

PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

FLOOD a
b EBB

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

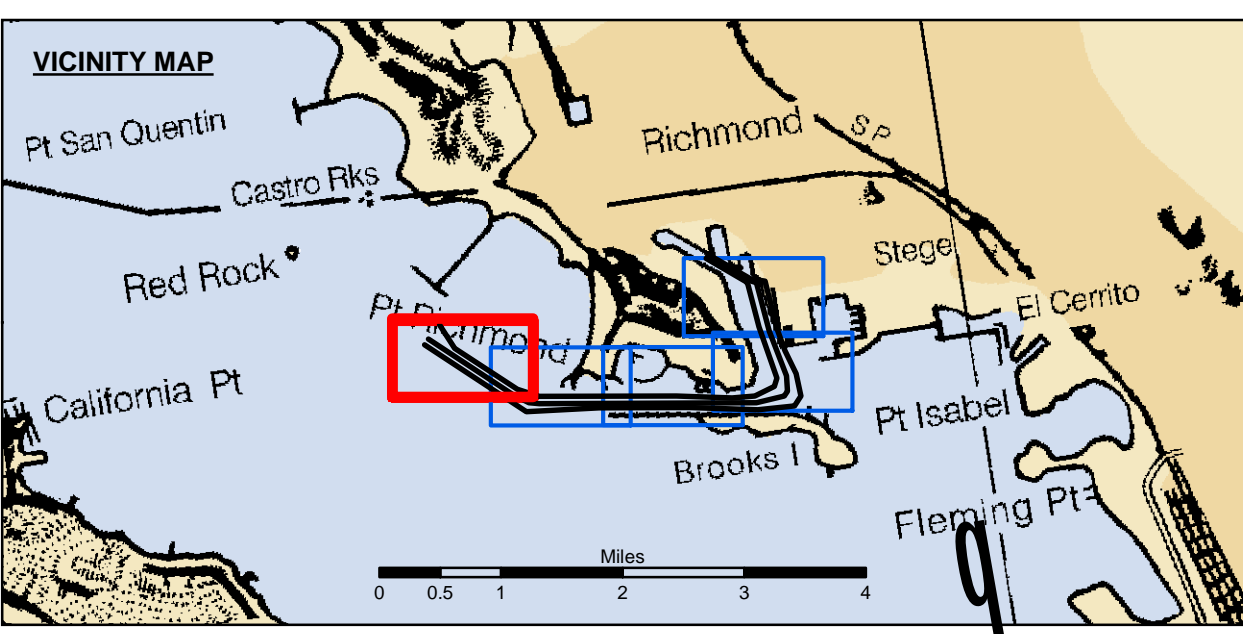
Centerline Angle Point	Easting	Northing
C01	6009645.81	2161871.50
C02	6012865.31	2158832.66
C03	6013468.42	2158386.31
C04	6013908.41	2158274.43
C05	6023181.49	2156671.94
C06	6024434.65	2156750.07
C07	6024602.82	2156937.00
C08	6024670.54	2157596.53
C09	6024272.27	2159641.94
C10	6024094.38	2161810.20
C11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



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Prepared Under the Direction of	JOHN C. MORROW	Chart Date	Jul 28, 2016
Surveyed By	PDT	Designed by	PDT
Plotted By	PDT	Drawn by	PDT
Checked By	PDT		

CALIFORNIA
RICHMOND INNER HARBOR
CONDITION SURVEY
26-27 JULY 2016



- 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*
- Contours**
- 38
- 37
- 36
- 35
- 34

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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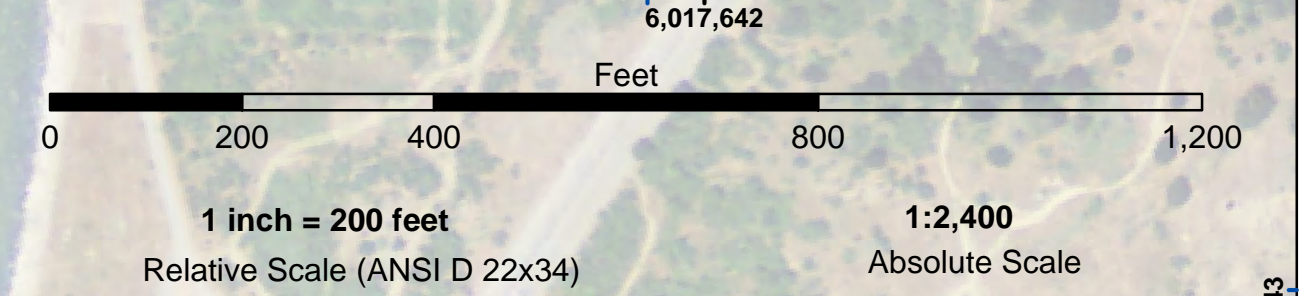
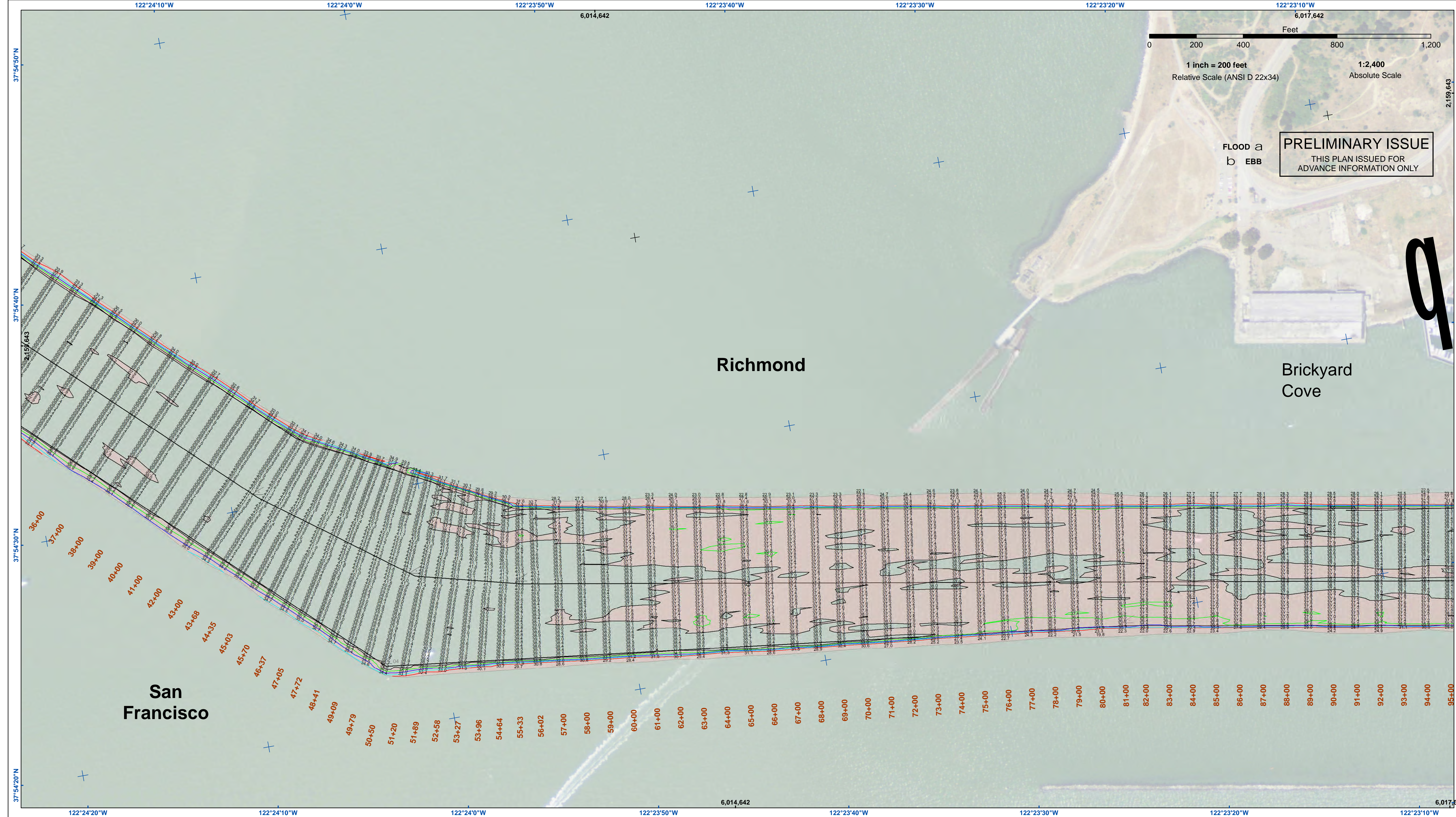
BASE MAPS ARE USDA NAIP 2010.

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INNER HARBOR CHANNEL -37.5 FEET.
SANTE FE CHANNEL -30 FEET.

(INNER HARBOR CHANNEL) BENCHMARK A-556 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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1 of 5



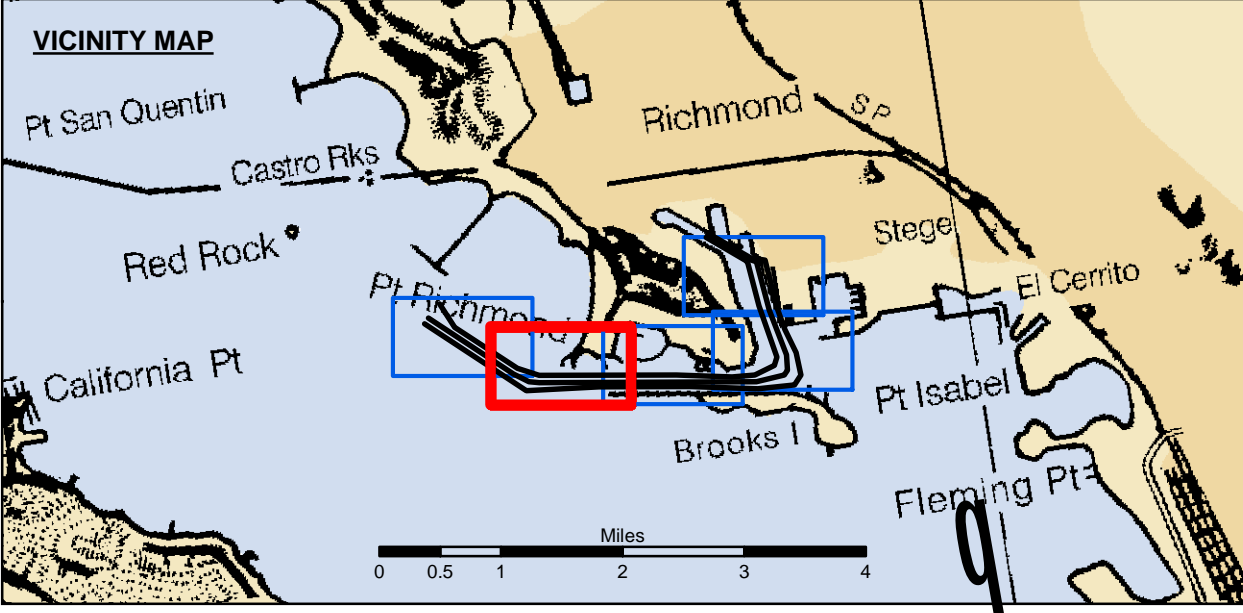
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Surveyed By	Plotted By	Designed by	
LT COLONEL, C.E., DISTRICT ENGINEER	PDT	PDT	
Submitted	Recommended	Checked By	
Hydro Survey Team Leader	Chief, Hydro Survey Section	PDT	
Approved	Chief, Construction Branch		PDT

CALIFORNIA
ALAMEDA COUNTY
RICHMOND INNER HARBOR
CONDITION SURVEY
26-27 JULY 2016



	Federal Navigation Channel		Beacon, General	Contours	
	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				

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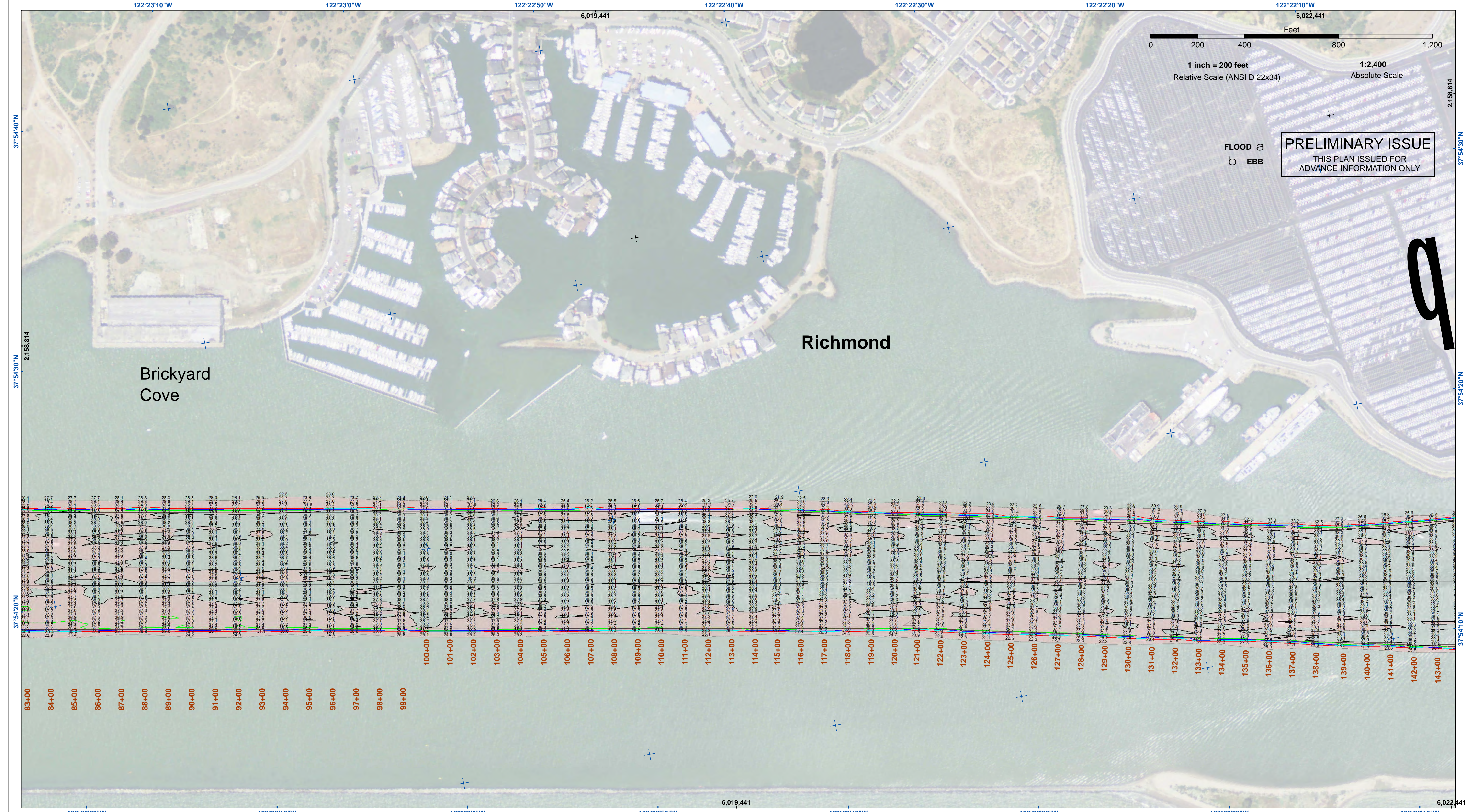
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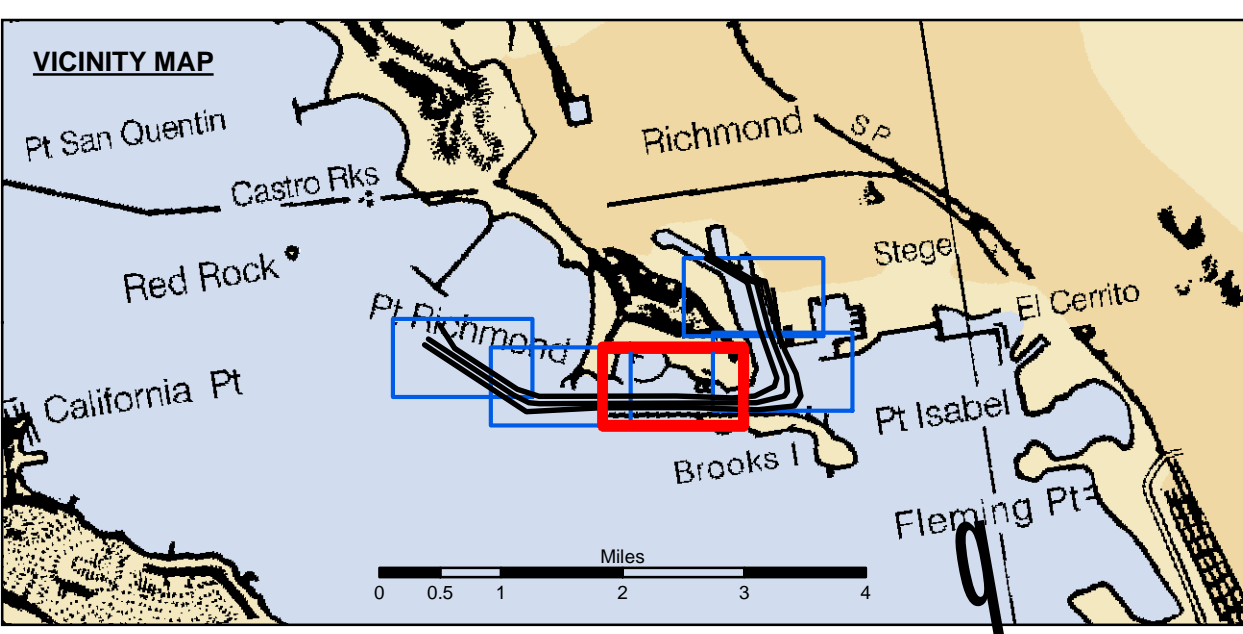
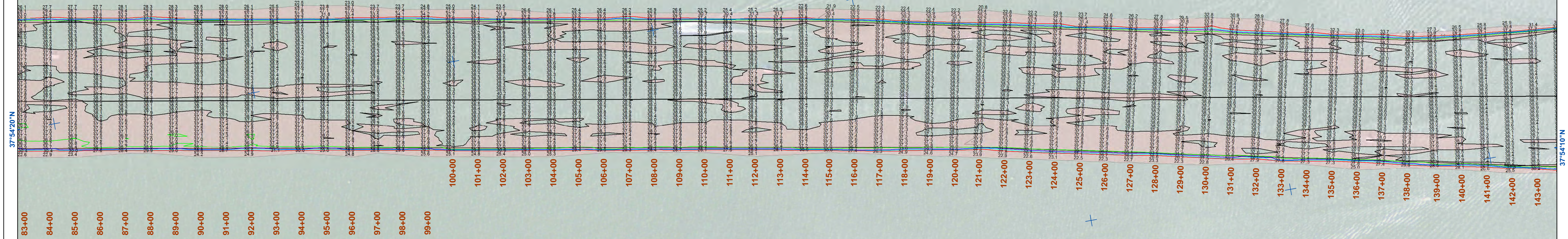


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|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | -38 |
| Placement Area | Navigation Buoy | -37 |
| Anchorage Area | Navigation Buoy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

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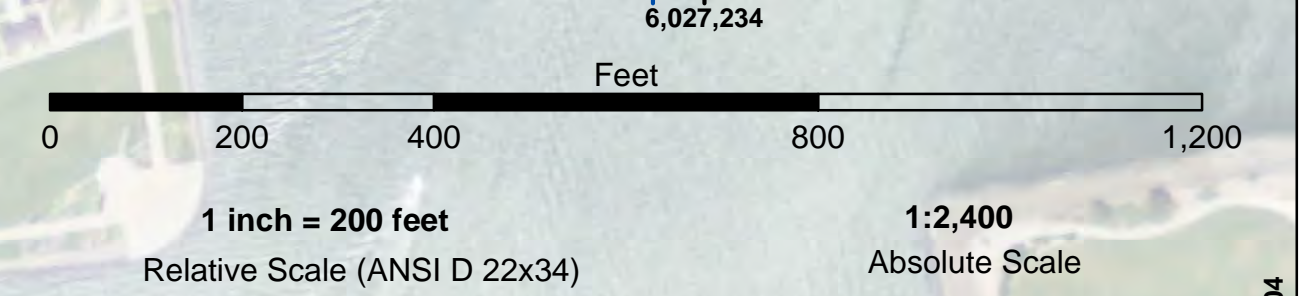
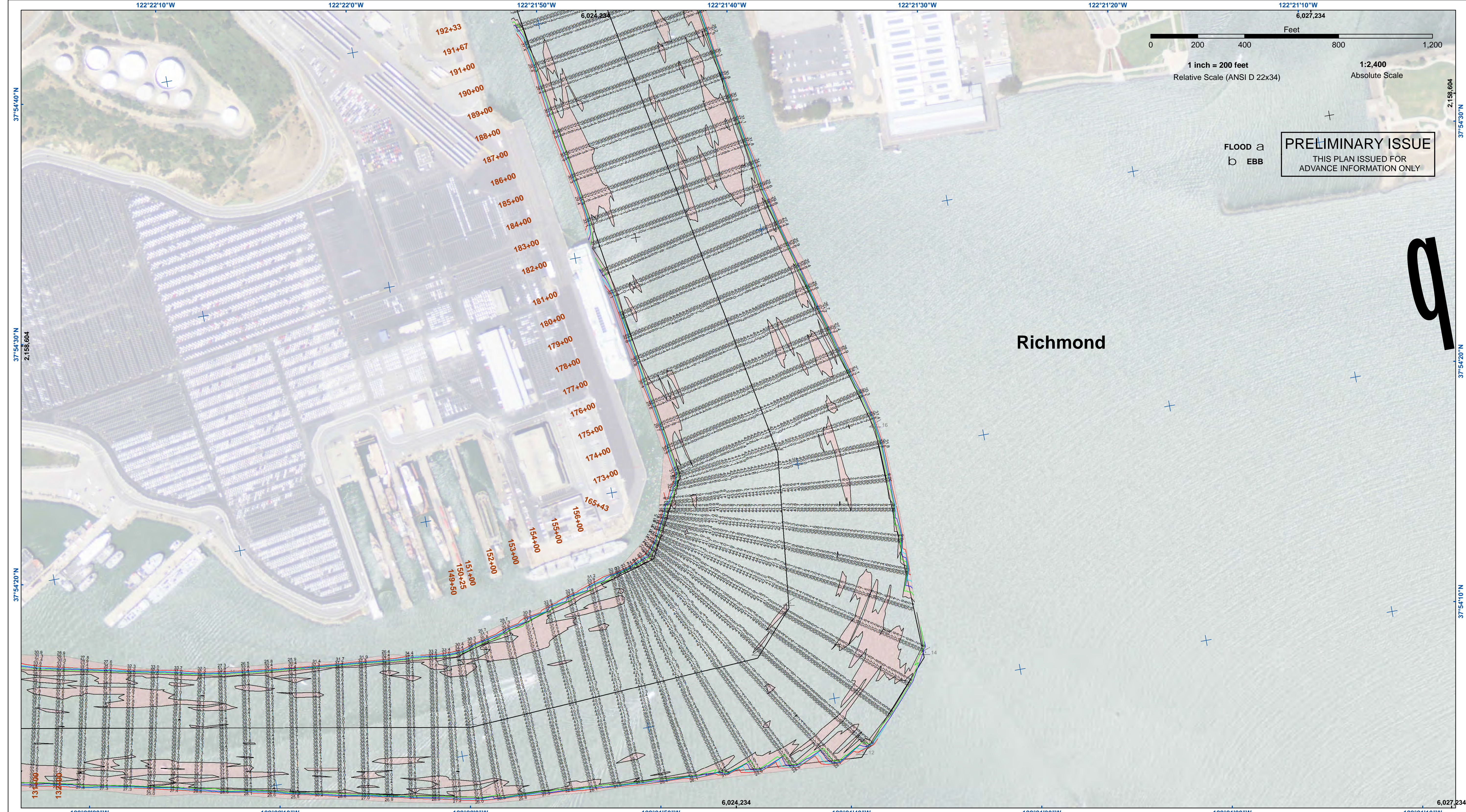
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Chart Date:	Jul 28, 2016
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Surveyed By:	JOHN C. MORROW
Plotted By:	PDT
Submitt:	Hydro Survey Team Leader
Recommend:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

CALIFORNIA
RICHMOND INNER HARBOR
CONDITION SURVEY
26-27 JULY 2016

Sheet Number
3 of 5



FLOOD a
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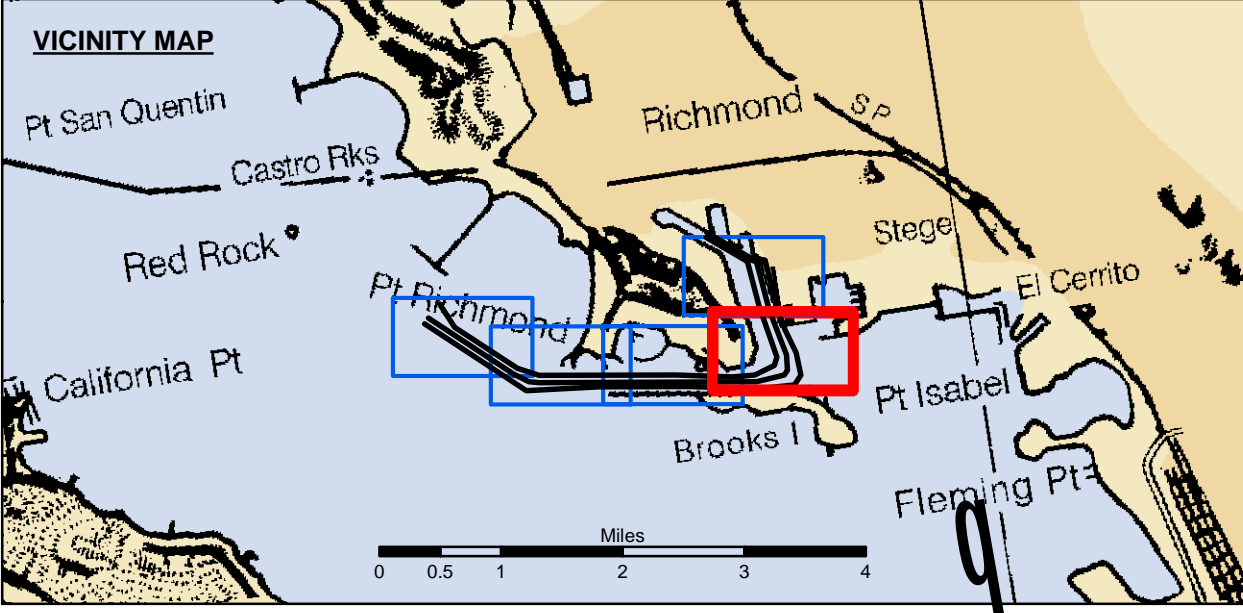
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LT COLONEL C. MORROW	PDT
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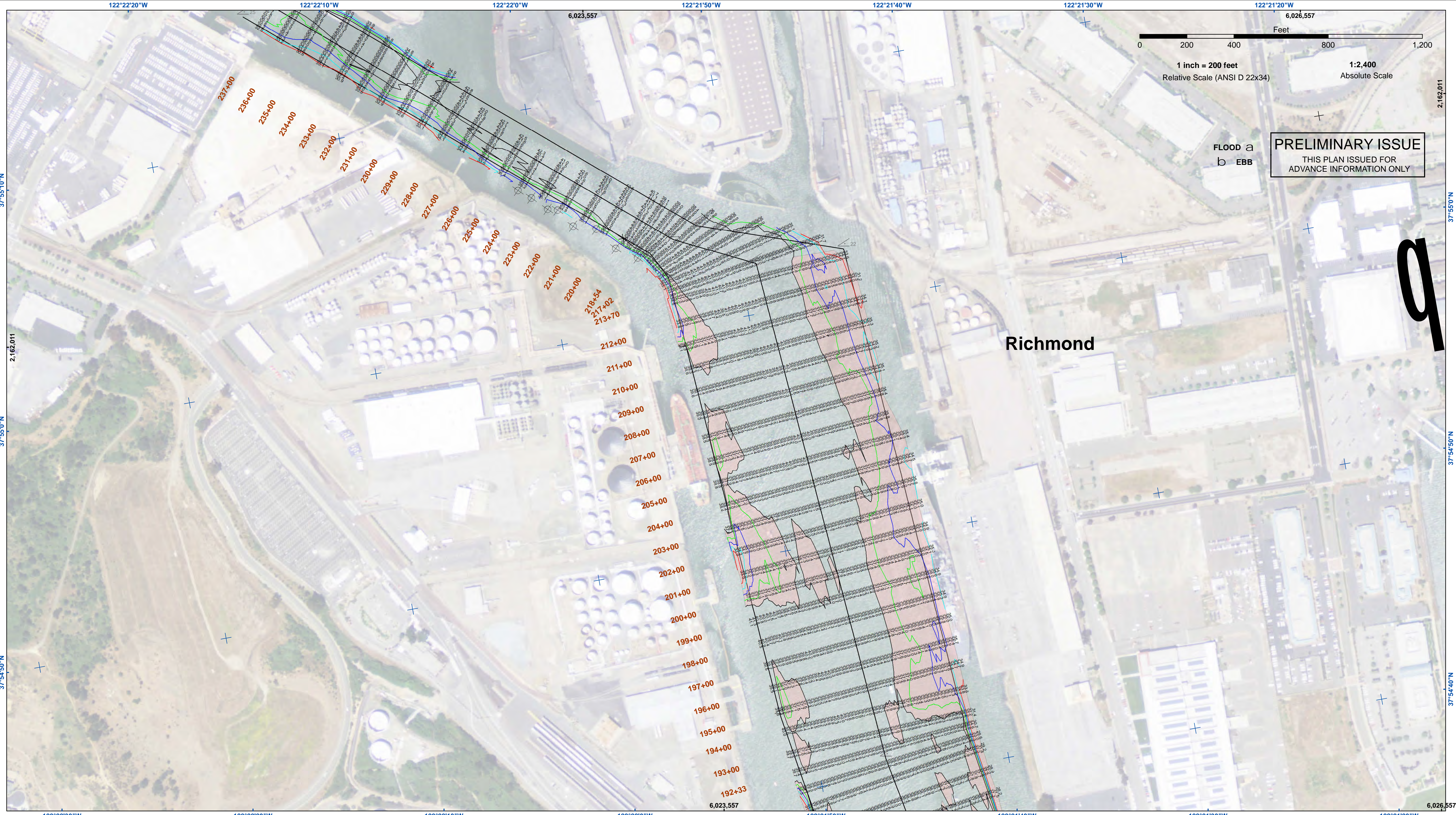
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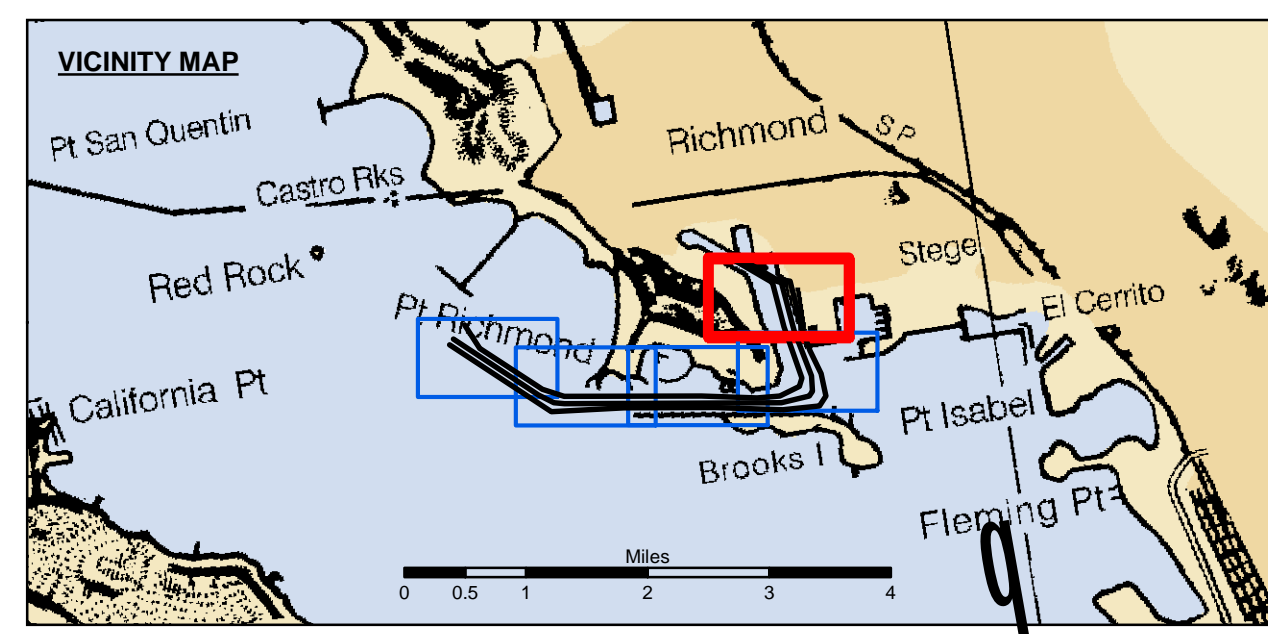


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RICHMOND INNER HARBOR
 CONDITION SURVEY
 26-27 JULY 2016



- Federal Navigation Channel
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