



**BOWMAN & WILLIAMS**  
**CONSULTING CIVIL ENGINEERS**  
A CALIFORNIA CORPORATION

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## Transmittal

July 17, 2012

Taj Dufour, P.E.  
Engineering Manager/Chief Engineer  
Soquel Creek Water District  
5180 Soquel Drive  
Soquel, CA 95073

Re: Revised SC-8/SC-9 COMBINED EXHIBIT MAP  
Our File No. 24797

☐ US mail ☐ Fedex ☐ UPS ☒ Hand Delivery ☐ Pick-up

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☒ For Your Use

**Items:**

| Quantity | Description                            |
|----------|--|
| 3        | Revised SC-8/SC-9 COMBINED EXHIBIT MAP |
| 3        | Revised SC-A2 EXHIBIT MAP              |
| 3        | SC-21 EXHIBIT MAP                      |
| 3        | Revised SC-22 EXHIBIT MAP              |

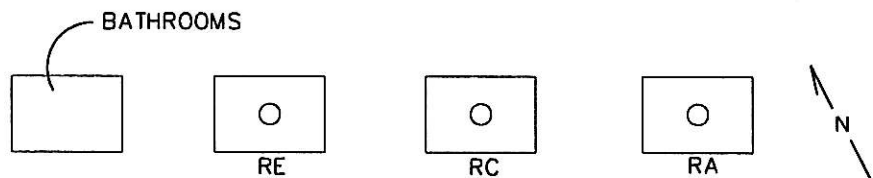
**• Comments:**

Please feel free to contact me with any questions, or comments.

Sincerely  
Bowman & Williams

Jeffrey R. Naess, P.E.

# SC-9 SEACLIFF STATE BEACH LAS OLAS DRIVE MONITORING WELLS DETAIL FOR MONITORING WELL VAULT (NEW)



OCEAN

| ID | WELL ELEVATION |              | LID ELEVATION |              |
|----|----------------|--------------|---------------|--------------|
|    | 1929-FT        | **NAVD88 FT. | 1929-FT       | **NAVD88 FT. |
| RE | 13.34'         | 16.08'       | 13.91'        | 16.65'       |
| RC | 13.40'         | 16.14'       | 13.89'        | 16.63'       |
| RA | 13.33'         | 16.07'       | 13.91'        | 16.65'       |

STATE PLANE COODINATES, NAD 83(CORS 96)  
0403-CALIF. ZONE 3, U.S. FEET

| ID | NORTHING  | EASTING   |
|----|-----------|-----------|
| RE | 1816133.2 | 6147477.3 |
| RC | 1816119.8 | 6147503.1 |
| RA | 1816126.2 | 6147490.2 |

## BASIS OF ELEVATIONS

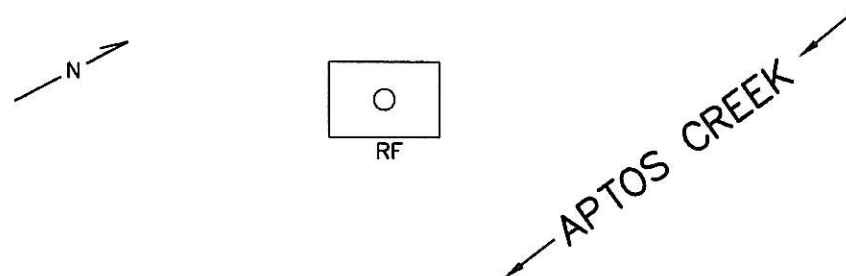
ELEVATIONS SHOWN ARE BASED ON THE COUNTY OF SANTA CRUZ  
DEPARTMENT OF PUBLIC WORKS BENCHMARK #394

BRASS DISK STAMPED 10.57 LOCATED AT THE RIO DEL MAR  
ESPLANADE PUMP STATION ON MARINA AVE. 143' E OF MOOSEHEAD DR.  
AT THE E'LY COR. OF THE PUMP STATION IN THE BRICK WORK BEHIND  
THE SIDEWALK.

ELEVATION - 10.71 1929-FT (UNADJUSTED)

\*\* BENCHMARK #394 CALCULATED ELEVATION IS 13.46' FT, NAVD88

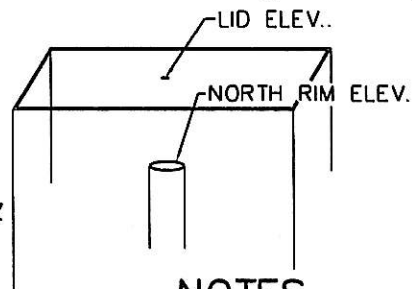
# SC-8 APTOS CREEK CREEK DRIVE MONITORING WELL DETAIL FOR MONITORING WELL VAULT (NEW)



| ID | WELL ELEVATION |              | LID ELEVATION |              |
|----|----------------|--------------|---------------|--------------|
|    | 1929-FT        | **NAVD88 FT. | 1929-FT       | **NAVD88 FT. |
| RF | 11.35'         | 14.09'       | 11.79'        | 14.54'       |

STATE PLANE COODINATES, NAD 83(CORS 96)  
0403-CALIF. ZONE 3, U.S. FEET

| ID | NORTHING  | EASTING   |
|----|-----------|-----------|
| RF | 1814726.5 | 6150803.7 |



## NOTES

STATE PLANE COORDINATES WERE DERIVED FROM FAST STATIC  
OBSERVATIONS ON EACH OF THE MONITORING WELLS, AND THE  
COORDINATES WERE CALCULATED UTILIZING THE NGS-OPUS WEBSITE

\*\*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 +2.75' FT

ELEVATION WERE TAKEN ON THE NORTH RIMS, AND MARKS WERE  
PLACED AT THAT LOCATION IN BLACK MARKER AND A SCRIBED LINE.

ELEVATIONS SHOWN ARE IN FEET AND DECIMALS THEREOF.



**BOWMAN & WILLIAMS**  
CONSULTING CIVIL ENGINEERS

1011 CEDAR STREET SANTA CRUZ CA 426-3560

SCALE NONE

DATE July 16, 2012

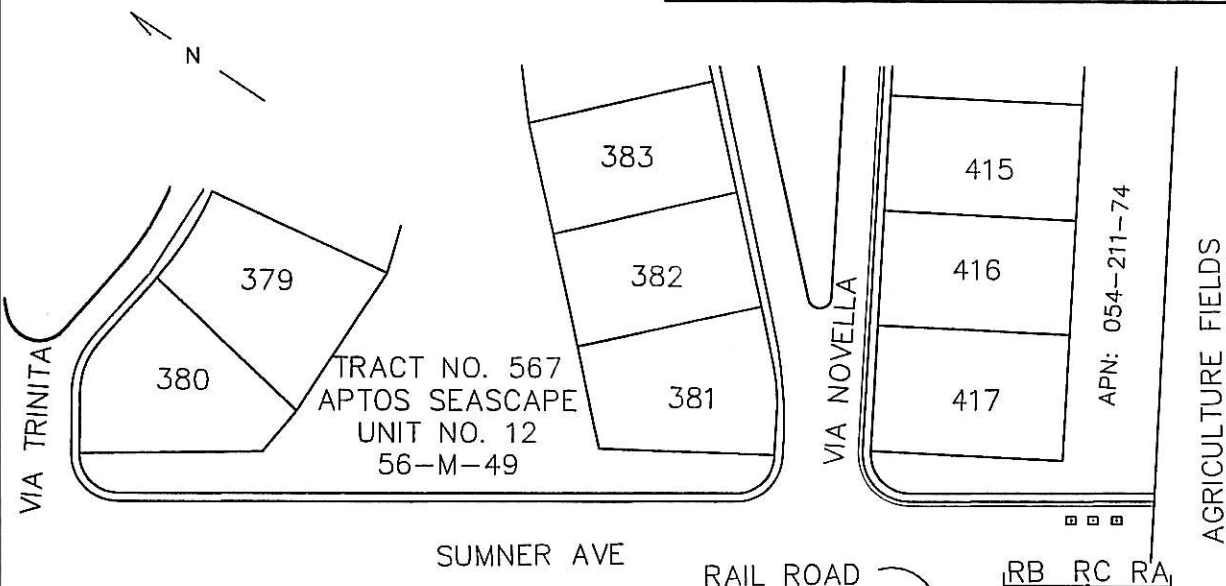
APN: 038-201-01 & 042-102-01

JOB NO. 24797

DWG NAME 24797\_Mon-Well\_elev.DWG

REF NO. 24694

SC-A2  
SUMNER DRIVE MONITORING WELLS



BASIS OF ELEVATIONS

ELEVATIONS SHOWN ARE BASED ON THE COUNTY OF SANTA CRUZ DEPARTMENT OF PUBLIC WORKS BENCHMARK #41A

STATION DESCRIPTION

MOVE BRASS CAP TO TOP OF CURB NW CORNER OF VIA LANTANA AND DOLPHIN DRIVE ACROSS FROM 2200 DOLPHIN DRIVE., 20' WEST OF THE CENTERLINE OF DOLPHIN DRIVE, AND 56' NORTH OF THE CENTERLINE OF VIA LANTANA, STAMPED W-41

ELEVATION - 147.86 1929-FT (UNADJUSTED)

\*\* BENCHMARK #41A CALCULATED ELEVATION IS 150.61' FT. NAVD88

DETAIL FOR MONITORING WELL VAULT (NEW)

| STATE PLANE COODINATES, NAD 83(CORS 96)<br>0403-CALIF. ZONE 3, U.S. FEET |           |           | RB              |              | RC             |              | RA |  |
|--|-----------|-----------|-----------------|--------------|----------------|--------------|----|--|
|  |           |           | WELL ELEVATION. |              | LID ELEVATION. |              |    |  |
| ID   | NORTHING  | EASTING   | 1929-FT         | **NAVD88 FT. | 1929-FT        | **NAVD88 FT. |    |  |
| RB   | 1805542.6 | 6161061.4 | 128.20'         | 130.95'      | 128.76'        | 131.51'      |    |  |
| RC   | 1805530.2 | 6161069.4 | 128.22          | 130.97'      | 128.85'        | 131.60'      |    |  |
| RA   | 1805517.6 | 6161077.6 | 128.28          | 131.03'      | 128.96'        | 131.71'      |    |  |



**NOTES**

STATE PLANE COORDINATES WERE DERIVED FROM FAST STATIC OBSERVATIONS ON EACH OF THE MONITORING WELLS, AND THE COORDINATES WERE CALCULATED UTILIZING THE NGS-OPUS WEBSITE

\*\*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 +2.75' FT

ELEVATION WERE TAKEN ON THE NORTH RIMS, AND MARKS WERE PLACED AT THAT LOCATION IN BLACK MARKER AND A SCRIBED LINE.

ELEVATIONS SHOWN ARE IN FEET AND DECIMALS THEREOF.

**BOWMAN & WILLIAMS**  
CONSULTING CIVIL ENGINEERS

1011 CEDAR STREET SANTA CRUZ CA 426-3560

SCALE NONE

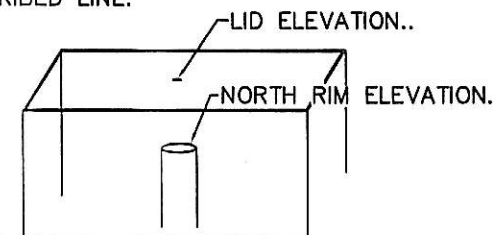
DATE JULY 16, 2012

APN: ADJACENT TO 054-211-74

JOB NO. 24797

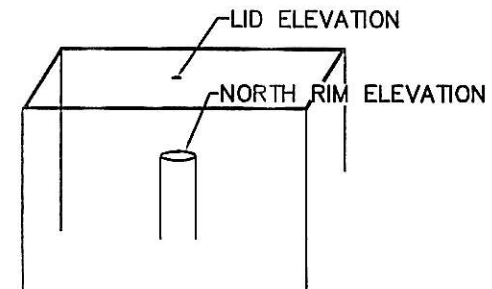
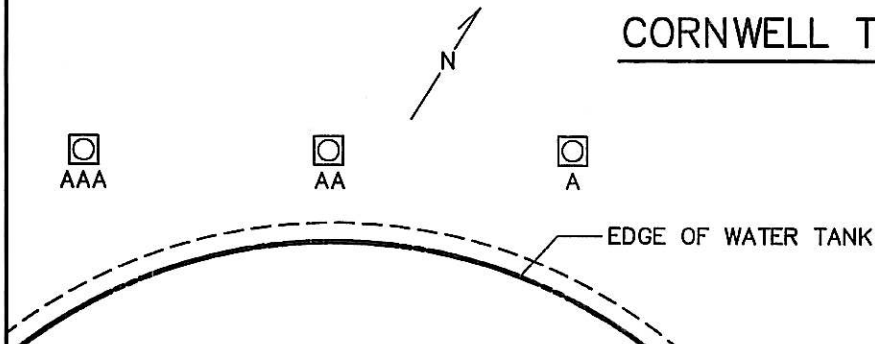
DWG NAME 24797\_Mon-Well\_elev.DWG

REF NO. 24797





# SC-21 CORNWELL TANK MONITORING WELLS



ELEVATION WERE TAKEN ON THE NORTH RIMS, AND MARKS WERE PLACED AT THAT LOCATION IN BLACK MARKER AND A SCRIBED LINE.

## DETAIL FOR MONITORING WELL VAULT (NEW)

| ID  | STATE PLANE COODINATES, NAD 83<br>0403-CALIF. ZONE 3, U.S. FEET |           | WELL ELEVATION. |              | LID ELEVATION. |              |
|-----|---|-----------|-----------------|--------------|----------------|--------------|
|     | NORTHING  | EASTING   | 1929-FT         | **NAVD88 FT. | 1929-FT        | **NAVD88 FT. |
| AAA | 1827094.3   | 6134840.1 | 218.84          | 221.59'      | 219.23'        | 221.98'      |
| AA  | 1827101.3   | 6134849.2 | 218.63'         | 221.38'      | 219.09'        | 221.84'      |
| A   | 1827107.3   | 6134859.5 | 218.43'         | 221.18'      | 218.98'        | 221.73'      |

## NOTES

STATE PLANE COORDINATES WERE DERIVED FROM FAST STATIC OBSERVATIONS ON EACH OF THE MONITORING WELLS, AND THE COORDINATES WERE CALCULATED UTILIZING THE NGS-OPUS WEBSITE

\*\*NGVD29 ELEVATIONS WERE CALCULATED USING THE U.S. ARMY CORPS OF ENGINEERS CORPSCON 6.0.1 PROGRAM. THE CALCULATED ELEVATION DIFFERENCE FROM NAVD88 FT TO 1929-FT IS -2.75' FT

ELEVATION WERE TAKEN ON THE NORTH RIMS, AND MARKS WERE PLACED AT THAT LOCATION IN BLACK MARKER AND A SCRIBED LINE.

ELEVATIONS SHOWN ARE IN FEET AND DECIMALS THEREOF.

## BASIS OF ELEVATIONS

ELEVATIONS SHOWN ARE BASED ON NGS BENCHMARK:

DESIGNATION - R-125  
PID - GU4226  
STATE/COUNTY - CA/SANTA CRUZ  
USGS QUAD - WATSONVILLE WEST (1995)

ELEVATION - 182.61 FEET ADJUSTED NAVD88 DATUM  
\*\* ELEVATION - 179.86 FEET ADJUSTED NGVD29 DATUM

## STATION DESCRIPTION

IN ROB ROY JUNCTION, AT THE INTERSECTION OF US HIGHWAY 1 AND FREEDOM BLVD., IN THE SOUTHEAST ABUTMENT WALKWAY OF THE NORTHEAST ABUTMENT, OF THE OVERPASS, 38.7 FT. SOUTHWEST OF THE NORTHEAST END OF THE BRIDGE, 34.8 FT. SOUTHEAST OF THE SOUTHWEST GUARDRAIL, AND 1.0 FT. ABOVE THE LEVEL OF THE ROAD.



**BOWMAN & WILLIAMS**  
CONSULTING CIVIL ENGINEERS

1011 CEDAR STREET SANTA CRUZ CA 426-3560

SCALE NONE

DATE MAY 31, 2012

APN: 102-441-48

JOB NO. 24797

DWG NAME 24797\_Mon-Well\_elev.DWG

REF NO. 24694

# SC-22 41ST AVENUE MONITORING WELLS

SN FILLMORE LLC  
2011-0009847

PARCEL A  
81-M-22

PARCEL B  
81-M-22

PG&E  
1400-OR-568

PARCEL "B"  
48-M-17

DE BERNARDO ET. AL.  
2000-38495

35' DRIVEWAY EASEMENT (1808-OR-503)

DRIVEWAY ENTRANCE TO 1840 41st AVE.

AAA A AA

A

LOT A CHABOYA RANCH ET. AL.  
28-PM-35 2010-13630

PARCEL "A" 48-M-17

EASEMENT FOR COMMON  
AREA 2526-OR-300

LOT B  
28-PM-35

## BASIS OF ELEVATIONS

ELEVATIONS SHOWN HEREON ARE BASED ON THE COUNTY OF SANTA CRUZ BENCHMARK #13. A BRASS CAP IN A 12-INCH COUNTY MONUMENT BOX MARKED "CH1" LOCATED 45' WEST OF THE CENTERLINE OF 41ST AVENUE & 12-FEET SOUTH OF THE CENTERLINE OF THE RAILROAD TRACKS, ALSO 12.5-FEET EAST OF THE CENTERLINE OF THE SIGNAL CROSSING CONTROL BOX.

ELEVATION BM#13= 62.003 FEET NGVD29 (ADJUSTED)  
64.753 FEET (NAVD88)

SCHABEL AND CHAN LLC.  
2011-0000807

## NOTES

\*\*THE CALCULATED DIFFERENCE FOR CONVERTING BETWEEN 1929-FT & NAVD88 ELEVATION, CALCULATED FROM THE ARMY CORPS OF ENGINEERS VERTCON PROGRAM IN THE AREA OF THIS MAP IS +2.75 FT.

STATE PLANE COORDINATES WERE DERIVED FROM FAST STATIC OBSERVATIONS ON EACH OF THE MONITORING WELLS, AND THE COORDINATES WERE CALCULATED UTILIZING THE NGS-OPUS WEBSITE

ELEVATIONS SHOWN ARE IN FEET AND DECIMALS THEREOF.

## DETAIL FOR MONITORING WELL VAULT (NEW)

STATE PLANE COORDINATES, NAD 83(CORS 96)  
0403-CALIF. ZONE 3, U.S. FEET

| ID  | NORTHING  | EASTING   | WELL ELEVATION. |              | LID ELEVATION. |              |
|-----|-----------|-----------|-----------------|--------------|----------------|--------------|
|     |           |           | 1929-FT         | **NAVD88 FT. | 1929-FT        | **NAVD88 FT. |
| AAA | 1817148.6 | 6134180.9 | 72.31'          | 75.06'       | 72.72'         | 75.47'       |
| A   | 1817148.5 | 6134195.3 | 72.67'          | 75.42'       | 73.15'         | 75.90'       |
| AA  | 1817148.3 | 6134210.4 | 72.38'          | 75.13'       | 72.87'         | 75.62'       |

APN: 034-131-15

**BOWMAN & WILLIAMS**

CONSULTING CIVIL ENGINEERS

1011 CEDAR STREET SANTA CRUZ CA 426-3560

SCALE 1"=50'

DATE JULY 16, 2012

APN: 034-131-15

JOB NO. 24797

DWG NAME 24797\_Mon-Well\_elev.DWG

FILE NO. 24797



20' RIGHT OF WAY  
(1808-OR-503)