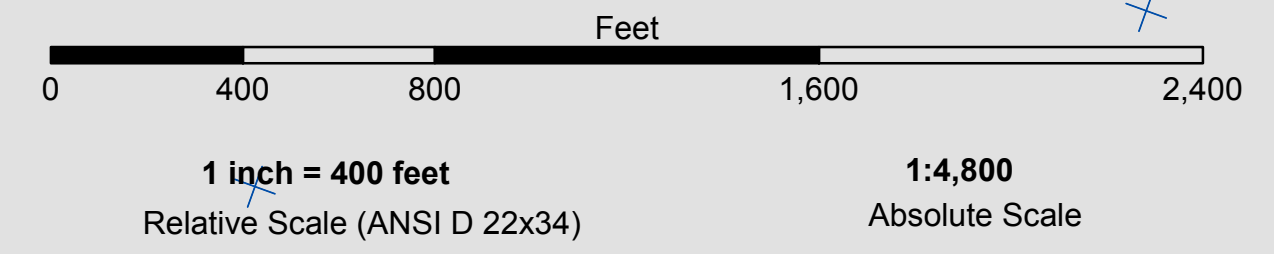


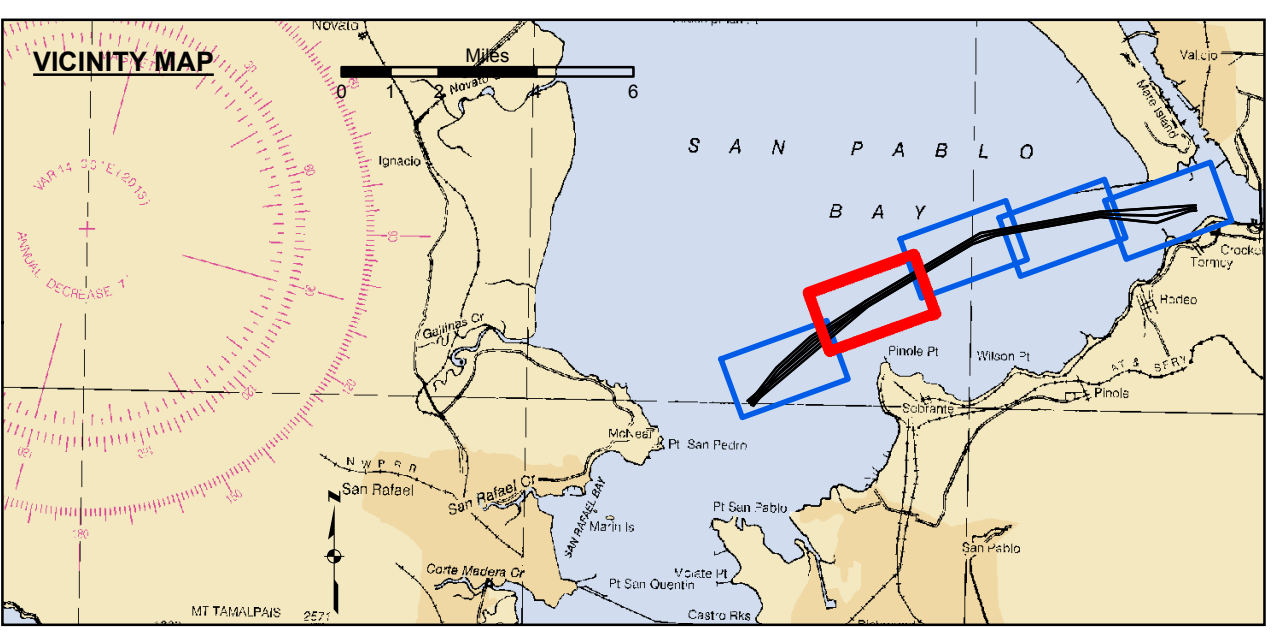
**US Army Corps of Engineers**  
 San Francisco District  
 1455 Market Street  
 San Francisco, CA 94103

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|   |                    |              |
|---|--------------------|--------------|
| Prepared Under the Direction of<br><b>JOHN C. MORROW</b><br>LT Colonel, C.E., District Engineer | Surveyed By:       | Chart Date:  |
| Submitted:<br>Hydro Survey Team Leader  | Plotted By:<br>PDT | Jul 11, 2014 |
| Recommended:<br>Chief, Hydro Survey Section   | Checked By:<br>PDT | Designed by: |
| Approved:<br>Chief, Construction Branch   | Drawn by:<br>PDT   |              |



FLOOD →  
 ← EBB



- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding\*
- Countours
- 35
- 34
- 33
- 32
- 31

**NOTES:**  
 HORIZONTAL COORDINATE SYSTEM:  
 NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.  
 VERTICAL DATUM:  
 SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.  
 THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.  
 BASE MAPS ARE USDA NAIP 2010.  
 \*SHOALEST SOUNDING PER QUARTER PER REACH

DRAWING NOT TO BE USED FOR NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY. SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT. SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.  
 SURVEYED BY THE CORPS OF ENGINEERS.  
 THE PROJECT DEPTH IS -35 FEET AT MLLW.  
 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE III CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.  
 CONTROL:  
 RTK BASE:  
 POINT PINOLE 4 RESET (PID: JT2895)  
 WGS84 ELL. HT. -11.292M  
 TIDAL CONTROL:  
 POINT PINOLE TG - MAIL @10.0FT MLLW  
 NOAA 941 5054 - POINT PINOLE  
 TIDES WERE POST PROCESSED FROM GPS OBSERVABLES AT POINT PINOLE 4 RESET

**PRELIMINARY ISSUE**  
 THIS PLAN ISSUED FOR  
 ADVANCE INFORMATION ONLY

CALIFORNIA  
**PINOLE SHOALS**  
**PREDREDGE SURVEY**  
 2-9 JULY 2014  
 SAN PABLO BAY

**Sheet**  
**Reference**  
**Number**  
**2 of 5**