

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

2375 Northside Drive, Suite 100, San Diego, CA 92108
Phone (619) 516-1990 • Fax (619) 516-1994
<http://www.waterboards.ca.gov/sandiego/>

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

PROJECT: Jeff Valley Spillway Repair Project
Certification Number R9-2014-0057
WDID: 9000002720

Reg. Meas. ID: 396195 Place ID: 806055 Party ID: 546428 Person ID: 535269
--

APPLICANT: San Diego Gas & Electric Company
8315 Century Park Court, CP21E
San Diego, CA 92123

ACTION:

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

PROJECT DESCRIPTION

An application dated April 7, 2014 was submitted by San Diego Gas & Electric Company (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (33 U.S.C. § 1341) for the proposed Jeff Valley Spillway Repair Project (Project). The Applicant has also applied for a Clean Water Act section 404 permit from the United States Army Corps of Engineers for the Project (USACE File No. SPL-2014-00296-SAS).

The Project is located on Palomar Mountain, San Diego County, California northeast of the intersection of County Highway 57 and Conifer Road. The Project center reading is located at latitude N 33° 18' 12" and longitude W -116° 50' 13". The Applicant has paid all required fees for this Certification in the amount of \$1,832.00. On May 13, 2014, the San Diego Water Board provided public notice of the Project application pursuant to California Code of Regulations, title 23, section 3858 by posting information describing the Project on the San Diego Water Board's web site and providing a period of twenty-one days for public review and comment. No comments were received.

The Applicant proposes to conduct minor repairs to two earthen dam concrete spillways located on a property intended for mitigation for an unrelated project. Erosion has partially undermined the outlets of both spillways; and a segment of the upper spillway is damaged as a result of a large fallen tree. Minor erosion has also been identified beneath two locations of the lower concrete spillway. Work would include the repair and replacement of damaged sections of each spillway, the installation of concrete headwalls and the placement of rip-rap at the base

of each spillway. The spillways are located on Cedar Creek, a tributary to the Middle San Luis Rey River.

The proposed spillway repairs would result in permanent modifications to 0.016 acre of waters of the United States and State comprised of 501 square feet (sf) of wetland and 182 sf (48.5 linear feet) of non-wetland drainage.

Permanent impacts to waters of the United States and State will be mitigated through the purchase of 0.02 acres of re-establishment mitigation credits from the San Luis Rey Mitigation Bank.

TABLE OF CONTENTS

I. STANDARD CONDITIONS..... 4

II. GENERAL CONDITIONS 4

III. STORM WATER BEST MANAGEMENT PRACTICES 7

IV. PROJECT IMPACTS AND COMPENSATORY MITIGATION 7

V. MONITORING AND REPORTING REQUIREMENTS 8

VI. NOTIFICATION REQUIREMENTS 9

VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE 11

VIII. SAN DIEGO WATER BOARD CONTACT PERSON 11

IX. WATER QUALITY CERTIFICATION 11

Attachments:

- 1. Definitions**
- 2. Project Figures and Plans**
- 3. Mitigation Bank Cost Proposal**

I. STANDARD CONDITIONS

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

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

II. GENERAL CONDITIONS

- A. **Term of Certification.** Water Quality Certification No. R9-2014-0057 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 U.S.C. §1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/go_wdr401regulated_projects.pdf

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

- I. **Enforcement Notification.** In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
- J. **Certification Actions.** This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:
1. Violation of any term or condition of this Certification;
 2. Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of the Cedar Creek or its tributaries;
 3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
 4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
 5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

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

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

III. STORM WATER BEST MANAGEMENT PRACTICES

- A. **Approvals to Commence Construction.** The Applicant shall not commence Project construction until all necessary federal, state, and local approvals are obtained.
- B. **General Construction Storm Water Permit.** Prior to start of Project construction, the Applicant must, as applicable, obtain coverage under, and comply with, the requirements of State Water Resources Control Board Water Quality Order No. 2009-0009-DWQ, the *General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activity*, (General Construction Storm Water Permit) and any reissuance. If Project construction activities do not require coverage under the General Construction Storm Water Permit, the Applicant must develop and implement a runoff management plan (or equivalent construction best management practice (BMP) plan) to prevent the discharge of sediment and other pollutants during construction activities.
- C. **Post-Construction BMP Design.** The Project must be designed to comply with the most current Standard Storm Water Mitigation and Hydromodification Plans for County of San Diego.

IV. PROJECT IMPACTS AND COMPENSATORY MITIGATION

- A. **Project Impact Avoidance and Minimization.** The project must avoid and minimize adverse impacts to waters of the United States and/or State to the maximum extent practicable.
- B. **Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to Cedar Creek and its unnamed tributaries within the San Luis Rey Hydrologic Unit must not exceed the type and magnitude of impacts described in the table below. At a minimum, compensatory mitigation required to offset unavoidable temporary and permanent Project impacts to waters of the United States and/or State must be achieved as described in the table below:

	Impacts (acres)	Impacts (linear ft.)	Mitigation for Impacts (acres)	Mitigation Ratio (area mitigated : area impacted)	Mitigation for Impacts (linear ft.)	Mitigation Ratio (linear feet mitigated: linear feet impacted)
Wetland (Permanent impacts)	0.02	48.5	0.02 ¹ Re Establishment	1:1	N/A ²	N/A ²

1. Permanent impacts will be mitigated through the purchase of re-establishment mitigation credits from the San Luis Rey Mitigation Bank.
2. The amount of mitigation credits purchased is not reported in terms of linear feet of mitigation.

V. MONITORING AND REPORTING REQUIREMENTS

A. **Final Project Completion Report.** The Applicant must submit a Final Project Completion Report to the San Diego Water Board **within 30 days of completion of the Project.** The final report must include the following information:

1. Date of construction initiation;
2. Date of construction completion;
3. As-built drawings of the Project, no bigger than 11"X17"; and
4. Photo documentation of implemented post-construction BMPs and all areas of permanent and temporary impacts, prior to and after project construction. Photo documentation must be conducted in accordance with guidelines posted at http://www.waterboards.ca.gov/sandiego/water_issues/programs/401_certification/docs/StreamPhotoDocSOP.pdf. In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced.

B. **Reporting Authority.** The submittal of information required under this Certification, or in response to a suspected violation of any condition of this Certification, is required pursuant to Water Code section 13267 and 13383. Civil liability may be administratively imposed by the San Diego Water Board for failure to submit information pursuant to Water Code sections 13268 or 13385.

C. **Electronic and Paper Media Documents.** The Applicant must submit all reports and information required under this Certification in electronic format via e-mail to SanDiego@waterboards.ca.gov. Documents over 50 megabytes will not be accepted via e-mail and must be placed on a disc and delivered to:

California Regional Water Quality Control Board
San Diego Region
Attn: 401 Certification No. R9-2014-0057:PIN 806055
2375 Northside Drive, Suite 100
San Diego, California 92108

Each electronic document must be submitted as a single file, in Portable Document Format (PDF) format, and converted to text searchable format using Optical Character Recognition (OCR). All electronic documents must include scanned copies of all signature pages; electronic signatures will not be accepted. Electronic documents submitted to the San Diego Water Board must include the following identification numbers in the header or subject line: Certification No. R9-2014-0057:PIN 806055.

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

1. For a corporation, by a responsible corporate officer of at least the level of vice president.

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

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

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

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

VI. NOTIFICATION REQUIREMENTS

- A. **Twenty Four Hour Non-Compliance Reporting.** The Applicant shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the San Diego Water Board within **24 hours** from the time the Applicant becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Applicant becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The San Diego Water Board, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

- B. **Anticipated Noncompliance.** The Applicant shall give advance notice to the San Diego Water Board of any planned changes in the Project or the Compensatory Mitigation project which may result in noncompliance with Certification conditions or requirements.
- C. **Transfers.** This Certification is not transferable in its entirety or in part to any person or organization except after notice to the San Diego Water Board in accordance with the following terms:
1. **Transfer of Property Ownership:** The Applicant must notify the San Diego Water Board of any change in ownership of the Project area. Notification of change in ownership must include, but not be limited to, a statement that the Applicant has provided the purchaser with a copy of the Section 401 Water Quality Certification and that the purchaser understands and accepts the certification requirements and the obligation to implement them or be subject to liability for failure to do so; the seller and purchaser must sign and date the notification and provide such notification to the San Diego Water Board **within 10 days of the transfer of ownership.**
 2. **Transfer of Mitigation Responsibility:** Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in this Certification must include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the San Diego Water Board **within 10 days of the transfer date.**
 3. **Transfer of Post-Construction BMP Maintenance Responsibility:** The Applicant assumes responsibility for the inspection and maintenance of all post-construction structural BMPs until such responsibility is legally transferred to another entity. At the time maintenance responsibility for post-construction BMPs is legally transferred the Applicant must submit to the San Diego Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer specifications. The Applicant must provide such notification to the San Diego Water Board within **10 days** of the transfer of BMP maintenance responsibility.

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

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

VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

The San Diego Water Board is the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000, et seq.) and filed a Notice of Exemption dated October 23, 2014 for the Project.

VIII. SAN DIEGO WATER BOARD CONTACT PERSON

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

IX. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Jeff Valley Spillway Repair Project** (Certification No. R9-2014-0057) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "*Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General WDRs)*," which requires compliance with all conditions of this Water Quality Certification. Please note that enrollment under Order No. 2003-017-DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the San Diego Water Board may issue individual waste discharge requirements at that time.

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited to, and all proposed mitigation being completed in strict compliance with, the applicants' Project description and/or the description in this Certification, and (b) compliance with all applicable requirements of the Basin Plan.

I, David W. Gibson, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Certification No. R9-2014-0057 issued on October 21, 2014.



DAVID W. GIBSON
Executive Officer
San Diego Water Board

21 Oct 2014
Date

ATTACHMENT 1

DEFINITIONS

Activity - when used in reference to a permit means any action, undertaking, or project including, but not limited to, construction, operation, maintenance, repair, modification, and restoration which may result in any discharge to waters of the state.

Buffer - means an upland, wetland, and/or riparian area that protects and/or enhances aquatic resource functions associated with wetlands, rivers, streams, lakes, marine, and estuarine systems from disturbances associated with adjacent land uses.

California Rapid Assessment Method (CRAM) - is a wetland assessment method intended to provide a rapid, scientifically-defensible and repeatable assessment methodology to monitor status and trends in the conditions of wetlands for applications throughout the state. It can also be used to assess the performance of compensatory mitigation projects and restoration projects. CRAM provides an assessment of overall ecological condition in terms of four attributes: landscape context and buffer, hydrology, physical structure and biotic structure. CRAM also includes an assessment of key stressors that may be affecting wetland condition and a "field to PC" data management tool (eCRAM) to ensure consistency and quality of data produced with the method.

Compensatory Mitigation Project - means compensatory mitigation implemented by the Applicant as a requirement of this Certification (i.e., applicant -responsible mitigation), or by a mitigation bank or an in-lieu fee program.

Discharge of dredged material – means any addition of dredged material into, including redeposit of dredged material other than incidental fallback within, the waters of the United States and/or State.

Discharge of fill material – means the addition of fill material into waters of the United States and/or State.

Dredged material – means material that is excavated or dredged from waters of the United States and/or State.

Ecological Success Performance Standards – means observable or measurable physical (including hydrological), chemical, and/or biological attributes that are used to determine if a compensatory mitigation project meets its objectives.

Enhancement – means the manipulation of the physical, chemical, or biological characteristics of an aquatic resource to improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Establishment – means the manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist. Creation results in a gain in aquatic resource area.

Fill material – means any material used for the primary purpose of replacing an aquatic area with dry land or of changing the bottom elevation of a water body.

Isolated wetland – means a wetland with no surface water connection to other aquatic resources.

Mitigation Bank – means a site, or suite of sites, where resources (e.g., wetlands, streams, riparian areas) are restored, established, enhanced, and/or preserved for the purpose of providing mitigation for impacts authorized by this Certification.

Preservation - means the removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Re-establishment - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/ historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

Rehabilitation - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/ historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

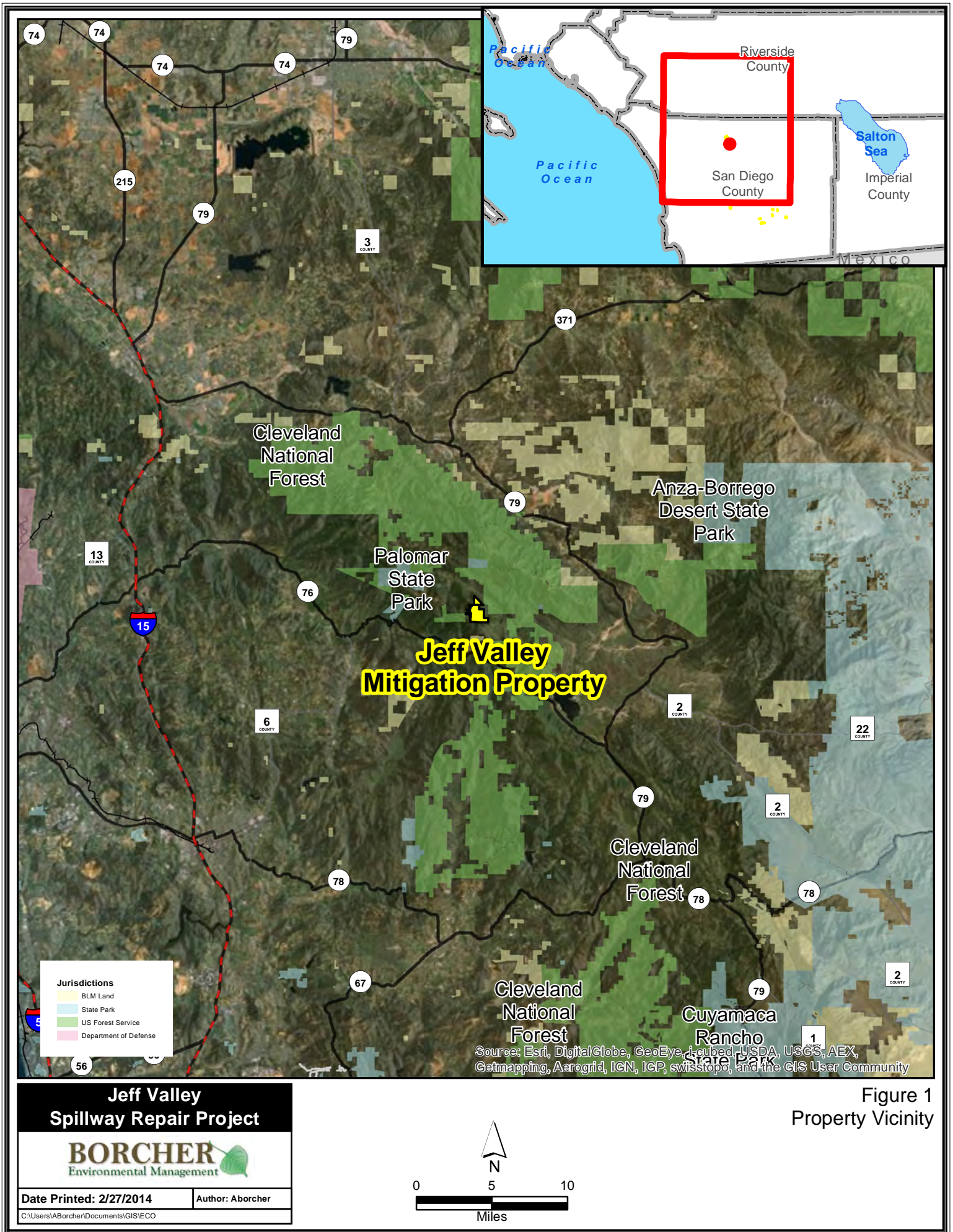
Start of Project Construction - For the purpose of this Certification, "start of Project construction" means to engage in a program of on-site construction, including site clearing, grading, dredging, landfilling, changing equipment, substituting equipment, or even moving the location of equipment specifically designed for a stationary source in preparation for the fabrication, erection or installation of the building components of the stationary source within waters of the United States and/or State.

Uplands - means non-wetland areas that lack any field-based indicators of wetlands or other aquatic conditions. Uplands are generally well-drained and occur above (i.e., up-slope) from nearby aquatic areas. Wetlands can, however, be entirely surrounded by uplands. For example, some natural seeps and constructed stock ponds lack aboveground hydrological connection to other aquatic areas. In the watershed context, uplands comprise the landscape matrix in which aquatic areas form. They are the primary sources of sediment, surface runoff, and associated chemicals that are deposited in aquatic areas or transported through them.

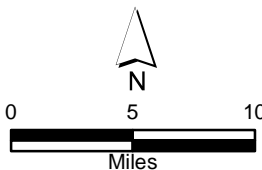
Water quality objectives and other appropriate requirements of state law – means the water quality objectives and beneficial uses as specified in the appropriate water quality control plan(s); the applicable provisions of sections 301, 302, 303, 306, and 307 of the Clean Water Act; and any other appropriate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

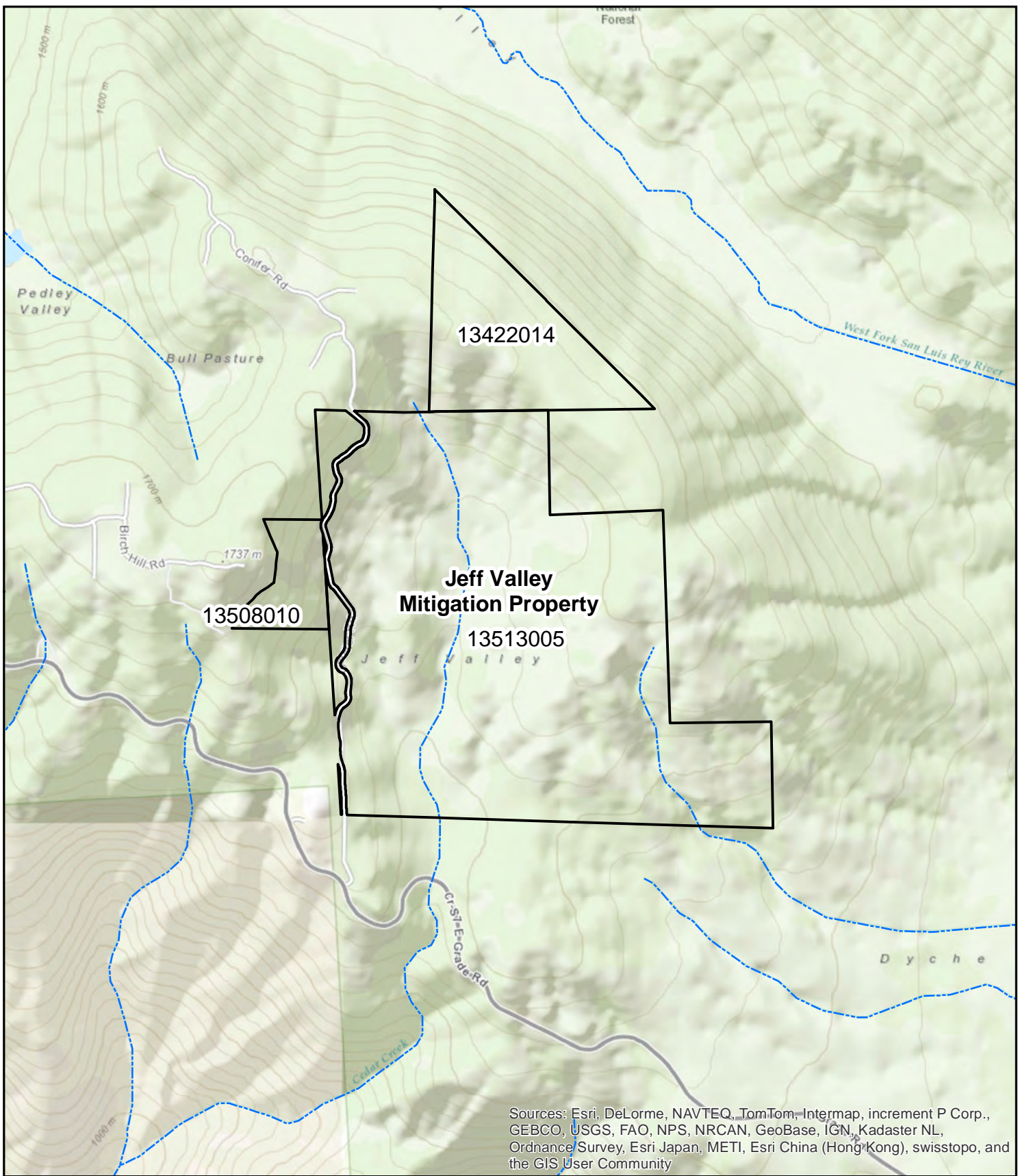
**ATTACHMENT 2
PROJECT FIGURES AND PLANS**

1. Borchers Environmental Management Figure 1, Vicinity Map
2. Borchers Environmental Management Figure 2, Property Location
3. Borchers Environmental Management Figure 3, Project Overview
4. Borchers Environmental Management Figure 4, Jurisdictional Resources Lower Spillway
5. Borchers Environmental Management Figure 5, Impact Area and Jurisdictional Resources Lower Spillway
6. Borchers Environmental Management Figure 6, Jurisdictional Resources Upper Spillway
7. Borchers Environmental Management Figure 7, Impact Area and Jurisdictional Resources Upper Spillway
8. Geosyntec Consultants, Construction Drawings for Jeff Valley Dam Repairs, San Diego County, California, November 2013



Jurisdictions	
	BLM Land
	State Park
	US Forest Service
	Department of Defense





Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

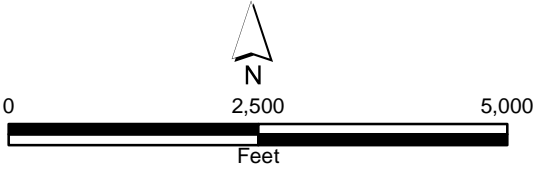
Figure 2
Property Location

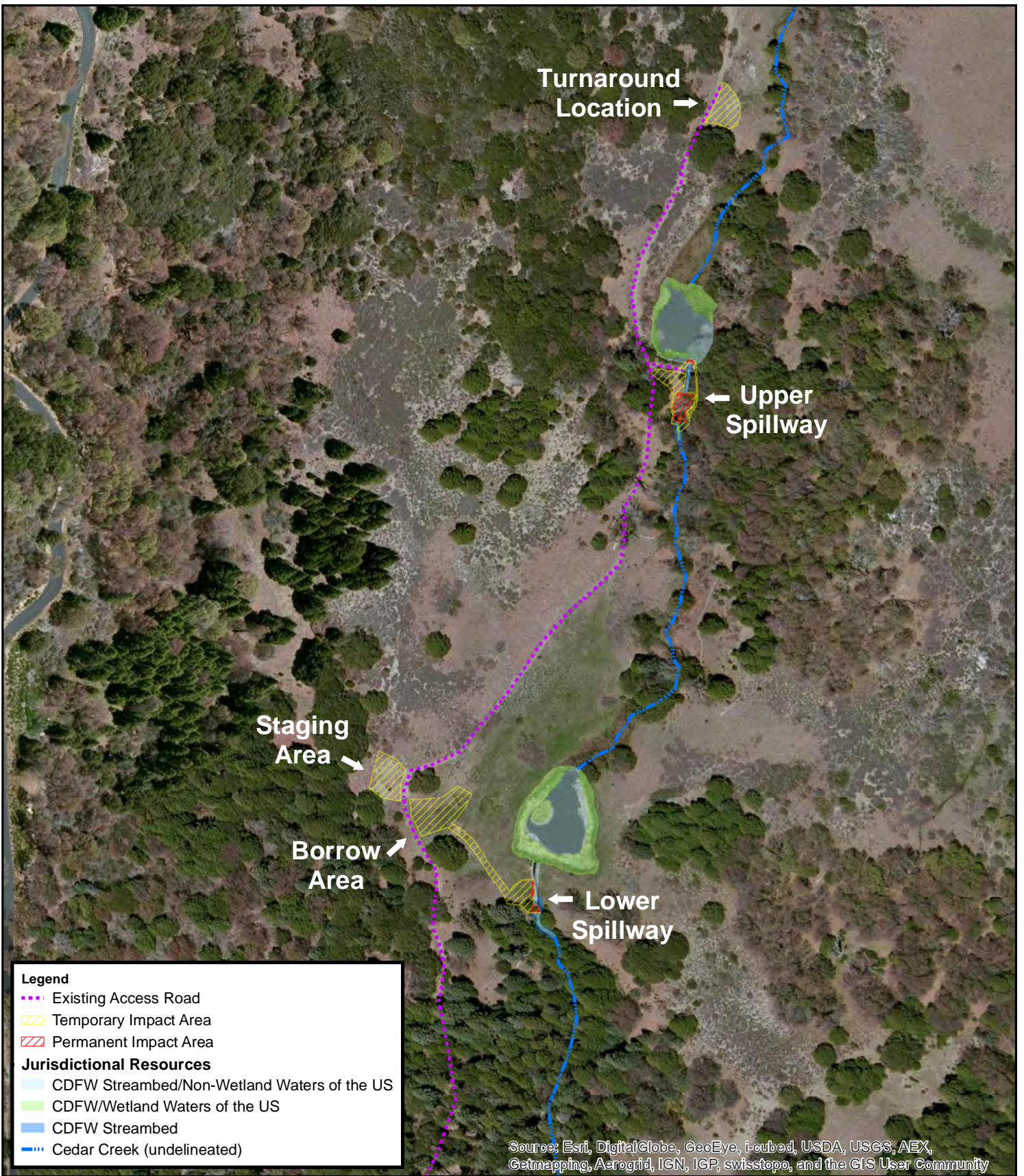
**Jeff Valley
Spillway Repair Project**

BORCHER
Environmental Management

Date Printed: 2/27/2014 Author: Aborcher

C:\Users\ABorcher\Documents\GIS\IECO





Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

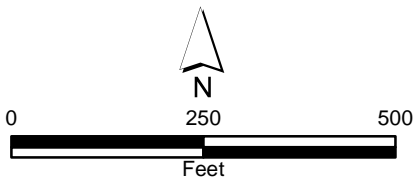
Figure 3
Project Overview

**Jeff Valley
Spillway Repair Project**

BORCHER
Environmental Management

Date Printed: 2/27/2014 Author: ABorcher

Name: Figure 3_Project Overview_JD.Mxd





Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Legend

- * Sample Points

Jurisdictional Resources

- CDFW Streambed/Non-Wetland Waters of the US
- CDFW/Wetland Waters of the US
- CDFW Streambed
- ⋯ Cedar Creek (undelineated)

**Jeff Valley
Spillway Repair Project**

BORCHER
Environmental Management

Date Printed: 2/27/2014	Author: ABorcher
-------------------------	------------------

Name: Figure 4 Lower JurisResources.Mxd

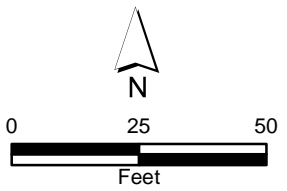
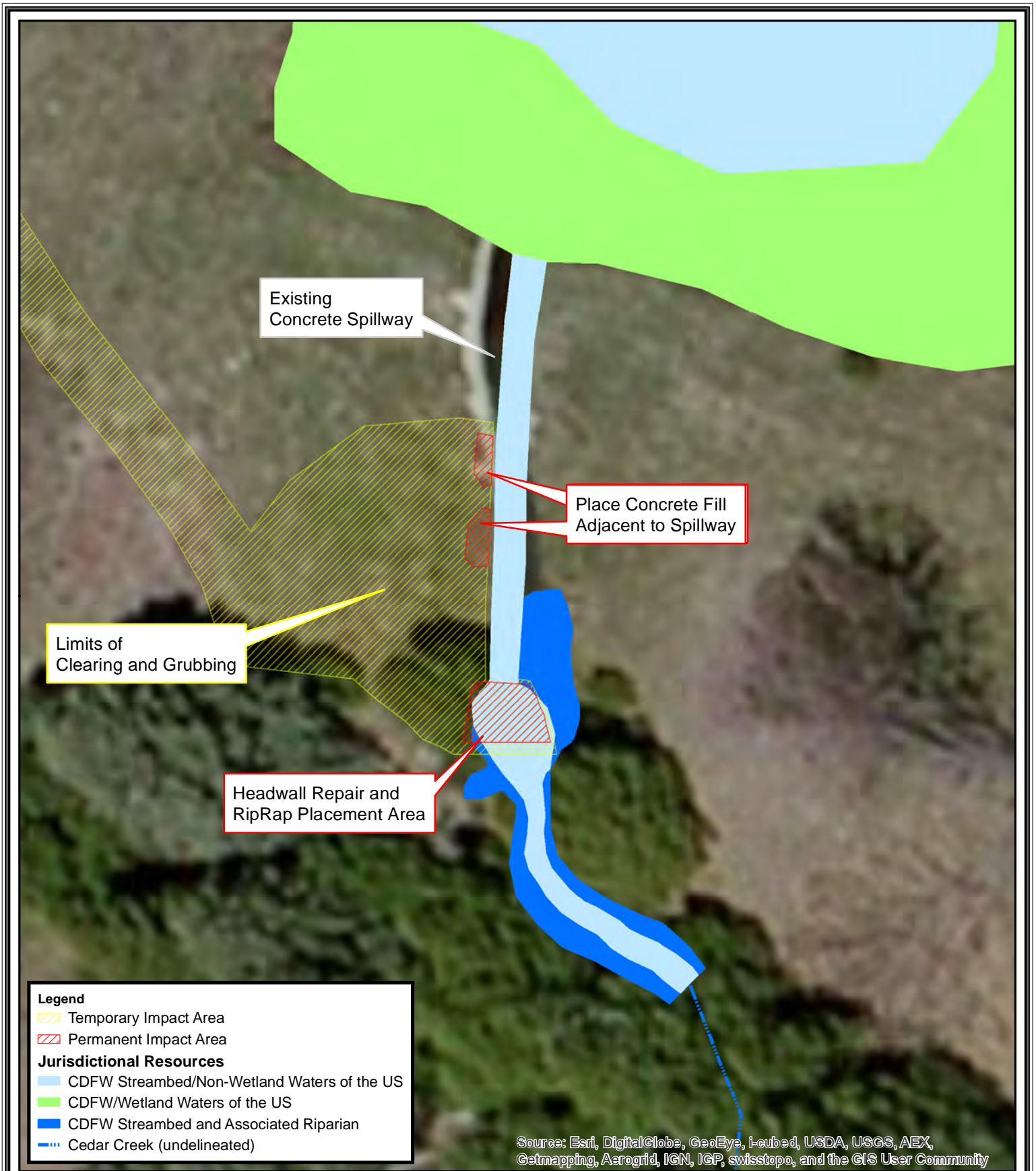


Figure 4
Jurisdictional Resources
Lower Spillway



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Jeff Valley
Spillway Repair Project**

BORCHER
Environmental Management

Date Printed: 2/27/2014 Author: ABorcher

Name: Figure 5 Lower Impacts and JurisResources.Mxd

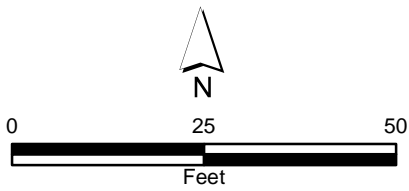


Figure 5
Impact Area and
Jurisdictional Resources
Lower Spillway



Existing Concrete Spillway

UW-1

UE-2

Legend

- Existing Access Road
- Sample Points

Jurisdictional Resources

- CDFW Streambed/Non-Wetland Waters of the US
- CDFW/Wetland Waters of the US
- CDFW Streambed
- Cedar Creek (undelineated)

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Jeff Valley Spillway Repair Project

BORCHER
Environmental Management

Date Printed: 2/27/2014 Author: ABorcher

Name: Figure 6 Upper JurisResources.Mxd

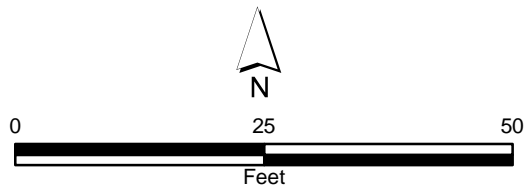
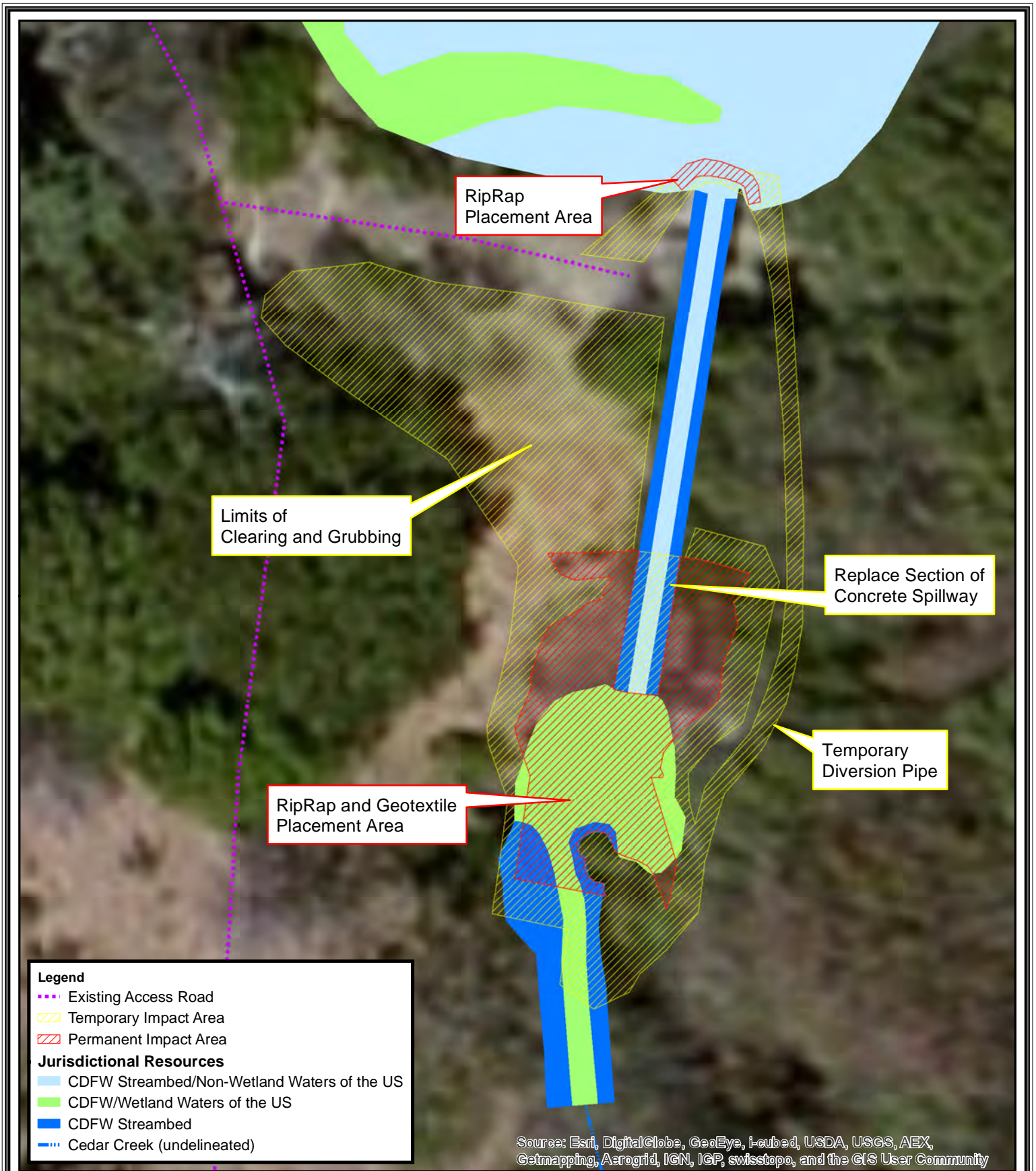


Figure 6
Jurisdictional Resources
Upper Spillway



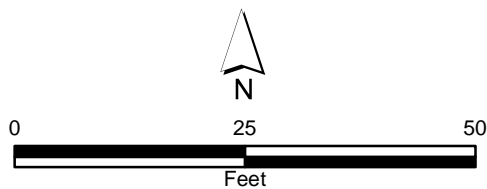
**Jeff Valley
Spillway Repair Project**



Date Printed: 2/27/2014

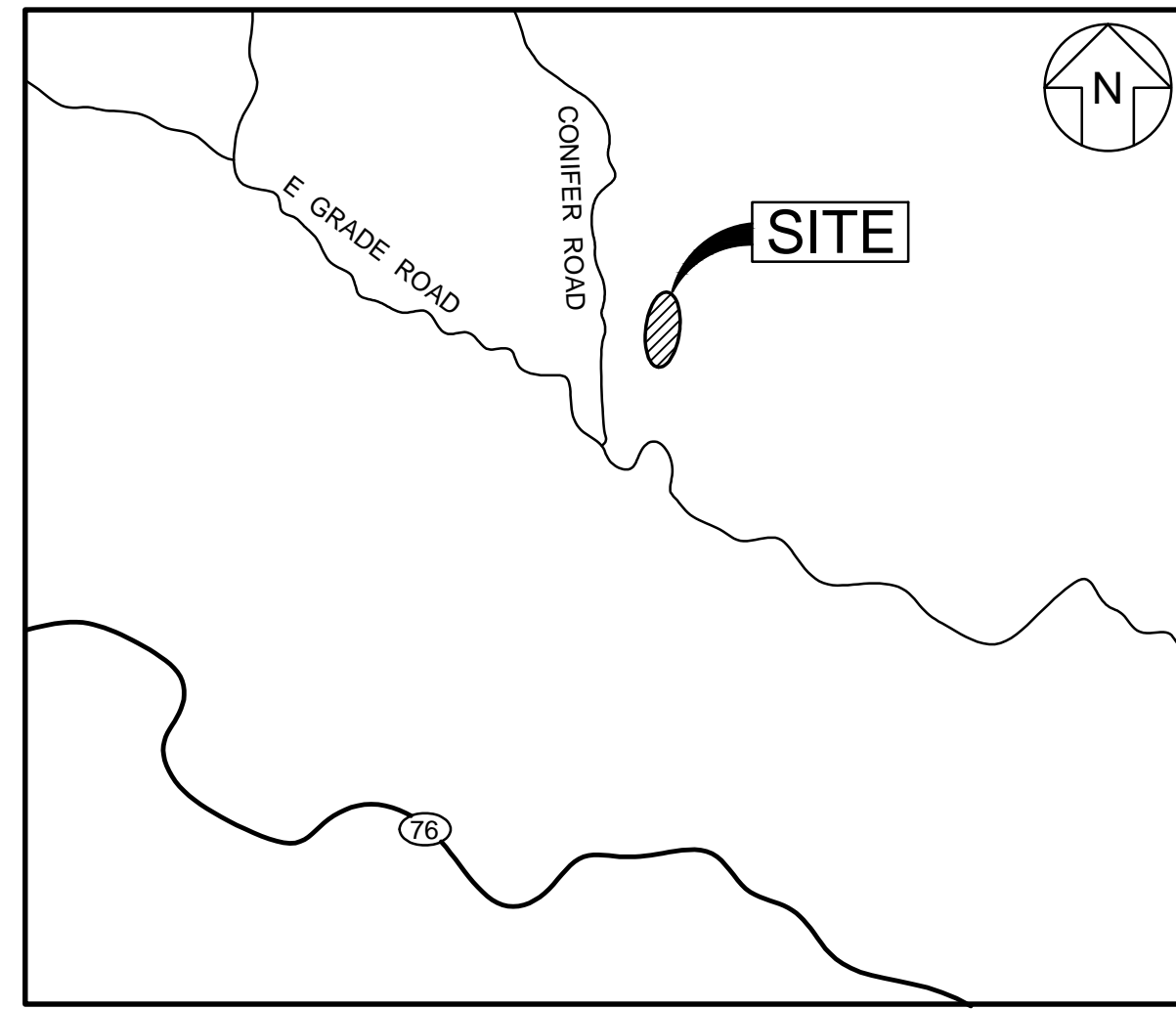
Author: ABorcher

Name: Figure 7 Upper Impacts JurisResources.Mxd

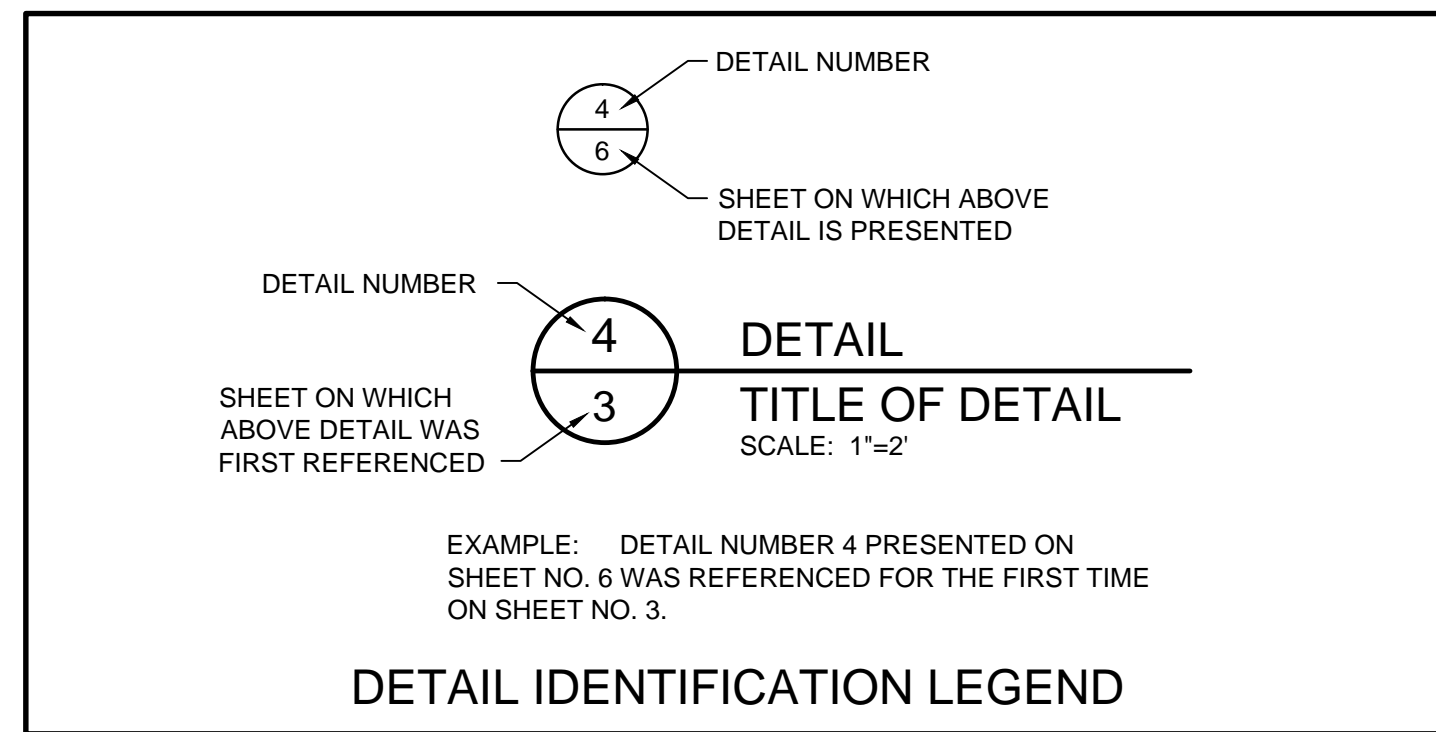


**Figure 7
Impact Area and
Jurisdictional Resources
Upper Spillway**

CONSTRUCTION DRAWINGS FOR JEFF VALLEY DAM REPAIRS SAN DIEGO COUNTY, CALIFORNIA NOVEMBER 2013



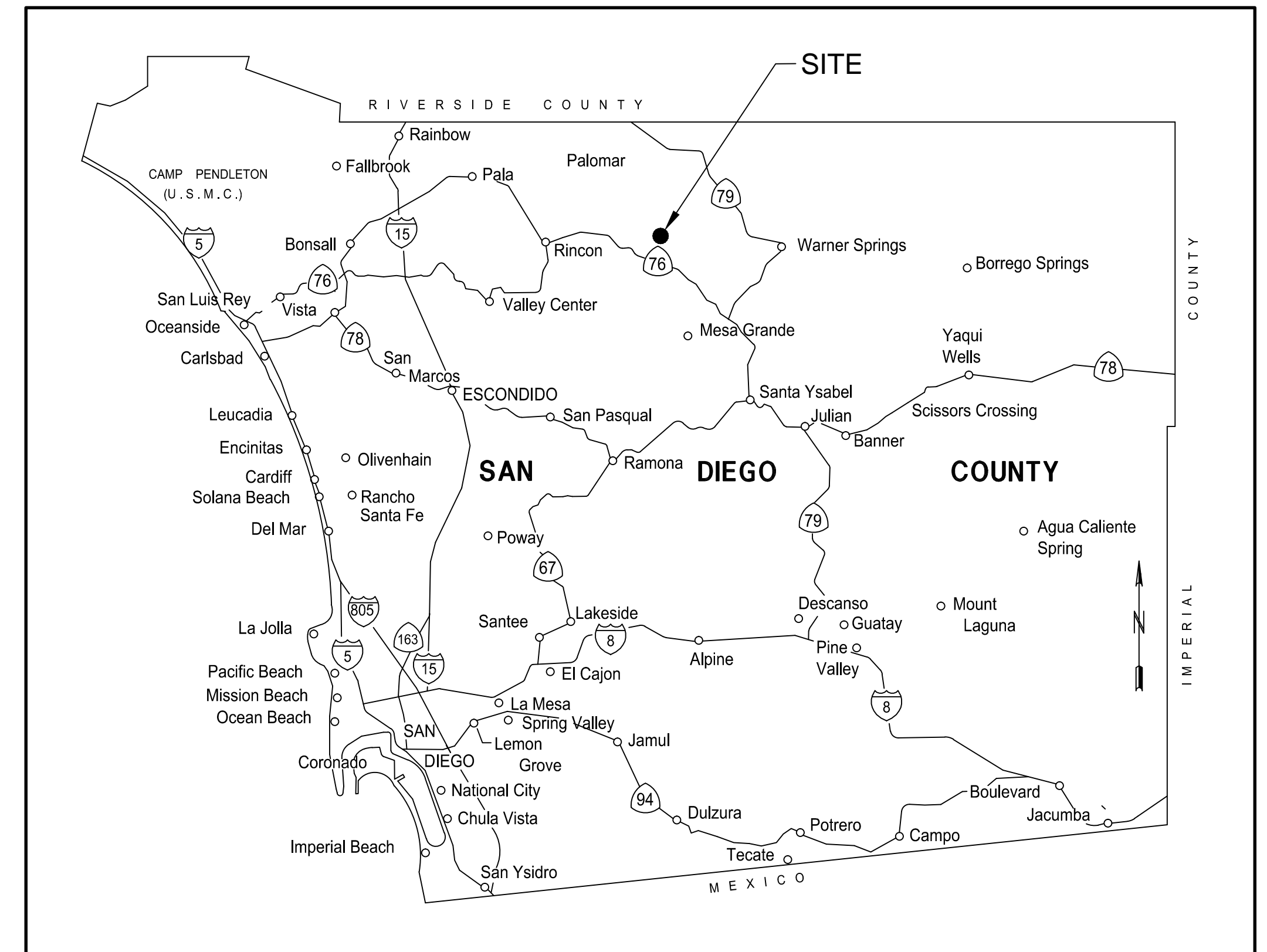
VICINITY MAP
NOT TO SCALE



DRAWING NO.	DRAWING TITLE
1	TITLE SHEET
2	NOTES AND SITE PLAN
3	EXISTING CONDITIONS - UPPER DAM
4	SITE PREPARATION - UPPER DAM
5	REPAIR PLAN - UPPER DAM
6	SITE RESTORATION - UPPER DAM
7	EXISTING CONDITIONS - LOWER DAM
8	REPAIR PLAN - LOWER DAM
9	DETAILS
10	DETAILS
11	CROSS SECTIONS

PROJECT DESCRIPTION:

THIS PROJECT IS TO PERFORM REPAIR OF THE UPPER AND LOWER DAMS ON THE JEFF VALLEY PROPERTY.



LOCATION MAP
NOT TO SCALE

PREPARED FOR:



SDG&E
101 ASH STREET
SAN DIEGO, CA 92101

PREPARED BY:



10875 RANCHO BERNARDO ROAD
SUITE 200
SAN DIEGO, CALIFORNIA 92127, USA
PHONE: 858.674.6559

REV	DATE	DESCRIPTION	MH	SF
1	11/21/2013	BID PACKAGE		
<p>TITLE SHEET</p> <p>PROJECT: JEFF VALLEY DAM REPAIRS</p> <p>SITE: SAN DIEGO COUNTY, CALIFORNIA</p>				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: SF	DATE: NOVEMBER 2013	
		DRAWN BY: JA	PROJECT NO.: SC0666-03-01	
		CHECKED BY: SCK	FILE: SC0666-01	
		REVIEWED BY: JLN	DRAWING NO.: 1 OF 11	
		APPROVED BY: RSJ		

GENERAL NOTES:

1. THE WORK UNDERTAKEN BY THIS DOCUMENT IS FOR SAN DIEGO GAS & ELECTRIC COMPANY, HEREAFTER REFERENCED TO AS SDG&E. GEOSYNTEC CONSULTANTS PERFORMED THE DESIGN AND IS THE ENGINEER.
2. CONTRACTOR SHALL ON DISCOVERING ANY ERROR OR OMISSION IN THE PLANS, IMMEDIATELY BRING IT TO THE ATTENTION OF ENGINEER.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK AND SHALL EXERCISE DUE CAUTION TO AVOID DAMAGE TO SUCH PROPERTY.
4. EXISTING IMPROVEMENTS VISIBLE AT THE JOB SITE, FOR WHICH NO SPECIFIC DISPOSITION IS MADE ON THE PLANS, BUT WHICH COULD REASONABLY BE ASSUMED TO INTERFERE WITH SATISFACTORY COMPLETION OF THE WORK, SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER IMMEDIATELY.
5. CONTRACTOR SHALL NOT INTERRUPT THE SERVICE, FUNCTION, OR DISTURB THE SUPPORT OF ANY UTILITY WITHOUT AUTHORIZATION IN WRITING FROM THE UTILITY OWNER.
6. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF UTILITIES AND UNDERGROUND PIPING LOCATIONS IN THE AREA OF PROPOSED SITE IMPROVEMENTS.
7. UPON LEARNING OF THE EXISTENCE OF ANY UTILITY OMITTED FROM OR SHOWN INCORRECTLY ON THE PLANS, CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER IN WRITING.
8. CONTRACTOR SHALL REPLACE IN KIND ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION.
9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND LEAVE SITE THROUGH THE CONSTRUCTION ENTRANCE.
10. CONTACTOR TO BE AWARE OF RESTRICTIONS ASSOCIATED WITH ARMY CORPS OF ENGINEERS 404 PERMIT FOR ENTERING JURSDICTIONAL WETLANDS.
11. CONSTRUCTION WATER SHALL BE LEGALLY OBTAINED BY CONTRACTOR OFFSITE.
12. CONTRACTOR SHALL CLEAR AND GRUB BORROW AREA TO 6 INCHES BELOW SURFACE PRIOR TO EXCAVATION. VEGETATION AND TOPSOIL FROM BORROW AREA CLEARING AND GRUBBING SHALL BE TEMPORARILY STOCKPILED AND PLACED ON THE FINISHED GRADE OF THE BORROW AREA AFTER COMPLETION OF EARTHWORK ACTIVITIES. EXTENTS OF BORROW AREAS SHALL BE DETERMINED IN THE FIELD AND APPROVED BY THE OWNER. MAXIMUM EXCAVATION DEPTH IN BORROW AREA SHALL BE 5 FEET. SITE CLEARING AND RESTORATION SHALL BE PERFORMED IN THE BORROW AREA.
13. VEHICLES SHALL NOT BE DRIVEN ON THE DAM UNLESS PRE-APPROVED BY THE OWNER.

SURVEY CONTROL STATEMENT:

HORIZONTAL CONTROL: HORIZONTAL CONTROL IS BASED ON THE CALIFORNIA COORDINATE SYSTEM NAD83 (2010 EPOCH), ZONE 6, ESTABLISHED BY NATIONAL GEODETIC SURVEY OPUS SOLUTIONS FROM CORS STATIONS.

VERTICAL CONTROL: ELEVATION ESTABLISHED FROM NATIONAL GEODETIC SURVEY OPUS SOLUTION FROM CORS STATIONS, NAVD88 ELEVATION 4,968.02.

PROJECT BENCHMARK: 60D NAIL SET ON TOP OF DAM.

PROJECT CONTROL:

UPPER DAM	
60D NAIL SET ON TOP OF DAM	WOOD HUB SET ALONG DIRT ROAD
Northing 2,055,159.893	Northing 2,055,291,134
Easting 6,382,518.301	Easting 6,382,419.053
Elevation 4,968.02	Elevation 4,978.78

LOWER DAM	
60D NAIL SET ON TOP OF DAM	WOOD HUB AND LATH SET IN CLEARING
Northing 2,054,208.716	Northing 2,054,335.060
Easting 6,382,243.602	Easting 6,382,072.763
Elevation 4,921.10	Elevation 4,931.31



SITE PLAN

SCALE: 1" = 300'

ABBREVIATIONS:

ABBREVIATION	DESCRIPTION
CY	CUBIC YARDS
EW	EACH WAY
FG	FINISH GRADE
FR	FIBER ROLL
FT	FOOT
MIN	MINIMUM
MAX	MAXIMUM
NTS	NOT TO SCALE
OC	ON CENTER
TYP	TYPICAL

LEGEND:



BOUNDARY LIMITS

ESTIMATED EARTHWORK VOLUMES:

EARTHWORK ITEM	VOLUME (CY)
EXCAVATION (BORROW AREA)	42
COMPACTED FILL AT UPPER DAM	51
CUT AT UPPER DAM	9
2-TON RIPRAP	65
1/4-TON RIPRAP	16
CONCRETE FILL	8

UTILITY ALERT NOTE:

ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND UTILITY FACILITIES NOT KNOWN OR IN A LOCATION DIFFERENT FROM THAT WHICH IS SHOWN ON THE PLANS OR IN THE TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL UNDERGROUND FACILITIES PRIOR TO PERFORMING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE. FORTY-EIGHT HOURS BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND FACILITIES BY CONTACTING UNDERGROUND SERVICE ALERT AT TELEPHONE 1-800-422-4133.

THE CONTRACTOR MUST ALSO INDIVIDUALLY CONTACT OPERATORS OF GRAVITY SEWER SYSTEMS AND CERTAIN OTHER UTILITIES, WHO ARE NOT MEMBERS OF UNDERGROUND SERVICE ALERT.

REV	DATE	DESCRIPTION	DRN	APP
1	11/21/2013	BID PACKAGE	MH	SF

Geosyntec
consultants

10875 RANCHO BERNARDO RD, SUITE 200
SAN DIEGO, CA 92127
PHONE: 858.674.6559

SDGE

101 ASH STREET
SAN DIEGO, CA 92101

TITLE: **NOTES AND SITE PLAN**

PROJECT: **JEFF VALLEY DAM REPAIRS**

SITE: **SAN DIEGO COUNTY, CALIFORNIA**

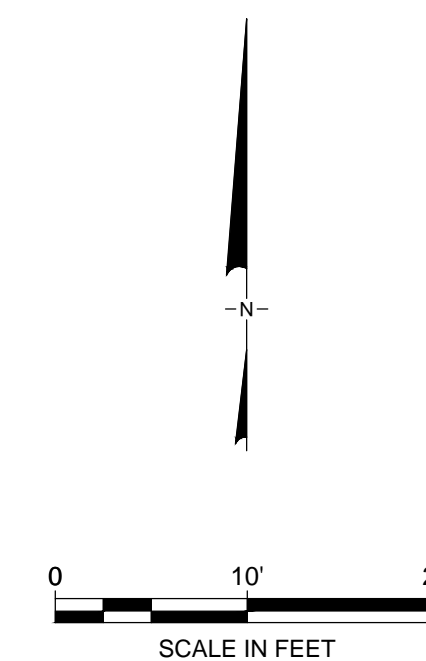
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.	DESIGN BY: SF	DATE: NOVEMBER 2013	
SIGNATURE	DRAWN BY: JA	PROJECT NO.: SC0666-03-01	
DATE	CHECKED BY: SCK	FILE: SC0666-02	
	REVIEWED BY: JLN	DRAWING NO.: 2 OF 11	
	APPROVED BY: RSJ		



LEGEND

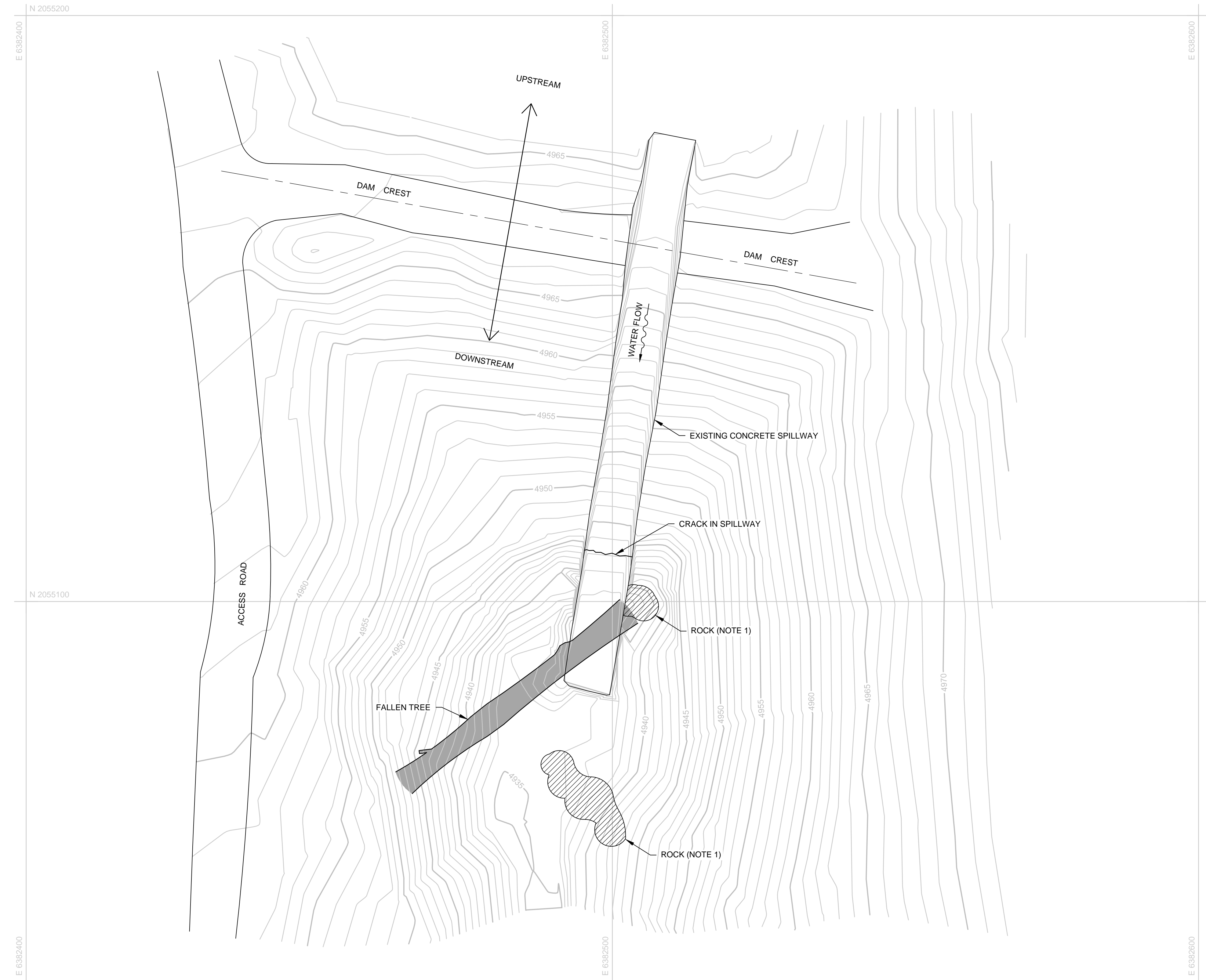
- 4965— EXISTING GROUND MAJOR CONTOUR (5')
- EXISTING GROUND MINOR CONTOUR (1')

NOTES:

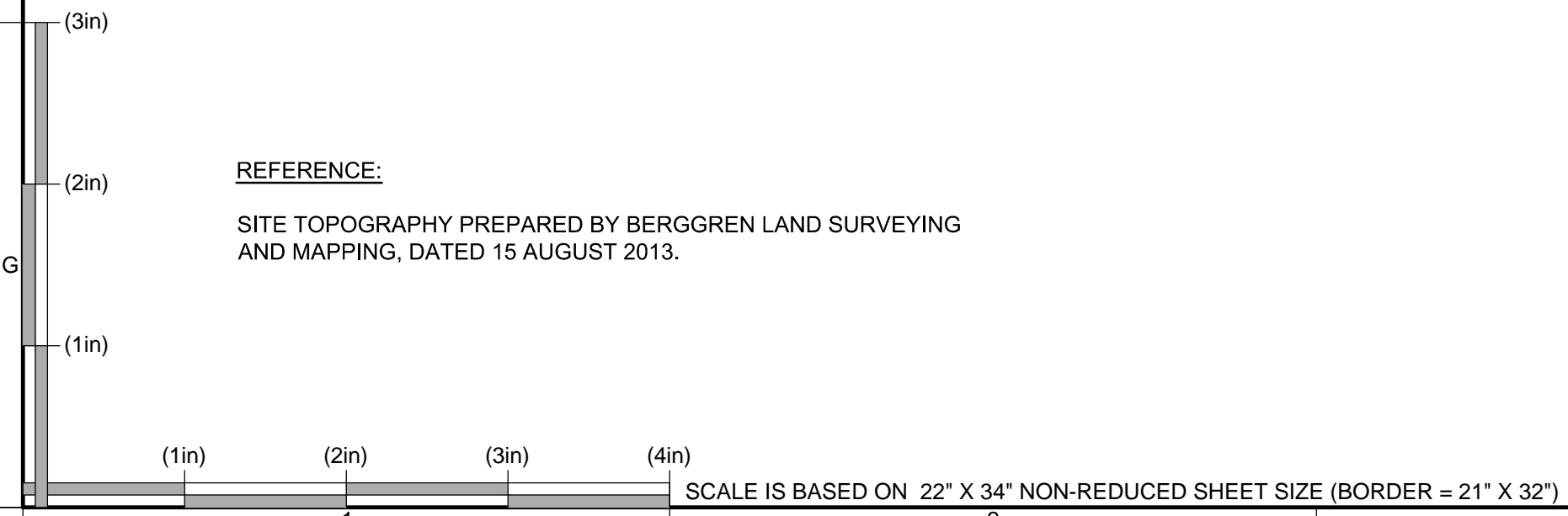
1. ROCKS NOTED ARE ROCK OUTCROPS AT THE SURFACE.
2. TREES AND OTHER VEGETATION NOT SHOWN.



1	11/21/2013	BID PACKAGE	MH	SF
REV	DATE	DESCRIPTION	DRN	APP
		 10875 RANCHO BERNARDO RD, SUITE 200 SAN DIEGO, CA 92127 PHONE: 858.674.6559	 101 ASH STREET SAN DIEGO, CA 92101	
TITLE: EXISTING CONDITIONS - UPPER DAM				
PROJECT: JEFF VALLEY DAM REPAIRS				
SITE: SAN DIEGO COUNTY, CALIFORNIA				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED. _____ SIGNATURE _____ DATE		DESIGN BY: SF	DATE: NOVEMBER 2013	
		DRAWN BY: JA	PROJECT NO.: SC0666-03-01	
		CHECKED BY: SCK	FILE: SC0666-03	
		REVIEWED BY: JLN	DRAWING NO.:	
		APPROVED BY: RSJ	3 OF 11	



REFERENCE:
 SITE TOPOGRAPHY PREPARED BY BERGGREN LAND SURVEYING AND MAPPING, DATED 15 AUGUST 2013.



O:\CAD\SC0666 - Jeff Valley\plansets_Current Set\SC0666-03.dwg Last Edited by: MHrist on 11/21/2013 11:07 AM

O:\CAD\SC0666 - Jeff Valley\plansets_Current\Set\SC0666-04.dwg Last Edited by: MHirst on 11/21/2013 10:43 AM



SURVEY CONTROL POINTS

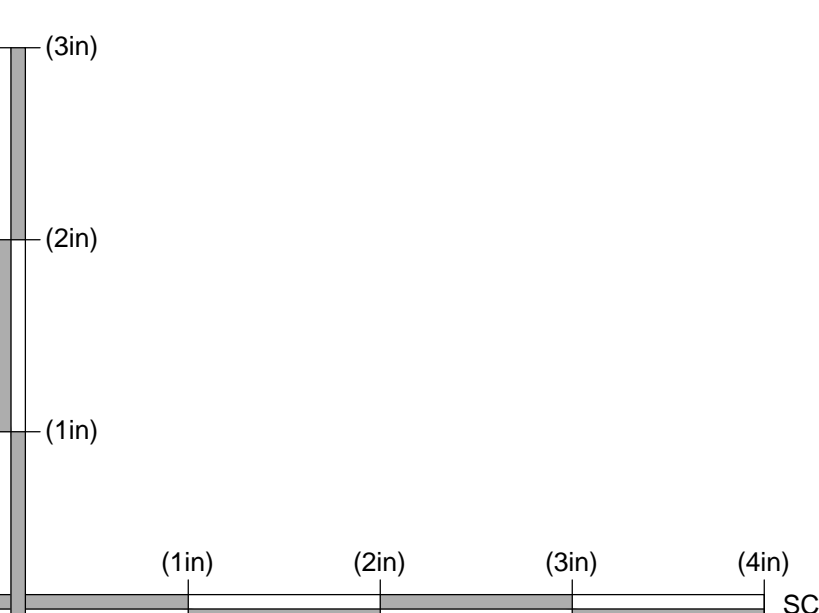
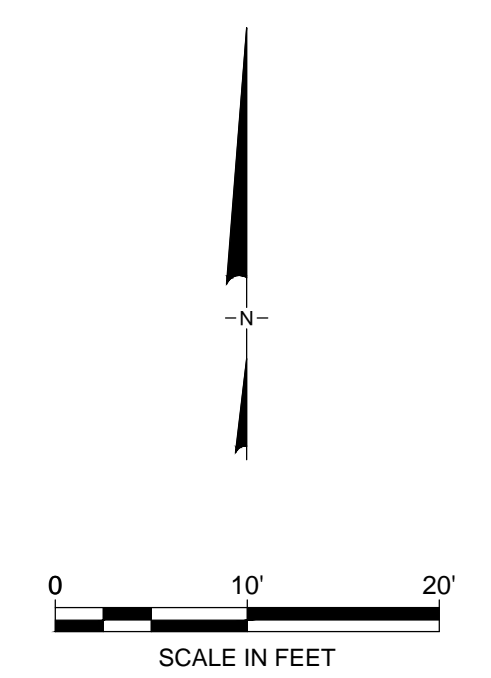
PT#	EASTING	NORTHING	ELEV.	DESCRIPTION
100	6382466.88	2055134.85	4955.86	CLEAR AND GRUB LIMITS
101	6382440.73	2055152.13	4964.45	CLEAR AND GRUB LIMITS
102	6382437.63	2055155.93	4964.96	CLEAR AND GRUB LIMITS
103	6382437.05	2055158.95	4965.51	CLEAR AND GRUB LIMITS
104	6382437.69	2055161.09	4965.88	CLEAR AND GRUB LIMITS
105	6382440.14	2055163.84	4966.10	CLEAR AND GRUB LIMITS
106	6382442.16	2055164.95	4966.62	CLEAR AND GRUB LIMITS
107	6382441.29	2055174.73	4966.53	CLEAR AND GRUB LIMITS
108	6382454.41	2055174.53	4966.24	CLEAR AND GRUB LIMITS
109	6382477.02	2055169.84	4967.00	CLEAR AND GRUB LIMITS
110	6382491.46	2055166.79	4968.00	CLEAR AND GRUB LIMITS
111	6382503.34	2055165.98	4968.00	CLEAR AND GRUB LIMITS
112	6382505.73	2055123.47	4952.17	CLEAR AND GRUB LIMITS
113	6382517.52	2055120.43	4952.32	CLEAR AND GRUB LIMITS
114	6382519.74	2055114.76	4952.99	CLEAR AND GRUB LIMITS
115	6382514.76	2055093.88	4947.30	CLEAR AND GRUB LIMITS
116	6382513.48	2055092.03	4946.22	CLEAR AND GRUB LIMITS
117	6382507.41	2055087.57	4941.72	CLEAR AND GRUB LIMITS
118	6382504.40	2055082.76	4939.24	CLEAR AND GRUB LIMITS
119	6382508.46	2055069.29	4943.16	CLEAR AND GRUB LIMITS
120	6382504.15	2055055.92	4944.92	CLEAR AND GRUB LIMITS
121	6382473.97	2055061.15	4939.96	CLEAR AND GRUB LIMITS
122	6382476.63	2055079.85	4938.88	CLEAR AND GRUB LIMITS
123	6382472.77	2055090.82	4943.34	CLEAR AND GRUB LIMITS
124	6382477.95	2055117.66	4950.99	CLEAR AND GRUB LIMITS

LEGEND

- 4965 EXISTING GROUND MAJOR CONTOUR (5')
- EXISTING GROUND MINOR CONTOUR (1')
- AREA OF SPILLWAY REMOVAL
- AREA OF CLEARING AND GRUBBING
- TEMPORARY GRAVEL BAGS
- CLEARING AND GRUBBING LIMITS CONTROL POINT

NOTES:

- TEMPORARY DIVERSION PIPE TO BE PLACED BY CONTRACTOR TO DIVERT WATER FROM RESERVOIR AROUND SPILLWAY DURING REPAIR. THE ACTUAL LOCATION OF THE PIPE IS THE RESPONSIBILITY OF THE CONTRACTOR, BUT THE PIPE SHOULD DISCHARGE AT THE DESIGNATED POINT. CONTRACTOR TO SIZE DIVERSION PIPE.
- SITE CLEARING SHALL ALSO BE PERFORMED AT THE BORROW AREA SHOWN ON SHEET 2.
- SAWCUT THE SPILLWAY A MINIMUM OF 6 INCHES UPSTREAM OF THE EXISTING CRACK IN THE SPILLWAY. FINAL LOCATION OF SAWCUT OF THE SPILLWAY TO BE MADE IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE DESIGN ENGINEER.



SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

1	11/21/2013	BID PACKAGE	MH	SF
REV	DATE	DESCRIPTION	DRN	APP
10875 RANCHO BERNARDO RD, SUITE 200 SAN DIEGO, CA 92127 PHONE: 858.674.6559		101 ASH STREET SAN DIEGO, CA 92101		
TITLE: SITE PREPARATION - UPPER DAM				
PROJECT: JEFF VALLEY DAM REPAIRS				
SITE: SAN DIEGO COUNTY, CALIFORNIA				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: SF	DATE: NOVEMBER 2013	
SIGNATURE		DRAWN BY: JA	PROJECT NO.: SC0666-03-01	
DATE		CHECKED BY: SCK	FILE: SC0666-04	
		REVIEWED BY: JLN	DRAWING NO.: 4 OF 11	
		APPROVED BY: RSJ		



SURVEY CONTROL POINTS

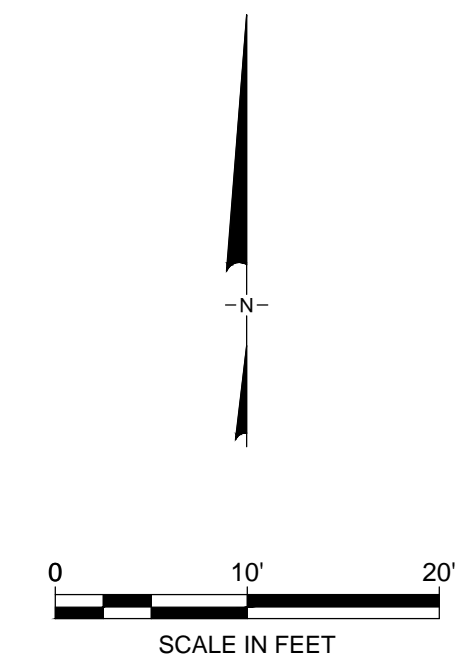
PT#	EASTING	NORTHING	ELEV.	DESCRIPTION
200	6382480.56	2055083.80	4936.00	FG POINT
201	6382478.16	2055090.81	4938.86	FG POINT
202	6382480.51	2055098.83	4942.01	FG POINT
203	6382482.04	2055104.23	4944.13	FG POINT
204	6382483.48	2055107.02	4945.21	FG POINT
205	6382489.87	2055110.94	4946.63	FG POINT
206	6382492.30	2055113.46	4947.58	FG POINT
207	6382493.27	2055116.13	4948.62	FG POINT
208	6382487.23	2055115.57	4948.54	FG POINT
209	6382483.45	2055119.02	4950.00	FG POINT
210	6382493.17	2055119.58	4950.00	FG POINT
211	6382496.55	2055119.55	4950.00	FG POINT
212	6382507.66	2055118.02	4950.00	FG POINT
213	6382514.89	2055116.00	4950.00	FG POINT
214	6382512.41	2055111.52	4948.00	FG POINT
215	6382513.07	2055108.09	4946.76	FG POINT
216	6382511.97	2055105.10	4945.49	FG POINT
217	6382510.72	2055101.99	4944.15	FG POINT
218	6382510.30	2055096.61	4942.05	FG POINT
219	6382509.76	2055095.43	4941.53	FG POINT
220	6382505.83	2055092.62	4940.00	FG POINT
221	6382503.33	2055090.61	4938.96	FG POINT
222	6382501.82	2055088.53	4938.00	FG POINT
223	6382501.11	2055083.73	4937.00	FG POINT
224	6382500.43	2055077.09	4937.00	FG POINT
225	6382486.22	2055075.02	4935.77	FG POINT
226	6382490.37	2055084.43	4936.00	FG POINT
227	6382491.71	2055094.47	4940.00	FG POINT
228	6382495.20	2055107.04	4945.00	FG POINT
229	6382503.74	2055106.00	4945.00	FG POINT
230	6382502.05	2055093.43	4940.00	FG POINT
231	6382499.14	2055078.16	4936.00	FG POINT
232	6382499.57	2055083.85	4935.99	FG POINT
300	6382480.56	2055083.80	4936.00	RIPRAP LIMITS
301	6382480.42	2055083.65	4936.10	RIPRAP LIMITS
302	6382491.44	2055084.83	4936.18	RIPRAP LIMITS
303	6382499.40	2055083.37	4935.99	RIPRAP LIMITS
304	6382503.49	2055069.29	4940.37	RIPRAP LIMITS
305	6382502.26	2055062.52	4942.63	RIPRAP LIMITS

LEGEND

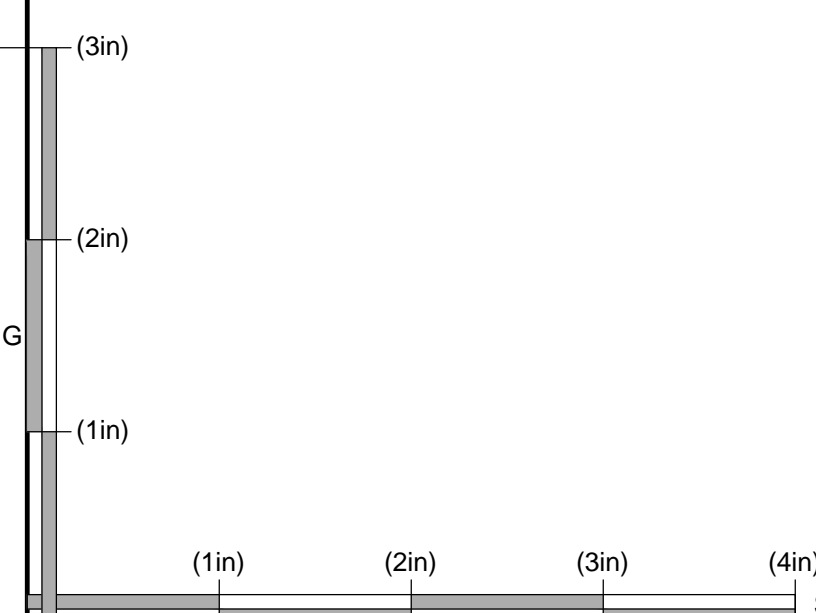
- 4965 EXISTING GROUND MAJOR CONTOUR (5')
- EXISTING GROUND MINOR CONTOUR (1')
- 4940 PROPOSED GRADING MAJOR CONTOUR (5')
- PROPOSED GRADING MINOR CONTOUR (1')
- PROPOSED LIMIT OF GRADING
- LIMITS OF GEOSYNTHETIC
- 2-TON RIPRAP
- 1/4-TON RIPRAP
- FINISH GRADING CONTROL POINT
- RIPRAP PLACEMENT CONTROL POINT

NOTES:

1. NEW CONCRETE SPILLWAY TO BEAR ON NEW GRADED SURFACE. CONSTRUCT SPILLWAY TO MATCH DIMENSIONS OF EXISTING SPILLWAY.
2. PLACE GEOSYNTHETIC BEFORE PLACING NEW FILL.



O:\CAD\SC0666 - Jeff Valley\plansets_Current Set\SC0666-05.dwg Last Edited by: MHirst on 11/21/2013 11:11 AM



SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

1	11/21/2013	BID PACKAGE	MH	SF
REV	DATE	DESCRIPTION	DRN	APP
10875 RANCHO BERNARDO RD, SUITE 200 SAN DIEGO, CA 92127 PHONE: 858.674.6559		101 ASH STREET SAN DIEGO, CA 92101		
TITLE: REPAIR PLAN - UPPER DAM				
PROJECT: JEFF VALLEY DAM REPAIRS				
SITE: SAN DIEGO COUNTY, CALIFORNIA				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: SF	DATE: NOVEMBER 2013	
SIGNATURE		DRAWN BY: JA	PROJECT NO.: SC0666-03-01	
DATE		CHECKED BY: SCK	FILE: SC0666-05	
		REVIEWED BY: JLN	DRAWING NO.: 5 OF 11	
		APPROVED BY: RSJ		

O:\CAD\SC0666 - Jeff Valley\plansets_Current Set\SC0666-06.dwg Last Edited by: MHirst on 11/21/2013 11:14 AM



SURVEY CONTROL POINTS

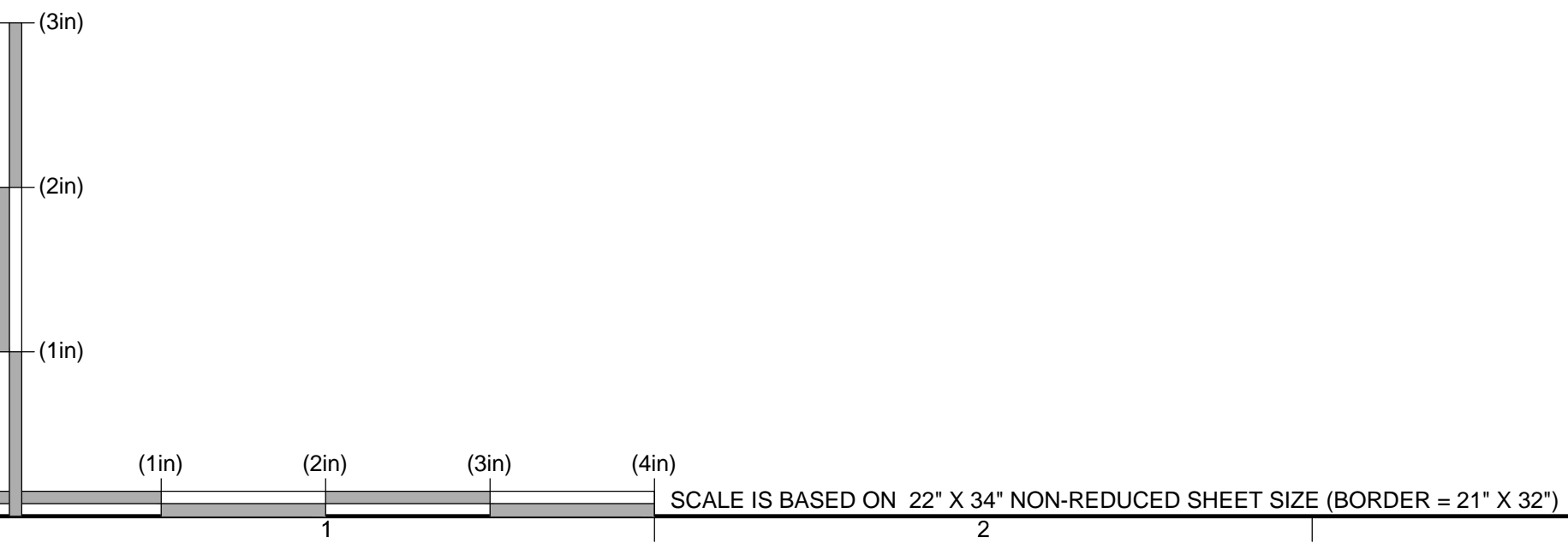
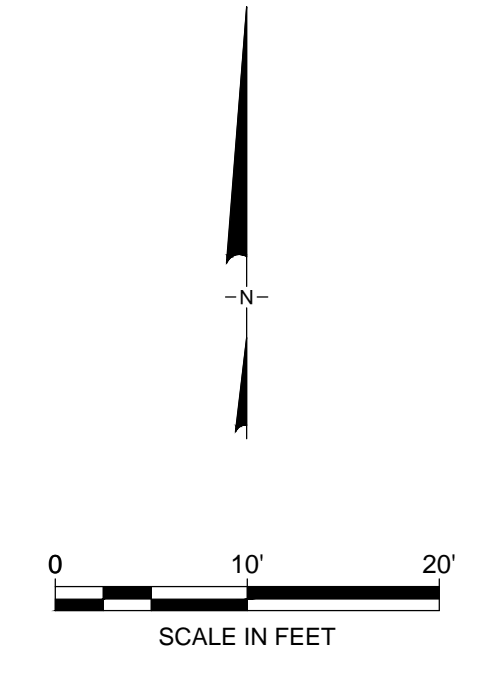
PT#	EASTING	NORTHING	ELEV.	DESCRIPTION
400	6382478.17	2055082.34	4937.63	MULCH LIMITS
401	6382475.48	2055090.09	4940.87	MULCH LIMITS
402	6382482.92	2055114.81	4949.14	MULCH LIMITS
403	6382469.40	2055130.19	4954.41	MULCH LIMITS
404	6382452.94	2055142.75	4959.67	MULCH LIMITS
405	6382436.93	2055157.85	4965.35	MULCH LIMITS
406	6382442.62	2055165.04	4966.69	MULCH LIMITS
407	6382453.72	2055166.20	4966.98	MULCH LIMITS
408	6382465.93	2055162.92	4967.00	MULCH LIMITS
409	6382490.10	2055159.32	4967.23	MULCH LIMITS
410	6382502.19	2055157.33	4967.05	MULCH LIMITS
411	6382505.38	2055121.39	4951.02	MULCH LIMITS
412	6382513.30	2055120.14	4951.30	MULCH LIMITS
413	6382518.06	2055116.17	4952.01	MULCH LIMITS
414	6382512.83	2055094.66	4945.91	MULCH LIMITS
415	6382505.13	2055087.46	4940.28	MULCH LIMITS
416	6382503.95	2055082.92	4938.93	MULCH LIMITS
417	6382499.40	2055083.37	4935.99	MULCH LIMITS
418	6382491.44	2055084.83	4936.18	MULCH LIMITS

LEGEND

- EXISTING GROUND MAJOR CONTOUR (5')
- EXISTING GROUND MINOR CONTOUR (1')
- PROPOSED GRADING MAJOR CONTOUR (5')
- PROPOSED GRADING MINOR CONTOUR (1')
- PROPOSED LIMIT OF GRADING
- LIMITS OF GEOSYNTHETIC
- 2-TON RIPRAP
- 1/4-TON RIPRAP
- LIMITS OF MULCH
- FIBER ROLL
- MULCH LIMITS CONTROL POINT

NOTES:

- NEW CONCRETE SPILLWAY TO BEAR ON NEW GRADED SURFACE. CONSTRUCT SPILLWAY TO MATCH DIMENSIONS OF EXISTING SPILLWAY.
- PLACE FILTER GEOTEXTILE BEFORE PLACING NEW FILL.
- MULCH TO BE PLACED ON DISTURBED GROUND AT BORROW AREA SHOWN ON SHEET 2.



REV	DATE	DESCRIPTION	MH	SF
1	11/21/2013	BID PACKAGE		

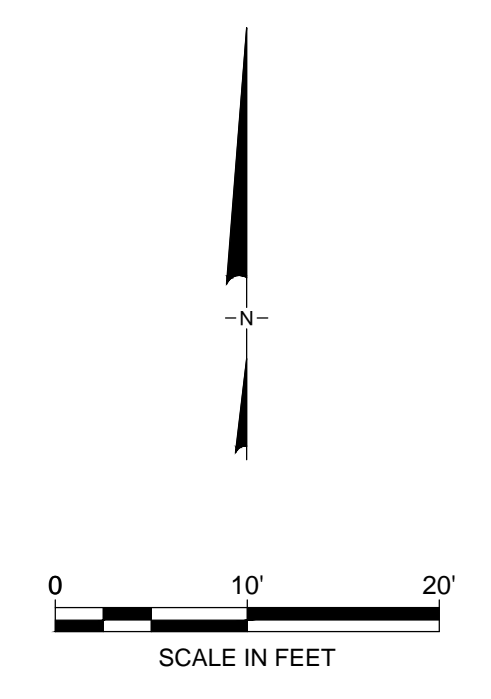
 10875 RANCHO BERNARDO RD, SUITE 200 SAN DIEGO, CA 92127 PHONE: 858.674.6559		 101 ASH STREET SAN DIEGO, CA 92101	
TITLE: SITE RESTORATION - UPPER DAM			
PROJECT: JEFF VALLEY DAM REPAIRS			
SITE: SAN DIEGO COUNTY, CALIFORNIA			
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: SF	DATE: NOVEMBER 2013
		DRAWN BY: JA	PROJECT NO.: SC0666-03-01
		CHECKED BY: SCK	FILE: SC0666-06
		REVIEWED BY: JLN	DRAWING NO.: 6 OF 11
SIGNATURE _____ DATE _____		APPROVED BY: RSJ	



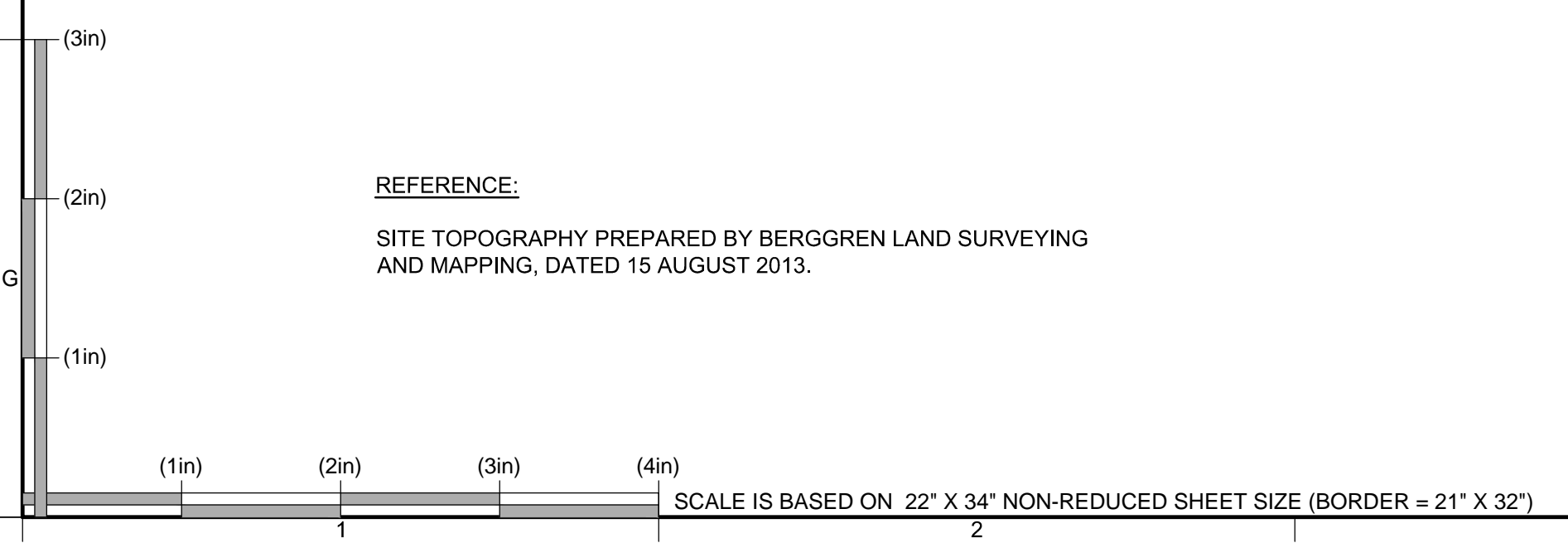
LEGEND

	EXISTING GROUND MAJOR CONTOUR (5')
	EXISTING GROUND MINOR CONTOUR (1')

NOTE:
 1. LOCATION OF VOIDS TO BE FIELD VERIFIED BY ENGINEER AT TIME OF GRADING.



REFERENCE:
 SITE TOPOGRAPHY PREPARED BY BERGGREN LAND SURVEYING AND MAPPING, DATED 15 AUGUST 2013.



1	11/21/2013	BID PACKAGE	MH	SF
REV	DATE	DESCRIPTION	DRN	APP
		 10875 RANCHO BERNARDO RD, SUITE 200 SAN DIEGO, CA 92127 PHONE: 858.674.6559	 101 ASH STREET SAN DIEGO, CA 92101	
TITLE: EXISTING CONDITIONS - LOWER DAM				
PROJECT: JEFF VALLEY DAM REPAIRS				
SITE: SAN DIEGO COUNTY, CALIFORNIA				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: SF	DATE: NOVEMBER 2013	
SIGNATURE		DRAWN BY: JA	PROJECT NO.: SC0666-03-01	
DATE		CHECKED BY: SCK	FILE: SC0666-07	
		REVIEWED BY: JLN	DRAWING NO.: 7 OF 11	
		APPROVED BY: RSJ		

O:\CAD\SC0666 - Jeff Valley\plansets_Current Set\SC0666-07.dwg Last Edited by: MHrist on 11/21/2013 11:16 AM



LEGEND

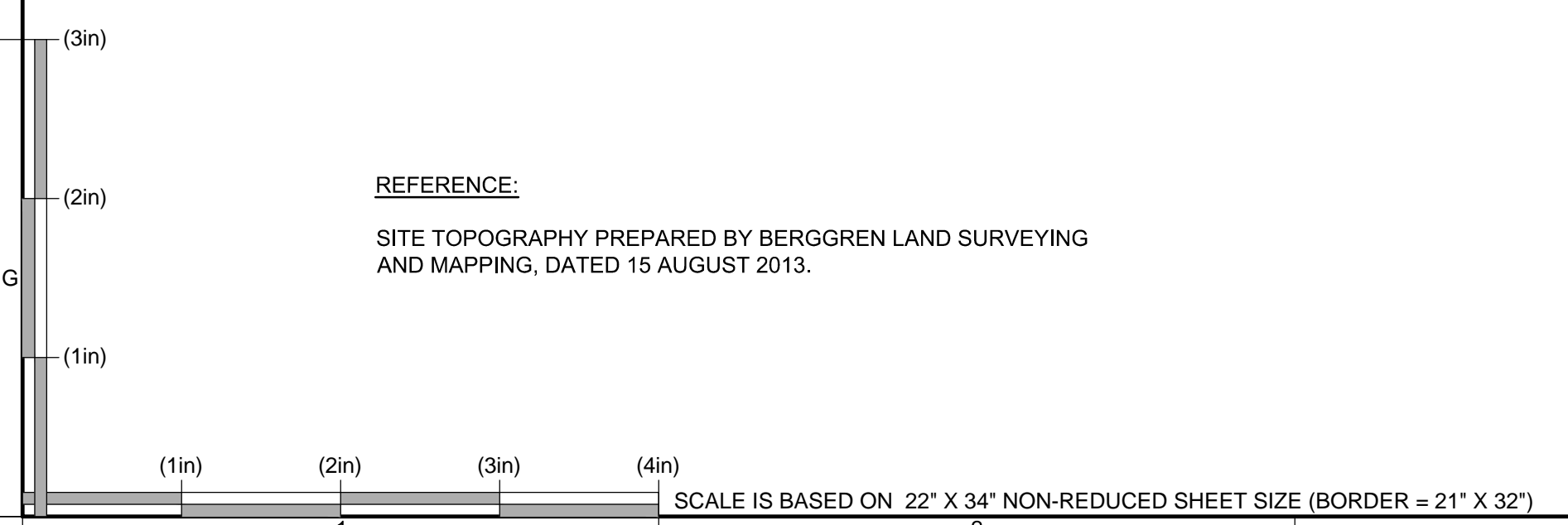
	EXISTING GROUND MAJOR CONTOUR (5')
	EXISTING GROUND MINOR CONTOUR (1')
	1/4-TON RIPRAP

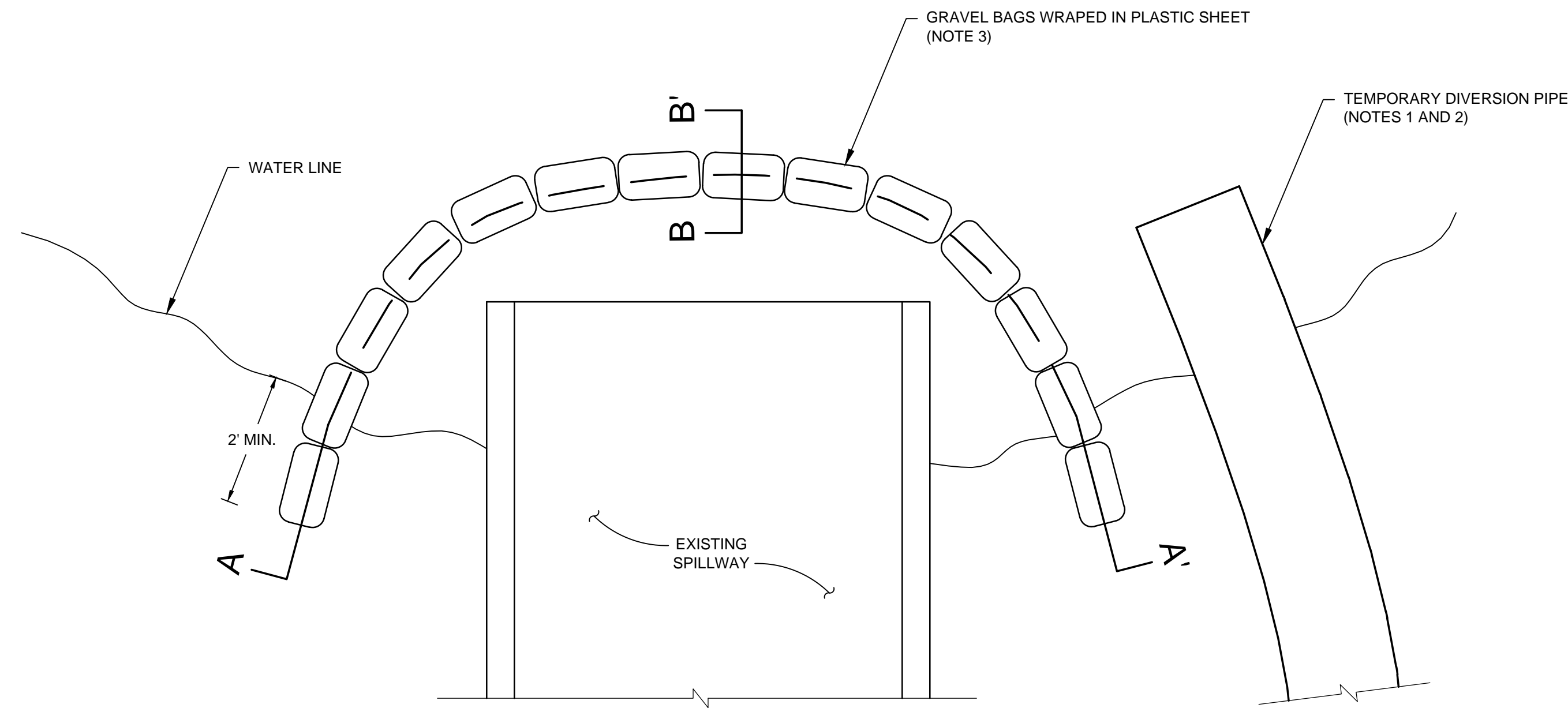
- NOTE:**
1. FILL VOID UNDER EXISTING SPILLWAY WITH CONCRETE UP TO THE BOTTOM OF SPILLWAY TO SUPPORT SPILLWAY. CONCRETE FILL SHALL COMPLY WITH TECHNICAL SPECIFICATIONS 03400 FOR CONCRETE.
 2. SITE CLEARING SHALL BE PERFORMED AT THE BORROW AREA SHOWN ON SHEET 2.
 3. CORE A 6-INCH DIAMETER HOLE THROUGH THE BOTTOM OF THE SPILLWAY AT THE LOCATION INDICATED NEAR THE UPSTREAM EXTENT OF THE VOID BENEATH THE SPILLWAY. FILL THE VOID THROUGH THE CORED HOLE WITH CONCRETE TO THE TOP OF THE CONCRETE BASE OF THE SPILLWAY.
 4. CORE A 3-INCH DIAMETER HOLE THROUGH THE BOTTOF OF THE SPILLWAY AT THE LOCATION INDICATED NEAR THE MIDDLE OF THE VOID BENEATH THE SPILLWAY TO ALLOW FOR AIR PRESSURE RELEASE DURING VOID FILLING. FILL THE CORED HOLE WITH CONCRETE TO THE TOP OF THE CONCRETE BASED OF THE SPILLWAY.

REFERENCE:
 SITE TOPOGRAPHY PREPARED BY BERGGREN LAND SURVEYING AND MAPPING, DATED 15 AUGUST 2013.

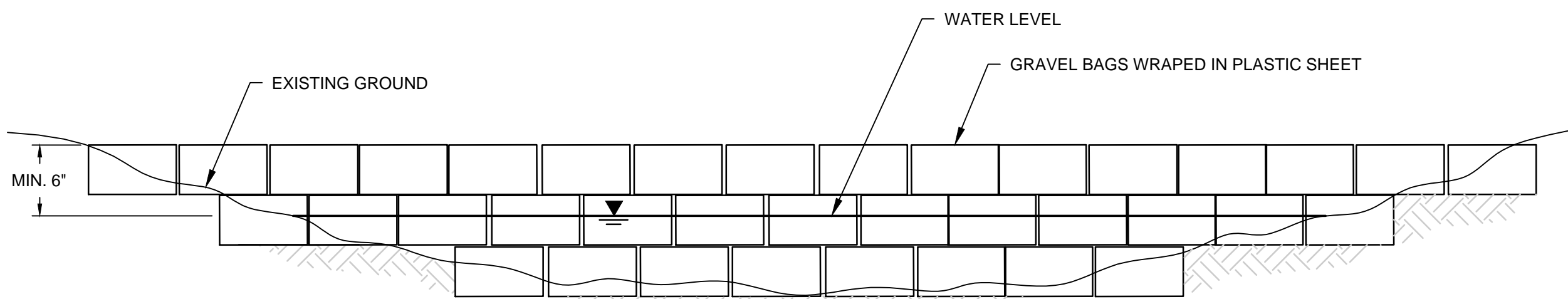
1	11/21/2013	BID PACKAGE	MH	SF
REV	DATE	DESCRIPTION	DRN	APP
		 10875 RANCHO BERNARDO RD, SUITE 200 SAN DIEGO, CA 92127 PHONE: 858.674.6559	 101 ASH STREET SAN DIEGO, CA 92101	
TITLE: REPAIR PLAN - LOWER DAM				
PROJECT: JEFF VALLEY DAM REPAIRS				
SITE: SAN DIEGO COUNTY, CALIFORNIA				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: SF	DATE: NOVEMBER 2013	
SIGNATURE		DRAWN BY: JA	PROJECT NO.: SC0666-03-01	
DATE		CHECKED BY: SCK	FILE: SC0666-08	
		REVIEWED BY: JLN	DRAWING NO.: 8 OF 11	
		APPROVED BY: RSJ		

O:\CAD\SC0666 - Jeff Valley\plansets_Current Set\SC0666-08.dwg Last Edited by: MHrist on 11/21/2013 10:42 AM

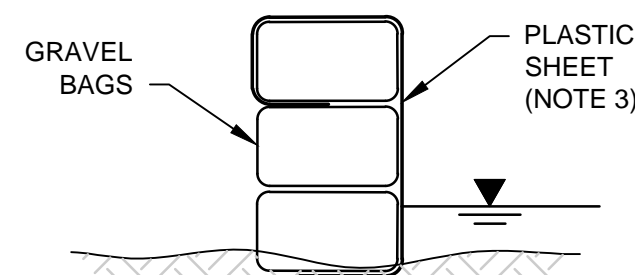




PLAN VIEW



PROFILE A-A'



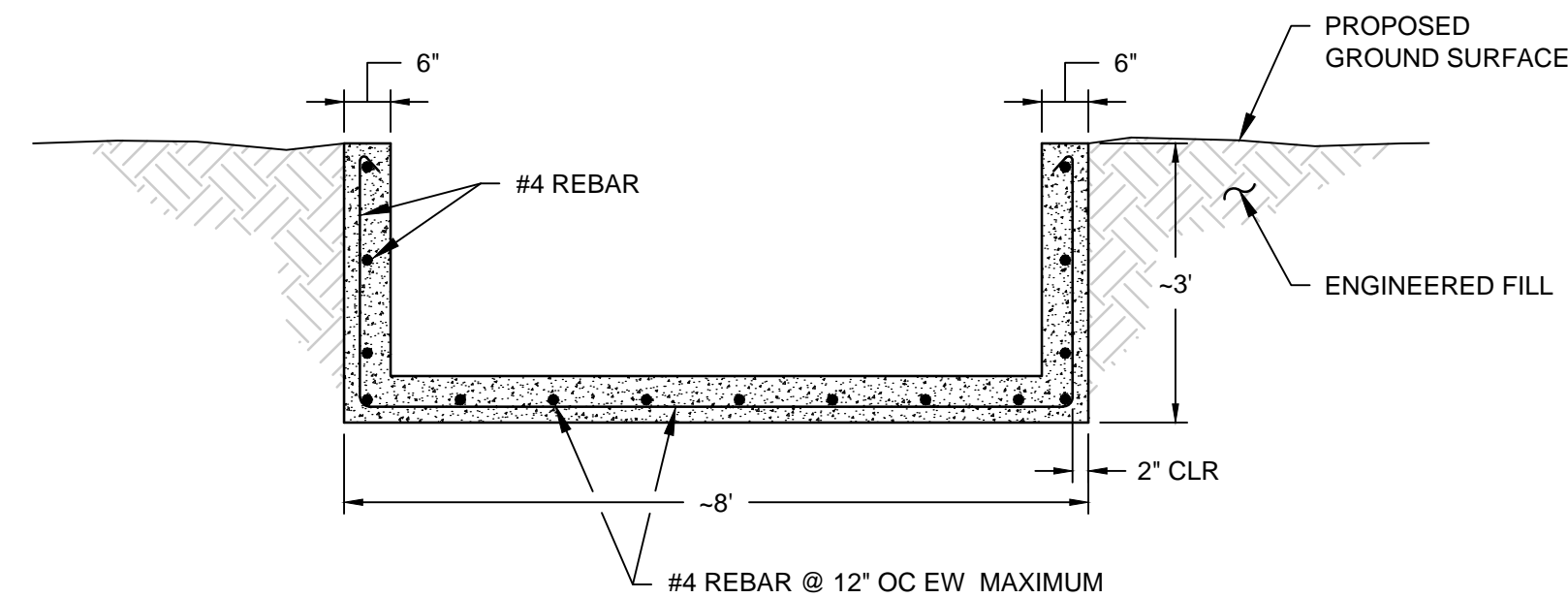
PROFILE B-B'

NOTES:

- CONTRACTOR TO SIZE TEMPORARY DIVERSION PIPE.
- CONTRACTOR TO LOCATE TEMPORARY DIVERSION PIPE INTAKE. THE CONTRACTOR IS RESPONSIBLE FOR THE DIVERSION OF WATER AROUND AREA OF CONSTRUCTION.
- PLASTIC SHEET SHALL BE A 10-MIL VISQUEEN OR APPROVED EQUIVALENT.

1
4

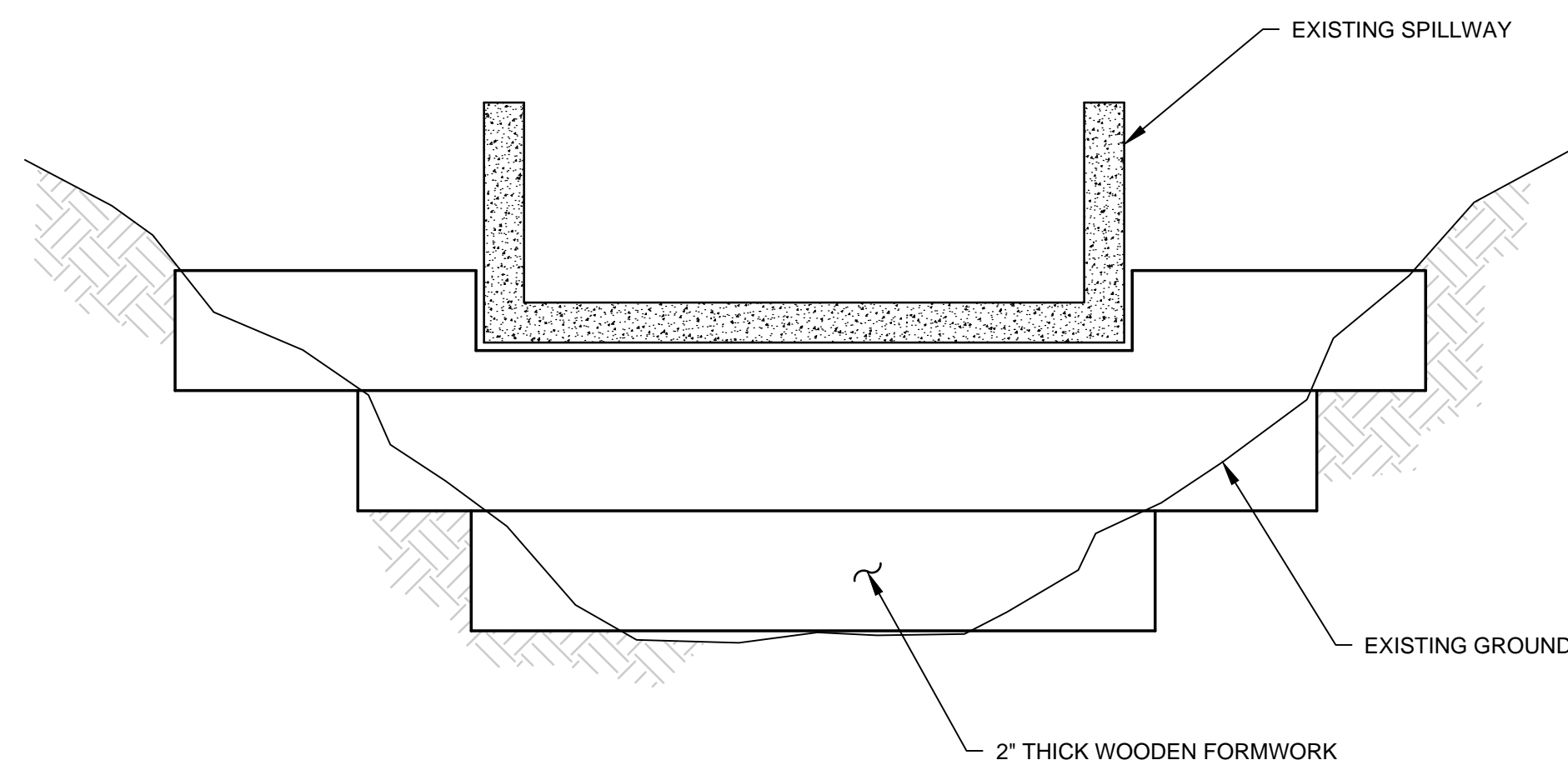
DETAIL
DIVERSION DAM
SCALE: N.T.S.
XREF: SC0666 X03 details.dwg



NOTE:
DIMENSIONS TO MATCH EXISTING AT CONNECTION
BETWEEN OLD AND NEW SPILLWAY.

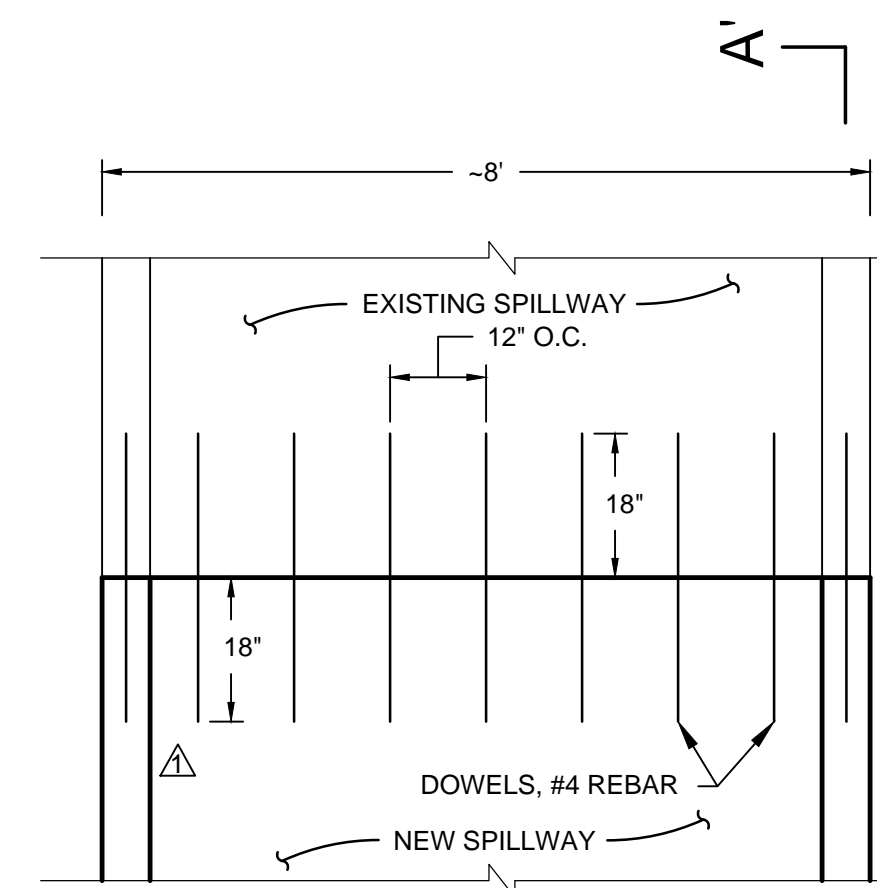
2
5

DETAIL
CONCRETE SPILLWAY
SCALE: N.T.S.
XREF: SC0666 X03 details.dwg

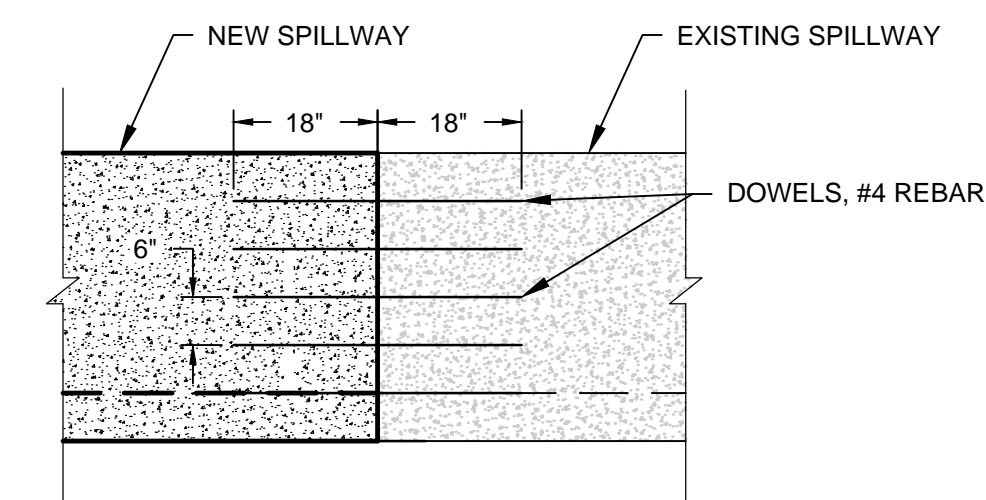


4
8

DETAIL
CONCRETE FORMWORK
SCALE: N.T.S.
XREF: SC0666 X03 details.dwg



PLAN VIEW



PROFILE A-A'

3
5

DETAIL
**CONNECTION OF NEW
SPILLWAY TO EXISTING**
SCALE: N.T.S.
XREF: SC0666 X03 details.dwg

NOTE:
REINFORCING STEEL BARS FOR DOWELS SHALL BE EPOXY
COATED GRADE 60 (Fy = 60ksi) #4 STEEL REINFORCING BARS
FABRICATED IN ACCORDANCE WITH ASTM A775 / A775 M.

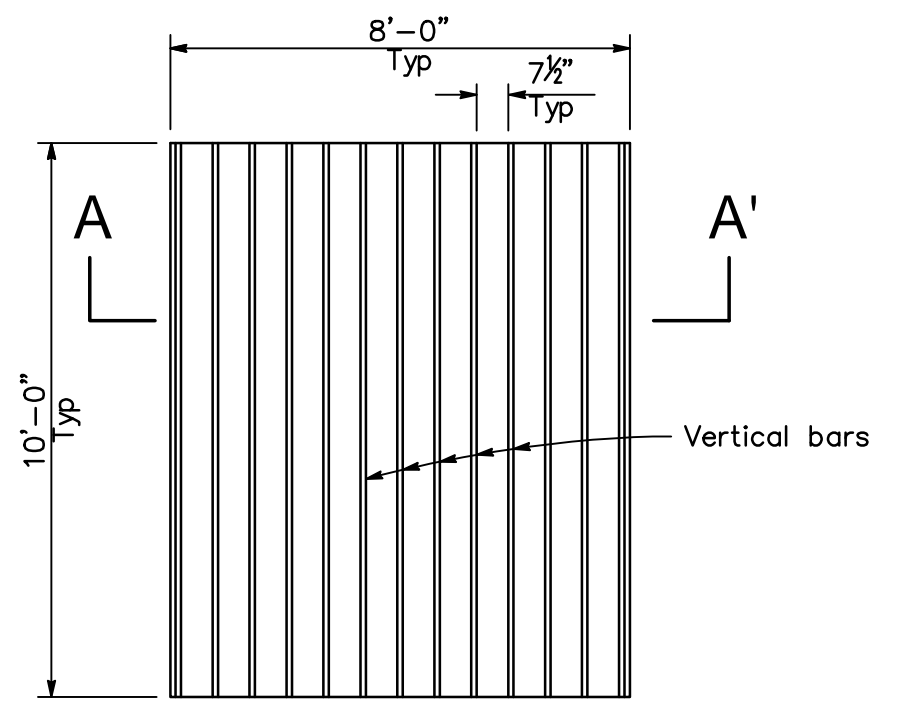
O:\CAD\SC0666 - Jeff Valley\plansets_Current Set\SC0666-09.dwg Last Edited by: MHirst on 11/21/2013 10:40 AM

REV	DATE	DESCRIPTION	MH	SF
1	11/21/2013	BID PACKAGE		
			DRN	APP

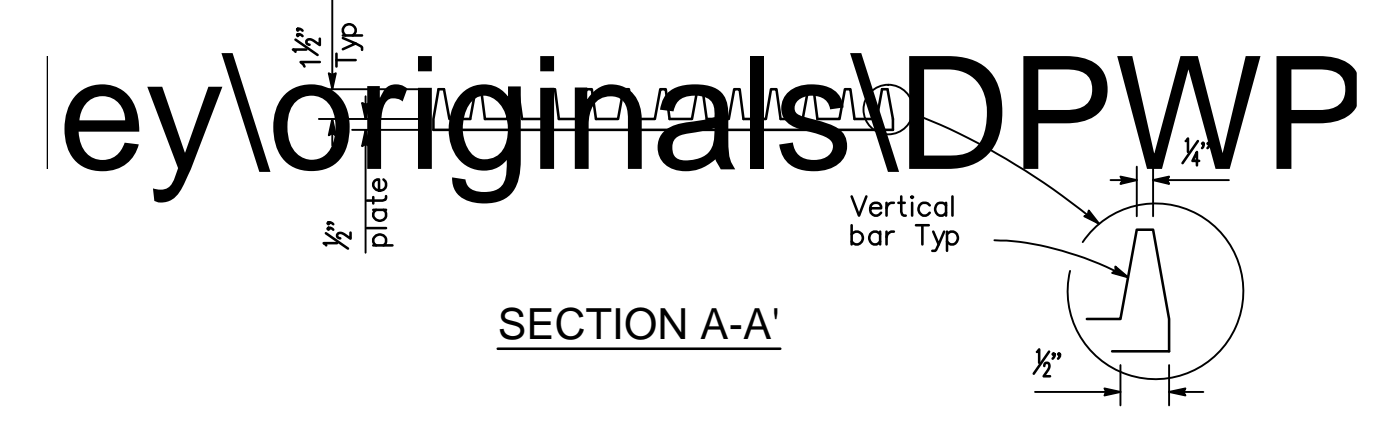
 10875 RANCHO BERNARDO RD, SUITE 200 SAN DIEGO, CA 92127 PHONE: 858.674.6559	 101 ASH STREET SAN DIEGO, CA 92101
TITLE: DETAILS	
PROJECT: JEFF VALLEY DAM REPAIRS	
SITE: SAN DIEGO COUNTY, CALIFORNIA	

THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED. SIGNATURE _____ DATE _____	DESIGN BY: SF	DATE: NOVEMBER 2013
	DRAWN BY: JA	PROJECT NO.: SC0666-03-01
	CHECKED BY: SCK	FILE: SC0666-09
	REVIEWED BY: JLN	DRAWING NO.: 9 OF 11
APPROVED BY: RSJ		

SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")



PLAN VIEW



SECTION A-A'

6
6
DETAIL
TYPICAL FIBER ROLL INSTALLATION
SCALE: N.T.S.
XREF: SC0666 X03 details.dwg

5
2
DETAIL
CONSTRUCTION ENTRANCE
SCALE: N.T.S.
XREF: XREF: SC0666 X03 details.dwg

O:\CAD\SC0666 - Jeff Valley\plansets_Current Set\SC0666-10.dwg Last Edited by: JAmos on 9/19/2013 2:21 PM



SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

REV	DATE	DESCRIPTION	DRN	APP
1	11/21/2013	BID PACKAGE	MH	SF

Geosyntec
consultants

10875 RANCHO BERNARDO RD, SUITE 200
SAN DIEGO, CA 92127
PHONE: 858.674.6559

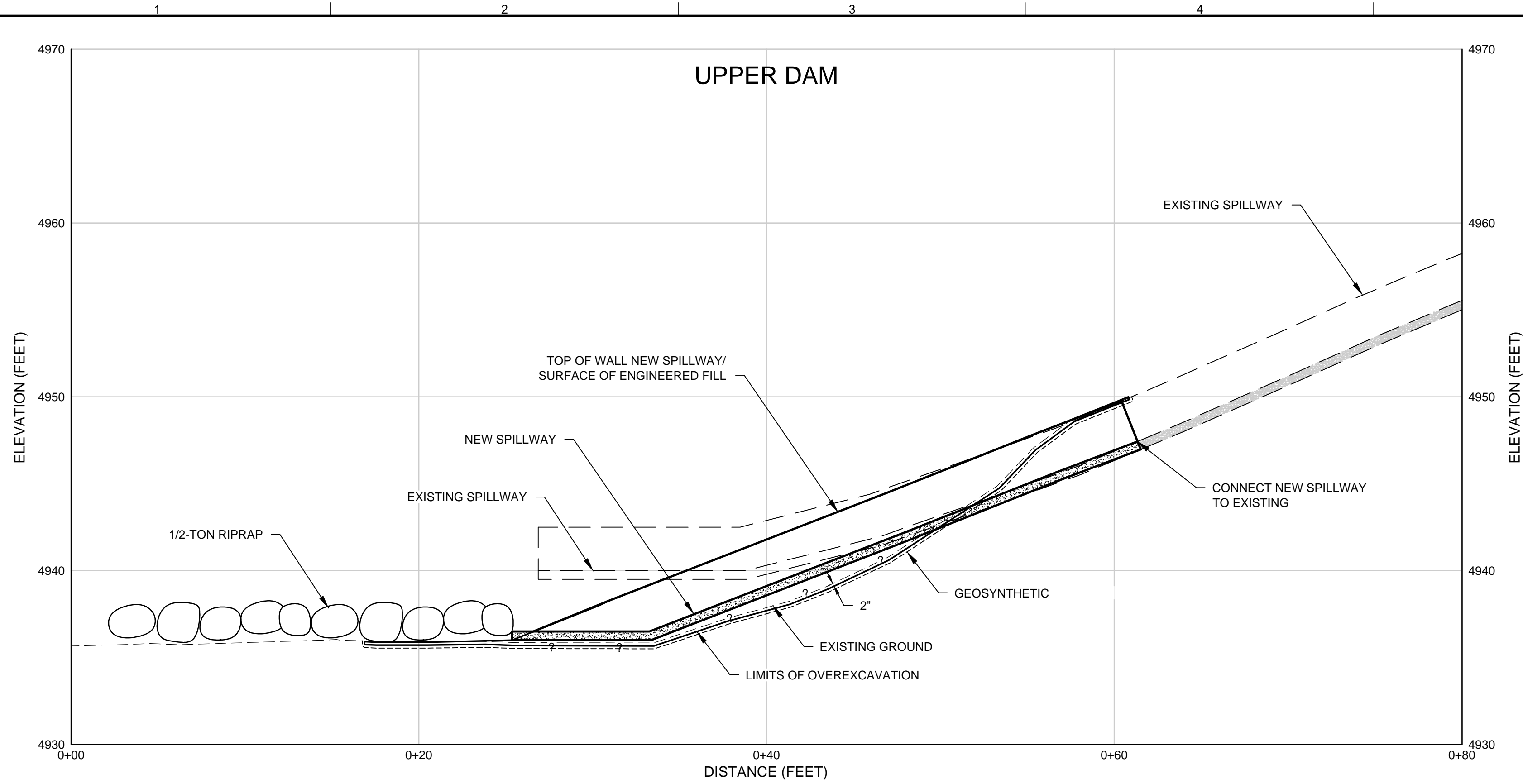
101 ASH STREET
SAN DIEGO, CA 92101

TITLE: **DETAILS**

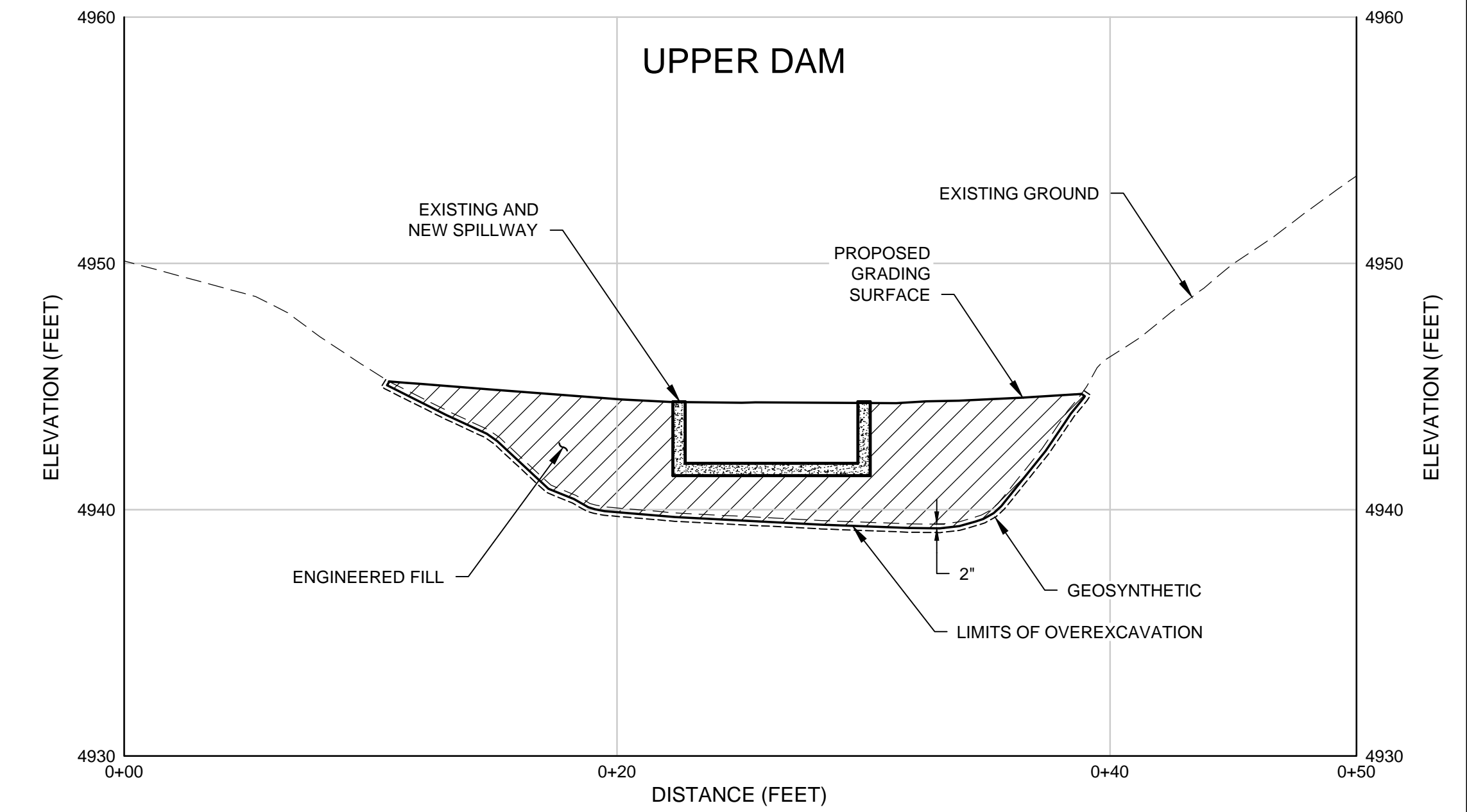
PROJECT: **JEFF VALLEY DAM REPAIRS**

SITE: **SAN DIEGO COUNTY, CALIFORNIA**

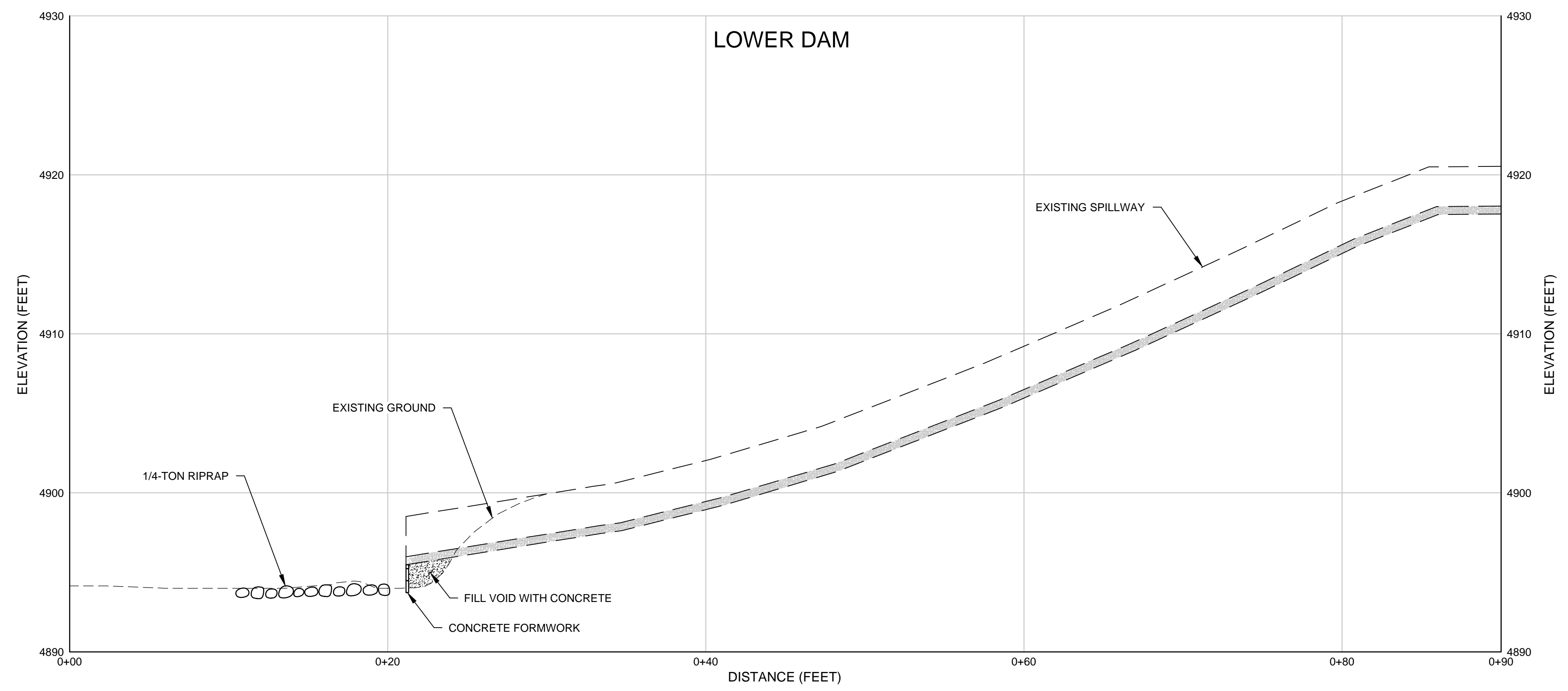
<p>THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.</p> <p>_____ SIGNATURE</p> <p>_____ DATE</p>	DESIGN BY: SF	DATE: NOVEMBER 2013
	DRAWN BY: JA	PROJECT NO.: SC0666-03-01
	CHECKED BY: SCK	FILE: SC0666-10
	REVIEWED BY: JLN	DRAWING NO.: 10 OF 11
APPROVED BY: RSJ		



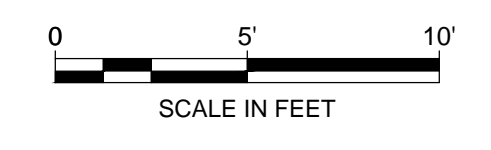
SECTION A
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'



SECTION B
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'



SECTION C
HORIZONTAL: 1" = 5'
VERTICAL: 1" = 5'



SCALE IS BASED ON 22" X 34" NON-REDUCED SHEET SIZE (BORDER = 21" X 32")

1	11/21/2013	BID PACKAGE	MH	SF
REV	DATE	DESCRIPTION	DRN	APP
10875 RANCHO BERNARDO RD, SUITE 200 SAN DIEGO, CA 92127 PHONE: 858.674.6559		101 ASH STREET SAN DIEGO, CA 92101		
TITLE: CROSS SECTIONS				
PROJECT: JEFF VALLEY DAM REPAIRS				
SITE: SAN DIEGO COUNTY, CALIFORNIA				
THIS DRAWING MAY NOT BE ISSUED FOR PROJECT TENDER OR CONSTRUCTION, UNLESS SEALED.		DESIGN BY: SF	DATE: NOVEMBER 2013	
SIGNATURE		DRAWN BY: JA	PROJECT NO.: SC0666-03-01	
DATE		CHECKED BY: SCK	FILE: SC0666-11	
		REVIEWED BY: JLN	DRAWING NO.: 11 OF 11	
		APPROVED BY: RSJ		

O:\CAD\SC0666 - Jeff Valley\plansets_Current Set\SC0666-11.dwg Last Edited by: MHirst on 11/21/2013 11:19 AM

SDGE
Jeff Valley Spillway Repair Project
Certification No. R9-2014-0057

**ATTACHMENT 3
MITIGATION CREDIT DOCUMENT**

1. Wildlands, Cost Proposal to Provide Mitigation Credits for the Jeff Valley Spillway Repair Project, Palomar Mountain, San Diego County, August 13, 2014



August 13, 2014

Via Electronic Mail

Bryan Bennett
Project Manager - Sunrise Powerlink
San Diego Gas & Electric Company
8315 Century Park Court, CP21E
San Diego, CA 92123-1582

RE: Cost Proposal to Provide Mitigation Credits for the Jeff Valley Spillway Repair Project, Palomar Mountain, San Diego County

Dear Mr. Bennett:

Thank you for the opportunity to provide a mitigation solution for the above-referenced project (“**Project**”) in San Diego County. Wildlands is in the process of developing the San Luis Rey Mitigation Bank (“**SLRMB**”) located in San Diego County. Wildlands anticipates approval of the SLRMB by the U.S. Army Corps of Engineers and the California Department of Fish and Wildlife to provide wetland waters of the United States/State credits, waters of the United States/State credits and buffer credits for sale as compensation for the loss of waters of the United States, waters of the State and/or State jurisdictional habitats.

The SLRMB is in the final stages of approval; we anticipate bank approval and the associated initial credit release within the next 30-45 days. Wildlands is pleased to offer you the following cost proposal for credits that will become available as part of the initial credit release:

Bank Name	Credit Type Offered	No. of Credits (Ac.)	Unit Cost	Total
San Luis Rey Mitigation Bank	Waters of the State	0.02	\$550,000	\$11,000

Please note that all credits are sold on a first-come, first-served basis and quoted price listed above is valid for 60 days.

As you may know, the primary benefit of purchasing bank credits from Wildlands is that it terminates your liability as a project proponent of habitat mitigation. By acquiring mitigation from the SLRMB, San Diego Gas & Electric Company would be relieved of environmental engineering expenses, the construction and development costs, and the contingent liabilities of guaranteeing the success of an onsite or offsite mitigation project. Wildlands, as a bank developer, is fully responsible for all financial and performance obligations of mitigation credits purchased from our Mitigation Banks.

Please do not hesitate to contact me if you have any questions. I look forward to the opportunity to work with you.

Very truly yours,



Julie Maddox
Marketing Coordinator

cc: Mr. Andrew Borchert, Borchert Environmental (via Electronic Mail)