



EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

California Regional Water Quality Control Board, San Diego Region

June 11, 2013

In reply refer to:
738365: amonji

Mr. Jerry Backoff
City of San Marcos
1 Civic Center Drive
San Marcos, CA 92069

Subject: Amendment No.1 to Water Quality Certification No. 09C-041 for the Borden Road and Bridge Project

Mr. Backoff:

You will find enclosed the Amendment No. 1 to Clean Water Act Section 401 Water Quality Certification No. 09C-041 (Certification Amendment) for the Borden Road and Bridge Project (Project). The Certification Amendment shows changes in redline/strikeout format to indicate added and removed language. Water Quality Certification No. 09C-041 has also been enclosed for your reference.

On June 3, 2011, the original Certification was issued to the City of San Marcos for the Project. By communication dated September 21, 2012, the U.S. Army Corps of Engineers requested the Certification be amended to clarify the need for a preservation mechanism in areas not under the City of San Marcos control.

Based on the amendment request, the San Diego Water Board is amending the Certification to revise the requirement for a conservation easement. All other conditions in the Certification remain unchanged.

Any petition for reconsideration of this amended Certification must be filed with the State Water Resources Control Board (State Board) within 30 days of certification action (23 CCR § 3867). If a petition is not filed with the State Board within 30 days, City of San Marcos will have accepted the changes to Certification No. 09C-041 and must comply with all the certification conditions. Failure to comply with all conditions of this Certification may result in enforcement actions against the City of San Marcos.

In the subject line of any response, please include the reference number 738365:amonji. For questions or comments, please contact Alan Monji by phone at (858) 637-7140, or by email at amonji@waterboards.ca.gov.

Respectfully,



David W. Gibson,
Executive Officer
Regional Water Quality Control Board

DG:js:db:kdd:atm

Enclosures:

Amendment No. 1 to Clean Water Act Section 401 Water Quality Certification No. 09C-041.

Clean Water Act Section 401 Water Quality Certification No. 09C-041 for the Borden Road and Bridge Project, with attachments.

Electronic mail dated March 1, 2013 from U.S. Army Corps of Engineers requesting the San Diego Water Board amend the Borden Road and Bridge Project, Water Quality Certification 09C-041.

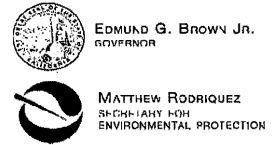
cc: (via email)

Richard Van Sant
US Army Corps of Engineers
Richard.J.Vansant@usace.army.mil

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

U.S. EPA, OWOW, Region 9
75 Hawthorne St.
San Francisco, CA 94105
R9-WTR8-Mailbox@epa.gov

Tech Staff Info & Use	
File No.	09C-041
WDID	9 000001931
Reg. Measure ID	366145
Place ID	738365
Party ID	369584



California Regional Water Quality Control Board, San Diego Region

Amendment No. 1 to Clean Water Act Section 401
Water Quality Certification No. 09C-041

PROJECT: Borden Road and Bridge Project Water Quality Certification No. 09C-041

APPLICANT: City of San Marcos
Attention: Mr. Jerry Backoff
1 Civic Center Drive
San Marcos, CA 92069

Table with 2 columns: Field Name and Value. Fields include WDID, CIWQS, Party No., Place No., and Reg. M. No.

The following changes have been made to Clean Water Act Section 401 Water Quality Certification No. 09C-041, Borden Road and Bridge Project. Changes below are shown in redline/strikeout format to indicate added and removed language.

1. Page 12, COMPENSATORY MITIGATION FOR THE LOSS OF WATERS OF THE UNITED STATES/STATE, PROVISION E.14 has been modified as follows

Prior to the start of construction, the City of San Marcos must provide the San Diego Water Board a draft preservation mechanism (e.g. deed restriction, conservation easement, etc.) that will protect all mitigation areas and their buffers in perpetuity. Within one year of the issuance of this Certification, the City of San Marcos must submit proof of a completed preservation mechanism that will protect all mitigation areas under the City of San Marcos's control and their buffers in perpetuity. A preservation mechanism is not required for the 0.267 acres of enhancement area not under the control of the City of San Marcos. Construction of the site must not be initiated until a completed preservation mechanism is received. The conservation easement, deed restriction, or other legal limitation on the mitigation property must be adequate to demonstrate that the site will be maintained without future development or encroachment on the site which could otherwise reduce the functions and values of the site for the variety of beneficial uses of waters of the U.S. 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 site. The preservation mechanism must clearly

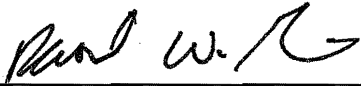
TOMAS MORALES, CHAIR | DAVID GIBSON, EXECUTIVE OFFICER

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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.

I, David W. Gibson, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Amendment No.1 to Certification No. 09C-041 issued on June 11, 2013.



David W. Gibson
Executive Officer
Regional Water Quality Control Board

11 June 2013

Date



California Regional Water Quality Control Board

San Diego Region



Linda S. Adams
Acting Secretary for
Environmental Protection

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Governor

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

PROJECT: Borden Road and Bridge Project,
Certification Number (09C-041),
WDID: 9 000001931

APPLICANT: Jerry Backoff, Planning Division Director
City of San Marcos
1 Civic Center Drive
San Marcos, CA 92069

CIWQS Reg. Meas. ID: 366145 Place ID: 738365 Party ID: 369584
--

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

PROJECT DESCRIPTION:

This project will construct a segment of Borden Road over a tributary to San Marcos Creek (Creek) between Twin Oaks Valley Road and Woodward Street, a distance of approximately 700 feet, within the City of San Marcos. The completion of this segment of Borden Road will require the construction of a pre-cast concrete bridge with two 100-foot spans reaching a height of 6 to 9-feet over the Creek and the associated 100-year floodplain, with four traffic lanes, two 5-foot wide shoulders/bike lanes, a 7 1/2 to 10 foot-wide equestrian/multi-use trail, and reconfiguration of the Borden Road/Twin Oaks Valley Road and Borden Road/Woodward Street intersections. A culvert is proposed to replace an existing open drainage channel that conveys water from Twin Oaks Valley Road to the Creek within the proposed roadway alignment. Rip-rap will be placed on either side of the Creek to protect the bridge structure from erosion. Approximately 0.096-acre of rip-rap will be placed on the east side of the Creek, and 0.175-acre of rip-rap will be placed on the west side of the Creek. Both bridge abutments

California Environmental Protection Agency

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and the central piers will be located outside the Creek and associated riparian vegetation. The project will result in permanent discharges to 0.234 acre (294 linear feet) wetland and/or riparian habitat and 0.079-acre (235 linear feet) of non-wetland waters of the United States and/or State, and 0.185-acre (142 linear feet) of temporary impacts to wetland and/or riparian habitat waters of the United States and/or State. Mitigation is onsite and consists of 1.314 acres of establishment and 0.483 acres of enhancement.

STANDARD CONDITIONS:

The following three standard conditions apply to all Certification actions, except as noted under Condition 3 for denials (Action 3).

1. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the California Water Code and section 3867 of Title 23 of the California Code of Regulations (23 CCR).
2. This Certification action is not intended and must not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to 23 CCR subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
3. The validity of any non-denial Certification action (Actions 1 and 2) must be conditioned upon total payment of the full fee required under 23 CCR section 3833, unless otherwise stated in writing by the certifying agency.

ADDITIONAL CONDITIONS:

In addition to the three standard conditions, the City of San Marcos must satisfy the following:

A. GENERAL CONDITIONS:

1. Water Quality Certification No. 09C-041 (Certification) is only valid if the project begins no later than 5 (five) years from the date of issuance. If the project has not begun within 5 years from the date of issuance, then this Certification expires.
2. The City of San Marcos must, at all times, fully comply with the engineering plans, specifications and technical reports submitted to the California Regional Water Quality Control Board, San Diego Region (San Diego Water

Board), to support this Certification and all subsequent submittals required as part of this Certification and as described in Attachment 1. The conditions within this Certification must supersede conflicting provisions within such plans submitted prior to the Certification action. Any modifications thereto, would require notification to the San Diego Water Board and reevaluation for individual Waste Discharge Requirements and/or Certification amendment.

3. During construction, the City of San Marcos must maintain a copy of this Certification at the project site so as to be available at all times to site personnel and agencies.
4. The City of San Marcos must permit the San Diego Water Board or its authorized representative at all times, upon presentation of credentials:
 - a. Entry onto project premises, including all areas on which wetland fill or wetland mitigation is located or in which records are kept.
 - b. Access to copy any records required to be kept under the terms and conditions of this Certification.
 - c. Inspection of any treatment equipment, monitoring equipment, or monitoring method required by this Certification.
 - d. Sampling of any discharge or surface water covered by this Order.
5. The City of San Marcos must report to the San Diego Water Board any noncompliance which may endanger human health or the environment. Any information shall be provided orally **within 24 hours** from the time the City of San Marcos becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the City of San Marcos becomes aware of the circumstances. The written submission shall contain a written description of the incident and its cause, the period of the noncompliance including exact dates and times, and if the 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 reoccurrence of the noncompliance. The San Diego Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours.
6. The City of San Marcos must, at all times, maintain appropriate types and sufficient quantities of materials onsite 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.
7. This Certification is not transferable in its entirety or in part to any person except after notice to the Executive Officer of the San Diego Water Board in accordance with the following terms.

- a. **Transfer of Property Ownership:** The City of San Marcos 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 City of San Marcos 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 Executive Officer of the San Diego Water Board **within 10 days** of the transfer of ownership.
 - b. **Transfer of Mitigation Responsibility:** Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in this Certification shall include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the San Diego Water Board **within 10 days** of the transfer date.
 - c. **Transfer of Post-Construction BMP Maintenance Responsibility:** The City of San Marcos 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 City of San Marcos 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. 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.
8. Upon properly noticed transfers of responsibility, the transferee assumes responsibility for compliance with this Certification and references in this Certification to the City of San Marcos will be interpreted to refer to the transferee as appropriate. Transfer of responsibility does not automatically relieve the City of San Marcos of this Certification in the event that a transferee fails to comply.
 9. In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation must be subject to any remedies, penalties, process or sanctions as provided for under State law.

For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.

10. In response to a suspected violation of any condition of this Certification, the San Diego Water Board may, pursuant to Water Code sections 13267 and 13383, require the holder of any permit or license subject to this Certification to investigate, monitor, and report information on the violation. The only restriction is that the burden, including costs of the reports, must bear a reasonable relationship to the need for, and the benefits to be obtained from, the reports.
11. In response to any violation of the conditions of this Certification, the San Diego Water Board may add to or modify the conditions of this Certification as appropriate to ensure compliance.
12. The City of San Marcos must submit annual progress reports describing status of compliance with all requirements of this Certification to the San Diego Water Board prior to **August 1** of each year following the issuance of this Certification until the project has reached completion.
13. The City of San Marcos shall submit a **Final Project Annual Report** to the San Diego Water Board **within 30 days of completion of the project and any associated monitoring**. The report should include as-built drawings no bigger than 11"X17" and photos of the completed project including post-construction BMPs.

B. PROJECT CONDITIONS:

1. Prior to the start of the project, and annually thereafter, the City of San Marcos must educate all personnel on the requirements in this Certification, pollution prevention measures, spill response, and BMP implementation and maintenance.
2. The City of San Marcos must comply with the requirements of State Water Resources Control Board 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*. These General Waste Discharge Requirements are accessible at: http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/general_orders/go_wdr401regulated_projects.pdf.

3. The City of San Marcos must notify the San Diego Water Board in writing at least **5 days** prior to the actual commencement of dredge, fill, and/or discharge activities.
4. The City of San Marcos must enroll in, and comply with the requirements of State Water Resources Control Board Water Quality Order No. 2009-0009-DWQ, the *NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities*.
5. The treatment, storage, and disposal of wastewater during the life of the project must be done in accordance with waste discharge requirements established by the San Diego Water Board pursuant to CWC § 13260.
6. Discharges of concentrated flow during construction or after completion must not cause downstream erosion or damage to properties or stream habitat.
7. 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 the State or placed in locations that may be subjected to storm flows. Pollutants discharged to areas within a stream diversion area must be removed at the end of each work day or sooner if rain is predicted.
8. All surface waters, including ponded waters, must be diverted away from areas undergoing 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 water quality objectives of the receiving waters. 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.
9. All areas that will be left in a rough graded state must be stabilized no later than one week after completion of grading. The City of San Marcos and subsequent owners, are responsible for implementing and maintaining BMPs to prevent erosion of the rough graded areas to prevent flow from this area from causing negative impacts to beneficial uses. After completion of grading, all areas must be revegetated with native species appropriate for the area. The revegetation palette must not contain any plants listed on the California Invasive Plant Council Invasive Plant Inventory, which can be found online at: <http://www.cal-ipc.org/ip/inventory/weedlist.php>.
10. Substances hazardous to aquatic life including, but not limited to, petroleum products, raw 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.

11. Removal of vegetation must occur by hand, mechanically, or using EPA approved herbicides deployed using applicable BMPs to prevent impacts to beneficial uses of waters of the State. Removal of vegetation must occur outside of the avian breeding season (March 15 through September 15).

C. RECEIVING WATER MONITORING:

1. Receiving Waters Monitoring Plan: The City of San Marcos shall develop and implement a five-year Receiving Waters Monitoring Plan to evaluate potential project impacts from pollutants/stressors¹ to the tributary to San Marcos Creek (HSA 904.51), San Marcos Creek (904.51) and Lake San Marcos (HSA 904.51) in the Batiquitos watershed. The Receiving Waters Monitoring Plan shall be developed and submitted to the San Diego Water Board for acceptance **prior to construction commencement**. The Receiving Waters Monitoring Plan shall assess conditions before, during, and after impacts have occurred by measuring changes in the benthic macroinvertebrate community and a functional assessment of the health of wetland and riparian habitats in the tributary to San Marcos Creek and San Marcos Creek. The five year receiving water monitoring will begin prior to the start of project construction, and the data and analysis shall be submitted **with the Annual Progress Reports** pursuant to Condition A.12 of this certification.
 - a. Benthic Macroinvertebrate Community Analysis: Bioassessment monitoring shall be performed using the professional-level non-point source protocol of the California Stream Bioassessment procedure² to assess effects of the project on the biological integrity of receiving waters. At a minimum, bioassessment monitoring shall be performed before project initiation, and three and five years following impacts to water of the United States/State at three sites (assessment stations) on the tributary to San Marcos Creek during the established "index period" for the Batiquitos watershed. The first assessment station is the reference station, which shall be located upstream of the discharge from the project site on the tributary to San Marcos Creek or in San Marcos Creek in a reference area; the second assessment station

¹ The tributary to San Marcos Creek (HSA 904.51) flows into San Marcos Creek (HSA 904.51). San Marcos Creek (HSA 904.5) is Clean Water Act, section 303(d) listed as impaired for sediment toxicity. San Marcos Creek (HSA 904.51) flows into Lake San Marcos (HSA 904.51). Lake San Marcos is section 303(d) listed as impaired for phosphorous.

² Copies of the California Stream Bioassessment Procedure can be obtained at <http://www.dfg.ca.gov/cabw/cabwhome.html>. Additional information on stream bioassessment may be obtained at <http://www.waterboards.ca.gov/sandiego/programs/bioassessment.html>

shall be located immediately upstream of the discharge from the project site on the tributary to San Marcos Creek; the third assessment station shall be located immediately downstream of the discharge from the project site on the tributary to San Marcos Creek. The reference station upstream of the project discharge shall be located and sampled concurrently with second and third assessment stations. The results of the Benthic Macroinvertebrate Community Analysis shall be submitted **with the respective Annual Progress Report** (see Condition A.12).

- b. **Health of Wetland and Riparian Habitats:** The City of San Marcos shall conduct a quantitative function-based assessment of the health of wetland and riparian habitats in the tributary to San Marcos Creek using the California Rapid Assessment Method (CRAM)³ at the three assessment stations described above (in section C.1.a, 'Benthic Macroinvertebrate Community Analysis'). The CRAM assessments should be conducted in conjunction with the benthic data schedule (prior to project construction, year 3, and year 5). The results of the CRAM assessment shall be submitted **with the first and last Annual Progress Report** (see Condition A.12).
2. Where procedures are not otherwise specified for the Receiving Water Quality Monitoring Program, sampling, analysis, and quality assurance/quality control shall be conducted in accordance with the Surface Water Ambient Monitoring Program (SWAMP) Quality Assurance Program Plan (QAPP)⁴ for the State of California's Surface Water Ambient Monitoring Program, adopted by the State Water Resources Control Board.
 3. Monitoring results shall be uploaded into California Environmental Data Exchange Network (CEDEN) (<http://www.ceden.org/>) within 60 days of annual report submittal.
 4. The San Diego Water Board may make revisions to the Receiving Water monitoring program at any time during the five year monitoring term, and may include a reduction or increase in the number of parameters to be monitored, locations monitored, the frequency of monitoring, or the number and size of samples collected.

³ Information on CRAM is available at the California Rapid Assessment Method homepage at <http://www.cramwetlands.org/>

⁴ The Quality Assurance Program Plan is available on the State Water Board's SWAMP website at http://www.waterboards.ca.gov/water_issues/programs/swamp/docs/qapp/qaprp082209.pdf

D. POST CONSTRUCTION STORM WATER MANAGEMENT

1. All storm drain inlet structures within the project boundaries must be stamped and/or stenciled (or equivalent) with appropriate language prohibiting non-storm water discharges.
2. The BMPs described in the *City of San Marcos, Improvement Plans for Borden Road*, prepared by the City of San Marcos Engineering Division, dated June 30, 2010 (see Attachment 5) must be installed and functional prior to occupancy and/or planned use of development areas. The post-construction BMPs must be installed and sized to comply with the following numeric sizing criteria and treat 100 percent of the impervious surfaces associated with the project:
 - a. Volume: Volume-based BMPs must be designed to mitigate (infiltrate, filter, or treat) either:
 - i. The volume of runoff produced from a 24-hour 85th percentile storm event, as determined from the local historical rainfall record (0.6 inch approximate average for the San Diego County area); or
 - ii. The volume of runoff, as determined from the local historical rainfall record, that achieves approximately the same reduction in pollutant loads and flows as achieved by mitigation of the 85th percentile 24-hour runoff event; or
 - b. Flow: Flow-based BMPs must be designed to mitigate (infiltrate, filter, or treat) either:
 - i. The maximum flow rate of runoff produced from a rainfall intensity of 0.2 inch of rainfall per hour; or
 - ii. The maximum flow rate of runoff produced by the 85th percentile hourly rainfall intensity, as determined from the local historical rainfall record, multiplied by a factor of two; or
 - iii. The maximum flow rate of runoff, as determined from the same reduction in pollutant loads and flows as achieved by mitigation of the 85th percentile hourly rainfall intensity multiplied by a factor of two.
3. The City of San Marcos or their designated party must inspect and maintain structural BMPs per the manufacturer's specifications in perpetuity.
4. Records must be kept regarding inspections and maintenance in order to assess the performance of the systems and determine whether adaptations are necessary to protect receiving waters.
5. A final storm water management plan that has been certified in compliance with local Standard Urban Stormwater Mitigation Plan (SUSMP) requirements

by the City of San Marcos storm water program manager must be submitted to the San Diego Water Board **prior to start of construction.**

E. COMPENSATORY MITIGATION FOR LOSS OF WATERS OF THE UNITED STATES/STATE

1. Mitigation for permanent discharges to 0.234 acre (294 linear feet) wetland and/or riparian habitat and 0.079-acre (235 linear feet) of non-wetland waters of the United States and/or State, and 0.185-acre (142 linear feet) of temporary impacts to wetland and/or riparian habitat waters of the United States and/or State must be achieved as described in the draft *Habitat Mitigation and Monitoring Plan for the Borden Road and Bridge Project, City of San Marcos, San Diego County, California (HMMP)* prepared by HDR Engineering, Inc. dated October 2010 (and any subsequent versions submitted to the San Diego Water Board for review). The total mitigation area encompasses 1.797 acres (see Attachment 4) on-site and must include:
 - a. Establishment of 0.465-acre of wetland in Wetland Creation Areas;
 - b. Enhancement of 0.216-acre of wetland (riparian scrub) under City control;
 - c. Enhancement of 0.267-acre of wetland (riparian scrub) not under City control;
 - d. Establishment of 0.385 acres in the Coastal Sage Scrub Buffer Area; and
 - e. Establishment of 0.464-acre of wetland (riparian scrub) in the Riparian Scrub Creation Area.
2. The City of San Marcos must restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge to waters of the United States and/or State. Restoration must include grading of disturbed areas to pre-project contours and revegetation with native species. The City of San Marcos must implement all necessary BMPs to control erosion and runoff from areas associated with this project.
3. The City of San Marcos must notify the San Diego Water Board in writing at **least 5 days prior** to the actual commencement of mitigation installation.
4. The City of San Marcos must salvage leaf litter, coarse woody debris, and upper soil horizons from impacted jurisdictional water sites that are relatively free of invasive exotic species for use in on-site mitigation areas; and salvage large cuttings from appropriate tree species if they exist at the impact site and use them as pole plantings at the mitigation site.

5. The City of San Marcos must submit a report (including topography maps and planting locations) to the San Diego Water Board **within the Mitigation Monitoring report (E.11)** describing as-built status of the mitigation project.
6. The construction of proposed mitigation must be concurrent with project grading and completed no later than 9 months following the initial discharge of dredge or fill material into on-site waters. Delays in implementing mitigation must be compensated for by an increased mitigation implementation of 10 percent of the cumulative compensatory mitigation for each month of delay.
7. Throughout the mitigation monitoring program mitigation areas must be maintained 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 onsite or offsite mitigation areas.
8. San Diego Water Board acceptance of the final mitigation plan applies only to the site and plan that mitigates for the Borden Road and Bridge Project and must not be construed as approval of the mitigation site or plan for use by other current or future projects that are planning to use the project site for mitigation.
9. Any maintenance activities that do not contribute to the success of the mitigation site and enhancement of beneficial uses and ecological functions and services are prohibited. Maintenance activities are 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 restoration program.
10. If at any time during the implementation and establishment of the mitigation area(s), and prior to verification of meeting success criteria, a catastrophic natural event (e.g., fire, flood) occurs and impacts the mitigation area, The City of San Marcos is responsible for repair and replanting of the damaged area(s).
11. A final version of the *Habitat Mitigation and Monitoring Plan for the Borden Road and Bridge Project* must be submitted to the San Diego Water Board prior to **prior to start of construction**.
12. Mitigation Monitoring Reports: Mitigation monitoring reports must be submitted annually until mitigation has been deemed successful. Annual monitoring reports must be submitted prior to **December 1** of each year. Monitoring reports must include, but not be limited to, the following:

- a. Names, qualifications, and affiliations of the persons contributing to the report;
 - b. Tables presenting the raw data collected in the field as well as analyses of the physical and biological data, including at a minimum;
 - c. Topographic complexity characteristics at each mitigation site;
 - d. Upstream and downstream habitat and hydrologic connectivity;
 - e. Source of hydrology;
 - f. Width of native vegetation buffer around the entire mitigation site;
 - g. Qualitative and quantitative comparisons of current mitigation conditions with pre-construction conditions and previous mitigation monitoring results;
 - h. Photo documentation from established reference points;
 - i. A survey report documenting boundaries of mitigation area; and
 - j. Other items specified in the final Habitat Mitigation and Monitoring Plan for the Borden Road and Bridge Project by HDR Engineering, Inc.
13. For the purpose of determining mitigation credit for the removal of exotic/invasive plant species, only the actual area occupied by exotic/invasive plant species must be quantified to comply with mitigation requirements.
14. **Prior to the start of construction**, the City of San Marcos must provide the San Diego Water Board a draft preservation mechanism (e.g. deed restriction, conservation easement, etc.) that will protect all mitigation areas and their buffers in perpetuity. **Within one year of the issuance of this Certification**, the City of San Marcos must submit proof of a completed preservation mechanism that will protect all mitigation areas and their buffers in perpetuity. Construction of the site must not be initiated until a completed preservation mechanism is received. The conservation easement, deed restriction, or other legal limitation on the mitigation property must be adequate to demonstrate that the site will be maintained without future development or encroachment on the site which could otherwise reduce the functions and values of the site for the variety of beneficial uses of waters of the U.S. 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 site. 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.

15. For purposes of this Certification, establishment is defined as the creation of vegetated or unvegetated waters of the United States/State where the resource has never previously existed (e.g. conversion of nonnative grassland to a freshwater marsh). Restoration is divided into two activities, re-establishment and rehabilitation. Re-establishment is defined as the return of natural/historic functions to a site where vegetated or unvegetated waters of the United States/State previously existed (e.g., removal of fill material to restore a drainage). Rehabilitation is defined as the improvement of the general suite of functions of degraded vegetated or unvegetated waters of the United States/State (e.g., removal of a heavy infestation or monoculture of exotic plant species from jurisdictional areas and replacing with native species). Enhancement is defined as the improvement to one or two functions of existing vegetated or unvegetated waters of the United States /State (e.g., removal of small patches of exotic plant species from an area containing predominantly natural plant species). Preservation is defined as the acquisition and legal protection from future impacts in perpetuity of existing vegetated or unvegetated waters of the United States/State (e.g., conservation easement).

F. STREAM PHOTO DOCUMENTATION PROCEDURE

1. The City of San Marcos must conduct photo documentation of the project site, including all areas of permanent and temporary impact, prior to and after project construction, and mitigation areas, including all areas of permanent and temporary impact, prior to and after project construction. Photo documentation must be conducted in accordance with the State Water Resources Control Board Standard Operating Procedure 4.2.1.4: Stream Photo Documentation Procedure, found at: http://www.waterboards.ca.gov/water_issues/programs/swamp/docs/cwt/guidance/4214.pdf. In addition, photo documentation must include Geographic Positioning System (GPS) coordinates for each of the photo points referenced. The City of San Marcos must submit this information in a photo documentation report to the San Diego Water Board **with the Mitigation Monitoring reports** (see Condition E.11). The report must include a compact disc that contains digital files of all the photos (jpeg file type or similar).

G. POST-CONSTRUCTION BEST MANAGEMENT PRACTICES PHOTO DOCUMENTATION

1. The City of San Marcos must conduct photo documentation of implemented post-construction BMPs. Photo-documentation must be modeled after the State Water Resources Control Board Standard Operating Procedure 4.2.1.4: Stream Photo Documentation Procedure. See Condition F.1 above for the link to the procedures. In addition, photo documentation must include Global

Positioning System (GPS) coordinates for each of the photo points referenced. The City of San Marcos must submit this information in a photo documentation report to the San Diego Water Board **with the Mitigation Monitoring reports** (see Condition E.11). The report must include a compact disc that contains digital files of all the photos (jpeg file type or similar).

H. GEOGRAPHIC INFORMATION SYSTEM REPORTING

The City of San Marcos must submit Geographic Information System (GIS) shape files of the impact and mitigation areas **within 1st Mitigation and Monitoring Report** (see Condition E.11) of mitigation installation. All impact and mitigation areas shapefiles 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.

I. REPORTING:

1. The submittal of information under this Certification is required pursuant to California Water Code (CWC) sections 13267 and 13383. Civil liability may be administratively imposed by the San Diego Water Board for failure to submit required information pursuant to CWC section 13268.
2. All reports and information submitted to the San Diego Water Board must be submitted in both hardcopy and electronic format. The preferred electronic format for each report submission is one file in PDF format that is also Optical Character Recognition (OCR) capable.
3. The City of San Marcos must submit a report to the San Diego Water Board within the Final Project Annual Report (see Condition A.12) of completion of the project. The report should include as-built drawings no bigger than 11" x 17" and photos of the completed project.
4. All applications, reports, or information submitted to the San Diego Water Board must be signed and certified as follows:
 - a. For a corporation, by a responsible corporate officer of at least the level of vice president.
 - b. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
 - c. For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.

5. A duly authorized representative of a person designated in Items 4.a. through 4.c. above may sign documents if:
 - a. The authorization is made in writing by a person described in Items 4.a. through 4.c. 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.

6. All applications, reports, or information submitted to the San Diego Water Board must be signed and 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."

7. The City of San Marcos must submit reports required under this Certification, or other information required by the San Diego Water Board, to:

Executive Officer
California Regional Water Quality Control Board
San Diego Region
Attn: 401 Certification; Project No. 09C-041
9174 Sky Park Court, Suite 100
San Diego, California 92123

8. Required Reports: The following list summarizes the reports required per the conditions of this Certification to be submitted to the San Diego Water Board.

Report Topic	Certification Condition	Due Date(s)
Unauthorized Discharge	A.5	Within 24 hours
Transfer of Responsibility	A.7.a-c	Within 10 days
Annual Progress Reports	A.12	August 1, annually
Final Project Annual Report	A.13	Within 30 days of completion of the project and any associated monitoring
Commencement of Dredge, Fill, and Discharge	B.3	At least 5 days prior to the actual commencement of dredge, fill, and/or discharge activities
Receiving Waters Monitoring Plan	C.1	Prior to construction commencement
Benthic Macroinvertebrate Community Analysis	C.1.a	With the Annual Progress Reports (Condition A.12)
Health of Wetland and Riparian Habitats	C.1.b	With the Annual Progress Reports (Condition A.12)
Storm Water Management Plan	D.5	Prior to construction commencement
Commencement of Mitigation Installation	E.3	At least 5 days prior to the actual commencement of mitigation installation.
Mitigation As-Built Report	E.5	With the annual report (Condition E.11)
Final Mitigation Plan	E.11	Prior to construction commencement
Mitigation Monitoring Reports	E.12	December 1, annually
Preservation Mechanism	E.14	Prior to construction commencement
Stream Photo Documentation Procedure	F.1	With the Mitigation Monitoring Reports (Condition E.11)
Post-Construction BMP Practices Photo Documentation	G.1	With the Mitigation Monitoring Reports (Condition E.11)
GIS Reporting	H.1	Within 1 st Mitigation and Monitoring Report

Report Topic	Certification Condition	Due Date(s)
		(Condition E.11)

CEQA FINDINGS:

1. The City of San Marcos is the lead agency under the California Environmental Quality Act [Public Resources Code section 21000, et seq., (CEQA)], and prepared a Final Mitigated Negative Declaration pursuant to CEQA requirements. A Notice of Determination was filed on January 8, 2009 for a Mitigated Negative Declaration (SCH # 2008101009) for the project under CEQA Guidelines, Title 14, California Code of Regulations, 15075 (14 CCR section 15075). The City of San Marcos has determined that the project will not have a significant effect on the environment and mitigation measures were made a condition of the project.
2. The San Diego Water Board has reviewed the lead agency's Mitigated Negative Declaration, and finds that the project, as conditioned, will not have a significant effect on the environment with the incorporation of mitigation measures, and therefore determines that issuance of this Certification is consistent with the Mitigated Negative Declaration.

PUBLIC NOTIFICATION OF PROJECT APPLICATION:

On June 6, 2009 receipt of the project application was posted on the San Diego Water Board web site to serve as appropriate notification to the public. No public comments were received.

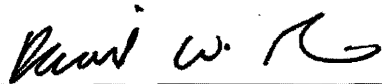
SAN DIEGO WATER BOARD CONTACT PERSON:

Alan Monji
 California Regional Water Quality Control Board, San Diego Region
 9174 Sky Park Court, Suite 100
 San Diego, CA 92123
 (858) 637-7140
 amonji@waterboards.ca.gov

WATER QUALITY CERTIFICATION:

I hereby certify that the proposed discharge from Borden Road and Bridge (Project No. 09C-041) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General WDRs)," which requires compliance with all conditions of this Water Quality Certification. Please note that enrollment under Order No. 2003-017 DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the San Diego Water Board may issue 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 and all proposed mitigation being completed in strict compliance with the applicants' project description and/or on the attached Project Information Sheet, and (b) on compliance with all applicable requirements of the *Water Quality Control Plan for the San Diego Basin Region (9)* (Basin Plan).



DAVID W. GIBSON
Executive Officer
Regional Water Quality Control Board

6-3-2011

Date

- Attachments:
1. Project Information
 2. Distribution List
 3. Location Map
 4. Site and Mitigation Maps
 5. Improvement Plans – Post Construction BMPs



ATTACHMENT 1

Project Identifiers	
WDID No.	9 000001931
Reg. Meas. ID.	738365
Place ID.	738365
Party ID.	369584
Person ID.	508876
USACE No.	SPL-2008001050-MLM
CDFG SAA No.	1600-2009-0123-R5
Other File No.	09C - 041

PROJECT INFORMATION	
Details	
Application Received Date:	05/15/2009
Application Completed Date:	11/23/2010
Additional Info Completed Date:	02/25/2010, 11/10/2010, 11/23/2010, and 12/16/2010
Applicant:	Jerry Backoff, Planning Division Director 760 744-1050 x 3234, 760 744-7543 fax JBackoff@ci.san-marcos.ca.us City of San Marcos 1 Civic Center Drive San Marcos, CA 92069-2918
Applicant Representative(s):	Scot Chandler 858 712-8366 scot.chandler@hdrinc.com HDR Engineering Inc., 8690 Balboa Ave., Suite 200, San Diego, CA 92123
Project Title:	Borden Road and Bridge
Regulating Water Board:	San Diego Regional Water Quality Control Board
Type of Project:	Transportation, Bridges, and Crossings

Project Description:

This project will construct a segment of Borden Road over a tributary to San Marcos Creek (Creek) between Twin Oaks Valley Road and Woodward Street, a distance of approximately 700 feet, within the City of San Marcos. The completion of this segment of Borden Road will require the construction of a pre-cast concrete bridge with two 100-foot spans reaching a height of 6 to 9-feet over the Creek and the associated 100-year floodplain, with four traffic lanes, two 5-foot wide shoulders/bike lanes, a 7 ½ to 10 foot-wide equestrian/multi-use trail, and reconfiguration of the Borden Road/Twin Oaks Valley Road and Borden Road/Woodward Street intersections. The multi-use trail would connect existing trail segments from Twin Oaks Valley Road and Woodward Street and would be constructed of decomposed granite over compacted sub-base material along the road. A culvert is proposed to replace an existing open drainage channel that conveys water from Twin Oaks Valley Road to the Creek within the proposed roadway alignment. Rip-rap will be placed on either side of the Creek to protect the bridge structure from erosion. Approximately 0.096-acre of rip-rap will be placed on the east side of the Creek and 0.175-acre of rip-rap will be placed on the west side of the Creek. Both bridge abutments and the central piers will be located outside the Creek and associated riparian vegetation. The project will result in permanent discharges to 0.234 acre (294 linear feet) wetland and/or riparian habitat and 0.079-acre (235 linear feet) of non-wetland waters of the United States/State, and 0.185-acre (142 linear feet) of temporary impacts to wetland and/or riparian habitat waters of the United States/State. The total permanent impacts to waters of the United States/State



ATTACHMENT 1

will be 0.313-acre, and the total temporary impacts to waters of the United States/State will be 0.185-acre (142 linear feet). Mitigation is onsite and consists of 0.483 acres of enhancement and 1.314 acres of establishment.

Location	
City:	City of San Marcos
County:	San Diego
Cross Streets:	Borden Road between Twin Oaks Valley Road and Woodward Street
Section, Township, Range:	T12S, R3W, S11 San Marcos 7.5-min U.S.G.S. quadrangle
Zip code:	92069
Directions:	From Highway 78, exit at Twin Oaks Valley Road and proceed north for 0.9 miles. The project site is directly east of the intersection of West Borden Road and North Twin Oaks Valley Road.
Latitude(s) and Longitude(s):	33° 9' 2.997" latitude, -117° 9' 38.065" longitude (Center Reading) 33° 9' 3.729" latitude, -117° 9' 3.792" longitude 33° 9' 2.863" latitude, -117° 9' 42.108" longitude 33° 9' 3.804" latitude, -117° 9' 34.024" longitude 33° 9' 2.87" latitude, -117° 9' 34.074" longitude

Public Notice	
Water Board Public Notice: Information regarding this project was noticed on the San Diego Water Board's website on 6/1/2010. <input checked="" type="checkbox"/> No Comments were received.	

Fees	
Application Fee Provided: A certification fee of \$640.00 (check # 054728) was submitted on 05/29/2009 as required by 23 CCR §3833b(2)(A) and by 23 CCR § 2200(e). An additional fee of \$1,187.00 to offset additional design impacts was received on 09/21/2009 as required by 23 CCR §3833b(2)(A) and by 23 CCR § 2200(e).	

Hydrologic Information	
Receiving Water(s):	Tributary to San Marcos Creek (HSA 904.51) → San Marcos Creek (HSA 904.51) → Lake San Marcos (HSA 904.51) → Batiquitos Lagoon (HSA 904.51)
Hydrologic Unit(s):	Carlsbad HU, San Marcos HA, Richland HSA
Water Body Types:	Riparian, Streambed, and Wetland



ATTACHMENT 1

Designated Beneficial Use(s)													
●	AGR		COMM		FRSH		MIGR		RARE		SPWN		
	AQUA		CUL		GWR	+	MUN	●	REC-1	●	WARM		
	ASBS		EST		IND		NAV	●	REC-2		WET		
	BIOL		FISH		LWRM		POW		SAL	●	WILD		
	COLD		FLD		MAR		PRO		SHELL		WQE		

AGR	● Existing	Agricultural Supply
MUN	+ Exempted from MUN by the San Diego Water Board from the municipal use designation under the terms and conditions of State Board Resolution No. 88-63, <i>Sources of Drinking Water Policy</i> .	Municipal and Domestic Supply
REC-1	● Existing	Water Contact Recreation
REC-2	● Existing	Non-Contact Water Recreation
WARM	● Existing	Warm Freshwater Habitat
WILD	● Existing	Wildlife Habitat

Candidate, Sensitive, or Special Status Species
least Bell's vireo (<i>Vireo bellii pusillus</i>)

Other Permits/Licenses/Agreements/Plans
Federal (Type and Permit/License Number)
U.S. Army Corps of Engineers, 6010 Hidden Valley Road, Suite 105, Carlsbad, CA 92011, Contact: Michelle Mattson, 760 602-4835, Michelle.L.Mattson@usace.army.mil , Clean Water Act, section 404 permit # SPL-2008001050-MLM
State (Type and Permit/License/Agreement Number)
California Department of Fish and Game, 4949 Viewridge Avenue, San Diego, CA 92123, Contact: Darren Bradford, 858 467-4223, DBradford@dfg.ca.gov , Streambed Alteration Agreement # 1600-2009-0123-R5
Other County, City, etc. (Type and Permit/License Number)
City of San Marcos, 1 Civic Center Drive, San Marcos, CA 92069 Contact: Susan Rodriguez, 760 744-1050, SVandrew@ci.san-marcos.ca.us , Mitigated Negative Declaration, SCH 2008101009
Any Required Documents or Plan Submittals (SWPPP, Mitigation & Monitoring, etc.)
Habitat Mitigation and Monitoring Plan for the Borden Road and Bridge Project, City of San Marcos, San Diego, County, California. October 2010. Revision #1. Prepared for U.S. Army Corps of Engineers, by HDR Engineering, Inc.



ATTACHMENT 1

NEPA and/or CEQA Compliance	
Document type:	Mitigated Negative Declaration
Lead Agency:	City of San Marcos 1 Civic Center Drive San Marcos, CA 92069
Date completed:	January 8, 2009
State Clearinghouse Number:	SCH 2008101009

IMPACTS
Describe Potential Water Quality and Beneficial Use Impacts
<p>Equipment and machinery used to construct the project (wheel loaders, track dozers, scrapers, excavator, pile driver, motor grader, concrete pump, concrete trucks, dump trucks, and other miscellaneous small equipment) could discharge pollutants (e.g., oil, grease, sediment, and/or concrete washings) and pollute nearby waterbodies. Also, equipment and machinery could disturb soil and vegetation, thereby dispersing exotic invasive weed propagules (e.g., tamarisk, pampas grass, giant reed and other invasive exotic species), and/or disturbing soil, which could lead to exotic invasive weed infestation of the project site, and/or adjacent, downstream, and nearby waterbodies.</p>

Final Project Impacts (Fill)						
Waterbody Type	Permanent			Temporary		
	Acres**	Linear Feet	Cubic Yards	Acres**	Linear Feet	Cubic Yards
<i>Riparian</i>	0.198	167	-	0.185	142	-
<i>- Southern cottonwood-willow riparian forest</i> <i>- Southern willow scrub</i>						
<i>Wetland</i>	0.036	127	-	-	-	-
<i>Streambed, unvegetated channel</i>	0.079	235	-	-	-	-
TOTALS	0.313	-	-	0.185	-	-
<p>* Include all three measurements (acres, linear feet and cubic yards) for all federal and non-federal waterbody types. ** Provide acres to three decimal places (e.g., 0.006).</p>						

ATTACHMENT 1

Final Project Impacts (Dredge/Excavation)**						
Waterbody Type	Permanent			Temporary		
	Acres***	Linear Feet	Cubic Yards	Acres***	Linear Feet	Cubic Yards
Lake	-	-	-	-	-	-
Ocean	-	-	-	-	-	-
Riparian	-	-	-	-	-	-
Streambed	-	-	-	-	-	-
Vernal Pool	-	-	-	-	-	-
ACOE Jurisdictional Wetland	-	-	-	-	-	-
ODFG Jurisdiction Only	-	-	-	-	-	-

* For projects that will occur annually please provide the total volume to be dredged for the entire certification period (typically 5 years).
 ** Include all three measurements (acres, linear feet and cubic yards) for all federal and non-federal waterbody types.
 *** Provide acres to three decimal places (e.g., 0.006).

Impact Comparison*								
Impacts (Acres)**	Fill				Dredge			
	Permanent		Temporary		Permanent		Temporary	
	Initial	Final	Initial	Final	Initial	Final	Initial	Final
	-	-	-	-	-	-	-	-

* Include impacts to both federal and non-federal waters.
 ** Provide acres to three decimal places (e.g., 0.006).

MITIGATION

Describe Avoidance and Minimization for Impacts to Waters

To minimize impacts to waters of the United States during project design, instead of a culverted crossing, the Borden Road bridge was designed to span the creek, and the abutments for the bridge were placed outside the limits the streambed.

To avoid and minimize impacts to waterbodies, the following measures will be implemented: Silt fencing will be placed around all disturbed areas to control erosion, and gravel bags will be installed at the top of all manufactured slopes and in areas of grade change where erosion is likely to occur. All graded areas that will not be worked for 7-days will be hydroseeded.

Protection of water quality will be achieved during the post-construction phase through the use of storm drain filter inserts (e.g., Kristar Flogard Plus catch basin filter inserts, or an equivalent). The Kristar catch basin insert is designed to capture sediment, debris, trash and oils/grease from low (first flush) flows. A (dual) high-flow bypass allows flows to bypass the device while retaining sediment and larger floatables (debris & trash). Seven filter inserts will be utilized which will treat runoff from the bridge and adjacent streets. Water runoff from the horse trail which crosses the bridge will also be treated by filter inserts.

Maintenance of the filter inserts will consist of three inspections per year. One inspection will occur before the wet season and two will occur during the wet season. During inspections, sediment and debris will be removed from the catch basin and the absorbent material will be replaced when it is more than 50 percent coated with pollutants.



ATTACHMENT 1

A sand filtration basin will be located at the northwest corner of Borden Road and Twin Oaks Valley Road. The sand filtration will treat flows emanating from Borden Road west of Twin Oaks Valley Road. It will use the natural filtering ability of soil to remove pollutants from stormwater runoff. Maintenance of the infiltration basin will involve semiannual inspections, trimming of vegetation, removal of trash and debris, removal of accumulated sediments, and restoration of basin slopes.

A vegetated swale will be located along the north side of Borden Road between Woodward Street and Borden Road bridge. The vegetated swale will treat runoff emanating from the undeveloped land northwest of Borden Road and Woodward Street. The vegetated swale will remove nutrients from runoff before flowing into the creek. Maintenance activities of the vegetated swale involve maintenance of the grass cover, which will consist of monthly mowing, weed control, maintenance irrigation when necessary, reseeding of bare areas, and the removal of trash and debris.

Describe Compensatory Mitigation for Impacts to Waters (temporary and permanent)

Compensatory mitigation for impacts to waters include the following:

1.314-acre of wetland/riparian forest to be established.

0.483-acre of riparian forest to be enhanced.

Compensatory Mitigation (Proponent Provided)

Waterbody Type	Acres Established		Acres Restored		Acres Enhanced		Acres Preserved	
	Temp *	Perm.	Temp *	Perm.	Temp *	Perm.	Temp	Perm.
Riparian Forest	-	-	-	-	-	0.483	-	-
Riparian scrub	-	-	-	-	-	-	-	-
Wetland/Riparian Forest	-	1.314	-	-	-	-	-	-

* Report as mitigation for temporary impacts at a 1:1 ratio any required conditions to restore the site (e.g., re-vegetating or re-contouring).

Compensatory Mitigation (Mitigation Bank)

Waterbody Type	Acres Established	Acres Restored	Acres Enhanced	Acres Preserved
Lake	-	-	-	-
Ocean	-	-	-	-
Riparian	-	-	-	-
Streambed	-	-	-	-
Vernal Pool	-	-	-	-
Wetland	-	-	-	-



ATTACHMENT 1

Compensatory Mitigation (In-Lieu)				
Waterbody Type	Acres Established	Acres Restored	Acres Enhanced	Acres Preserved
Lake	-	-	-	-
Ocean	-	-	-	-
Riparian	-	-	-	-
Streambed	-	-	-	-
Vernal Pool	-	-	-	-
Wetland	-	-	-	-

Proponent Provided Mitigation Information (If Applicable)*		
	Site 1	Site 2
Mitigation Site Location(s)	Assessor Parcel Numbers (APNs) 218-120-28 and 220-050-48	Not Applicable
Mitigation Site Lat/Long(s)	The City of San Marcos is in the process of purchasing the necessary portion of properties APNs 218-120-28 and 220-050-48. Lat/Long(s) is not yet known.	"
Name of Watershed & Hydrologic Unit	Watershed = San Marcos Creek, Hydrologic Unit = Carlsbad, Area = San Marcos, Subarea = Richland	"
Mitigation Site City and County	City of San Marcos, San Diego County	"

*If more than two sites, please provide additional information in the additional information table located at the end of this form.

Mitigation Bank Information (If Applicable)*		
	Bank 1	Bank 2
Mitigation Bank Name	Not Applicable	Not Applicable
Name of Mitigation Bank Operator	"	"
Address of Mitigation Bank Office	"	"
Mitigation Bank Location(s)	"	"
Mitigation Bank Lat/Long(s)	"	"
Name of Watershed & Hydrologic Unit	"	"
Mitigation Bank City and County	"	"
Mitigation purchase amount (\$)	"	"

*If more than two sites, please provide additional information in the additional information table located at the end of this form.



ATTACHMENT 1

In-Lieu Mitigation Information (If Applicable)*		
	Program 1	Program 2
Name of approved in-lieu fee mitigation sponsor	Not Applicable	Not Applicable
Address of in-lieu mitigation sponsor	"	"
Description of in-lieu mitigation arrangements	"	"
In-lieu mitigation location	"	"
In-lieu mitigation lat/long(s)	"	"
In-lieu mitigation City and County	"	"
Name of Watershed & Hydrologic Unit	"	"

*If more than two sites, please provide additional information in the additional information table located at the end of this form.

Additional Mitigation Information (Proponent Bank or In-Lieu)		
	Site 1	Site 2
Mitigation Site Name	Not Applicable	Not Applicable
Name of Mitigation Site Operator	"	"
Address of Mitigation Site Office	"	"
Mitigation Site Location(s)	"	"
Mitigation Site Lat/Long(s)	"	"
Name of Watershed & Hydrologic Unit	"	"
Mitigation Site City and County	"	"
Mitigation purchase amount (\$)	"	"

**ATTACHMENT 2
DISTRIBUTION LIST**

Michelle Mattson
U.S. Army Corps of Engineers, Regulatory Branch
San Diego Field Office
6010 Hidden Valley Rd, Suite 105
San Diego, CA 92011-4213
Michelle.I.matson@usace.army.mil

Darren Bradford
California Department of Fish and Game
South Coast Region
Habitat Conservation Planning – South
4949 Viewridge Avenue
San Diego, CA 92123
dbradford@dfg.ca.gov

U.S. EPA, OWOW, Region 9
75 Hawthorne St.,
San Francisco, CA 94105
R9-WTR8-Mailbox@epa.gov

State Water Resources Control Board, Division of Water Quality
401 Water Quality Certification and Wetlands Unit
P.O. Box 100
Sacramento, CA 95812-0100
Stateboard401@waterboards.ca.gov

Susan Vandrew-Rodriguez
1 Civic Center Drive
San Marcos, CA 92069
svandrew@ci.san-marcos.ca.us

Scot Chandler
HDR Engineering, Inc.
8690 Balboa Ave., Suite 200
San Diego, CA 92123
Scot.Chandler@hdrinc.com

**ATTACHMENT 3
LOCATION MAP**

09C-041

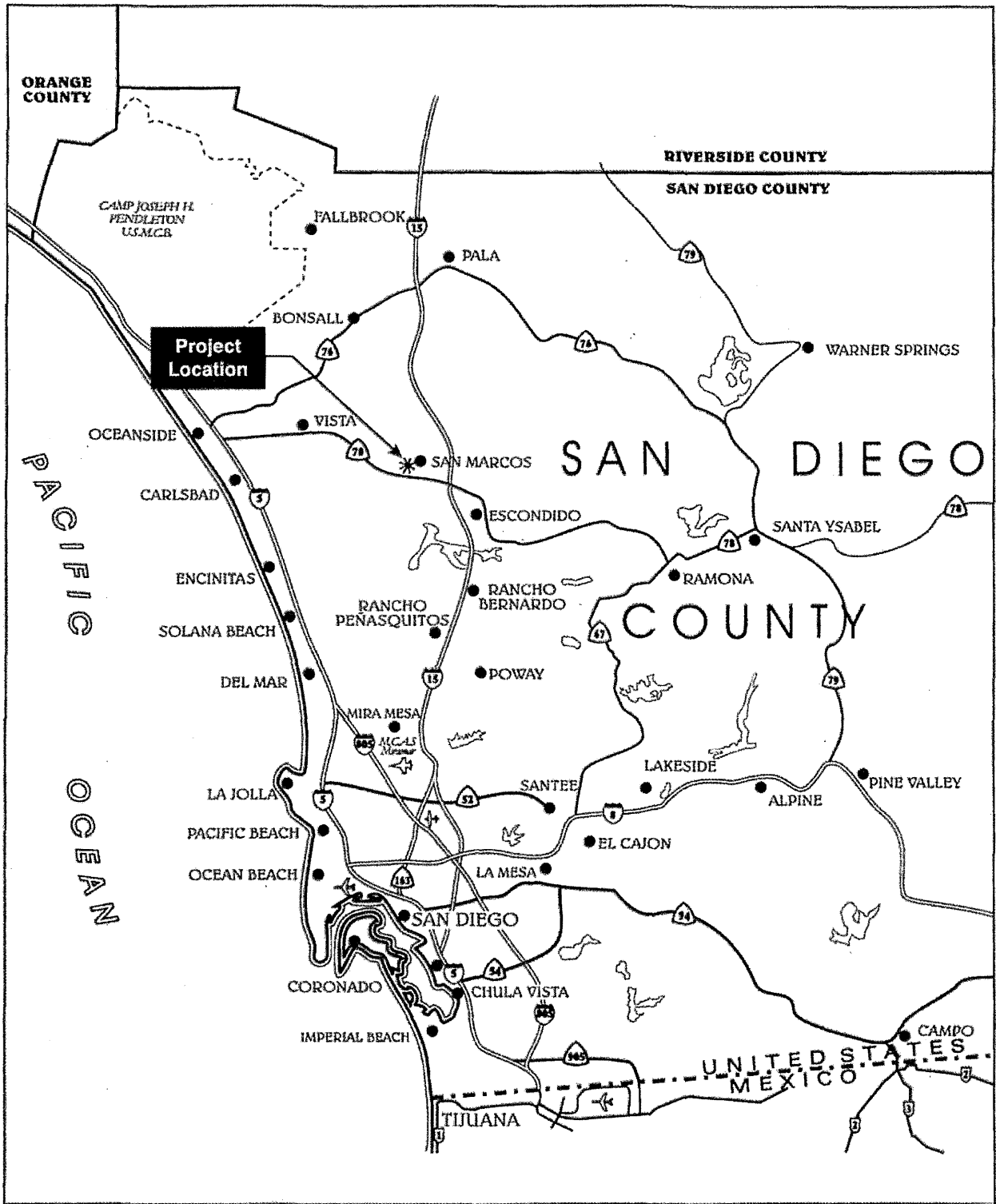
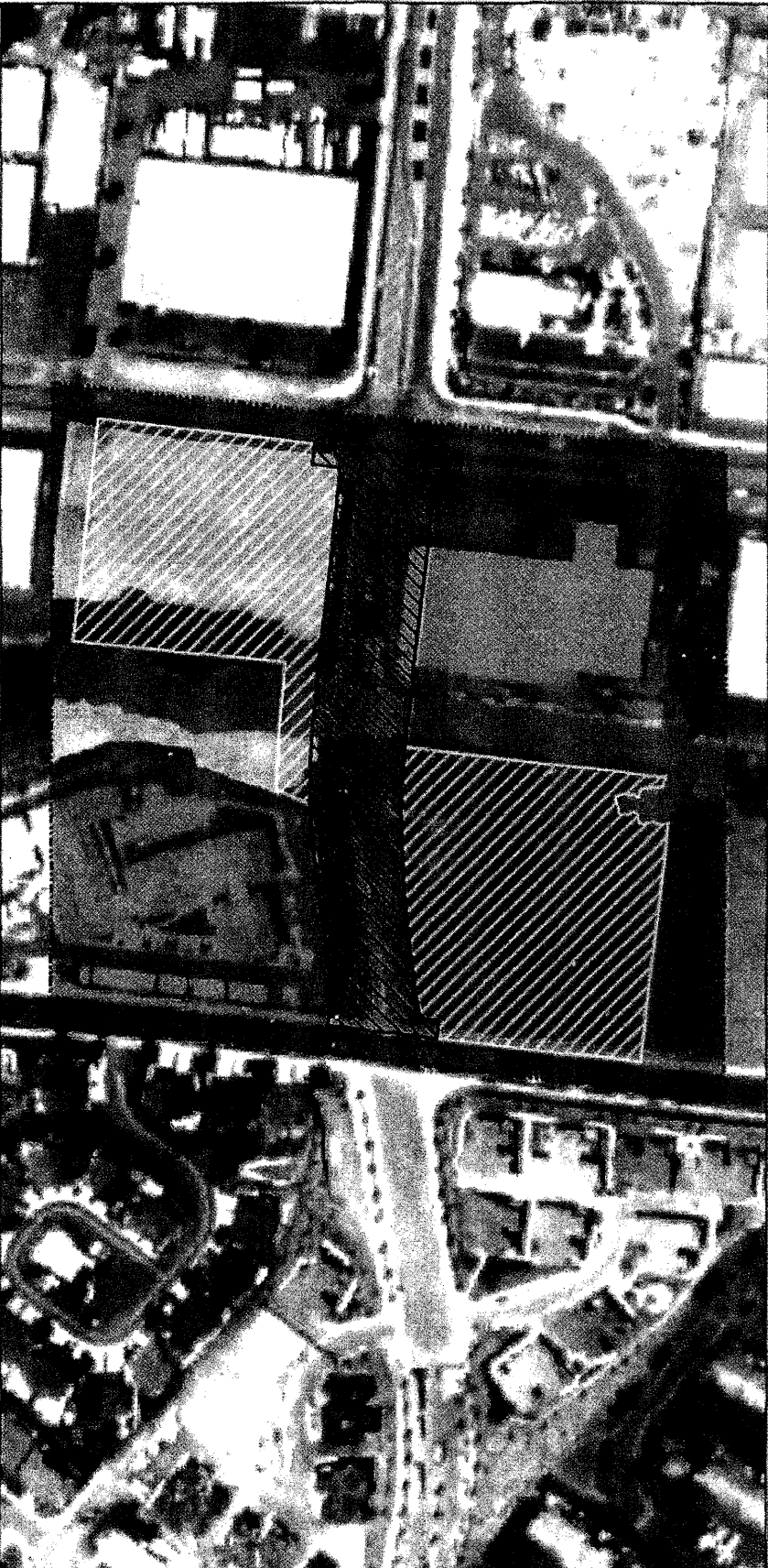


Figure 1
Regional Location Map



**ATTACHMENT 4
SITE and MITIGATION MAPS**

09C-041



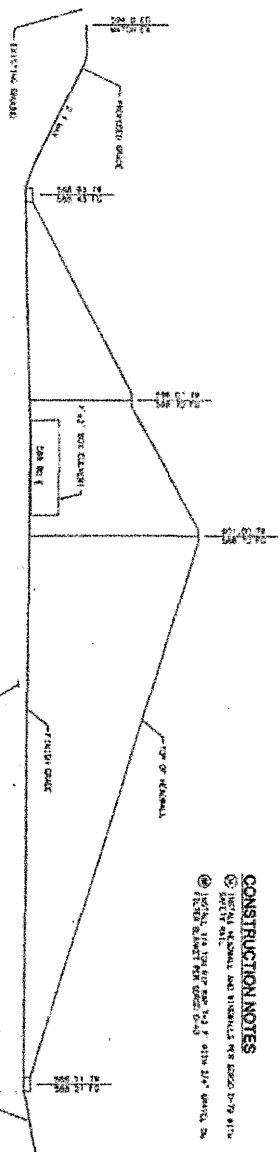
VEGETATIONAL ANDCOVER CLASSIFICATION	IMPACT ACREAGES		OTHER FEATURES	NOTES	SCALE IN FEET	BORDEN ROAD EXTENSION IMPACTS TO BIOLOGICAL RESOURCES
	Permanent	Temporary				
Unvegetated Channel	0.079	None	Study Area	Digital base data provided by Simon Wong Engineering.	0 60 120	TERRA ENVIRONMENTAL SERVICES
Developed	0.724	0.130	Permanent Impact Limit	USDA, NAD Aerial Imagery, 1-m resolution San Diego County, 2005.		
Non-Native Grassland	0.016	1.348	Temporary Impact Limit	Graphic prepared by Foothill Associates GIS Division (Drawn by EMERSWD, 9/29/06)	FIGURE 3	
Ruderal	0.701	2.673		Replant area in northern temporary impact zone will be eroded, and the acreage is not included in temporary impact calculations.		
Southern Cottonwood-Willow Riparian Forest	0.182	0.068		File name = Impacts.mxd		
Southern Willow Scrub Riparian Forest Area	0.005	0.052				
Total	1.767	4.176				



**ATTACHMENT 5
IMPROVEMENT PLANS FOR BORDEN ROAD**

09C-041

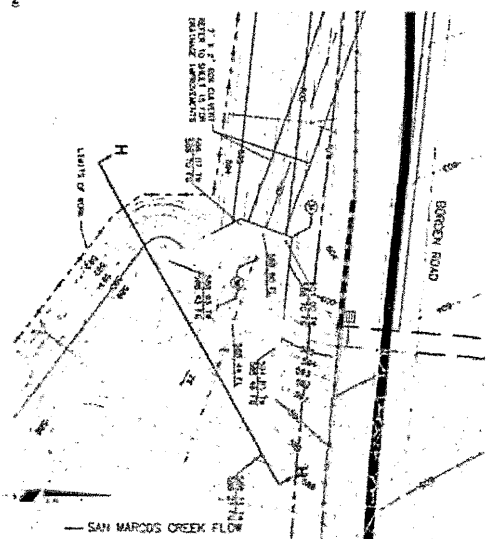
3



MODIFIED BOX CULVERT WINGWALL SECTION HH

CONSTRUCTION NOTES

- 1. SEE PLAN, ELEVATION AND TYPICALS FOR EXACT DIMENSIONS.
- 2. ALL DIMENSIONS ARE IN FEET AND INCHES.
- 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
- 4. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
- 5. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
- 6. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
- 7. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
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- 17. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
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- 19. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
- 20. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.



MODIFIED BOX CULVERT WINGWALL SECTION HH

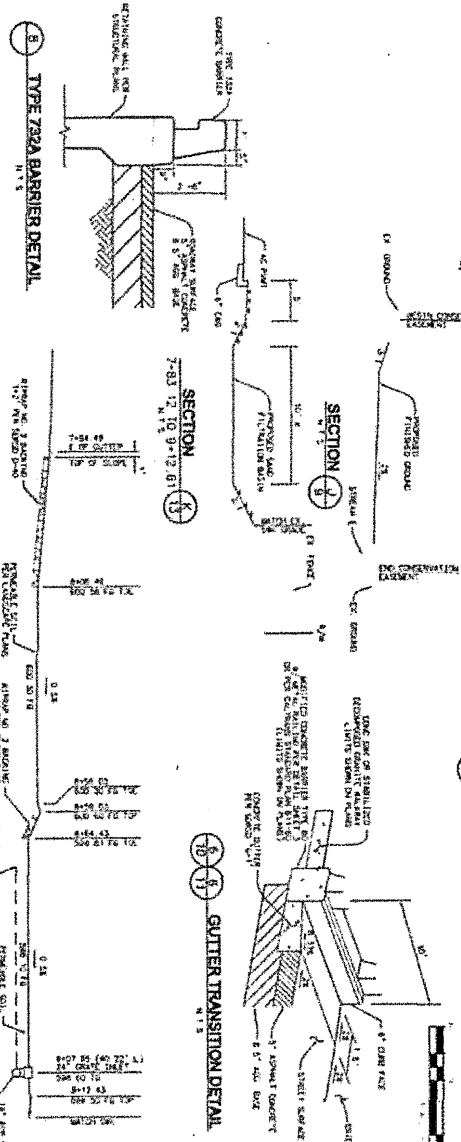
SAN MARCOS CREEK FLOW

WWD CONNECTION TO ASP NOTES:

1. THE WWD CONNECTION TO THE ASP SHALL BE MADE AT THE POINT OF ENTRY TO THE ASP.
2. THE WWD CONNECTION TO THE ASP SHALL BE MADE AT THE POINT OF ENTRY TO THE ASP.
3. THE WWD CONNECTION TO THE ASP SHALL BE MADE AT THE POINT OF ENTRY TO THE ASP.
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20. THE WWD CONNECTION TO THE ASP SHALL BE MADE AT THE POINT OF ENTRY TO THE ASP.

VALLEJITOS WATER DISTRICT GENERAL NOTES (CONT'D)

1. THE WWD CONNECTION TO THE ASP SHALL BE MADE AT THE POINT OF ENTRY TO THE ASP.
2. THE WWD CONNECTION TO THE ASP SHALL BE MADE AT THE POINT OF ENTRY TO THE ASP.
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20. THE WWD CONNECTION TO THE ASP SHALL BE MADE AT THE POINT OF ENTRY TO THE ASP.

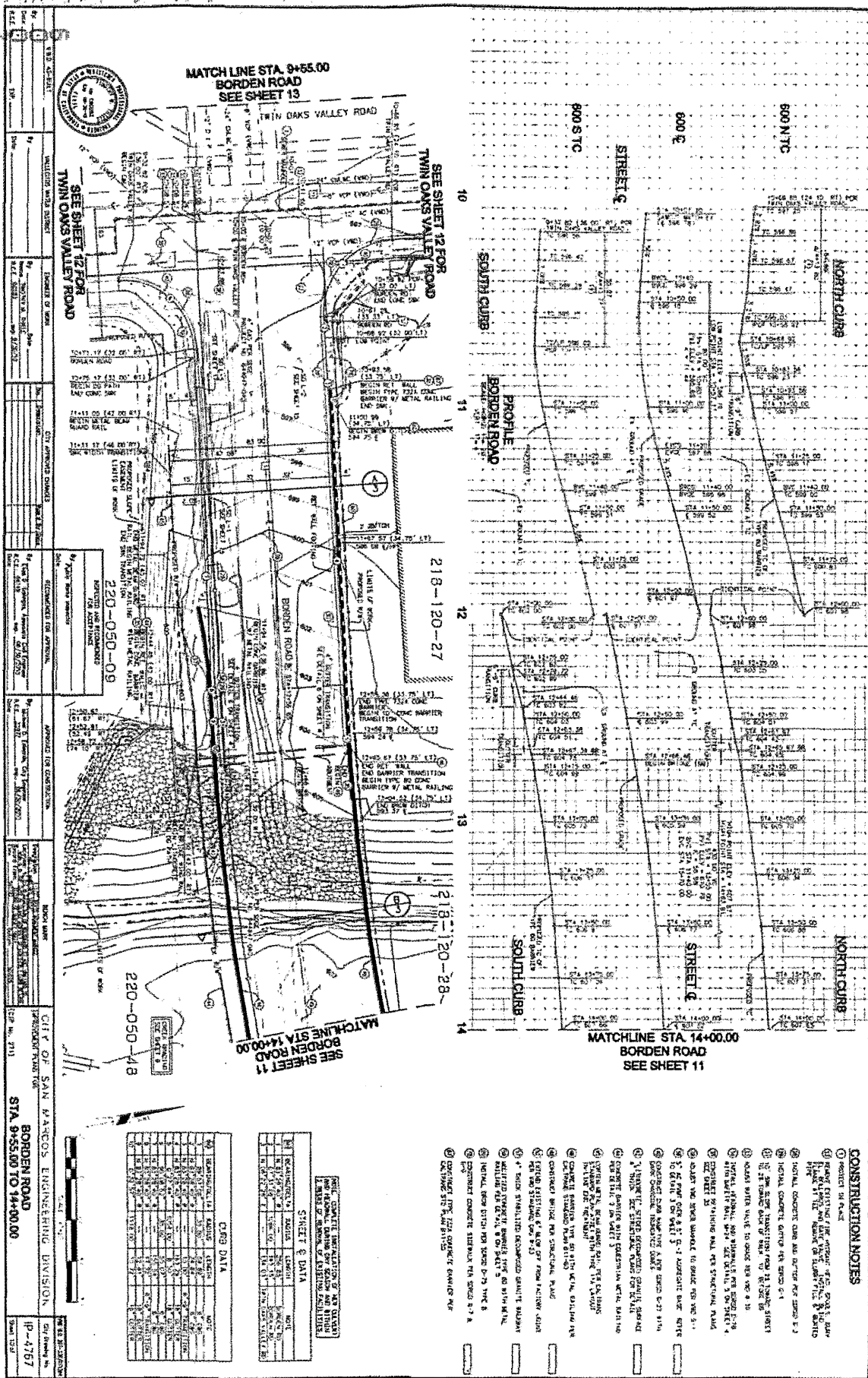


TYPE Z92A BARRIER DETAIL

SAND FILTRATION BASIN DETAIL

GUTTER TRANSITION DETAIL

PROJECT NO.	DATE	BY	CHECKED	APPROVED
10-10-10	10/10/10	J. B. BORDEN	J. B. BORDEN	J. B. BORDEN
PROJECT NAME	CLIENT	DESIGNER	DATE	BY
VALLEJITOS WATER DISTRICT	CITY OF SAN MARCOS	BORDEN ROAD	10/10/10	J. B. BORDEN
PROJECT LOCATION	PROJECT NO.	PROJECT NAME	DATE	BY
VALLEJITOS WATER DISTRICT	10-10-10	BORDEN ROAD	10/10/10	J. B. BORDEN
PROJECT NO.	DATE	BY	CHECKED	APPROVED
10-10-10	10/10/10	J. B. BORDEN	J. B. BORDEN	J. B. BORDEN
PROJECT NAME	CLIENT	DESIGNER	DATE	BY
VALLEJITOS WATER DISTRICT	CITY OF SAN MARCOS	BORDEN ROAD	10/10/10	J. B. BORDEN
PROJECT LOCATION	PROJECT NO.	PROJECT NAME	DATE	BY
VALLEJITOS WATER DISTRICT	10-10-10	BORDEN ROAD	10/10/10	J. B. BORDEN



MATCH LINE STA 9+55.00
 BORDEN ROAD
 SEE SHEET 13

TWIN OAKS VALLEY ROAD
 SEE SHEET 12 FOR
 TWIN OAKS VALLEY ROAD

SEE SHEET 12 FOR
 TWIN OAKS VALLEY ROAD

220-050-08
 220-050-48

MATCHLINE STA 14+00.00
 BORDEN ROAD
 SEE SHEET 11

CITY OF SAN MARCOS ENGINEERING DIVISION
 BORDEN ROAD
 STA 9+55.00 TO 14+00.00

IP-4767



MATCHLINE STA 9+55.00
 BORDEN ROAD
 SEE SHEET 13

TWIN OAKS VALLEY ROAD
 SEE SHEET 12 FOR
 TWIN OAKS VALLEY ROAD

SEE SHEET 12 FOR
 TWIN OAKS VALLEY ROAD

220-050-08
 220-050-48

MATCHLINE STA 14+00.00
 BORDEN ROAD
 SEE SHEET 11

CITY OF SAN MARCOS ENGINEERING DIVISION
 BORDEN ROAD
 STA 9+55.00 TO 14+00.00

IP-4767

MATCHLINE STA 9+55.00
 BORDEN ROAD
 SEE SHEET 13

TWIN OAKS VALLEY ROAD
 SEE SHEET 12 FOR
 TWIN OAKS VALLEY ROAD

SEE SHEET 12 FOR
 TWIN OAKS VALLEY ROAD

220-050-08
 220-050-48

MATCHLINE STA 14+00.00
 BORDEN ROAD
 SEE SHEET 11

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 STA 9+55.00 TO 14+00.00

IP-4767

MATCHLINE STA 9+55.00
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 SEE SHEET 12 FOR
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220-050-08
 220-050-48

MATCHLINE STA 14+00.00
 BORDEN ROAD
 SEE SHEET 11

CITY OF SAN MARCOS ENGINEERING DIVISION
 BORDEN ROAD
 STA 9+55.00 TO 14+00.00

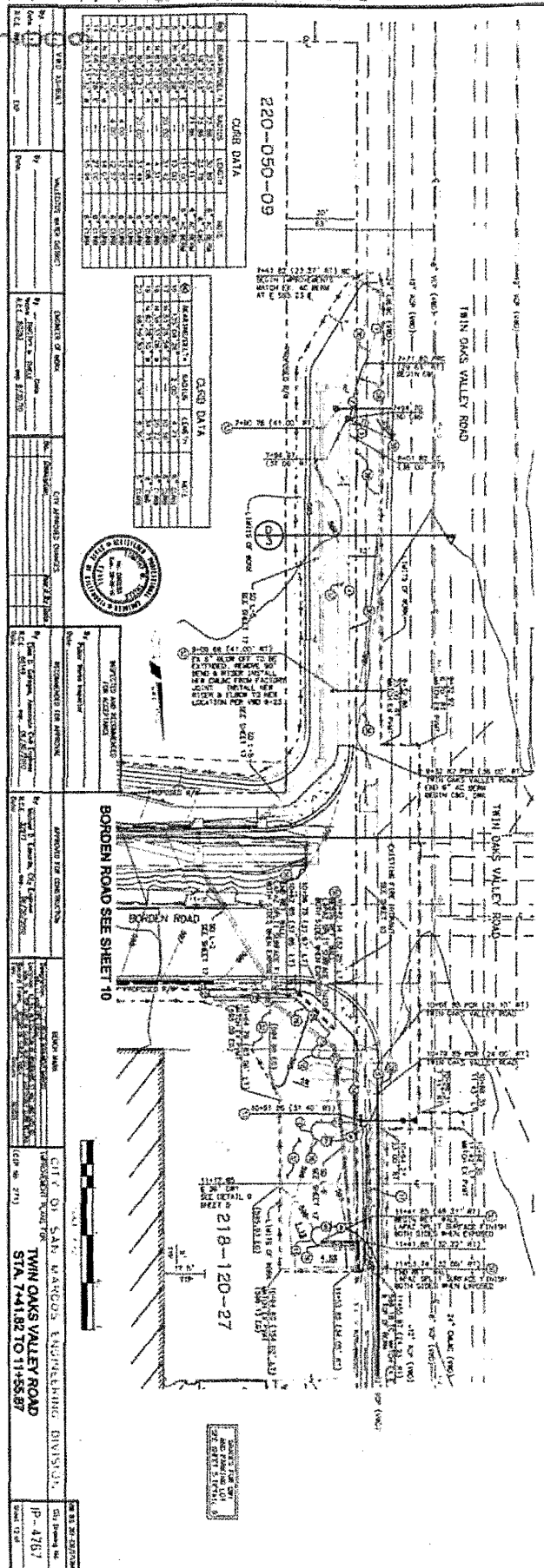
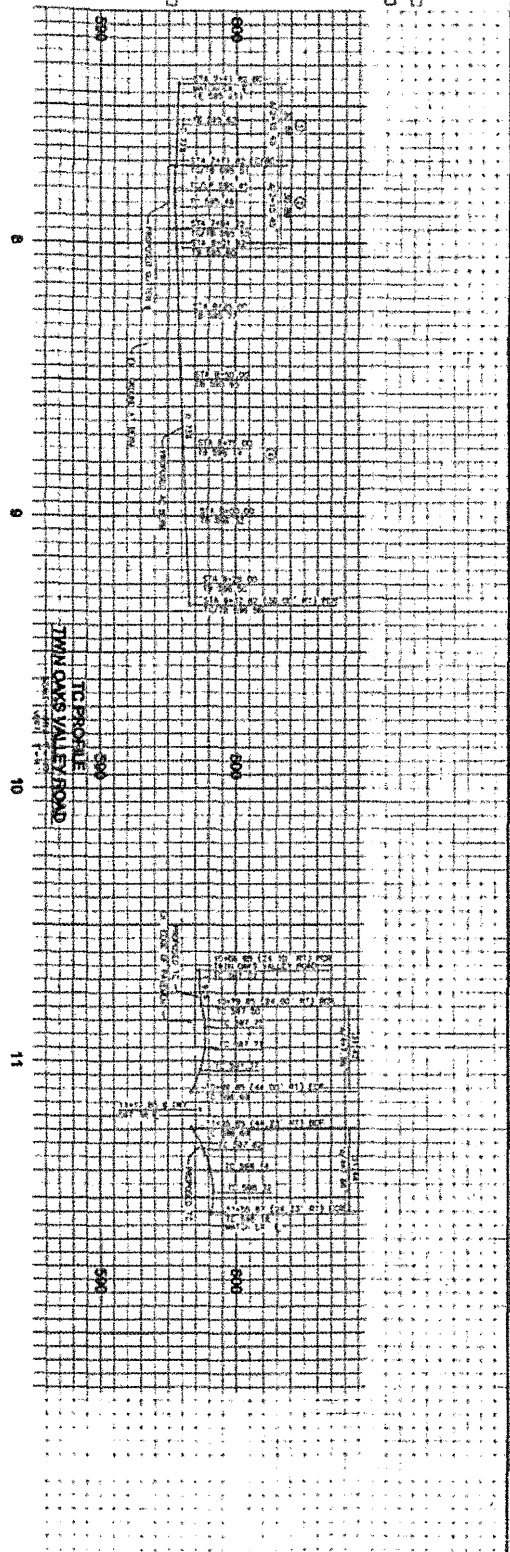
IP-4767

- CONSTRUCTION NOTES**
1. CONCRETE SHALL BE PLACED AND FINISHED TO THE FINISH SURFACE.
 2. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.
 3. ALL CONCRETE SHALL BE TESTED FOR STRENGTH.
 4. ALL CONCRETE SHALL BE TESTED FOR AIR CONTENT.
 5. ALL CONCRETE SHALL BE TESTED FOR SLUMP.
 6. ALL CONCRETE SHALL BE TESTED FOR SET TIME.
 7. ALL CONCRETE SHALL BE TESTED FOR COMPRESSIVE STRENGTH.
 8. ALL CONCRETE SHALL BE TESTED FOR TENSILE STRENGTH.
 9. ALL CONCRETE SHALL BE TESTED FOR FLEXURAL STRENGTH.
 10. ALL CONCRETE SHALL BE TESTED FOR MODULUS OF ELASTICITY.
 11. ALL CONCRETE SHALL BE TESTED FOR POISSON'S RATIO.
 12. ALL CONCRETE SHALL BE TESTED FOR COEFFICIENT OF THERMAL EXPANSION.
 13. ALL CONCRETE SHALL BE TESTED FOR COEFFICIENT OF PERMEABILITY.
 14. ALL CONCRETE SHALL BE TESTED FOR WATER ABSORPTION.
 15. ALL CONCRETE SHALL BE TESTED FOR SWEAT LOSS.
 16. ALL CONCRETE SHALL BE TESTED FOR CHLORIDE CONTENT.
 17. ALL CONCRETE SHALL BE TESTED FOR SULFATE CONTENT.
 18. ALL CONCRETE SHALL BE TESTED FOR ACIDITY.
 19. ALL CONCRETE SHALL BE TESTED FOR ALKALINITY.
 20. ALL CONCRETE SHALL BE TESTED FOR PH.
 21. ALL CONCRETE SHALL BE TESTED FOR TOTAL SOLIDS.
 22. ALL CONCRETE SHALL BE TESTED FOR LOSS ON IGNITION.
 23. ALL CONCRETE SHALL BE TESTED FOR UNSATURATED SURFACE DRYNESS.
 24. ALL CONCRETE SHALL BE TESTED FOR SORPTION COEFFICIENT.
 25. ALL CONCRETE SHALL BE TESTED FOR WATER VAPOUR TRANSMISSION COEFFICIENT.
 26. ALL CONCRETE SHALL BE TESTED FOR PERMEABILITY COEFFICIENT.
 27. ALL CONCRETE SHALL BE TESTED FOR DIFFUSION COEFFICIENT.
 28. ALL CONCRETE SHALL BE TESTED FOR THERMAL CONDUCTIVITY.
 29. ALL CONCRETE SHALL BE TESTED FOR THERMAL EXPANSION COEFFICIENT.
 30. ALL CONCRETE SHALL BE TESTED FOR THERMAL SHRINKAGE COEFFICIENT.
 31. ALL CONCRETE SHALL BE TESTED FOR THERMAL STABILITY.
 32. ALL CONCRETE SHALL BE TESTED FOR THERMAL FLUCTUATION.
 33. ALL CONCRETE SHALL BE TESTED FOR THERMAL STRESS.
 34. ALL CONCRETE SHALL BE TESTED FOR THERMAL STRAIN.
 35. ALL CONCRETE SHALL BE TESTED FOR THERMAL DEFORMATION.
 36. ALL CONCRETE SHALL BE TESTED FOR THERMAL CRACKING.
 37. ALL CONCRETE SHALL BE TESTED FOR THERMAL SPALLING.
 38. ALL CONCRETE SHALL BE TESTED FOR THERMAL DISINTEGRATION.
 39. ALL CONCRETE SHALL BE TESTED FOR THERMAL WEAR.
 40. ALL CONCRETE SHALL BE TESTED FOR THERMAL EROSION.
 41. ALL CONCRETE SHALL BE TESTED FOR THERMAL SCOUR.
 42. ALL CONCRETE SHALL BE TESTED FOR THERMAL SLOTTING.
 43. ALL CONCRETE SHALL BE TESTED FOR THERMAL PUNCTURING.
 44. ALL CONCRETE SHALL BE TESTED FOR THERMAL IMPACT.
 45. ALL CONCRETE SHALL BE TESTED FOR THERMAL COLLAPSE.
 46. ALL CONCRETE SHALL BE TESTED FOR THERMAL BUCKLING.
 47. ALL CONCRETE SHALL BE TESTED FOR THERMAL TWISTING.
 48. ALL CONCRETE SHALL BE TESTED FOR THERMAL CURVING.
 49. ALL CONCRETE SHALL BE TESTED FOR THERMAL BOWING.
 50. ALL CONCRETE SHALL BE TESTED FOR THERMAL SAGGING.
 51. ALL CONCRETE SHALL BE TESTED FOR THERMAL DROOPING.
 52. ALL CONCRETE SHALL BE TESTED FOR THERMAL SINKING.
 53. ALL CONCRETE SHALL BE TESTED FOR THERMAL SETTLING.
 54. ALL CONCRETE SHALL BE TESTED FOR THERMAL SINKING.
 55. ALL CONCRETE SHALL BE TESTED FOR THERMAL SINKING.
 56. ALL CONCRETE SHALL BE TESTED FOR THERMAL SINKING.
 57. ALL CONCRETE SHALL BE TESTED FOR THERMAL SINKING.
 58. ALL CONCRETE SHALL BE TESTED FOR THERMAL SINKING.
 59. ALL CONCRETE SHALL BE TESTED FOR THERMAL SINKING.
 60. ALL CONCRETE SHALL BE TESTED FOR THERMAL SINKING.

100% SUBMITTAL

CONSTRUCTION NOTES

- 1. CONTRACT NO. 40-8000-1-100-0000-00
- 2. SHEET NO. 1 OF 2
- 3. DATE: 10/15/09
- 4. PROJECT: TWIN OAKS VALLEY ROAD
- 5. DRAWN BY: [Name]
- 6. CHECKED BY: [Name]
- 7. SCALE: AS SHOWN
- 8. ALL DIMENSIONS ARE IN FEET AND INCHES
- 9. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE
- 10. ALL DIMENSIONS ARE TO CENTERLINE UNLESS NOTED OTHERWISE
- 11. ALL DIMENSIONS ARE TO EXISTING UNLESS NOTED OTHERWISE
- 12. ALL DIMENSIONS ARE TO PROPOSED UNLESS NOTED OTHERWISE
- 13. ALL DIMENSIONS ARE TO THE CENTERLINE UNLESS NOTED OTHERWISE
- 14. ALL DIMENSIONS ARE TO THE FACE UNLESS NOTED OTHERWISE
- 15. ALL DIMENSIONS ARE TO THE EXISTING UNLESS NOTED OTHERWISE
- 16. ALL DIMENSIONS ARE TO THE PROPOSED UNLESS NOTED OTHERWISE
- 17. ALL DIMENSIONS ARE TO THE CENTERLINE UNLESS NOTED OTHERWISE
- 18. ALL DIMENSIONS ARE TO THE FACE UNLESS NOTED OTHERWISE
- 19. ALL DIMENSIONS ARE TO THE EXISTING UNLESS NOTED OTHERWISE
- 20. ALL DIMENSIONS ARE TO THE PROPOSED UNLESS NOTED OTHERWISE



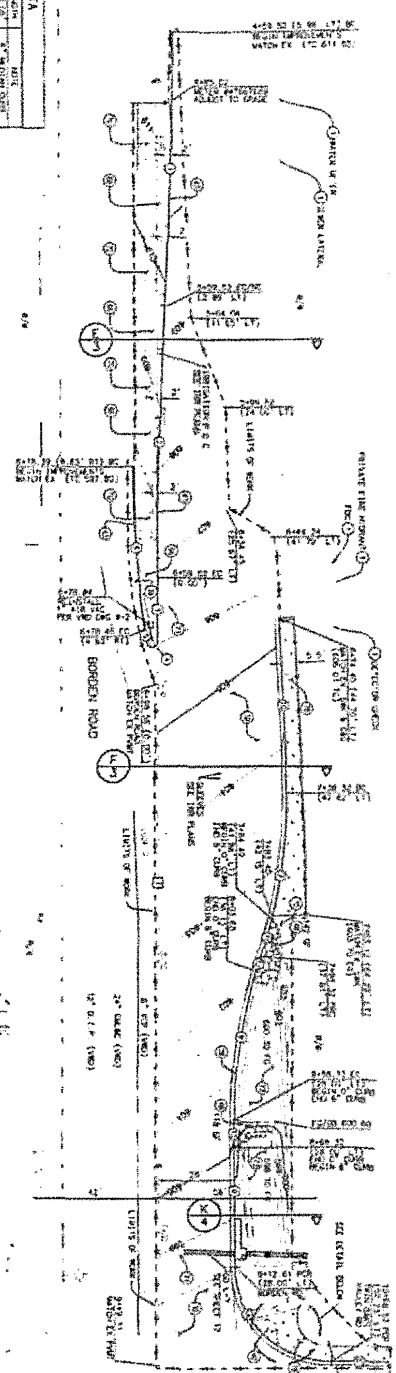
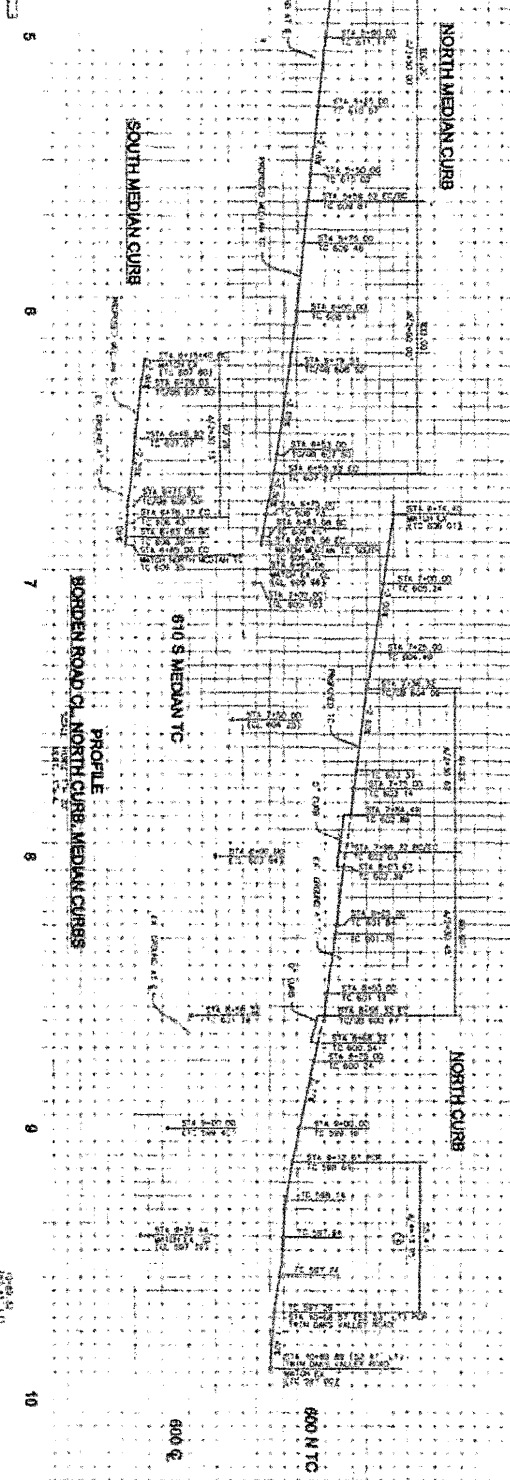
NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR CONSTRUCTION	10/15/09	[Name]	[Name]
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			
9	REVISION			
10	REVISION			
11	REVISION			
12	REVISION			
13	REVISION			
14	REVISION			
15	REVISION			
16	REVISION			
17	REVISION			
18	REVISION			
19	REVISION			
20	REVISION			

CITY OF SAN MARCO ENGINEERING DIVISION
 TWIN OAKS VALLEY ROAD
 STA. 7+41.82 TO 11+55.87
 IP-4767

100% SUBMITTAL

CONSTRUCTION NOTES

1. PROJECT IN PLACE
2. EXISTING CURB AND GUTTER TO REMAIN
3. EXISTING CURB AND GUTTER TO BE RECONSTRUCTED
4. EXISTING CURB AND GUTTER TO BE RECONSTRUCTED WITH 12" CONC. ON TOP OF EXISTING CURB
5. EXISTING CURB AND GUTTER TO BE RECONSTRUCTED WITH 12" CONC. ON TOP OF EXISTING CURB AND 12" CONC. ON TOP OF EXISTING CURB
6. EXISTING CURB AND GUTTER TO BE RECONSTRUCTED WITH 12" CONC. ON TOP OF EXISTING CURB AND 12" CONC. ON TOP OF EXISTING CURB
7. EXISTING CURB AND GUTTER TO BE RECONSTRUCTED WITH 12" CONC. ON TOP OF EXISTING CURB AND 12" CONC. ON TOP OF EXISTING CURB
8. EXISTING CURB AND GUTTER TO BE RECONSTRUCTED WITH 12" CONC. ON TOP OF EXISTING CURB AND 12" CONC. ON TOP OF EXISTING CURB
9. EXISTING CURB AND GUTTER TO BE RECONSTRUCTED WITH 12" CONC. ON TOP OF EXISTING CURB AND 12" CONC. ON TOP OF EXISTING CURB
10. EXISTING CURB AND GUTTER TO BE RECONSTRUCTED WITH 12" CONC. ON TOP OF EXISTING CURB AND 12" CONC. ON TOP OF EXISTING CURB



C&G DATA

NO.	DESCRIPTION	QUANTITY	UNIT
1	12" CONC. ON TOP OF EXISTING CURB	1000	LS
2	12" CONC. ON TOP OF EXISTING CURB	1000	LS
3	12" CONC. ON TOP OF EXISTING CURB	1000	LS
4	12" CONC. ON TOP OF EXISTING CURB	1000	LS
5	12" CONC. ON TOP OF EXISTING CURB	1000	LS
6	12" CONC. ON TOP OF EXISTING CURB	1000	LS
7	12" CONC. ON TOP OF EXISTING CURB	1000	LS
8	12" CONC. ON TOP OF EXISTING CURB	1000	LS
9	12" CONC. ON TOP OF EXISTING CURB	1000	LS
10	12" CONC. ON TOP OF EXISTING CURB	1000	LS



SHEET & DATA

NO.	DESCRIPTION	DATE
1	DESIGN	12/31/2023
2	CHECK	12/31/2023
3	APPROVE	12/31/2023



CITY OF SAN MARCOS ENGINEERING DIVISION

BORDEN ROAD STA. 4+68.52 TO 8+55.00

DATE: 12/31/2023

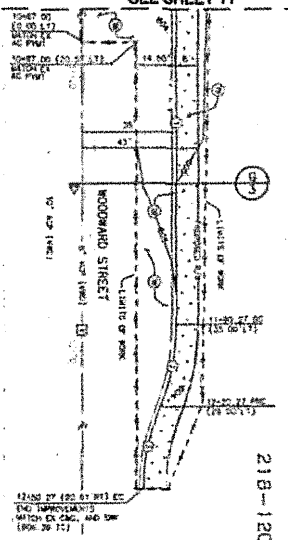
PROJECT NO: 12345

SCALE: 1" = 10'

DATE OF CONTRACT	APPROVED FOR THE CITY	APPROVED FOR THE ENGINEER	APPROVED FOR THE CONTRACTOR
NO. OF SHEETS	DATE OF CONTRACT	DATE OF CONTRACT	DATE OF CONTRACT
BY	BY	BY	BY
FOR	FOR	FOR	FOR
PROJECT NO.	PROJECT NO.	PROJECT NO.	PROJECT NO.
CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION
WOODWARD STREET	WOODWARD STREET	WOODWARD STREET	WOODWARD STREET
STA. 10+75.00 TO 12+50.27	STA. 10+75.00 TO 12+50.27	STA. 10+75.00 TO 12+50.27	STA. 10+75.00 TO 12+50.27
IP-4767	IP-4767	IP-4767	IP-4767



MATCHLINE STA. 10+75.00
WOODWARD STREET
SEE SHEET 11



218-120-28

CHUB DATA

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITS	12/31/23	JSM
2	ISSUED FOR BIDDING	12/31/23	JSM
3	ISSUED FOR CONSTRUCTION	12/31/23	JSM
4	ISSUED FOR AS-BUILT	12/31/23	JSM

STREET & DATA

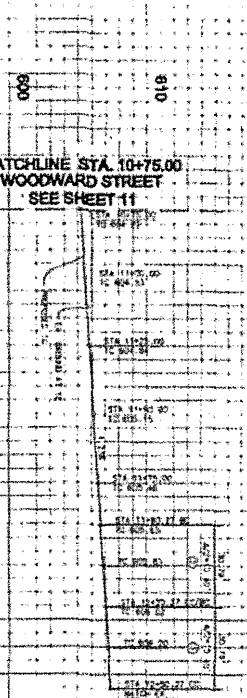
NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITS	12/31/23	JSM
2	ISSUED FOR BIDDING	12/31/23	JSM
3	ISSUED FOR CONSTRUCTION	12/31/23	JSM
4	ISSUED FOR AS-BUILT	12/31/23	JSM

- CONSTRUCTION NOTES**
- 1. INITIAL CONCRETE SHALL BE 4000 PSI.
 - 2. ALL CURBS SHALL BE 4" OR 6" HIGH AND 12" WIDE.
 - 3. EXISTING UTILITIES SHALL BE PROTECTED.
 - 4. CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES.

MATCHLINE STA. 10+75.00
WOODWARD STREET
SEE SHEET 11

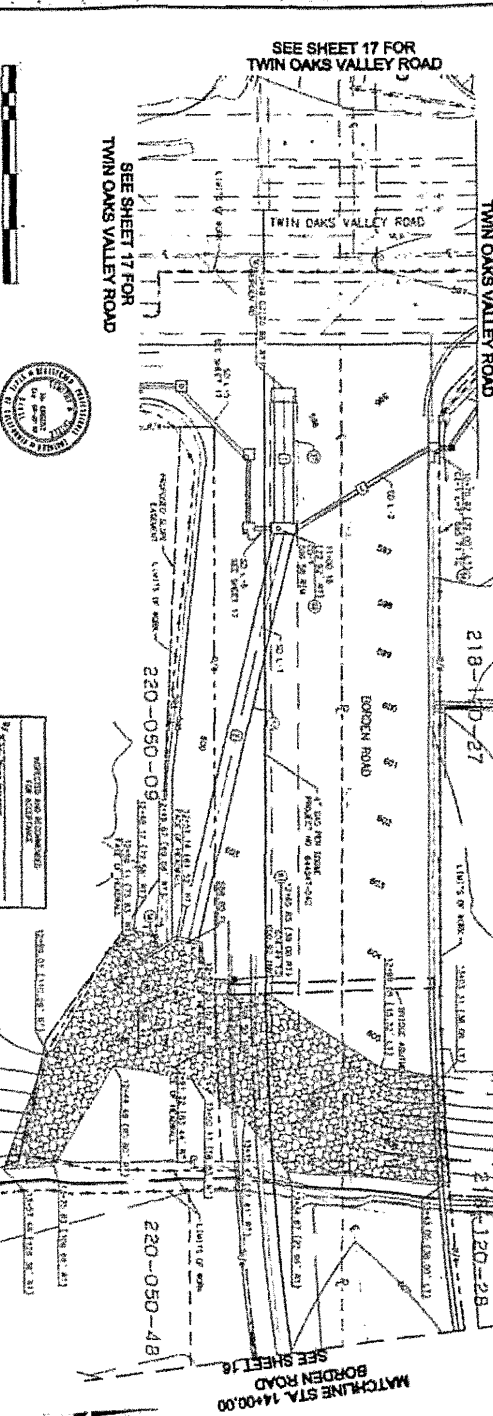
TO PROFILE
WOODWARD STREET

12

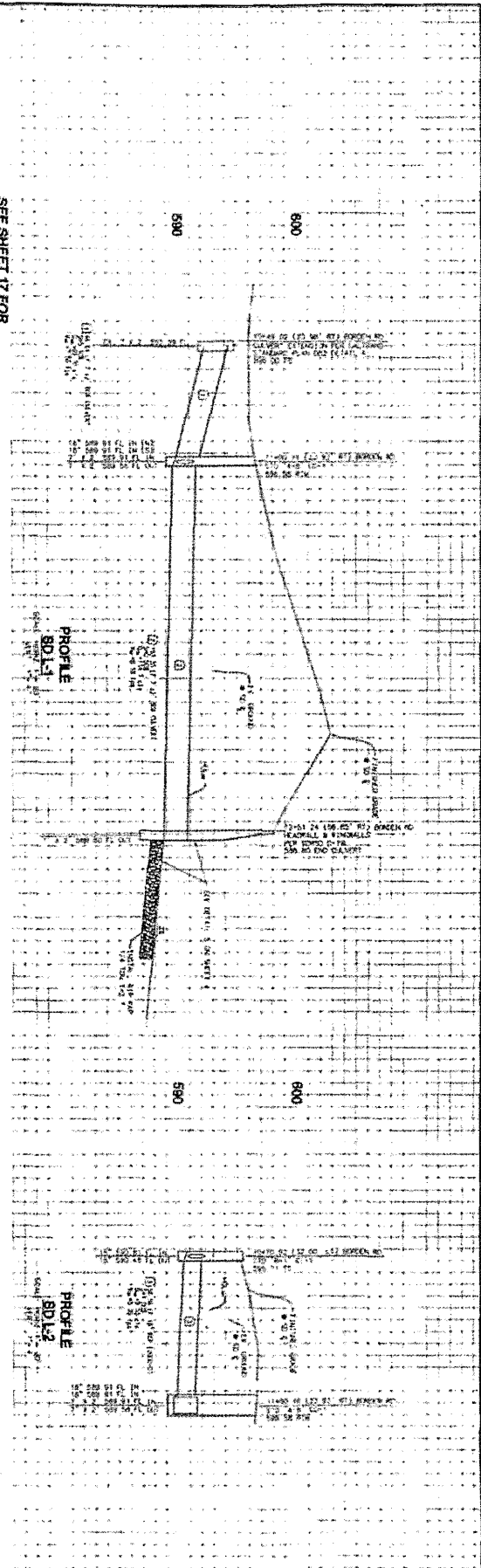


100% SUBMITTAL

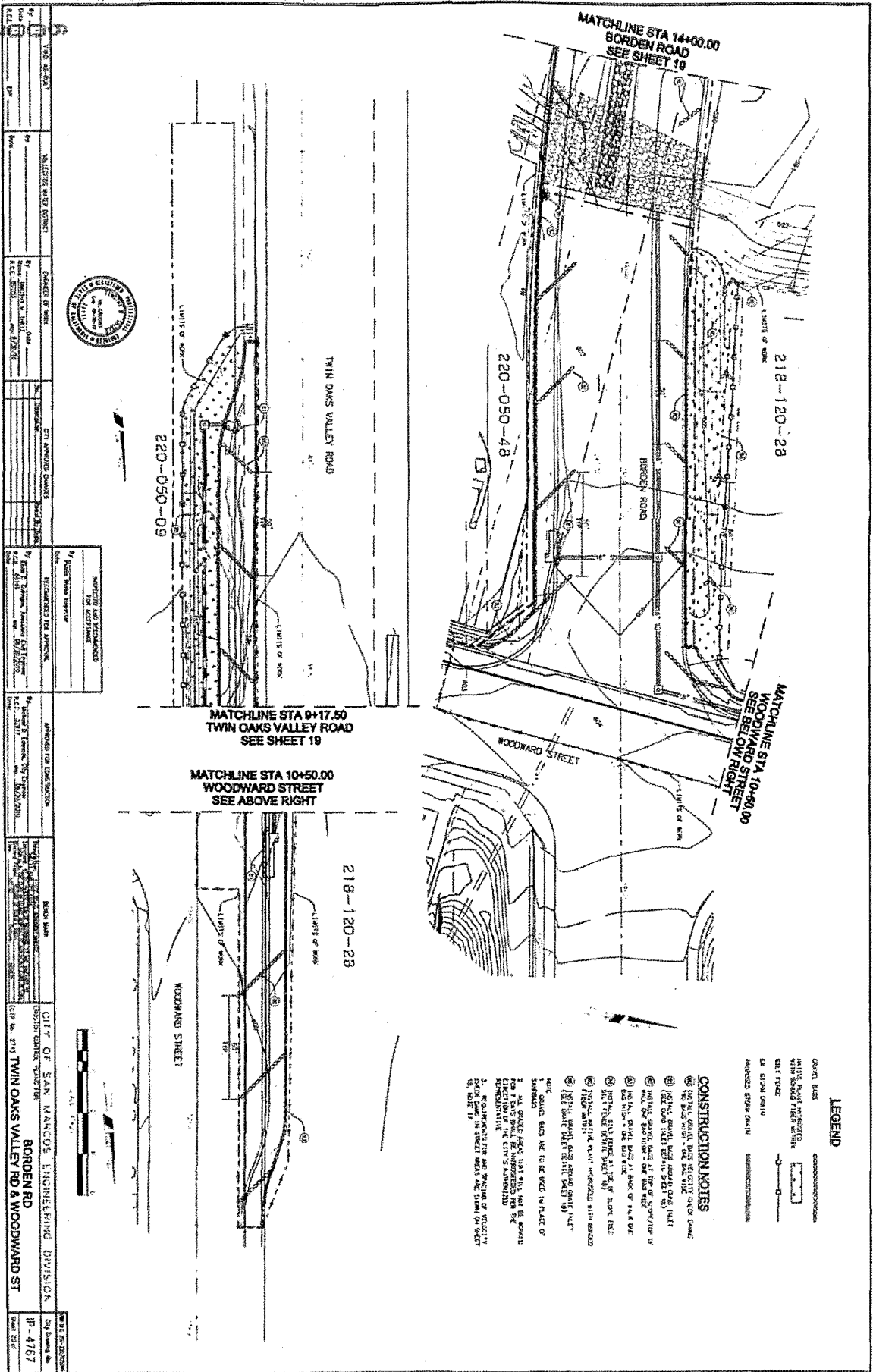
By Date Title	By Date Title	By Date Title	By Date Title	By Date Title	By Date Title	By Date Title	By Date Title	By Date Title	By Date Title
W. J.



NO.	DESCRIPTION	DATE
1
2
3
4
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6
7
8
9
10



100% SUBMITTAL



DATE: 10/1/2011	PROJECT: TWIN OAKS VALLEY ROAD	DESIGNED BY: [Name]	CHECKED BY: [Name]	SCALE: AS SHOWN
BY: [Name]	DATE: 10/1/2011	BY: [Name]	DATE: 10/1/2011	BY: [Name]
CITY OF SAN FRANCISCO ENGINEERING DIVISION BORDEN RD TWIN OAKS VALLEY RD & WOODWARD ST				
IP-4767	10/1/2011			



- LEGEND**
- GRAVEL BASE
 - WHITE ASPHALT PAVEMENT
 - ASPHALT PAVEMENT
 - CONCRETE PAVEMENT
 - CONCRETE CURB
 - CONCRETE SIDEWALK
 - CONCRETE DRIVE
 - CONCRETE DRIVE
 - CONCRETE DRIVE

- CONSTRUCTION NOTES**
1. ALL DIMENSIONS ARE IN FEET AND INCHES.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 4. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 5. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 6. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 7. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 9. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

100% SUBMITTAL

DATE SUBMITTED	APPROVED FOR CONSTRUCTION	APPROVED FOR CONSTRUCTION	APPROVED FOR CONSTRUCTION	APPROVED FOR CONSTRUCTION	APPROVED FOR CONSTRUCTION
BY	BY	BY	BY	BY	BY
DATE	DATE	DATE	DATE	DATE	DATE
PROJECT NO.	PROJECT NO.	PROJECT NO.	PROJECT NO.	PROJECT NO.	PROJECT NO.
118	118	118	118	118	118



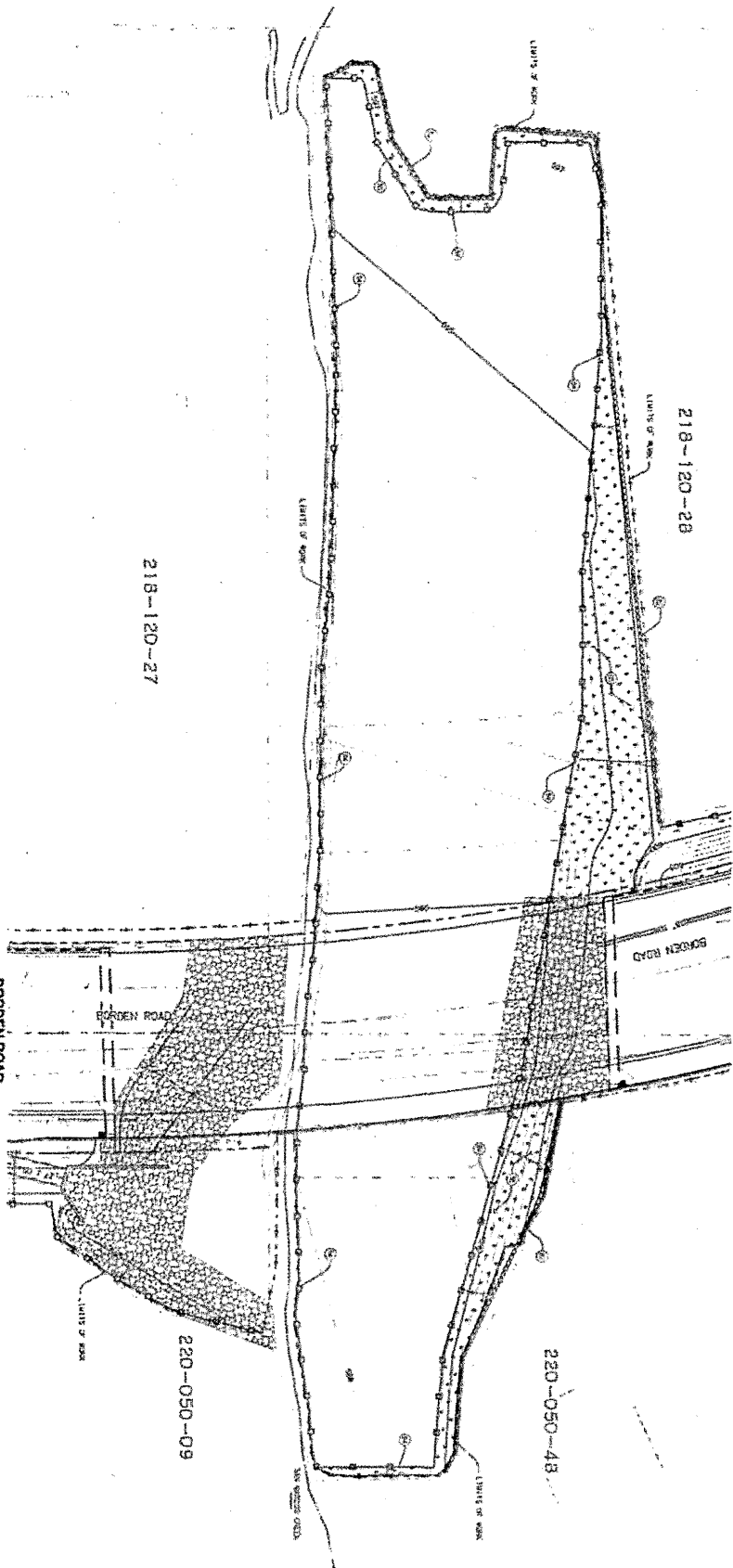
LEGEND

WHITE ROAD INDICATED BY
DOTTED LINE WITH BROWN
DASHES

SOLID LINE

CONSTRUCTION NOTES

CONSTRUCTION NOTES



**BORDEN ROAD
SEE SHEET 19**

**BORDEN ROAD
SEE SHEET 20**

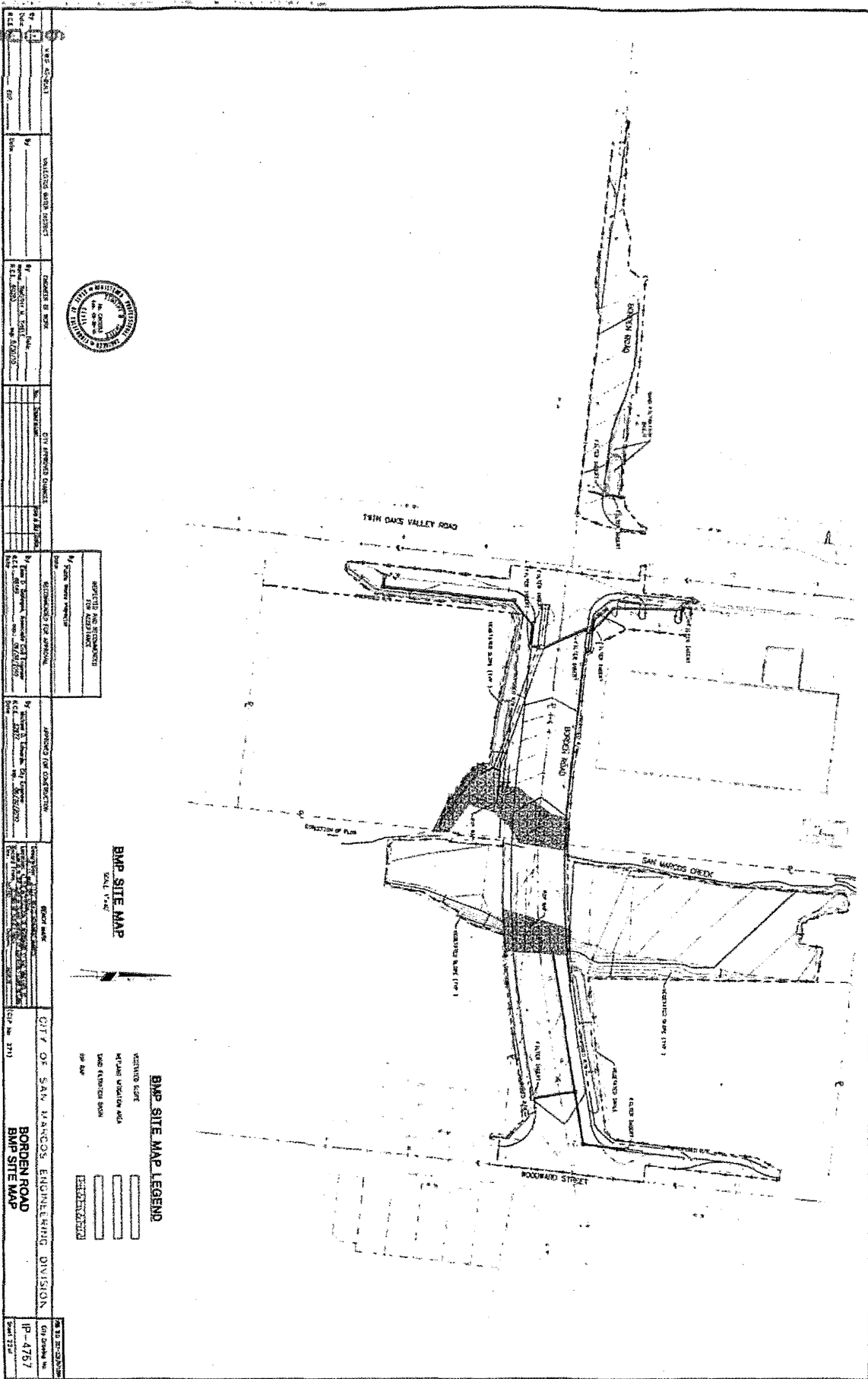
CONSTRUCTION NOTES

1. ALL WORK TO BE DONE IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS FOR ROAD CONSTRUCTION.

2. ALL WORK TO BE DONE IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS FOR ROAD CONSTRUCTION.

3. ALL WORK TO BE DONE IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS FOR ROAD CONSTRUCTION.

100% SUBMITTAL



DATE: 08/14/2013	PROJECT: BORDEN ROAD	DATE: 08/14/2013	PROJECT: BORDEN ROAD	DATE: 08/14/2013	PROJECT: BORDEN ROAD	DATE: 08/14/2013	PROJECT: BORDEN ROAD	DATE: 08/14/2013	PROJECT: BORDEN ROAD
BY: [Signature]	DESIGNED BY: [Signature]	BY: [Signature]	DESIGNED BY: [Signature]	BY: [Signature]	DESIGNED BY: [Signature]	BY: [Signature]	DESIGNED BY: [Signature]	BY: [Signature]	DESIGNED BY: [Signature]
CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION	CITY OF SAN MARCOS ENGINEERING DIVISION
PROJECT NO: 13-001	PROJECT NO: 13-001	PROJECT NO: 13-001	PROJECT NO: 13-001	PROJECT NO: 13-001	PROJECT NO: 13-001	PROJECT NO: 13-001	PROJECT NO: 13-001	PROJECT NO: 13-001	PROJECT NO: 13-001
DATE: 08/14/2013	DATE: 08/14/2013	DATE: 08/14/2013	DATE: 08/14/2013	DATE: 08/14/2013	DATE: 08/14/2013	DATE: 08/14/2013	DATE: 08/14/2013	DATE: 08/14/2013	DATE: 08/14/2013

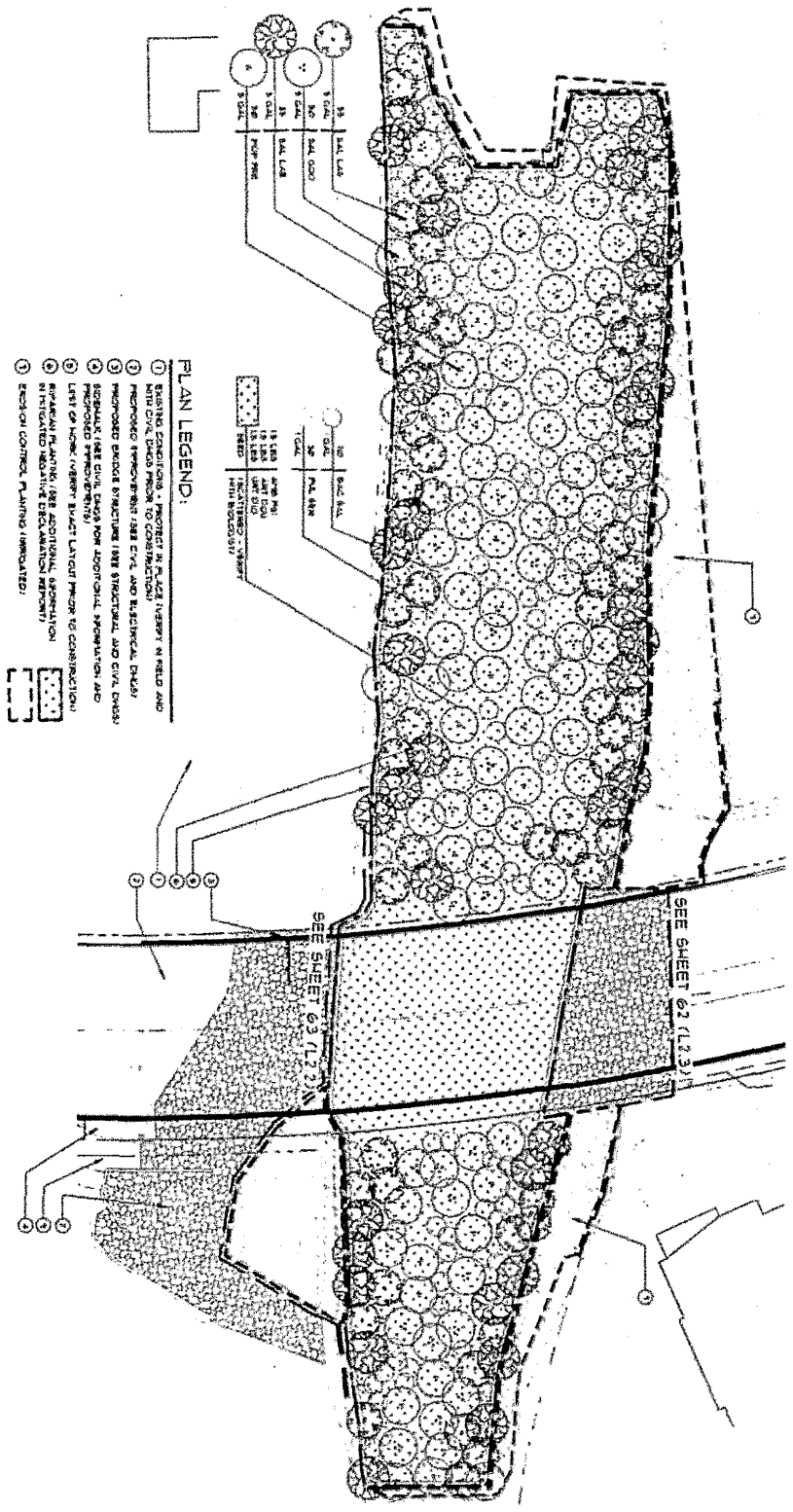


BMP SITE MAP
SCALE: 1" = 100'

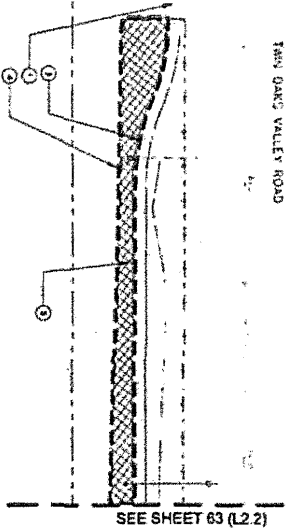
- BMP SITE MAP LEGEND**
- ACTIVATING SCOUR
 - W/PLAN INDICATE AREA
 - LAND EXISTING BOUND
 - SP. ARE

100% SUBMITTAL

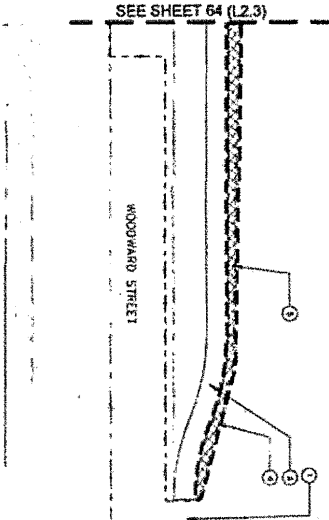
		PLANTING PLAN SCALE: 1"=20'-0" NORTH 0 0 10 40	
PROJECT NO. 124 SHEET NO. 124	DATE: 12/15/10 DRAWN BY: [Name] CHECKED BY: [Name]	CLIENT: CITY OF SAN MARCOS PROJECT: BORDEN ROAD LOCATION: SAN MARCOS, CALIF.	PROJECT NO. 124 SHEET NO. 124
DESIGNER: [Name] PROJECT MANAGER: [Name]	CIVIL ENGINEER: [Name] LICENSE NO. [Number]	CITY OF SAN MARCOS ENGINEERING DIVISION BORDEN ROAD SAN MARCOS, CALIF.	PROJECT NO. 124 SHEET NO. 124



100% SUBMITTAL



SEE SHEET 63 (L2.2)



SEE SHEET 64 (L2.3)

PLAN LEGEND:

- 1 EXISTING CONDITIONS - PROTECT IN PLACE (VEGETY IN FIELD AND WITH CIVIL, CHECK PRIOR TO CONSTRUCTION)
- 2 PROPOSED IMPROVEMENT (SEE CIVIL AND ELECTRICAL DWGS)
- 3 PROPOSED VEGETY (SEE CIVIL DWGS FOR ADDITIONAL SPECIFICATION AND PLANTING SCHEDULE)
- 4 LIMIT OF WORK (VEGETY EXACT LAYOUT PRIOR TO CONSTRUCTION)
- 5 EXISTING VEGETY (SEE ALL PLANTING DWGS)



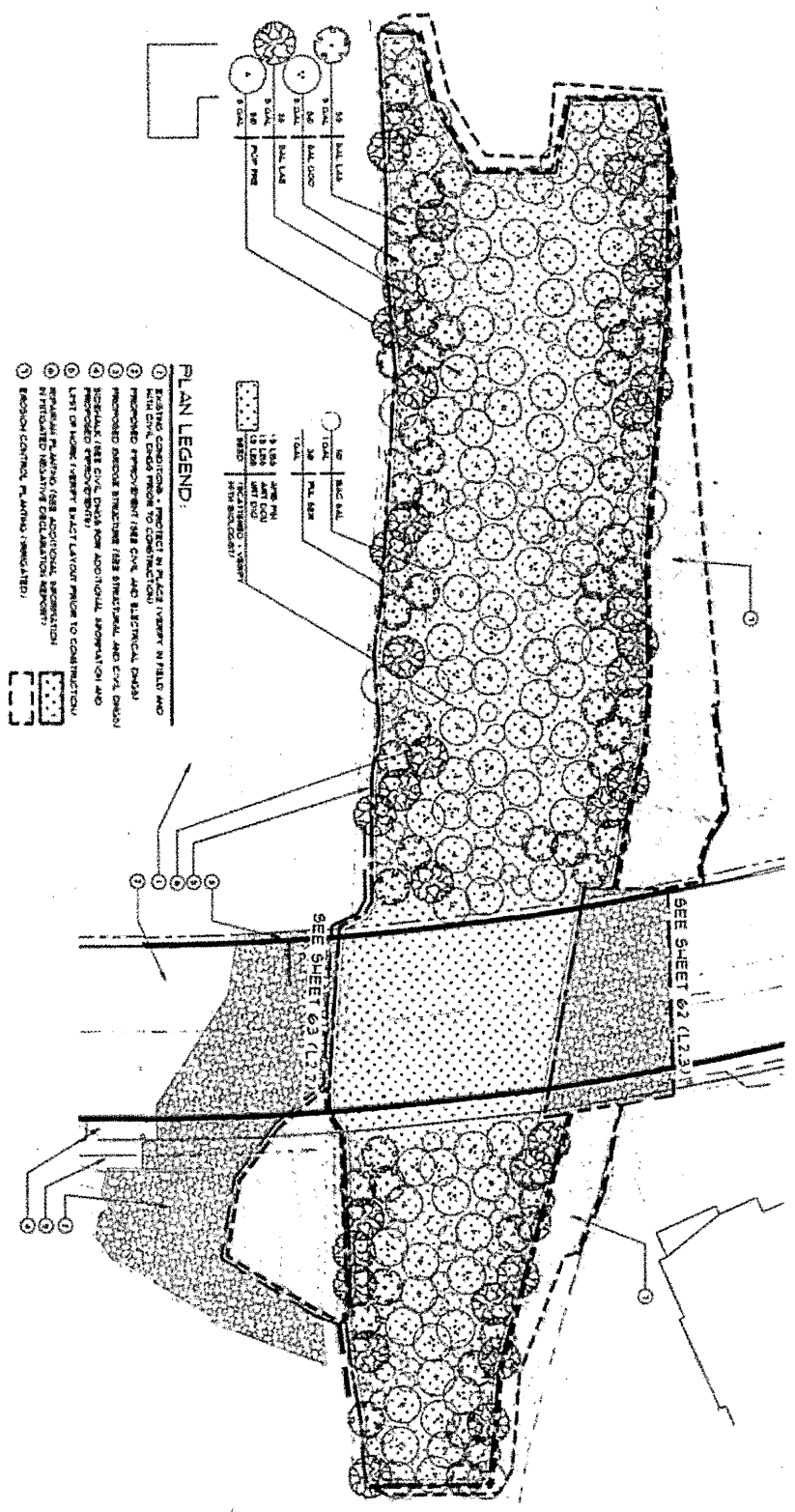
PLAN LEGEND:

- 1 EXISTING CONDITIONS - PROTECT IN PLACE (VEGETY IN FIELD AND WITH CIVIL, CHECK PRIOR TO CONSTRUCTION)
- 2 PROPOSED IMPROVEMENT (SEE CIVIL, STRUCTURAL OR ELECTRICAL DWGS)
- 3 PROPOSED VEGETY (SEE CIVIL DWGS FOR ADDITIONAL SPECIFICATION AND PLANTING SCHEDULE)
- 4 LIMIT OF WORK (VEGETY EXACT LAYOUT PRIOR TO CONSTRUCTION)
- 5 EXISTING VEGETY (SEE ALL PLANTING DWGS)

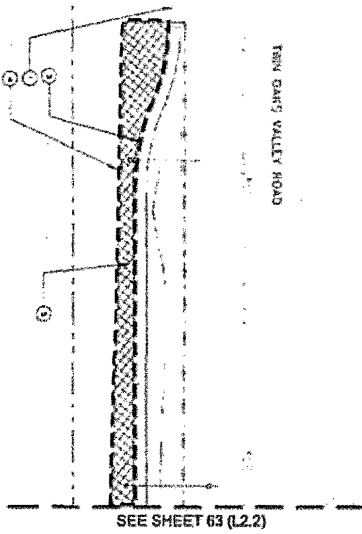


<p>A PLANTING PLAN SCALE 1"=10'-0"</p>		<p>B PLANTING PLAN SCALE 1"=10'-0"</p>		<p>L25</p>	
<p>DATE: 08/15/17</p>	<p>PROJECT: TWIN OAKS VALLEY ROAD AND WOODWARD STREET</p>	<p>DATE: 08/15/17</p>	<p>PROJECT: TWIN OAKS VALLEY ROAD AND WOODWARD STREET</p>	<p>DATE: 08/15/17</p>	<p>PROJECT: TWIN OAKS VALLEY ROAD AND WOODWARD STREET</p>
<p>DESIGNED BY: [Name]</p>	<p>CHECKED BY: [Name]</p>	<p>DESIGNED BY: [Name]</p>	<p>CHECKED BY: [Name]</p>	<p>DESIGNED BY: [Name]</p>	<p>CHECKED BY: [Name]</p>
<p>CITY OF SAN MARCOS ENGINEERING DIVISION</p>		<p>CITY OF SAN MARCOS ENGINEERING DIVISION</p>		<p>CITY OF SAN MARCOS ENGINEERING DIVISION</p>	
<p>17-4767</p>		<p>17-4767</p>		<p>17-4767</p>	

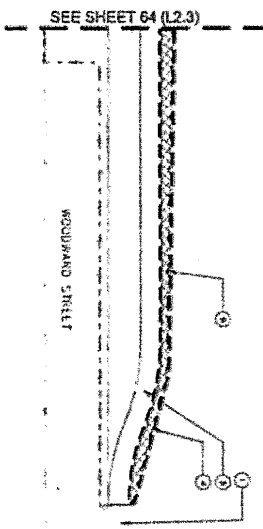
PLANTING PLAN LOCALS: 1"=20'					
NORTH 0 9 30 40					
PROJECT NO. 124 DATE: 12/15/17		CLIENT: CITY OF SAN MARCOS PROJECT: BORDEN ROAD SAN MARCOS CREEK		DRAWN BY: [Name] CHECKED BY: [Name]	
PROJECT LOCATION: BORDEN ROAD, SAN MARCOS, CA		PROJECT NO. 124		SHEET NO. 124	



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- PLAN LEGEND**
- ① EXISTING CONDITIONS - PROTECT IN PLACE (VERIFY IN FIELD AND HOLD CIVIL DATA PRIOR TO CONSTRUCTION)
 - ② PROPOSED IMPROVEMENT (SEE CIVIL AND ELECTRICAL DATA)
 - ③ RELOCATE / NEW CIVIL DATA FOR ADDITIONAL IMPROVEMENT AND PROPOSED IMPROVEMENTS
 - ④ LIMIT OF WORK (VERIFY EXACT LAYOUT PRIOR TO CONSTRUCTION)
 - ⑤ MARK YELLOW (VERIFY IN ALL PLANTING AREAS EXCEPT TALLENS AND SPANISH GRASS)



- PLAN LEGEND**
- ① EXISTING CONDITIONS - PROTECT IN PLACE (VERIFY IN FIELD AND HOLD CIVIL DATA PRIOR TO CONSTRUCTION)
 - ② PROPOSED IMPROVEMENT (SEE CIVIL, ELECTRICAL AND ELECTRICAL DATA)
 - ③ RELOCATE / NEW CIVIL DATA FOR ADDITIONAL IMPROVEMENT AND PROPOSED IMPROVEMENTS
 - ④ LIMIT OF WORK (VERIFY EXACT LAYOUT PRIOR TO CONSTRUCTION)
 - ⑤ MARK YELLOW (VERIFY IN ALL PLANTING AREAS EXCEPT TALLENS AND SPANISH GRASS)

			PLANTING PLAN SCALE 1"=10' NORTH 0 9 10		PROJECT NO. 12-22-20 SHEET NO. 12-22-20
					CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET
PLAN LEGEND				PLAN LEGEND	
① EXISTING CONDITIONS - PROTECT IN PLACE (VERIFY IN FIELD AND HOLD CIVIL DATA PRIOR TO CONSTRUCTION) ② PROPOSED IMPROVEMENT (SEE CIVIL AND ELECTRICAL DATA) ③ RELOCATE / NEW CIVIL DATA FOR ADDITIONAL IMPROVEMENT AND PROPOSED IMPROVEMENTS ④ LIMIT OF WORK (VERIFY EXACT LAYOUT PRIOR TO CONSTRUCTION) ⑤ MARK YELLOW (VERIFY IN ALL PLANTING AREAS EXCEPT TALLENS AND SPANISH GRASS)				① EXISTING CONDITIONS - PROTECT IN PLACE (VERIFY IN FIELD AND HOLD CIVIL DATA PRIOR TO CONSTRUCTION) ② PROPOSED IMPROVEMENT (SEE CIVIL, ELECTRICAL AND ELECTRICAL DATA) ③ RELOCATE / NEW CIVIL DATA FOR ADDITIONAL IMPROVEMENT AND PROPOSED IMPROVEMENTS ④ LIMIT OF WORK (VERIFY EXACT LAYOUT PRIOR TO CONSTRUCTION) ⑤ MARK YELLOW (VERIFY IN ALL PLANTING AREAS EXCEPT TALLENS AND SPANISH GRASS)	
CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET				CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET	
SCALE 1"=10' NORTH 0 9 10				SCALE 1"=10' NORTH 0 9 10	
PROJECT NO. 12-22-20 SHEET NO. 12-22-20				PROJECT NO. 12-22-20 SHEET NO. 12-22-20	
CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET				CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET	
SCALE 1"=10' NORTH 0 9 10				SCALE 1"=10' NORTH 0 9 10	
PROJECT NO. 12-22-20 SHEET NO. 12-22-20				PROJECT NO. 12-22-20 SHEET NO. 12-22-20	
CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET				CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET	
SCALE 1"=10' NORTH 0 9 10				SCALE 1"=10' NORTH 0 9 10	
PROJECT NO. 12-22-20 SHEET NO. 12-22-20				PROJECT NO. 12-22-20 SHEET NO. 12-22-20	
CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET				CITY OF SAN MARCOS ENGINEERING DIVISION TWIN OAKS VALLEY ROAD AND WOODWARD STREET	

USACE Email.txt

From: Van Sant, Richard SPL <Richard.J.Vansant@usace.army.mil>
Sent: Friday, March 01, 2013 7:41 AM
To: Monji, Alan@waterboards
Subject: RE: Borden Road Bridge - restrictive covenant (UNCLASSIFIED)
Attachments: 1.pdf

Classification: UNCLASSIFIED
Caveats: NONE

Hey Alan,

Here is the explanation:

Our counsel is currently reviewing the RC for Borden Road Bridge and cannot finalize due to a discrepancy between the Corps permit and the 401 cert. Both permits require the same mitigation; however, the Corps is not requiring a deed restriction or other conservation mechanism on the 2.67 acre riparian scrub enhancement section of the mitigation because that land is not owned by the City. We wanted them to perform enhancement activities on it anyway because it is adjacent to the creek, but we knew going in that it would never have a deed restriction over it. Take a look at Special Condition 6 of the Corps permit (attached). Condition E14 of the 401 cert states that a conservation mechanism must be placed on ALL mitigation areas. I believe this was an oversight and should have excluded the 2.67 acre riparian scrub enhancement area. Unfortunately, this discrepancy is not allowing our counsel to finalize the RC. If this was an oversight, would you be able to amend the 401 cert to exclude a conservation mechanism on this section?

Regards,
R.J.

*** Please note, I will be out of the office March 13 - 29 ***

~~~~~  
R.J. Van Sant  
Project Manager/Biologist  
U.S. Army Corps of Engineers  
Regulatory Division  
6010 Hidden Valley Road, Suite 105  
Carlsbad, CA 92011  
PH: (760) 602-4837  
richard.j.vansant@usace.army.mil

Please be advised that you can now comment on your experience with Regulatory Division by accessing the Corps web-based customer survey form at:  
<http://per2.nwp.usace.army.mil/survey.html>

-----Original Message-----

From: Monji, Alan@waterboards [mailto:Alan.Monji@waterboards.ca.gov]  
Sent: Thursday, February 28, 2013 5:00 PM  
To: Van Sant, Richard SPL  
Subject: RE: Borden Road Bridge - restrictive covenant (UNCLASSIFIED)

Hey RJ

USACE Email.txt

Could you remind me of what you wanted amended in the cert and why. I have been slowly filing my paper files into our electronic filing system and I think Borden was one I did recently. Also I probably lost your original email when we switched email systems.

Alan T. Monji  
Environmental Scientist  
San Diego Regional Water Quality Control Board  
9174 Sky Park Court, Suite 100  
San Diego, CA 92123  
Phone: 858-637-7140  
FAX: 858-571-6972

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-----Original Message-----

From: Van Sant, Richard SPL [mailto:Richard.J.Vansant@usace.army.mil]  
Sent: Tuesday, February 19, 2013 3:37 PM  
To: Monji, Alan@waterboards  
Subject: RE: Borden Road Bridge - restrictive covenant (UNCLASSIFIED)

Classification: UNCLASSIFIED  
Caveats: NONE

Hi Alan,

Have you had a chance to amend the 401 for Borden?

Regards,  
R.J.

~~~~~  
R.J. Van Sant
Project Manager/Biologist
U.S. Army Corps of Engineers
Regulatory Division
6010 Hidden Valley Road, Suite 105
Carlsbad, CA 92011
PH: (760) 602-4837
richard.j.vansant@usace.army.mil

Please be advised that you can now comment on your experience with Regulatory Division by accessing the Corps web-based customer survey form at:
<http://per2.nwp.usace.army.mil/survey.html>

-----Original Message-----

From: Van Sant, Richard SPL
Sent: Monday, September 24, 2012 5:54 PM
To: 'Alan.Monji@waterboards.ca.gov'
Cc: Van Sant, Richard SPL
Subject: Re: Borden Road Bridge - restrictive covenant (UNCLASSIFIED)

Sorry, I forgot to attach it. Yes, I am talking about the 0.267 ac not under City control. It's not a huge hurry to get it amended but we can't get the easement finalized until its done. Let me know when you get around to it. Thanks

R.J. Van Sant

USACE Email.txt

U.S. Army Corps of Engineers
Regulatory Division

From: Monji, Alan@waterboards [mailto:Alan.Monji@waterboards.ca.gov]
Sent: Monday, September 24, 2012 10:02 AM
To: Van Sant, Richard SPL
Subject: RE: Borden Road Bridge - restrictive covenant (UNCLASSIFIED)

Hi RJ:

I don't see the attachment. I can do an amendment but it can be several months away.
Also are we talking about the 0.267 acres not under the City Control?

Do you need to get this out ASAP? I have 3 amendment requests on my desk right now. One I should work on and the other 2 I probably can push back.

Alan T. Monji
Environmental Scientist
San Diego Regional Water Quality Control Board
9174 Sky Park Court, Suite 100
San Diego, CA 92123
Phone: 858-637-7140
FAX: 858-571-6972

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From: Van Sant, Richard SPL [mailto:Richard.J.Vansant@usace.army.mil]
Sent: Friday, September 21, 2012 3:52 PM
To: Monji, Alan@waterboards
Subject: Borden Road Bridge - restrictive covenant (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hey Alan,

Our counsel is currently reviewing the RC for Borden Road Bridge and cannot finalize due to a discrepancy between the Corps permit and the 401 cert. Both permits require the same mitigation; however, the Corps is not requiring a deed restriction or other conservation mechanism on the 2.67 acre riparian scrub enhancement section of the

USACE Email.txt

mitigation because that land is not owned by the City. We wanted them to perform enhancement activities on it anyway because it is adjacent to the creek, but we knew going in that it would never have a deed restriction over it. Take a look at Special Condition 6 of the Corps permit (attached). Condition E14 of the 401 cert states that a conservation mechanism must be placed on ALL mitigation areas. I believe this was an oversight and should have excluded the 2.67 acre riparian scrub enhancement area. Unfortunately, this discrepancy is not allowing our counsel to finalize the RC. If this was an oversight, would you be able to amend the 401 cert to exclude a conservation mechanism on this section?

Regards,

R.J.

R.J. Van Sant

Project Manager/Biologist

U.S. Army Corps of Engineers

Regulatory Division

PH: (760) 602-4837

richard.j.vansant@usace.army.mil

Please be advised that you can now comment on your experience with Regulatory Division by accessing the Corps web-based customer survey form at:
<http://per2.nwp.usace.army.mil/survey.html>

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE

Classification: UNCLASSIFIED
Caveats: NONE