

Environmental Protection

California Regional Water Quality Control Board

San Diego Region

Over 50 Years Serving San Diego, Orange, and Riverside Counties
Recipient of the 2004 Environmental Award for Outstanding Achievement from USEPA

Edmund G Brown Jr.

9174 Sky Park Court, Suite 100, San Diego, California 92123-4353 (858) 467-2952 • Fax (858) 571-6972 http://www.waterboards.ca.gov/sandiego

June 2, 2011

Certified Mail – Return Receipt Requested Article Number: 7010 1060 0000 4952 8058

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

In reply refer to: 738365: amonji

Subject: Action on Request for Clean Water Act Section 401 Water Quality Certification for the Borden Road and Bridge Project, Water Quality Certification No. 09C-041

Dear Mr. Jerry Backoff:

Enclosed find Clean Water Act section 401 Water Quality Certification and acknowledgment of enrollment under State Water Resources Control Board Order No. 2004-004-DWQ for discharge to non-federal waters of the State for the **Borden Road and Bridge Project** (Project). A description of the Project and Project location can be found in the project information sheet, project location map, and project site maps, which are included as Attachments 1 through 5 to this certification.

Any petition for reconsideration of this Certification must be filed with the State Water Resources Control Board within 30 days of certification action (23 CCR § 3867). If no petition is received, it will be assumed that you have accepted and will comply with all the conditions of this Certification.

Failure to comply with all conditions of this Certification may subject you to enforcement actions by the California Regional Water Quality Control Board, San Diego Region, including administrative enforcement orders requiring you to cease and desist from violations, or to clean up waste and abate existing or threatened conditions of pollution or nuisance; administrative civil liability in amounts of up to \$10,000 per day per violation; referral to the State Attorney General for injunctive relief; and, referral to the District Attorney for criminal prosecution.

In the subject line of any response, please include the requested "In reply refer to:" information located in the heading of this letter. For questions pertaining to the subject matter, please contact Alan Monji at (858) 637-7140 or amonji@waterboards.ca.gov.

Respectfully,

DAVID W. GIBSON Executive Officer

Paul W. Ke

Enclosures:

Clean Water Act Section 401 Water Quality Certification No. **09C-041** for **Borden Road and Bridge Project**, with 5 attachments

cc: Refer to Attachment 2 of Certification 09C-041 for Distribution List.

Tech Staff Info & Use				
File No.	09C-041			
WDID	9000001931			
Reg. Measure ID	366145			
Place ID	738365			
Party ID	369584			
Person ID 50887				



California Regional Water Quality Control Board

San Diego Region

Linda S. Adams Acting Secretary for Environmental Protection

Over 50 Years Serving San Diego, Orange, and Riverside Counties Recipient of the 2004 Environmental Award for Outstanding Achievement from USEPA



9174 Sky Park Court, Suite 100, San Diego, California 92123-4340 (858) 467-2952 • Fax (858) 571-6972 http://www.waterboards.ca.gov/sandiego

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:

☐ Order for Low Impact Certification	☐ Order for Denial of Certification
☑ Order for Technically-conditioned	☐ Waiver of Waste Discharge
Certification	Requirements
☑ Enrollment in SWRCB GWDR	☐ Enrollment in Isolated Waters Order
Order No. 2003-017 DWQ	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 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. 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

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 <u>all</u> 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.
- 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 an 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.
- 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/gapp/gaprp082209.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. <u>Volume</u>: 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. <u>Flow</u>: Flow-based BMPs must be designed to mitigate (infiltrate, filter, or treat) either:
 - 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/guid ance/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

6-3-2011

Date

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

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



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

PROJECT INFORMATION					
entille transporter (1994) en	- 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



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			

Public Notice

Water Board Public Notice: Information regarding this project was noticed on the San Diego Water Board's website on 6/1/2010. $\sqrt{}$ 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
	Tributary to San Marcos Creek (HSA 904.51)
Receiving Water(s):	→ 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 Type(s):	Riparian, Streambed, and Wetland

			Designa	ited	Benefic	ial U	lse(s)	1	The state of the 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	210	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, Sources of Drinking Water Policy.	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 (Vireo bellii pusillus)

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, <u>SVandrew@ci.san-marcos.ca.us</u>, 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.

NEPA and/or CEQA Compliance					
Document type: Mitigated Negative Declaration					
City of San Marcos Lead Agency: 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:

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.

Final Pro	ject Impa	icts (Fil	l)*		energy .	
Waterbody Type	Po	ermanent		Temporary		
	Acres**	Linear Feet	Cubic Yards	Acres**	Linear Feet	Cubic Yards
Riparian - Southern cottonwood-willow riparian forest - Southern willow scrub	0.198	167	<u> </u>	0.185	142	-
Wetland	0.036	127	-	-	-	-
Streambed- unvegetated channel	0.079	235	_	-	_	-
TOTALS	0.313	_	_	0.185	_	-

^{*} 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).



	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	-	-	-	-	-	-	
CDFG Jurisdiction Only	-	-	-	-	-	-	

^{*} For projects that will occur annually please provide the total volume to be dredged for the entire certification period (typically 5 years).

^{***} Provide acres to three decimal places (e.g., 0.006).

		Imp	oact Com	parison'	•			100
		F	ill .			Dre	dge	
	Perm	anent	Tem	oorary	Perm	anent	Tem	porary
	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Impacts (Acres)**	-	_	_	-	-	-	-	_

^{*} Include impacts to both federal and non-federal waters.

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.

^{**} 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).



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	Ac Estab	res lished	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	-	-	-	-			



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

	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.	и
Name of Watershed & Hydrologic Unit:	Watershed = San Marcos Creek, Hydrologic Unit = Carlsbad, Area = San Marcos, Subarea = Richland	и
Mitigation Site City and County:	City of San Marcos, San Diego County	"

	Bank 1	Bank 2
Mitigation Bank Name:	Not Applicable	Not Applicable
Name of Mitigation Bank Operator:	"	u
Address of Mitigation Bank Office:	н	u
Mitigation Bank Location(s):	ű	u
Mitigation Bank Lat/Long(s)	"	u
Name of Watershed & Hydrologic Unit:	"	и
Mitigation Bank City and County:	. "	u
Mitigation purchase amount (\$):	u	"



	Program 1	Program 2
Name of approved in-lieu fee mitigation sponsor:	Not Applicable	Not Applicable
Address of In-lieu mitigation sponsor:	ii	u
Description of in-lieu mitigation arrangements:	и .	"
In-lieu mitigation location:	66	и
In-lieu mitigation Lat/Long(s);	í.	u.
In-lieu mitigation City and County:	· «	ű
Name of Watershed & Hydrologic Unit	Ľ.	u

Additional Mitigation Information (Proponent, Bank, or In-Lieu)					
	Site 1	Site 2			
Mitigation Site Name:	Not Applicable	Not Applicable			
Name of Mitigation Site Operator:	ű	и			
Address of Mitigation Site Office:	и	и			
Mitigation Site Location(s):	и	и			
Mitigation Site Lat/Long(s)	4	и			
Name of Watershed & Hydrologic Unit:	"	и			
Mitigation Site City and County:	ű	ss			
Mitigation purchase amount (\$):	4.	u.			

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.l.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

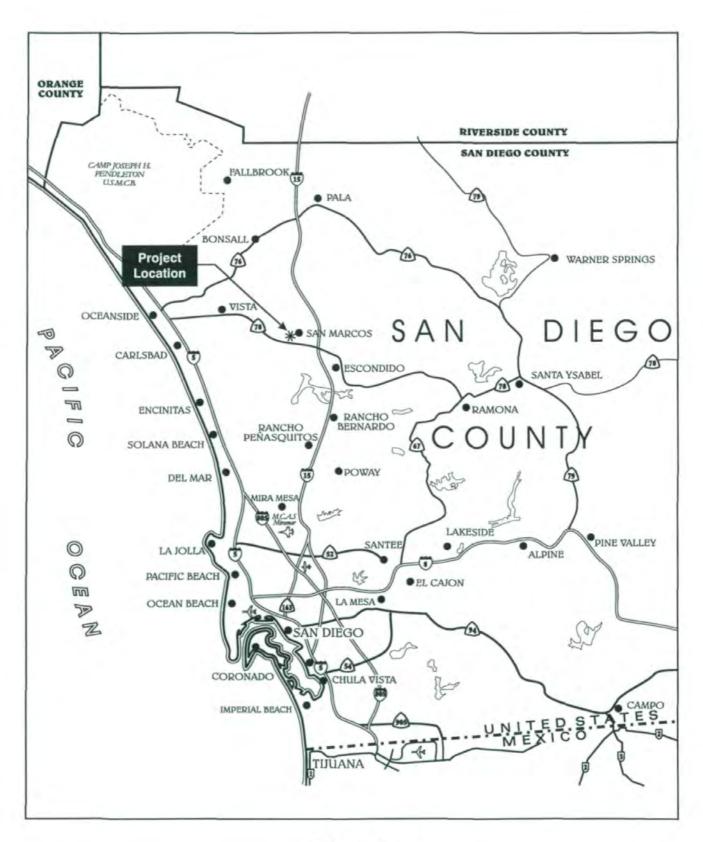


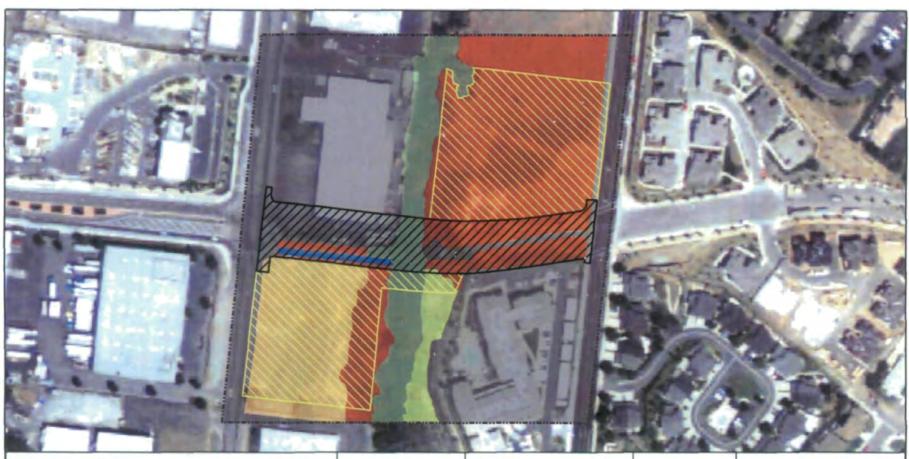
Figure 1 Regional Location Map





Regional

ATTACHMENT 4 SITE and MITIGATION MAPS



VEGETATION/LANDCOVER		IMPACT ACREAGES		
CL	ASSIFICATION	Permanent	Temporary	
96	Unvegetated Channel	0.079	None	
96	Developed	0.724	0.136	
95	Non-Native Grassland	0.016	1,348	
96	Ruderal	0.761	2.573	
96	Southern Cottonwood-Willow Riparian Forest	0.182	0.066	
95	Southern Willow Scrub Revegetation Area	0.005	0.062	
	Total	1.767	4,175	

OTHER FEATURES

Study Area

Permanent Impact Limit

Temporary Impact Limit

NOTES

- Digital base data provided by Simon Wong Engineering.
- USDA, NAIP Aerial Imagery, 1-m resolution San Diego County, 2005.
- Graphic prepared by Foothill Associates
 GIS Division (Drawn by EME/SWD, 9/29/06)
- Riparian area in northern temporary impact zone will be avoided, and the acreage is not included in temporary impact calculations.
- Fliename = Impacts.mxd



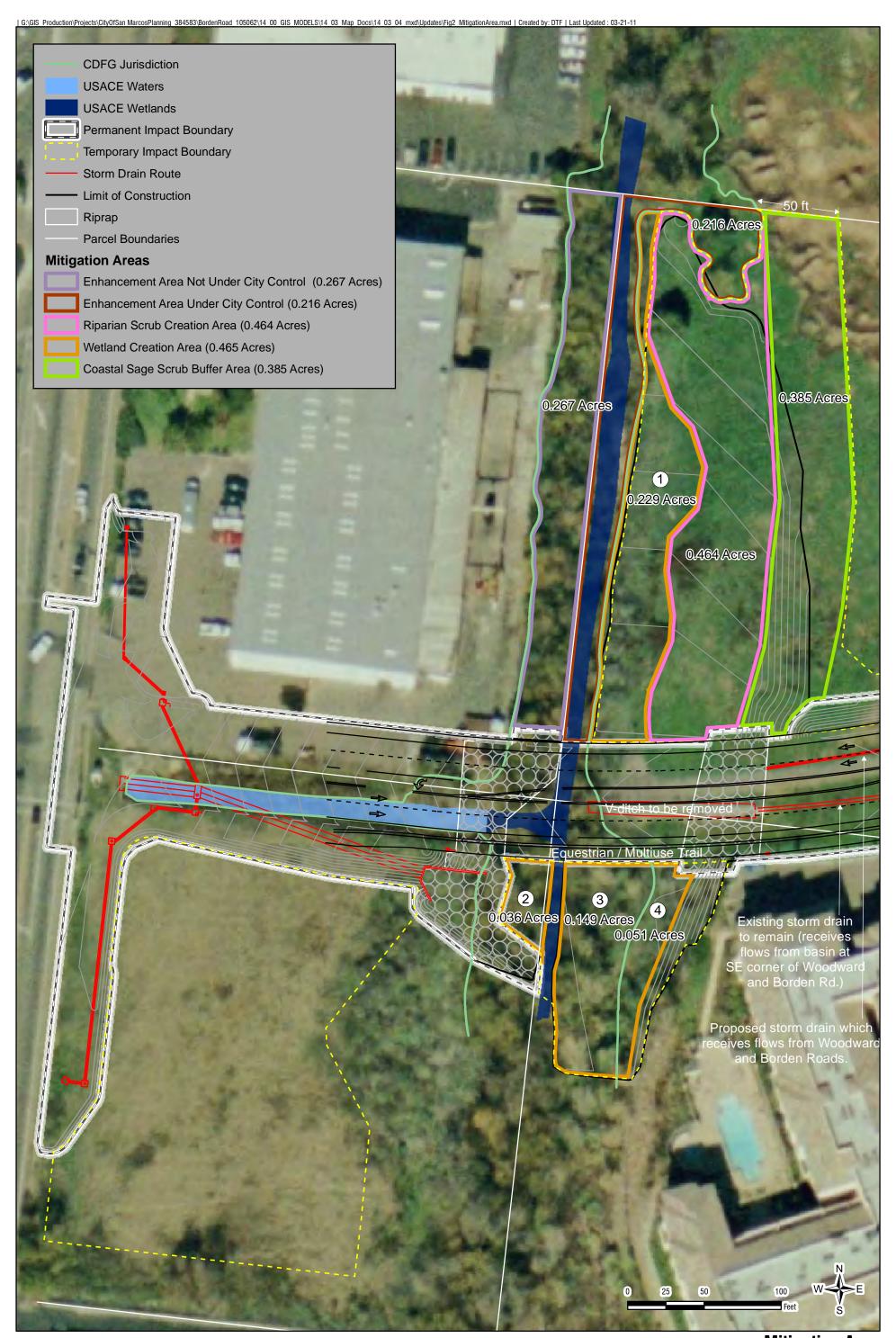
SCALE IN FEET

FIGURE 3

BORDEN ROAD EXTENSION

IMPACTS TO BIOLOGICAL RESOURCES





ATTACHMENT 5 IMPROVEMENT PLANS FOR BORDEN ROAD

R ---

6/4

ATM

- 90

PL-

0

.

IMPROVEMENT NOTES

- THE CONTROLLY SHELL METERS THE CITY'S PUBLIC MINES INFORMED ASHINGED REPRESENTED AN ARREST THE THE SECOND TO SERVE AT LITTLE TREETON.

- THE CONTROL OF A C
- "49 Birs.1" STATINGS SHOUL RE SEARCHES AN THE SEARCHEST FOR ALL SAMESHED STRUCK TO ASSETSANCE OF SAME SAMESHED IN ASSESSMENT, WITH THE SEARCH SECRECATE ...
- CHARGE BALL M REPRESELT FOR 41 CHARGETON ACCOUNTS TO THEM PLANT, THE CITY'S PRACTIC SPARSHALL AND ACCOUNTS OF PRESENTING THE PLANT OF CHARGE OF ACCOUNTS OF THE PROPERTY OF THE CONTROL OF THE PLANT OF A PROPERTY OF THE PLANT OF THE PLA
- IN CONTROL BY A STREET, IN STREET
- VALUE OF CHARGE IS RESIDED IN ALL SHEET FILL HEAD.
- ALL MALE SPECIALLY SHOW AN INCIDE SPECIALIZED PLANS SHALL BE CHESTOCKED TO THE CATEFACTION OF THE MALE ARMED STREETS PRINT TO ASSESSED BY THE COST.

- THE CHARGEST HE ITS THROPPINGTON, THILL CHARLY WITH KINCHE, CHEMICKING STATEMEN, HE THE PROJECT AND ARE SPECIFICATIONS.
- THE CONTROLLER SHALL BE REPORTED FOR THE HISTORICAL BELIEVED AN HERACEMENT OF HIS STRUCKED, STIMMING OF THEFT DETECTION LODGE COMES AS TELEVISION OF THE PLANE.
- OUT CHINE MARKE, DATE AS TO RESIDED SETTING DOWN OF THE BARE AND CONTROL MEAN, SHALL HE ATT STATES CARRIED ARRAY BESTELLING TO THE PARK SERVICE ARRAY BESTELLING THE TARK SERVICE ARRAY BESTELLING THE PARK SERVICE ARRAY BESTELLING TO T
- THE DISPRETED IN REPORTED FOR ADMINISTRANCE CONTINUE PARKET SPECTS AND PROPERTY AND A A LOSS AND
 AUST FIRE CONSTITUTE REPORT FOR RELEVANCES OF THE CITY ARMOTHM, COSE SECTION IN LINEAR "SLALEST
 ADMINISTRANCES "PROPERTY." FOR SECTION OF THE COSE PROMISTRANCE WAS "RECORDER SOME" OF A SPECT SOON A PARKET
 ADMINISTRANCE OF THE SECTION OF THE COSE PROMISTRANCE WAS "RECORDER SOON" OF A SPECT SOON A PARKET
 ADMINISTRANCE OF THE SECTION OF THE COSE PROPERTY OF THE SECTION OF TH
- IL THE CONTRACTOR IS SOLD, I REPORTED FOR CONTRACTOR OPERATION OF THE WALKET.
- He discharge less, tilled legt out country expression, ny on an ite countries belon he count at preparation of the least, socialism sorth or all reliance any metrics, has executed heigh ever beaut. He couldn't be form, our countries countries are not all properties that countries this till reliable to the countries of the countries or not all properties. He has already to countries this till reliable to the countries of the countries of the countries of the countries this till reliable to the countries of the countries of the countries of the countries of the countries the till reliable to the countries of the countries o
- CHILDRE CHIEFE, TOULISING NEW YORK, THE READY PROTECTION, SUPERMIT OF SHEEL CHIEFER AND ASSESSMENT OF THE CHIEFER SHEEL ASSESSMENT OF THE CHIEFER SHEEL ASSESSMENT OF THE CHIE
- The contractors area, contract operations to the water south and contractors are contracted with individual resources and contract of the cont
- CONTRACTOR NO PROVIDE ACCUSAN MOTING TO PROMPTITE DRAPPS TO ARRY MONINGS. I SURF PROVIDE TO EXAMINE MINE IN
- SPECIO ACTION SHALE MININGS FOR A LOSS, SITE. COPATO ACTION, SHALE & GLUCOSO IS A LOS

REFERENCE DRAWINGS:

PERSONAL PARKS PARKS

RBF CAPLINAS, CALIFORNIA BINE CIRCUIT + THE THE APPLICATE + MANUFACE VALLETTES WATER DISTRICT. Tee Books

OTT APPROVED CHANCES

Dist II Splings, Associate Did Depter CT - 50143 apr. 56/30/2010

Public States Street,

A. O. Carrier

CITY OF SAN MARCOS ENGINEERING DIVISION MERCADONI PLANS FOR **BORDEN ROAD**

Oly Drowing No. IP-4767 Doort 1 of

CITY OF SAN MARCOS

IMPROVEMENT PLANS FOR BORDEN ROAD CIP No. 271

BETWEEN TWIN OAKS VALLEY ROAD AND WOODWARD STREET

VALLECITOS WATER DISTRICT GENERAL NOTES

- ALL BYES HE STATE LIKE SHALL IN INSTALLED ACCORDING TO BE COMPUTE THE BEST FRAMEWOOD STATEMENT SHADOWS AND A CONTROL BY THE CONTROL OF THE CO
- MUSIC HES SHALL HAVE A MINIMAN CONCE OF SE DADRES. MERER LINES SHALL HAVE A MINIMAN STATE OF SE
- NET OF THE PROPERTY OF THE PROPERTY SHEETS NAMED AND SHEETS SHEETS SHEETS SHEET SHEETS MUZ SWITER OWN, IL WITE SENICT BUTE AK STOPPED
- SCHOOL HE DESIGN, USER, HE HE HELICITE WITH RESPECT SHALL BE REPORTED FOR THE
- A PRIMERRATION CHANGE METTING BYTH BULLECTUS WITH STRINGS PROBABLE WALL WINDOW ST (3) WHICH SHE SHE PROBABLE TO CAMPING THE
- A SINKE BY OF IMPRODUCE FLAND DRES NOT LIVELY THAT CONSTRUCTION MAY RESILE. THE CONTRACTOR MAY RESILE. THE MALESTERS AND RESIDENCE CONSTRUCTION AND RESIDENCE.

- CONTRACTORS REPORTE IN THE PUBLIC PUBLIC FORCE DAIL, GETAIN & SCHARLE CHICAGONATHY FORCE SCHAFFER FORCE FOR AN ADDRESS CHICAGON OF ALL ARMS IN ACCURATION.
- SCHOOL WILL FROM LEGISTE, ME CHANT JE, LETTITE CARE MEMORITOR DESCRIPTION OF MEMORITOR OF SCHOOL PROPERTY OF A SCHOOL PROPERTY OF MEMORITOR OF MEMORITOR OF A SCHOOL PROPERTY OF
- IC. A RACTOR PLAN DALL M. SERVING FOR EXPENCE APPROACH THESE TO THE USE OF EXPLICACE MARK
- WE STREET THIS IS CONTRACTED TO SEE MAKE MIGHT TO INCREASE OF THE PARKE MATER AT STREET
- IN. THE COMPACTOR SHIPL, TOTAL TOTAL MALLOCT AND THE RESPONSE AND HET MACHINE STREET HEAVEN
- FOR CONSISTION OF THE MER MAINS DISTON IN THE CONSTINUT THIRD, ALL MAINS ON THE STREET WAS STREET PROBLEMS, THE STREET WHITE THE STREET PROBLEMS, THE STREET WITHOUT STREET, AND STREET WITHOUT STREET, AND STREET WAS A STREET, AND STREET WITHOUT STREET, AND STREET WAS A STREET, AND S
- INCID STORES DOWN DOOR LATERLY HE HAVE STRIKED DWG AS NO STATISTICAL IN THE

- ALL WITHOUT DAIL HE SCRUEN BUT ATTHE BY MEDIUM BATHS OF THE RESIDE.
- ALL SERVICESSES SHALL BE CONSIDERED TO A WHICH PROPERTY (3') OFFICE (TO THE PERFORM AT PROPERTY LIKE AND SHALL BE CALLED DESCRIPTION OF THE ANALYSIS AND AN SHALL BE CALLED THE ANY "S" ON THE CONSIDERATION OF THE ANALYSIS AND ANY CONSIDERATION OF THE ANY SHALL BE CALLED TO THE ANY SHALL BE C

DECLARATION OF RESPONSIBLE CHARGE

SWOTH IN SHELL HIS ROOMS EUP, A/20/10 SWS:



SHEET INDEX

BASIS OF BEARING

BYON, OF BEHING PER MADES NO. 1625 AND 1077 OF BYONG OF BENING PER MICOND OF SURVEY NO. 12828 WARRING WITH MICH. 1877

GEOTECHNICAL ENGINEER CERTIFICATE

XXXXV A VETTEL 10C 2401 EVF. 08/30/10 56/70.

DIE UTUTY PLANE

CARLESON I WANTED

HOM, CLOM & DRIN ON MILES SHADING

SOM - BORDEN TO, A WOODWARD ST SOME A STREME

CTON DINK PLAY & PRIPARS

ABBREVIATIONS

ASPECIATE DATE
ASPECIATE DATE
ASPECIATE CONCRETE
CONTROL OF THE
COURSE O

WORK TO BE DONE

EXTERNAL PROPERTY LINE

STEP OF MAY LINE

EXISTING RIGHT OF MAY LINE

MIDIE SLPEN STRUCTURE CORN CAPTURED CHARGE THE RE LAND

SANCE CHISTON PRODUCT

IS" STORY DRAIN FORE (ROP)

THE "S-1" DAME DIGET

to first outwart (pvt)

CLIMENT TE BARRIER W/ METAL BAILING METAL BEAM BLANDRAIL (THRE SHOWS IN PLANE)

CONCRETE BARRIER (THPE SHEWS DV PLANS)

HIP HAP EACHUT DISCHATOR INVESTOR D-40
DELTE HAD THEODHESS SHOWN ON PLANE) INCCTION REQUIREMENTS)

24" SO STATE DATE

METHINALLED FENCE

EXTEND CONCOUR

EXTERNO BOTW

EXISTING PENED

EXCITING BATTR.

EVERTISE THREE AIR SHOWS

EXISTING EDGE OF PANEMENT

DODTING 6", V.C.P. DOOR

EXISTING TELECOMARKICATIONS

ADJUST DV. MATER VALVE TO ISSUE

PRINTING AT MICH. CAS.

EVITTING ELECTRICAL

EXISTING YOR HURSAY FIRE APPROVE ASSESSED IN LATERAL

8" SLOW OFF

DOSTING NAME OF

CLARS HELIGHT SHOWN ON PLACE)

AE PAVING [5" AC/8.5" IL 2 AGGREGATE BASE (MASE)

"LITHOCHETE" SEEDED OCCOMPUNED SHAKITE SUPPLIES STARL CRIB OCCUPANICO GRALITE RISERALE

50450 B-2

MW00 0-760

10905-5-2

8 8 361 副副

COUNTY OF SAN DIEGO LOCATION

455.

HYDROLOGY/HYDRAULIC REPORT SOURCE OF TOPO THE HOMELOS! PROMINES METURE WILL THE THE BY AND THE THREE BY AND THREE THREE STATES

* LÉSING NOT FOLLOWED IN SHEETS 27-66

TITLE SHEET

5005 W-14 & W-16

WD #-4 8 #-0

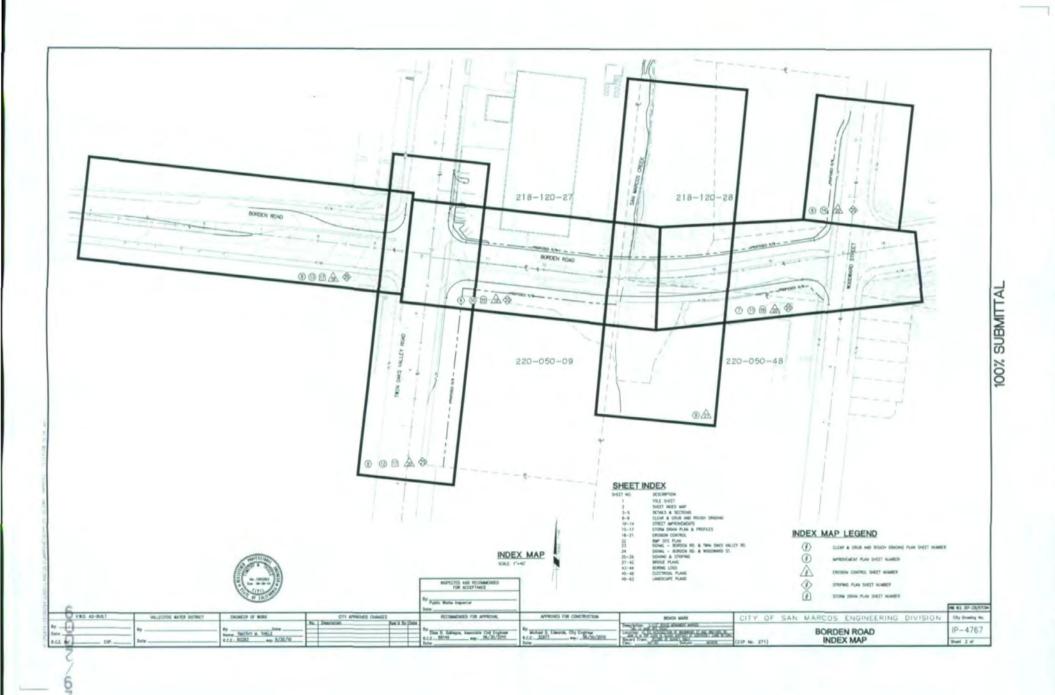
VID # (2)

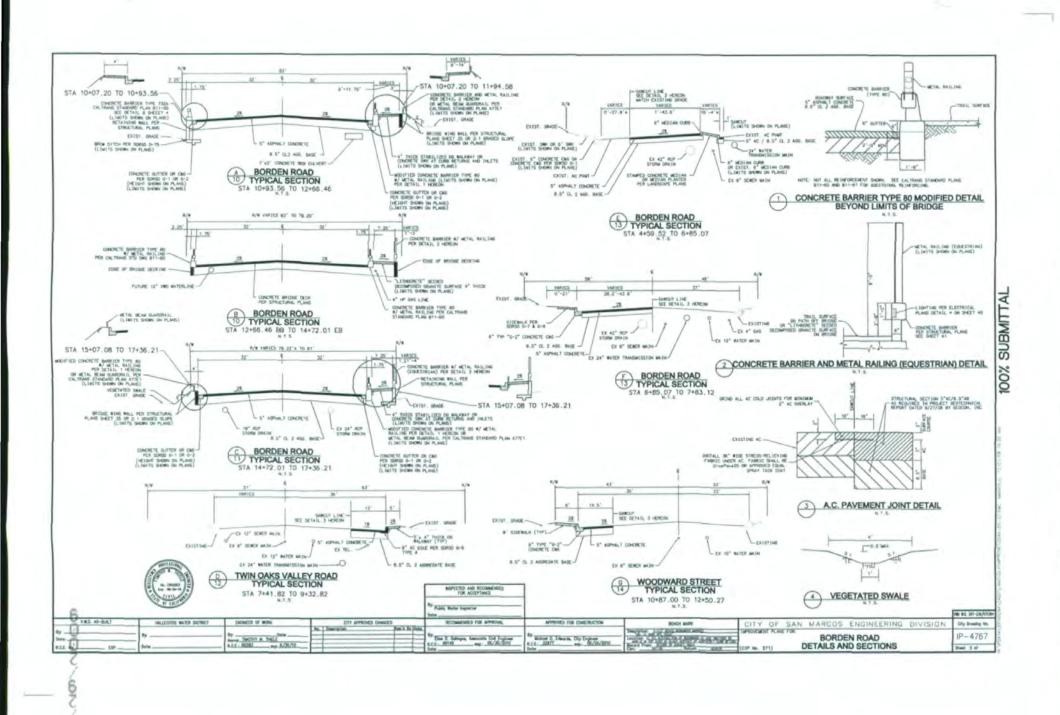
mb No. 201-126/6759

CMS. 45-804.7

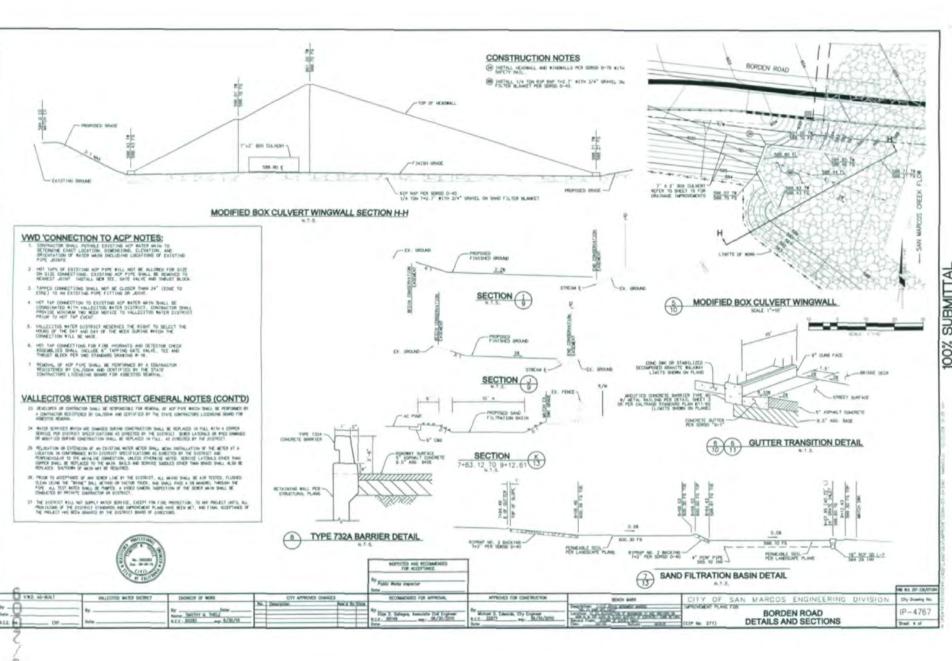
Back In Date

By Michael G. Edwards, City Engineer a.c.t. 2277 von 18/30/2000

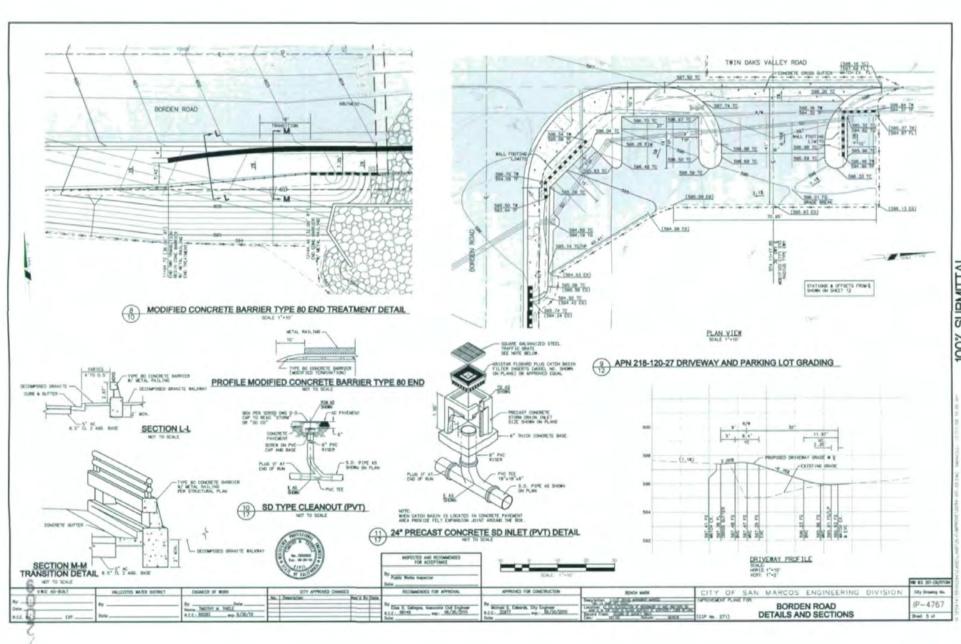


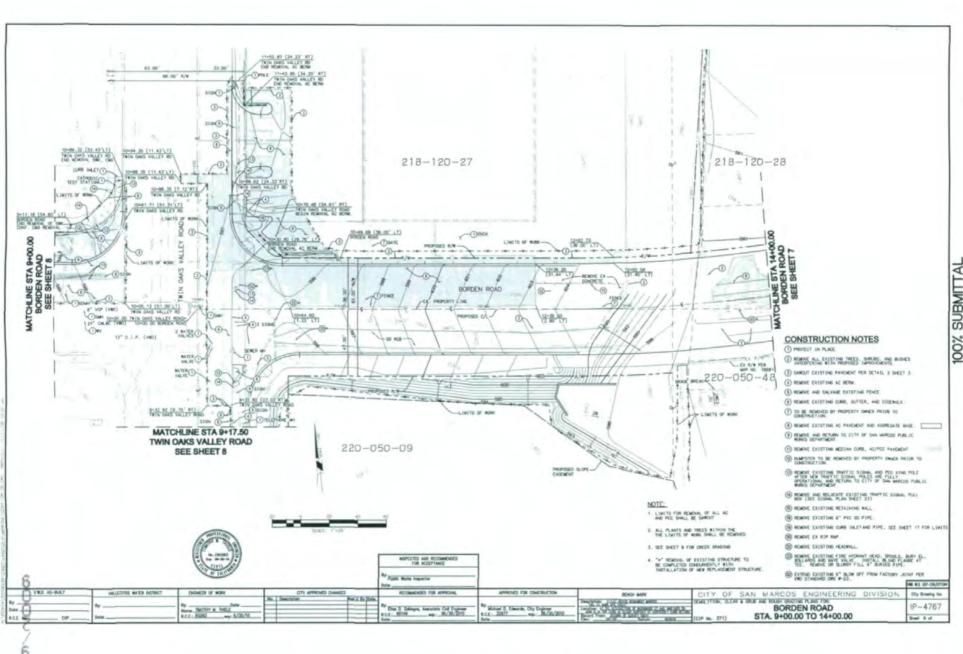


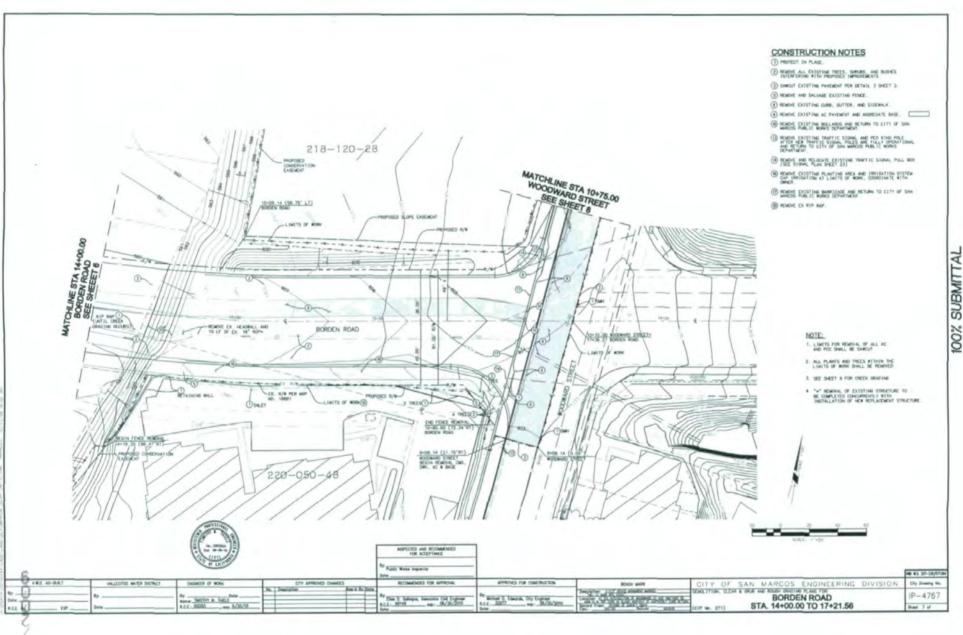


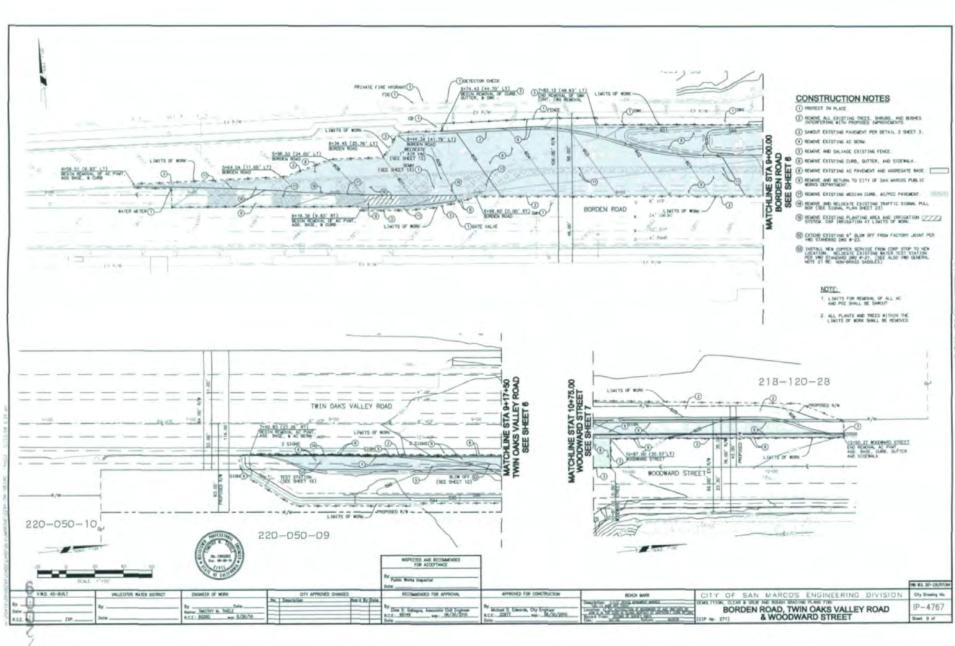


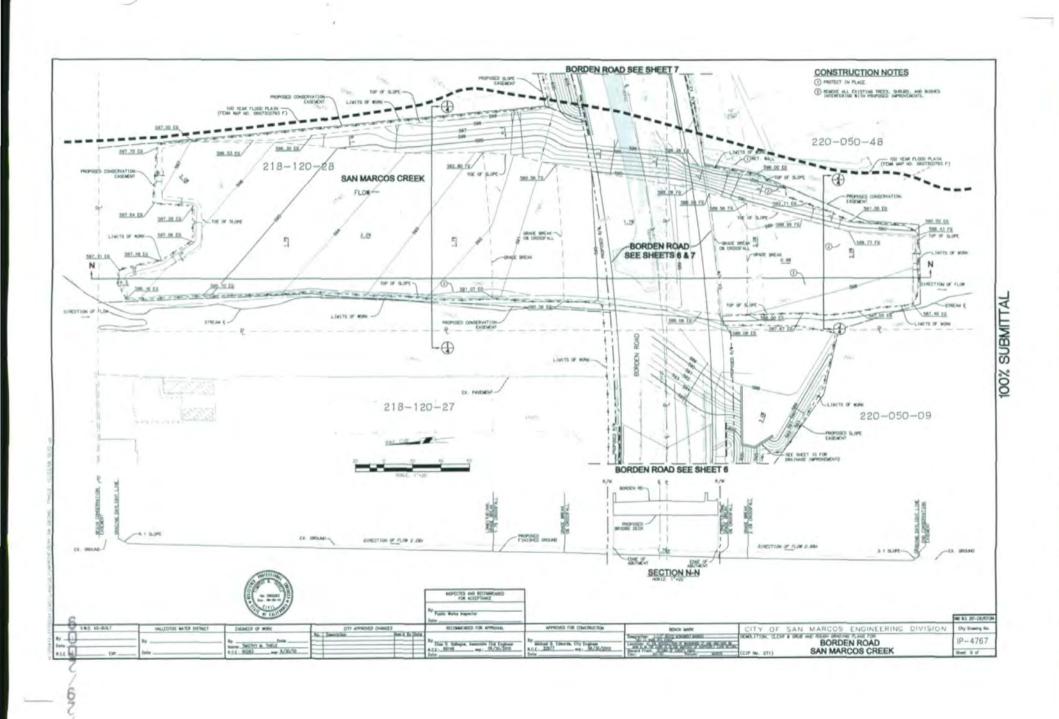


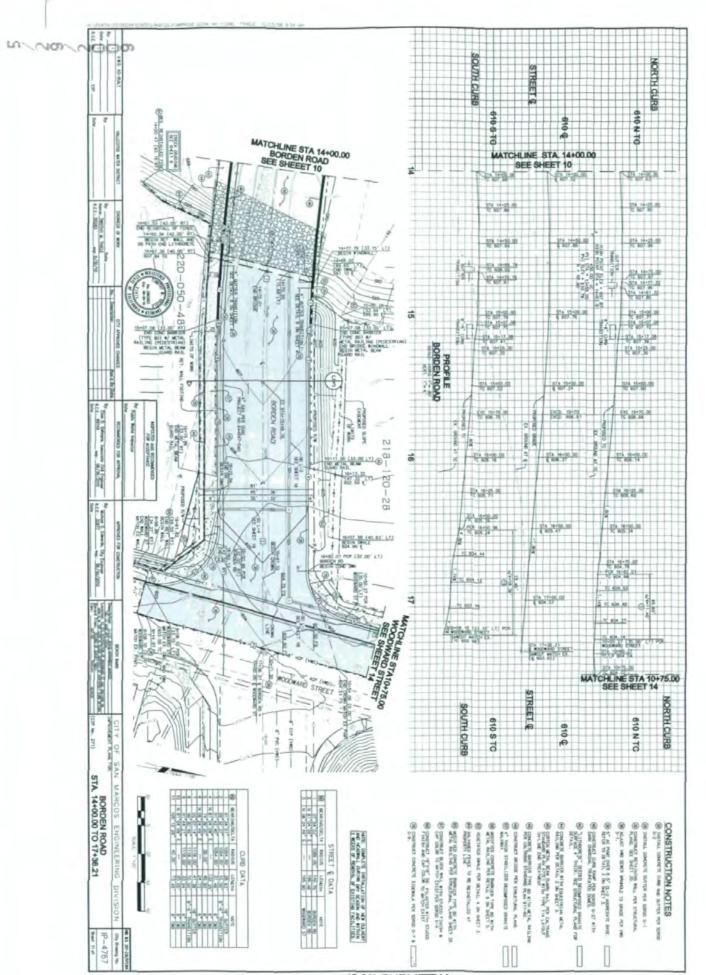


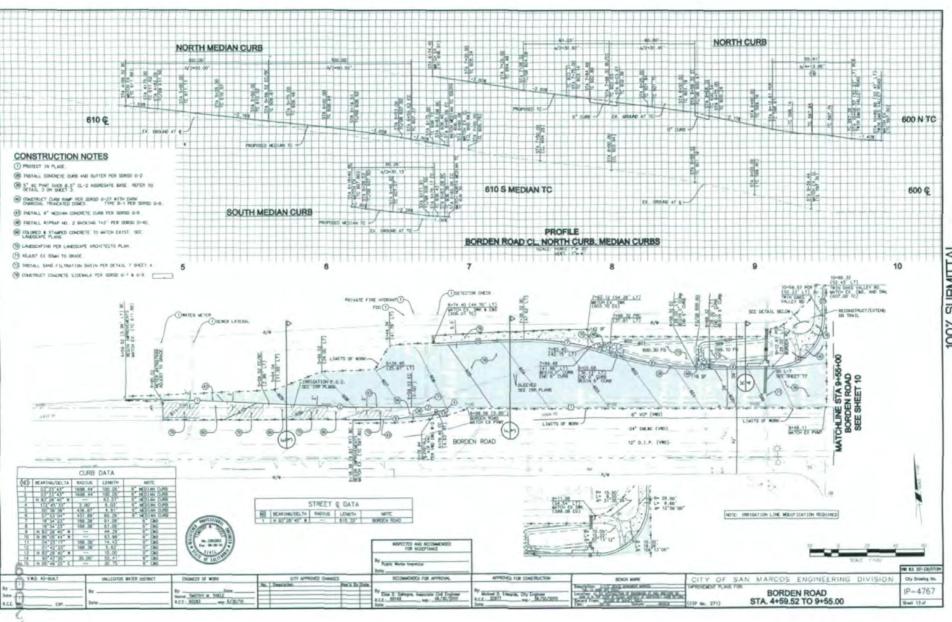


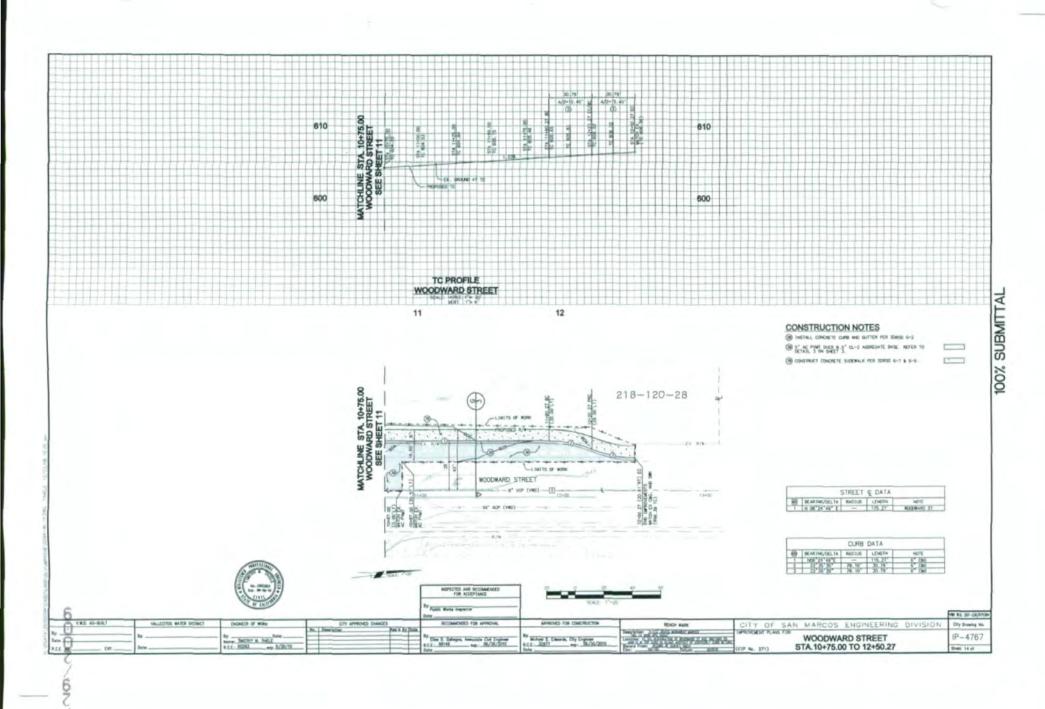


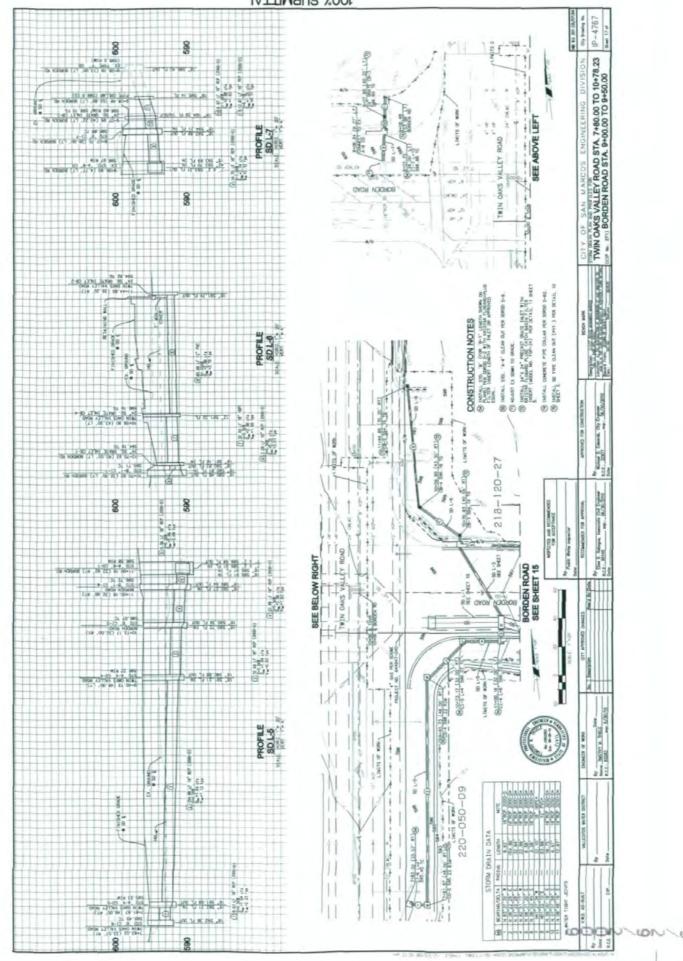












EROSION CONTROL NOTES

- of controvers their and Tabringer are professor at 1st 1st5 cashs for helper Stots.

 L. WITTSHOW METRICS SHOUL BY TYPESSOR IS COMPANIED AS THE COMPANIES OF TABLISHED BY THE CONTROL OF THE CONTROL OF THE CONTROL CON
 - DREICH GARRIN, BYSGES SWINN IN ALASE ABOVE DE SWILGET 9 SOMW HARR PRELITION PROVINCION ALAS (ME SMIL) AS ABOVED BALLES CHECKET, APPENDED.
- THE CONTRACTOR SHALL RESIDENCE ALL UNIONS CONTEST TO WORSTON ONDER, INCLUDING SILLY AND STATES RECOVER. ATTOLICES STUDY WISHOUSE ASSESSMENT.

 - THE CONTINUES WILL BE REPORTED AND WILL AND WILLIAM PROTECTION TO PREVENT PARILE INCOME. IN CHRISCOS DALL HOTAL ABUTOAL DESIN CARRE, ACADES AS "AMENDE" DE 16 JACAN, COS DICHESTOS DE AFRICADO CRICINOSES NOS AREAS.
- ALL CHILDS CHIRD, KICHERSON SCHOOL BY NO BOLL IN WHICH THEN WAS FULL FULLATION FOR POLICY OF PARTIES FOR PARTIES F
 - LI SHOED WEND WEND THE PROJECT RESIDENCE AND OBSES ARE THOSE THE FACE OF SLOPE AT THE EMPLASTRA (SAD RESIDENCE).
- as assessed, Pertitoring comments and relicition were also at the first of comments are required.
 as firstered in the residea, The register COTION was after two designed comments as in the residence of the residence of
 - ALL SHALL HALL THAT IS BRILD 10TH MINNES WITHOUT OF IS TRAINED IN THE
 - SLATS SHAL IE STABLIZE WITH ARTH HOUSE SHEEK IN THE THE THE MATTER.
- ALL LONG SHI, AND CORTS SHALL BY READED FINE TO STREET MALE AND STREETS SPECIALL AND PRINCIPAL. Shade in ORDS SHILL ALREST IN THE CARRESTOR FOR INCIDENCY KINN GACHE INJURIES.
- A CE-FORM MONEY WITH WINNESS SHOULD BE ANNOUNCED ALONG THE UP OF SLOPE OF THIS FILLS ON WHICH ANNOUNCED IN WITHOUT SHOWS THE TOP OF BLATCH.
- ALL BUILDER FIELD DANG AS TALTO THREED TO SHIEDER AND MICHIGATE ACHORD AND ATTENDED HER DAY OF ALL DEFINED FIELD WASHINGTON THE DAY SHIELD DAY AND ATTENDED HER DAY SHIELD DAY SHIEL SATURD REPORT BALL OF BAR HELD AT THE GO OF LOSS BAR ON BALLS FROM ANY APPEARING APPEARING APPEARING
- PROVIDE ALCIENT DETECTION IN ALL STREET, THE SECRETARY OF ALCIENTATION OF ALCI

A TO A SECURITY OF THE SECURIT

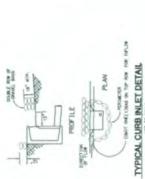
- 100 New 33 020-184-3000s.
 200 Ne 34 190 NE 34 170 N.
 34 170 NE 35 170 N.
 35 170 N.
 35 170 N.
 35 170 N.
 36 170 N.
 36 170 N.
 36 170 N.
 36 170 N.
 37 170 N.
 37
- A BAND DWL KE MOSTED IN 1317 MICHORIT DE 2015 OF THE NATUR IN ANY OLDS DOCKEN THE PIET
- N. D'TCTIN A-ARTINE SAL, M. HORLIG, ALL' KINNEND, ME SAL L'ITCTINL DAN M. RELINDE METLINE DES L'INCTINUTATION DE METLINE DESCRIPTION DE L'INCTINUTATION DE L'INCTI
- poed, jaste sed eXTEXEN WHITHALD DOLL ME ARRIVANT OF SECTIONALD AT CONSCIURT USDITION TO ACCUMENT ANY ARRIVANT OF TAXABLE AND ALSO AND ANY ARRIVANT OF TAXABLE AND ALSO AND ANY ARRIVANT OF TAXABLE AN
 - S. THE COMMENTS WILL CONDINCT WE LAWLER COSSION CONTRIL ACTIONCY IN ACCORDANCE WITH THE PRINCET'S
- A FARMAR, RECULT DELINE TOWNS ARE SECURED FOR ACCOUNT MACHINETY FILLED BY GLOSTING A DESIGNATION OF THE ACCOUNT OF THE ACCOUNT
 - S auceste Wilhelderfall and Delicip stamms, accused, Delaine mand systam (2019), tamme and after sinking for the bed calculated if the several



	DIVIS	
	US ENGINEERING	RDEN ROAD
	SAN MARC	C NOWS TON BO
	CITY OF	CEP No. 171)
	State state	
	APPENDED FOR CONSTRUCTION	Fr Michael E. Elwork, Oly Dupons 8.c.s., 2017 esp., Bir (8/2005) 3444.
My Public Works Imperior Shife	RECENSAGES FOR APPROVAL	Py Dav S. Dilesper, Associate Ool Teabuse B.C.E., Miled., esp., 28,73(2) Date.
1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	OTF APPRINGS CHANCES	As Jestine Agil It little
	DISACTS OF WORL	None Section a Media sec. 1933 - eq. 5/30/10
	MALED SA WATER DECRET	Sp.
	VMD 45-9(A)	De.

REPUTED AND RECOMMENDED FOR ACED PARES

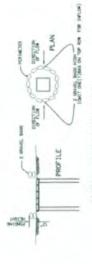
Oty Steeling No. 1P-4767



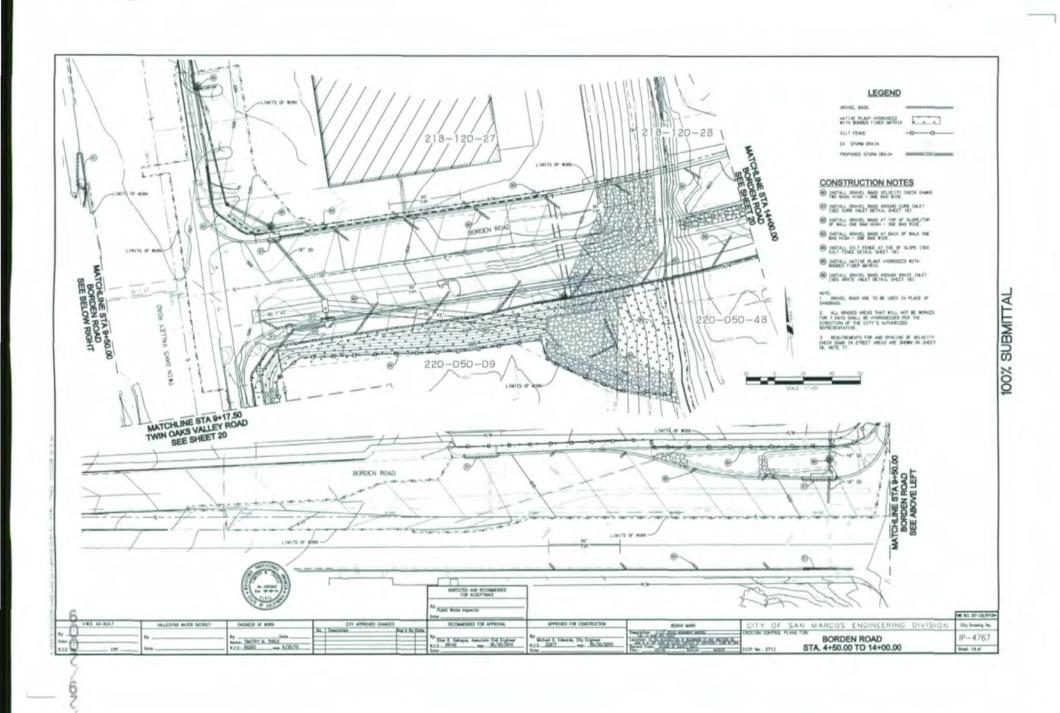


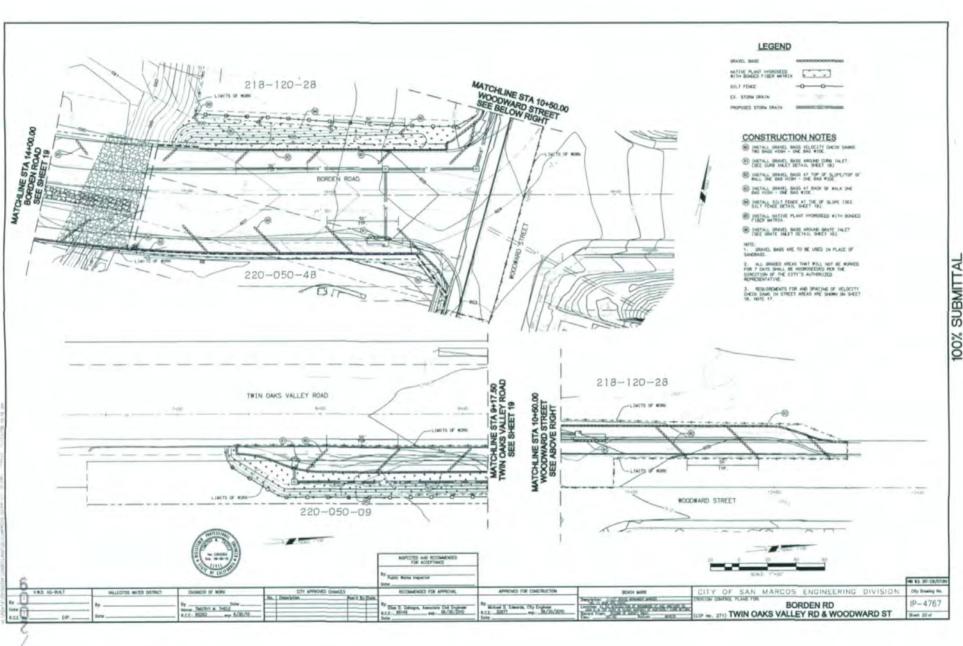
COTEA STROUTH FILTER PARKS

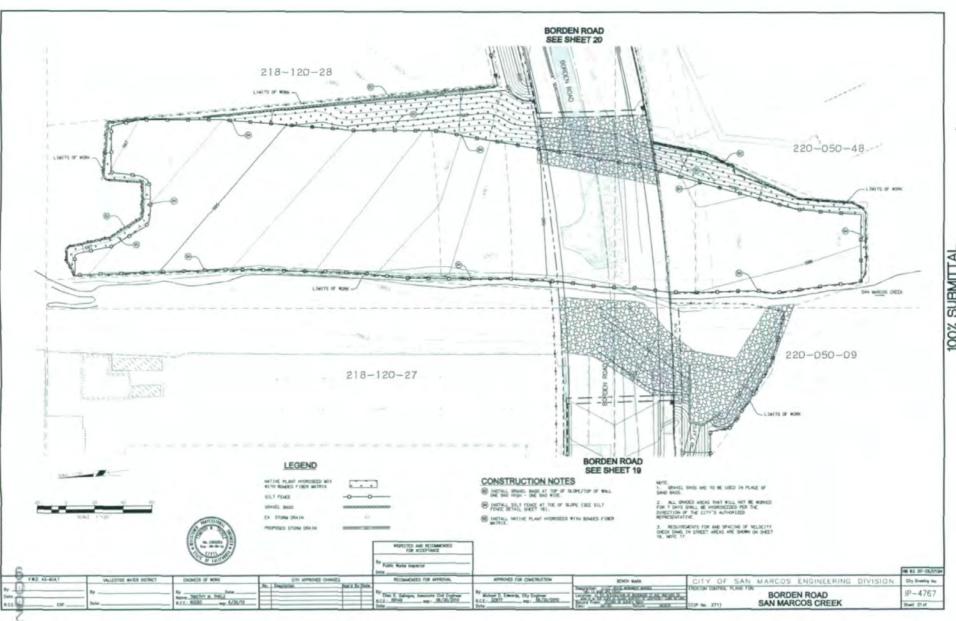
TYPICAL EROSION CONTROL FENCE DETAIL

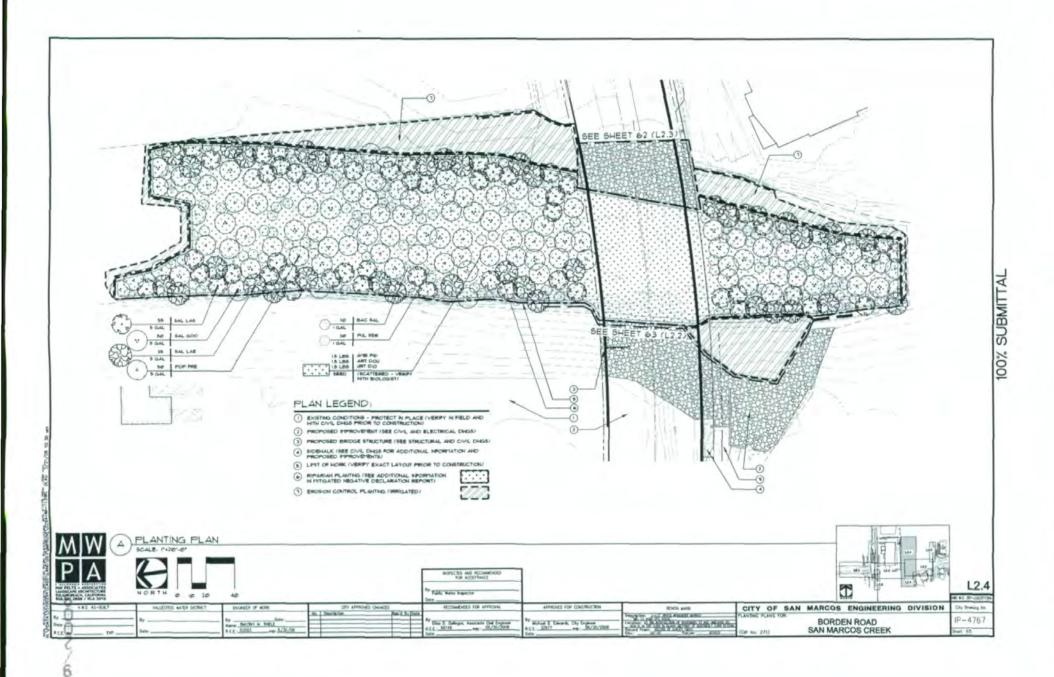


TYPICAL GRATE INLET DETAIL

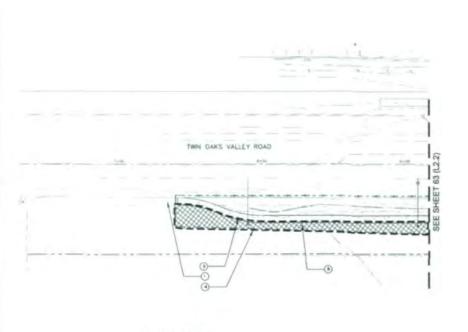


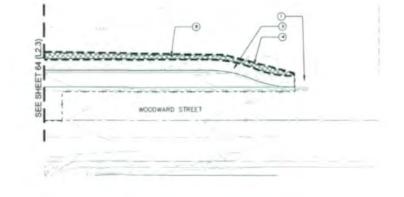












PLAN LEGEND:

- 1) EXISTING CONDITIONS PROTECT IN PLACE IVERITY IN FIELD AND HITH CIVIL DIAGS PRICE TO CONSTRUCTION!
- (2) PROPOSED PPROVERENT (SEE CIVIL AND ELECTRICAL DIGS.)
- 3 SUBHALK (SEE CIVE DINGS FOR ADDITIONAL SPORTATION AND PROPOSED PEROVERSENTS)
- LINT OF HORK /VERFY EXACT LAYOUT PRIOR TO CONSTRUCTION
- (S) BARK PLLON (3" DEEP) IN ALL PLANTING AREAS



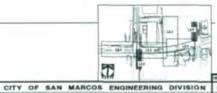
PLAN LEGEND:

- EXISTING CONDITIONS PROTECT IN PLACE (VERFY IN FIELD AND HITH CIVIL DINGS PRIOR TO CONSTRUCTION)
- PROPOSED PEROVERSHIT (SEE CIVIL STRUCTURAL OR BLECTRICAL DHGS)
- SUBHALK ISSE CIVIL DIAGS FOR ADDITIONAL INFORMATION AND PROPOSED PERSONSHIPS.
- (4) LIST OF HORK IVERFY EXACT LAYOUT PRIOR TO CONSTRUCTION!

BARK MILCH / 3" DEEP! IN ALL PLANTING AREAS EXCEPT 2: SLOPES AND REPARIAN CHANGE.



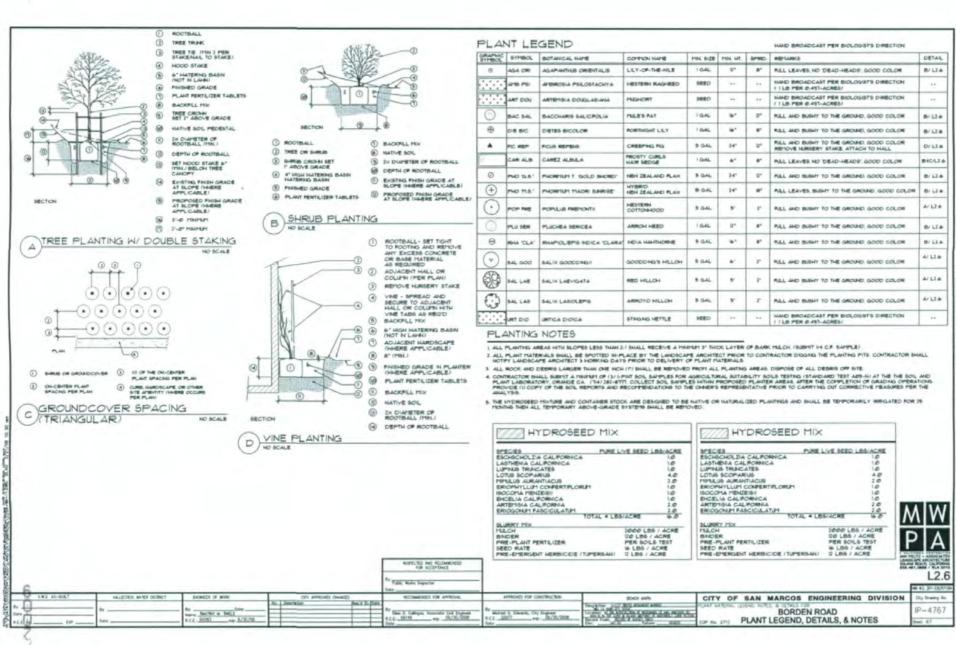


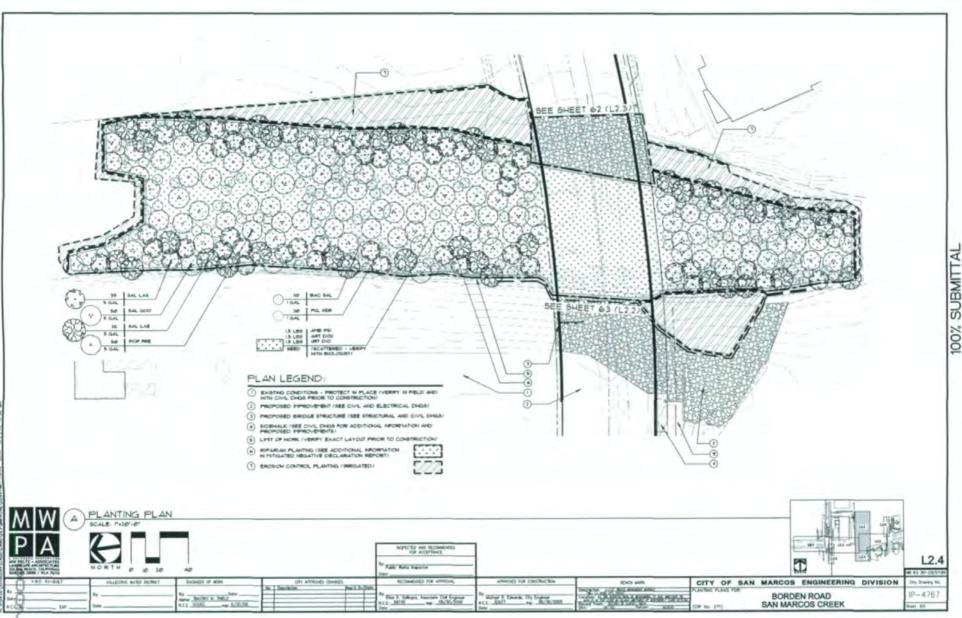


L2.5

IP-4767

TWIN OAKS VALLEY ROAD AND WOODWARD STREET

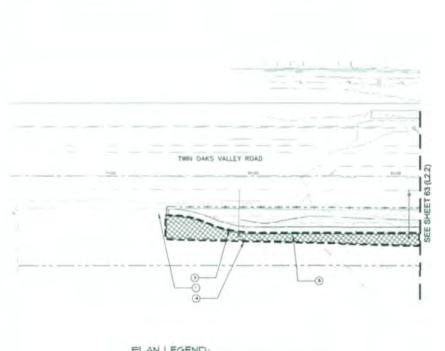




一大下 村で 一般では一般ないないのできる

A COLON





WOODWARD STREET

PLAN LEGEND

- BHISTHIS CONDITIONS PROTECT IN PLACE (VERIFY IN FIELD AND HITH CIVIL DHOS PRIOR TO CONSTRUCTION)
- PROPOSED IMPROVEMENT (SEE CIVIL, AND ELECTRICAL DHOS)
 RIDBHAUX (SEE CIVIL, DHOS FOR ADDITIONAL, IMPORTATION AND PROPOSED PHYROVERIENTS)
- LIFIT OF HORK (VERIFY EXACT LAYOUT PRIOR TO CONSTRUCTION)
 BARK PALCH (3" DEE") IN ALL PLANTING AREAS
- B BARK PALCH (3" DEEP) IN ALL PLANTING AREAS EXCEPT 2:1 SLOPES AND RIPARKAN CHANNEL



PLAN LEGEND:

- EXISTING CONDITIONS PROTECT IN PLACE (VERIFY IN FIELD AND HITH CIVIL DIASS PRIOR TO CONSTRUCTION)
- (3) PROPOSED PEROVERSHT (SEE CIVIL, STRUCTURAL OR ELECTRICAL DISGS!
- 3 SIDEHALK (SEE CIVIL DIAGS FOR ADDITIONAL RECREATION AND PROPOSED PERSONSHIPS)
- (4) LIHIT OF HORK IVERFY EXACT LAYOUT PRIOR TO CONSTRUCTION
- BARK PLECH 13" DREFT IN ALL PLANTING AREAS EXCEPT 3:1 SLOPES AND REPARKAN CHANNEL



