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

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

Linda S. Adams
Secretary for Environmental Protection

Arnold Schwarzenegger
Governor

December 17, 2009

Certified Mail No. 7009 1410 0002 2347 6903

Eva Plajzer
Senior Civil Engineer
City of Carlsbad
1635 Faraday Avenue
Carlsbad, CA 92008

In reply, please refer to:	
WDID	9 000001846
CWIQS:	
Reg. Measure	353525
Place	727720
Party	459013
Person	333489

SUBJECT: Action on Request for Clean Water Act Section 401 Water Quality Certification for the El Camino Real Widening Project, Water Quality Certification No. 08C-074

Dear Ms. Plajzer:

Enclosed is the Clean Water Act Section 401 Water Quality Certification for the **El Camino Real Widening 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 6. 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 the City of Carlsbad has accepted and will comply with all conditions of the Certification. Failure to comply with all conditions of this Certification may result in enforcement actions against the City of Carlsbad.

The heading portion of this letter includes a Regional Board code number noted after "In reply, refer to:" In order to assist us in the processing of your correspondence please include these codes number in the heading or subject line portion of all correspondence and reports to the Regional Board pertaining to this matter.

Mr. Plajzer
401 Certification 08C-074

December 17, 2009

If you have any questions regarding this notification, please call Mike Porter directly at (858) 467-2726 or via email at mporter@waterboards.ca.gov.

Respectfully,

DAVID W. GIBSON
Executive Officer

Enclosure:

Clean Water Act Section 401 Water Quality Certification No. 08C-074 for the EL Camino Real Widening Project, with 6 attachments.

CC: Refer to Attachment 2 of Certification 08C-074 for Distribution List.

Linda S. Adams
Acting Secretary for Environmental Protection

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Arnold Schwarzenegger
Governor

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: El Camino Real Widening Project
Water Quality Certification No. 08C-074

APPLICANT: Ms. Eva Plajzer
Senior Civil Engineer
City of Carlsbad
1635 Faraday Avenue
Carlsbad, CA 92008

WDID	9 000001846
Reg. Measure	353525
Place	727720
Party	459013
Person	333489

ACTION:

☐ Order for Low Impact Certification	☐ Order for Denial of Certification
☑ Order for Technically-conditioned Programmatic Certification	☐ Waiver of Waste Discharge Requirements
☑ Enrollment in SWRCB GWDR Order No. 2003-017 DWQ	☐ Enrollment in Isolated Waters Order No. 2004-004 DWQ

PROJECT DESCRIPTION:

The proposed project is the addition of two traffic and two bicycle lanes, sidewalks, and landscaping to the existing four-lane El Camino Real, between Tamarack and Chestnut Avenues.

STANDARD CONDITIONS:

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

1. This certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the California Water Code and section 3867 of Title 23 of the California Code of Regulations (23 CCR).

2. This certification action is not intended and must not be construed to apply to any discharge from any activity involving a hydroelectric facility requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent certification application was filed pursuant to 23 CCR subsection 3855(b) and the application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.

3. The validity of any non-denial certification action (Actions 1 and 2) must be conditioned upon total payment of the full fee required under 23 CCR section 3833, unless otherwise stated in writing by the certifying agency.

ADDITIONAL CONDITIONS:

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

A. GENERAL CONDITIONS:

1. The City of Carlsbad 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 (Regional Board), to support this 401 Water Quality 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 Regional Board and reevaluation for individual Waste Discharge Requirements and/or certification amendment.

2. If project impacts have not been initiated within 5 years of issuance of this Certification, this Certification shall expire and another application for water quality certification will have to be submitted.

3. During construction activities, the City of Carlsbad 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 Carlsbad must permit the Regional 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 Carlsbad must notify the Regional Board within **24 hours** of any unauthorized discharge, including hazardous or toxic materials, to waters of the U.S. and/or State; measures that were implemented to stop and contain the discharge; measures implemented to clean-up the discharge; the volume and type of materials discharged and recovered; and additional best management practice (BMPs) or other measures that will be implemented to prevent future discharges.

6. The City of Carlsbad 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 U.S. and/or State.

7. 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.

8. In response to a suspected violation of any condition of this certification, the Regional Board may require the holder of any permit or license subject to this certification to furnish, under penalty of perjury, any technical or monitoring reports the Regional Board deems appropriate, provided that the burden, including costs, of the reports must bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports.

9. In response to any violation of the conditions of this certification, the Regional Board may add to or modify the conditions of this certification as appropriate to ensure compliance.

10. The City of Carlsbad must submit annual progress reports to the Regional Board, prior to **August 1** of each year following the issuance of this

certification, that reports on the status of compliance with all conditions of this certification until the project is completed.

B. PROJECT CONDITIONS:

1. Prior to the start of the project, and annually thereafter, the City of Carlsbad must educate all personnel on the requirements in this certification, pollution prevention measures, spill response, and Best Management Practices implementation and maintenance.

2. The City of Carlsbad 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 Requirement are accessible at: http://www.waterboards.ca.gov/cwa401/docs/generalorders/go_wdr401regulated_projects.pdf.

3. The City of Carlsbad must notify the Regional Board in writing at least **5 days** prior to the actual commencement of construction.

4. 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.

C. MAINTENANCE BEST MANAGEMENT PRACTICES:

1. Construction Best Management Practices (BMPs) Best Management Practices (BMPs) are described in the Storm Water Pollution Plan for El Camino Real Widening, prepared by Bureau Veritas North America, Inc., dated December 9, 2009. Proposed construction BMPs include:

    a) Silt fencing (sediment control).
    b) Straw wattles (erosion control).
    c) Hydro-mulching (erosion control).
    d) Straw blankets (erosion control).
    e) Gravel bags (sediment control).
    f) Street sweeping.
    g) Storm drain inlet protection.
    h) Preservation of existing vegetation.
    i) Slope drains.
    j) Hydroseeding.

k) Wind erosion control.
l) Vehicle and equipment fueling, cleaning, and maintenance.
m) Illicit connection, Illegal discharge.
n) Water conservation.
o) Dewatering.
p) Paving and grinding operations.
q) Concrete finishing and waste.
r) Waste and materials management.

2. Post-construction BMPs are described in the Water Quality Technical Report for El Camino Real Widening Project, prepared by Bureau Veritas North America, Inc. and dated December 9, 2009. Proposed post-construction BMPs include:

A. Site Design BMPs:

1) Streets and sidewalks will be designed and built to the minimum widths necessary.
2) Impervious surfaces, such as decorative concrete, will not be used within the proposed landscaping designs.
3) Where possible, existing native trees and shrubs will be preserved.
4) Additional native and/or drought-tolerant vegetation will be planted along the proposed landscaped areas.
5) Runoff will be conveyed safely form the top of slopes via drainage ditches and other similar measures.
6) All slopes within the proposed project will be vegetated with native and/or drought tolerant vegetation consistent with the Carlsbad Landscape Manual.
7) Energy dissipators will be installed at the outlets of existing and proposed storm drains that enter unlined channels in order to minimize erosion. Energy dissipators will be installed in to minimize impacts to the receiving waters.

B. Source C ontrol BMPs:

1) Rain shutoff devices, consistent with the Carlsbad Landscape Manual, will be employed to prevent irrigation during precipitation.
2) Irrigation systems will be designed to each landscape areas' specific water requirements consistent with the Carlsbad Landscape Manual.
3) Concrete stamping, porcelain tile, inset permanent marking, or equivalent will be provided at all storm water conveyance system inlets and catch basins within the project area with prohibitive language (e.g., "No Dumping – I Live Downstream).

4) Inlet and Catch Basin Inspection - City of Carlsbad will ensure that all catchment structures are clean and functioning properly and will also check for illegal discharges into catchment structures.
5) Landscape Maintenance - City of Carlsbad will ensure that all landscaped areas are inspected for damage to vegetation, trash/debris accumulation, and standing water. Landscaped areas will be trimmed and all weeds will be removed as necessary.

C. Treatment Control BMPs:

1) Twenty-one (21) Filterra Stormwater Bioretention Filtration Systems storm drain inlet filters.

D. In addition to the BMPs described in the Water Quality Technical Report for El Camino Real Widening Project, prepared by Bureau Veritas North America, Inc. and dated December 9, 2009, the post-construction BMPs must be sized to comply with the following numeric sizing criteria:

a. Volume
Volume-based BMPs must be designed to mitigate (infiltrate, filter, or treat) either:
i. The volume of runoff produced from a 24-hour 85th percentile storm event, as determined from the local historical rainfall record (0.6 inch approximate average for the San Diego County area); or
ii. The volume of runoff produced by the 85th percentile 24-hour rainfall event, determined as the maximized capture storm water volume for the area, from the formula recommended in Urban Runoff Quality Management, WEF Manual of Practice No. 23/ASCE Manual of Practice No. 87, (1998); or
iii. The volume of annual runoff based on unit basin storage volume, to achieve 90% or more volume treatment by the method recommended in California Stormwater Best Management Practices Handbook – Industrial/Commercial, (1993); or
iv. The volume of runoff, as determined from the local historical rainfall record, that achieves approximately the same reduction in pollutant loads and flows as achieved by mitigation of the 85th percentile 24-hour runoff event; or

b. Flow
Flow-based BMPs must be designed to mitigate (infiltrate, filter, or treat) either:
i. The maximum flow rate of runoff produced from a rainfall intensity of 0.2 inch of rainfall per hour; or

ii. The maximum flow rate of runoff produced by the 85th percentile hourly rainfall intensity, as determined from the local historical rainfall record, multiplied by a factor of two; or
iii. The maximum flow rate of runoff, as determined from the local historical rainfall record, that achieves approximately 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.

D. MITIGATION

1. Permanent impacts must not exceed 0.03-acre (339-linear feet) of unvegetated Waters of the U.S. and State.

2. Proposed mitigation is described within the Additional Project Information for the El Camino Real Widening Project, City of Carlsbad, California, SAA #1600-2008-0365-R5 letter, dated December 18, 2008, prepared by Dudek & Associates, and an email from Dudek & Associates dated December 1, 2009. Proposed mitigation will be conducted through the purchase of mitigation credits from the North County Habitat Bank that result in:

   a) Creation/Restoration of 0.03-acre of riparia (Southern willow scrub) mixed with freshwater marsh (i.e., 0.03-acre USACE wetland creation/restoration credits).
   b) Creation/Restoration of 0.04-acre riparia (i.e., 0.04-acre of wetland CDFG creation/restoration credits).
   c) Enhancement of 0.03-acre riparia (i.e., 0.03-acre CDFG riparian enhancement credits).

3. 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.

4. Evidence of the purchase of mitigation credits must be submitted within **30 days** of issuance of the Water Quality Certification 08C-074.

E. P RE-PROJECT AND POST-PROJECT PHOTO DOCUMENTATION PROCEDURE:

The City of Carlsbad must conduct photo documentation of project areas before and after construction activities. Photo-documentation must be modeled after the State Water Resources Control Board Standard Operating Procedure 4.2.1.4: Stream Photo Documentation Procedure, included as Attachment 6. In addition, photo documentation must include Global Positioning System (GPS) coordinates for each of the photo points referenced. The City of Carlsbad must submit this information in a photo documentation report to the Regional Board no later than **30 days** after project completion at each site. The report must include a compact disc that contains digital files of all the photos (jpeg file type or similar).

F. GEOGRAPHIC INFORMATION SYSTEM REPORTING:

The City of Carlsbad must submit Geographic Information System (GIS) shape files of the impact and mitigation areas within **30 days** of project impacts. 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.

G. REPORTING:

1. All information requested in this Certification is pursuant to California Water Code (CWC) section 13267. Civil liability may be administratively imposed by the Regional Board for failure to furnish requested information pursuant to CWC section 13268.

2. All reports and information submitted to the Regional 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. All applications, reports, or information submitted to the Regional 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.

4. A duly authorized representative of a person designated in Items 3.a. through 3.c. above may sign documents if:

   a. The authorization is made in writing by a person described in Items 3.a. through 3.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 Regional Board Executive Officer.

5. All applications, reports, or information submitted to the Regional 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."

6. The City of Carlsbad must submit reports required under this certification, or other information required by the Regional Board, to:

   David W. Gibson
   Executive Officer
   California Regional Water Quality Control Board
   San Diego Region
   Attn: 401 Certification No. 08C-074
   9174 Sky Park Court, Suite 100
   San Diego, California 92123

7. Required Reports: The following list summarizes the reports, including spill notifications and emergency situations, required per the conditions of this Certification to be submitted to the Regional Board.

Report Topic	Certification Condition	Due Date(s)
Unauthorized Discharges	A.5. Report within 24 hours.	Within 24 hours.
Annual Progress Reporting	A.10. Submit annual progress reports.	Annually before August 1st.
Impacts to Waters	B.3. Notify before impacting Waters of U.S. and State.	5 Days prior to impacts.
Mitigation	D.4. Provide proof of purchase of mitigation credits.	Within 30 days of issuance of Certification.
Photo Documentation	E. Provide photo documentation of project areas.	Within 30 days of project completion at each site.
GIS shapefiles	F. Submit GIS shapefiles of impacts and mitigation areas.	30 Days after project impacts.

PUBLIC NOTIFICATION OF PROJECT APPLICATION:

On October 10, 2008 receipt of the project application was posted on the Regional Board web site to serve as appropriate notification to the public.

REGIONAL WATER QUALITY CONTROL BOARD CONTACT PERSON:

Mike Porter
California Regional Water Quality Control Board, San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123
858-467-2726; mporter@waterboards.ca.gov

WATER QUALITY CERTIFICATION:

I hereby certify that the proposed discharge from the **El Camino Real Widening Project** (Certification No. 08C-074) 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 Regional 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 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 Regional Water Quality Control Board's Water Quality Control Plan (Basin Plan).

David W. C.

12-17-09

DAVID W. GIBSON
Executive Officer
Regional Water Quality Control Board

Date

Attachments:

1. Project Information
2. Distribution List
3. Location Map
4. Site Maps
5. Mitigation Map
6. Stream Photodocumentation Procedure

ATTACHMENT 1
PROJECT INFORMATION

Applicant:	Ms. Eva Plajzer Senior Civil Engineer Engineering Division City of Carlsbad 1635 Faraday Avenue Carlsbad, CA 92008 Telephone: 760-602-2728 Facsimile: 760-602-8562 Email: Eplaj@ci.carlsbad.ca.us
Applicant Representatives:	Mr. Kamarul Muri Biologist Dudek & Associates 605 Third Street Encinitas, CA 92024 Telephone: 760-479-4292 Facsimile: 760-632-0164 Email: kmuri@dudek.com
Project Name:	El Camino Real Widening Project, Certification 08C-074
Project Location:	The project is located on El Camino Real, between Tamarack and Chestnut Avenues, City of Carlsbad, north-coastal San Diego County.
Type of Project:	Road improvement.
Project Description:	The proposed project is the addition of two traffic and two bicycle lanes, sidewalks, and landscaping to the existing four-lane El Camino Real, between Tamarack and Chestnut Avenues.
Project Purpose:	Increase traffic capacity and safety.

Federal Agency/Permit:	U.S. Army Corps of Engineers §404, Individual Permit, Ms. Crystal Doyle
Other Required Regulatory Approvals:	California Department of Fish and Game, §1602 Streambed Alteration Agreement, Ms. Tamara Spear.
California Environmental Quality Act (CEQA) Compliance:	Final Initial Study and Mitigated Negative Declaration, El Camino Real Widening Project, Tamarack Avenue to Chestnut Avenue, December 2008, City of Carlsbad, Case No. CDP-07-22.
Receiving Waters:	Two unnamed intermittent streams tributary to Agua Hedionda Creek, Carlsbad hydrologic unit, Agua Hedionda hydrologic area, Los Monos hydrologic subarea (904.10).
Affected Waters of the United States and State:	Temporary:

Wetland	None
Streambed, unvegetated	None
Lake	None
Ocean	None

Permanent:

Wetland	None
Streambed, unvegetated	0.03-acre, 339-linear feet
Lake	None
Ocean	None

Dredge Volume:	None
Related Projects Implemented/to be Implemented by the Applicant(s):	Three City of Carlsbad flood control/drainage projects in project area.
Compensatory Mitigation:	Proposed mitigation is described within the Additional Project Information for the El Camino Real Widening Project, City of Carlsbad, California, SAA #1600-2008-0365-R5 letter, dated

December 18, 2008, prepared by Dudek & Associates, and an email from Dudek & Associates dated December 1, 2009. Proposed mitigation is the purchase of mitigation credits from the North County Mitigation Bank consisting of:

a) Creation/Restoration of 0.03-acre of riparia (Southern willow scrub) mixed with freshwater marsh (i.e., 0.03-acre USACE wetland creation/restoration credits).
b) Creation/Restoration of 0.04-acre riparia (i.e., 0.04-acre of wetland CDFG creation/restoration credits).
c) Enhancement of 0.03-acre riparia (i.e., 0.03-acre CDFG riparian enhancement credits).

Best Management Practices:

Construction Best Management Practices (BMPs) are described in the Storm Water Pollution Plan for El Camino Real Widening, prepared by Bureau Veritas North America, Inc., dated December 9, 2009. Proposed construction BMPs include:

a) Silt fencing (sediment control).
b) Straw wattles (erosion control).
c) Hydro-mulching (erosion control).
d) Straw blankets (erosion control).
e) Gravel bags (sediment control).
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m) Illicit connection, Illegal discharge.
n) Water conservation.
o) Dewatering.
p) Paving and grinding operations.
q) Concrete finishing and waste.
r) Waste and materials management.

Post-construction BMPs are described in the Water Quality Technical Report for El Camino Real Widening Project, prepared by Bureau Veritas North America, Inc. and dated December 9, 2009. Proposed post-construction BMPs include:

Site Design BMPs:

a) Streets and sidewalks will be designed and built to the minimum widths necessary.
b) Impervious surfaces, such as decorative concrete, will not be used within the proposed landscaping designs.
c) Where possible, existing native trees and shrubs will be preserved.
d) Additional native and/or drought-tolerant vegetation will be planted along the proposed landscaped areas.
e) Runoff will be conveyed safely form the top of slopes via drainage ditches and other similar measures.
f) All slopes within the proposed project will be vegetated with native and/or drought tolerant vegetation consistent with the Carlsbad Landscape Manual.
g) Energy dissipators will be installed at the outlets of existing and proposed storm drains that enter unlined channels in order to minimize erosion. Energy dissipators will be installed in such as to minimize impacts to the receiving waters.

Source Control BMPs:

a) Rain shutoff devices, consistent with the Carlsbad Landscape Manual, will be employed to prevent irrigation during precipitation.
b) Irrigation systems will be designed to each landscape areas' specific water requirements consistent with the Carlsbad Landscape Manual.
c) Concrete stamping, porcelain tile, inset permanent marking, or equivalent will be provided at all storm water conveyance system inlets and catch basins within the project area with prohibitive language (e.g., "No Dumping – I Live Downstream).
d) Inlet and Catch Basin Inspection - City of Carlsbad will ensure that all catchment structures are clean and functioning properly and will also check for illegal discharges into catchment structures.
e) Landscape Maintenance - City of Carlsbad will ensure that all landscaped areas are inspected for damage to vegetation, trash/debris accumulation, and standing water. Landscaped areas will be trimmed and all weeds will be removed as necessary.

	Treatment Control BMPs: Twenty-one (21) Filterra Stormwater Bioretention Filtration Systems storm drain inlet filters.
Public Notice:	October 10, 2008 – Regional Board website
Fees:	Total Due: $2,259.50 Total Paid: $2,259.50 (Check No. 181037)
CIWQS:	Regulatory Measure: 353525 Place: 727720 Party: 459013

ATTACHMENT 2
DISTRIBUTION LIST

Ms. Crystal Doyle
U.S. Army Corps of Engineers
San Diego Field Office
6010 Hidden Valley Road
Suite 105
Carlsbad, CA 92011

Ms. Tamara Spear
California Department of Fish and Game
South Coast Region
Habitat Conservation Planning – North
4949 Viewridge Avenue
San Diego, CA 92123

Mr. Eric Raffini
Wetlands Regulatory Office
U.S. Environmental Protection Agency, Region 9
75 Hawthorne Street
San Francisco, CA 94105
R9-WTR8-Mailbox@epa.gov

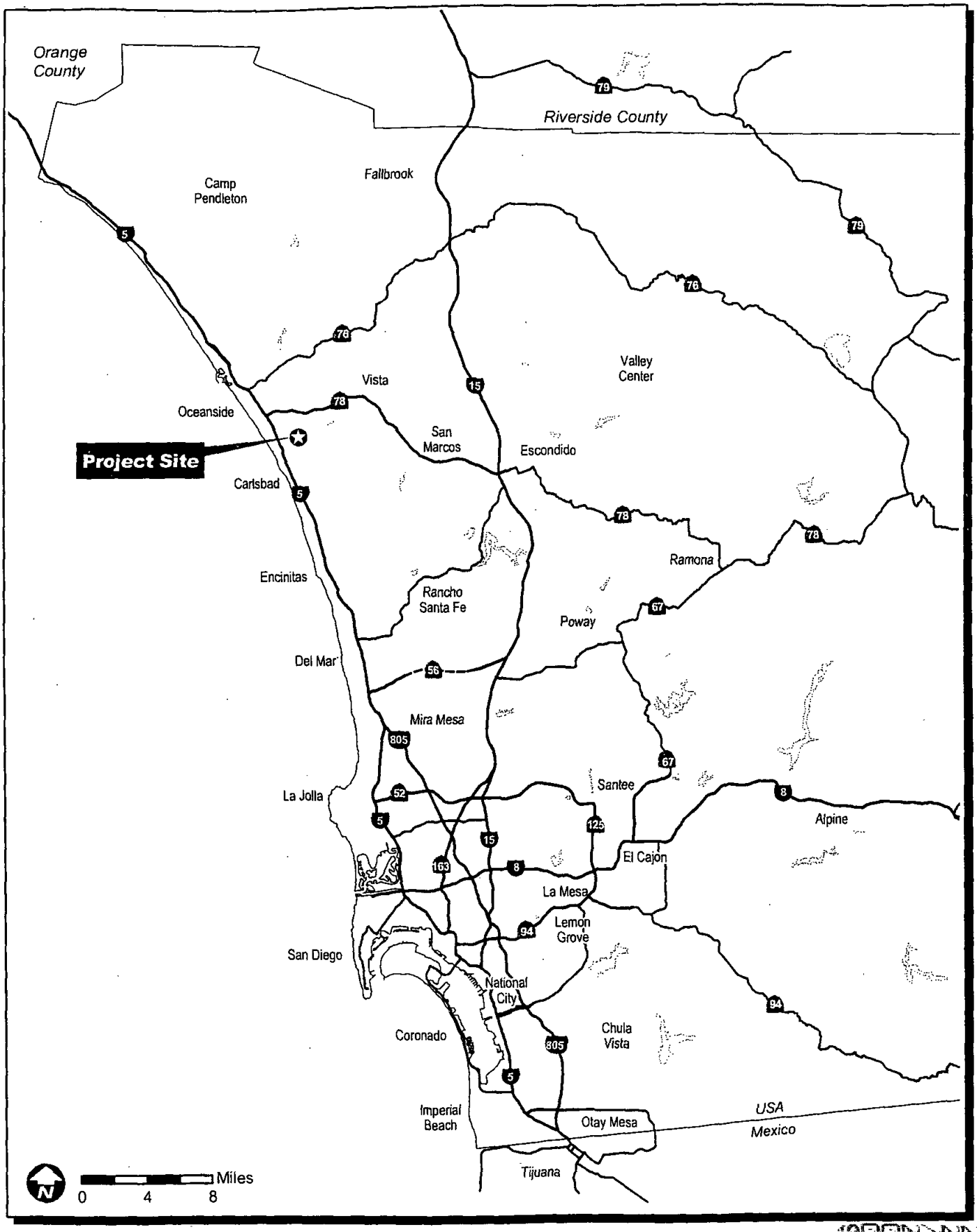
State Water Resources Control Board
Division of Water Quality
401 Water Quality Certification and Wetlands Unit
P.O. Box 100
Sacramento, CA 95812-0100
Stateboard401@waterboards.ca.gov

U.S. Department of the Interior
Fish and Wildlife Service
6010 Hidden Valley Road
Carlsbad, CA 92011

Mr. Kamarul Muri
Biologist
Dudek & Associates
605 Third Street
Encinitas, CA 92024

ATTACHMENT 3

Location Map



El Camino Real Widening Project - Biological Resources Report

FIGURE 1

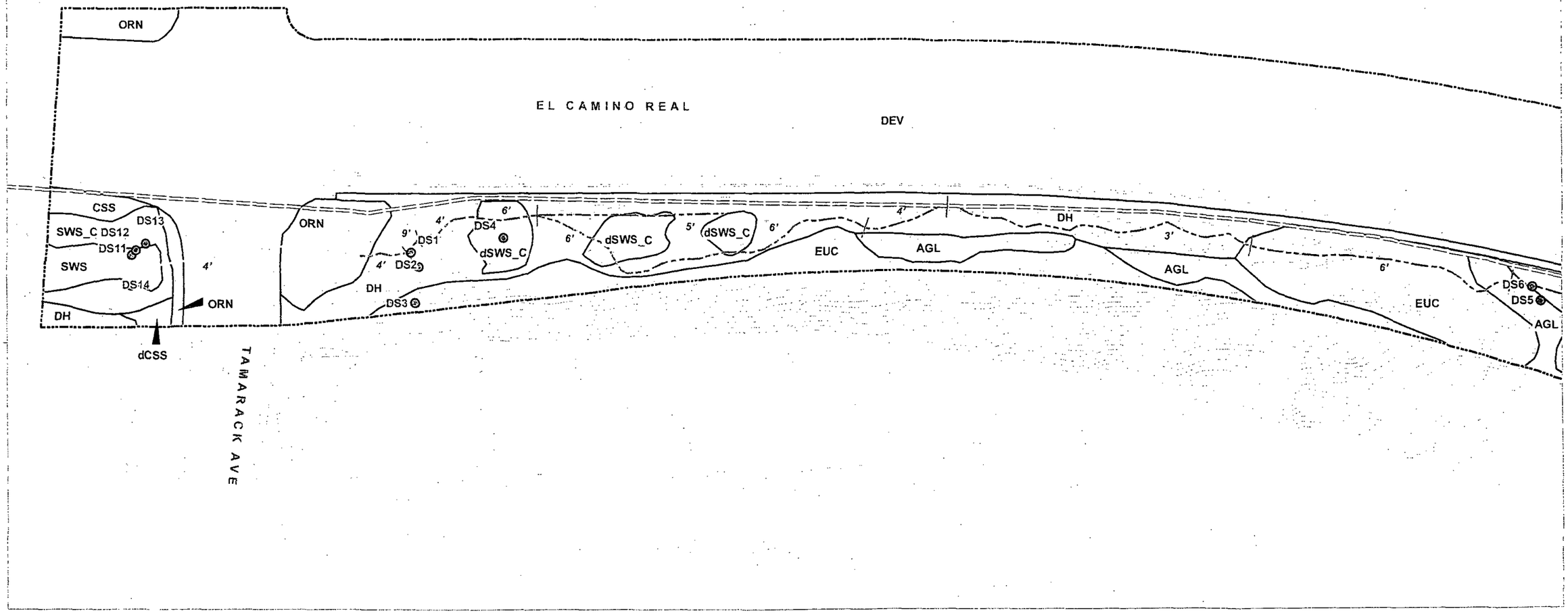
Regional Map

ATTACHMENT 4

Site Maps

ATTACHMENT 5

MITIGATION MAPS



TOPO SOURCE: Berryman & Henigar, December 2005

Study Area

Coastal Zone Boundary

Data Station

Feet
0 40 80

VEGETATION TYPES/LANDCOVERS:

- AGL: Annual Grassland
- CSS: Coastal Sage Scrub
- dCSS: disturbed Coastal Sage Scrub
- DEV: Developed
- DH: Disturbed Habitat
- EUC: Eucalyptus Woodland
- NGL: Native Grassland
- dNGL: disturbed Native Grassland
- ORN: Ornamental
- SWS: Southern Willow Scrub
- SWS_C: Southern Willow Scrub (CDFG only)
- dSWS_C: disturbed Southern Willow Scrub (CDFG only)

Jurisdictional Waters of the U.S./State

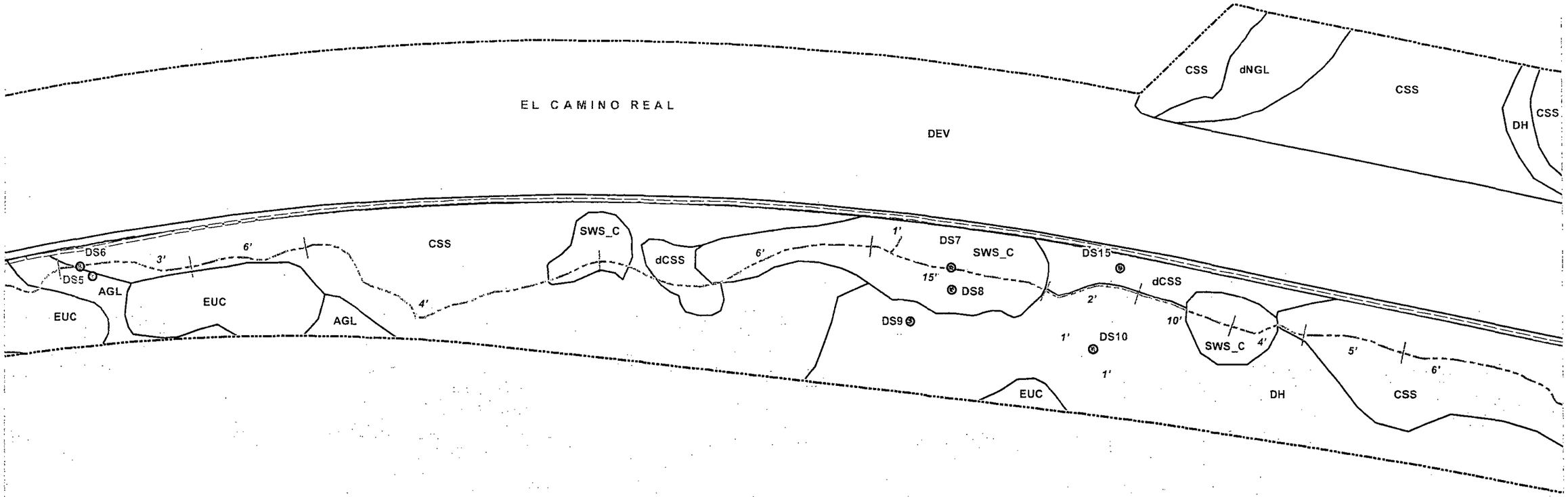
- Ephemeral Waters
- *Ephemeral Waters (concrete-lined)*
- Intermittent Waters
- Intermittent Waters (concrete-lined)

Note: Number indicates width of channel segment between marks.

El Camino Real Widening Project - Biological Resources Report

Biological Resources Map

FIGURE 3A



TOPO SOURCE: Berryman & Henigar, December 2005

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- AGL: Annual Grassland
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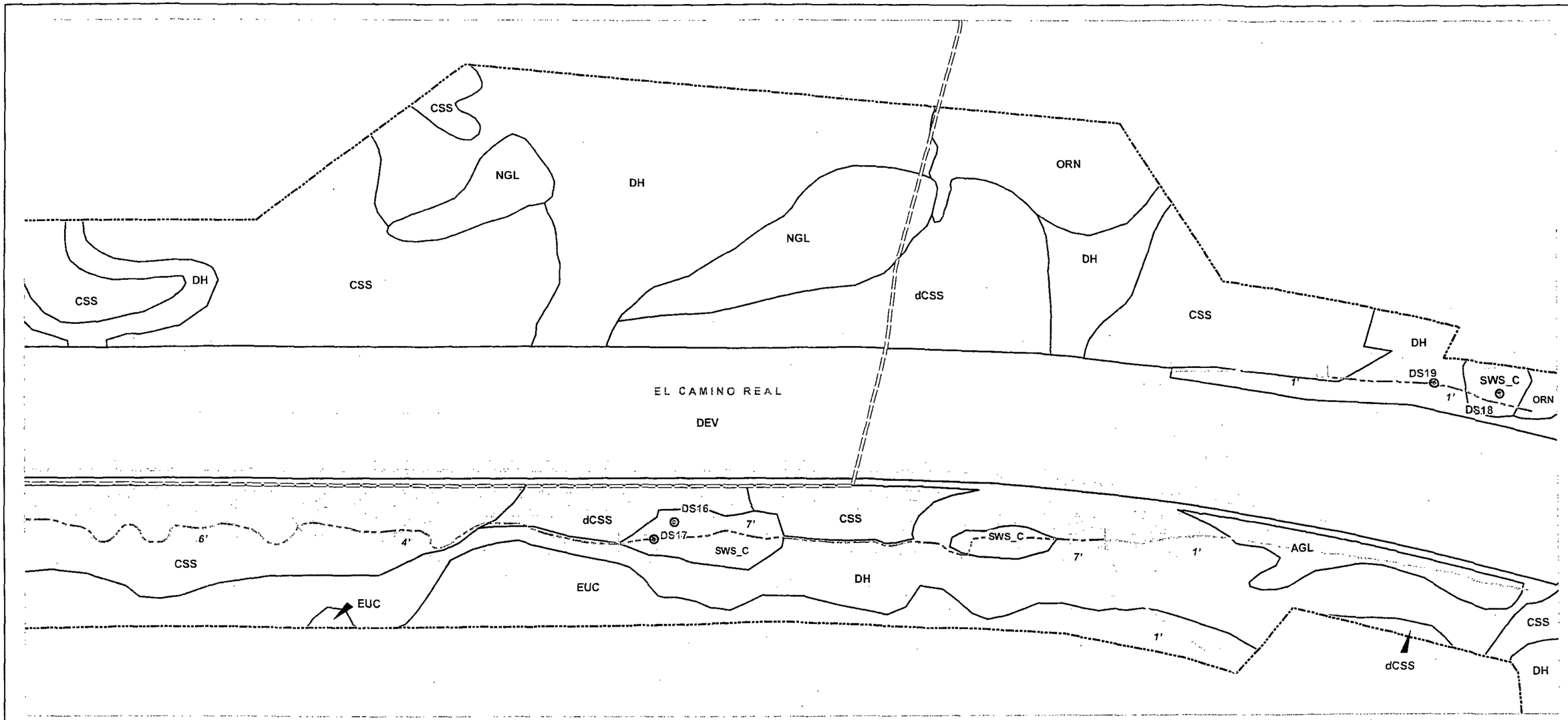
- dSWS_C: disturbed Southern Willow Scrub (CDFG only)

Jurisdictional Waters of the U.S./State

- Ephemeral Waters
- Ephemeral Waters (concrete-lined)
- Intermittent Waters
- Intermittent Waters (concrete-lined)

Note: Number indicates width of channel segment between marks.



TOPO SOURCE: Berryman & Henigar, December 2005

Study Area
Coastal Zone Boundary
Data Station

Feet
0 40 80

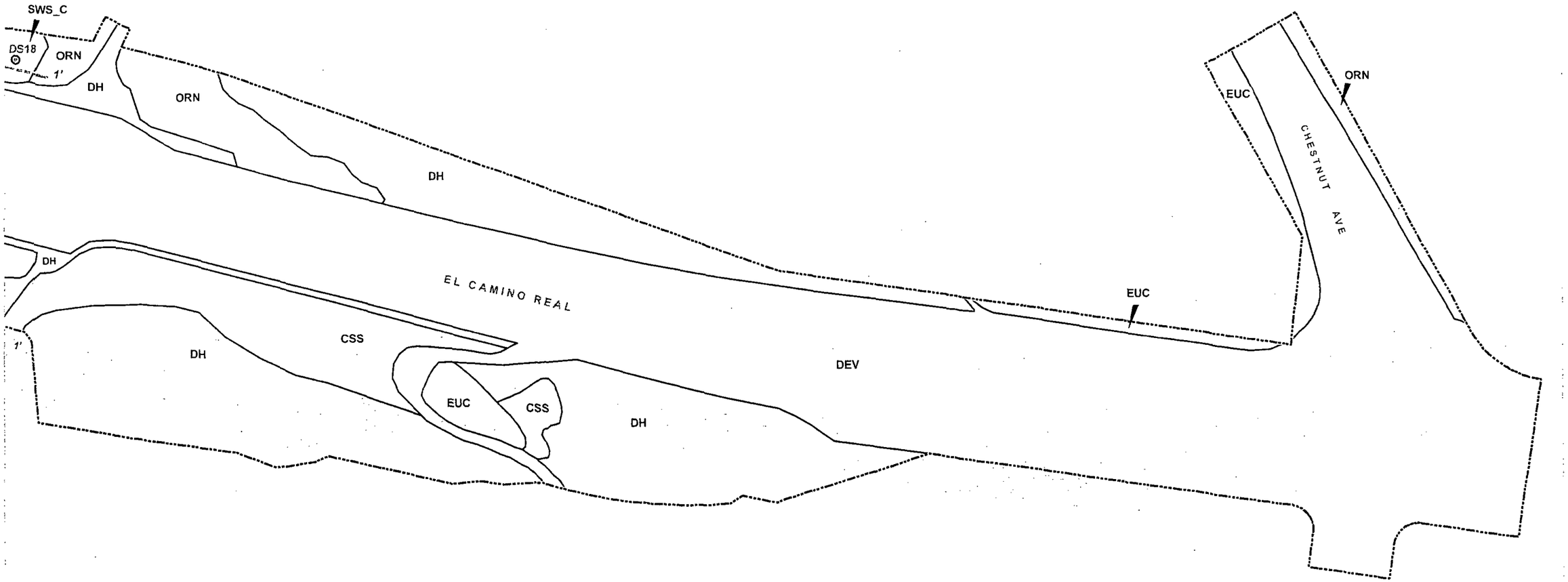
VEGETATION TYPES/LANDCOVERS:

- AGL: Annual Grassland
- CSS: Coastal Sage Scrub
- dCSS: disturbed Coastal Sage Scrub
- DEV: Developed
- DH: Disturbed Habitat
- EUC: Eucalyptus Woodland
- NGL: Native Grassland
- dNGL: disturbed Native Grassland
- ORN: Ornamental
- SWS: Southern Willow Scrub
- SWS_C: Southern Willow Scrub (CDFG only)
- dSWS_C: disturbed Southern Willow Scrub (CDFG only)

Jurisdictional Waters of the U.S./State

- Ephemeral Waters
- Ephemeral Waters (concrete-lined)
- Intermittent Waters
- Intermittent Waters (concrete-lined)

Note: Number indicates width of channel segment between marks.



TOPO SOURCE: Berryman & Henigar, December 2005

Study Area

Data Station

Feet
0 40 80

VEGETATION TYPES/LANDCOVERS:

- AGL: Annual Grassland
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- SWS: Southern Willow Scrub
- SWS_C: Southern Willow Scrub (CDFG only)
- dSWS_C: disturbed Southern Willow Scrub (CDFG only)

Jurisdictional Waters of the U.S./State

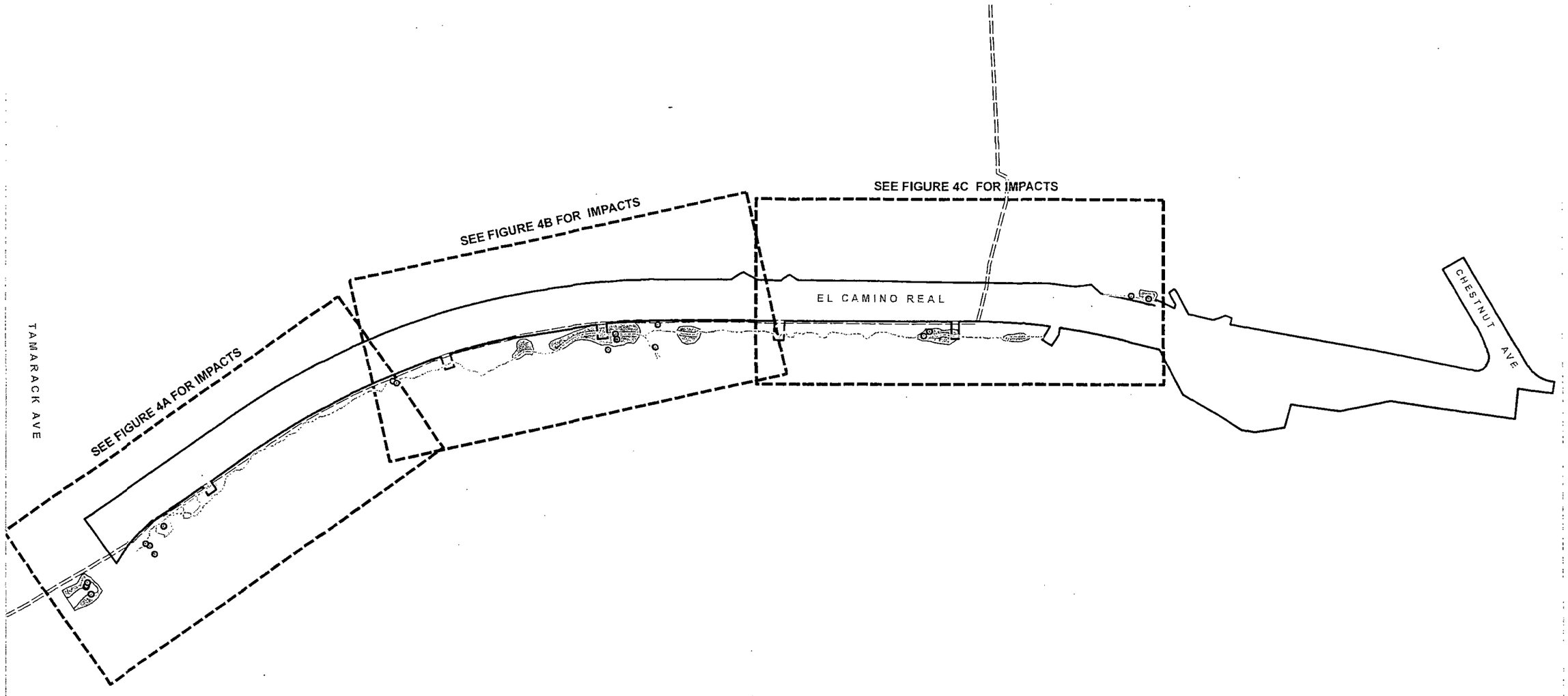
- Ephemeral Waters
- Ephemeral Waters (concrete-lined)
- Intermittent Waters
- Intermittent Waters (concrete-lined)

Note: Number indicates width of channel segment between marks.

El Camino Real Widening Project - Biological Resources Report

Biological Resources Map

FIGURE 3D



BASE SOURCE: Berryman & Henigar, December 2005

El Camino Real APE Limits
Coastal Zone Boundary
Data Station

Jurisdictional Delineation

Southern Willow Scrub
Southern Willow Scrub (CDFG only)
disturbed Southern Willow Scrub (CDFG only)

Jurisdictional Waters of the U.S./State

Ephemeral Waters
Intermittent Waters

0 150 300 Feet

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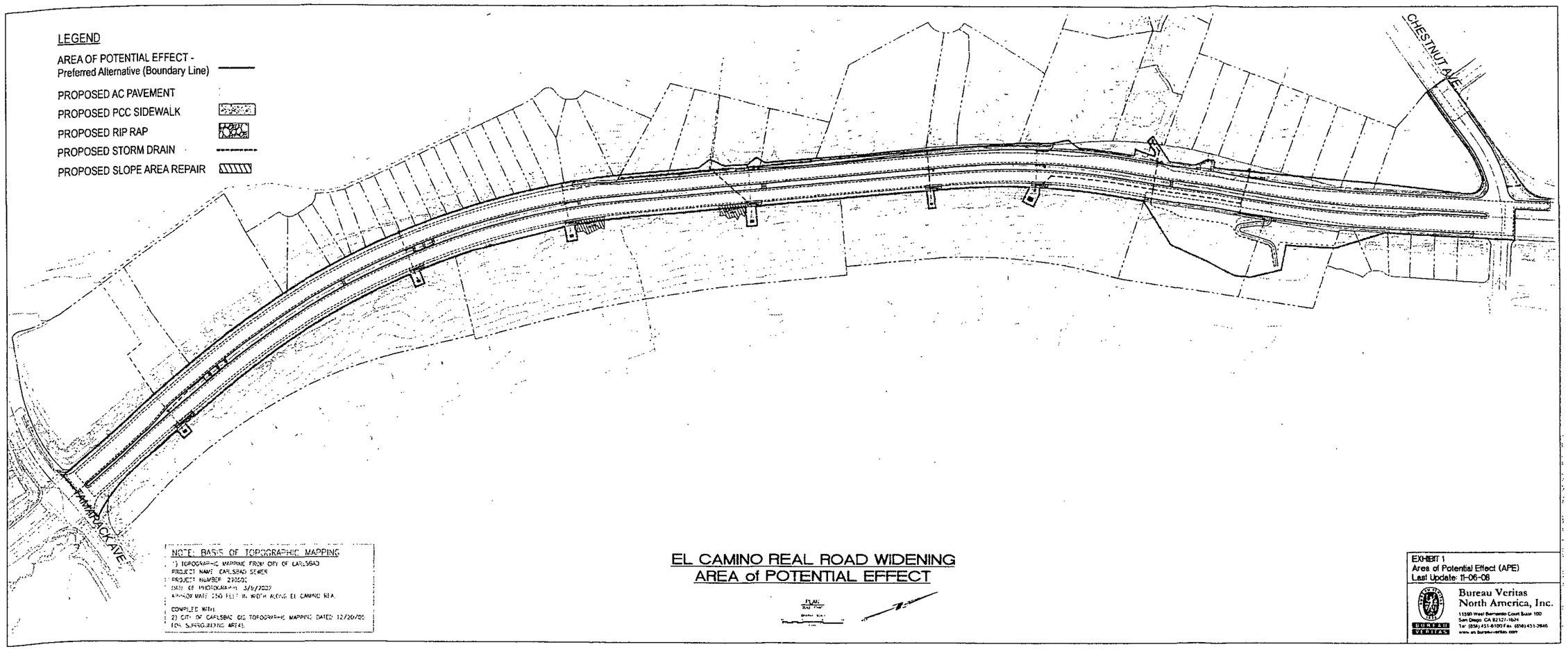
El Camino Real Widening Project - Joint Permit Application

Jurisdictional Delineation Map

FIGURE 3



EL CAMINO REAL ROAD WIDENING
AREA of POTENTIAL EFFECT

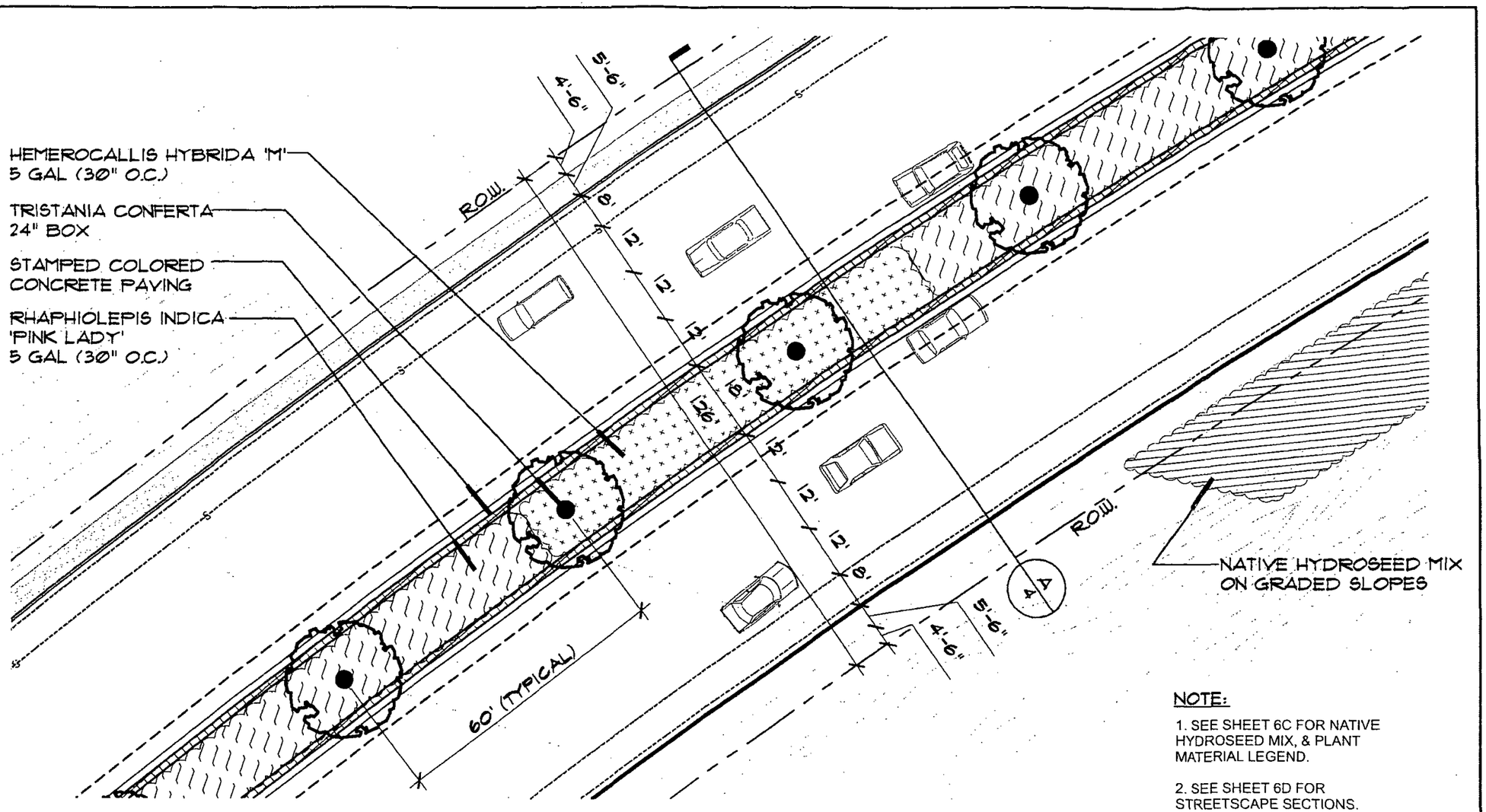
EXHIBIT 1
Area of Potential Effect (APE)
Last Update: 11-06-08

Bureau Veritas
North America, Inc.
11555 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-7846
www.us.bureauveritas.com

El Camino Real Widening Project - MND

APE Site Plan

FIGURE 4



NOTE:

1. SEE SHEET 6C FOR NATIVE HYDROSEED MIX, & PLANT MATERIAL LEGEND.

2. SEE SHEET 6D FOR STREETSCAPE SECTIONS.

SECTION A - EL CAMINO REAL, TYPICAL

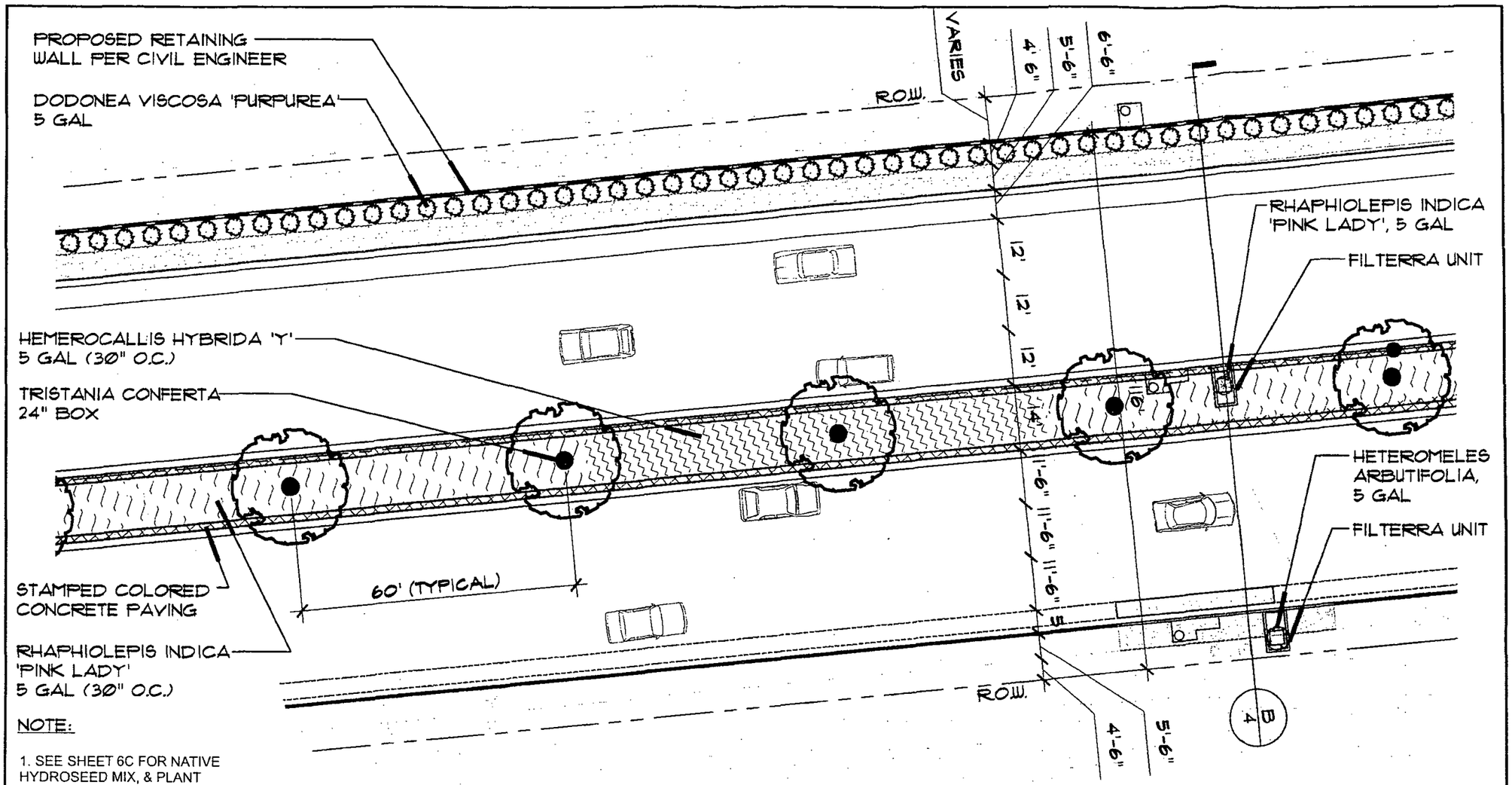
KTUA
Planning + Landscape Architecture
3915 Normal Street
San Diego, CA 92103
619.894.4477
fax • 619.894.9965

REVISED 9/25/08

NORTH

0 10 20 40 60
SCALE: 1"= 20'

EL CAMINO REAL ROAD WIDENING
LANDSCAPE CONCEPT PLAN
TYPICAL R.O.W. PLANTING (200' SECTION)



NOTE:

1. SEE SHEET 6C FOR NATIVE HYDROSEED MIX, & PLANT MATERIAL LEGEND.

2. SEE SHEET 6D FOR STREETSCAPE SECTIONS.

SECTION B - EL CAMINO REAL AT RETAINING WALL

KTUA
Planning + Landscape Architecture
3916 Normal Street
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619.594.4477
fax 619.594.9955

REVISED 9/25/08

NORTH

0 10 20 40 60
SCALE: 1"= 20'

EL CAMINO REAL ROAD WIDENING
LANDSCAPE CONCEPT PLAN
TYPICAL R.O.W. PLANTING (200' SECTION)

PLANT MATERIAL LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	MIN. SIZE	HEIGHT	SPRD.	REMARKS
TREES						
TRI CON	TRISTANIA CONFERTA	BRISBANE BOX	24" BOX	10'-12'	5'-6'	STRAIGHT TRUNK, FULL HEAD, GOOD COLOR, SUBMIT PHOTO, 60' O.C. TYPICAL
SHRUBS						
HEM HYB 'Y'	HEMEROCALLIS HYBRIDA	YELLOW DAY LILY	5 GAL	10"-12"	10"-12"	FULL CLUMPS, YELLOW FLOWERS, 30" O.C.
HEM HYB 'M'	HEMEROCALLIS HYBRIDA	MAROON DAY LILY	5 GAL	10"-12"	10"-12"	FULL CLUMPS, MAROON FLOWERS, 30" O.C.
HET ARB	HETEROMELES ARBUTIFOLIA	TOYON	5 GAL	15"-18"	12"-15"	FULL AND BUSHY TO GROUND, GOOD COLOR
RHA IND 'P.L.'	RHAPHIOLEPIS INDICA 'PINK LADY'	'PINK LADY' HAWTHORN	5 GAL	12"	15"	FULL AND BUSHY TO GROUND, GOOD COLOR 30" O.C.
DOD VIS 'P'	DODONEA VISCOSA 'PURPUREA'	HOPSEED BUSH	5 GAL	10"-12"	10"-12"	FULL AND BUSHY TO GROUND, GOOD COLOR

*CONTRACTOR TO SUBMIT PHOTOS OF ALL TREES TO LANDSCAPE ARCHITECT FOR APPROVAL. THE LANDSCAPE ARCHITECT SHALL NOTIFY THE CITY LANDSCAPE ARCHITECT IN WRITING OF PLANT MATERIAL ACCEPTANCE PRIOR TO DELIVERY AND PLANTING.

NATIVE HYDROSEED MIX:

BOTANICAL NAME:	COMMON NAME:
ARTEMISIA CALIFORNICA	CALIFORNIA SAGEBRUSH
ENCELIA CALIFORNICA	BUSH SUNFLOWER
ERIOPHYLLUM CONFERTIFLORUM	GOLDEN YARROW
ERIOGONUM FASCICULATUM	CALIFORNIA BUCKWHEAT
ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY
LOTUS SCOPARIUS	DEERWEED
NASSELLA PULCHRA	PURPLE NEEDLE GRASS
PLANTAGO INSULARIS	NO COMMON NAME
SALVIA MELLIFERA	BLACK SAGE
VIGIEIRA LACINIATA	SAN DIEGO SUNFLOWER

KTUA
3916 Normal Street
San Diego, CA 92103
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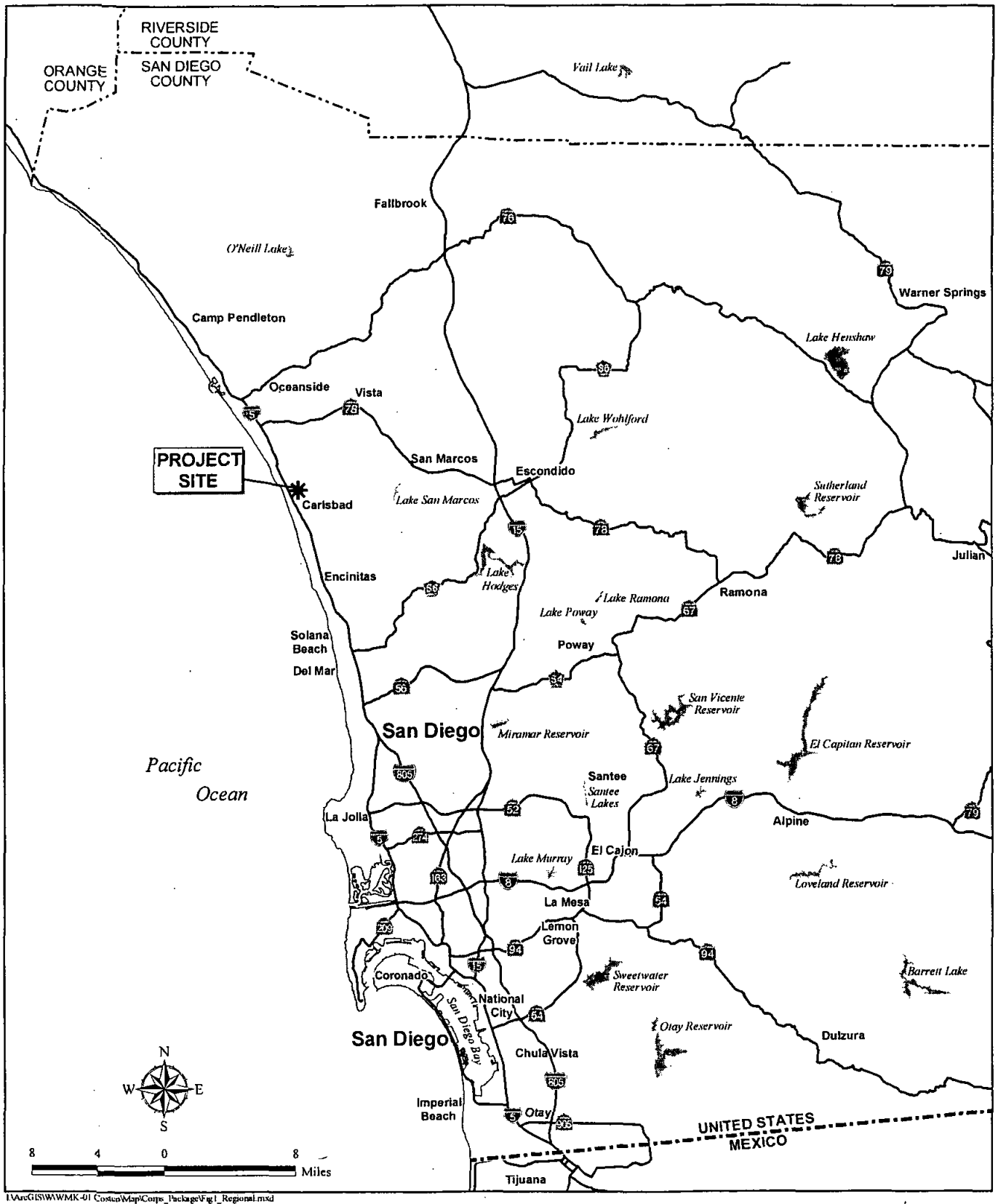
fax 619.294.9966
Planning + Landscape Architecture

REVISED 9/25/08

EL CAMINO REAL ROAD WIDENING
LANDSCAPE CONCEPT PLAN
TYPICAL R.O.W. PLANTING (200' SECTION)



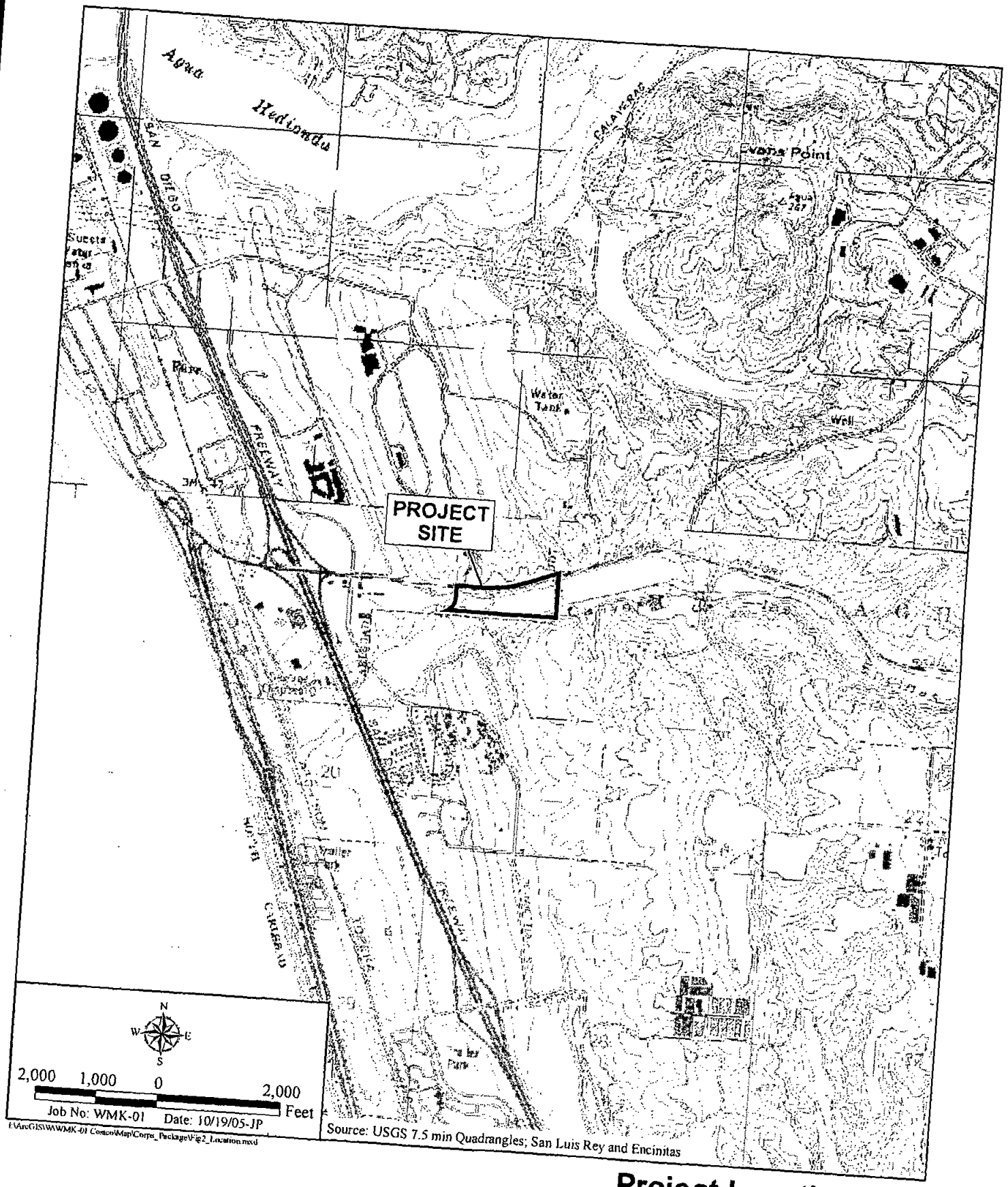
I:\ArcGIS\W\WMK-01 Costco\Map\Corps_Package\Fig1_Regional.mxd

Regional Location Map

NORTH COUNTY HABITAT BANK

HELIX

Figure 1



Project Location Map

NORTH COUNTY HABITAT BANK

HELIX

Figure 2

ATTACHMENT 6

STREAM PHOTO DOCUMENTATION PROCEDURE

Standard Operating Procedure (SOP) 4.2.1.4

Stream Photo Documentation Procedure

(CARCD 2001, Written by TAC Visual Assessments work group)

Introduction:

Photographs provide a qualitative, and potentially semi-quantitative, record of conditions in a watershed or on a water body. Photographs can be used to document general conditions on a reach of a stream during a stream walk, pollution events or other impacts, assess resource conditions over time, or can be used to document temporal progress for restoration efforts or other projects designed to benefit water quality. Photographic technology is available to anyone and it does not require a large degree of training or expensive equipment. Photos can be used in reports, presentations, or uploaded onto a computer website or GIS program. This approach is useful in providing a visual portrait of water resources to those who may never have the opportunity to actually visit a monitoring site.

Equipment:

Use the same camera to the extent possible for each photo throughout the duration of the project. Either 35 mm color or digital color cameras are recommended, accompanied by a telephoto lens. If you must change cameras during the program, replace the original camera with a similar one comparable in terms of media (digital vs. 35 mm) and other focal length characteristics. A complete equipment list is suggested as follows:

Required:

- Camera and backup camera
- Folder with copies of previous photos (do not carry original photos in the field)
- Topographic and/or road map
- Aerial photos if available
- Compass
- Timepiece
- Extra film or digital disk capacity (whichever is applicable)
- Extra batteries for camera (if applicable)
- Photo-log data sheets or, alternatively, a bound notebook dedicated to the project
- Yellow photo sign form and black marker, or, alternatively, a small black board and chalk

Optional:

- GPS unit
- Stadia rod (for scale on landscape shots)
- Ruler (for scale on close up views of streams and vegetation)
- Steel fence posts for dedicating fixed photo points in the absence of available fixed landmarks

- Poisonous plants (e.g.: poison oak)
- Dangerous insects and animals (e.g.: bees, rattlesnakes, range animals such as cattle, etc.)
- Harmful or hazardous trash (e.g.: broken glass, hypodermic needles, human feces)

We recommend that the volunteer coordinator or leader discuss the potential hazards with all volunteers prior to any fieldwork.

General Instructions:

From the inception of any photo documentation project until it is completed, always take each photo from the same position (photo point), and at the same bearing and vertical angle at that photo point. Photo point positions should be thoroughly documented, including photographs taken of the photo point. Refer to copies of previous photos when arriving at the photo point. Try to maintain a level (horizontal) camera view unless the terrain is sloped. (If the photo can not be horizontal due to the slope, then record the angle for that photo.) When photo points are first being selected, consider the type of project (meadow or stream restoration, vegetation management for fire control, ambient or event monitoring as part of a stream walk, etc.) and refer to the guidance listed on *Suggestions for Photo Points by Type of Project.*

When taking photographs, try to include landscape features that are unlikely to change over several years (buildings, other structures, and landscape features such as peaks, rock outcrops, large trees, etc.) so that repeat photos will be easy to position. Lighting is, of course, a key ingredient so give consideration to the angle of light, cloud cover, background, shadows, and contrasts. Close view photographs taken from the north (i.e., facing south) will minimize shadows. Medium and long view photos are best shot with the sun at the photographer's back. Some artistic expression is encouraged as some photos may be used on websites and in slide shows (early morning and late evening shots may be useful for this purpose). Seasonal changes can be used to advantage as foliage, stream flow, cloud cover, and site access fluctuate. It is often important to include a ruler, stadia rod, person, farm animal, or automobile in photos to convey the scale of the image. Of particular concern is the angle from which the photo is taken. Oftentimes an overhead or elevated shot from a bridge, cliff, peak, tree, etc. will be instrumental in conveying the full dimensions of the project. Of most importance overall, however, is being aware of the goal(s) of the project and capturing images that clearly demonstrate progress towards achieving those goal(s). Again, reference to *Suggestions for Photo Points by Type of Project* may be helpful.

If possible, try to include a black board or yellow photo sign in the view, marked at a minimum with the location, subject, time and date of the photograph. A blank photo sign form is included in this document.

2. Select an existing structure or landmark (mailbox, telephone pole, benchmark, large rock, etc.), identify its latitude and longitude, and choose (and record for future use) the permanent position of the photographer relative to that landmark. Alternatively, choose the procedure described in *Monitoring California's Annual Rangeland Vegetation* (UC/DANR Leaflet 21486, Dec. 1990). This procedure involves placing a permanently marked steel fence post to establish the position of the photographer.

3. For restoration, fuel reduction, and BMP projects, photograph the photo-points and carry copies of those photographs on subsequent field visits.

Determining the Compass Bearing:

1. Select and record the permanent magnetic bearing of the photo center view. You can also record the true compass bearing (corrected for declination) but do not substitute this for the magnetic bearing. Include a prominent landmark in a set position within the view. If possible, have an assistant stand at a fixed distance from both the photographer and the center of the view, holding a stadia rod if available, within the view of the camera; preferably position the stadia rod on one established, consistent side of the view for each photo (right or left side).
2. Alternatively, use the procedure described in *Monitoring California's Annual Rangeland Vegetation* (UC/DANR Leaflet 21486, Dec. 1990). This procedure involves placing a permanently marked steel fence post to establish the position of the focal point (photo center).
3. When performing ambient or event photo monitoring, and when a compass is not available, then refer to a map and record the approximate bearing as north, south, east or west.

Suggestions for Photo Points by Type of Project:

Ambient or Event Monitoring, Including Photography Associated with Narrative Visual Assessments:

1. When first beginning an ambient monitoring program take representative long and/or medium view photos of stream reaches and segments of shoreline being monitored. Show the positions of these photos on a map, preferably on the stream/shore walk form. Subjects to be photographed include a representative view of the stream or shore condition at the beginning and ending positions of the segment being monitored, storm drain outfalls, confluence of tributaries, structures (e.g., bridges, dams, pipelines, etc.).

2. If possible, take a close view photograph of the substrate (streambed), algae, or submerged aquatic vegetation.

3. Time series: Photographs of these subjects at the same photo points should be repeated annually during the same season or month if possible.

Vegetation Management for Fire Prevention ("fuel reduction"):

1. Aerial view (satellite or airplane photography) if available.

2. In the absence of an aerial view, a landscape, long view showing all or representative sections of the project (bluff, bridge, etc.)

3. Long view (wide angle if possible) showing the project area or areas. Preferably these long views should be from an elevated vantage point.

4. Medium view photos showing examples of vegetation changes, and plantings if included in the project. It is recommended that a person (preferably holding a stadia rod) be included in the view for scale

5. To the extent possible include medium and long view photos that include adjacent stream channels.

Stream Sediment Load or Erosion Monitoring:

1. Long views from bridge or other elevated position.

2. Medium views of bars and banks, with a person (preferably holding a stadia rod) in view for scale.

3. Close views of streambed with ruler or other common object in the view for scale.

4. Time series: Photograph during the dry season (low flow) once per year or after a significant flood event when streambed is visible. The flood events may be episodic in the south and seasonal in the north.

5. Optional: Use a tape set perpendicular across the stream channel at fixed points and include this tape in your photos described in 1 and 2 above. For specific procedures refer to Harrelson, Cheryl C., C.L. Rawlins, and John P. Potyondy, *Stream Channel Reference Sites: An Illustrated Guide to Field Techniques*, United States Department of Agriculture, Forest Service, Rocky Mountain Forest and Range Experiment Station, General Technical Report RM-245.

PHOTO SIGN FORM: Print this form on yellow paper. Complete the following information for each photograph. Include in the photographic view so that it will be legible in the finished photo.

Location:

Subject Description:

Date:

Time: