

**N.A.D. 1983 FEET COORDINATES**

Channel Angle Point	Easting	Northing
01	6010230.66	2162394.62
02	6009436.76	2161650.06
03	6010702.46	2161282.52
04	6013280.69	2158029.15
05	6013071.04	2159051.01
06	6016426.10	2157649.80
07	6013946.57	2158590.79
08	6020299.03	2156972.78
09	6019811.99	2157565.50
10	6023187.74	2156366.30
11	6022179.38	2157068.47
12	6024797.57	2156256.37
13	6023175.24	2156977.58
14	6025133.92	2156630.24
15	6024071.72	2157243.76
16	6025096.44	2157620.99
17	6024244.63	2157572.06
18	6024794.33	2158699.33
19	6023863.13	2159896.61
20	6024629.99	2159700.65
21	6023718.07	2161814.06
22	6024470.69	2161806.34
23	6023659.10	2161929.33
24	6023871.49	2162011.81
25	6022130.19	2163218.69
26	6022259.11	2163371.56

**N.A.D. 1983 FEET COORDINATES**

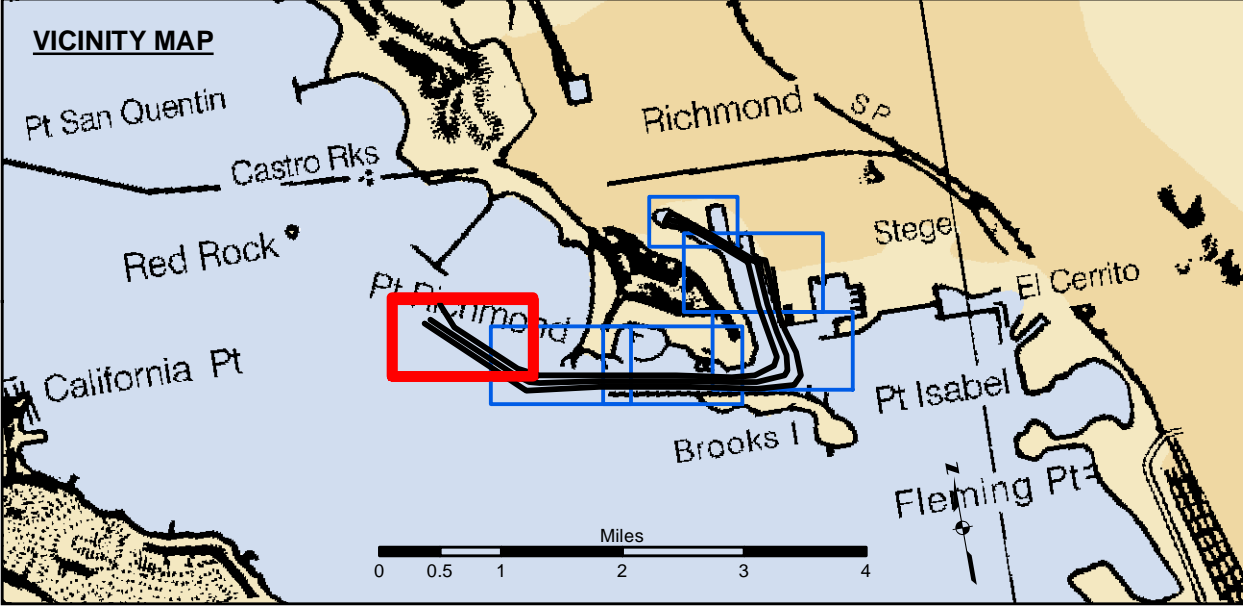
Centerline Angle Point	Easting	Northing
C01	6009645.81	2161871.50
C02	6012865.31	2158832.66
C03	6013468.42	2158386.31
C04	6013908.41	2158274.43
C05	6023181.49	2156671.94
C06	6024434.65	2156750.07
C07	6024602.82	2156937.00
C08	6024670.54	2157596.53
C09	6024272.27	2159641.94
C10	6024094.38	2161810.20
C11	6023765.30	2161970.57
C12	6022194.65	2163295.13

**US Army Corps of Engineers**  
 San Francisco District  
 450 Golden Gate Ave  
 San Francisco, CA 94102

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Prepared Under the Direction of:	Chart Date:
KEVIN P. ARNETT	Jan 10, 2022
Surveyed By:	Designed by:
PDT	PDT
Plotted By:	Drawn by:
PDT	PDT
Checked By:	
PDT	
Approved:	
Chief, Construction Branch	

ALAMEDA COUNTY  
 CALIFORNIA  
**RICHMOND INNER HARBOR**  
 CONDITION SURVEY  
 06 JANUARY 2022



Federal Navigation Channel	Beacon, General	<b>Contours</b>
Shoaling Area	Obstruction Point	-38
Placement Area	Navigation Buoy	-37
Anchorage Area	Navigation Buoy	-36
Wreck Area	Shoalest Sounding*	-35
Submerged Wreck		-34
Angle Point		

**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.  
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 \*SHOALEST SOUNDING PER QUARTER PER REACH

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BASE MAPS ARE USDA NAIP 2010.

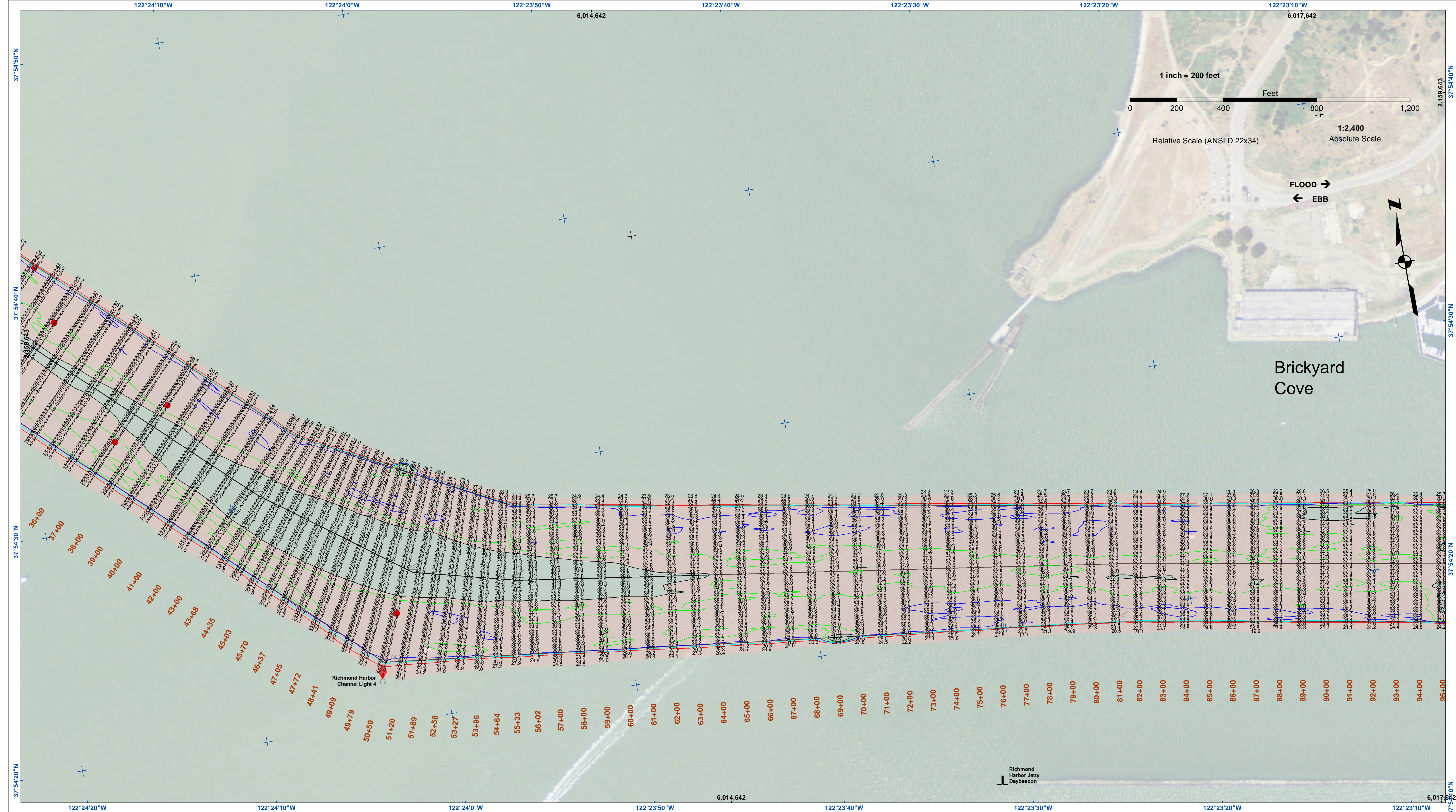
THE PROJECT DEPTHS ARE AS FOLLOWS:  
 INNER HARBOR CHANNEL -37.5 FEET.  
 SANTE FE CHANNEL -30 FEET.

(INNER HARBOR CHANNEL) BENCHMARK A-658 ELEV 15.81 FT. MLLW.  
 BENCHMARK #2 (1032) USCGS DISK OLD FORD PLANT 16.0825 FT. MLLW.  
 B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW.

TIDE GAGE LOCATION: MON B-1.  
 HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.  
 VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY

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**Reference**  
**Number**  
**1 of 6**





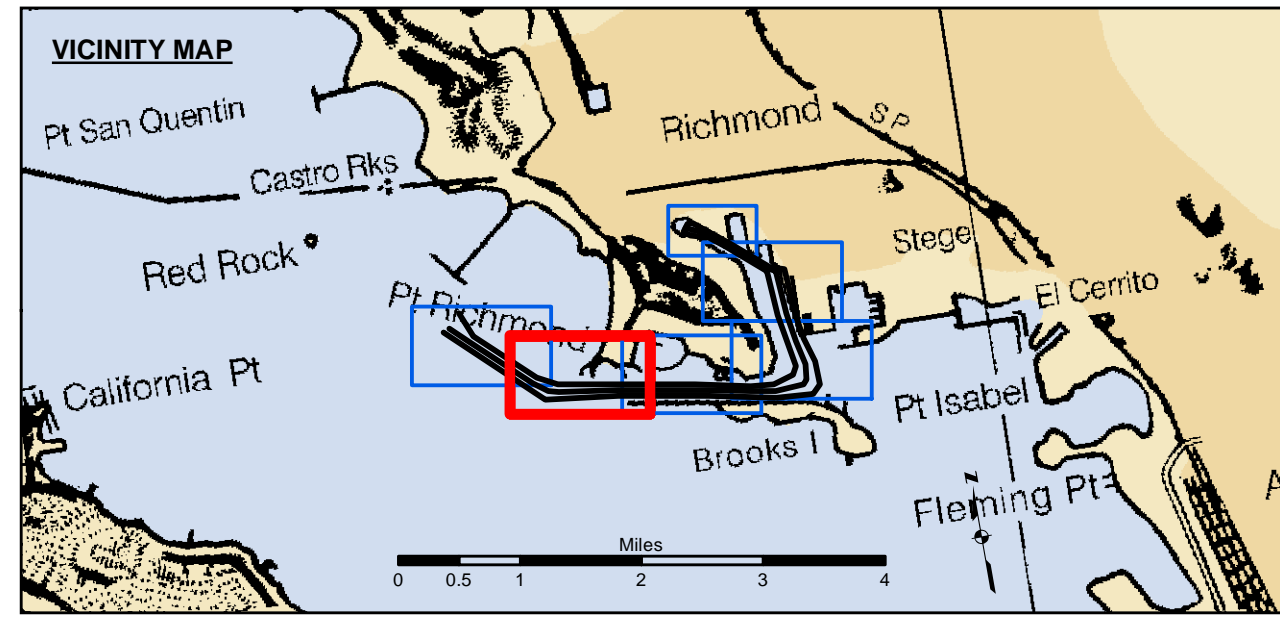
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Prepared Under the Direction of	KEVIN P. ARNETT	Chart Date:	Jan 10, 2022
Submitted by	Hydro Survey Team Leader	Designed by:	PDT
Recommended by	Chief, Hydro Survey Section	Checked by:	PDT
Approved by	Chief, Construction Branch	Drawn by:	PDT

CALIFORNIA  
 ALAMEDA COUNTY  
**RICHMOND INNER HARBOR**  
 CONDITION SURVEY  
 06 JANUARY 2022

**Sheet**  
**Reference**  
**Number**  
**2 of 6**

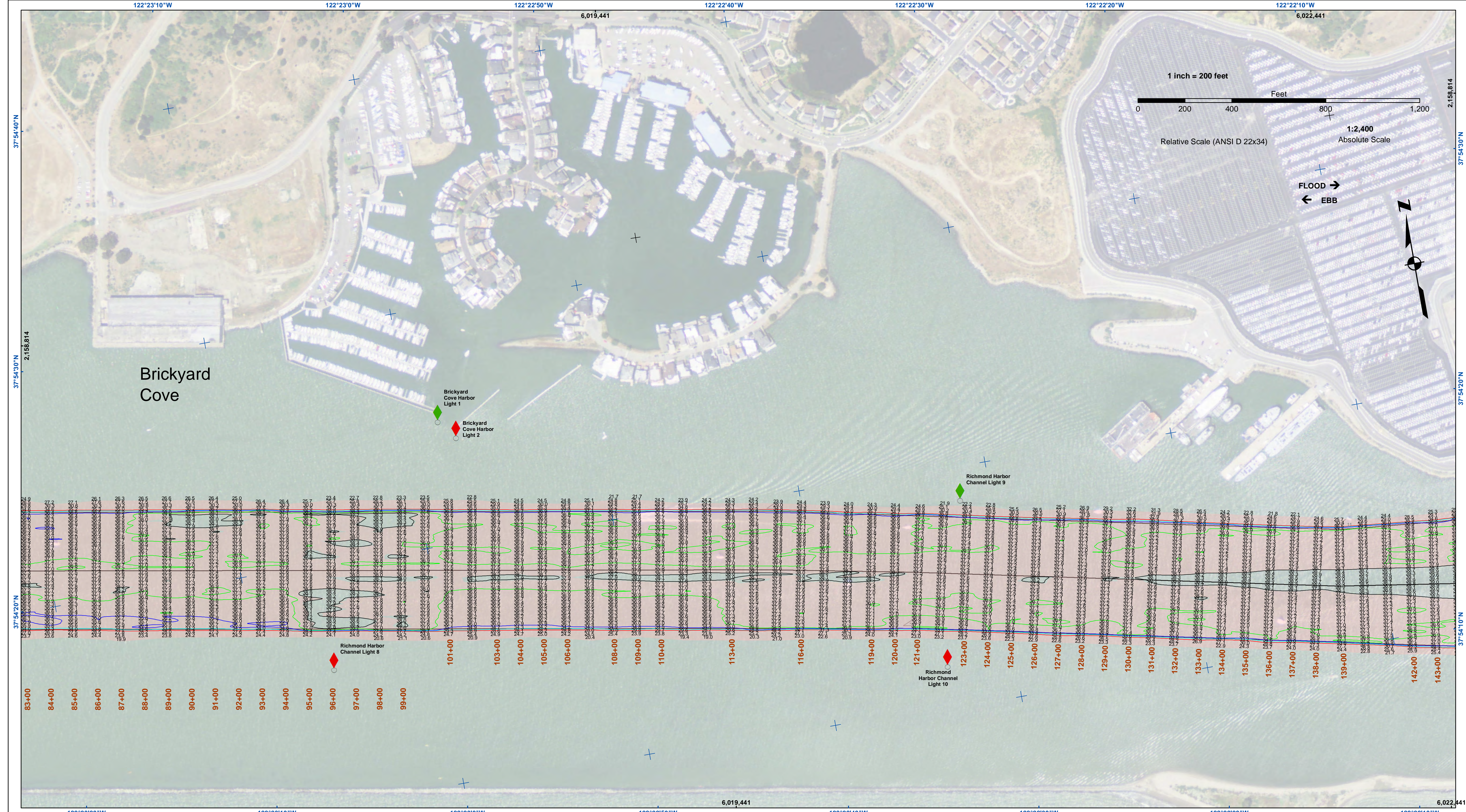


Federal Navigation Channel	Beacon, General	<b>Contours</b>
Shoaling Area	Obstruction Point	-38
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Angle Point		

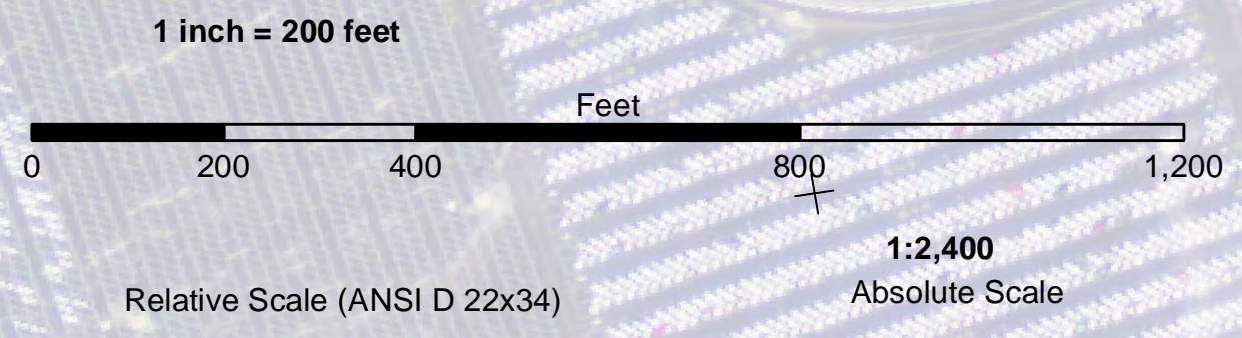
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 SURVEYED BY THE CORPS OF ENGINEERS.  
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 SANTE FE CHANNEL -30 FEET.  
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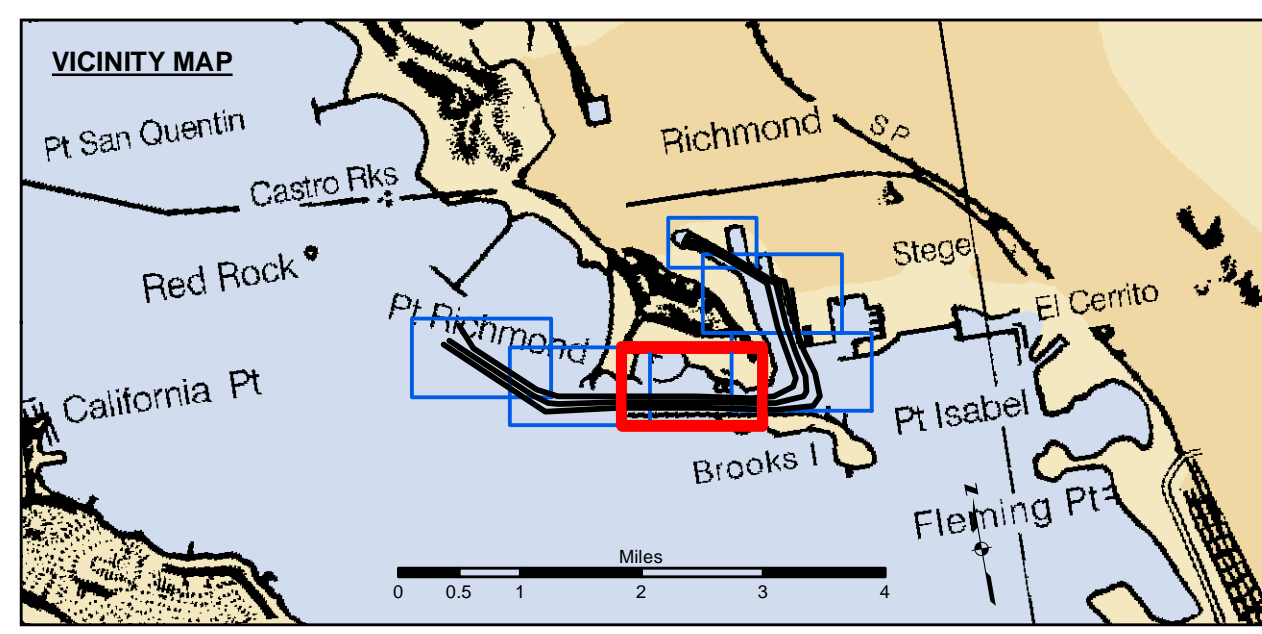
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Designed by:	PDT
Surveyed By:	PDT
Plotted By:	PDT
Checked By:	PDT
Drawn by:	PDT

ALAMEDA COUNTY  
**RICHMOND INNER HARBOR**  
 CONDITION SURVEY  
 06 JANUARY 2022



Federal Navigation Channel	Beacon, General	<b>Contours</b>
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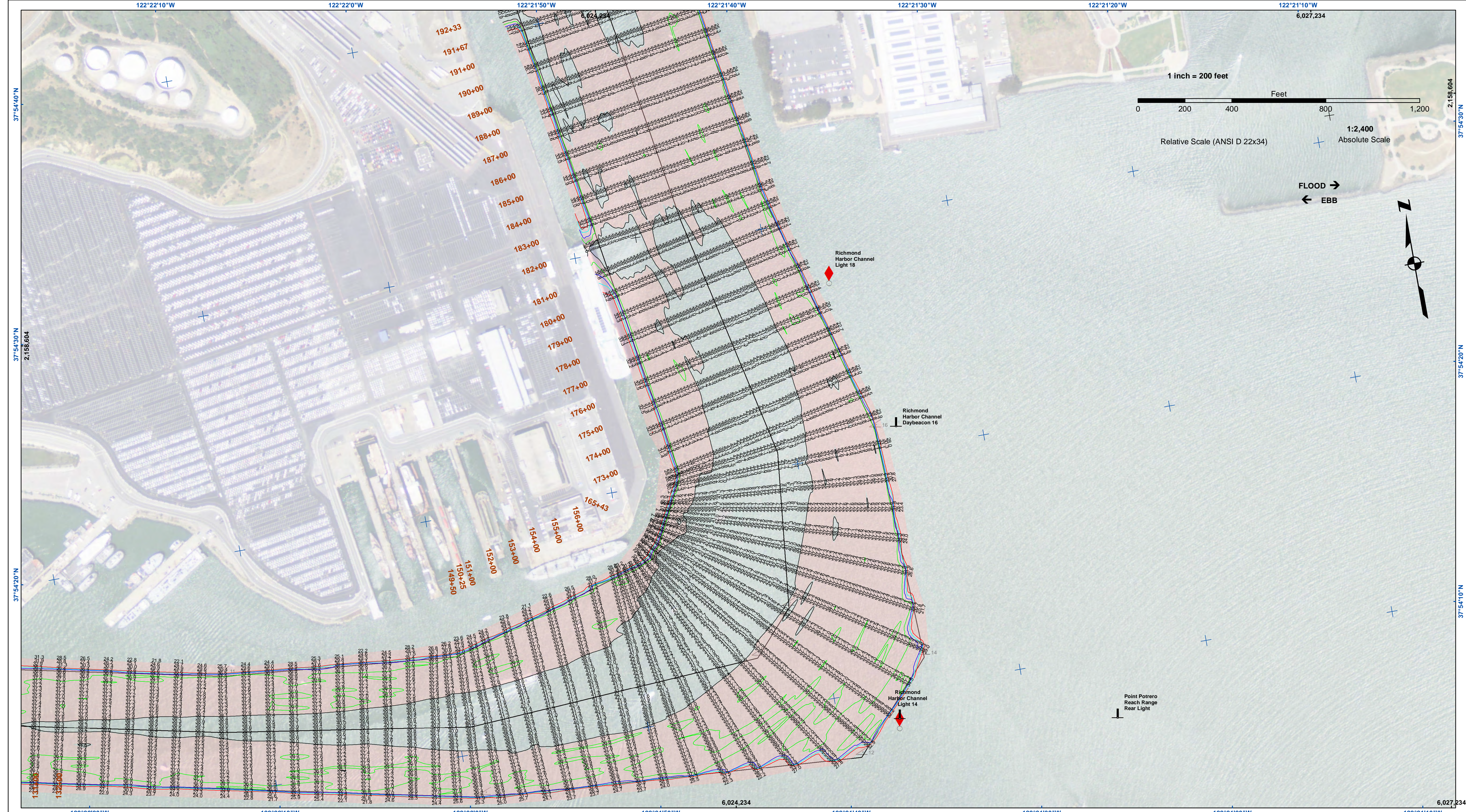
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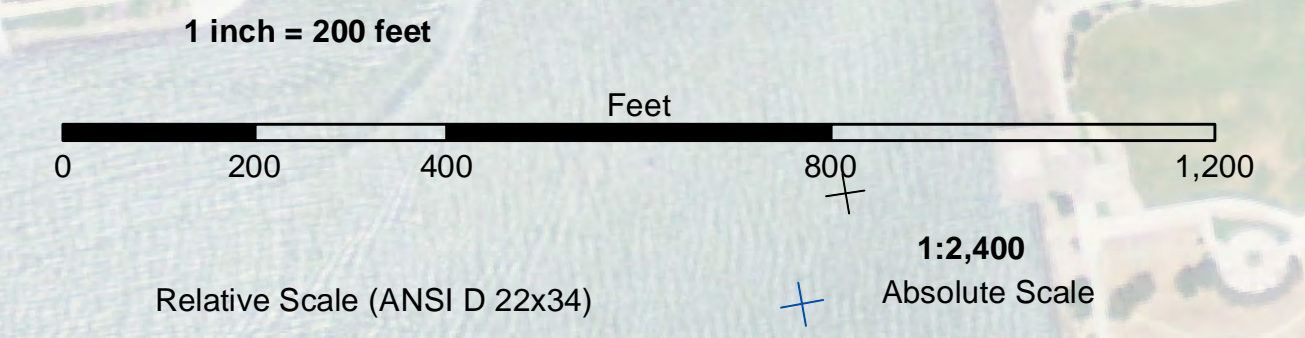
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TIDE GAGE LOCATION: MON B-1.  
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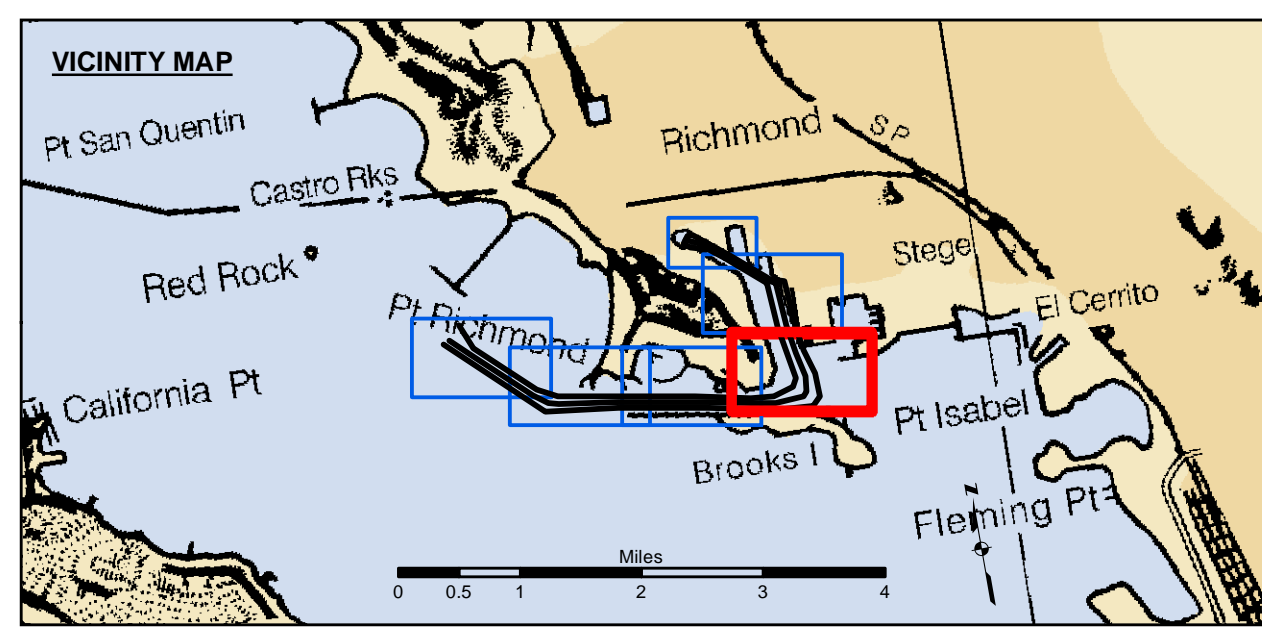


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Designed by:	PDT
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- Federal Navigation Channel
  - Shoaling Area
  - Placement Area
  - Anchorage Area
  - Wreck Area
  - Submerged Wreck
  - Angle Point
  - Beacon, General
  - Obstruction Point
  - Navigation Buoy
  - Navigation Buoy
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- Contours**
- 38
  - 37
  - 36
  - 35
  - 34

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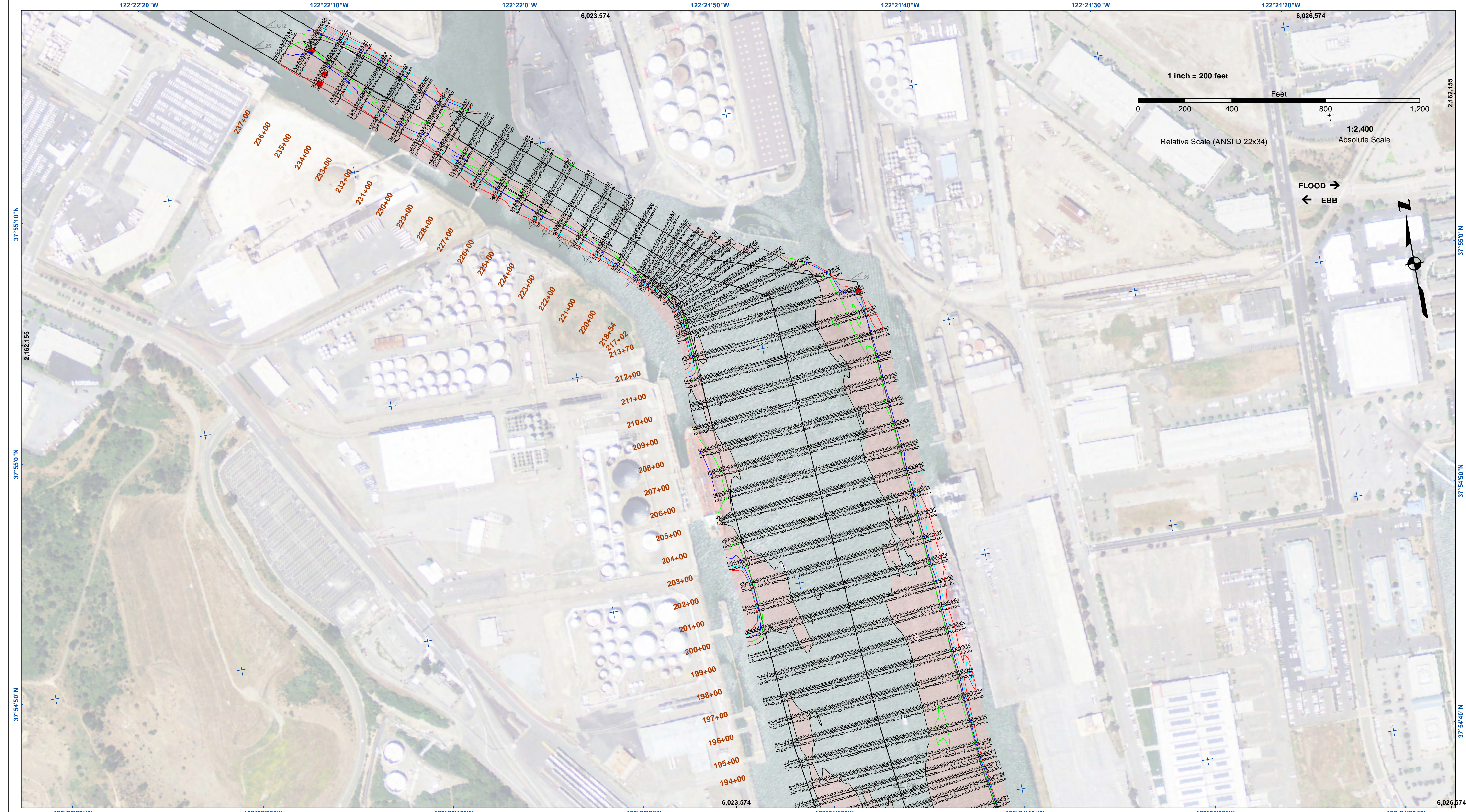
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TIDE GAGE LOCATION: MON B-1.  
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CALIFORNIA  
 ALAMEDA COUNTY  
**RICHMOND INNER HARBOR**  
 CONDITION SURVEY  
 06 JANUARY 2022

**Sheet**  
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**4 of 6**



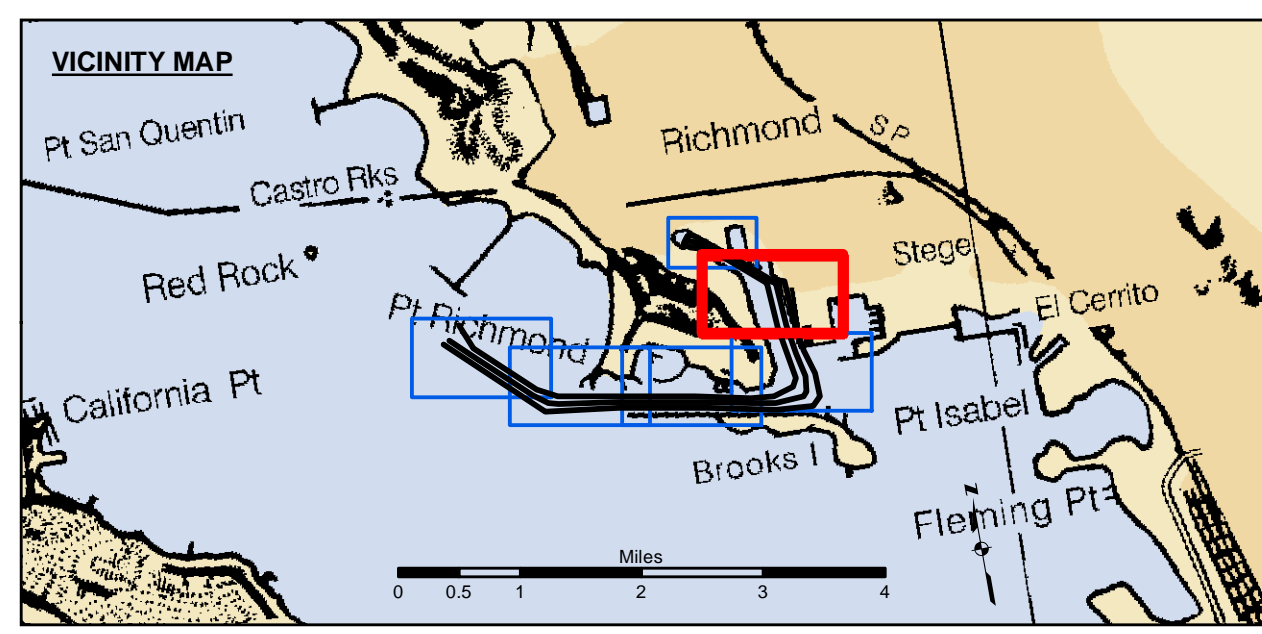


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