



Staff Report to the Zoning Administrator

Application Number: **121250**

Applicant: Soquel Creek Water District
Owner: California State Parks
APN: 038-201-01; 042-102-01

Agenda Date: March 1, 2013
Agenda Item #: 3
Time: After 9:00 a.m.

Project Description: Proposal to recognize the abandonment of two clusters of permitted monitoring wells and the installation of two replacement well clusters on two separate parcels within the PR zone district. Requires an Amendment to Coastal Development Permit 3-82-59.

Location: Properties located at Seacliff State Beach, Aptos (APNs: 038-201-01 & 042-102-01).

Supervisory District: 2nd District (District Supervisor: Zack Friend)

Permits Required: Coastal Development Permit

Staff Recommendation:

- Approval of Application 121250, based on the attached findings and conditions.

Exhibits

- | | |
|--|------------------------------|
| A. Project plans | E. Location, Zoning and |
| B. Findings | General Plan Maps |
| C. Conditions | F. Comments & Correspondence |
| D. Categorical Exemption (CEQA
determination) | |

Parcel Information

Parcel Size:	N/A
Existing Land Use - Parcel:	State Beach
Existing Land Use - Surrounding:	Mixed residential neighborhoods, Pacific Ocean
Project Access:	Creek Drive & State Park Drive
Planning Area:	Aptos
Land Use Designation:	O-R (Parks, Recreation, and Open space)
Zone District:	PR (Parks, Recreation, and Open space)
Coastal Zone:	<u>X</u> Inside ___ Outside
Appealable to Calif. Coastal Comm.	<u>X</u> Yes ___ No

Services Information

Urban/Rural Services Line: X Inside Outside
Water Supply: Soquel Creek Water District
Sewage Disposal: Santa Cruz County Sanitation District
Fire District: Aptos/La Selva Fire Protection District
Drainage District: Zone 6 Flood Control District

History

An administrative Coastal Development Permit (3-82-59) was issued by the California Coastal Commission on 4/20/82 for eight different monitoring well sites in the Soquel Creek Water District and the City of Capitola. This Coastal Development Permit application (121250) is an amendment to the original Coastal Development Permit (3-82-59).

Project Setting & Description

This application is a proposal to recognize the demolition of wells at two of the eight monitoring sites (approved under Coastal Development Permit 3-82-59) and the installation of replacement monitoring wells at these two sites. Both monitoring well sites are located on Seacliff State beach property. The first monitoring well site is located at the end of Creek Drive in the Rio Del Mar flats. The monitoring well site is located beyond the end of the road along the side of an existing pedestrian path to the beach. The second monitoring well site is accessed from State Park Drive and located within the Seacliff State Beach parking area, adjacent to an existing restroom facility. Both sites are located within State Parks property between the Pacific Ocean and existing single family residential neighborhoods.

Zoning & General Plan Consistency

The project sites are located in the PR (Parks, Recreation, and Open space) zone district, a designation which allows public facilities uses. The proposed replacement monitoring wells are an approved use on the subject properties. The PR zoning is consistent with the site's (O-R) Parks, Recreation, and Open space General Plan designation.

Local Coastal Program Consistency

The proposed replacement monitoring wells are in conformance with the County's certified Local Coastal Program, in that the wells replace existing monitoring wells located in the same location with the same purpose and use. The wells are used for monitoring purposes only and will not be used to add water for the Soquel Creek Water District's water supply. No increase in water supply or service availability will result from the replacement monitoring wells. The monitoring wells are located below ground and will not create any visual impact within the beach viewshed. The monitoring wells will not interfere with public access to the beach, ocean, or other nearby body of water.

Categorical Exemption

A Categorical Exemption for the California Environmental Quality Act was prepared by the Soquel Creek Water District, on December 20, 2011, as the lead agency for the proposed project. The Categorical Exemption (Class 2 - Replacement or Reconstruction) was filed with the Clerk of the Board on December 22, 2011 and the notice period for this filing ended on January 22, 2012.

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.

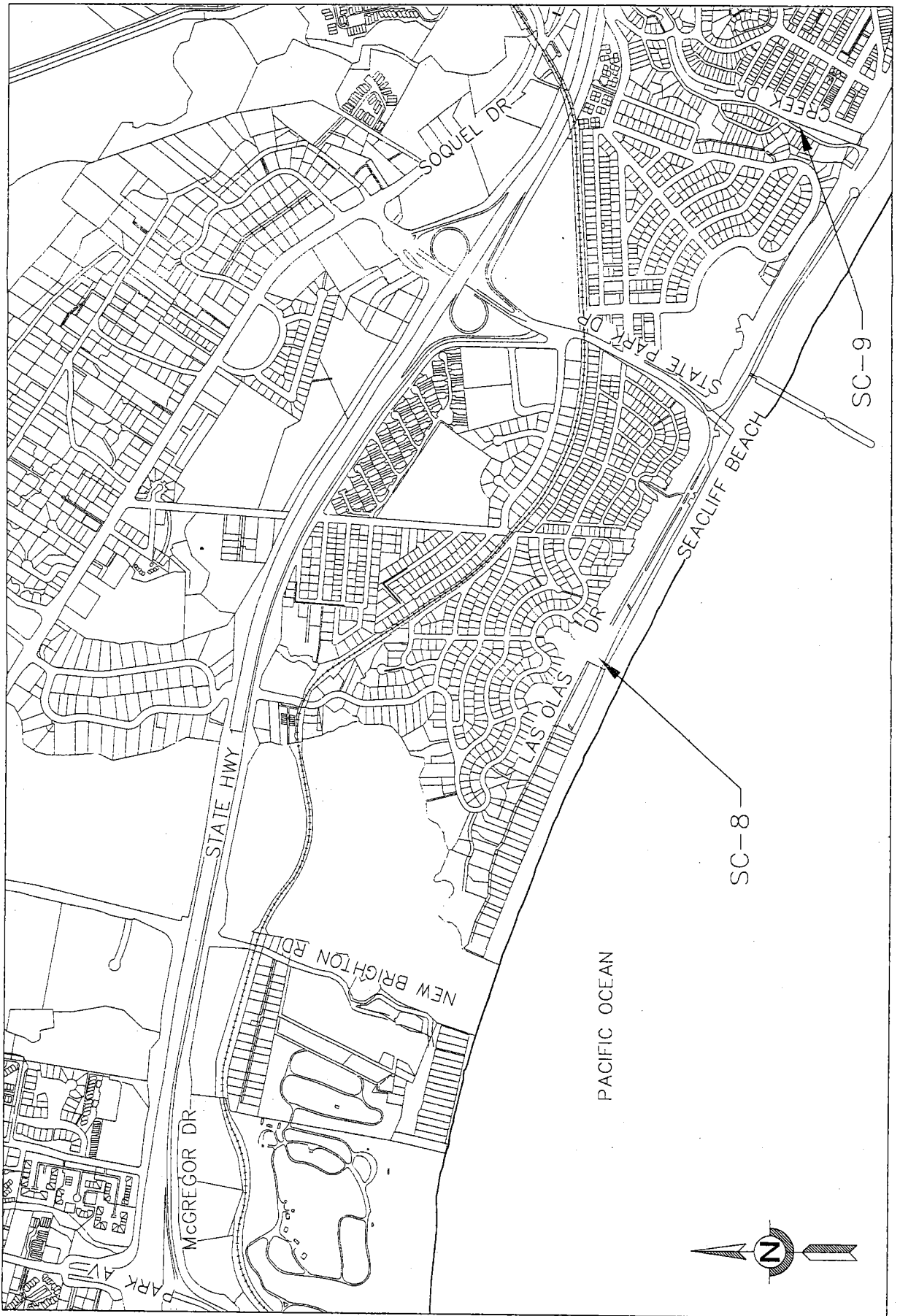
Staff Recommendation

- **APPROVAL** of Application Number **121250**, 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

Report Prepared By: Randall Adams
Santa Cruz County Planning Department
701 Ocean Street, 4th Floor
Santa Cruz CA 95060
Phone Number: (831) 454-3218
E-mail: randall.adams@co.santa-cruz.ca.us



Location Map

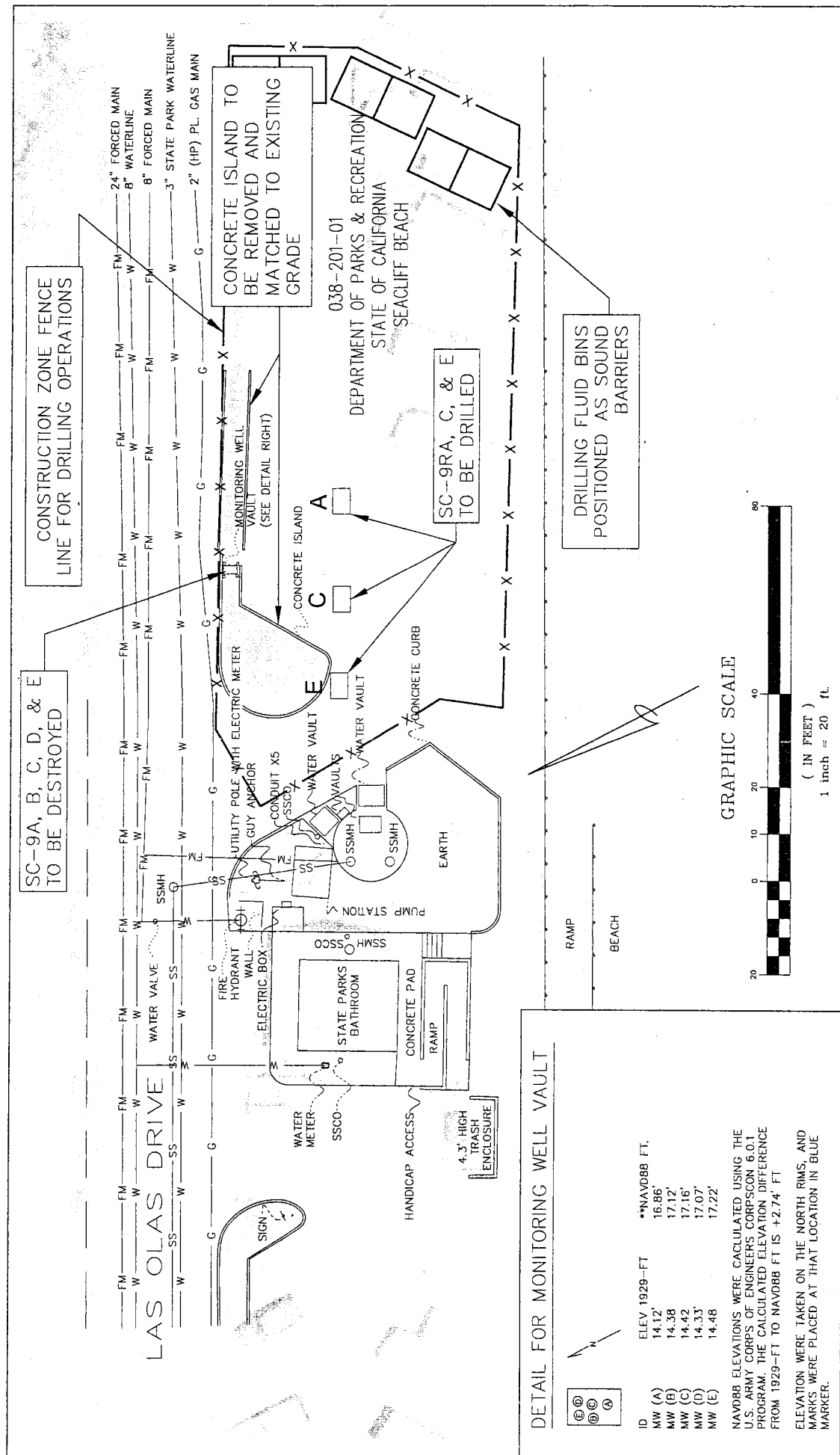
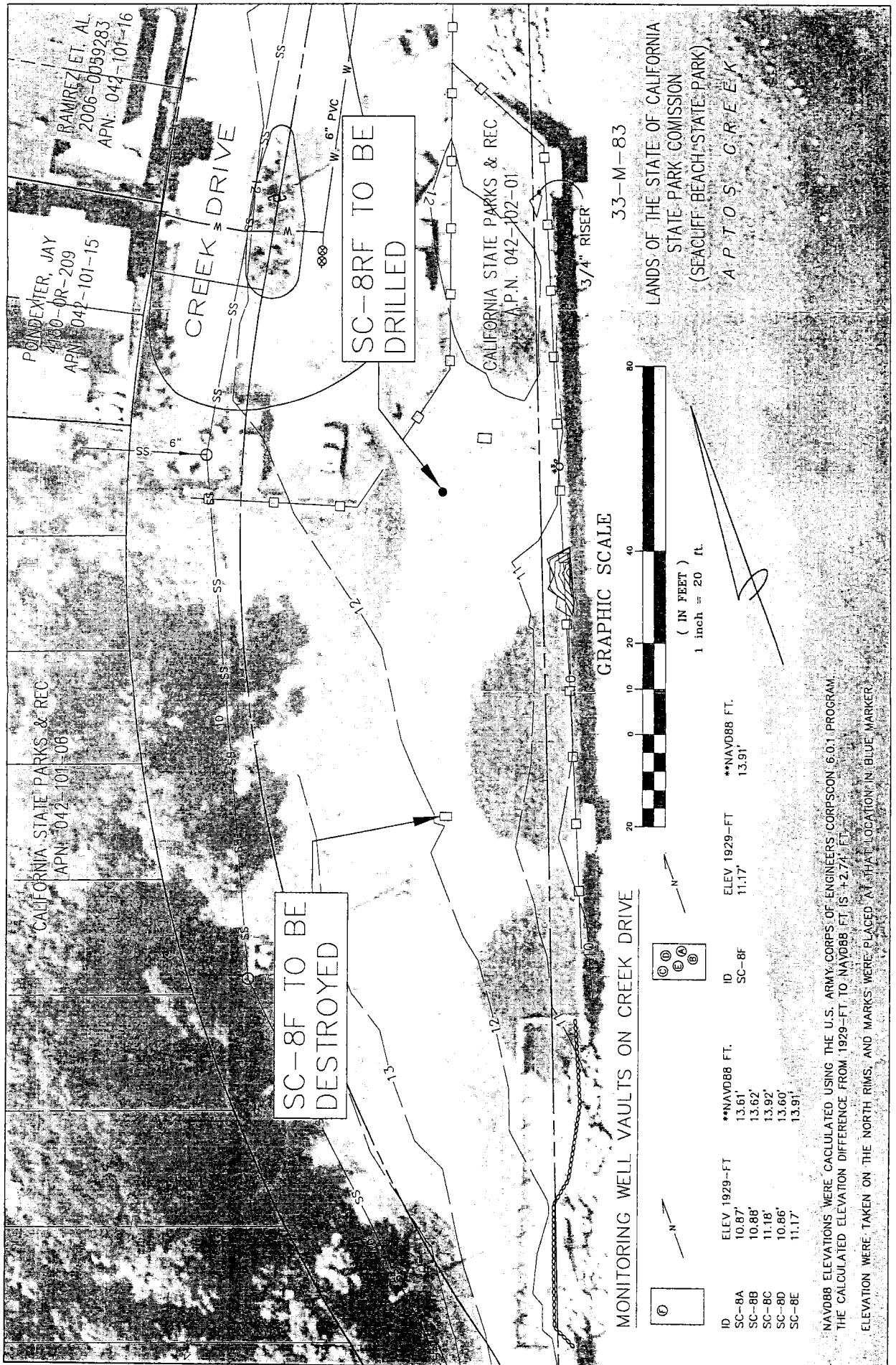


Figure 3: SC-9 Location of Wells to be Destroyed and Replaced



LANDS OF THE STATE OF CALIFORNIA
STATE PARK COMMISSION
(SEACLIFF BEACH STATE PARK)
APTO S C R E E K

33-M-83

GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.

MONITORING WELL VAULTS ON CREEK DRIVE



ID	ELEV 1929--FT	**NAVD88 FT.	ID	ELEV 1929--FT	**NAVD88 FT.
SC-8A	10.87'	13.61'	SC-8F	11.17'	13.91'
SC-8B	10.88'	13.62'			
SC-8C	11.18'	13.92'			
SC-8D	10.86'	13.60'			
SC-8E	11.17'	13.91'			

NAVD88 ELEVATIONS WERE CALCULATED USING THE U.S. ARMY CORPS OF ENGINEERS' CORPSCON 6.0.1 PROGRAM.
THE CALCULATED ELEVATION DIFFERENCE FROM 1929--FT TO NAVD88 FT IS +2.71' FT.
ELEVATION WERE TAKEN ON THE NORTH RIMS, AND MARKS WERE PLACED AT THAT LOCATION IN BLUE MARKER

Site Map: SC-8F Aptos Creek Monitoring Wells

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.

The project sites are located in the PR (Parks, Recreation, and Open space) zone district, a designation which allows public facilities uses. The proposed replacement monitoring wells are an allowed use on the subject properties, as approved by Coastal Development Permit 3-82-59. The PR zoning is consistent with the site's (O-R) Parks, Recreation, and Open space General Plan designation.

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 monitoring wells are located in the same locations where they had been previously installed.

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 can be made, in that the monitoring wells are located below ground and will not create any visual impact within the beach viewshed.

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 monitoring wells are located below ground and will not interfere with public access to the beach, ocean, or other nearby body of water.

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

This finding can be made, in that the monitoring wells are located below ground and will not create any visual impact within the beach viewshed or interfere with public access to the beach, ocean, or other nearby body of water. Additionally, public facilities uses are allowed uses in the PR (Parks, Recreation, and Open space) zone district, as well as the General Plan and Local Coastal Program land use designation.

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 that allows public facilities uses. Construction will comply with prevailing building technology, the California Building Code, the County Building ordinance, and all applicable regulations to insure the optimum in safety and the conservation of energy and resources.

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 location of the replacement monitoring wells and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the PR (Parks, Recreation, and Open space) zone district. The existing monitoring wells are an allowed use on the subject properties, as approved by Coastal Development Permit 3-82-59.

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 public facilities use is allowed within the PR (Parks, Recreation, and Open space) zone district, as approved by Coastal Development Permit 3-82-59. The PR zoning is consistent with the site's (O-R) Parks, Recreation, and Open space General Plan designation.

No specific plan has been adopted for the area.

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 replacement monitoring wells would be located below ground and would not be a use that generates traffic.

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.

This finding can be made, in that the monitoring wells are located below ground and will not create any visual impact within the beach viewshed.

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 can be made, in that the proposed replacement monitoring wells will be located below ground and will not affect the aesthetic qualities of the surrounding properties or visually impact available open space in the surrounding area.

Conditions of Approval

Exhibit A: Project Plans "Location of Wells to be Destroyed and Replaced: SC-8 & SC-9", 3 sheets, prepared by Soquel Creek Water District.

- I. This permit authorizes the construction of replacement monitoring wells as indicated in the approved Exhibit "A" for 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 any required permits or approvals from the County Department of Environmental Health Services. Comply with all requirements of the Department of Environmental Health Services and pay all applicable fees.
 - C. 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.
- II. 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.
- III. 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, its 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.

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: _____

Wanda Williams
Deputy Zoning Administrator

Randall Adams
Project Planner

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



SOQUEL CREEK
WATER DISTRICT

Board of Directors

Dr. Thomas R. LaHue, *President*
Bruce Daniels, *Vice President*
Dr. Don Hoernschemeyer
Dr. Bruce Jaffe
Daniel F. Kriege

Laura D. Brown, *General Manager*

December 22, 2011

Clerk of the Board
County of Santa Cruz
701 Ocean Street, Room 500
Santa Cruz, CA 95060

Subject: Notice of Categorical Exemption – Monitoring Wells at locations:
Las Olas Drive, Aptos; Creek Drive, Aptos; Sumner Ave, Aptos; 42nd Ave.,
Capitola and Cornwell Road, Soquel, CWO 10-006

Dear Clerk of the Board:

Enclosed please find the administrative fee and a Notices of Exemption to be filed with your office according to our CEQA Guidelines for the following project for which Categorical Exemptions have been prepared and accepted by the Board of Directors of the Soquel Creek Water District at their regular meeting of December 20, 2011.

Monitoring Well Installation and Replacement Project (various locations)

Should you have any questions, please contact our Engineering Manager Mr. Taj Dufour at 475-8501 ext. 123.

Sincerely,
SOQUEL CREEK WATER DISTRICT

Denise Alexander
Executive Assistant

Enclosures

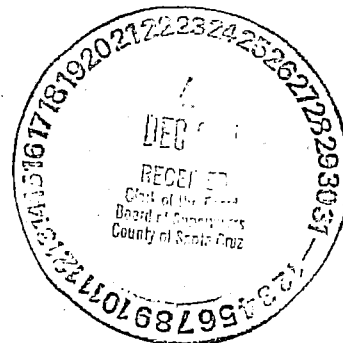


EXHIBIT D

PRELIMINARY ENVIRONMENTAL ASSESSMENT**SOQUEL CREEK WATER DISTRICT**

**P. O. Box 1550
Capitola, CA 95010**

Name of Project: Installation and Replacement of Monitoring Wells at Various Locations, CWO 10-006

Location: 5 Various Locations (Las Olas Drive, Aptos, Creek Drive, Aptos, Sumner Ave., Aptos, 42nd Ave., Capitola, Cornwell Road, Soquel)

Entity or Person Undertaking Project:

- A. Soquel Creek Water District
- B. Other: *(complete below if other)*

Name: N/A

Address: _____

Staff Determination:

District staff, having undertaken and completed a preliminary review of this project in accordance with the District's resolution entitled, "Local Guidelines of the Soquel Creek Water District Implementing the California Environmental Quality Act", has concluded that this project does not required further environmental assessment because:

1. _____ The proposed action does not constitute a project within the meaning of Section 28.
2. _____ The project is a Ministerial Project under Section 7.
3. _____ The project is an Emergency Project under Section 32.
4. _____ The project constitutes a Feasibility or Planning Study under Section 33.
5. X The project is categorically Exempt under Article 19. **Categorical Exemptions**, Section 15302 Class II (C) and Section 15303 Class III.
6. _____ The project involved another public agency which constitutes the Lead Agency.

Name of Lead Agency: _____

12/20/11

Date

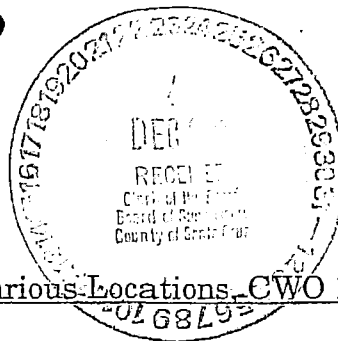


Taj Dufour, Engineering Manager/Chief Engineer

NOTICE OF EXEMPTION
SOQUEL CREEK WATER DISTRICT
P.O. Box 1550
Capitola, CA 95010

28-11

TO: Clerk of the Board
County of Santa Cruz
701 Ocean Street, Room 500
Santa Cruz, CA 95060



Replacement and Installation of Monitoring Wells at Various Locations, CWO 10-006
Project Title

Within the road right of way, dedicated easements on State Park lands, or District private property located at Las Olas Drive, Aptos, Creek Drive, Aptos, Sumner Ave, Aptos, 42nd Ave, Capitola and Cornwell Road, Soquel.

Project Location - Specific

Soquel, Aptos and Capitola
Project Location - City

Santa Cruz
County

Installation of groundwater monitoring wells to be utilized for managing the Soquel/Aptos Groundwater Basin. The groundwater basin is a shared resource among City of Santa Cruz Water Department, Soquel Creek Water District, Central Water District, and various mutual and private well owners. Data will be used to avoid seawater intrusion and manage pumping depressions from larger municipal wells in the basin.

Description of Nature, Purpose and Beneficiaries of Project

Soquel Creek Water District

THIS NOTICE HAS BEEN POSTED AT THE CLERK
OF THE BOARD OF SUPERVISORS OFFICE FOR A

Name of Public Agency Approving Project

PERIOD COMMENCING 23 20 11

Exempt Status: (Check One)

AND ENDING 22 Jan 20 12

- ☐ Ministerial - Section 15073
☐ Declared Emergency - Section 15071
☐ Emergency Project - Section 15071
☒ **Categorical Exemption - State type / section number: 15302, Class II (C)
and 15303, Class III**

Reasons Why Project is Exempt:

Project involves replacement of existing utility facility (groundwater monitoring wells) that involves no expansion of capacity. Project involves installation of new, small structures (new monitoring wells) to monitor the Soquel/Aptos Groundwater Basin.

Taj Dufour
Contact Person

(831) 475-8501 Ext. 123
Phone

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project?
 X Yes No

12/20/11
Date

Taj A. Dufour, P.E.
Engineering Manager/Chief Engineer

EXHIBIT D



State of California—The Resources Agency
DEPARTMENT OF FISH AND GAME
2010 ENVIRONMENTAL FILING FEE CASH RECEIPT

RECEIPT#	395824
STATE CLEARING HOUSE # (if applicable)	

SEE INSTRUCTIONS ON REVERSE. TYPE OR PRINT CLEARLY

LEAD AGENCY	Soquel Creek Water District			DATE	23 Dec 2011
COUNTY/STATE AGENCY OF FILING	Santa Cruz Co			DOCUMENT NUMBER	218-11
PROJECT TITLE	Replacement & Installation of Monitoring Wells				
PROJECT APPLICANT NAME	Taj Dufar			PHONE NUMBER	89 475-8591
PROJECT APPLICANT ADDRESS	CITY	STATE	ZIP CODE		
PO Box 1550	Capitola	CA	95010		
PROJECT APPLICANT (Check appropriate box):					
<input type="checkbox"/> Local Public Agency <input type="checkbox"/> School District <input checked="" type="checkbox"/> Other Special District <input type="checkbox"/> State Agency <input type="checkbox"/> Private Entity					

CHECK APPLICABLE FEES:

- | | | | |
|---|------------|----|----|
| <input type="checkbox"/> Environmental Impact Report (EIR) | \$2,792.25 | \$ | |
| <input type="checkbox"/> Mitigated/Negative Declaration (ND)(MND) | \$2,010.25 | \$ | |
| <input type="checkbox"/> Application Fee Water Diversion (State Water Resources Control Board Only) | \$850.00 | \$ | |
| <input type="checkbox"/> Projects Subject to Certified Regulatory Programs (CRP) | \$949.50 | \$ | |
| <input checked="" type="checkbox"/> County Administrative Fee | \$50.00 | \$ | 50 |
| <input checked="" type="checkbox"/> Project that is exempt from fees | | | |
| <input checked="" type="checkbox"/> Notice of Exemption | | | |
| <input checked="" type="checkbox"/> DFG No Effect Determination (Form Attached) | | | |
| <input type="checkbox"/> Other | | \$ | |

PAYMENT METHOD:

- ☐ Cash ☐ Credit ☒ Check ☐ Other

CK # 29203

TOTAL RECEIVED \$ 50

SIGNATURE	TITLE
X <i>Williams</i>	<i>Sanford Clark</i>

WHITE - PROJECT APPLICANT

YELLOW - DFG/ASB

PINK - LEAD AGENCY

GOLDEN ROD - COUNTY CLERK

FG 753.5a (Rev. 11/09)

Vendor: COUNTY OF SANTA CRUZ

Vendor No: COUNT002

Vendor Acct No:

Invoice Number

Date

Description

FILING FEE

12/19/2011

FILING FEE - NOTICE OF CAT EXEMPTION

Check Date:

12/21/2011

Check Amount:

\$50.00

Invoice Amount

50.00

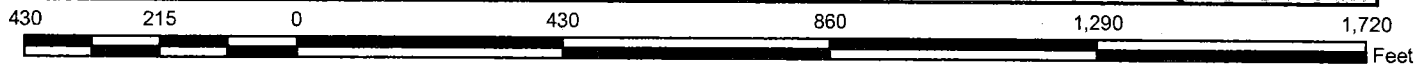
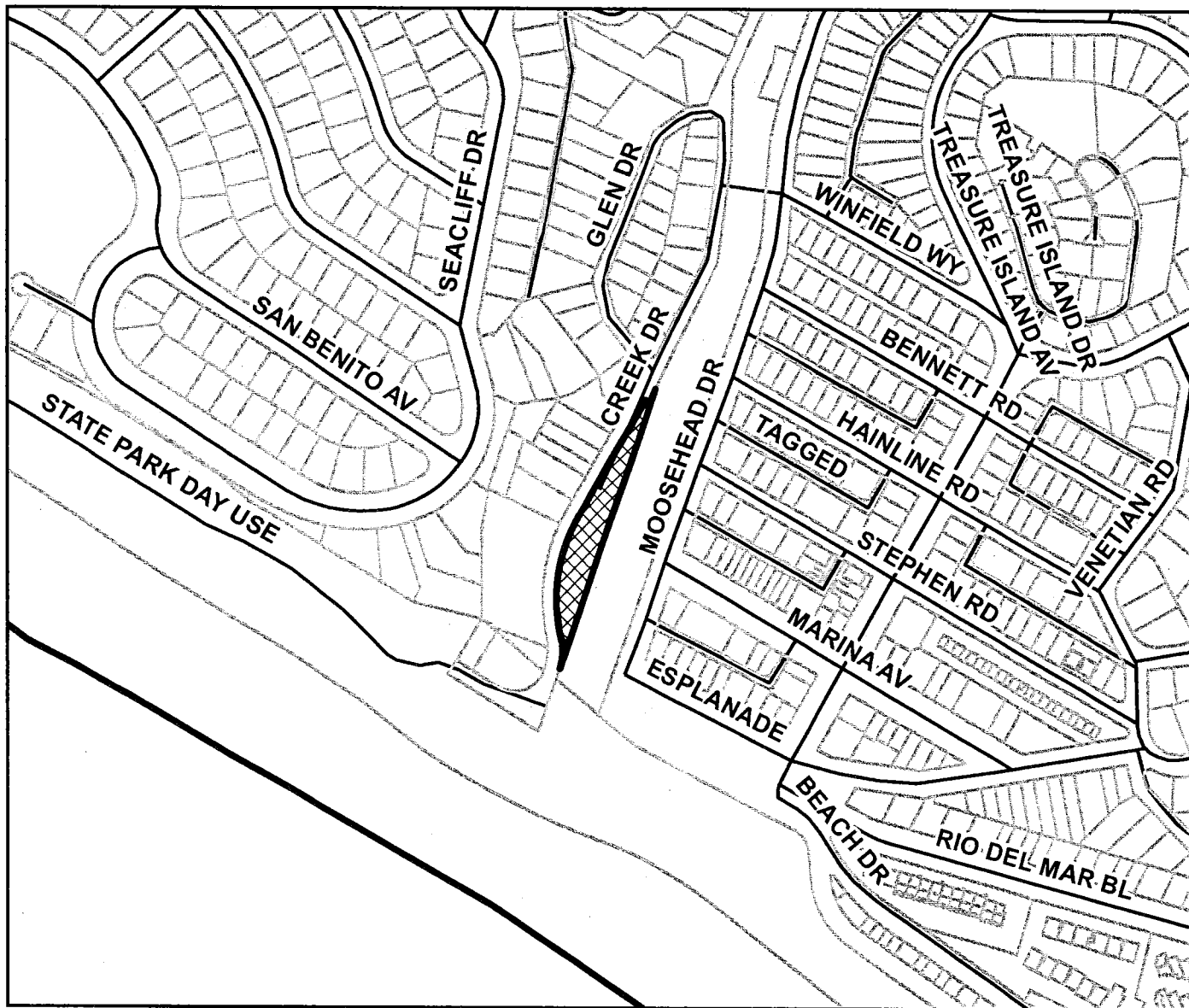
Recpt # 395824
doc # 218-11

OQUEL CREEK WATER DISTRICT





29203

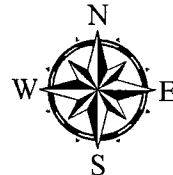


Location Map (Site 1)



LEGEND

-  APN: 042-102-01
-  Assessors Parcels
-  Streets
-  County Boundary



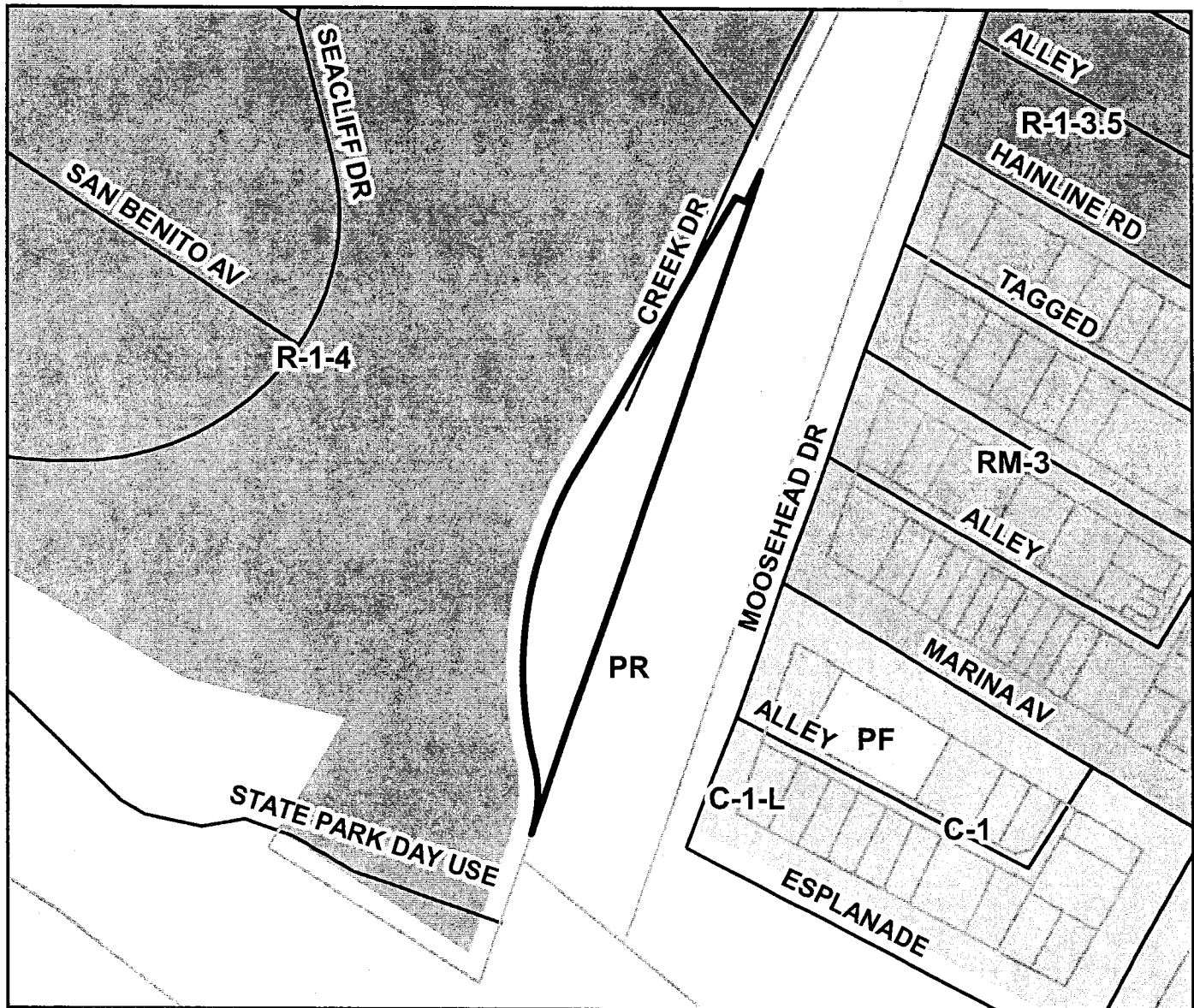
Map Created by
County of Santa Cruz
Planning Department
November 2012

EXHIBIT E



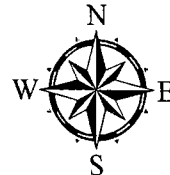
Zoning Map

(Sheet 1)



LEGEND

- APN: 042-102-01
- Assessors Parcels
- Streets
- PARK
- PUBLIC FACILITY
- COMMERCIAL-NEIGHBORHOOD
- RESIDENTIAL-MULTI FAMILY
- RESIDENTIAL-SINGLE FAMILY

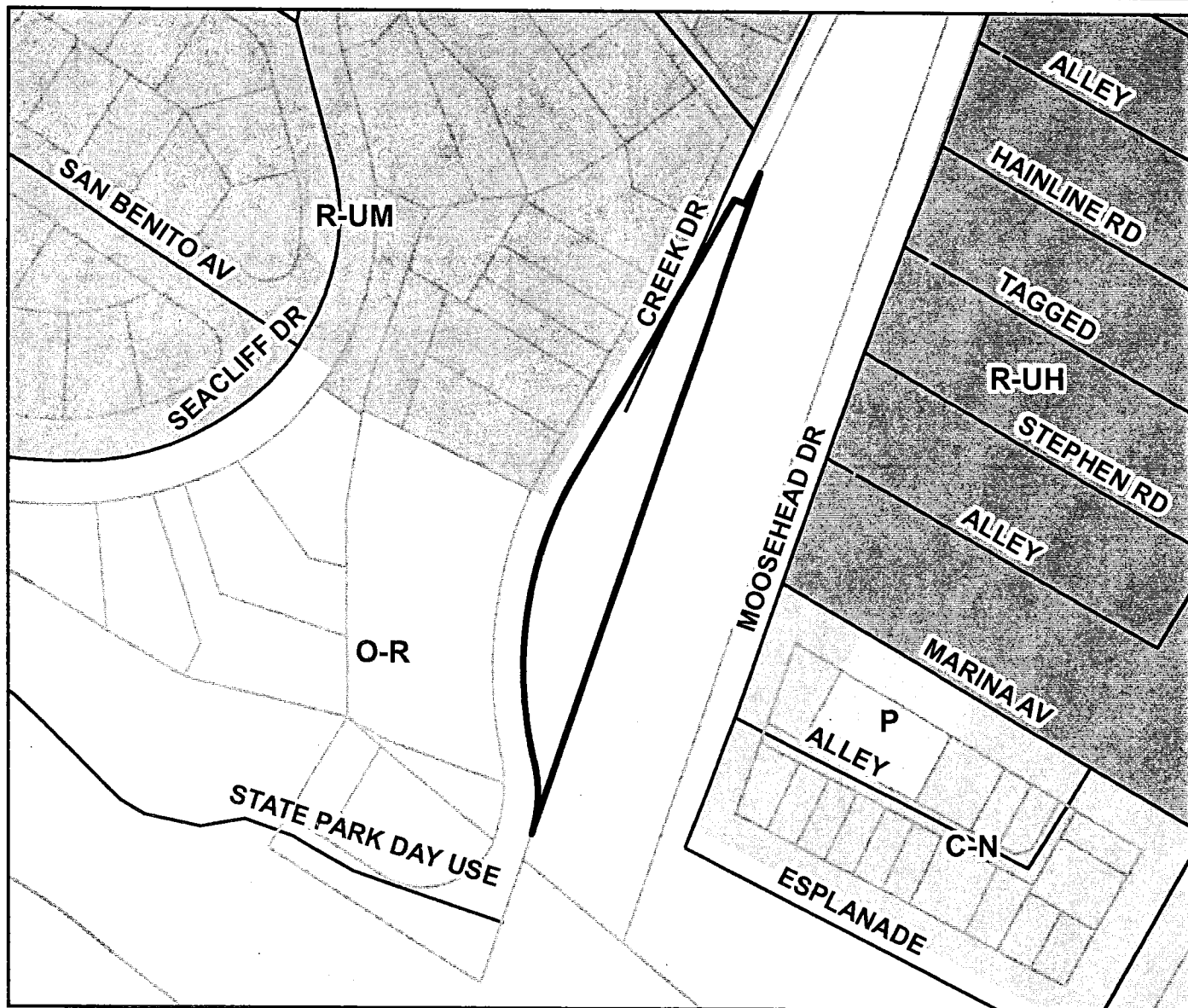


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Planning Department
November 2012

EXHIBIT E

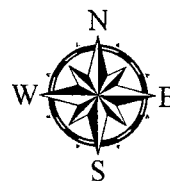


General Plan Designation Map (Site 1)



LEGEND

- APN: 042-102-01
- Assessors Parcels
- Streets
- Parks and Recreation
- Public Facilities
- Commercial-Neighborhood
- Residential - Urban Medium Density
- Residential - Urban High Density

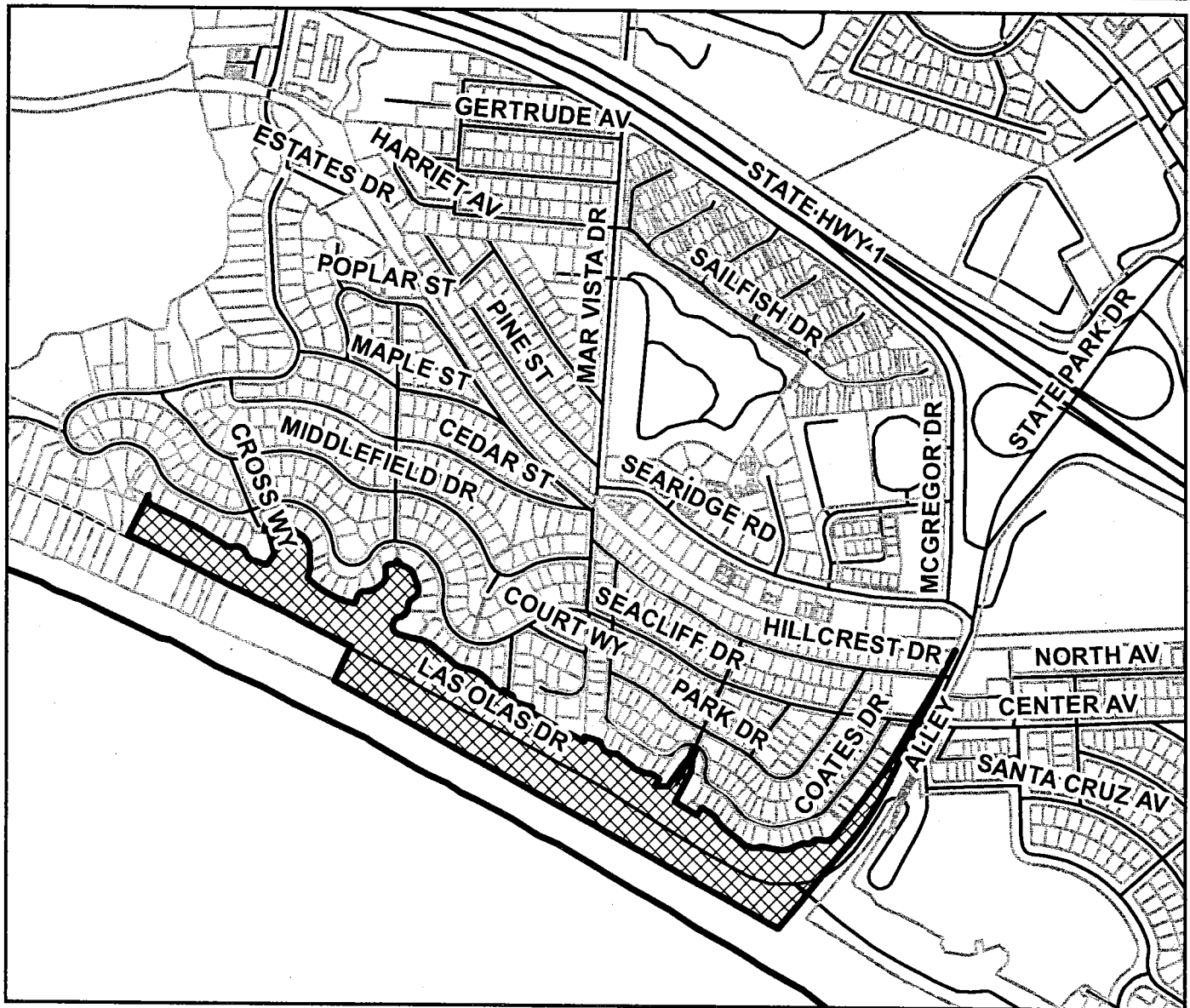


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County of Santa Cruz
Planning Department
November 2012






EXHIBIT E

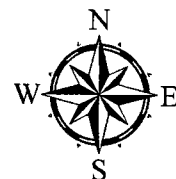


Location Map (Site 2)



LEGEND

-  APN: 038-201-01
-  Assessors Parcels
-  Streets
-  State Highways
-  County Boundary

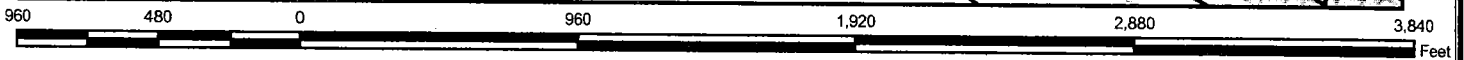
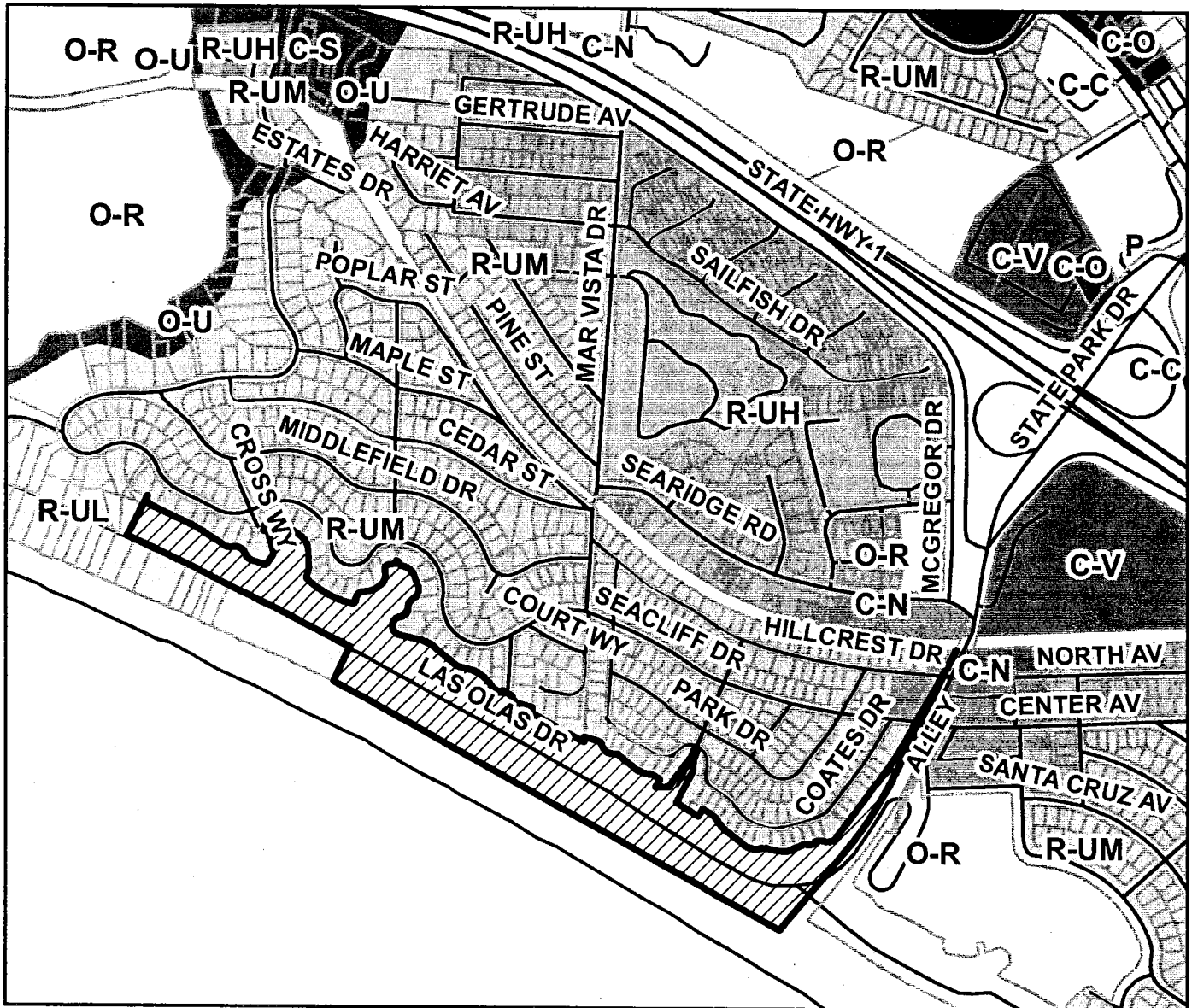


Map Created by
County of Santa Cruz
Planning Department
November 2012

EXHIBIT E

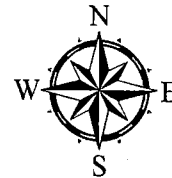


General Plan Designation Map (Sheet 2)



LEGEND

- APN: 03B-201-01
- Assessors Parcels
- Streets
- State Highways
- County Boundary
- Parks and Recreation
- Residential - Urban Low Density
- Residential - Urban Medium Density
- Residential - Urban High Density
- Commercial-Neighborhood
- Commercial-Community
- Commercial-Office
- Commercial-Visitor Accom.
- Urban Open Space



Map Created by
County of Santa Cruz
Planning Department
November 2012

EXHIBIT E

**MONITORING WELL DESTRUCTION, REPLACEMENT AND NEW
INSTALLATIONS AT VARIOUS LOCATIONS
SOQUEL, CAPITOLA, AND APTOS, CA
CWO 10-006**

Purpose

The purpose of this project is to destroy six existing monitoring wells, and to install four monitoring wells at two well clusters for the Soquel Creek Water District (District). The District is replacing these compromised monitoring wells in order to continue monitoring for salt water intrusion.

The SC-8 and SC-9 well clusters were originally installed as part of California Coastal Commission Permit No. 3-82-59. The well clusters are identified as No. 1 through No. 8 on Exhibit No. 1 of the original application. The corresponding current well cluster designations are indicated in Table 1.

Table 1: Current Well Cluster Designations

Well Cluster	Location	Well Number from Permit 3-82-59
SC-8	Creek Dr.	No. 6
SC-9	Las Olas Dr.	No. 8

Project Description

The work to be conducted consists of constructing and destroying monitoring wells. Constructing a monitoring well requires drilling an 8.75 inch borehole to a depth between 200 and 900 feet below ground surface, installation of well screen, well casing, gravel pack, concrete seal, and surface monument. Typical monitoring well construction details are shown in Figure 1. Depth and screened intervals for individual monitoring wells are shown in Table 2. Well construction equipment consists of a 40 foot long drill rig, two 20 ft x 8 ft x 5 ft tall baker tanks, an air compressor, and forklift.

T- 1

Destroying a monitoring well requires filling the well casing with neat cement, removal of the casing to a depth of five feet below ground surface, removal of the surface monument, and restoration of the surface to match the surroundings. The details of wells to be destroyed are shown in Table 3. Well destruction equipment consists of a concrete pump and air compressor.

Cross Section

The cross section of a typical monitoring well is shown in Figure 1. The cross section for the surface monument is shown in more detail in Figure 2. The depth and screening information for wells to be constructed are shown in Table 2. Construction details for wells to be destroyed are shown in Table 3.

Table 2: Well Depths and Screening information

Well	Total Depth, feet bgs	Depth to Bottom of Sanitary Seal, feet bgs	Depth to Screen top, feet bgs	Screen Length, feet	Depth to Screen Bottom, feet bgs
SC-8R F	210	5	20	180	200
SC-9R A	910	610	625	275	900
SC-9R C	390	300	315	65	380
SC-9R E	150	10	25	115	140

Table 3: Construction Details for Monitoring Wells to be Destroyed

District Well Number	Year Installed	Area	State Well Number	April 2011 Depth to Water, feet bgs	Casing Diameter (inches)	Screen Top, feet bgs	Screen Bottom, feet bgs	Gravel Pack (Top-Bottom), feet bgs
SC-8F	1983	Aptos Creek	11S/1E-18N	8	0-136 ft: 6 5/8, 136-200 ft: 2 3/8	20	200	20-200
SC-9A	1983	Seacliff	11S/1W-13F	6	0-118 ft: 6 5/8, 118-900 ft: 2 3/8	625	900	600-900
SC-9B				20	2 3/8	400	575	400-590
SC-9C				23	2 3/8	316	380	300-380
SC-9D				2	0-121 ft: 6 5/8, 121-290 ft: 2 3/8	184	290	170-290
SC-9E				0	2 3/8	25	140	25-140

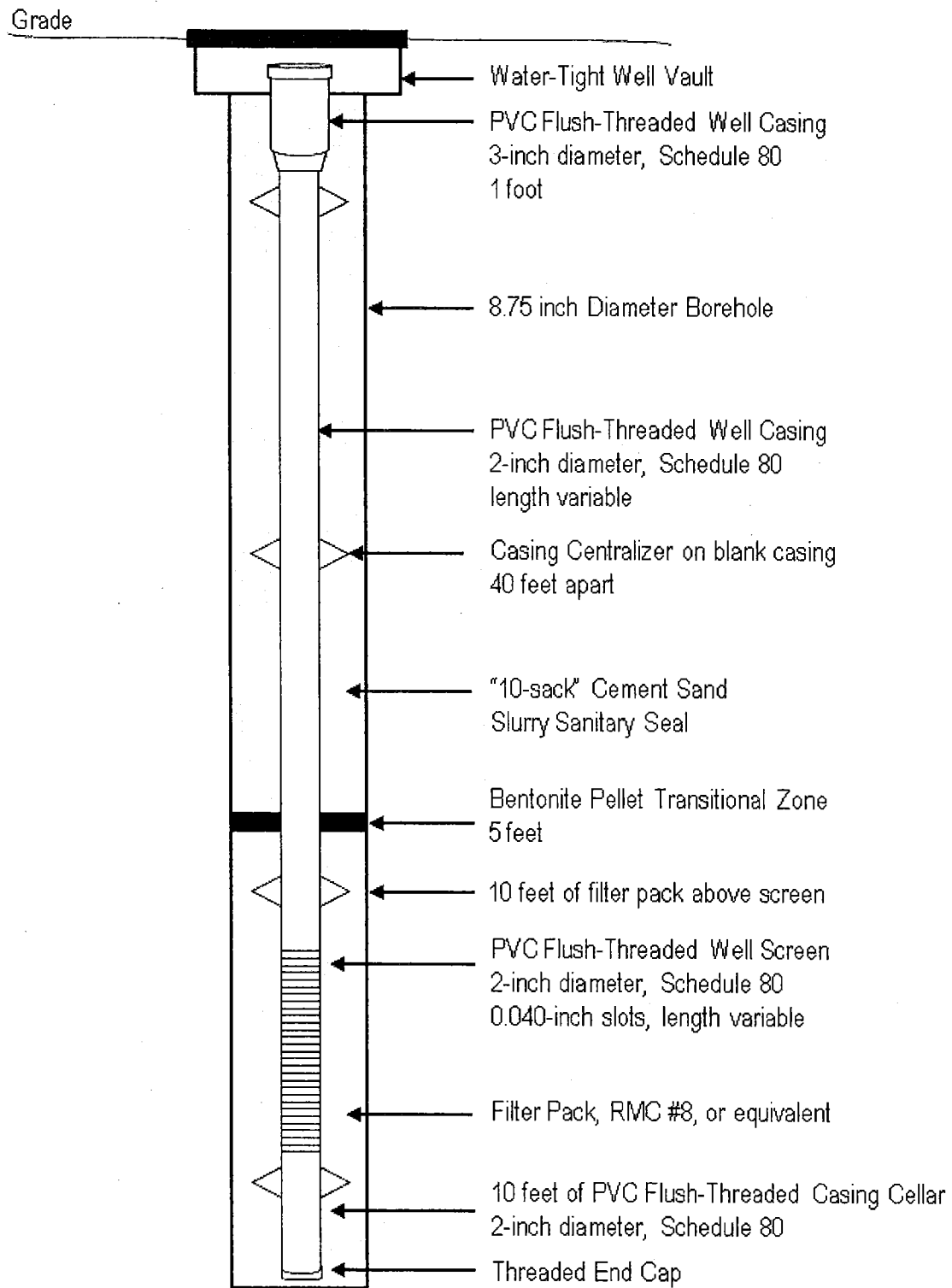


Figure 1: Well Construction Diagram and Materials

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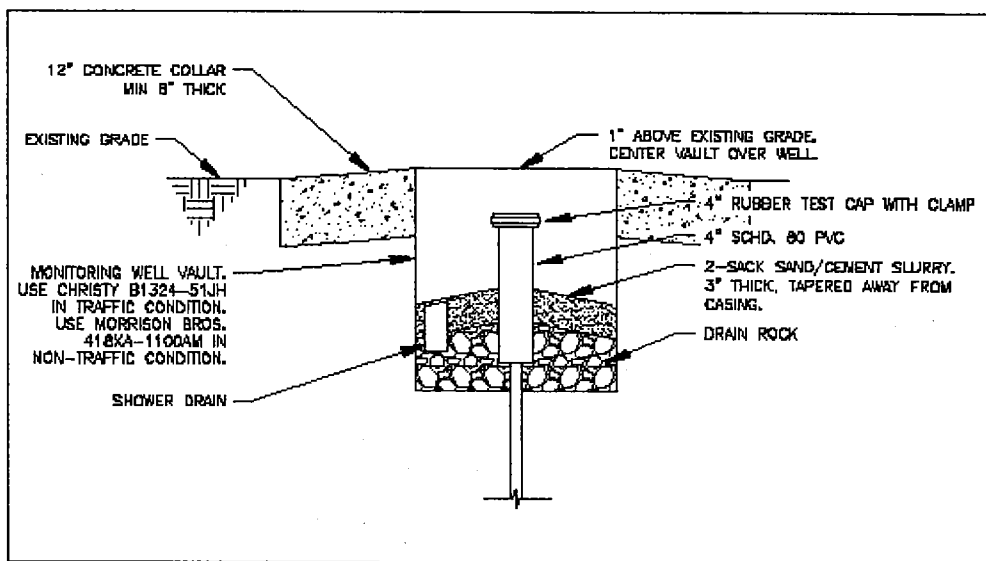


Figure 2: Wellhead Completion Detail

Well Construction Scheduling

1006 Feb 10 2007 10:31 PM 10:05 PM 10:12 PM 10:19 PM 10:26 PM

Task	Week	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00
	mtwtfss	mtwtfss	mtwtfss	mtwtfss	mtwtfss	mtwtfss	mtwtfss	mtwtfss	mtwtfss	mtwtfss	mtwtfss	mtwtfss
DESTROY WELLS SC-9A, 9B, 9C, 9D, 9E SC-8F												
Mobilize DRILL RIG CONSTRUCT WELLS SC9RA, 9RC, 9RE												
DESTROY WELLS SC-A2A, A2B, A2C, NEW BRIGHTEN BEACH WELLS												
MOBILIZE & CONSTRUCT WELLS SC-8RF												
MOBILIZE & CONSTRUCT WELL, SC-2RA, A2RB, A2RB AND A2RC												
MOBILIZE & CONSTRUCT WELLS CORNWELL TU, AA AND A												
MOBILIZE & CONSTRUCT WELL PEARSON AA, A												
DEMOLELIZE & CLEAN-UP												

Figure 3: Planned scheduling for Well Destruction and Installations

Mitigations

The contract documents prohibit work within the State Parks after Memorial Day and in the first two weeks of April and work hours within the parks will be 8am to 5pm as requested by the California Department of Parks and Recreation. The Soquel Creek Water District will reserve adjacent camping spaces during the construction period to minimize impact to campers.

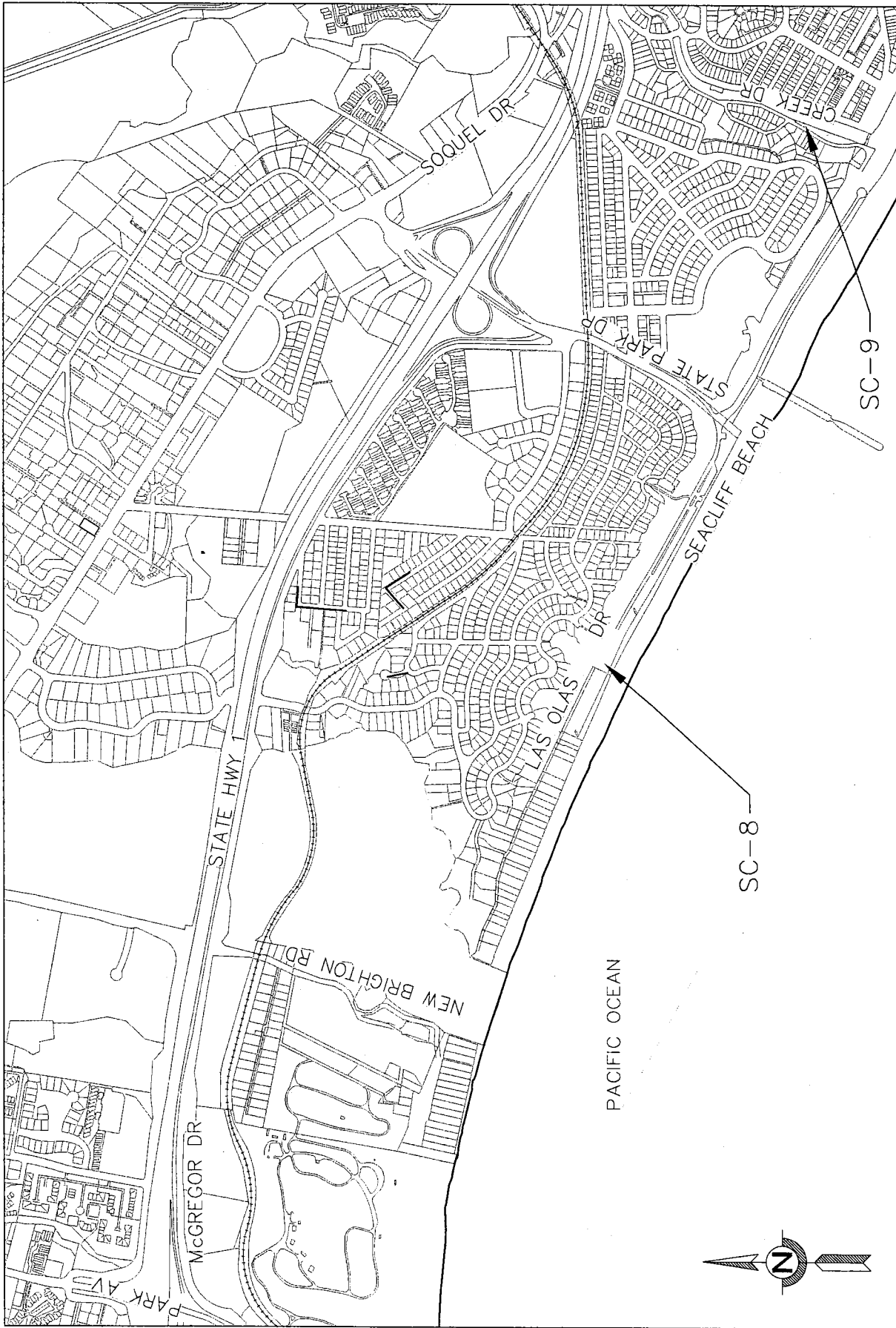
Public access will be maintained on all sidewalks and roadways adjacent to construction areas or be rerouted as necessary for public safety.

Grading

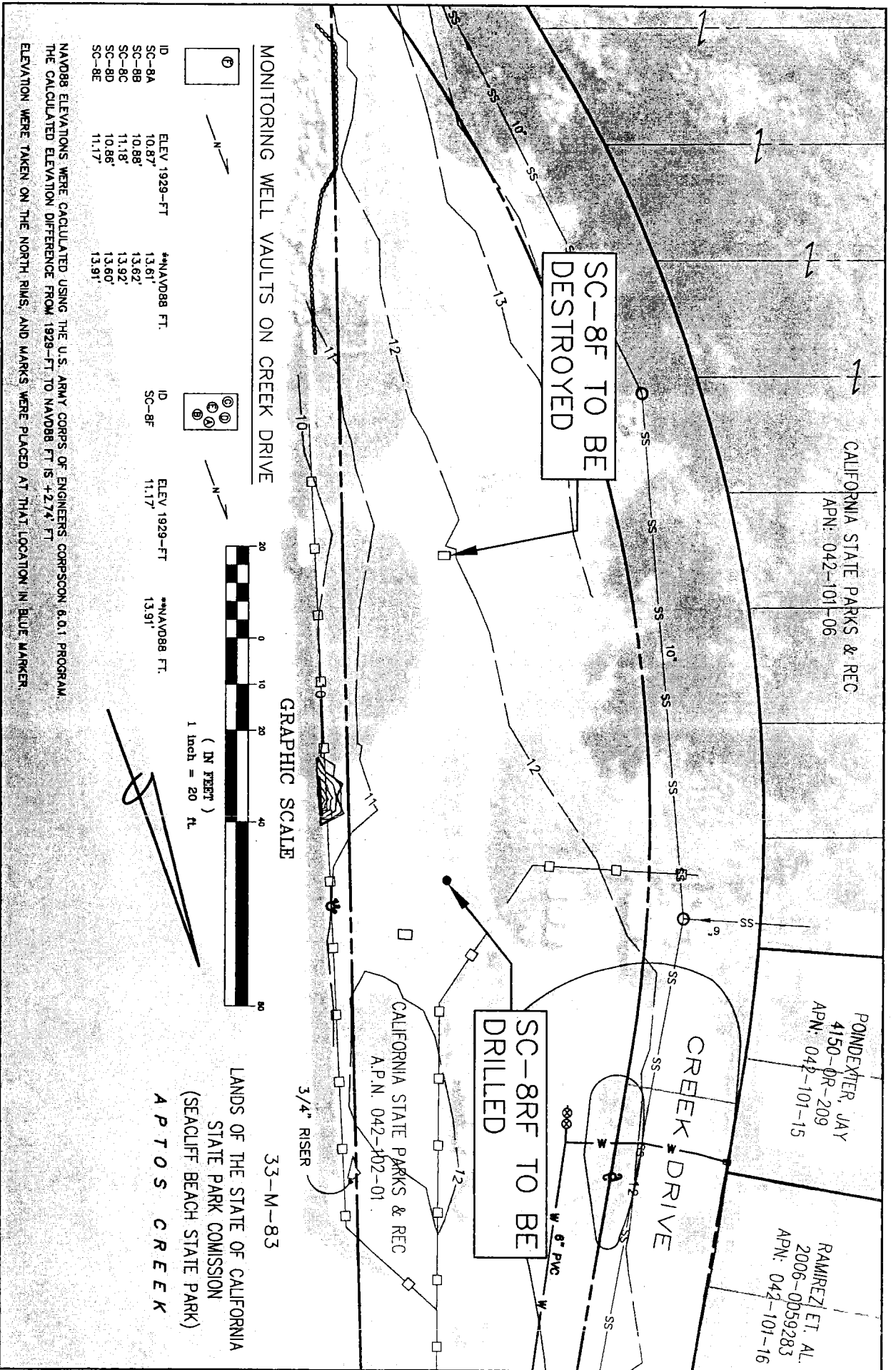
There is no grading for this project.

Site Plan

See attached site plans.



Location Map



Site Map: SC-8F Aptos Creek Monitoring Wells

