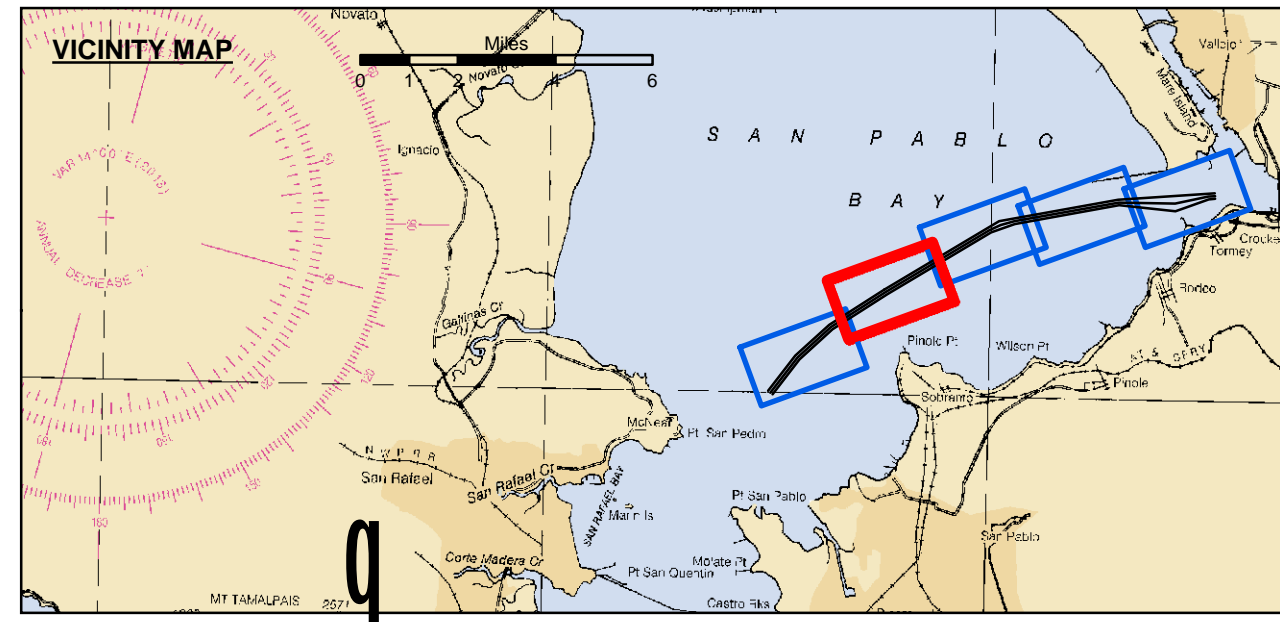


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Chart Date:	Aug 16, 2016
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	Plotted By:
Plotted By:	PDT
Checked By:	PDT
Approved:	Chief, Construction Branch

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 5, 11-12 AUGUST 2016
 SAN PABLO BAY

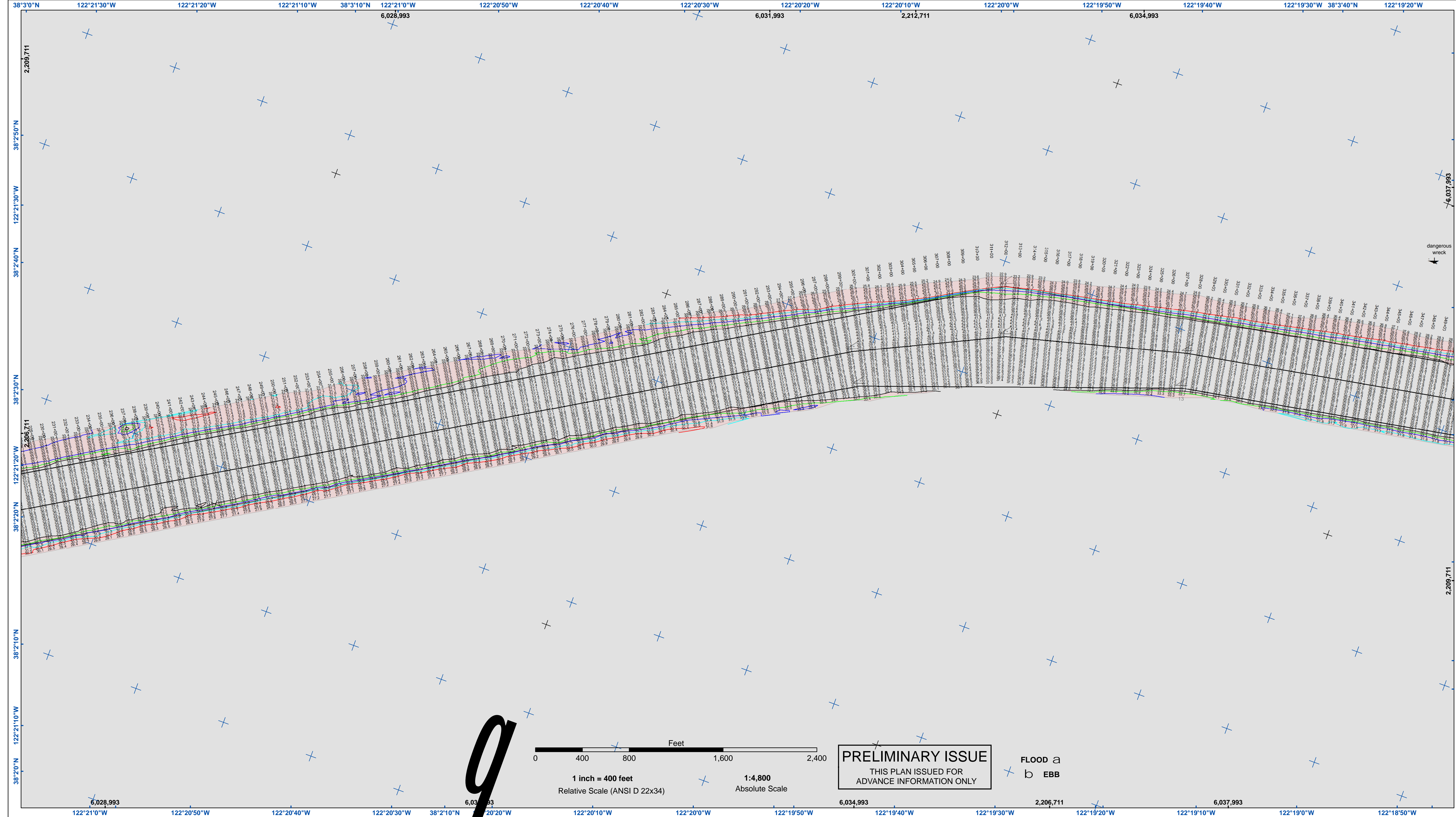
Sheet Reference Number
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- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*
- Countours
- 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

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 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.
 HORIZONTAL GPS CONTROL:
 COAST GUARD D-BEACON
 VERTICAL CONTROL:
 BENCHMARK: 5256 C (1976) USC&GS DISK, ELEV. 34.75 MLLW, NAVD 88 DATUM
 TIDE GAUGE LOCATED AT POINT PINOLE PIER.
 BENCHMARK: 5218 L (1976) USC&GS DISK, ELEV. 11.00 MLLW, NAVD 88 DATUM
 TIDE GAUGE LOCATED AT MARE ISLAND PIER 35.



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

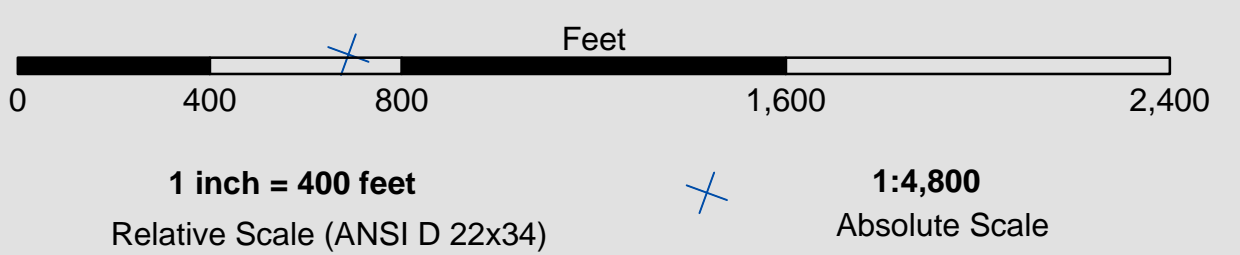
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Chart Date:	Aug 16, 2016
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	JOHN C. MORROW
Plotted By:	PDT
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 5, 11-12 AUGUST 2016

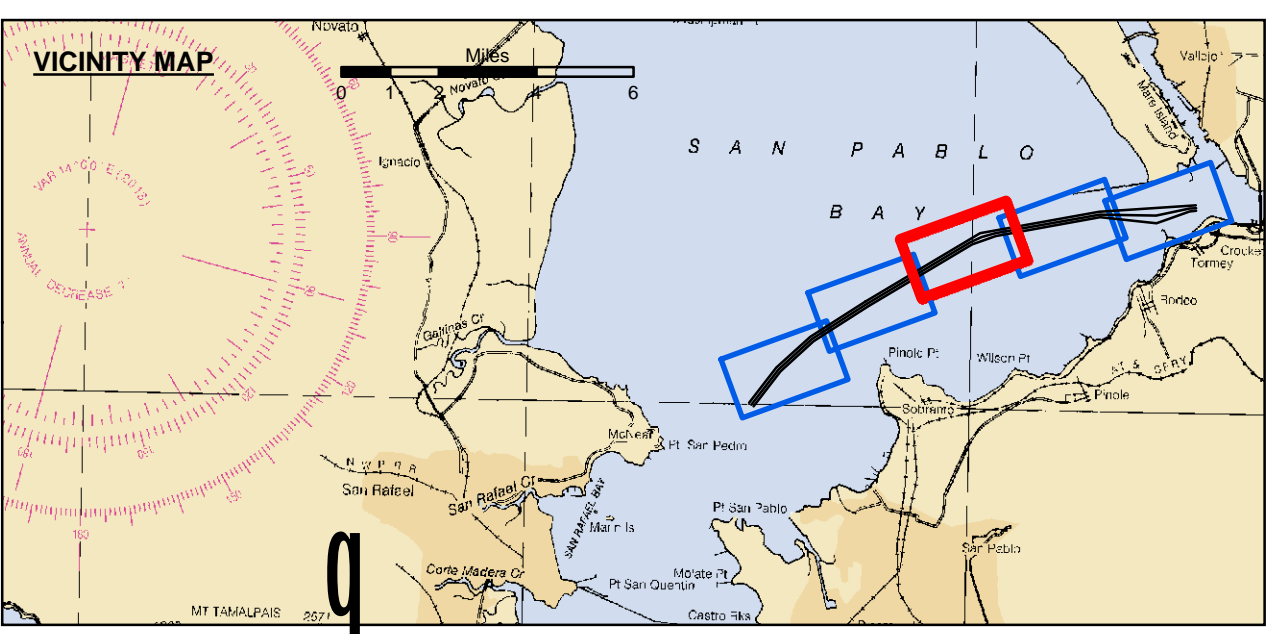
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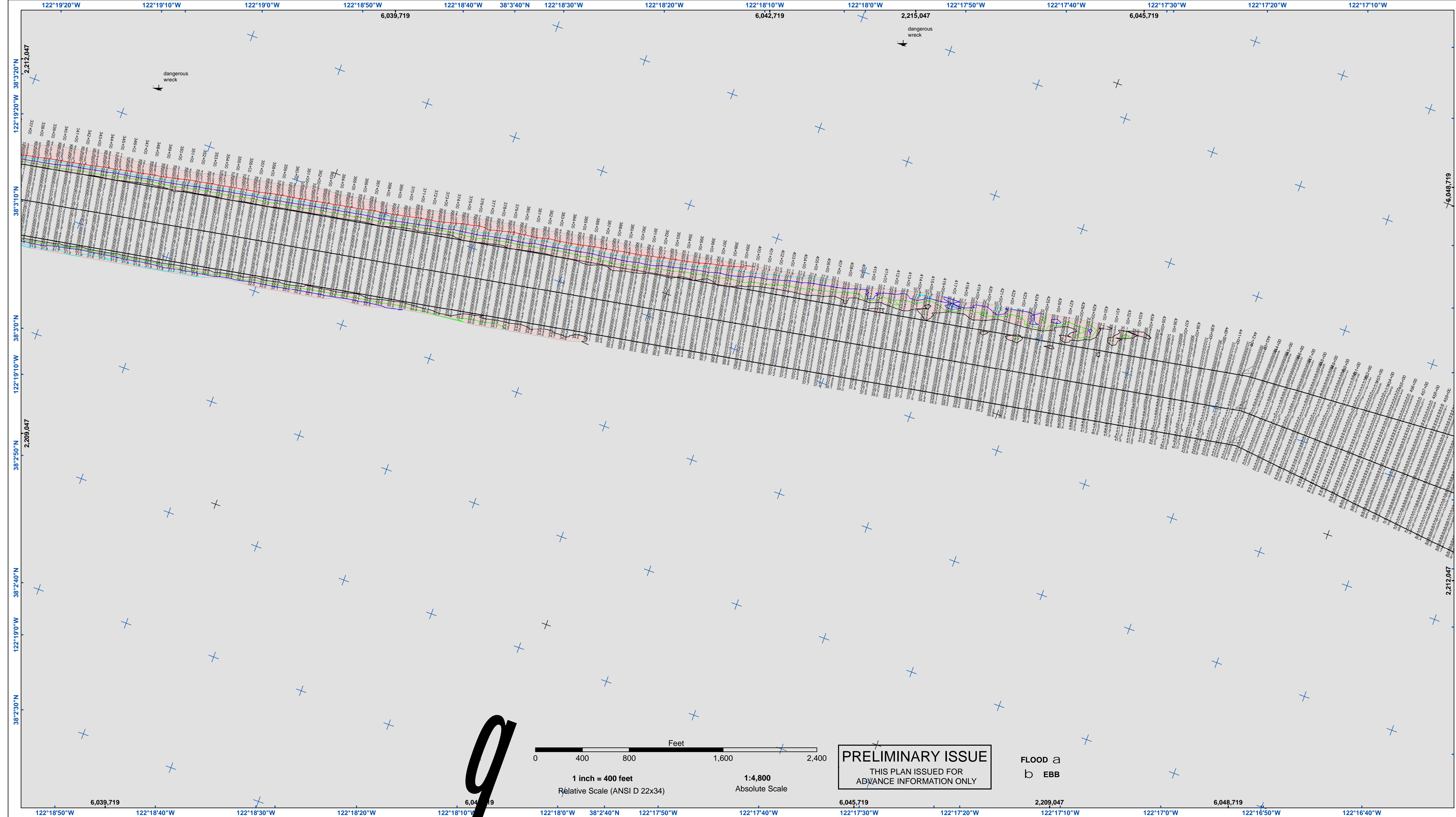
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|----------------------------|--------------------|-----------|
| Federal Navigation Channel | Beacon, General | Countours |
| Shoaling Area | Obstruction Point | -35 |
| Placement Area | Navigation Buoy | -34 |
| Anchorage Area | Navigation Buoy |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

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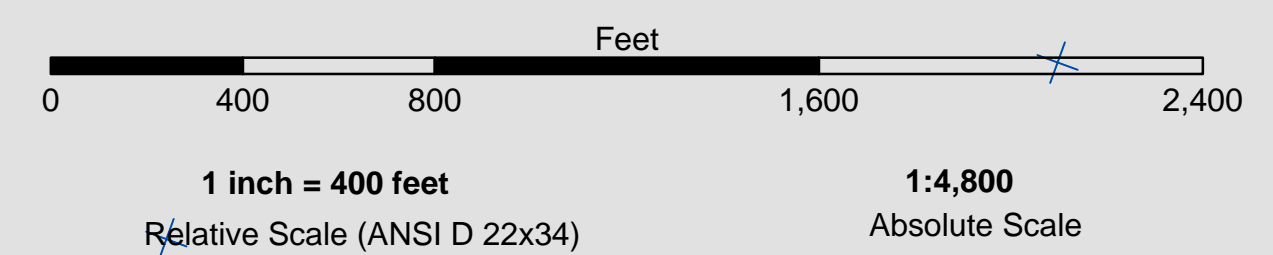
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Prepared Under the Direction of JOHN C. MORROW LT Colonel, C.E., District Engineer	Chart Date: Aug 16, 2016
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
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 SAN PABLO BAY

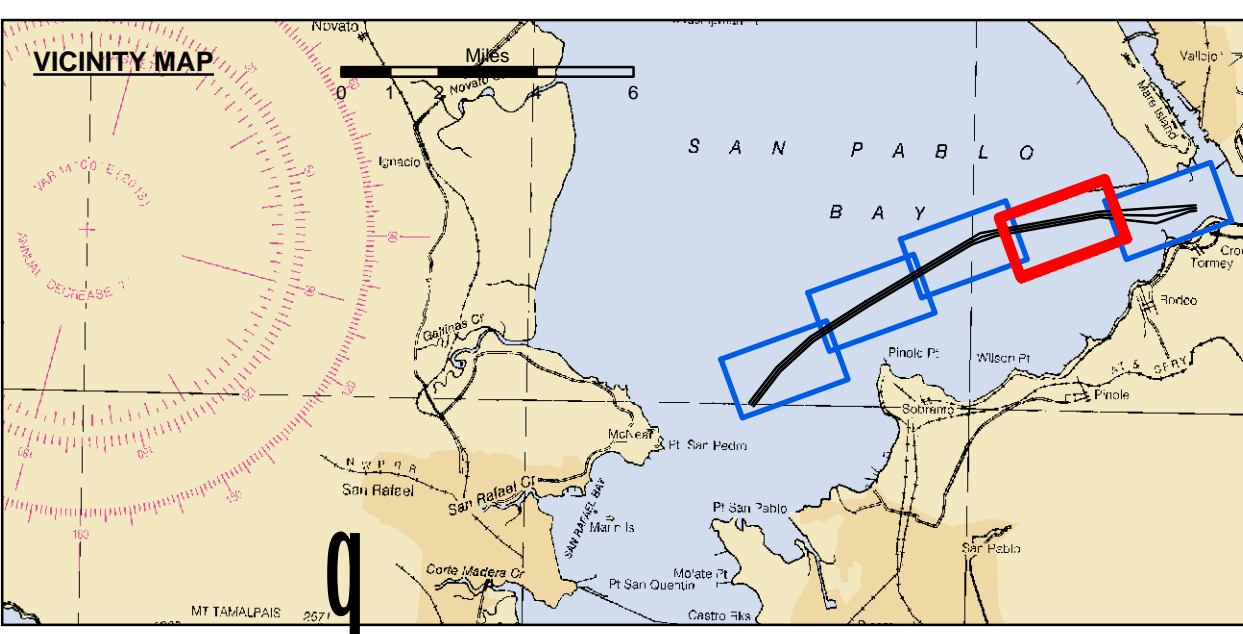
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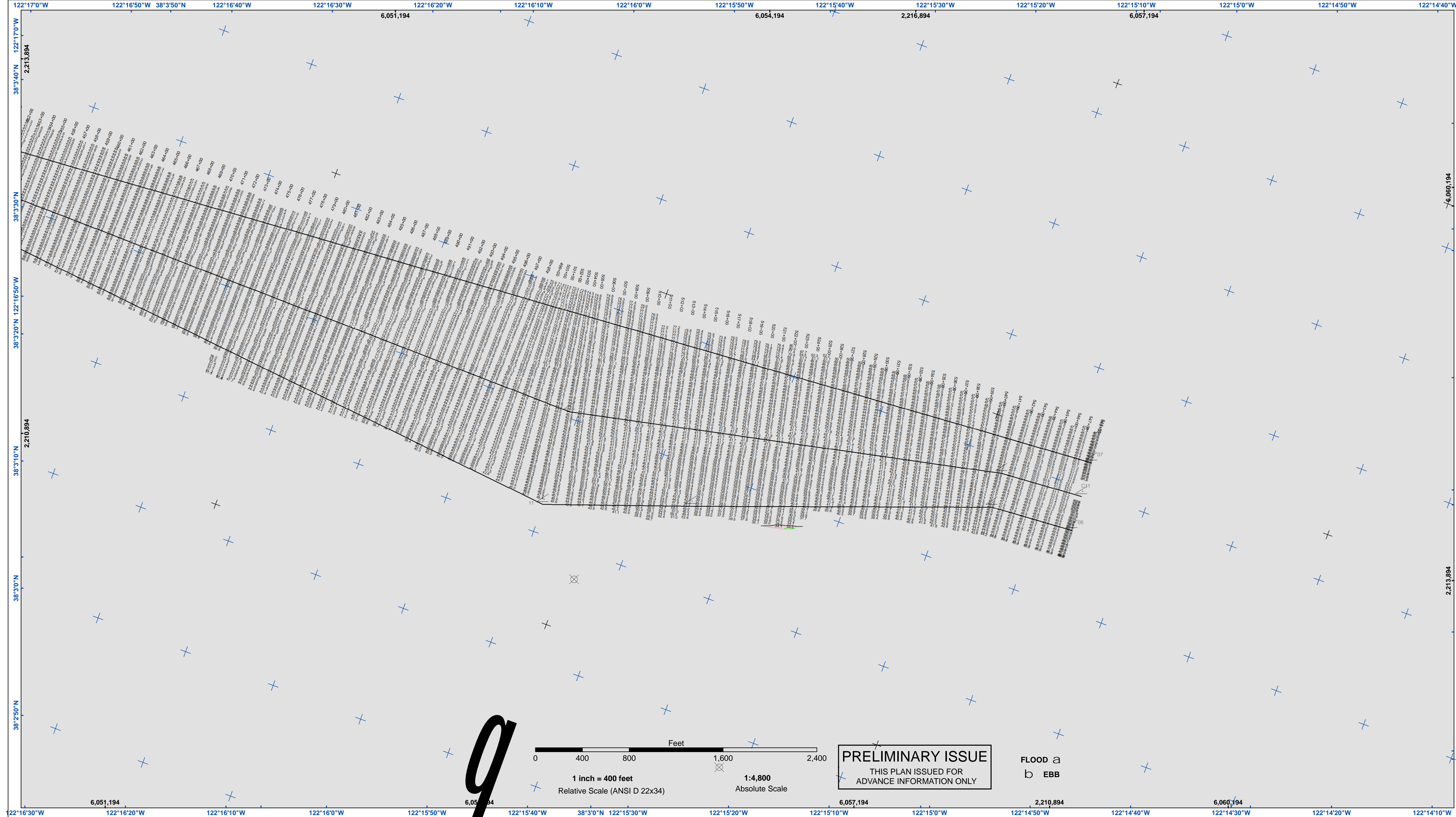
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 TIDE GAUGE LOCATED AT MARE ISLAND PIER 55.

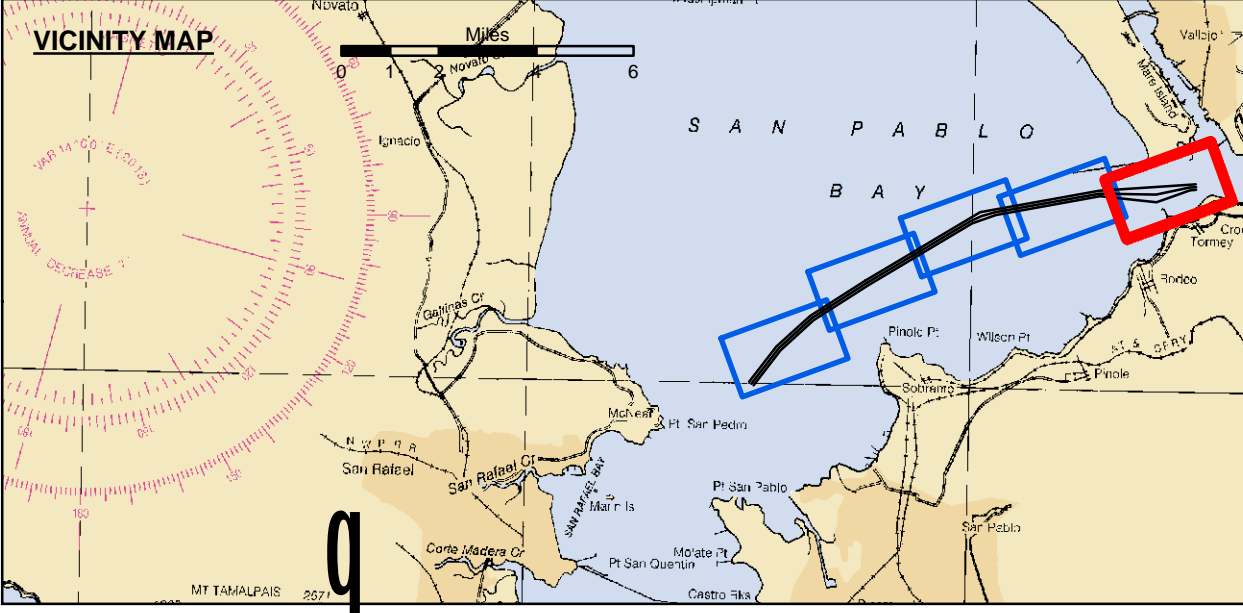


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Plotted by:	PDT
Checked by:	PDT
Drawn by:	PDT

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 5, 11-12 AUGUST 2016

Sheet
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5 of 5



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