



## Staff Report to the Planning Commission

Application Number: **10-0174**

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**Applicant:** Portia Halbert

**Agenda Date:** August 11, 2010

**Owner:** California State Parks(CSP)

**Agenda Item #:** 9

**APN:** 058-121-01, 059-011-06, 059-023-11,  
059-011-13

**Time:** After 9:00 a.m.

**Project Description:** Proposal for floodplain and habitat restoration on a fallow agricultural field of about 1.1 acres located along Laguna Creek (APN 059-011-06), with 9,750 cubic yards of spoils to be spread on three farm fields along Highway 1 (APNs 058-121-01, just south of the town of Davenport, APN 059-023-11, across highway 1 from the restoration site, and APN 059-011-13, immediately adjacent to the north of the restoration site).

**Location:** Farm fields along Highway 1, in the vicinity of the intersection of Laguna Road and Highway 1, five miles north of the City of Santa Cruz.

**Supervisory District:** 3rd District (District Supervisor: Neal Coonerty)

**Permits Required:** Coastal Development, Agricultural Grading, Riparian Exception

**Staff Recommendation:**

- Approval of Application 10-0174, based on the attached findings and conditions.

**Exhibits**

- |   |  |
|---|--|
| A. Project plans  | E. Assessor's, Location, Zoning and                        |
| B. Findings   | General Plan Maps  |
| C. Conditions   | F. Comments/Correspondence                                 |
| D. Categorical Exemption (CEQA<br>determination), issued by California<br>State Parks | G. Archaeological Survey Report;<br>Summary and Conclusion |

**Parcel Information**

Parcel Size:	7.23 acres, 1.1 acres to be restored
Existing Land Use - Parcel:	Commercial agriculture
Existing Land Use - Surrounding:	Commercial agriculture and open space on all parcels, residential on north side of parcel 059-011-06
Project Access:	Restoration site access via Laguna Road. Three other

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County of Santa Cruz Planning Department  
701 Ocean Street, 4<sup>th</sup> Floor, Santa Cruz CA 95060

parcels accessed by un-named farm access roads off of Highway 1.  
Planning Area: Bonny Doon  
Land Use Designation: A (Agriculture)  
Zone District: APN 059-011-06: CA-P-L (Commercial Agriculture with Agricultural Preserve and Historic Combining District).  
APN 058-121-01: CA-P, APN 059-023-11: CA, APN 059-011-13: CA-P  
Coastal Zone: X Inside \_\_\_ Outside  
(All APNs)  
Appealable to Calif. Coastal Comm. X Yes \_\_\_ No

**Environmental Information (APN 059-011-06 – Restoration Parcel)**

Geologic Hazards: Parcel is mapped as 100-year flood plain (Exhibit F). No geologic hazards are mapped on any of the other parcels.  
Soils: Elder sandy loam  
Fire Hazard: Not a mapped constraint  
Slopes: 1-2%  
Env. Sen. Habitat: Riparian  
Grading: 9,750 cubic yards  
Tree Removal: 21 trees proposed to be removed or salvaged and replanted.  
Scenic: Yes – Highway 1 corridor  
Drainage: Existing drainage adequate  
Archeology: Mapped/no physical evidence on site per surveys

**Environmental Information (APN 058-121-01 – Spoils Deposition Parcel)**

Geologic Hazards: Coastal bluff – farm field  
Soils: Watsonville loam  
Fire Hazard: Not a mapped constraint  
Slopes: 1-2%  
Env. Sen. Habitat: Coastal bluff – farm field  
Grading: 3,500 cubic yards  
Tree Removal: None  
Scenic: Yes – Highway 1 corridor  
Drainage: Farm irrigation  
Archeology: Mapped/no physical evidence on site per surveys

**Environmental Information (APN 059-023-11 – Spoils Deposition Parcel)**

Geologic Hazards: Coastal bluff – farm field  
Soils: Watsonville loam  
Fire Hazard: Not a mapped constraint  
Slopes: 1-2%  
Env. Sen. Habitat: Coastal bluff – farm field  
Grading: 1,500 cubic yards

Tree Removal: None  
Scenic: Yes – Highway 1 corridor  
Drainage: Farm irrigation  
Archeology: Mapped/no physical evidence on site per surveys

**Environmental Information (APN 059-011-13 – Spoils Deposition Parcel)**

Geologic Hazards: Coastal bluff – farm field  
Soils: Watsonville loam, Baywood loamy sand  
Fire Hazard: Not a mapped constraint  
Slopes: 1-2%  
Env. Sen. Habitat: Coastal bluff – farm field  
Grading: 4,500 cubic yards  
Tree Removal: None  
Scenic: Yes – Highway 1 corridor  
Drainage: Farm irrigation  
Archeology: Mapped/no physical evidence on site per surveys

**Services Information**

Urban/Rural Services Line: ☐ Inside ☒ Outside  
Water Supply: N/A  
Sewage Disposal: N/A  
Fire District: Cal Fire  
Drainage District: None

**History**

A 1928 aerial photo of the project site shows Highway 1 on what is now Laguna Road, with the railroad tracks in place. Modern Highway 1 was built in 1953 adjacent to the railway. The restoration parcel is bounded by Highway 1 and Laguna Road. The willow forest that dominated the site was largely removed in the late 1970's for agriculture, and the parcel has been in production on and off ever since. Despite significant scouring of the floodplain in the storm events of 1982, 1986, and 1998, the stream channel has held the same location since 1928.

This project was identified by the Integrated Watershed Restoration Program (IWRP) Technical Advisory Committee (TAC) as a high-priority project. IWRP began in 2002 as a countywide effort to build upon the various watershed assessments, enhancement plans and management plans completed in the County over the past 10 years. The goal of IWRP is to support local watershed partners in developing projects and to coordinate agencies that provide technical assistance, permits, and funds. The TAC was comprised of representatives from the following agencies:

County of Santa Cruz  
California Department of Fish and Game (CDFG)  
Regional Water Quality Control Board (RWQCB)  
California Coastal Commission

NOAA Fisheries  
US Army Corps of Engineers (USACE)  
US Fish and Wildlife Service (USFWS)  
USDA Natural Resources Conservation Service (NRCS)

The TAC reviewed the plans for this project prior to the submittal to the County for permitting, and the comments received from the TAC were incorporated into the project design. Additional comments from the County Planning Department and the Drainage Division of the Department of Public Works have been either incorporated or otherwise addressed prior to the final submittal.

### **Project Setting**

The project site is an approximately 1.1-acre area, the fallow portion of an agricultural field immediately adjacent to Laguna Creek and Highway 1. The remaining portion of the agricultural field is currently in organic strawberry production and will not be affected by the project.

The three farms that will receive the fill are all located along Highway 1 north of the project site. Two of the parcels (APNs 059-023-11 and 058-121-01) are owned by the California Department of Parks and Recreation, the third is owned by the Trust for Public Lands (APN 059-011-13). All three parcels have fields that are in active production.

### **Detailed Project Description**

The purpose of this project is to provide floodplain restoration and improve habitat for endangered species along lower Laguna Creek within Coastal Dairies State Park. Design features include lowering the field to improve flood capacity and creating an overflow area for water during high flows, creating backwater channels and areas of permanent and ephemeral wetlands, and incorporating large woody material into the floodplain and riparian area. Approximately 9,750 cubic yards of earth will be excavated to create this geometry. Access to the site exists on a 12-foot wide dirt road. Excavated soil will be deposited on three coastal farms within the Coastal Dairies State Park. Trees that are removed as a result of this project will be reincorporated into the floodplain to induce scour in certain locations and to provide vegetative cover for animals.

### **Zoning & General Plan Consistency**

The subject property is a 7.23-acre lot, located in the Commercial Agriculture zone district, a designation which allows Agricultural uses. The proposed environmental enhancement project is a principal permitted use within the zone district and the project is consistent with the site's A (Agriculture), P (Preserve), and L (Historic) General Plan designations.

### **Local Coastal Program Consistency**

The County's certified Local Coastal Program encourages environmental restoration as stated in General Plan Objective 5.2; "To preserve, protect and restore all riparian corridors and wetlands for the protection of wildlife and aquatic habitat, water quality, erosion control, open space,

aesthetic and recreational values and the conveyance and storage of flood waters.” While the restoration site is not located between the shoreline and the first through road, two of the three fields that will receive fill are located on the coastal bluff between Highway 1 and the shoreline. These locations are not currently coastal access points, and the deposition of fill onto these agricultural fields will have no impact on coastal access. Consequently, the proposed project will not interfere with public access to the beach, ocean, or other nearby body of water, and is consistent with the County’s Local Coastal Program.

### **Environmental Review**

California State Parks is the lead agency regarding environmental review and has made the determination that the project is categorically exempt under the California Environmental Quality Act (CEQA) Guidelines section 15301 and 15304 (Attachment D). The Environmental Coordinator for the County of Santa Cruz has reviewed this determination and concurs that the exemptions cited above apply. No action is necessary on the part of the Planning Commission.

### **Conclusion**

As proposed and conditioned, the project is consistent with all applicable codes and policies of the Zoning Ordinance and General Plan/LCP. Please see Exhibit "B" ("Findings") for a complete listing of findings and evidence related to the above discussion.

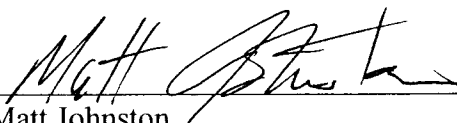
### **Staff Recommendation**

- **APPROVAL** of Application Number **10-0174**, based on the attached findings and conditions.

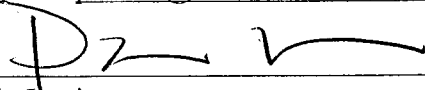
**Supplementary reports and information referred to in this report are on file and available for viewing at the Santa Cruz County Planning Department, and are hereby made a part of the administrative record for the proposed project.**

**The County Code and General Plan, as well as hearing agendas and additional information are available online at: [www.co.santa-cruz.ca.us](http://www.co.santa-cruz.ca.us)**

Report Prepared By:

  
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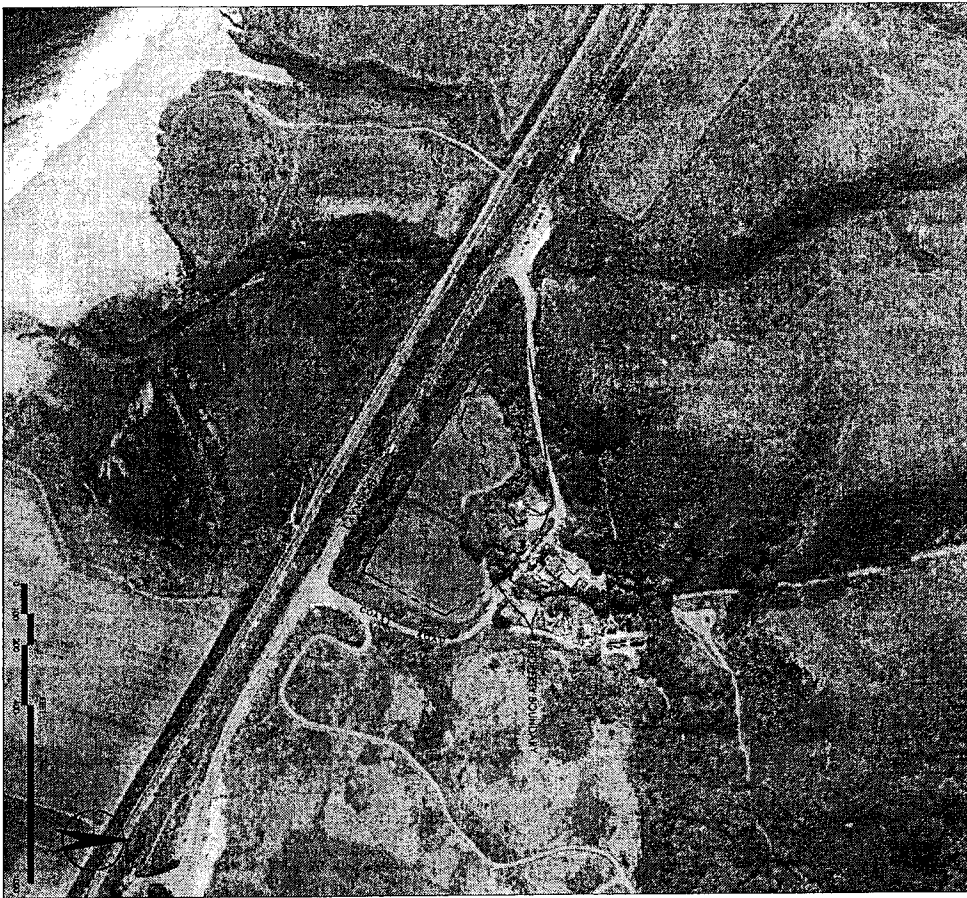
Report Reviewed By:

  
Paia Levine  
Principal Planner  
Santa Cruz County Planning Department

# LAGUNA CREEK HABITAT ENHANCEMENT PROJECT

COUNTY OF SANTA CRUZ, CALIFORNIA

## PROJECT AREA



## SHEET INDEX

SHEET 1	COVER SHEET
SHEET 2	ABBREVIATIONS, SYMBOLS, AND GENERAL NOTES
SHEET 3	SITE PREPARATION PLAN
SHEET 4	GRADING PLAN
SHEET 5	LAYOUT PLAN
SHEET 6	PHASE I GRADING PLAN
SHEET 7	FLOODPLAIN SECTIONS
SHEET 8	SCOUR LOG DETAILS AND SECTIONS
SHEET 9	LOGJAM DETAILS AND SECTIONS
SHEET 10	TYPICALS
SHEET 11	EROSION CONTROL PLAN

## PROJECT TEAM

### CLIENT/OWNER

PORTIA HALBERT  
CALIFORNIA STATE PARKS  
303 BIG TREES PARK ROAD  
FELTON, CALIFORNIA 95018  
TEL 831 335-6386

### PROJECT LEAD

JIM ROBINS  
RESOURCE CONSERVATION DISTRICT  
OF SANTA CRUZ COUNTY  
820 BAY AVENUE, SUITE 128  
CAPITOLA, CALIFORNIA 95010  
TEL 831 464-2950

### DESIGNERS

BALANCE HYDROLOGICS, INC.  
800 BANCROFT WAY, SUITE 101  
BERKELEY, CALIFORNIA 94710  
TEL 510 704-1000

### TECHNICAL ADVISORY COMMITTEE

JOHN AMBROSE (NOAA FISHERIES)  
KIT CRUMP (NOAA FISHERIES)  
PORTIA HALBERT (CSP)  
CHRIS SPOHRER (CSP)  
JIM ROBINS (RCDSCC)  
MIKE PODLECH  
SUSAN DELEON (CDF&G)  
MICHELLE LEICESTER (CDF&G)  
KATE GOODNIGHT (CCC)  
KAREN CHRISTENSEN (SCCRCD)  
KELLI CAMERA (SCCRCD)  
HOWARD KOLB (RWQCB)

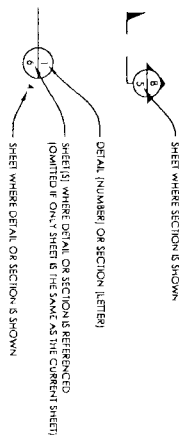
EXHIBIT A

COVER SHEET				DESIGNED BY NVR DRAWN BY DJ CHECKED BY EB IN CHARGE BEH DATE 20100618	DATE 6-18-10 BY ER SUBMITALS / REVISIONS 100% PLANSET	<p><b>Balance Hydrologics, Inc.</b> 800 Bancroft Way, Suite 101 Berkeley, CA 94710 tel (510) 704-1000 fax (510) 704-1001 www.balancehydro.com</p>
LAGUNA CREEK HABITAT ENHANCEMENT PROJECT		PROJECT NUMBER 201013 SCALE 1" = 200' SHEET 1 OF 11				

CSP	CALIFORNIA STATE PARKS
DIAM	DIAMETER
(E)	EXISTING
ELEV	ELEVATION
EX	EXISTING GRADE
FINV	FINISHED GRADE
ISO	ISOTHERMIC
LWD	LARGE WOODY DEBRIS
MIN	MINIMUM
NIS	NOT TO SCALE
R/W	RIGHT OF WAY
TP	TYPICAL
WSE	WATER SURFACE ELEVATION
W/	WITH
	FEET
	INCHES

SYMBOL	DESCRIPTION
	EXISTING CONTOUR LINE
	FINISH CONTOUR LINE
	FINISH SPOT ELEVATION
	GRADEBREAK LINE
	GRADING LIMIT LINE
	PROPERTY LINE
	UEG WITH ROADWAY
	TREE TO PROTECT
	TREE TO BE REMOVED OR SALVAGED FOR REUSE OR REPLANTING
	SURVEY CONTROL BENCHMARK LOCATION
	LAYOUT POINT
	EXISTING WOODRAT NEST TO BE PROTECTED
	EXISTING WOODRAT NESTS TO BE RELOCATED OR REMOVED
	WILLOW WATTLE AND STAKING ZONE
	PRECISION CONTROL, BLANKET AND HYDROSEDED
	HYDROSEDED
	SANDBAGS
	SALT FENCE
	ABOVE GROUND IRRIGATION LINE

1. SURVEY CONTROL SHALL BE PROVIDED AS CONTROL POINTS SHOWN ON SHEET 3. THREE BENCHMARKS ARE USED. TWO ARE CALLED OUT ON THE PLAN AS POINT NUMBER 1, 2 AND 3. HORIZONTAL COORDINATES ARE BASED ON DATUM OF 1986. ALL HORIZONTAL AND VERTICAL DISTANCES ARE IN FEET AND/OR DECIMAL FEET (FEET) AS NOTED ON THE PLAN. BARE TOPOGRAPHY PROVIDED TO BALANCE HYDROLOGICS BY TDS THROUGH PROJECT LALO.
2. THE LOCATION OF ANY BERING, UTILITIES SHOWN ON THE DRAWINGS IS BASED ON INFORMATION FROM LIMITED REFERENCE MAPS AND DATA SOURCES PROVIDED TO BALANCE HYDROLOGICS. THE COMPLETES OF THE INFORMATION AND EXACT LOCATIONS ARE NOT GUARANTEED. CIP SHALL CONTACT UNDERGROUND SERVICE ALERT (USA), TELEPHONE NUMBER (800) 442-4444, AT LALO TWO (2) WORKDAYS PRIOR TO DIGGING AND RECORD THE LOCATION OF ANY BERING AND UTILITIES.
3. THE FOLLOWING PROJECT ASPECTS WILL BE LIMITED OR CONSIDERED AT A CONCEPTUAL LEVEL AND ARE THE RESPONSIBILITY OF CIP:
  - 3.1. LOSS THE CONTROL SHALL AS PUBLIC CONVENIENCE AND SAFETY, WORKER SAFETY, CONSTRUCTION NOISES, ENVIRONMENTAL CONCURS SUCH AS WORK LIMITS, VEGETATION PROTECTION, CREEK, CORRIDOR PROTECTION, UTILITY CONTROL, AND COMPLIANCE WITH LOCAL, STATE AND FEDERAL LAWS AND REGULATION.
  - 3.2. CIP RESPONSIBLE FOR ARCHITECTURAL, ENVIRONMENTAL AND OBSERVATION.
  - 3.3. MEASUREMENT AND ADMINISTRATION TASKS.
  - 3.4. CONSTRUCTION SCHEDULE.
  - 3.5. SITE FACING AND ACCESS.
  - 3.6. PLANNING AND DESIGN.
  - 3.7. DESIGN AND CLEARED VEGETATION COLLECTION AND DISPOSAL. PLAN.
  - 3.8. PLANNING AND REGULATION. PLAN.
4. SET THE CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL NOTES AND REQUIREMENTS.



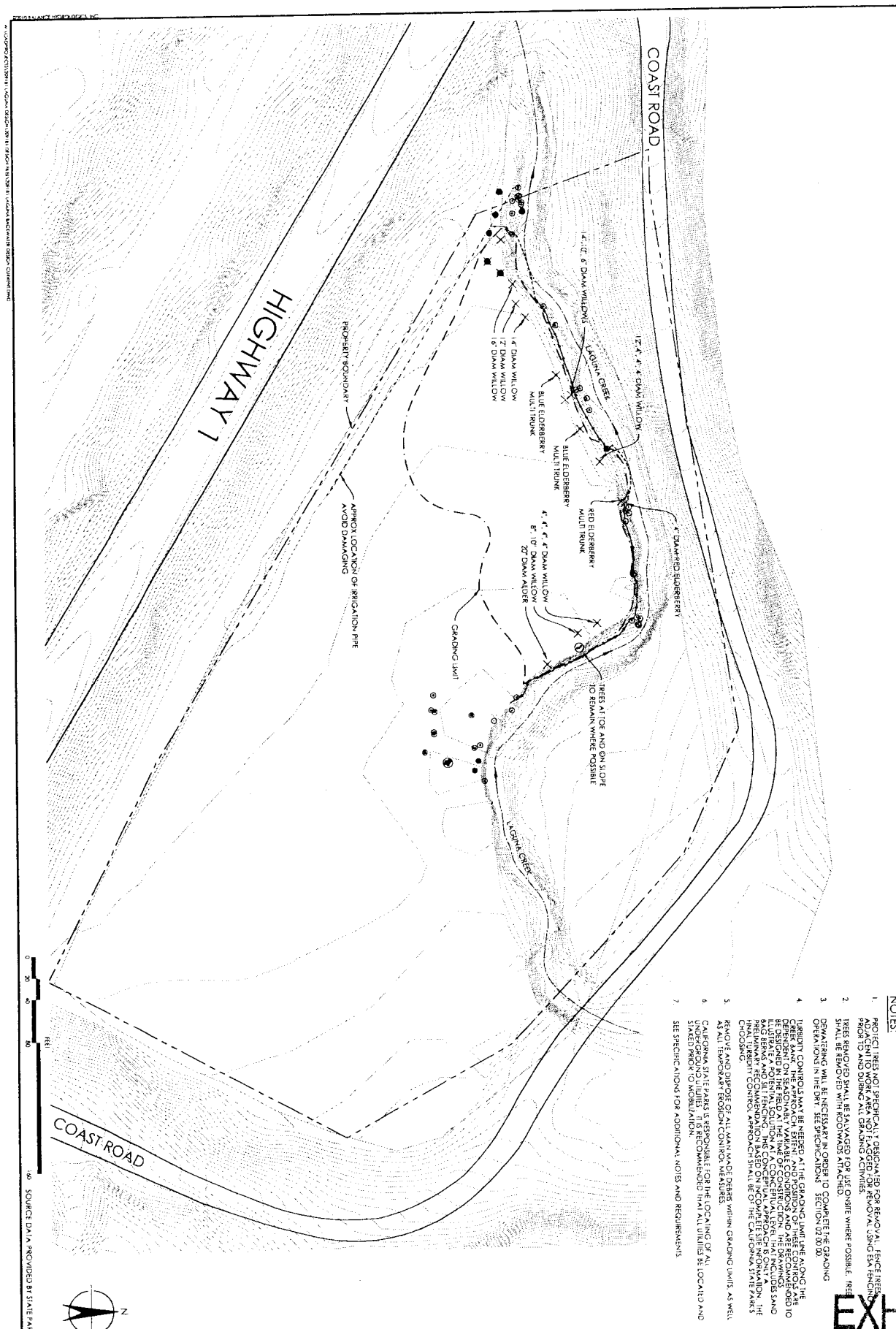
## COUNTY OF SANTA CRUZ, CALIFORNIA



DESIGNED BY NN/ER	DATE	BY	SUBMITTALS / REVISIONS
DRAWN BY DJ	6-18-10	ER	100% PLANSET
CHECKED BY EB			
IN CHARGE BKH			
DATE 20100618			



**Balance  
Hydrologics, Inc.**  
800 Bancroft Way - Suite 101  
Berkeley, CA 94710  
tel (510) 704-1000 - fax (510) 704-1001  
[www.balancehydro.com](http://www.balancehydro.com)



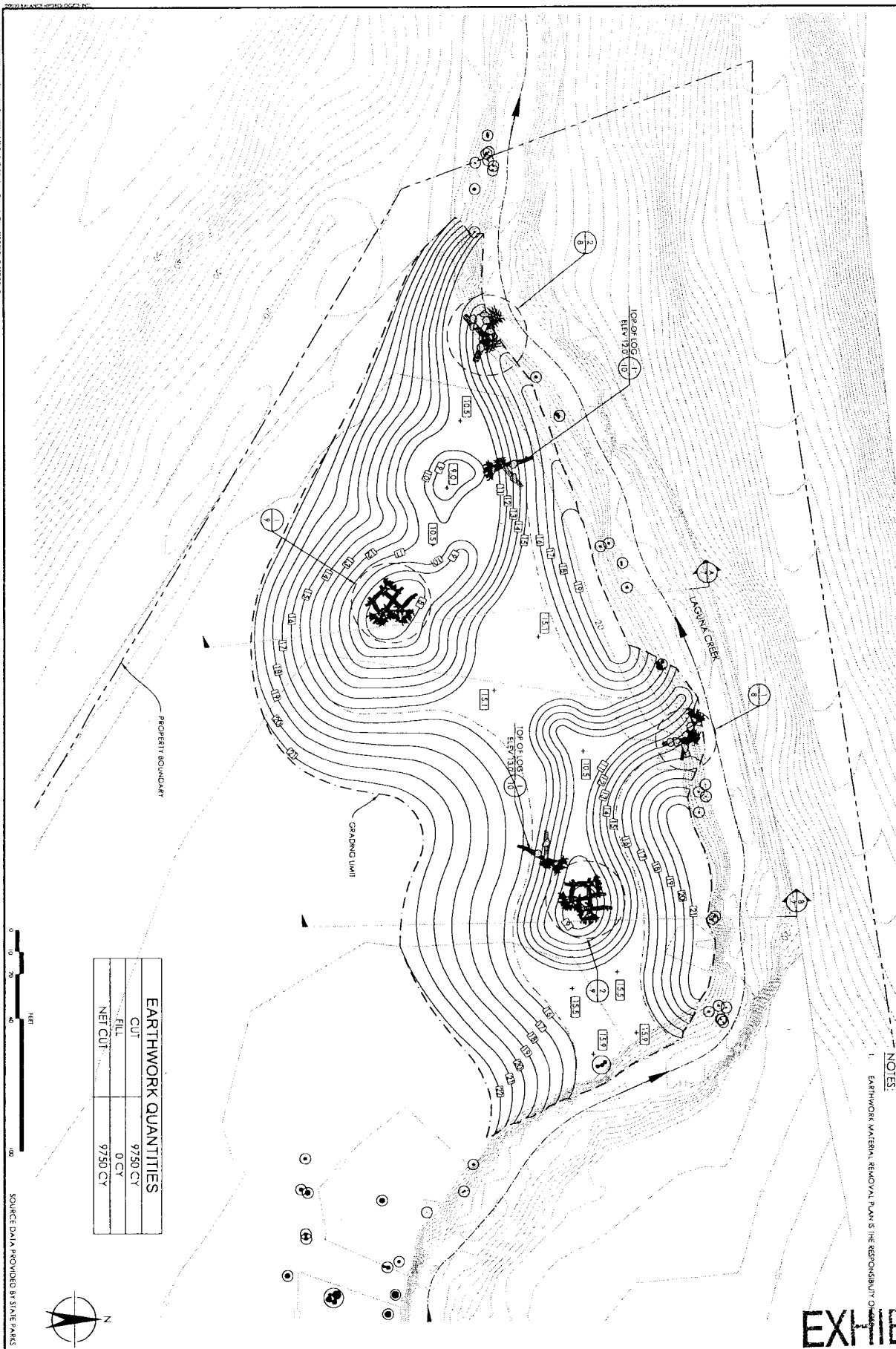
**NOTES:**

1. PROJECT TREES NOT SPECIFICALLY DESIGNATED FOR REMOVAL, SINCE TREES ADJACENT TO WORK AREA NOT FLAGGED FOR REMOVAL USING EXISTING FENCING PRIOR TO AND DURING ALL GRADING ACTIVITIES.
2. TREES REMOVED SHALL BE SALVAGED FOR USE ON-SITE WHERE POSSIBLE. TREES SHALL BE REMOVED WITH ROOTS AND BRANCHES REMOVED.
3. DEMARKING WILL BE NECESSARY IN ORDER TO COMPLETE THE GRADING OPERATIONS IN THE DIRT. SEE SPECIFICATION SECTION 32.01.00.
4. TURBIDITY CONTROLS MAY BE NEEDED AT THE GRADING LIMIT ALONG THE LAGUNA CREEK. TURBIDITY CONTROLS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE GRADING OPERATIONS. THE TURBIDITY CONTROLS SHALL BE DESIGNED IN THE FIELD AT THE TIME OF CONSTRUCTION. THE TURBIDITY CONTROLS SHALL BE DESIGNED IN THE FIELD AT THE TIME OF CONSTRUCTION. THE TURBIDITY CONTROLS SHALL BE DESIGNED IN THE FIELD AT THE TIME OF CONSTRUCTION.
5. REMOVE AND DISPOSE OF ALL WASTE MATERIALS WITHIN GRADING LIMITS, AS WELL AS ALL TEMPORARY EROSION CONTROL MEASURES.
6. CALIFORNIA STATE PARKS IS RESPONSIBLE FOR THE LOCATING OF ALL LOCATED AND UNLOCATED UTILITIES. IT IS RECOMMENDED THAT ALL UTILITIES BE LOCATED AND SHOWN PRIOR TO ANY GRADING OPERATIONS.
7. SEE SPECIFICATIONS FOR ADDITIONAL NOTES AND REQUIREMENTS.

**EXHIBIT A**

<p><b>SITE PREPARATION PLAN</b></p> <p><b>LAGUNA CREEK HABITAT ENHANCEMENT PROJECT</b></p> <p>COUNTY OF SANTA CRUZ, CALIFORNIA</p>		<p>DESIGNED BY: M/ER</p> <p>DRAWN BY: DJ</p> <p>CHECKED BY: ER</p> <p>IN CHARGE: BEH</p> <p>DATE: 20100818</p>	<p>DATE: 6-18-10</p> <p>BY: ER</p> <p>SUBMITTALS / REVISIONS:</p> <p>100% PLANSET</p>	<p><b>Balance Hydrologics, Inc.</b></p> <p>800 Bancroft Way - Suite 101</p> <p>Berkeley, CA 94710</p> <p>tel (510) 704-1000 / fax (510) 704-1001</p> <p>www.balancehydro.com</p>
<p>PROJECT NUMBER: 209181</p> <p>SCALE: 1"=40'</p> <p>SHEET: 3</p> <p>OF 11</p>	<p>SOURCE DATA PROVIDED BY STATE PARKS</p>			





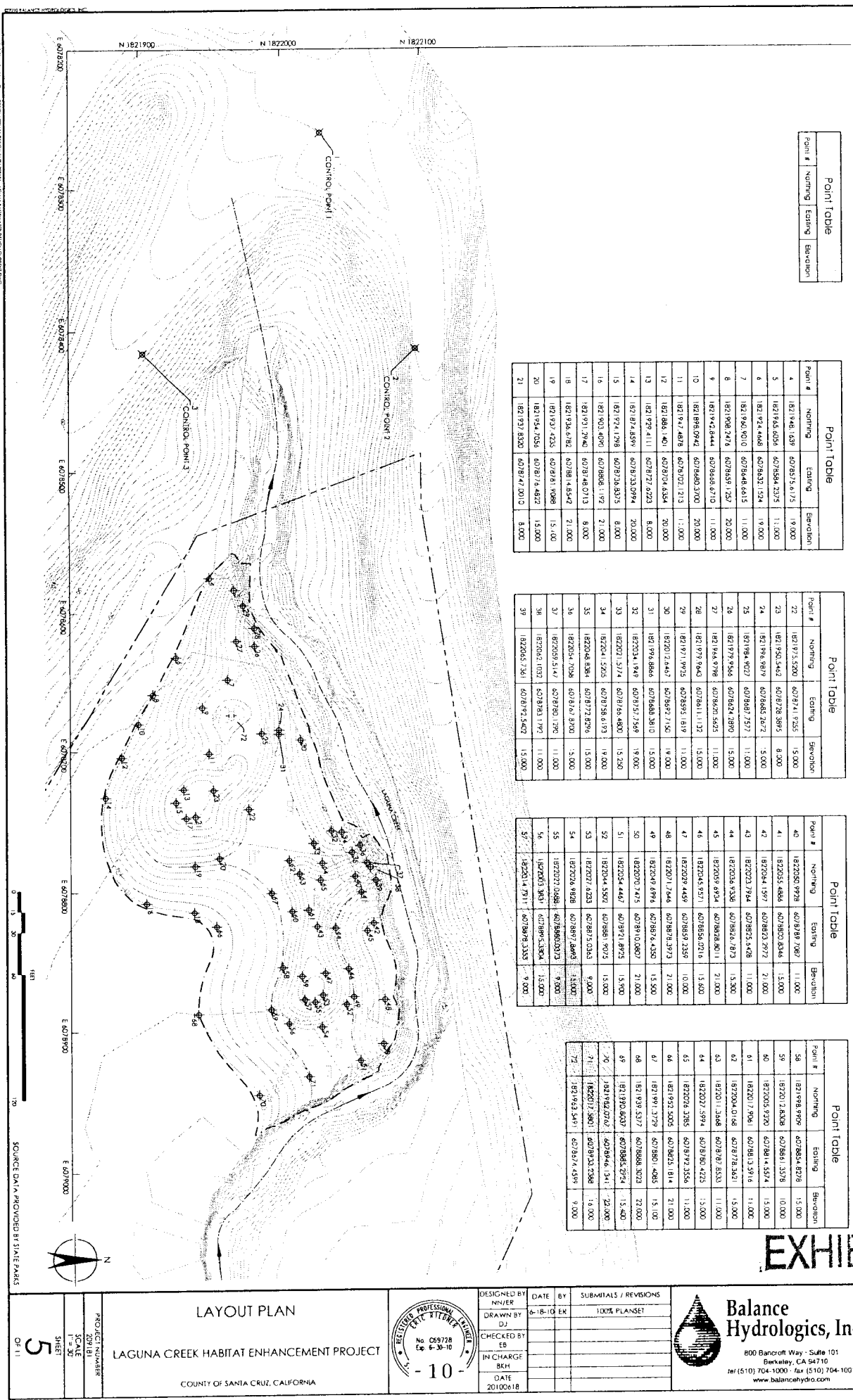
NOTES:

1. EARTHWORK MATERIAL REMOVAL PLAN IS THE RESPONSIBILITY OF THE CLIENT.

**EXHIBIT A**

<p>DESIGNED BY: NN/ER</p> <p>DRAWN BY: DJ</p> <p>CHECKED BY: LB</p> <p>IN CHARGE: BKH</p> <p>DATE: 20100618</p>		<p>DATE: 6-18-10</p> <p>BY: ER</p> <p>SUBMITALS / REVISIONS: 100% PLANSET</p>		<p><b>Balance Hydrologics, Inc.</b></p> <p>800 Bancroft Way - Suite 101 Berkeley, CA 94710 tel (510) 704-1000 • fax (510) 704-1001 www.balancehydro.com</p>
<p>PROJECT NUMBER: 17-20</p> <p>SCALE: 1" = 20'</p> <p>SHEET: 4</p> <p>OF 11</p>		<p>GRADING PLAN</p> <p>LAGUNA CREEK HABITAT ENHANCEMENT PROJECT</p> <p>COUNTY OF SANTA CRUZ, CALIFORNIA</p>		





Point Table		
Point #	Northing	Easting

Point Table		
Point #	Northing	Easting
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21	1821948.149	6073500.000

Point Table		
Point #	Northing	Easting
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38	1821948.149	6073500.000
39	1821948.149	6073500.000

Point Table		
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57	1821948.149	6073500.000

Point Table		
Point #	Northing	Easting
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EXHIBIT A

PROJECT NUMBER  
SC-116  
SHEET  
5  
OF 11

LAYOUT PLAN  
LAGUNA CREEK HABITAT ENHANCEMENT PROJECT  
COUNTY OF SANTA CRUZ, CALIFORNIA

DESIGNED BY  
MINVER  
DRAWN BY  
D  
CHECKED BY  
EB  
IN CHARGE  
BKH  
DATE  
20100618


DATE  
6-18-10  
BY  
EX

SUBMITALS / REVISIONS  
100% PLANSET

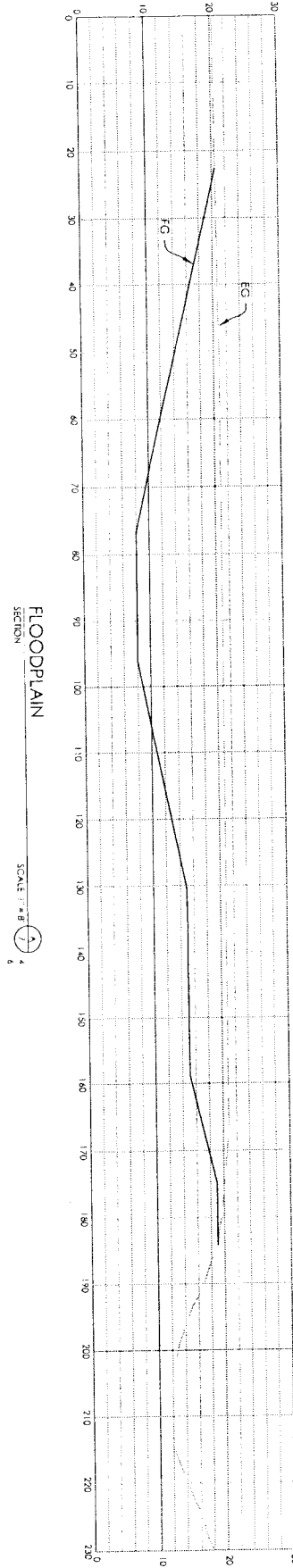
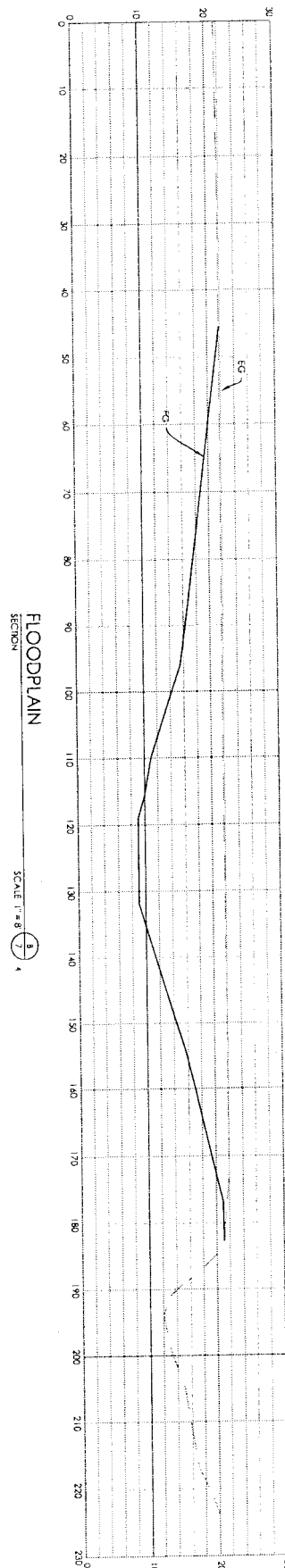
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800 Bancroft Way - Suite 101  
Berkeley, CA 94710  
tel: (510) 704-1000 • fax: (510) 704-1001  
www.balancehydro.com




**EXHIBIT A**


6 OF 11 SHEET	PROJECT NUMBER 209181 DATE 11/2/10	<b>PHASE 1 GRADING PLAN</b> <b>LAGUNA CREEK HABITAT ENHANCEMENT PROJECT</b> COUNTY OF SANTA CRUZ, CALIFORNIA		REGISTERED PROFESSIONAL ENGINEER No. CE9728 Exp. 6-30-10 - 11 -	DESIGNED BY NN/ER DATE 6-18-10 BY ER SUBMITALS / REVISIONS 100% PLANSET CHECKED BY ER IN CHARGE BKH DATE 20100618	 <b>Balance Hydrologics, Inc.</b> 800 Bancroft Way - Suite 101 Berkeley, CA 94710 Tel: (510) 704-1000 - Fax: (510) 704-1001 www.balancehydro.com
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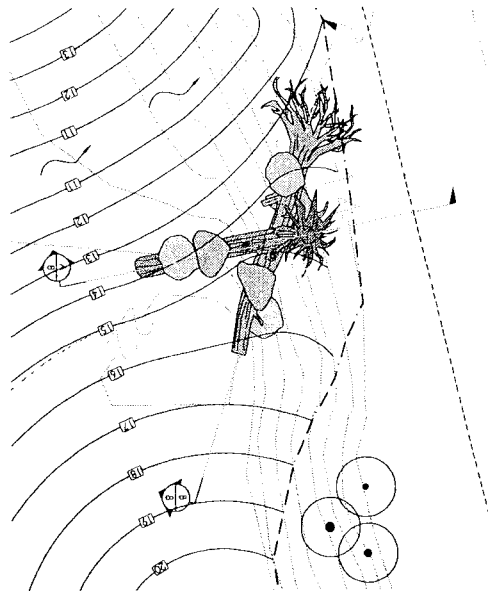


**EXHIBIT A**

PROJECT NUMBER 2009.01 SCALE 1" = 8' SHEET 7 OF 11	<b>FLOODPLAIN SECTIONS</b>  <b>LAGUNA CREEK HABITAT ENHANCEMENT PROJECT</b>  COUNTY OF SANTA CRUZ, CALIFORNIA	 <b>- 12 -</b>	DESIGNED BY NPR/ER	DATE 6-18-10	BY ER	SUBMITTALS / REVISIONS 100% PLANSET
	DRAWN BY DJ					
	CHECKED BY EB					
	IN CHARGE BKH					
	DATE 20100618					



**Balance Hydrologics, Inc.**  
 800 Bancroft Way, Suite 101  
 Berkeley, CA 94710  
 tel (510) 704-1000 / fax (510) 704-1001  
 www.balancehydro.com

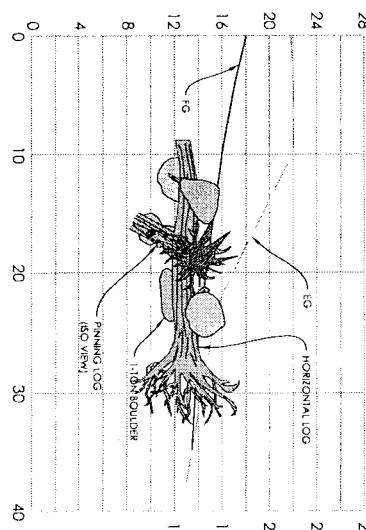
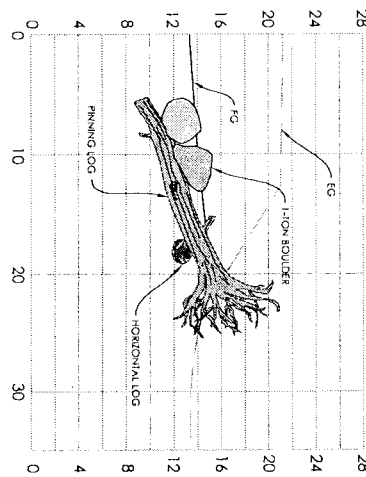


UPSTREAM SCOUR LOGS

SCALE 1" = 5'

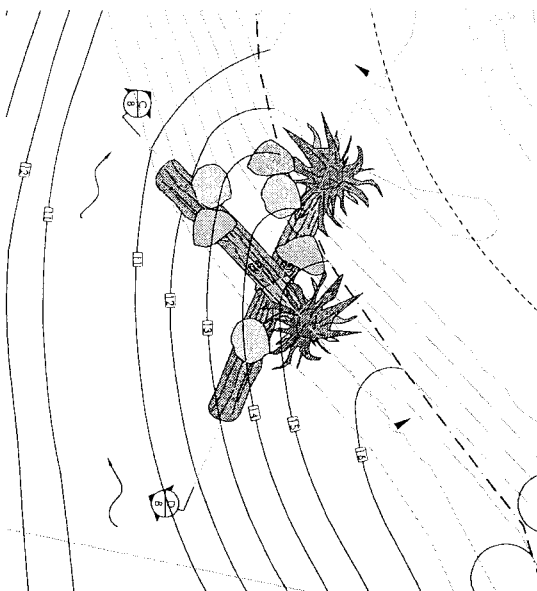
UPSTREAM SCOUR LOGS

SCALE 1" = 5'



UPSTREAM SCOUR LOGS

SCALE 1" = 5'

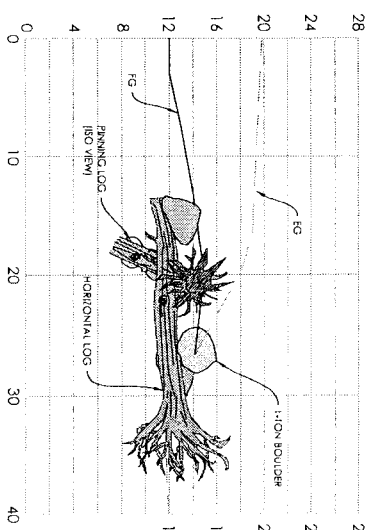
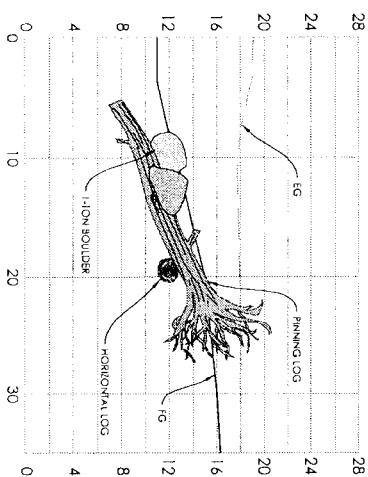


DOWNSTREAM SCOUR LOGS

SCALE 1" = 5'

DOWNSTREAM SCOUR LOGS

SCALE 1" = 5'



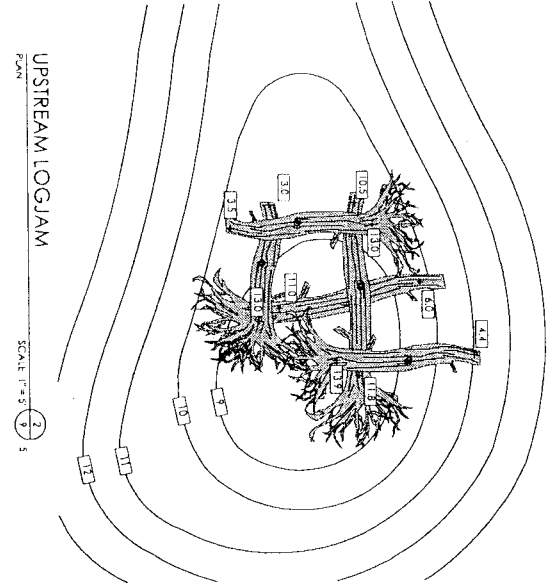
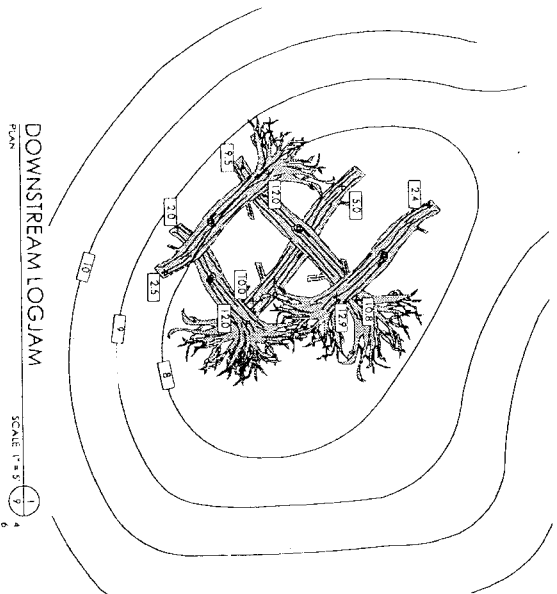
DOWNSTREAM SCOUR LOGS

SCALE 1" = 5'

EXHIBIT A

<p>SCOUR LOG DETAILS AND SECTIONS</p> <p>LAGUNA CREEK HABITAT ENHANCEMENT PROJECT</p> <p>COUNTY OF SANTA CRUZ, CALIFORNIA</p>		<p>DESIGNED BY: NN/ER</p> <p>DRAWN BY: DJ</p> <p>CHECKED BY: SA</p> <p>IN CHARGE: SKH</p> <p>DATE: 20100618</p>	<p>DATE: 6-18-10</p> <p>BY: ER</p> <p>SUBMITALS / REVISIONS: 100% PLANSET</p>	<p><b>Balance Hydrologics, Inc.</b></p> <p>800 Bancroft Way - Suite 101 Berkeley, CA 94710 Tel: (510) 704-1000 • Fax: (510) 704-1001 www.balancehydro.com</p>
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NOTES:

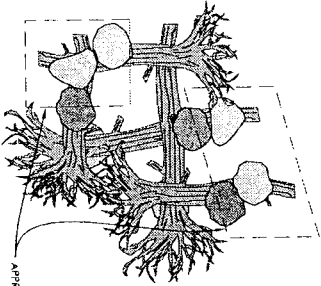
1. SPOT ELEVATIONS ON LOGS OF LOGS HAVE BEEN PROVIDED AS INITIAL GUIDANCE ONLY. FINAL LOG ELEVATIONS WILL BE DETERMINED BY FIELD SURVEY AND DRIVERS OF LOGS USED IN CONSTRUCTION.
2. DETAIL 3 ON THIS SHEET SHOWS TYPICAL ROCK ANCHORS FOR LOGS. A MINIMUM OF 100 LBS OF ROCK MUST BE USED TO ANCHOR THE LOGS SHOWN. ADDITIONAL LARGE ROCK MAY BE USED TO ANCHOR LOGS IF AVAILABLE. FOUNDATION ON THE LOG STRUCTURES.

DOWNSTREAM LOGJAM

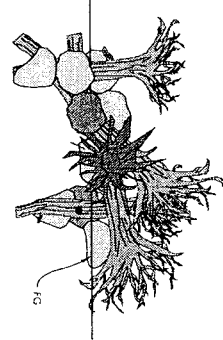
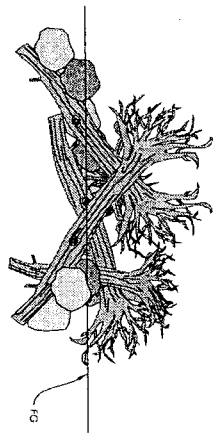
SCALE 1" = 5' 3/4"

UPSTREAM LOGJAM

SCALE 1" = 5' 3/4"



APPROX. EXTENT OF EARTH COVERAGE



LOGJAM ROCK PLACEMENT

SCALE 1" = 5' 3/4"

LOGJAM ELEVATION

SCALE 1" = 5' 3/4"

LOGJAM ELEVATION

SCALE 1" = 5' 3/4"

EXHIBIT A

LOGJAM DETAILS AND SECTIONS

LAGUNA CREEK HABITAT ENHANCEMENT PROJECT

COUNTY OF SANTA CRUZ, CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER

No. 00728

Exp. 6-30-10

- 14 -

DESIGNED BY	DATE	BY	SUBMITALS / REVISIONS
DRAWN BY	6-18-10	ER	100% PLANSET
CHECKED BY			
IN CHARGE			
DATE			
20100618			

PROJECT NUMBER

209181

SHEET

9

OF 11

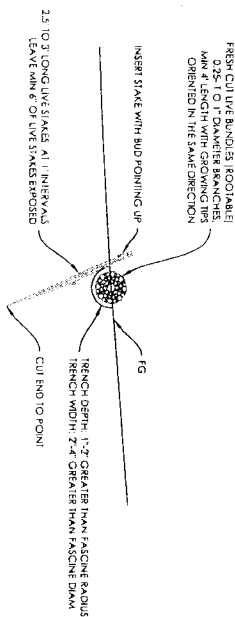
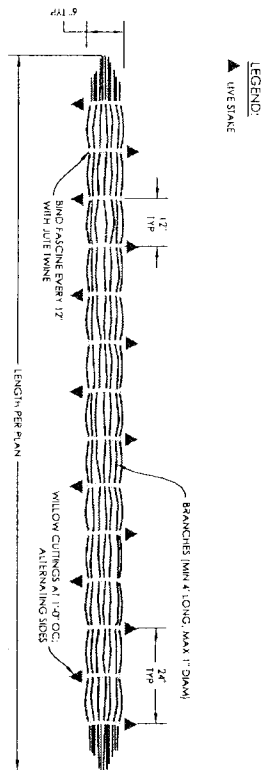
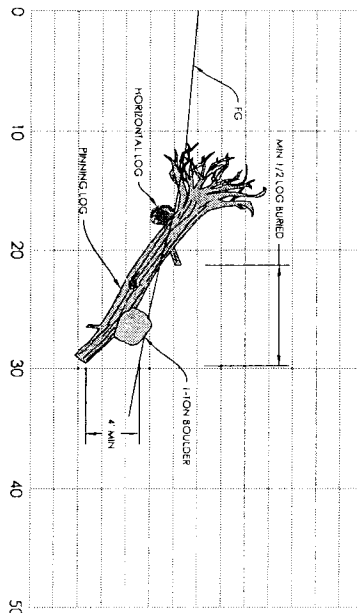
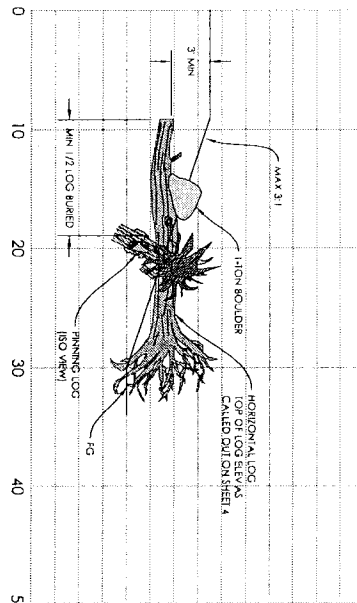
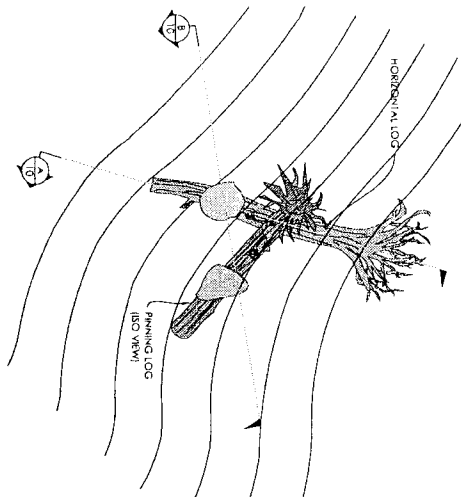
**Balance Hydrologics, Inc.**

800 Bancroft Way - Suite 101

Berkeley, CA 94710

tel (510) 704-1000 / fax (510) 704-1001

www.balancehydro.com



WILLOW FASCINE

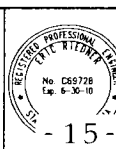
SECTION

WILLOW FASCINE

SECTION

EXHIBIT A

<p>DESIGNED BY: NN/ER DATE: 6-18-10 BY: ER</p>		<p>SUBMITALS / REVISIONS 100% PLANSET</p>	
<p>DRAWN BY: DJ CHECKED BY: EB IN CHARGE: SKH DATE: 20100618</p>			
<p>PROJECT NUMBER: 200181 SHEET: 10 OF 11</p>			
<p>TYPICALS LAGUNA CREEK HABITAT ENHANCEMENT PROJECT COUNTY OF SANTA CRUZ, CALIFORNIA</p>			
<p>Balance Hydrologics, Inc. 800 Bancroft Way - Suite 101 Berkeley, CA 94710 tel (510) 704-1000 fax (510) 704-1001 www.balancehydro.com</p>			



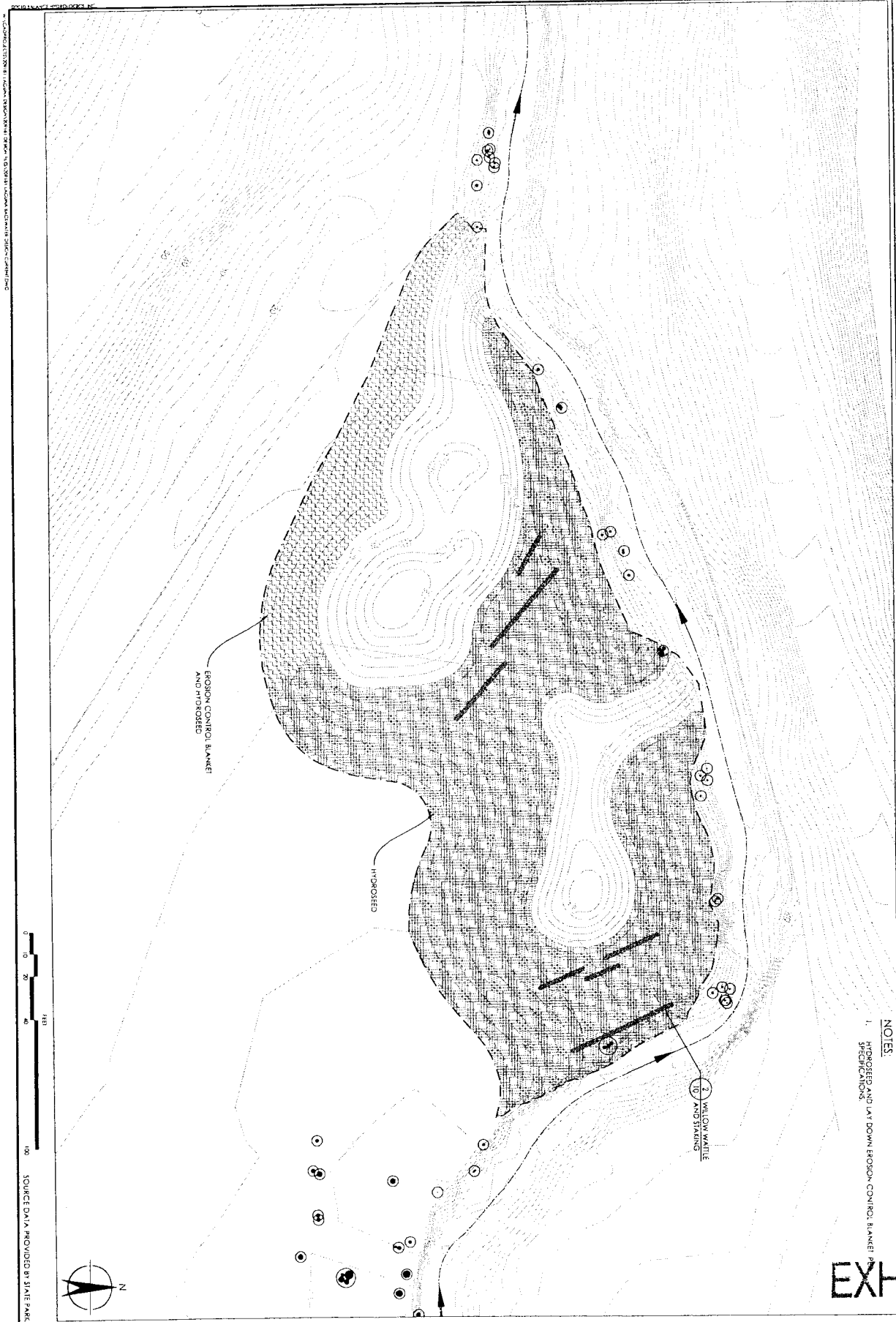


EXHIBIT A

<b>EROSION CONTROL PLAN</b> <b>LAGUNA CREEK HABITAT ENHANCEMENT PROJECT</b> COUNTY OF SANTA CRUZ, CALIFORNIA		PROJECT NUMBER 201111 SCALE 1" = 20' SHEET 11 OF 11	REGISTERED PROFESSIONAL ENGINEER No. 655728 Exp. 6-30-10 - 16 -	DESIGNED BY NP/ER DRAWN BY DJ CHECKED BY EB IN CHARGE BKH DATE 20100618	DATE 6-18-10 BY ER SUBMITTALS / REVISIONS 100% PLANSET	 <b>Balance Hydrologics, Inc.</b> 800 Bancroft Way - Suite 101 Berkeley, CA 94710 Tel: (510) 704-1000 Fax: (510) 704-1001 www.balancehydro.com
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## **Coastal Development Permit Findings**

1. That the project is a use allowed in one of the basic zone districts, other than the Special Use (SU) district, listed in section 13.10.170(d) as consistent with the General Plan and Local Coastal Program LUP designation.

This finding can be made, in that the property is zoned Commercial Agriculture and the proposed restoration project is a principal permitted use within the zone district, consistent with the site's Agriculture General Plan designation. General Plan Objective 5.2: "To preserve, protect and restore all riparian corridors and wetlands for the protection of wildlife and aquatic habitat, water quality, erosion control, open space, aesthetic and recreational values and the conveyance and storage of flood waters." The deposition of soil onto the three local agricultural fields is a common agricultural practice and should have no impact on those three parcels.

2. That the project does not conflict with any existing easement or development restrictions such as public access, utility, or open space easements.

This finding can be made, in that the proposal does not conflict with any development restrictions or easements. Three of the four parcels involved are zoned CA-P (agricultural preserve) (APNs 058-121-01, 059-011-06 and 059-011-13). The Agricultural Preserve Combining District is established to denote those lands which are restricted to agricultural, open space and compatible uses by contractual agreement. Wildlife habitat is a compatible use.

3. That the project is consistent with the design criteria and special use standards and conditions of this chapter pursuant to section 13.20.130 et seq.

This finding is not applicable, as the proposed project is not subject to section 13.20.130 of the County Code and does not include any construction that would be subject to design criteria.

4. That the project conforms with the public access, recreation, and visitor-serving policies, standards and maps of the General Plan and Local Coastal Program land use plan, specifically Chapter 2: figure 2.5 and Chapter 7, and, as to any development between and nearest public road and the sea or the shoreline of any body of water located within the coastal zone, such development is in conformity with the public access and public recreation policies of Chapter 3 of the Coastal Act commencing with section 30200.

This finding can be made, in that the restoration project site is not located between the shoreline and the first public road. Two of the three fields that will receive soil are between the ocean and Highway 1, however, neither of these are current coastal access points and the deposition of fill will have no effect on public access, recreation or visitor services. Consequently, this project will not interfere with public access to the beach, ocean, or any nearby body of water. Further, the project site is not identified as a priority acquisition site in the County Local Coastal Program.

5. That the proposed development is in conformity with the certified local coastal program.

This finding can be made, in that local coastal program encourages restoration of sensitive habitat. Particularly in General Plan Objective 5.2, as cited above; "To preserve, protect and

Application #: 10-0174  
APN: 059-011-06  
Owner: California State Parks

restore all riparian corridors and wetlands for the protection of wildlife and aquatic habitat, water quality, erosion control, open space, aesthetic and recreational values and the conveyance and storage of flood waters." The deposition of soil onto the three local agricultural fields is a common agricultural practice and should have no impact on those three parcels.

**Required Findings for Development on Land Zoned Commercial Agriculture or  
Agricultural Preserve County Code Section 13.10.314(a)**

1. The establishment or maintenance of this use will enhance or support the continued operation of commercial agriculture on the parcel and will not reduce, restrict or adversely affect agricultural resources, or the economic viability of commercial agricultural operations, of the area.

This finding can be made, in that proposed restoration will result in a reduction in both the period and elevation of flood events on the remainder of the parcel, improving the overall agricultural production from this parcel. The remaining agriculture field on the subject parcel will remain in production throughout the life of the project, and the area designated for habitat restoration is the least productive portion of this parcel, due to the periodic flooding. The deposition of soil onto the three local agricultural fields is a common agricultural practice and should have no impact on those three parcels.

2. The use or structure is ancillary, incidental or accessory to the principal agricultural use of the parcel or no other agricultural use of the parcel is feasible for the parcel; or the use consists of an interim public use which does not impair long-term agricultural viability, or consists of a permanent public use that will result in the production of recycled wastewater solely for agricultural irrigation and that limits and mitigates the impacts of facility construction on agriculture consistent with the requirements of Section 13.10.635; or

This finding can be made, in that facilities for the enhancement of fish and wildlife habitat is a principal permitted use on land zoned Commercial Agriculture or Agricultural Preserve. The deposition of soil onto the three local agricultural fields is a common agricultural practice and should have no impact on those three parcels.

3. Single family residential uses will be sited to minimize conflicts, and that all other uses will not conflict with commercial agricultural activities on site, where applicable, or in the area.
4. The use will be sited to remove no land from production (or potential production) if any non-farmable potential building site is available, or if this is not possible, to remove as little land as possible from production.

This finding can be made, in that the area to be restored has been located to remove the least amount of agricultural land from production as possible, and the least productive land, due to periodic flooding. The deposition of soil onto the three local agricultural fields is a common agricultural practice and should have no impact on those three parcels.

## Development Permit Findings

1. That the proposed location of the project and the conditions under which it would be operated or maintained will not be detrimental to the health, safety, or welfare of persons residing or working in the neighborhood or the general public, and will not result in inefficient or wasteful use of energy, and will not be materially injurious to properties or improvements in the vicinity.

This finding can be made, in that the project is located in an area designated for Agricultural, and generally surrounded by open space or agricultural fields. While there are a few homes upstream of the proposed restoration, the project is situated such that there should be no impact to those homes. The deposition of soil onto the three local agricultural fields is a common agricultural practice and should have no impact on those three parcels.

2. That the proposed location of the project and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the zone district in which the site is located.

This finding can be made, in that the proposed restoration project is a Principle Permitted Use in the Commercial Agriculture district, and will be maintained as open space. The deposition of soil onto the three local agricultural fields is a common agricultural practice and should have no impact on those three parcels.

3. That the proposed use is consistent with all elements of the County General Plan and with any specific plan which has been adopted for the area.

This finding can be made, in that the proposed restoration project is consistent with the use and density requirements specified for the Agriculture land use designation in the County General Plan. No specific plan has been developed for this area.

The proposed restoration project will not adversely impact the light, solar opportunities, air, and/or open space available to other structures or properties. The Residential Site and Development Standards Ordinance does not apply in that the restoration project does not involve the construction of any structures.

4. That the proposed use will not overload utilities and will not generate more than the acceptable level of traffic on the streets in the vicinity.

This finding can be made, in that the proposed restoration project will generate a limited temporary increase in traffic related to trucking soil from the restoration area to the three local fields for deposition. The project will be phased over two seasons and should not have a significant impact on local or state highways.

5. That the proposed project will complement and harmonize with the existing and proposed land uses in the vicinity and will be compatible with the physical design aspects, land use intensities, and dwelling unit densities of the neighborhood.

Application #: 10-0174  
APN: 059-011-06  
Owner: California State Parks

This finding can be made, in that the proposed habitat restoration project is located in and adjacent to existing riparian habitat.

6. The proposed development project is consistent with the Design Standards and Guidelines (sections 13.11.070 through 13.11.076), and any other applicable requirements of this chapter.

This finding is not applicable, in that the proposed restoration project does not involve the construction of any structures, and all development proposed will be habitat restoration consistent with the surrounding area.

## Conditions of Approval

### Exhibit A:

- I. This permit authorizes the construction of a habitat enhancement project. This approval does not confer legal status on any existing structure(s) or existing use(s) on the subject property that are not specifically authorized by this permit. Prior to exercising any rights granted by this permit including, without limitation, any construction or site disturbance, the applicant/owner shall:
  - A. Sign, date, and return to the Planning Department one copy of the approval to indicate acceptance and agreement with the conditions thereof.
  - B. Obtain a Grading Permit from the Santa Cruz County Building Official.
  - C. Submit proof that these conditions have been recorded in the official records of the County of Santa Cruz (Office of the County Recorder) within 30 days from the effective date of this permit.
- II. All construction shall be performed according to the approved plans for the Grading Permit. Prior to final building inspection, the applicant/owner must meet the following conditions:
  - A. All site improvements shown on the final approved Grading Permit plans shall be installed.
  - B. To ensure all conditions are incorporated into the project planning, the applicant shall conduct a pre-construction meeting. The meeting shall include environmental planning staff, the project biologist, project engineer, and project construction manager. The results of the surveys shall be presented at the preconstruction meeting.
  - C. Applicant shall obtain a Nesting Survey (prepared by a qualified biologist) prior to construction activities and removal of any trees, to ensure the project does not harm nesting birds in the area. If the biologist identifies active nests within the area impacted by the project, a buffer zone shall be set, dependent upon the species of bird, and no disturbance activities shall be allowed within that buffer until the birds have fledged.
    1. This requirement is not necessary if the tree removal is scheduled between August 16 through February 14, outside of the nesting season for birds.
  - D. Applicant shall have a California red-legged frog survey conducted by a qualified biologist within 48 hours prior to construction activities and removal of any trees, to ensure that the project does not harm any red-legged frogs in the area. If red-legged frogs are found during the course of the survey no disturbance shall occur without consultation from the US Fish and Wildlife Service.

- E. Prior to any site disturbance, the project biologist shall conduct an informational training session with all personnel that includes identification of California red-legged frogs and dusky-footed wood rats, protected status, measures to avoid harm, and measures to be implemented should any be encountered within the work area. No worker shall be allowed to work on this project without having attended such a session.
- F. Pursuant to Sections 16.40.040 and 16.42.100 of the County Code, if at any time during site preparation, excavation, or other ground disturbance associated with this development, any artifact or other evidence of an historic archaeological resource or a Native American cultural site is discovered, the responsible persons shall immediately cease and desist from all further site excavation and notify the Sheriff-Coroner if the discovery contains human remains, or the Planning Director if the discovery contains no human remains. The procedures established in Sections 16.40.040 and 16.42.100, shall be observed.

### III. Operational Conditions

- A. In the event that future County inspections of the subject property disclose noncompliance with any Conditions of this approval or any violation of the County Code, the owner shall pay to the County the full cost of such County inspections, including any follow-up inspections and/or necessary enforcement actions, up to and including permit revocation.
- B. State Parks shall conduct annual monitoring and maintenance of the restoration area to ensure success of plantings and that non-native invasive vegetation does not inundate the site. A n annual report shall be submitted to the Planning Department for five years or until the State Park biologist and the County Planning Department concur that success has been met. The first report shall establish success criteria.

### IV. As a condition of this development approval, the holder of this development approval ("Development Approval Holder"), is required to defend, indemnify, and hold harmless the COUNTY, its officers, employees, and agents, from and against any claim (including attorneys' fees), against the COUNTY, it officers, employees, and agents to attack, set aside, void, or annul this development approval of the COUNTY or any subsequent amendment of this development approval which is requested by the Development Approval Holder.

- A. COUNTY shall promptly notify the Development Approval Holder of any claim, action, or proceeding against which the COUNTY seeks to be defended, indemnified, or held harmless. COUNTY shall cooperate fully in such defense. If COUNTY fails to notify the Development Approval Holder within sixty (60) days of any such claim, action, or proceeding, or fails to cooperate fully in the defense thereof, the Development Approval Holder shall not thereafter be responsible to defend, indemnify, or hold harmless the COUNTY if such failure to notify or cooperate was significantly prejudicial to the Development Approval Holder.

- B. Nothing contained herein shall prohibit the COUNTY from participating in the defense of any claim, action, or proceeding if both of the following occur:
1. COUNTY bears its own attorney's fees and costs; and
  2. COUNTY defends the action in good faith.
- C. Settlement. The Development Approval Holder shall not be required to pay or perform any settlement unless such Development Approval Holder has approved the settlement. When representing the County, the Development Approval Holder shall not enter into any stipulation or settlement modifying or affecting the interpretation or validity of any of the terms or conditions of the development approval without the prior written consent of the County.
- D. Successors Bound. "Development Approval Holder" shall include the applicant and the successor(s) in interest, transferee(s), and assign(s) of the applicant.

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Minor variations to this permit which do not affect the overall concept or density may be approved by the Planning Director at the request of the applicant or staff in accordance with Chapter 18.10 of the County Code.

**Please note: This permit expires three years from the effective date listed below unless the conditions of approval are complied with and the use commences before the expiration date.**

Approval Date: \_\_\_\_\_

Effective Date: \_\_\_\_\_

Expiration Date: \_\_\_\_\_

\_\_\_\_\_  
Paia Levine  
Principal Planner

\_\_\_\_\_  
Matt Johnston  
Project Planner

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Appeals: Any property owner, or other person aggrieved, or any other person whose interests are adversely affected by any act or determination of the Planning Commission, may appeal the act or determination to the Board of Supervisors in accordance with chapter 18.10 of the Santa Cruz County Code.



**COPY**

CEQA #9232

State of California  
Department of Parks and Recreation

**NOTICE OF EXEMPTION**

TO: Office of Planning and Research  
1400 Tenth Street  
Sacramento, CA 95814

FROM: Department of Parks and Recreation  
P.O. Box 942896  
Sacramento, CA 94296-0001

**PROJECT TITLE:** Laguna Creek Habitat Enhancement

**COUNTY:** Santa Cruz

**PROJECT LOCATION:** Laguna Creek Road at State Highway #1

**PARK UNIT:** Coast Dairies Property adjacent to Wilder Ranch State Park

**DESCRIPTION OF THE NATURE AND PURPOSE OF PROJECT:**

Restore and enhance an approximately 400 linear foot section of land adjacent to Laguna Creek located on the Coast Dairies property to improve flood capacity and sensitive species habitat. Excavate approximately 13,500 cubic yards of soil to lower the elevation of the area; create three backwater stream channels each measuring about 10 feet by 113 feet; and create approximately 1.5 acres of permanent and ephemeral wetlands. Re-vegetate area with native riparian plants.

**PUBLIC AGENCY APPROVING THE PROJECT:** California Department of Parks and Recreation

**NAME OF DIVISION OR DISTRICT CARRYING OUT THE PROJECT:** Santa Cruz District

**EXEMPT STATUS:**

X Categorical Exemption Classes: 1,4 Sections: 15301, 15304

**REASONS WHY PROJECT IS EXEMPT:**

Project consists of the minor alteration of existing public facilities or topographic features involving no expansion of use beyond that existing at the time of the lead agency's determination and minor alterations in the condition of land and vegetation which do not involve removal of healthy, mature, scenic trees except for forestry purposes; included as a "streambed restoration" and "resource management project" in the California Department of Park and Recreation's list of exempt activities in accordance with CCR 15300.4

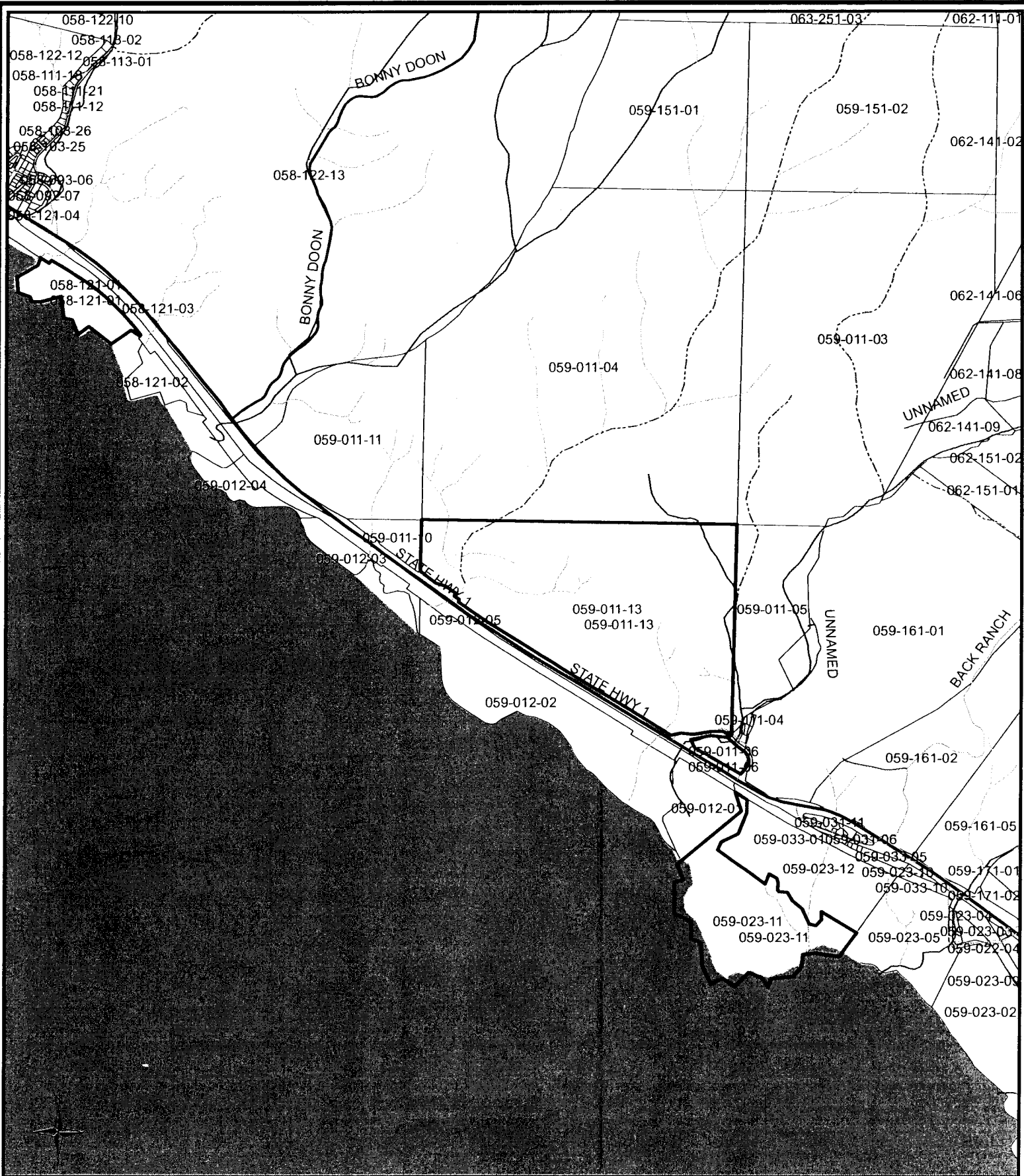
**CONTACT:** Victor Roth  
Santa Cruz District

**TELEPHONE:** 831) 335-6385  
**EMAIL:** vroth@parks.ca.gov

  
Chet Bardo  
District Superintendent

Date JUNE 9, 2010

**EXHIBIT D**



# Assessor's Map

EXHIBIT E

## Legend

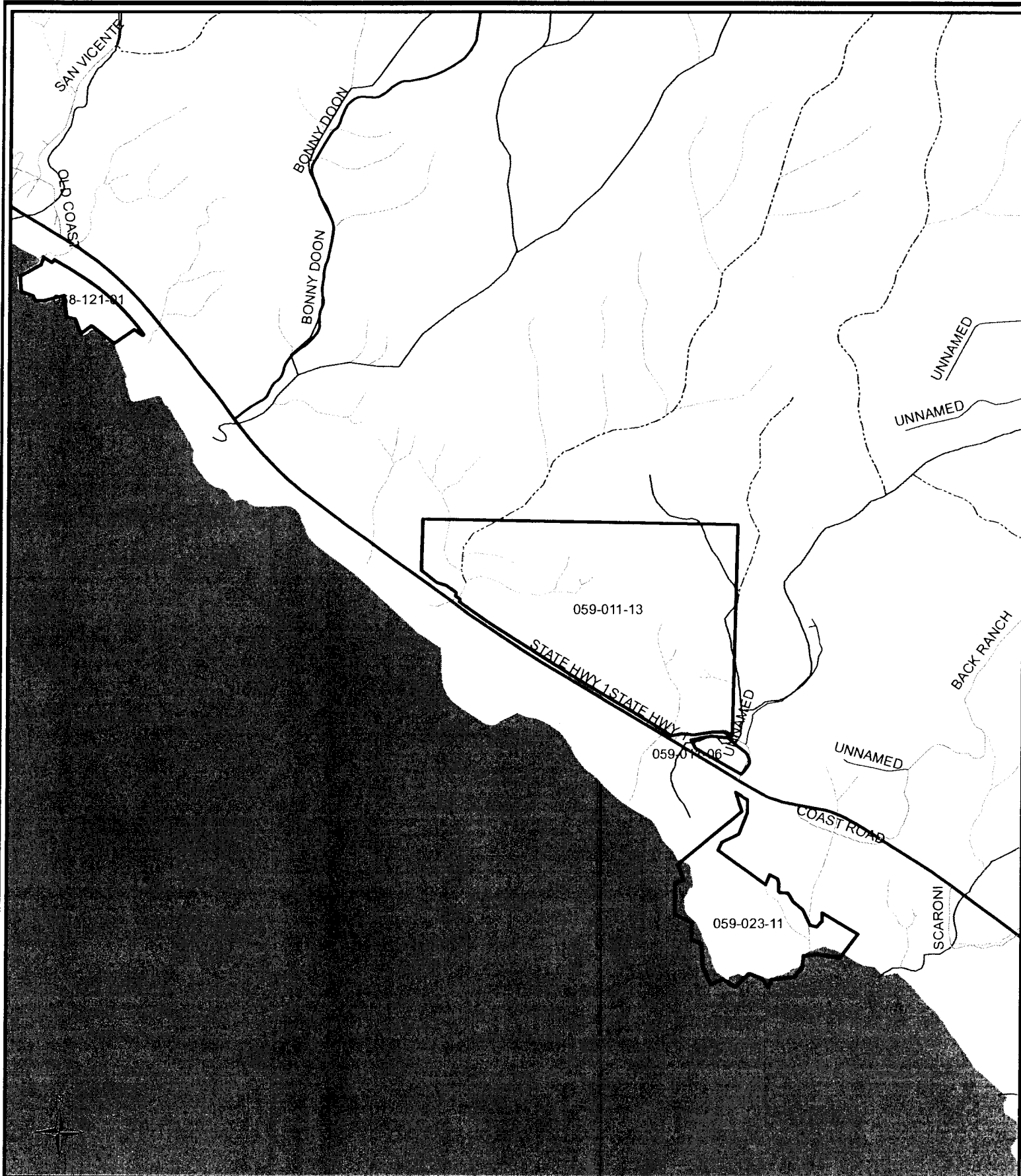
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- APN 059-011-13
- APN 059-011-08
- APN 059-023-11

0 1,250 2,500 5,000 Feet

0 0.15 0.3 0.45 0.6 Miles







County of Santa Cruz  
Planning Department  
Map Created  
July 2010



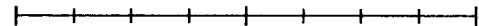
# Location Map

# EXHIBIT E

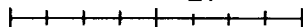
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-  APN 059-011-13
-  APN 059-011-06
-  APN 059-023-11

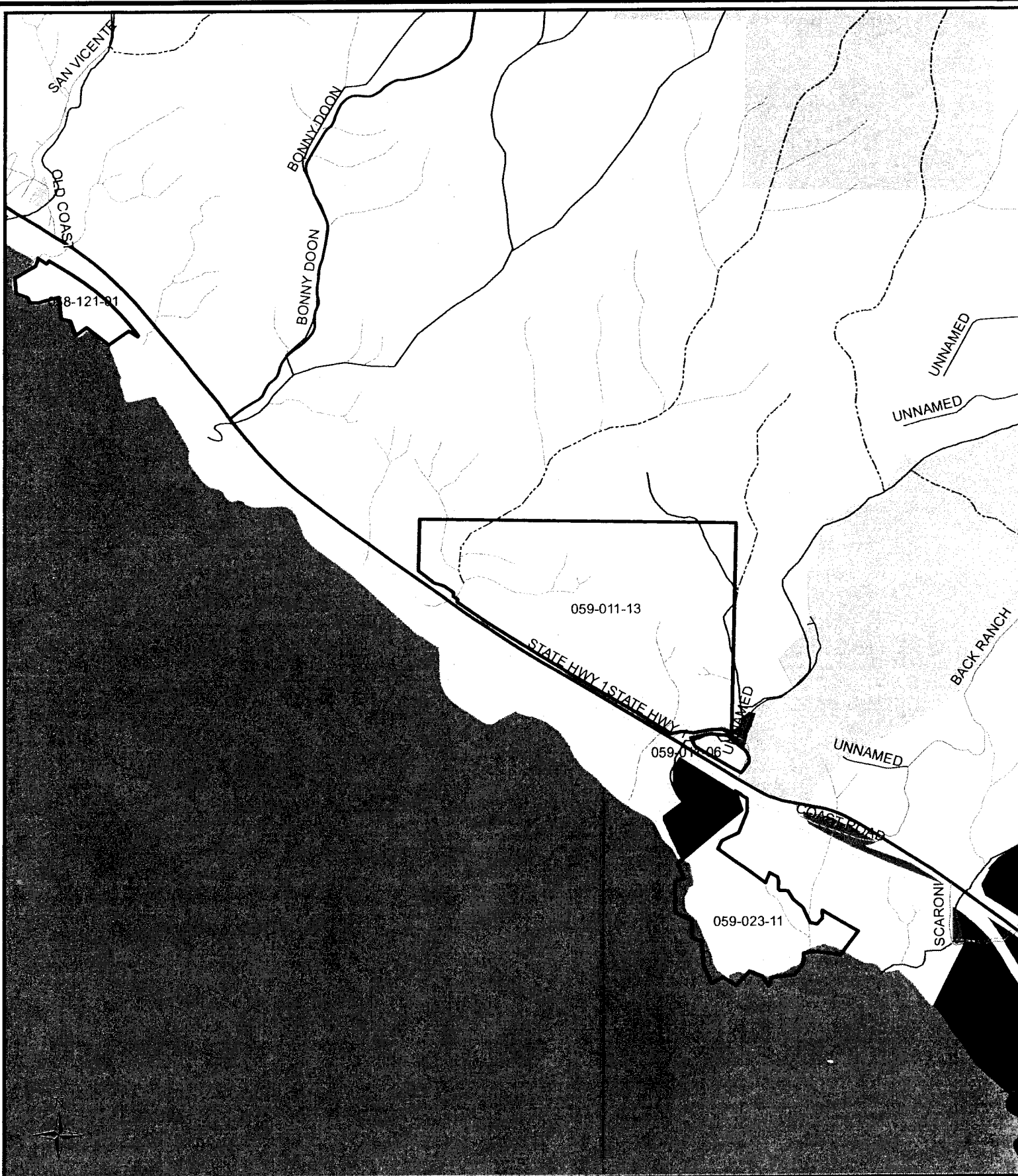
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0 0.15 0.27 0.6 Miles



County of Santa Cruz  
Planning Department  
Map Created  
July 2010



- Legend**
- APN 058-121-01
  - APN 059-011-13
  - APN 059-011-06
  - APN 059-023-11
  - AGRICULTURE
  - AGRICULTURE COMMERCIAL
  - AGRICULTURE RESIDENTIAL
  - PARK
  - TIMBER PRODUCTION
  - BEACH

## Zoning Map

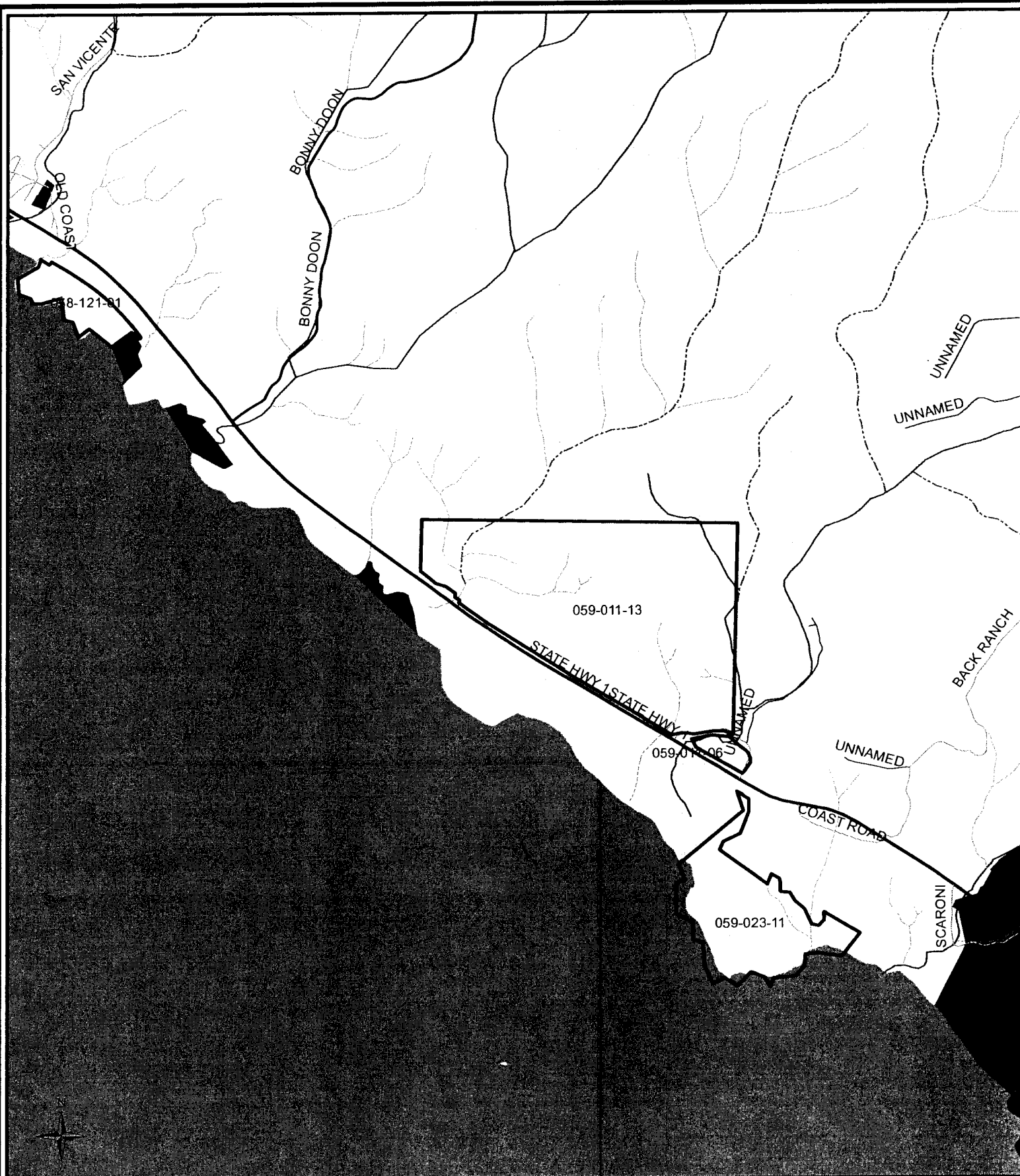
## EXHIBIT E

0 1,250 2,500 5,000 Feet

0 0.15 0.28 0.6 Miles



County of Santa Cruz  
Planning Department  
Map Created  
July 2010



Legend	
	APN 058-121-01
	APN 059-011-13
	APN 059-011-06
	APN 059-023-11
	Agriculture
	Parks and Recreation
	Resource Conservation

## General Plan Map

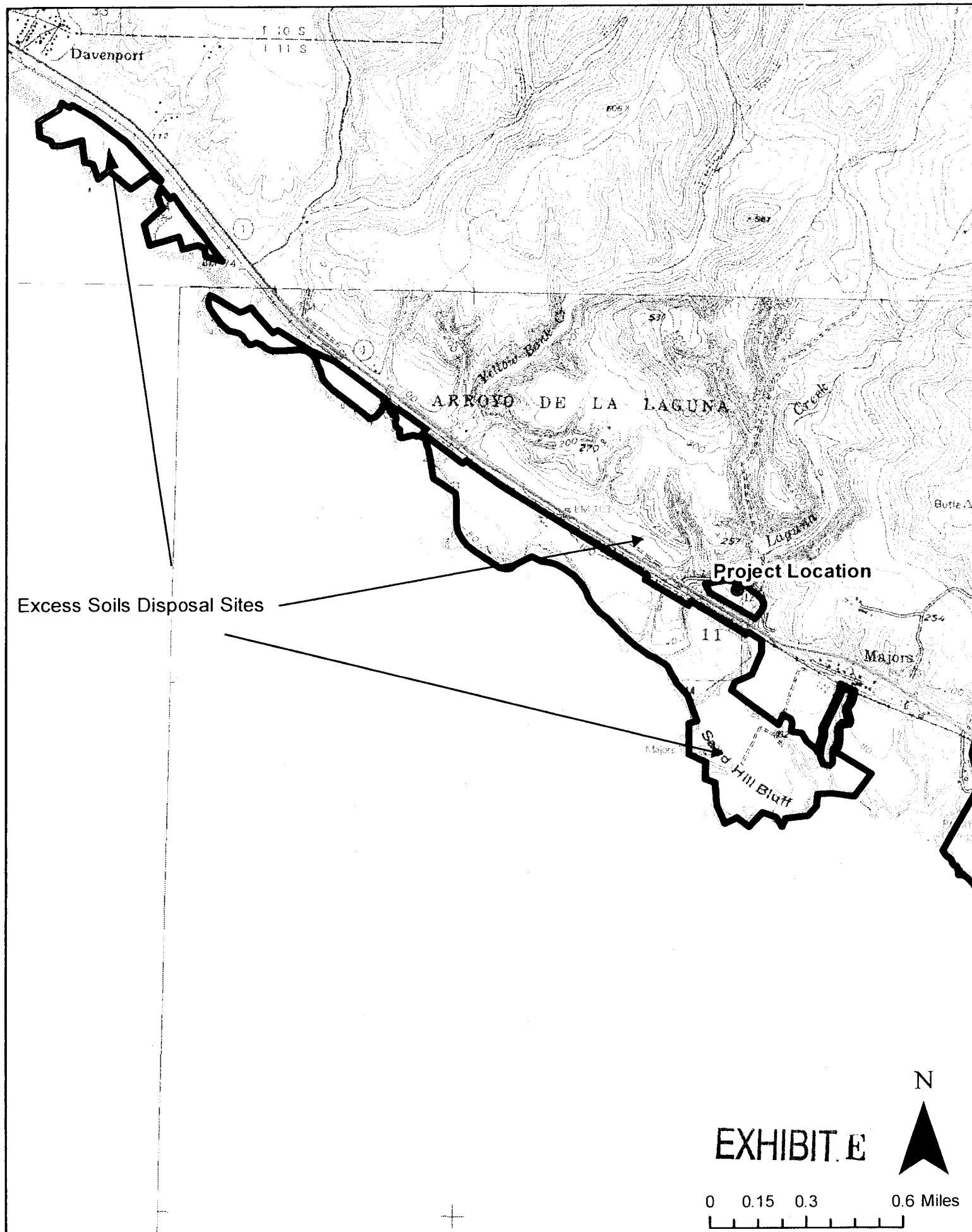
0 1,250 2,500 5,000 Feet

0 0.15 0.3 - 29 - 0.6 Miles

# EXHIBIT E



County of Santa Cruz  
Planning Department  
Map Created  
July 2010



Map of Laguna Creek Habitat Enhancement Project



**C O U N T Y   O F   S A N T A   C R U Z**  
**DISCRETIONARY APPLICATION COMMENTS**

**Project Planner:** Matt Johnston  
**Application No.:** 10-0174  
**APN:** 059-011-06

**Date:** August 2, 2010  
**Time:** 11:05:23  
**Page:** 1

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**Environmental Planning Completeness Comments**

===== REVIEW ON JUNE 8, 2010 BY CAROLYN I BANTI =====

Completeness Comments ++ First Review ++

Please extend the surveyed topographic data to include the area in the vicinity of the southern property line, including the Caltrans ditch and 40-feet above the toe-of-slope for the adjacent embankment.

It appears the project scope includes grading beyond the property boundary, within the Caltrans right-of-way. Please submit an owner-agent agreement form and any permits (encroachment or otherwise) authorizing the activities proposed on the adjacent property.

Please elaborate on the current flow in the existing Caltrans ditch. How/where does the ditch outlet? If the ditch does not currently drain, how will the proposed outlet affect the channel with respect to flow velocities and potential for erosion? Please note: If there is a possibility for the proposed grading to affect the Caltrans embankment, a formal soils report may be required to provide mitigation recommendations.

Please submit the hydrologic design documents for use in review. See DPW Drainage Miscellaneous Comments for report review comments.

Please submit grading calculations, along with all supporting documentation (plan areas cross sections, etc.) Note: The grading estimate given in the project description varies by 6,000 cubic yards; please provide a more accurate estimate for preliminary grading approval.

**Environmental Planning Miscellaneous Comments**

===== REVIEW ON JUNE 8, 2010 BY CAROLYN I BANTI =====

Compliance Comments ++ First Review ++

The soils analysis indicates that due to soil conditions, all sideslopes must be a maximum 3:1 gradient. There are multiple locations on the grading plan where cut slopes exceed this threshold (ie: drainage path from existing Caltrans ditch, pool sideslopes). Please revise plans to conform to the recommended 3:1 gradient.

The submitted erosion control plan shows erosion control fabric over the flat areas of the created flood plain, and no erosion treatment in the pools/channels. A proper erosion control plan is imperative to the success of the project, as even under ideal construction conditions sufficient vegetative cover to prevent erosion will not be established prior to the rainy season. Please provide erosion control details for all disturbed areas, along with quantitative data that shows the erosion control will be sufficient to keep the soil in place when subjected to anticipated stream velocities.

Please submit a map of specific properties (with APNs) to receive offhauled

## Discretionary Comments - Continued

Project Planner: Matt Johnston  
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material, along with the general limits of the soil dispersal area on each property. Any properties receiving over 100 CY, or on which the material will be spread greater than 2-feet in depth will require an agricultural grading or grading permit, as applicable. Please see County Code Chapter 16.20 for grading application requirements.

Misc. Comments/Conditions of Approval ++ First Review ++

The County of Santa Cruz Environmental Planning division must be notified should dewatering become necessary during construction. A registered civil engineer shall prepare dewatering system plans and submit them to Environmental Planning for acceptance. The civil engineer of record shall inspect the installation of the dewatering system and conduct subsequent weekly inspections to ensure proper functioning of the system.

Provide accurate locations of the utilities to be relocated on the grading permit plans.

The project documentation submitted with the plans indicates that if pumping becomes necessary to achieve acceptable construction conditions, wastewater will be discharged from the construction area to an upland location where sediment-laden water will not drain back to the stream channel. Please locate this area on the plans. If the same party does not own this area, please provide an owner-agent agreement authorizing this activity.

### Dpw Drainage Completeness Comments

LATEST COMMENTS HAVE **NOT YET** BEEN SENT TO PLANNER FOR THIS AGENCY

===== REVIEW ON MAY 27, 2010 BY DAVID W SIMS =====

Policy Compliance Items: None

Information Items: None

Please see miscellaneous comments.

### Dpw Drainage Miscellaneous Comments

LATEST COMMENTS HAVE **NOT YET** BEEN SENT TO PLANNER FOR THIS AGENCY

===== REVIEW ON MAY 27, 2010 BY DAVID W SIMS =====

Miscellaneous:

1) A review of the flood frequency curve (Fig.3) presented in the Design Basis Memo (3/30/2010) from Balance Hydrologics finds that the project design hydrology is suspect, having uncharacteristically low flow values for flood recurrence intervals of 5 years or greater. This is important because it drives the risk assessment for mobilization of large woody debris that could block the Hwy 1 culvert, and may influence the grading elevations that the project desires to establish relative to predicted (possibly erroneous) flood line elevations. The newly constructed floodplain is being proposed at approximately 15 ft. elevation, which for the



## Discretionary Comments - Continued

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predicted 10 year flood event would create approximately 3 ft. depth flood flows across the floodplain. If the hydrology is in error the flood flows could be somewhat deeper, more energetic, with higher velocities and shear stresses than anticipated. The Stormwater reviewer is supplying (via the Project Planner) to Balance Hydrologics for their review, additional hydrology work performed for adjacent Vicente Creek, Scott Creek, and regional flood frequency boundary results for many USGS gages throughout the County. Results derived from this additional data suggests that the flood frequency curve could be expected to have flow values 100% to 200% higher than presently estimated for large storm events, exceeding the 90% confidence limit that was statistically established in the project study. There were no problems with the flow values for return frequencies of 2 years or less.

2) Final hydrologic and hydraulic studies and calculations should be stamped, signed and dated by a registered civil engineer.

3) Grading and drainage channel construction is being proposed along the property boundary with State Hwy 1. Some of the work is shown actually occurring on Cal Trans right-of-way. The applicant should show that they have obtained the necessary approvals from Cal Trans to conduct these drainage alterations across the property line.

4) The channel work extending onto Cal Trans right-of-way does not show portions of the channel side slopes and bottom width as being stabilized with erosion control fabric and hydro-seed. Portions of this channel are at higher elevation (13 to 18 ft) than the planned extended ponding depths of the back water channels and would need vegetative protection established.

5) It is not clear on the plans how the spring fed tributary routes (or will be routed) to the backwater channel(s) being constructed. Please clarify.

6) Project construction specifications for Earthwork call for 90% compaction of any fill soils. This is a degree of compaction typical of utility trench backfill and may prove to be a density that is not appropriate for a riparian zone, inhibiting good plant root penetration, infiltration, aeration, etc... Inadvertent machinery compaction in cut zones should be addressed in procedural specifications as well. Please review.

7) Construction activity resulting in a land disturbance of one acre or more, or less than one acre but part of a larger common plan of development or sale must obtain the Construction Activities Storm Water General NPDES Permit from the State Water Resources Control Board. Construction activity includes clearing, grading, excavation, stockpiling, and reconstruction of existing facilities involving removal and replacement. For more information see:  
<http://www.swrcb.ca.gov/stormwtr/constfaq.html>

EXHIBIT F

Archaeological Survey Report (ASR)  
And Finding of No Adverse Effect  
For the Laguna Creek Habitat Enhancement Project,  
Coast Dairies State Park, Santa Cruz County, California

By

Mark G.Hylkema  
Santa Cruz District Archaeologist  
California State Parks

July 2010

EXHIBIT G

**Archaeological Survey Report and Finding of No Adverse Affect  
For the Proposed Laguna Creek Habitat Enhancement Project,  
Santa Cruz County Coast, California**

**Project Summary:**

This project proposes to improve a portion of the lower Laguna Creek floodplain and restore habitat for endangered species, and is within Coast Dairies State Park in Santa Cruz County, California (see Map 1). The work is part of the resource management program in the Santa Cruz District of State Parks (CSP) and is an effort to restore natural stream processes on the north Coast of Santa Cruz County within this important watershed. Restoration work will involve the removal of substantial amounts of soil to create stream overflow basins.

Because the proposed conservation project is operating under federal permit (Section 404), on properties under the jurisdiction of California State Parks, Section 106 of the National Historic Preservation Act of 1966 applies. Section 106 establishes procedures for the evaluation of Historic Properties and determining the potential for listing on the National Register of Historic Places. In addition to Section 106, State Laws (PRC 5024), and Park policies mandate evaluation and mitigation of potential adverse effects to historic properties. Historic properties, in regards to the Laguna Creek Habitat Restoration Project, include both prehistoric and historic archaeological features.

Treatment and determination of significance of historic properties, involves consultation with the Advisory Council on Historic Preservation (ACHP) through the State Office of Historic Preservation (OHP), as well as other public and community members directly affected by projects using federal funds or permits. In addition, State Park policies and provisions pertaining to cultural resources established under the California Environmental Quality Act (CEQA) require that any potentially adverse effects from project development must be identified and evaluated so that impacts to significant cultural resources can be avoided or mitigated to a level of insignificance.

The archaeological survey described in this report involved subsurface testing and found positive evidence of a previously un-recorded Late Period to early historic Mission Period archaeological site within the project Area of Direct Impact (ADI). However, the testing determined that the site, which was composed of a very thin lens of dietary marine shell, charcoal and occasional piece of Monterey chert debitage lacks sufficient integrity to meet the necessary criteria for establishing significance as set forth under Criterion D of Section 106. Therefore, the findings of this ASR have concluded that the project as proposed will not have an Adverse Affect to archaeological resources. Nonetheless, all subsurface excavations for the proposed restoration project will be monitored by a qualified archaeologist, and samples of the deposit will be recovered for archival purposes.

**EXHIBIT G**

**Conclusion and Finding of No Adverse Affect:**

The archaeological deposit described in this ASR lacks sufficient integrity to qualify as significant under Section 106, Criterion D.

The volume of shell evident from the sub-surface testing effort is very limited, and the data potential for this deposit has been met through field observation and radiometric assay. Therefore, this evaluation has concluded that the Laguna Creek Habitation Enhancement Project *will not* have an adverse affect to archaeological resources.

If the project should change to include areas beyond the Area of Potential Effect evaluated in this ASR, then further archaeological review will be necessary.

All earthmoving activities within the project APE must be monitored by a qualified archaeologist. In the unlikely event that inadvertent finds are made, all work at the location of the find must temporarily halt until the archaeologist evaluates the significance of the find and provides recommendations leading to mitigation or avoidance.