

AnglePoint	POINT_X	POINT_Y
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02	6012570.00	2196164.00
03	6016237.00	2199512.00
04	6022215.00	2203334.00
05	6034692.58	2210783.40
06	6047610.83	2213082.81
07	6059067.95	2213781.27
08	6058127.86	2213182.59
09	6057419.43	2213135.37
10	6055006.55	2212298.87
11	6053815.20	2211848.50
12	6047716.66	2212492.26
13	6038393.66	2210459.23
14	6033802.66	2209535.23
15	6022551.66	2202836.23
16	6016604.00	2199034.00
17	6013013.00	2195756.00
18	6010090.00	2191976.00
C01	6009631.93	2192304.35
C02	6012791.00	2195960.00
C03	6016421.00	2199273.00
C04	6022385.00	2203086.12
C05	6033649.18	2209793.00
C06	6034836.66	2210359.38
C07	6036340.65	2210754.51
C08	6047663.65	2212787.53
C09	6053760.51	2212668.82
C10	6057399.48	2213434.70
C11	6058107.91	2213481.93

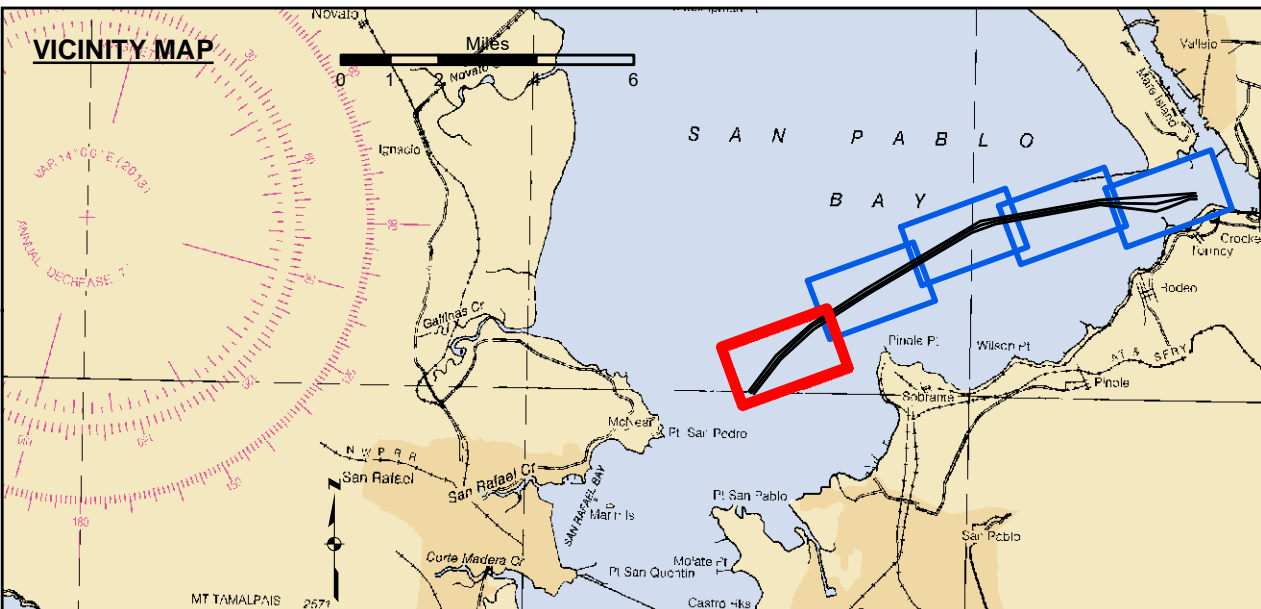
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 San Francisco District
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Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 20-24 OCTOBER 2022

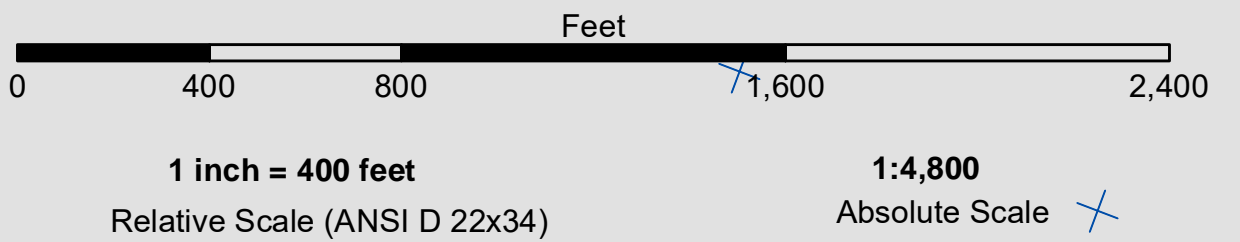
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Reference
Number
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Federal Navigation Channel	Beacon, General	Countours
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest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

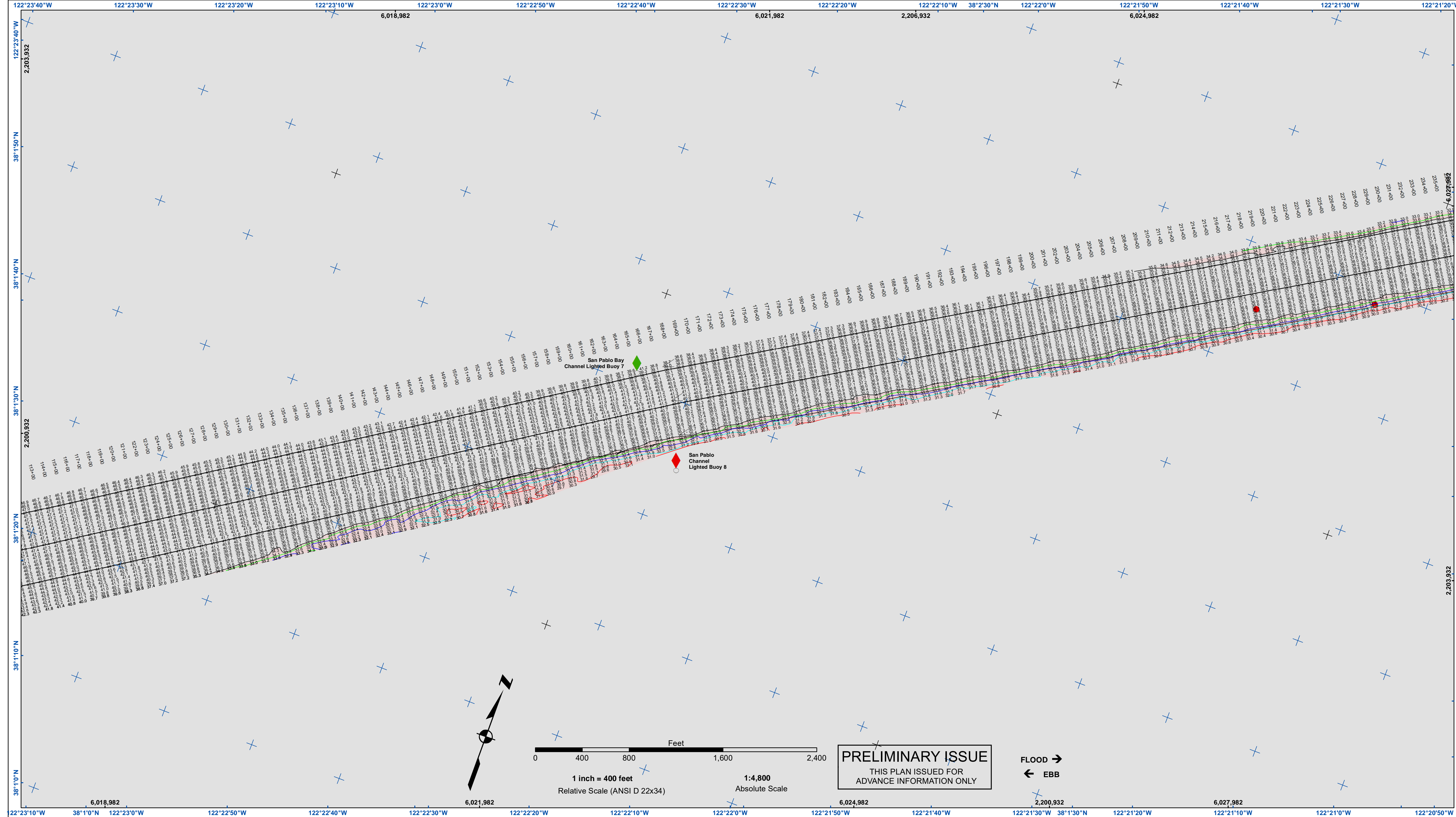
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 TIDAL EPOCH 1983-2001
 TIDAL DATUM CONTROL STATION(S):
 - 9415056 PINOLE POINT - JUNE 2014
 - 9415218 MARE ISLAND - AUG 2013

HORIZONTAL CONTROL DATUM:
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 OPUS 3/19/2020 | 9415056
 5218 L 1976 | 5218 R 2006 | PID: BBCN57
 PID: BBC281 | OPUS 8/11/2010 | 9415218 | 9415218
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 - RESON 750-R SINGLE-HEAD MULTIBEAM ECHOSOUNDER
 - POS MV 2201 VERS HW2.5-12
 - IMU TYPE 42
 - TRIMBLE AT1675-540TS GPS ANTENNA



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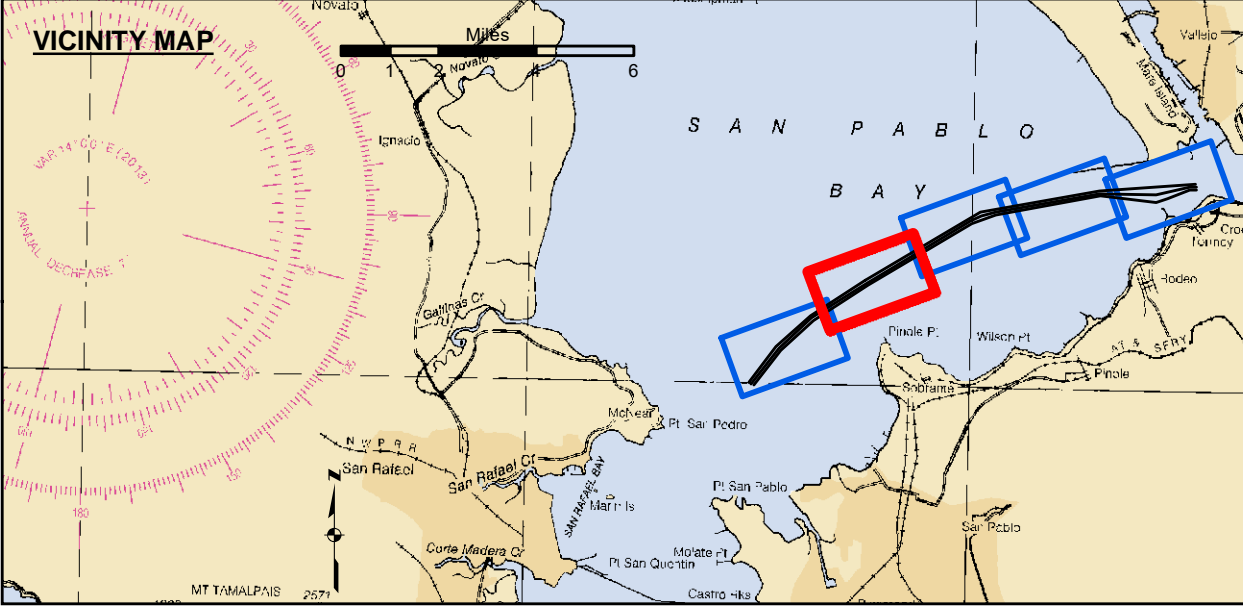
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Prepared Under the Direction of KEVIN P. ARNETT LT Colonel, C.E., District Engineer	Chart Date: Oct 27, 2022
Submitted by: Hydro Survey Team Leader	Designed by: PDT
Recommended by: Chief, Hydro Survey Section	Checked by: PDT
Approved by: Chief, Construction Branch	Drawn by: PDT

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 20-24 OCTOBER 2022

Sheet
Reference
Number
2 of 5



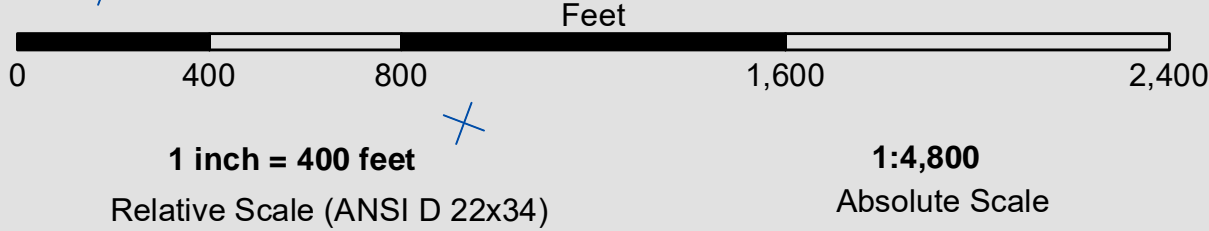
- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*
- Countours**
- 35
- 34
- 33
- 32
- 31

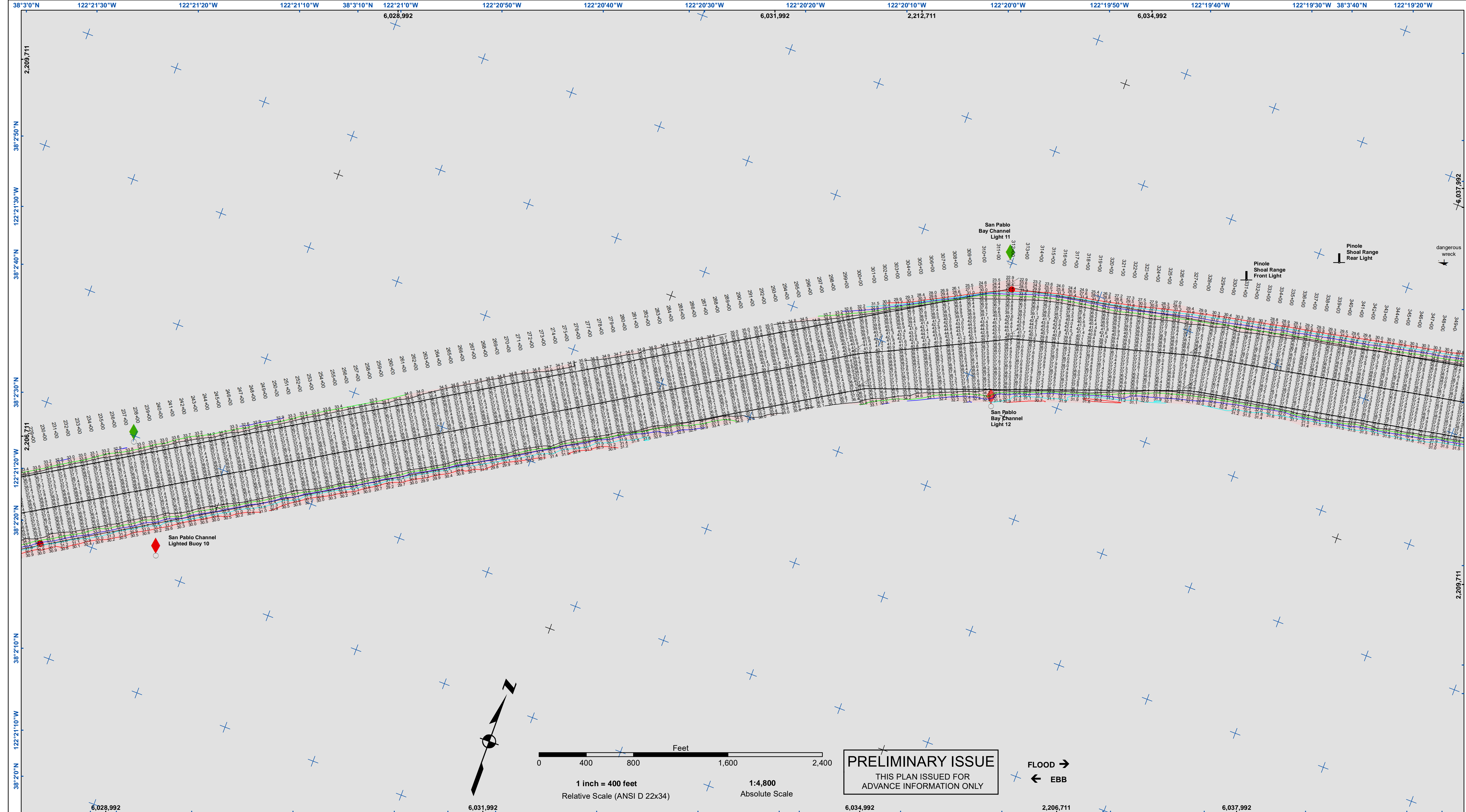
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 TIDAL DATUM CONTROL STATION(S):
 - 9415056 PINOLE POINT - JUNE 2014
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 S/V RANDY CUMMINGS
 - RESON 150-R SINGLE-HEAD MULTIBEAM ECHOSOUNDER
 - POS MV 220 VERS HW2.5-12
 - IMU TYPE 42
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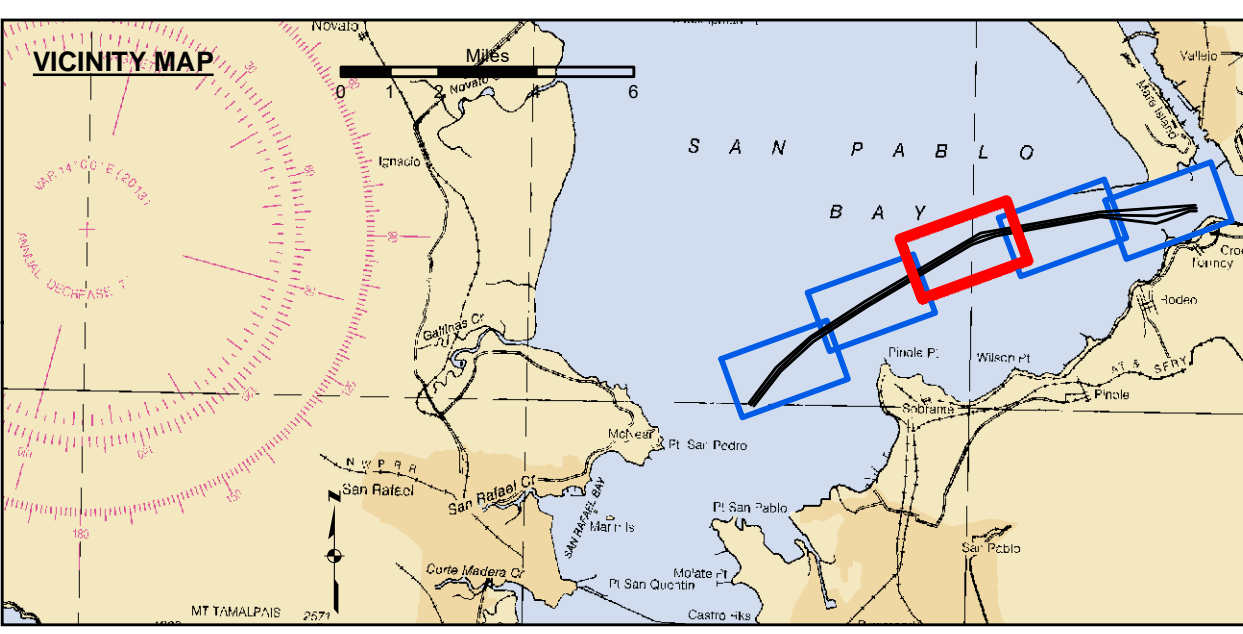


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Prepared Under the Direction of LT COLONEL C.E. DISTRICT ENGINEER KEVIN P. ARNETT	Surveyed By: PDT	Chart Date: Oct 27, 2022
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: PDT
Approved: Chief, Construction Branch		

CALIFORNIA
SAN PABLO BAY
**PINOLE SHOALS
CONDITION SURVEY
20-24 OCTOBER 2022**

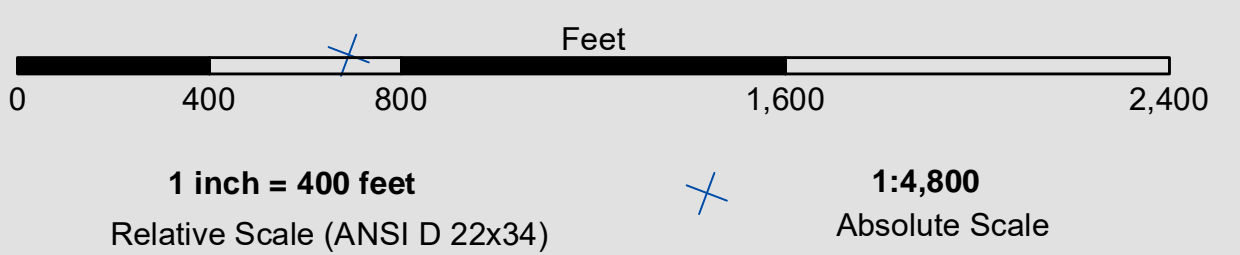
**Sheet
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Number
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Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
Wreck Area	Shoalest Sounding*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

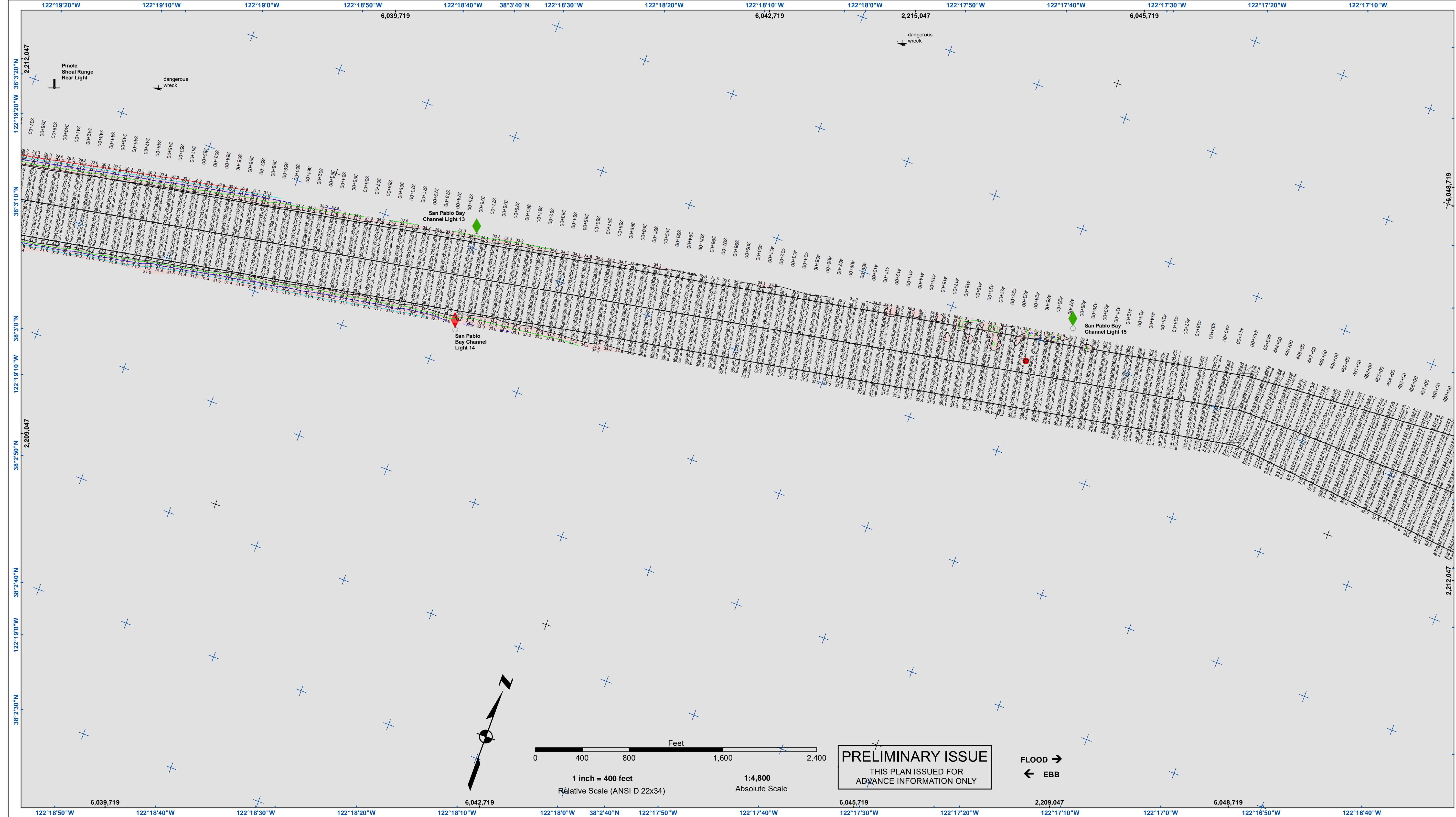
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VERTICAL DATUM:
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TIDAL EPOCH 1983-2001
TIDAL DATUM CONTROL STATION(S):
- 9415056 PINOLE POINT - JUNE 2014
- 9415218 MARE ISLAND - AUG 2013

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CONTROL:
POINT PINOLE 4 RESET | PID: JT2895 | BM 5056 A | PID: BBCN55
OPUS 3/19/2020 | OPUS 9415056
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- POS MV 220i VERS HW2.5-12
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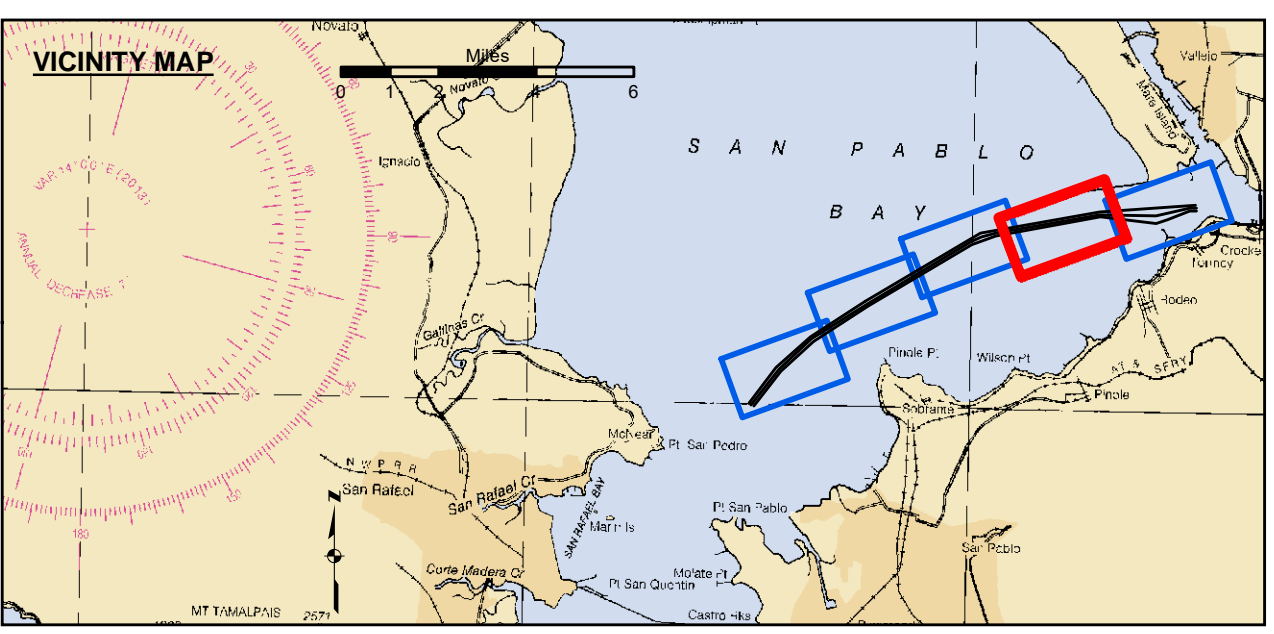
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Submitted: Hydro Survey Team Leader	Plotted By: PDT	Oct 27, 2022
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Designed by:
Approved: Chief, Construction Branch	Drawn by: PDT	

CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 20-24 OCTOBER 2022

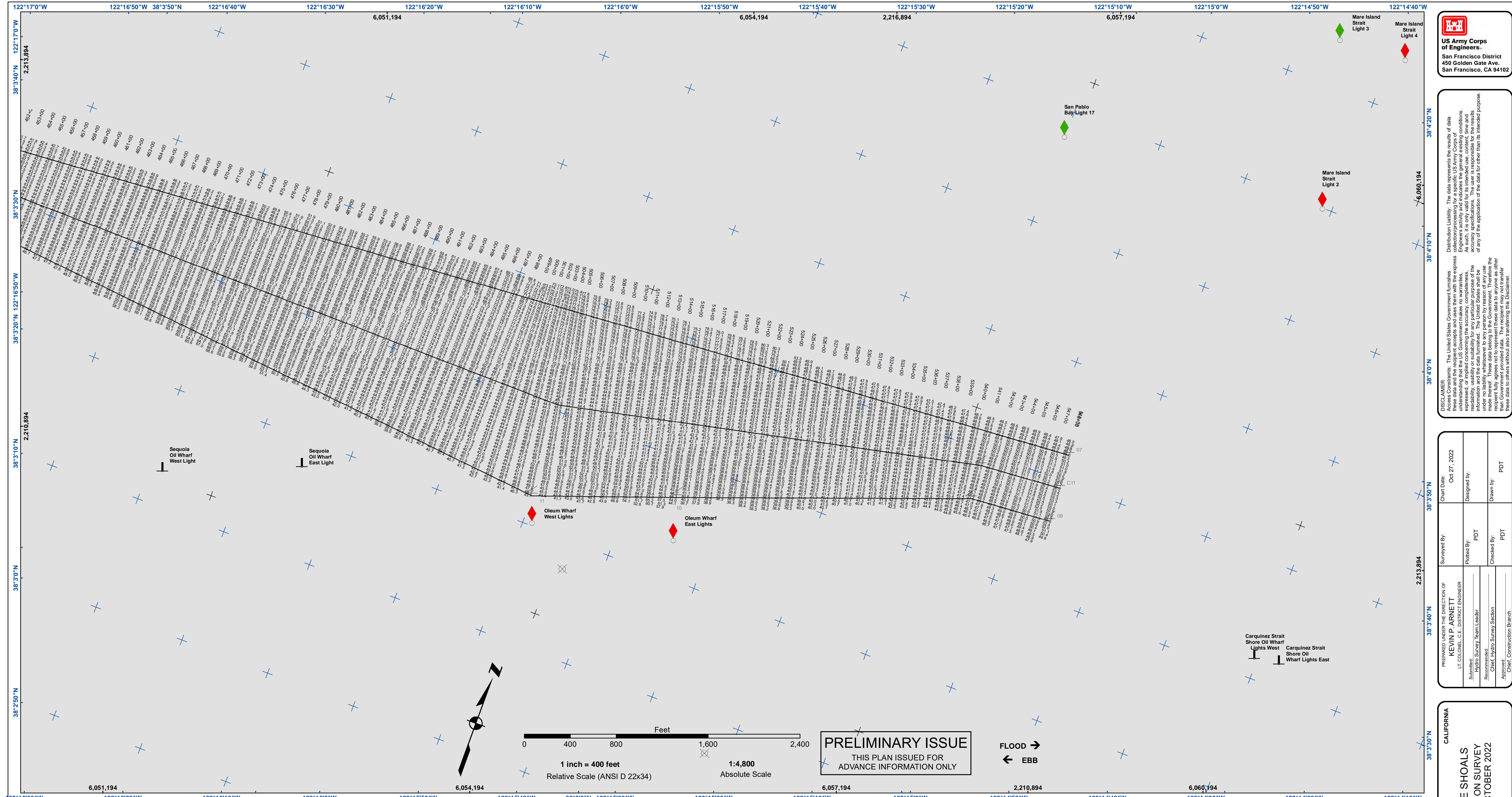
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Reference
Number
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Federal Navigation Channel	Beacon, General	Countours
Shoaling Area	Obstruction Point	-35
Placement Area	Navigation Buoy	-34
Anchorage Area	Navigation Buoy	-33
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Submerged Wreck		-31
Angle Point		

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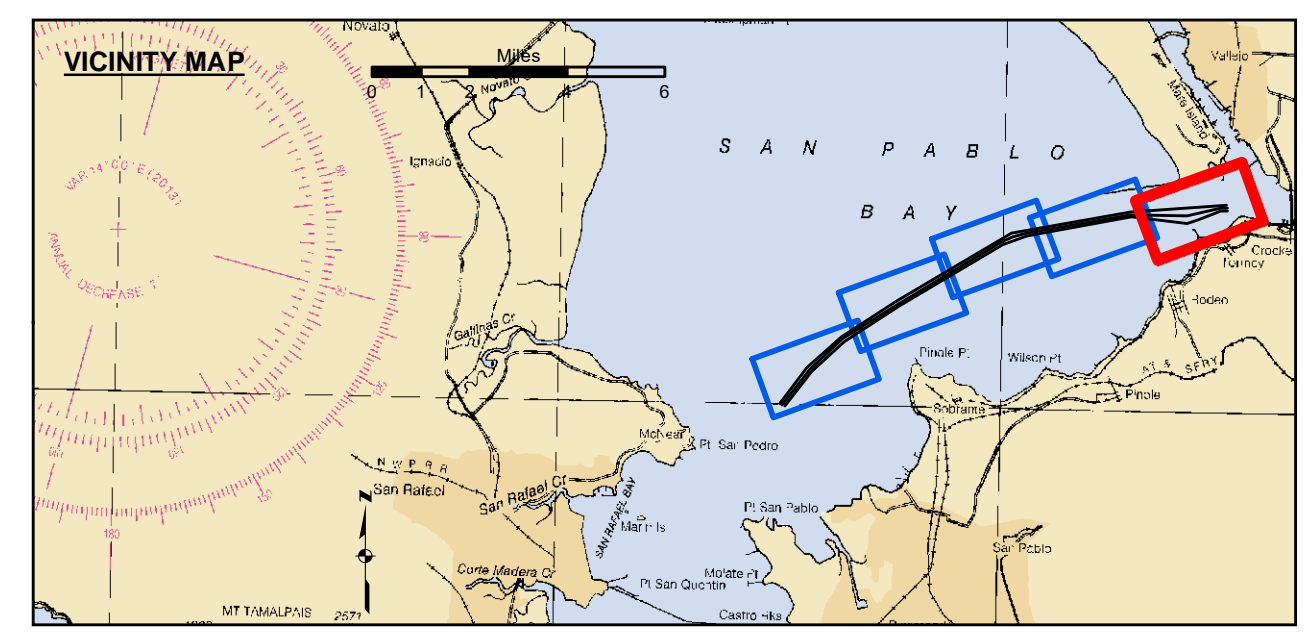
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CALIFORNIA
PINOLE SHOALS
 CONDITION SURVEY
 20-24 OCTOBER 2022

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Federal Navigation Channel	Beacon, General	Contours
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