDINATES
 234-1701
 LAMBERT COORDINATES
 39517- 5 -D



PROFILE
 HORZ 1" = 20'
 VERT 1" = 4'

SCALE: 1" = 20'



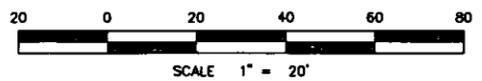
PLAN VIEW
 SCALE 1" = 20'

CONSTRUCTION NOTES:

- ① CONSTRUCT 4" PCC/6" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
- ② EXISTING FENCE TO BE REMOVED.
- ③ LIMITS OF WORK AREA. NO CONSTRUCTION ACTIVITIES OUTSIDE OF THIS POINT.
- ④ EXISTING TREE TO REMAIN AND BE PROTECTED IN PLACE.
- ⑤ EXISTING SEWER MANHOLE TO REMAIN (ADJUST RIM TO GRADE).
- ⑥ CONSTRUCT 4" AC/12" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
- ⑦ EXISTING WALL TO REMAIN AND BE PROTECTED IN PLACE.
- ⑧ PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
- ⑨ EXISTING CURB TO REMAIN AND BE PROTECTED IN PLACE.
- ⑩ EXISTING STORM DRAIN PIPE AND LUG TO REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO VERIFY LOCATION.
- ⑪ CONSTRUCT PCC RETAINING WALL (TYPE 1A PER RSD C-12A). SEE SHEETS 37 THROUGH 47 FOR PROFILE.
- ⑫ EXISTING LANDSCAPING TO REMAIN AND BE PROTECTED IN PLACE.
- ⑬ CONSTRUCT 6" CURB PER SDG-150.
- ⑭ EXISTING STORM DRAIN MANHOLE TO REMAIN AND BE PROTECTED IN PLACE.
- ⑮ EXISTING 42" RCP STORM DRAIN. CONTRACTOR TO VERIFY ELEVATION AND LOCATION.
- ⑯ REPAIR EXISTING ROCK SLOPE PROTECTION AREA.
- ⑰ FOR CONSTRUCTION IN CALTRANS R-O-W SEE ENCROACHMENT PERMIT 11-16-NMC-0508. ALL IMPROVEMENTS WITHIN CALTRANS R-O-W TO BE MAINTAINED BY CALTRANS.
- ⑱ NOTE: TOP OF WALL = BIKE PATH & FINISHED SURFACE - 0.1'. SEE SHEET 37 AND 38.

BIKE PATH CENTERLINE DATA TABLE				
NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
L9	N5°22'43"W		482.51	4" AC/12" CLASS 2 BASE
C6	25°00'13"	100.00	43.64	4" AC/12" CLASS 2 BASE
L10	N19°37'30"E		10.06	4" AC/12" CLASS 2 BASE
C7	25°28'19"	118.00	52.46	4" PCC/6" CLASS 2 BASE
L11	N5°50'49"W		14.18	4" PCC/6" CLASS 2 BASE
C8	10°53'29"	443.00	84.21	4" PCC/6" CLASS 2 BASE

* INDICATES THAT LINE OR CURVE RUNS THROUGH THE MATCHLINE



Civil Engineering
 Surveying
 Land Planning
 T (650) 292-7770
 4740 Ruffner Street
 San Diego, CA 92111
 nasland.com

112-088.3

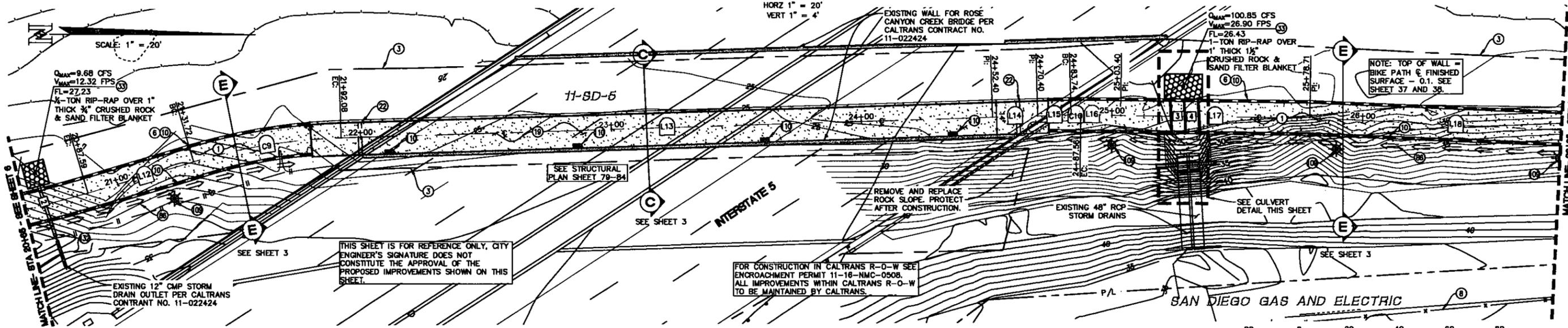
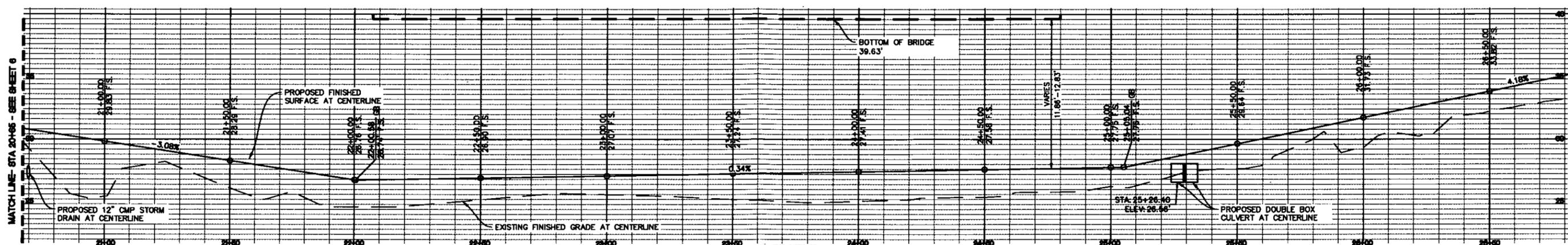
LAWRENCE THORNBURGH R.C.E. NO. 49795 EXP. 09-30-18 DATE _____



IMPROVEMENT PLANS FOR:
COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT
 CLASS 1 BIKE PATH
 STA 14+50 TO STA 20+85

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 6 OF 115 SHEETS		I.O. NO. 24006022 PROJECT NO. 492986	V.T.M.
FOR CITY ENGINEER	DATE		
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	NE		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED	39517- 6 -0	

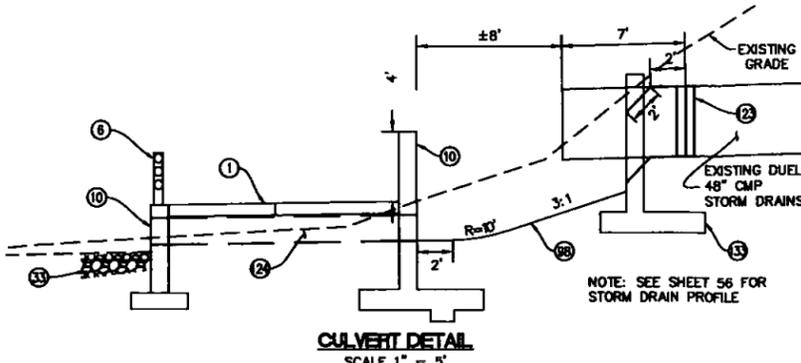
BIKEWAY ENCROACHMENT INTO CALTRANS RIGHT OF WAY



- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 4" PCC/6" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
 - 2 LIMITS OF WORK AREA. NO CONSTRUCTION ACTIVITIES OUTSIDE OF THIS POINT.
 - 3 INSTALL PEDESTRIAN PROTECTIVE RAILING PER SDM-118.
 - 4 EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
 - 5 PROPOSED PCC RETAINING WALL (TYPE 1A PER RSD C-12A). SEE SHEETS 37 THROUGH 45 FOR ADDITIONAL INFORMATION.
 - 6 STRUCTURAL UNDERCROSSING, SEE STRUCTURAL PLANS SHEETS 70-86.
 - 7 INSTALL UNDERDRAIN IN STRUCTURE FOR DRAINAGE. SEE STRUCTURAL PLANS.
 - 8 INSTALL RIP-RAP ENERGY DISSIPATOR PER SDD 104. CONTRACTOR TO GROUT RIP-RAP.
 - 9 PROPOSED TYPE 'B' BROW DITCH PER SDD-106. SEE SHEET 3.
 - 10 PROPOSED CONCRETE SPILLWAY. SEE DETAIL ON SHEET 8.
 - 11 PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
 - 12 PROPOSED LED WALL MOUNT. SEE SHEET LIGHTING PLAN FOR ADDITIONAL INFORMATION.
 - 13 CONSTRUCT 48" CMP PIPE ELBOW AT 45°. CONTRACTOR TO REMOVE 7' OF EXISTING STORM DRAIN AND CONNECT FITTING WITH ANNULAR BAND PER STANDARD PLAN D97A.
 - 14 INSTALL 1.5' X 5' DOUBLE BOX CULVERT PER CALTRANS STANDARD PLAN D81.
 - 15 INSTALL STORM DRAIN OUTLET THROUGH BICYCLE FACILITY. CONNECT TO EXISTING OUTLET WITH ANNULAR BAND PER STANDARD PLAN D97A. SEE SHEET 56 FOR STORM DRAIN PROFILE.
 - 16 CONSTRUCT DOUBLE CIRCULAR PIPE STRAIGHT HEADWALL PER CALTRANS RSP D89.

THIS SHEET IS FOR REFERENCE ONLY. CITY ENGINEER'S SIGNATURE DOES NOT CONSTITUTE THE APPROVAL OF THE PROPOSED IMPROVEMENTS SHOWN ON THIS SHEET.

FOR CONSTRUCTION IN CALTRANS R-O-W SEE ENCROACHMENT PERMIT 11-16-NMC-0508. ALL IMPROVEMENTS WITHIN CALTRANS R-O-W TO BE MAINTAINED BY CALTRANS.



NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
*C8	10°53'29"	443.00	84.21	4" PCC/6" CLASS 2 BASE
L12	N16°44'18"W		44.13	4" PCC/6" CLASS 2 BASE
C9	14°54'22"	232.00	60.36	4" PCC/6" CLASS 2 BASE
L13	N1°49'57"W		280.32	4" PCC/6" CLASS 2 BASE
L14	N1°37'24"W		18.00	4" PCC/6" CLASS 2 BASE
L15	N1°37'24"W		13.33	4" PCC/6" CLASS 2 BASE
C10	2°26'09"	90.00	3.83	4" PCC/6" CLASS 2 BASE
L16	N0°48'45"E		15.84	4" PCC/6" CLASS 2 BASE
L17	N0°48'45"E		75.31	4" PCC/6" CLASS 2 BASE
*L18	N2°53'29"E		116.76	4" PCC/6" CLASS 2 BASE

NO	BEARING/DELTA	LENGTH	SLOPE	D-LOAD	NOTE	MAINTENANCE
2	S71°22'20"W	20.80'	28.2%		12" CMP (STA 20+69.7)	CALTRANS
3	N87°02'04"E	14.03'	1.5%	1350-D	1.5'x5' CONCRETE CULVERT (STA 25+26.4)	CALTRANS
4	N87°02'04"E	14.03'	1.5%	1350-D	1.5'x5' CONCRETE CULVERT (STA 25+31.9)	CALTRANS

* INDICATES THAT LINE OR CURVE RUNS THROUGH THE MATCHLINE



Civil Engineering
 Surveying
 Land Planning

T (654) 292-7770
 4740 Ruffner Street
 San Diego, CA 92111
 nasland.com

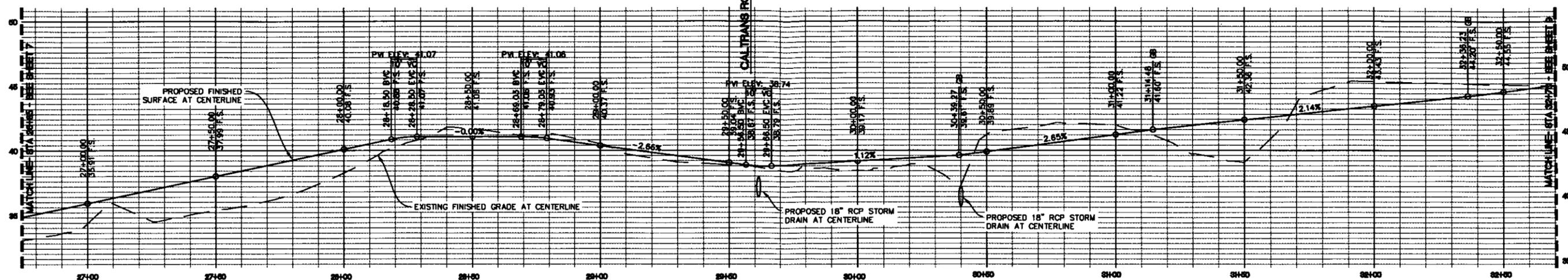


LAWRENCE THORNBURGH R.C.E. NO. 49795 EXP. 09-30-18 DATE _____

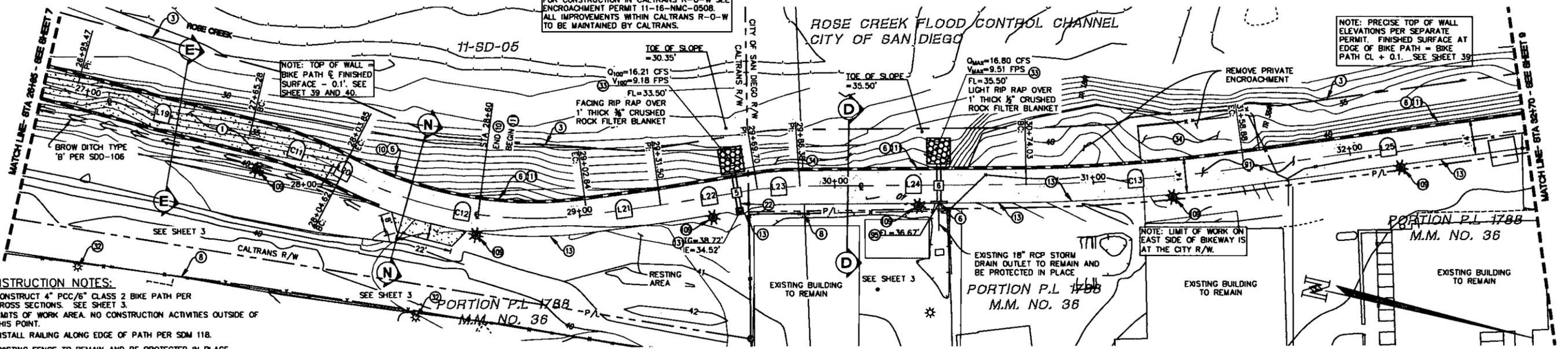
IMPROVEMENT PLANS FOR:
 COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT
 CLASS 1 BIKE PATH
 STA 20+65 TO STA 26+85

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 7 OF 115 SHEETS				I.O. NO. 24008022 PROJECT NO. 492888	
FOR CITY ENGINEER		DATE		V.T.M.	
DESCRIPTION	BY	APPROVED	DATE	FILED	
ORIGINAL	NE				
AS-BUILTS				1874- 6261 NAD83 COORDINATES	
CONTRACTOR INSPECTOR				234-1701 LAMBERT COORDINATES	
DATE STARTED			DATE COMPLETED		
_____			_____		
				39517- 7 -D	

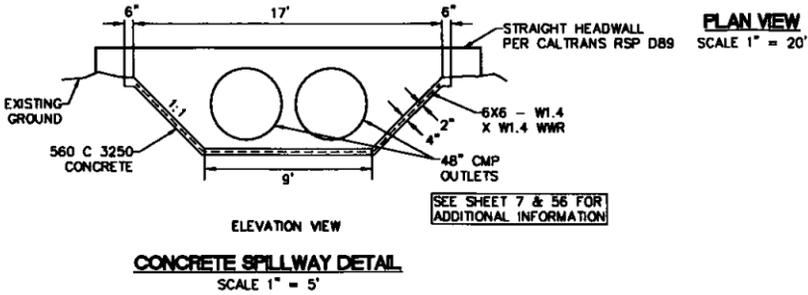
BIKEWAY ENCROACHMENT INTO CALTRANS RIGHT OF WAY



PROFILE
 HORZ 1" = 20'
 VERT 1" = 4'



- CONSTRUCTION NOTES:**
1. CONSTRUCT 4" PCC/6" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
 3. LIMITS OF WORK AREA. NO CONSTRUCTION ACTIVITIES OUTSIDE OF THIS POINT.
 6. INSTALL RAILING ALONG EDGE OF PATH PER SDM 118.
 8. EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
 10. PROPOSED PCC RETAINING WALL (TYPE 1A PER RSD C-12A). SEE SHEETS 37 THROUGH 45 FOR ADDITIONAL INFORMATION.
 13. CONSTRUCT 6" CURB PER SDG-150.
 22. INSTALL 18" RCP IN STRUCTURE FOR DRAINAGE. SEE SHEETS 56, 57 FOR STORM DRAIN PROFILES.
 23. ADJUST EXISTING PULL BOX/VAULT TO GRADE.
 24. EXISTING LIGHT TO REMAIN AND BE PROTECTED IN PLACE.
 25. INSTALL RIP-RAP ENERGY DISSIPATOR PER SDG-104. CONTRACTOR TO GROUT RIP-RAP.
 26. REPLACE ALL EXISTING CONCRETE ROCK SLOPE PROTECTION DISTURBED BY CONSTRUCTION. COVER WITH 6" OF SOIL FOR RE-VEGETATION.
 91. CONSTRUCT 4" AC/12" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
 95. PROPOSED HEADWALL PER RSD - D32.
 96. PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
 1. PROPOSED EARTH RETAINING SYSTEM PER CALTRANS PRE-APPROVED MATERIAL LIST. SEE SHEETS 37 THROUGH 45 FOR ADDITIONAL INFORMATION.
 15. INSTALL TYPE G2 INLET PER CALTRANS STANDARD PLAN D73 WITH CURB OPENING. SEE DETAIL ON SHEET 3 FOR ADDITIONAL INFORMATION.



BIKE PATH CENTERLINE DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
*L18	N2°53'29"E		116.76	4" PCC/6" CLASS 2 BASE
L19	N1°07'04"E		69.81	4" PCC/6" CLASS 2 BASE
C11	13°48'50"	160.00	38.58	4" PCC/6" CLASS 2 BASE
L20	N14°51'24"E		0.77	4" PCC/6" CLASS 2 BASE
C12	35°10'14"	160.00	98.21	4" AC/12" CLASS 2 BASE
L21	N2°18'49"W		28.67	4" AC/12" CLASS 2 BASE
L22	N21°59'05"W		38.20	4" AC/12" CLASS 2 BASE
L23	N16°43'14"W		16.68	4" AC/12" CLASS 2 BASE
*L24	N13°14'08"W		87.65	4" AC/12" CLASS 2 BASE

STORM DRAIN DATA TABLE (PUBLIC)

NO	BEARING/DELTA	LENGTH	SLOPE	D-LOAD	NOTE	MAINTENANCE
5	S67°36'25"W	15.19'	2.06%	1350-D	18" RCP (STA 29+62.5)	CALTRANS
6	S76°51'28"W	15.72'	2.55%	1350-D	18" RCP (STA 30+40.0)	CITY OF SAN DIEGO

IMPROVEMENT PLANS FOR:
COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT
 CLASS 1 BIKE PATH
 STA 26+85 TO STA 32+70

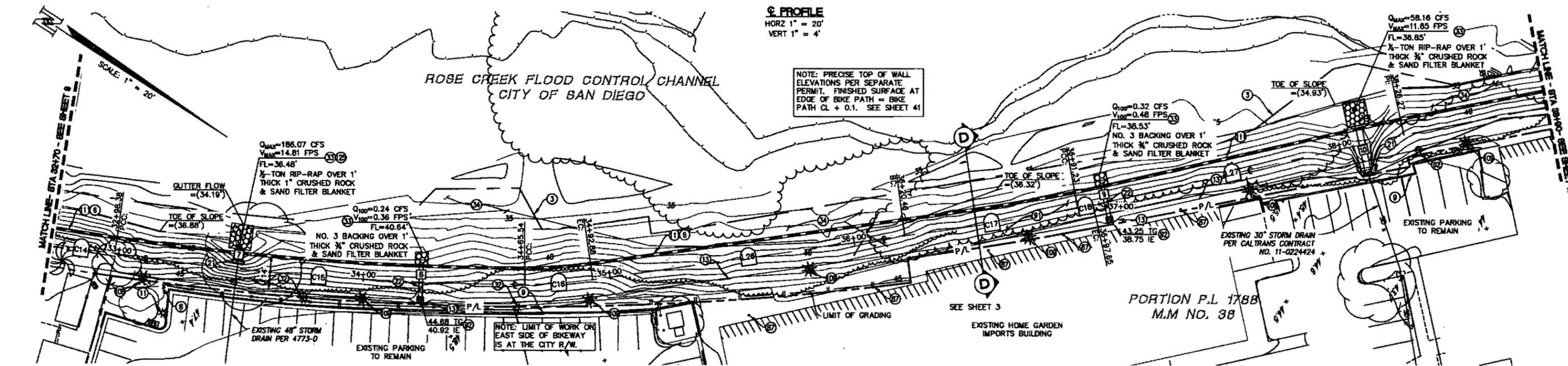
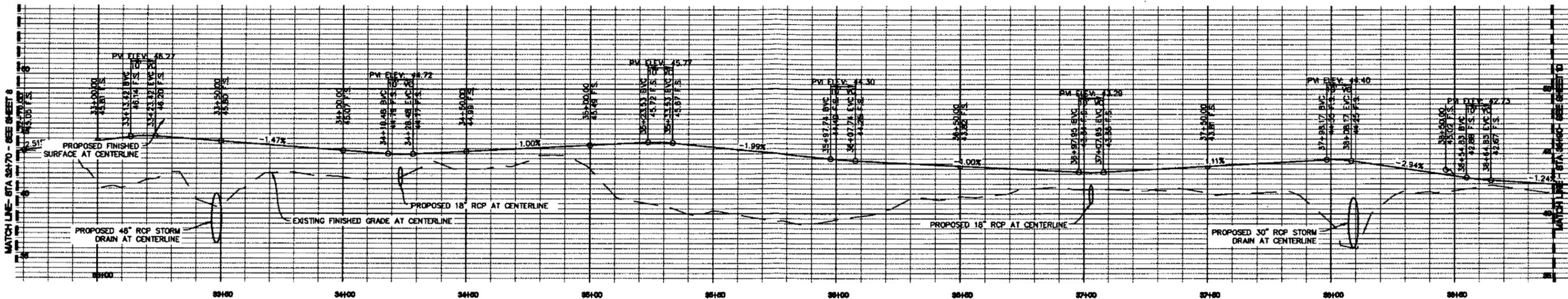
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 8 OF 115 SHEETS		L.O. NO. 2400922 PROJECT NO. 492986
FOR CITY ENGINEER	DATE	V.T.M.
DESCRIPTION BY	APPROVED	DATE FILED
ORIGINAL	NE	
AS-BUILTS		1876-6261 NAD83 COORDINATES
CONTRACTOR	DATE STARTED	236-1701 LAMBERT COORDINATES
INSPECTOR	DATE COMPLETED	39517-8-0



Civil Engineering
 Surveying
 Land Planning

T (658) 292-7770
 4740 Hillcrest Street
 San Diego, CA 92111
 nasland.com





- CONSTRUCTION NOTES:**
- ① LIMITS OF WORK AREA. NO CONSTRUCTION ACTIVITIES OUTSIDE OF THIS POINT.
 - ② INSTALL RAILING ALONG EDGE OF PATH PER SDM-118.
 - ③ EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
 - ④ EXISTING CURB TO REMAIN AND BE PROTECTED IN PLACE.
 - ⑤ EXISTING POWER POLE TO REMAIN AND BE PROTECTED IN PLACE.
 - ⑥ CONSTRUCT 6" CURB PER SDG-150.
 - ⑦ EXTEND EXISTING STORM DRAIN OUTLET THROUGH BICYCLE FACILITY WITH PIPE COLLAR PER RSD D-62. GROUT TO PROVIDE WATER TIGHT CONNECTION. SEE SHEETS 56, 57 FOR STORM DRAIN PROFILE.
 - ⑧ INSTALL 18" RCP IN STRUCTURE FOR DRAINAGE. INSTALL 5'x5' RIP-RAP ENERGY DISSIPATOR AT OUTLET. SEE SHEETS 56, 57 FOR STORM DRAIN PROFILES.
 - ⑨ EXISTING LIGHT POLE TO REMAIN AND BE PROTECTED IN PLACE.
 - ⑩ INSTALL RIP RAP ENERGY DISSIPATOR PER SDD-104. CONTRACTOR TO GROUT RIP-RAP.
 - ⑪ REPLACE ALL EXISTING CONCRETE ROCK SLOPE PROTECTION DISTURBED BY CONSTRUCTION. COVER WITH 6" SOIL FOR RE-VEGETATION.
 - ⑫ EXISTING SEWER MANHOLE TO BE REMOVED. INSTALL NEW MANHOLE PER DETAIL U48 PER CALTRANS STANDARD PLAN 67-11. ADJUST RIM TO GRADE.
 - ⑬ EXISTING ROOF DRAIN TO BE TRIMMED IF OUTLET IS WITHIN BIKEWAY FACILITY.
 - ⑭ CONSTRUCT 4" AC/12" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
 - ⑮ INSTALL TYPE 1 CATCH BASIN PER RSD D-29 WITH CURB OPENING. SEE DETAIL ON SHEET 3 FOR ADDITIONAL INFORMATION.
 - ⑯ PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
 - ⑰ PROPOSED EARTH RETAINING SYSTEM PER CALTRANS PRE-APPROVED MATERIAL LIST. SEE SHEETS 37 THROUGH 45 FOR ADDITIONAL INFORMATION.
 - ⑱ REMOVE EXISTING CONCRETE DITCH.

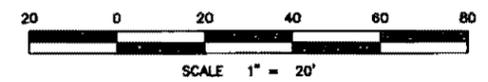
STORM DRAIN DATA TABLE (PUBLIC)

NO	BEARING/DELTA	LENGTH	SLOPE	D-LOAD	NOTE	MAINTENANCE
7	S67°31'49"W	16.88'	1.60%	1350-D	48" RCP (STA 33+48.3)	CITY OF SAN DIEGO
8	N62°07'17"E	14.50'	1.5%	1350-D	18" RCP (STA 34+23.4)	CITY OF SAN DIEGO
9	N47°23'38"E	14.50'	1.5%	1350-D	18" RCP (STA 37+02.9)	CITY OF SAN DIEGO
10	S48°13'08"W	20.11'	2.92%	1350-D	30" RCP (STA 38+08.1)	CITY OF SAN DIEGO

BIKE PATH CENTERLINE DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
*L24	N13°14'08"W		87.65	4" AC/12" CLASS 2 BASE
C13	6°56'04"	701.00	84.84	4" AC/12" CLASS 2 BASE
L25	N20°35'53"W		111.98	4" AC/12" CLASS 2 BASE
C14	1°18'50"	1201.00	27.54	4" AC/12" CLASS 2 BASE
C15	7°58'30"	1201.00	167.17	4" AC/12" CLASS 2 BASE
C16	6°08'52"	193.00	27.33	4" AC/12" CLASS 2 BASE
L26	N38°00'06"W		127.58	4" AC/12" CLASS 2 BASE
C17	3°24'28"	1169.84	70.77	4" AC/12" CLASS 2 BASE
C18	1°54'27"	193.00	6.43	4" AC/12" CLASS 2 BASE
*L27	N42°36'22"W		128.62	4" AC/12" CLASS 2 BASE

* INDICATES THAT LINE OR CURVE RUNS THROUGH THE MATCHLINE.



**IMPROVEMENT PLANS FOR
COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
ROSE CREEK ALIGNMENT
CLASS 1 BIKE PATH
STA 32+70 TO STA 38+00**

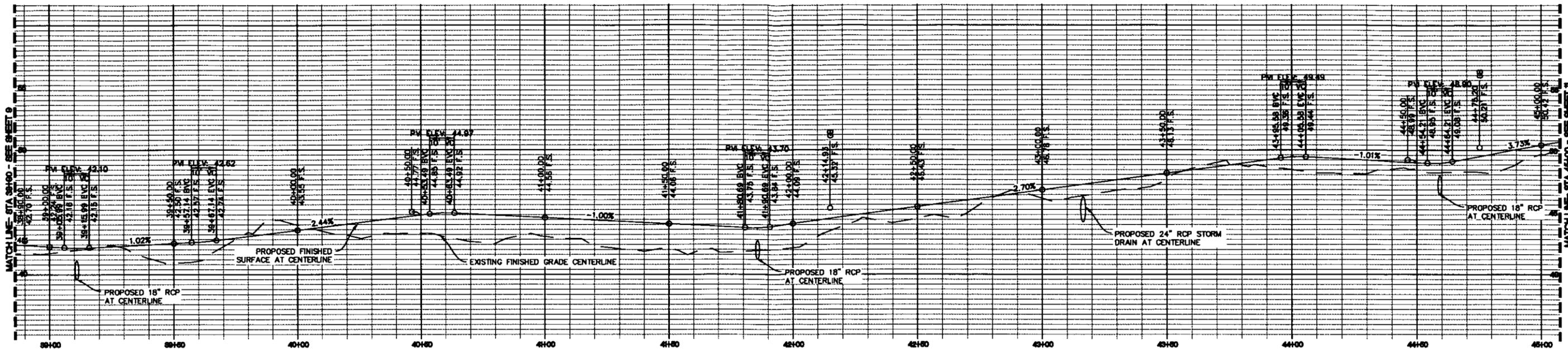
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 9 OF 115 SHEETS		I.O. NO. 24008022 PROJECT NO. 492895
FOR CITY ENGINEER	DATE	V.T.M.
DESCRIPTION BY	APPROVED DATE FILMED	
ORIGINAL RE		
AS-BUILTS		1878-6261 NAD83 COORDINATES
CONTRACTOR	DATE STARTED	236-1701 LAMBERT COORDINATES
INSPECTOR	DATE COMPLETED	39517- 9 -D



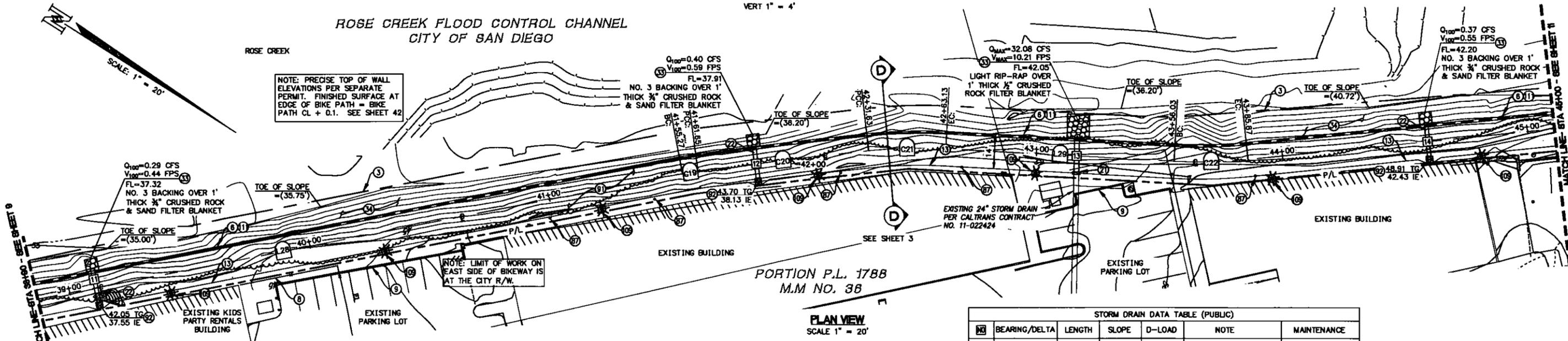
Civil Engineering
Surveying
Land Planning
T (658) 292-7770
4740 Ruffner Street
San Diego, CA 92111
nasland.com



LAWRENCE THORNBURGH R.C.E. NO. 48795 EMP. 09-30-18 DATE



ROSE CREEK FLOOD CONTROL CHANNEL
 CITY OF SAN DIEGO



NOTE: PRECISE TOP OF WALL ELEVATIONS PER SEPARATE PERMIT. FINISHED SURFACE AT EDGE OF BIKE PATH = BIKE PATH CL + 0.1. SEE SHEET 42

NOTE: LIMIT OF WORK ON EAST SIDE OF BIKEWAY IS AT THE CITY R/W.

CONSTRUCTION NOTES:

- ③ LIMITS OF WORK AREA. NO CONSTRUCTION ACTIVITIES BEYOND THIS POINT.
- ④ INSTALL RAILING ALONG EDGE OF PATH.
- ⑤ EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
- ⑥ EXISTING CURB TO REMAIN AND BE PROTECTED IN PLACE.
- ⑦ CONSTRUCT PCC RETAINING WALL (CALTRANS TYPE 1A). SEE SHEETS 37-45 FOR ADDITIONAL INFORMATION.
- ⑧ CONSTRUCT 6" CURB PER SDG-150.
- ⑨ EXTEND EXISTING STORM DRAIN OUTLET THROUGH BICYCLE FACILITY WITH PIPE COLLAR PER RSD D-62. GROUT TO PROVIDE WATER TIGHT CONNECTION. SEE SHEET 57 FOR STORM DRAIN PROFILE.
- ⑩ INSTALL 18" RCP IN STRUCTURE FOR DRAINAGE. INSTALL 5'X5' ENERGY DISSIPATOR AT OUTLET. SEE SHEET 57 FOR STORM DRAIN PROFILES.
- ⑪ EXISTING LIGHT TO REMAIN.
- ⑫ INSTALL RIP-RAP ENERGY DISSIPATOR. CONTRACTOR TO GROUT RIP-RAP.
- ⑬ REPLACE ALL EXISTING CONCRETE ROCK SLOPE PROTECTION DISTURBED BY CONSTRUCTION. COVER WITH 6" SOIL FOR RE-VEGETATION.
- ⑭ EXISTING ROOF DRAIN TO BE TRIMMED IF OUTLET IS WITHIN BIKEWAY FACILITY.
- ⑮ CONSTRUCT 4" AC/8" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
- ⑯ INSTALL 18" X 18" TYPE I GRATED CATCH BASIN PER RSD D-29. SEE DETAIL ON SHEET 3 FOR ADDITIONAL INFORMATION.
- ⑰ PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
- ⑱ PROPOSED EARTH RETAINING SYSTEM PER CALTRANS PRE-APPROVED MATERIAL LIST. SEE SHEETS 37 THROUGH 45 FOR ADDITIONAL INFORMATION.

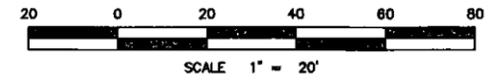
BIKE PATH CENTERLINE DATA TABLE

NO	BEARING/Delta	RADIUS	LENGTH	NOTE
L27	N42°36'22"W		128.62	4" AC/12" CLASS 2 BASE
L28	N40°51'56"W		329.00	4" AC/12" CLASS 2 BASE
C18	S25°05'	107.00	6.38	4" AC/12" CLASS 2 BASE
C20	S22°26'	2918.00	69.97	4" AC/12" CLASS 2 BASE
C21	S09°41'	197.00	31.50	4" AC/12" CLASS 2 BASE
L29	N26°54'44"W		92.90	4" AC/12" CLASS 2 BASE

* INDICATES THAT LINE OR CURVE RUNS THROUGH THE MATCHLINE

STORM DRAIN DATA TABLE (PUBLIC)

NO	BEARING/Delta	LENGTH	SLOPE	D-LOAD	NOTE	MAINTENANCE
11	S81°08'55"W	14.50'	1.5%	1350-D	18" RCP (STA 39+10.9)	CITY OF SAN DIEGO
12	S81°08'55"W	14.50'	1.5%	1350-D	18" RCP (STA 41+85.6)	CITY OF SAN DIEGO
13	S81°08'55"W	14.00'	2.34%	1350-D	24" RCP (STA 43+16.3)	CITY OF SAN DIEGO
14	S81°08'55"W	14.50'	1.5%	1350-D	18" RCP (STA 44+59.2)	CITY OF SAN DIEGO



Civil Engineering
 Surveying
 Land Planning

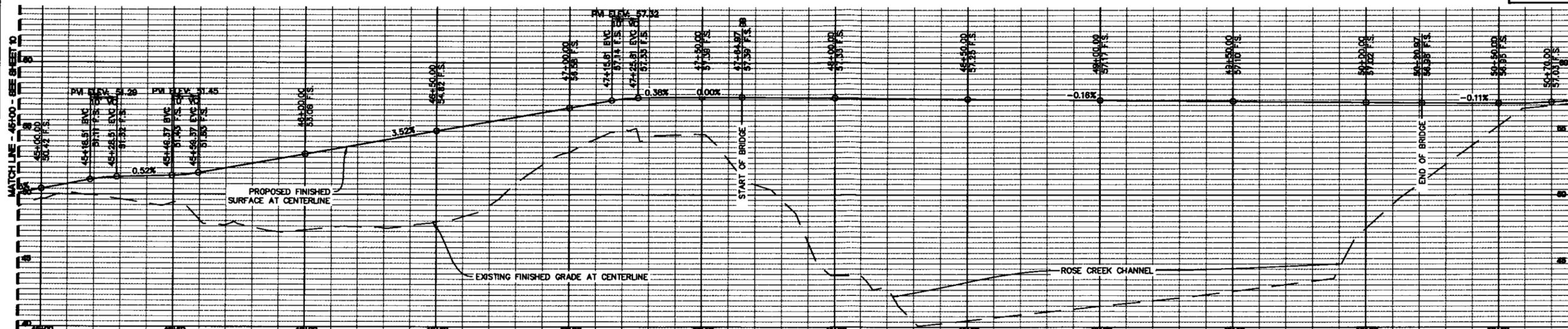
T (858) 292-7770
 4740 Ruffner Street
 San Diego, CA 92111
 nasland.com

LAWRENCE THORNBURGH R.C.E. NO. 49795 EXP. 09-30-18 DATE



IMPROVEMENT PLANS FOR:
COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT
 CLASS 1 BIKE PATH
 STA 38+90 TO STA 45+00

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 10 OF 115 SHEETS			I.O. NO. 24008022 PROJECT NO. 492889
FOR CITY ENGINEER	DATE	V.T.M.	
DESCRIPTION	BY	APPROVED	DATE FILMED
ORIGINAL	RE		
AS-BUILTS			1878-8281 NAD83 COORDINATES
CONTRACTOR			236-1701 LAMBERT COORDINATES
INSPECTOR	DATE STARTED	DATE COMPLETED	39517-10 -D



SEE SHEET 25 FOR
 CONTINUATION OF
 CENTERLINE PROFILE

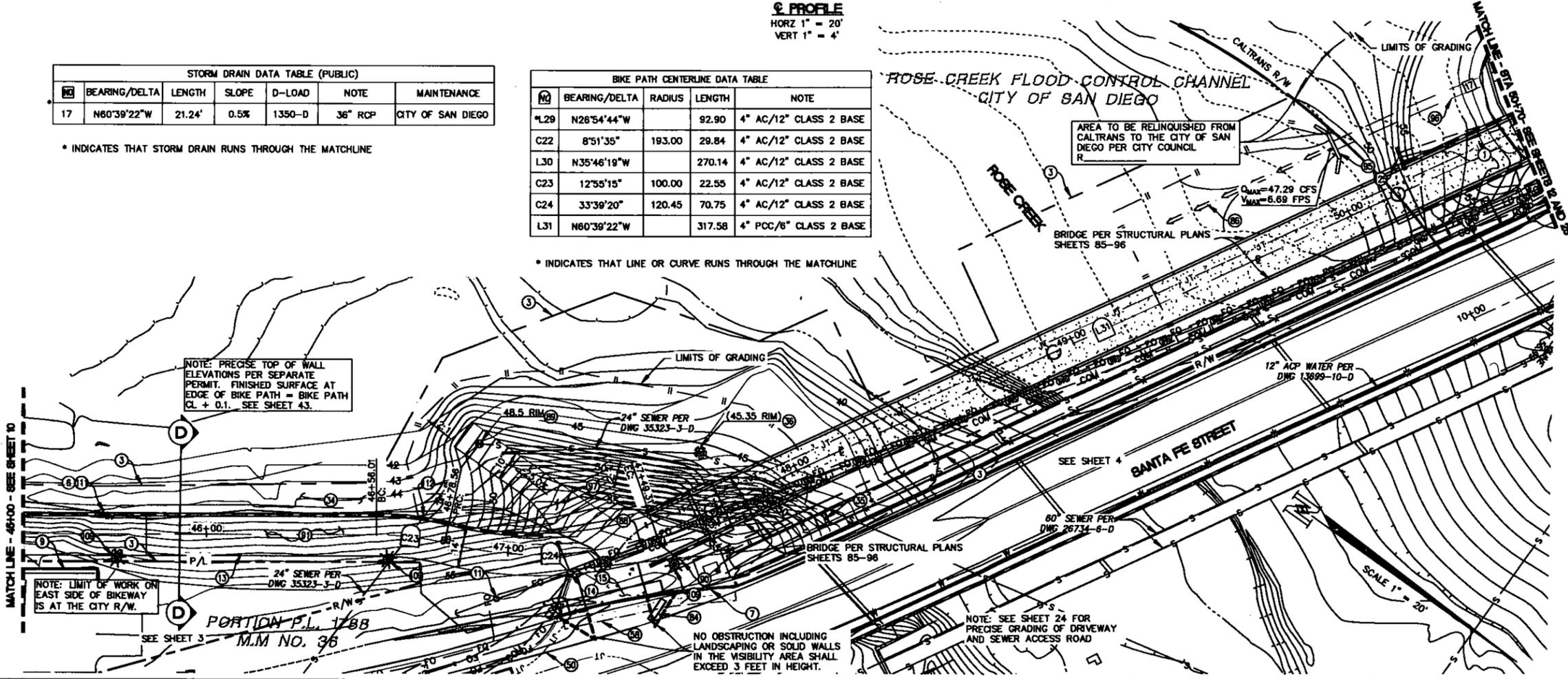
PROFILE
 HORIZ 1" = 20'
 VERT 1" = 4'

ID	BEARING/DELTA	LENGTH	SLOPE	D-LOAD	NOTE	MAINTENANCE
17	N60°39'22"W	21.24'	0.5%	1350-D	36" RCP	CITY OF SAN DIEGO

* INDICATES THAT STORM DRAIN RUNS THROUGH THE MATCHLINE

ID	BEARING/DELTA	RADIUS	LENGTH	NOTE
L29	N26°54'44"W	92.90	4" AC/12" CLASS 2 BASE	
C22	8°51'35"	193.00	4" AC/12" CLASS 2 BASE	
L30	N35°46'19"W	270.14	4" AC/12" CLASS 2 BASE	
C23	12°55'15"	100.00	4" AC/12" CLASS 2 BASE	
C24	33°39'20"	120.45	4" AC/12" CLASS 2 BASE	
L31	N60°39'22"W	317.58	4" PCC/6" CLASS 2 BASE	

* INDICATES THAT LINE OR CURVE RUNS THROUGH THE MATCHLINE



CONSTRUCTION NOTES:

- 1 CONSTRUCT 4" PCC/6" CLASS 2 BASE BIKE PATH PER CROSS SECTIONS. SEE SHEET 3.
- 2 LIMITS OF WORK AREA. NO CONSTRUCTION ACTIVITIES OUTSIDE OF THIS POINT.
- 3 INSTALL PEDESTRIAN PROTECTIVE RAILING PER SDG-118.
- 4 CONSTRUCT 6" CURB AND GUTTER PER SDG-151.
- 5 EXISTING CURB TO REMAIN AND BE PROTECTED IN PLACE.
- 6 EXISTING POWER POLE TO REMAIN AND BE PROTECTED IN PLACE.
- 7 CONSTRUCT 6" CURB PER SDG-150.
- 8 EXISTING POWER POLE TO BE RELOCATED BY SDGE PER CONSTRUCTION ORDER 2321278.
- 9 CONSTRUCT DRIVEWAY PER SDG-162 WITH MONOLITHIC CURB ALONG RAMP. REMOVE CONFLICTING AC DIKE.
- 10 EXISTING SEWER MANHOLE (ADJUST RIM TO GRADE).
- 11 RE-VEGETATION AREA.
- 12 EXISTING SEWER MANHOLE TO REMAIN AND BE PROTECTED IN PLACE.
- 13 PROPOSED JOINT TRENCH PER SDG NO 11.
- 14 SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING AC DIKE, LANDSCAPING AND INSTALL NEW PAVING PER SDG-113.
- 15 EXISTING SEWER VAULT TO REMAIN AND BE PROTECTED IN PLACE.
- 16 INSTALL BROW DITCH PER SDD-106.
- 17 EXISTING GATE TO BE REMOVED AND RELOCATED. SOUTH OF BIKE PATH AT TOP OF ACCESS ROAD.
- 18 EXISTING SEWER MANHOLE (ADJUST RIM TO GRADE).
- 19 EXISTING FENCE TO BE REMOVED.
- 20 CONSTRUCT 4" AC/6" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHT 3.
- 21 INSTALL WING HEADWALL PER RSD D-34.
- 22 INSTALL 36" RCP STORM DRAIN. SEE SHEET 57 FOR STORM DRAIN PROFILE.
- 23 EXISTING SEWER ACCESS ROAD TO BE GRADED PER SEWER DESIGN GUIDE. INSTALL DECOMPOSED GRANITE.
- 24 PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
- 25 PROPOSED EARTH RETAINING SYSTEM PER CALTRANS PRE-APPROVED MATERIAL LIST. SEE SHEETS 37 THROUGH 45 FOR ADDITIONAL INFORMATION.
- 26 PROPOSED PIPE SLEEVE UNDER RETAINING WALL CROSSING. SEE DETAIL ON SHEET 3.
- 27 REMOVE EXISTING STORM DRAIN, HEADWALL, AND CONCRETE DITCH.

**IMPROVEMENT PLANS FOR:
 COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT
 CLASS 1 BIKE PATH
 STA 45+00 TO STA 50+70**

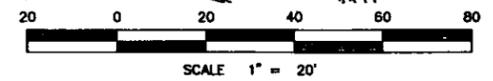
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 11 OF 115 SHEETS		I.O. NO. 24008022 PROJECT NO. 492888	V.T.M.
FOR CITY ENGINEER	DATE	DATE	DATE
DESCRIPTION	BY	APPROVED	FILED
ORIGINAL	RE		
AS-BUILTS			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		

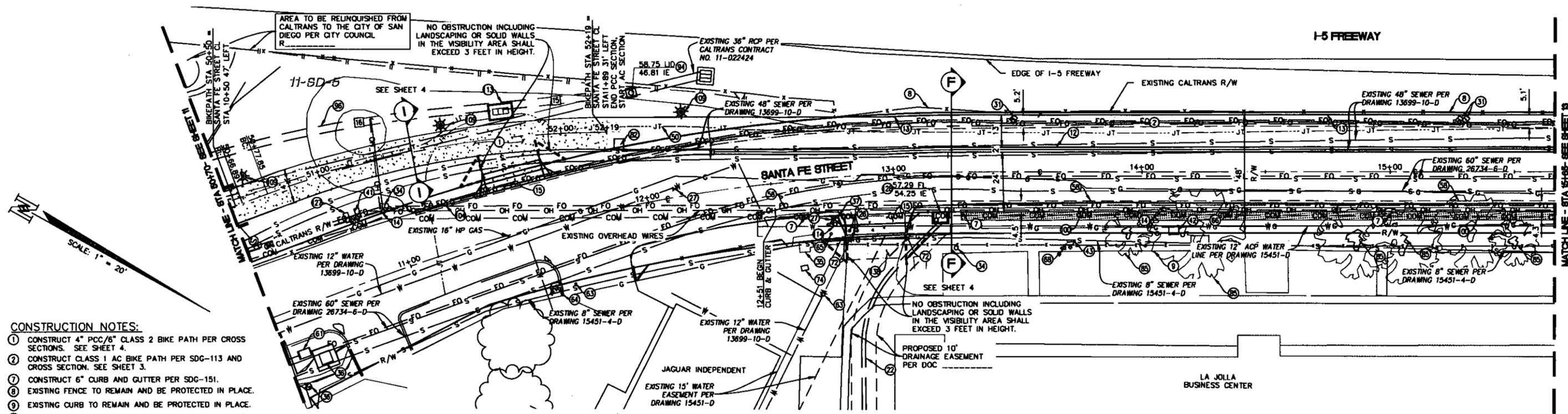


PLAN VIEW
 SCALE 1" = 20'



Civil Engineering
 Surveying
 Land Planning
 T (858) 292-7770
 4740 Ruffner Street
 San Diego, CA 92111
 nasland.com





- CONSTRUCTION NOTES:**
- 1 CONSTRUCT 4" PCC/6" CLASS 2 BIKE PATH PER CROSS SECTIONS. SEE SHEET 4.
 - 2 CONSTRUCT CLASS 1 AC BIKE PATH PER SDG-113 AND CROSS SECTION. SEE SHEET 3.
 - 7 CONSTRUCT 6" CURB AND GUTTER PER SDG-151.
 - 8 EXISTING FENCE TO REMAIN AND BE PROTECTED IN PLACE.
 - 9 EXISTING CURB TO REMAIN AND BE PROTECTED IN PLACE.
 - 12 CONSTRUCT 6" MODIFIED TYPE C ASPHALT DIKE WITH 2' OPENINGS EVERY 30' PER DETAIL SHEET 4.
 - 13 CONSTRUCT 6" CURB PER SDG-150.
 - 14 EXISTING POWER POLE TO BE RELOCATED BY SDGE. PER CONSTRUCTION ORDER 2321279.
 - 15 CONSTRUCT MODIFIED COMMERCIAL DRIVEWAY PER SDG-163 (SEE DETAIL SHEET 4 FOR ADDITIONAL INFORMATION). REMOVE CONFLICTING AC DIKE.
 - 22 INSTALL 18" RCP. SEE SHEET 58 FOR STORM RAIN PROFILE.
 - 26 EXISTING WATER VALVE (ADJUST RIM TO GRADE).
 - 27 EXISTING GAS VALVE (ADJUST RIM TO GRADE).
 - 31 EXISTING CALTRANS HAND HOLD BOX-ADJUST RIM.
 - 34 EXISTING ELECTRICAL PULL BOX TO BE RELOCATED PER SDGE CONSTRUCTION ORDER 2321279.
 - 35 EXISTING SDG&E TRANSFORMER TO REMAIN AND BE PROTECTED IN PLACE.
 - 36 EXISTING SEWER MANHOLE TO REMAIN AND BE PROTECTED IN PLACE.
 - 37 EXISTING WATER METER TO BE RELOCATED BEHIND CURB PER RSD WS-03 AND SDW-150.
 - 41 EXISTING ELECTRICAL PEDESTAL TO REMAIN AND BE PROTECTED IN PLACE.
 - 42 EXISTING UNDERGROUND SDG&E VAULT TO REMAIN AND BE PROTECTED IN PLACE.
 - 43 EXISTING BACK FLOW PREVENTION DEVICE TO REMAIN AND BE PROTECTED IN PLACE.
 - 50 PROPOSED JOINT TRENCH PER SDGE CONSTRUCTION ORDER 2321279.
 - 56 SAWCUT EXISTING PAVEMENT AND REMOVE EXISTING AC DIKE. LANDSCAPING AND INSTALL NEW PAVING PER SDG-113.
 - 61 EXISTING FIBER OPTIC UNDERGROUND VAULT TO REMAIN AND BE PROTECTED IN PLACE.
 - 63 EXISTING WATER VALVE TO REMAIN AND BE PROTECTED IN PLACE.
 - 64 EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED IN PLACE.
 - 65 EXISTING SEWER CLEANOUT TO REMAIN AND BE PROTECTED IN PLACE.
 - 66 EXISTING SEWER CLEANOUT TO REMAIN (ADJUST RIM TO GRADE).
 - 68 EXISTING WATER METER TO REMAIN AND BE PROTECTED IN PLACE.

- CONSTRUCTION NOTES (continued):**
- 72 EXISTING AC DIKE TO BE REMOVED. INSTALL TYPE A AC DIKE PER SAN DIEGO REGIONAL STANDARD DRAWING G-5.
 - 74 EXISTING IRRIGATION METER TO REMAIN AND BE PROTECTED IN PLACE.
 - 82 EXISTING SEWER VAULT (ADJUST RIM TO GRADE). IF NECESSARY, CONTRACTOR TO CREATE 3' BREAK IN CURB MEDIAN TO ALLOW FOR VAULT ACCESS.
 - 85 EXISTING TREE TO REMAIN AND BE PROTECTED IN PLACE.
 - 84 CONSTRUCT STORM DRAIN CLEANOUT - TYPE A PER SAN DIEGO STANDARD DRAWING D-9. EXISTING RCP STORM DRAIN DOWNSTREAM OF PROPOSED CLEANOUT TO BE REMOVED.
 - 96 INSTALL 36" RCP STORM DRAIN PER RSD SDD-110.
 - 98 CONSTRUCT 3' WIDE GREEN GUTTER PER DETAIL A SHEET 57.
 - 99 INSTALL TYPE A AC DIKE PER G-5.
 - 99 PROPOSED AMBER LED LUMINAIRE ON 15' TAPERED POLE. SEE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
 - 11 PROPOSED HAND HOLE PER SDGE CONSTRUCTION ORDER 2321279.
 - 14 PROPOSED WATER METER
 - 17 INSTALL ELECTRICAL PEDESTAL PANEL PER LIGHTING PLAN.
 - 28 INSTALL TYPE B CURB INLET PER SDD-166. SEE SHEET 58 FOR STORM DRAIN PLAN AND PROFILE.
 - 39 GRIND AND OVERLAY AC ON PRIVATE DRIVEWAY FOR SMOOTH TRANSITION.

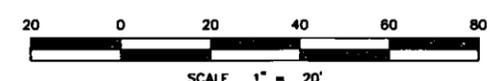
PLAN VIEW
 SCALE 1" = 20'

STORM DRAIN DATA TABLE (PUBLIC)

NO	BEARING/DELTA	RADIUS	LENGTH	SLOPE	D-LOAD	NOTE	MAINTENANCE
15	N46°12'37"W		80.70'	0.5%	1350-D	36" RCP	CITY OF SAN DIEGO
16	14°26'45"	500'	126.06'	0.5%	1350-D	36" RCP	CITY OF SAN DIEGO

BIKE PATH CENTERLINE DATA TABLE

NO	BEARING/DELTA	RADIUS	LENGTH	NOTE
L32	N60°40'29"W		10.96	4" PCC/6" CLASS 2 BASE
C25	20°10'07"	400.00	140.80	4" PCC/6" CLASS 2 BASE



Nasland
 Civil Engineering Surveying Land Planning
 T (858) 292-7770
 4740 Ruffner Street San Diego, CA 92111
 nasland.com



IMPROVEMENT PLANS FOR:
COASTAL RAIL TRAIL - ROSE CREEK BIKEWAY
 ROSE CREEK ALIGNMENT
 SANTA FE STREET
 STA 50+70 TO STA 15+65

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 12 OF 115 SHEETS		I.D. NO. 24008022 PROJECT NO. 492985
FOR CITY ENGINEER	DATE	V.T.M.
DESCRIPTION BY	APPROVED DATE FILMED	
ORIGINAL NE		
AS-BUILTS		1878- 6261 NAD83 COORDINATES 238-1701 LAMBERT COORDINATES
CONTRACTOR	DATE STARTED	39517- 12 -D
INSPECTOR	DATE COMPLETED	

**ATTACHMENT 4
MITIGATION LOCATION AND PLANS**

Figure 2 – Deer Canyon East Mitigation Site

Figure 3 – Existing Vegetation on Deer Canyon East

Figure 4 – Proposed Habitat Establishment at Deer Canyon East Mitigation Site

Figure 5 – Existing Topography and Proposed Habitats at Deer Canyon East Mitigation Site

Figure 6 – City of San Diego Open Space Trail and Proposed Trail Connection at Deer Canyon at Deer Canyon East Mitigation Site

Figure 1 – Barczewski Carmel Valley Mitigation Site Location Map

Figure 2 – Barczewski Carmel Valley Restoration Potential

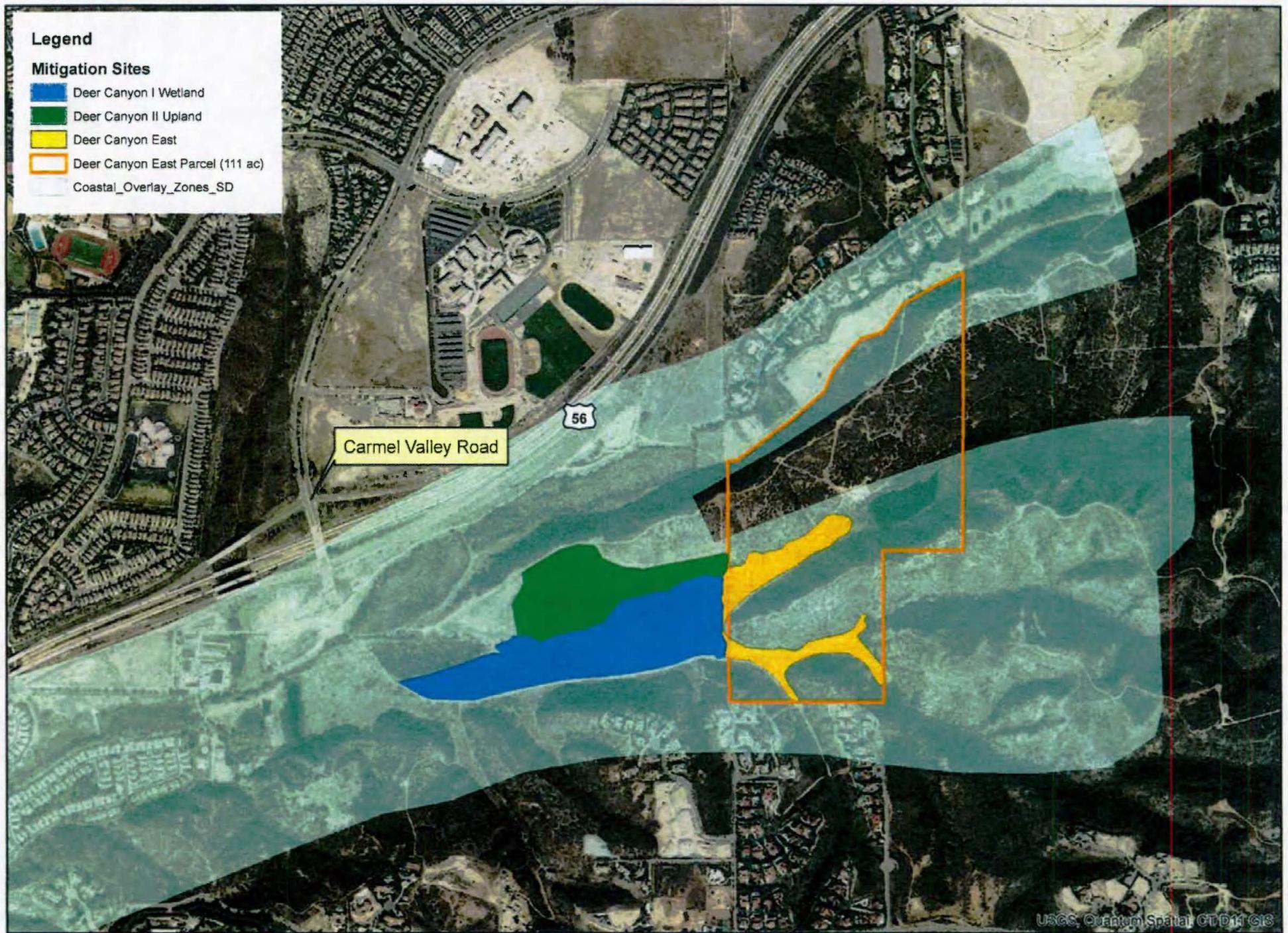


Figure 2. Deer Canyon East Mitigation Site Location



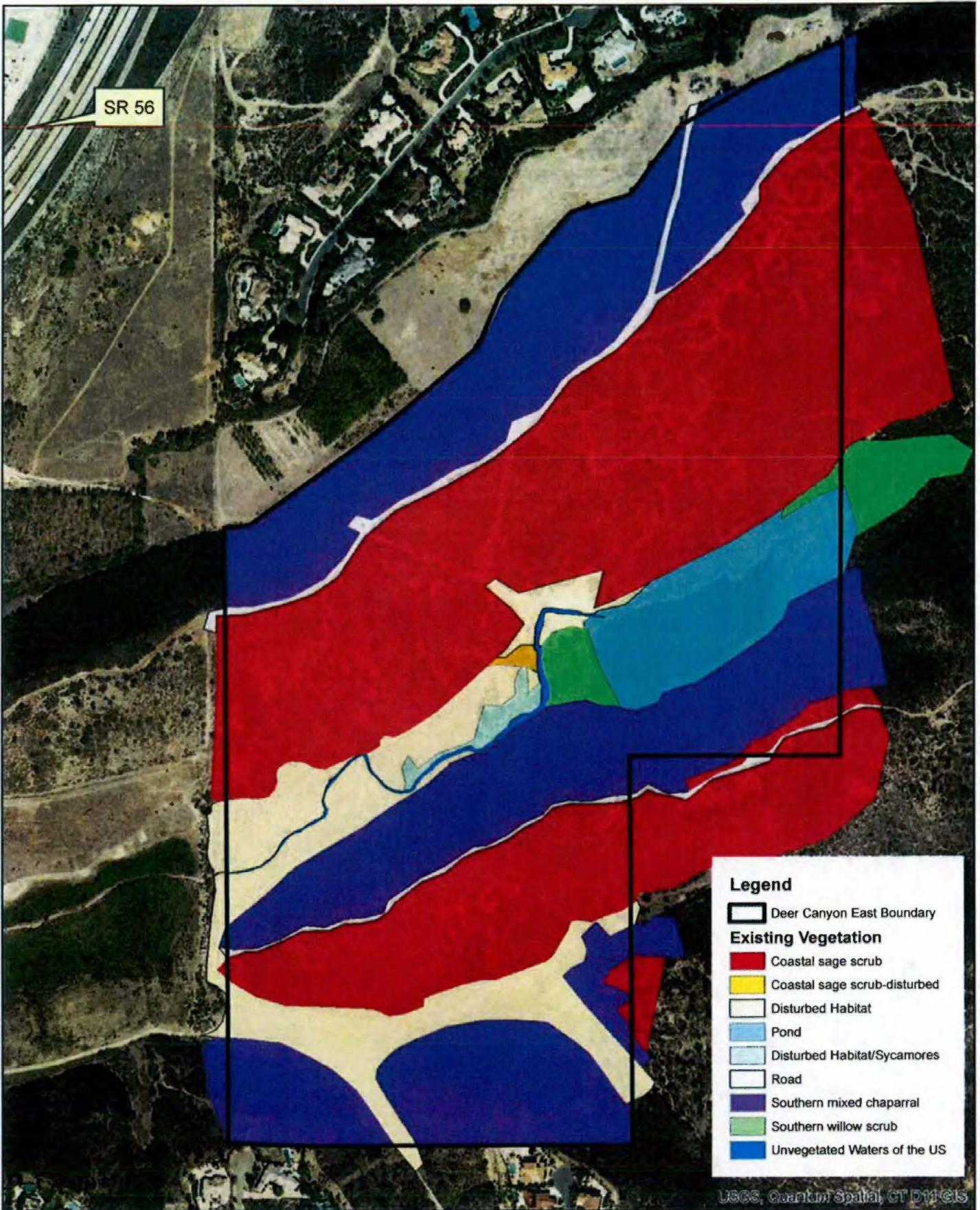


Figure 3. Existing Vegetation on Deer Canyon East



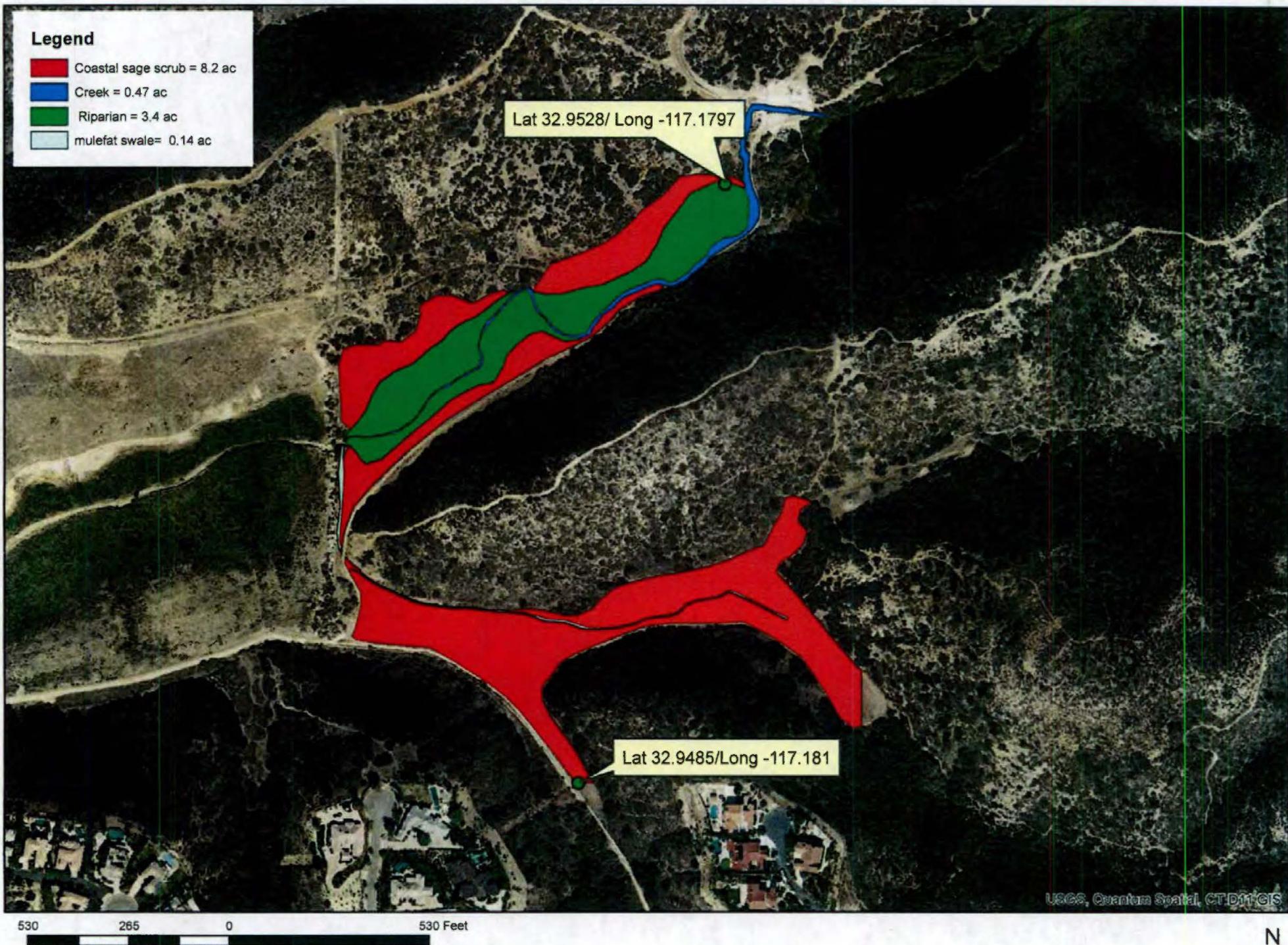


Figure 4. Proposed Habitat Establishment at Deer Canyon East Mitigation Site

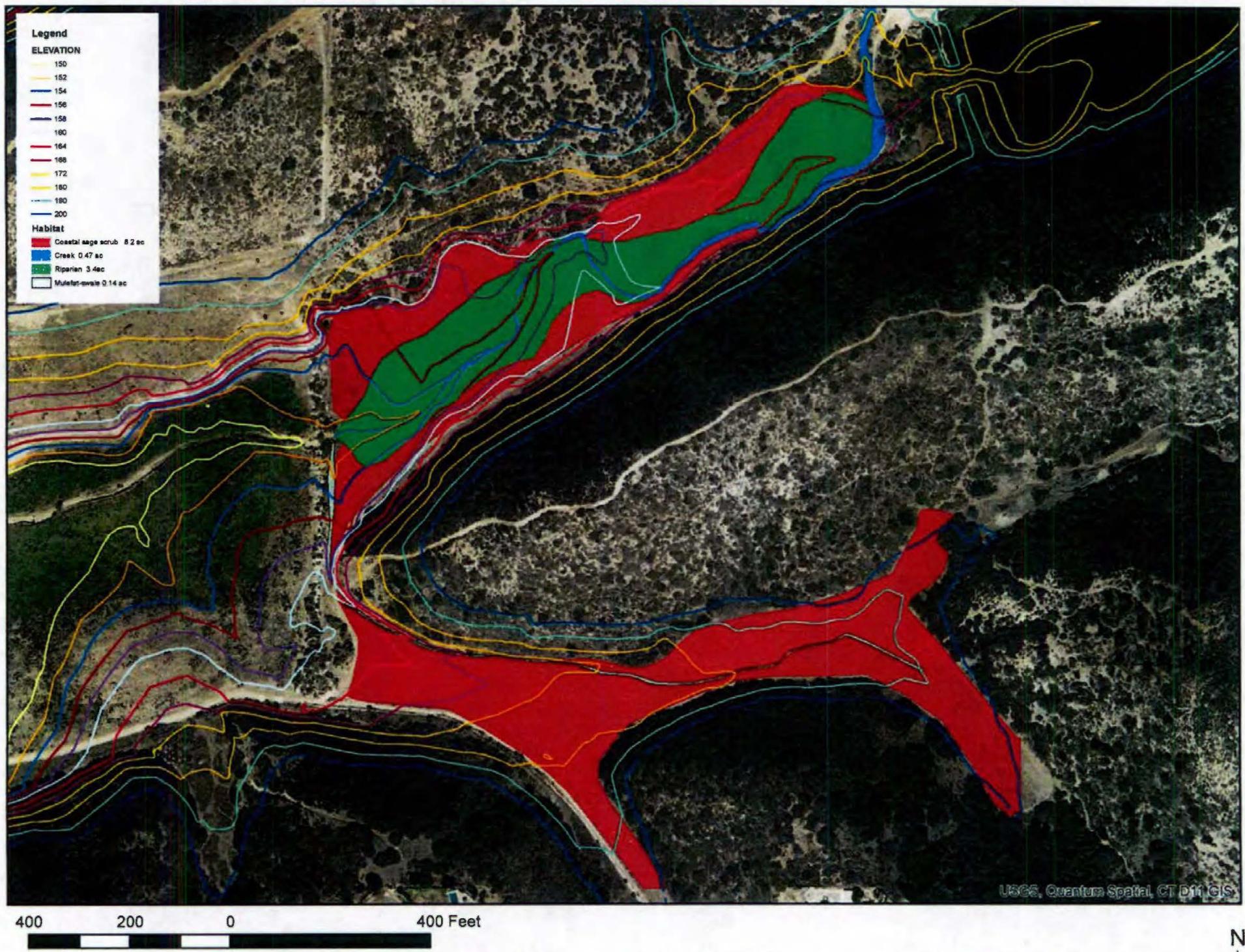
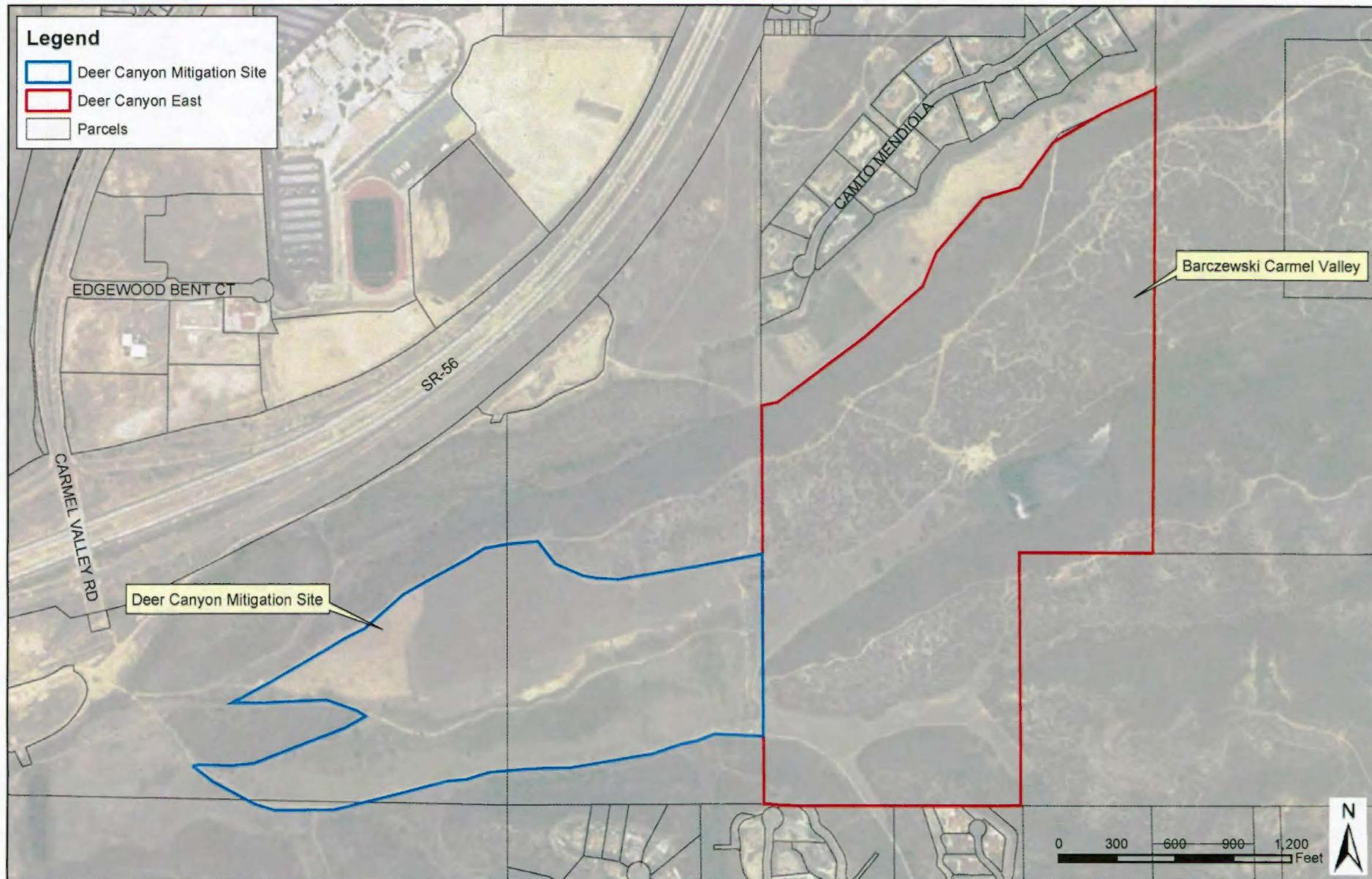


Figure 5. Existing Topography and Proposed Habitats at Deer Canyon East Mitigation Site



Figure 6. City of San Diego Open Space Trail and Proposed Trail Connection at Deer Canyon East Mitigation Site





SOURCE: SANDAG, 2017; SanGIS, 2017; Esri, 2017

3/14/17

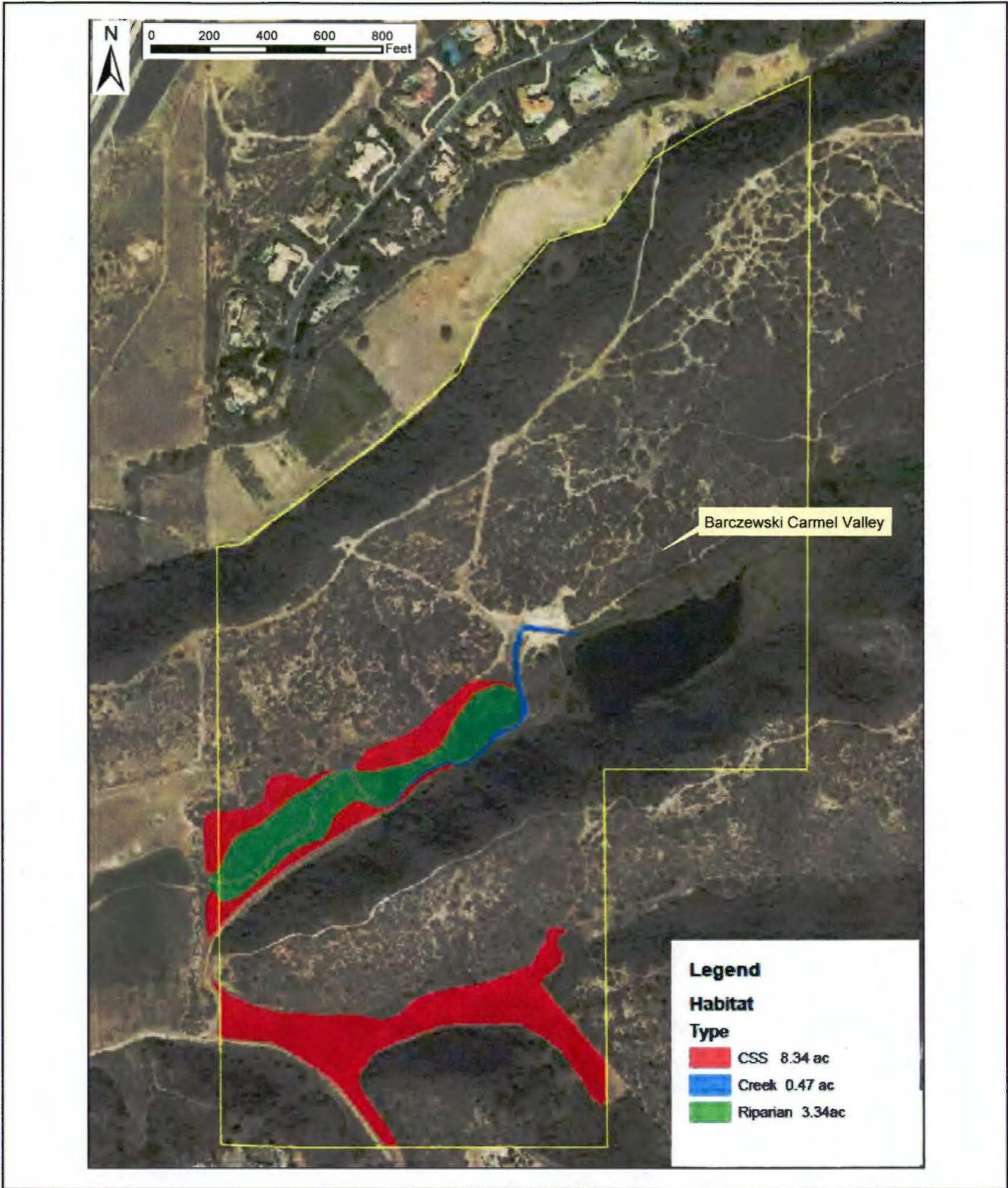


Rose Creek Bikeway

Barczewski Carmel Valley Mitigation Site Location Map

FIGURE

1



SOURCE: SANDAG, 2017

3/14/17

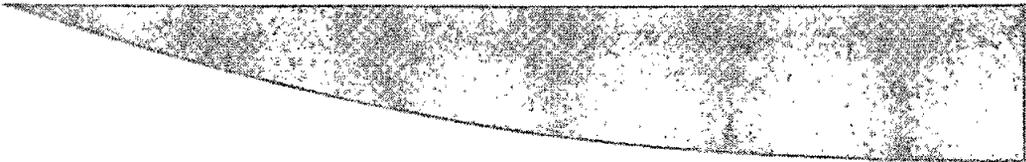


Rose Creek Bikeway
 Barczewski Carmel Valley
 Restoration Potential

FIGURE
 2

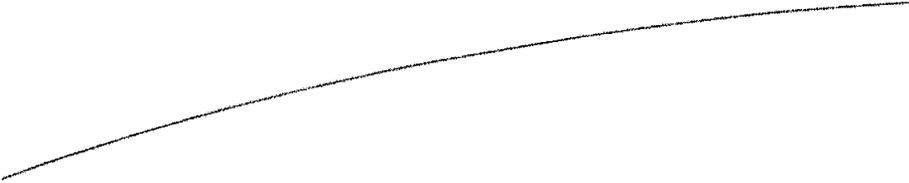
San Diego Association of Governments
Rose Creek Bikeway Project
Certification No. R9-2016-0222

ATTACHMENT 5
CEQA MITIGATION MONITORING AND REPORTING PROGRAM



Appendix J

MITIGATION MONITORING AND
REPORTING PROGRAM



Mitigation Monitoring and Reporting Program

The California Environmental Quality Act (CEQA; California Public Resources Code §21081.6) requires public agencies to adopt a monitoring and reporting program for the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects. In order to ensure implementation of the mitigation measures and design features identified in the Mitigated Negative Declaration (MND), SANDAG shall adopt a Mitigation Monitoring and Reporting Program (MMRP).

This MMRP identifies the mitigation measures and design features that shall be implemented by SANDAG as the responsible party and the timing of implementation. SANDAG may delegate the reporting or monitoring responsibilities identified below to another entity that accepts the delegation (such as a construction contractor). However, until the mitigation measures and design features included in the MMRP have been completed, SANDAG remains responsible for ensuring that implementation occurs in accordance with the adopted program (CEQA Guidelines §15097[a]).

Design Feature or Mitigation Measure	Timing	Responsible Party	Completed	Initials	Notes (Optional)
Biological Resources					
BIO-1. If vegetation removal occurs between February 15 and August 31, pre-construction gnatcatcher surveys, consisting of 3 surveys spaced one week apart, would be conducted prior to initiating clearing or grubbing activities within 300 feet of coastal sage scrub. Should nesting gnatcatchers be detected within 300 feet of the construction area, construction on or within 300 feet of the nest shall be postponed until after the young have fledged or the nest is no longer active.	Prior to construction within 300 feet of nesting gnatcatcher.	SANDAG	<input type="checkbox"/>	—	
BIO-2. If vegetation removal occurs between February 15 and September 15, pre-construction vireo surveys would be conducted prior to initiating clearing or grubbing activities. The survey would consist of 3 surveys spaced one week apart, with the final survey occurring within 3 days prior to initiating clearing or grubbing activities within 500 feet of riparian vegetation. Should nesting vireos be detected within 500 feet of the construction area, construction on or within 500 feet of the nest shall be postponed until after the young have fledged or the nest is no longer active.	Prior to construction within 500 feet of nesting least Bell's vireo.	SANDAG	<input type="checkbox"/>	—	
BIO-3. If vegetation removal occurs between February 15 and August 31, pre-construction yellow warbler surveys would be conducted prior to initiating clearing or grubbing activities. The survey would consist of 3 surveys spaced one week apart, with the final survey occurring within 3 days prior to initiating clearing or grubbing activities within 500 feet of riparian vegetation. Should nesting warblers be detected within 500 feet of the construction area, construction on or within 500 feet of the nest shall be postponed until after the young have fledged or the nest is no longer active.	Prior to construction within 300 feet of nesting yellow warbler.	SANDAG	<input type="checkbox"/>	—	
BIO-4. Temporary impacts to 0.62 acre of southern riparian forest shall be mitigated at a 1:1 ratio. Mitigation for temporary impact areas would occur either through restoration of impacted areas to their pre-impact contours and conditions, through habitat mitigation, or as determined through consultation with the Resource Agencies located in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.	Prior to clearing and grubbing southern riparian forest.	SANDAG	<input type="checkbox"/>	—	

Design Feature or Mitigation Measure	Timing	Responsible Party	Completed	Initials	Notes (Optional)
Biological Resources (cont.)					
<p>BIO-5. Permanent impacts to 0.40 acre of southern riparian forest shall be mitigated at a 3:1 ratio. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Final mitigation requirements for impacts to southern riparian forest would be determined in consultation with the Resource Agencies. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing southern riparian forest.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>_____</p>	
<p>BIO-6. Temporary impacts to 0.20 acre of southern willow scrub shall be mitigated at a 1:1 ratio. Mitigation for temporary impact areas would occur either through restoration of impacted areas to their pre-impact contours and conditions, through habitat mitigation, or as determined through consultation with the Resource Agencies located in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing southern willow scrub.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>_____</p>	
<p>BIO-7. Permanent impacts to 0.08 acre of southern willow scrub shall be mitigated at a 3:1 ratio. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Final mitigation requirements for impacts to southern willow would be determined in consultation with the Resource Agencies. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing southern willow scrub.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>_____</p>	

Design Feature or Mitigation Measure	Timing	Responsible Party	Completed	Initials	Notes (Optional)
Biological Resources (cont.)					
<p>BIO-8. Temporary impacts to 0.14 acre of freshwater marsh shall be mitigated at a 1:1 ratio. Mitigation for temporary impact areas would occur either through restoration of impacted areas to their pre-impact contours and conditions, through habitat mitigation, or as determined through consultation with the Resource Agencies located in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing freshwater marsh.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>—</p>	
<p>BIO-9. Permanent impacts to 0.04 acre of freshwater marsh shall be mitigated at a 3:1 ratio. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing freshwater marsh.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>—</p>	
<p>BIO-10. Temporary impacts to 0.10 acre of non-native riparian shall be mitigated at a 1:1 ratio with native riparian vegetation. Mitigation for temporary impact areas would occur either through restoration of impacted areas to their pre-impact contours and conditions, through habitat mitigation, or as determined through consultation with the Resource Agencies located in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing non-native riparian vegetation.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>—</p>	

Design Feature or Mitigation Measure	Timing	Responsible Party	Completed	Initials	Notes (Optional)
Biological Resources (cont.)					
<p>BIO-11. Permanent impacts to 0.04 acre of non-native riparian shall be mitigated at a 2:1 ratio with native riparian vegetation. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing non-native riparian vegetation.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>_____</p>	
<p>BIO-12. Temporary impacts to 0.36 acre of Diegan coastal sage scrub shall be mitigated at a 1:1 ratio. Mitigation for temporary impact areas would occur either through restoration of impacted areas to their pre-impact contours and conditions, through habitat mitigation, or as determined through consultation with the Resource Agencies located in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing Diegan coastal sage scrub.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>_____</p>	
<p>BIO-13. Permanent impacts to 0.15 acre of Diegan Coastal Sage Scrub shall be mitigated at a 1:1 ratio. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing Diegan coastal sage scrub.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>_____</p>	

Design Feature or Mitigation Measure	Timing	Responsible Party	Completed	Initials	Notes (Optional)
Biological Resources (cont.)					
<p>BIO-14. Permanent impacts to 0.15 acre of non-native grassland shall be mitigated at a 0.5:1 ratio. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing non-native grassland.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>—</p>	
<p>BIO-15. Temporary impacts to 0.31 acre of vegetated creek shall be mitigated at a 1:1 ratio. Mitigation for temporary impact areas would occur either through restoration of impacted areas to their pre-impact contours and conditions, through habitat mitigation, or as determined through consultation with the Resource Agencies located in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing vegetated creek.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>—</p>	
<p>BIO-16. Permanent impacts to 0.06 acre of vegetated creek shall be mitigated at a 3:1 ratio. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing vegetated creek.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>—</p>	
<p>BIO-17. Permanent impacts to 0.02 acre of unvegetated creek shall be mitigated at a 1:1 ratio. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	<p>Prior to clearing and grubbing unvegetated creek.</p>	<p>SANDAG</p>	<p><input type="checkbox"/></p>	<p>—</p>	

Design Feature or Mitigation Measure	Timing	Responsible Party	Completed	Initials	Notes (Optional)
Biological Resources (cont.)					
<p>BIO-18. Permanent impacts to 0.02 acre of streambed shall be mitigated at a 1:1 ratio. Mitigation for permanent impacts would occur through on- and/or off-site restoration, enhancement, and/or establishment/re-establishment with an establishment/re-establishment ratio of 1:1, or purchase of credits at an approved mitigation bank. Off-site mitigation would occur in the Rose Creek Watershed through sites identified in the Rose Creek Watershed Wetland, Riparian and Water Quality Restoration Opportunities Analysis (2012), and/or another approved mitigation site, in consultation with the resource agencies.</p>	Prior to clearing and grubbing streambed.	SANDAG	<input type="checkbox"/>	_____	
<p>BIO-19. If vegetation removal occurs between February 15 and September 15, a pre-construction survey must be completed prior to vegetation removal to determine the presence and/or absence of nesting birds within the project site. The results must be submitted to SANDAG for review and approval prior to initiating any vegetation removal. If any active nests are detected, the area will be flagged and mapped on construction plans along with a 300-foot buffer, or as recommended by the qualified biologist. The buffer area(s) established by the qualified biologist will be avoided until the nesting cycle is complete or it is determined that the nest has failed.</p>	Prior to clearing and grubbing vegetation.	SANDAG	<input type="checkbox"/>	_____	
Cultural Resources					
<p>CUL-1. A qualified archaeologist and Native American representative shall be retained, and shall be present during any excavation of native soils within the project area located southwest of I-5 to the existing Rose Creek Bikeway. If buried cultural resources are encountered during construction, work shall stop within a 50-foot radius of the area where the resources were discovered and the archaeologist and Native American representative shall be notified. The archaeologist and Native American representative shall evaluate the significance of the discovery and identify mitigation if the resource is determined to be significant. Trenching, excavation, grading, and/or other activities with the potential to adversely affect the discovery shall not resume in the 50-foot radius of the area of discovery until all mitigation has been satisfied. If the discovery is not significant, the archaeologist will confirm this conclusion in writing to SANDAG. The contractor will not resume activities in the 50-foot radius until notified in writing by SANDAG Environmental.</p>	Prior to construction/ During construction	SANDAG	<input type="checkbox"/>	_____	

Design Feature or Mitigation Measure	Timing	Responsible Party	Completed	Initials	Notes (Optional)
Cultural Resources (cont.)					
<p>CUL-2. If human remains are discovered, including those interred outside of formal cemeteries, all work in the area of discovery shall cease, and the procedures required by state law shall be followed (PRC §5097.98, Health and Safety Code [HSC] §7050.5). Further disturbances and activities shall cease in any area or nearby area suspected to overlie remains, and the county coroner shall be contacted (HSC §7050.5). If such a discovery occurs, a temporary construction exclusion zone shall be established surrounding the area of the discovery so that the area would be protected, and consultation and treatment would occur as prescribed by law. If the coroner recognizes the remains to be Native American, the coroner shall notify the Native American Heritage Commission who will then notify the Most Likely Descendent (PRC §5097.98). If Native American remains are discovered, the remains shall be kept in situ, or in a secure location in close proximity to where they were found, and the analysis of the remains shall only occur on site in the presence of a Native American monitor. Further provisions of PRC 5097.98 shall be followed as applicable.</p>	During construction	SANDAG	□	—	
Hazards and Hazardous Materials					
<p>HAZ-1. Soils excavated up to a depth of 30 inches at and between the locations of RCB-004 to RCB-024 shall be disposed of at a Class I or Class II facility, provided that site-specific disposal facility requirements are satisfied.</p>	During construction	SANDAG	□	—	