

FLOOD →
← 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

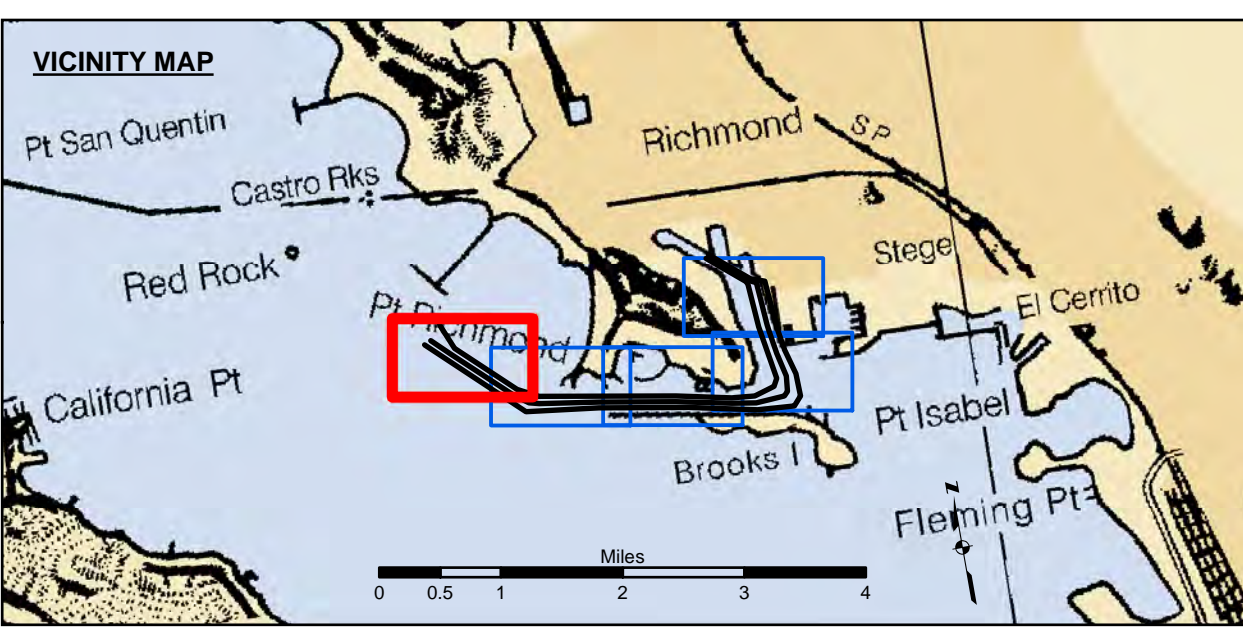
N.A.D. 1983 FEET COORDINATES

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	LT COLONEL C.E. DISTRICT ENGINEER	Chart Date	Nov 21, 2017
Surveyed By	TRAVIS J. RAYFIELD	Designed by	PDT
Plotted By	PDT	Drawn by	PDT
Recommended	Chief, Hydro Survey Section	Checked By	PDT
Approved	Chief, Construction Branch		

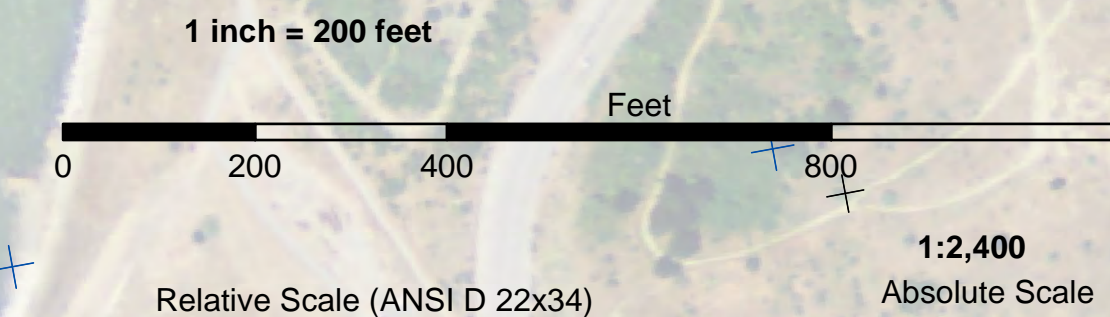
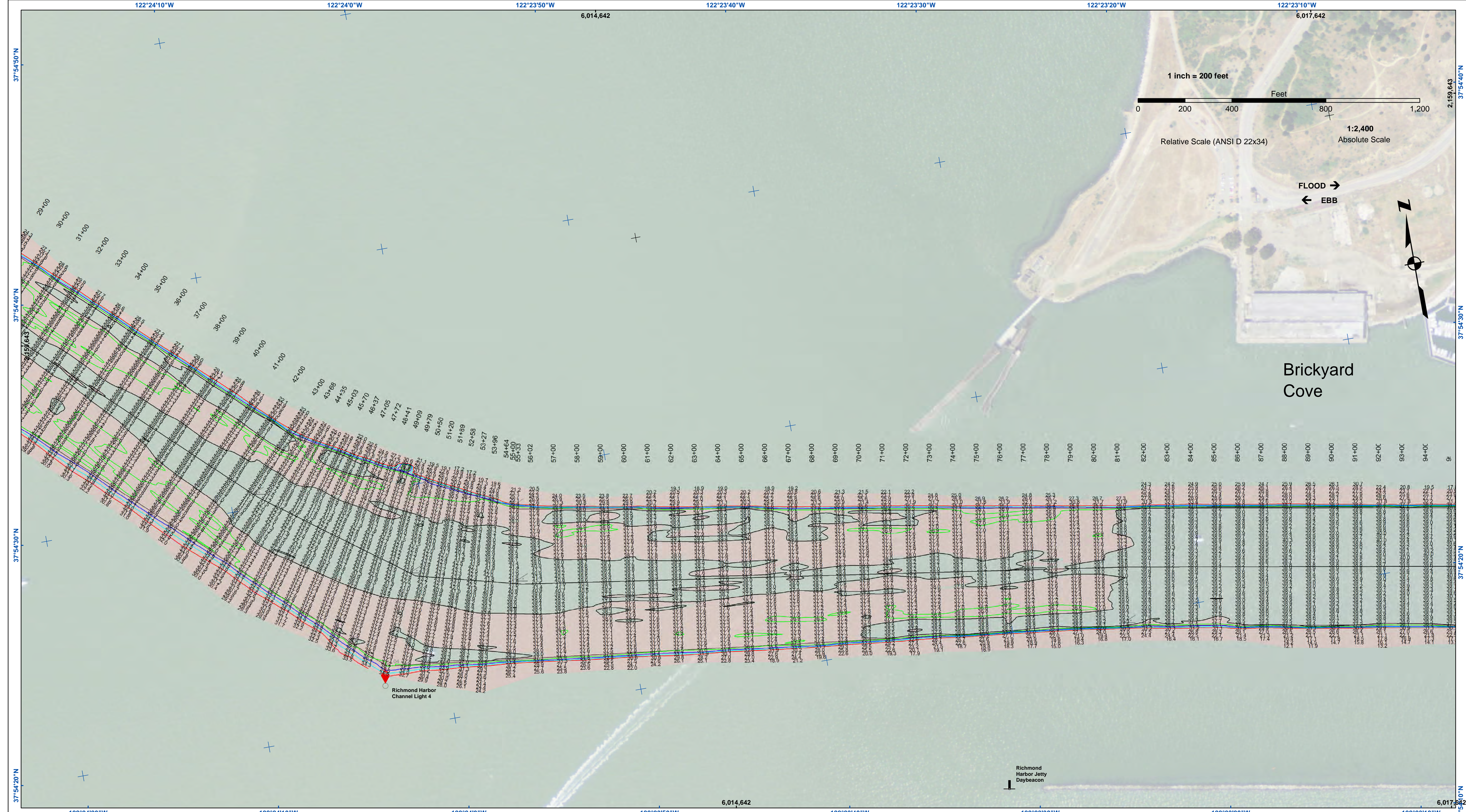
ALAMEDA COUNTY
RICHMOND INNER HARBOR
POST-DREDGE SURVEY
3-13, 31 OCTOBER
AND 7-13, 19-20 NOVEMBER 2017



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		

NOTES:
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*SHOALEST SOUNDING PER QUARTER PER REACH

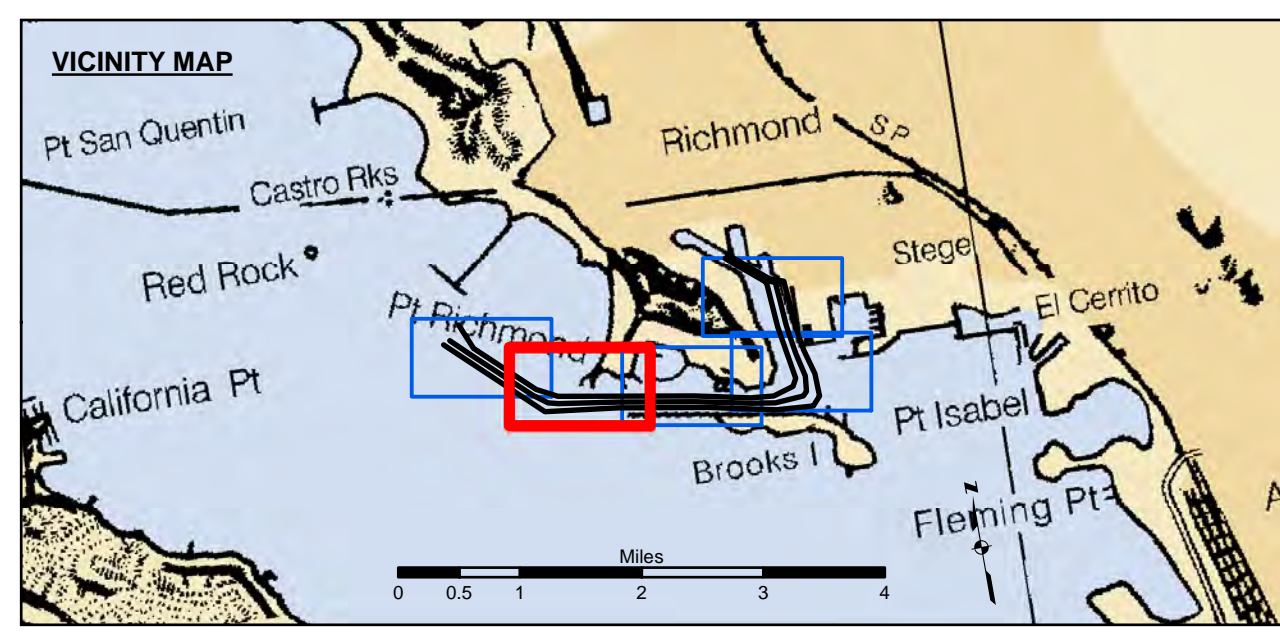
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INNER HARBOR CHANNEL: 37.5 FEET.
SANTE FE CHANNEL: 30 FEET.
(INNER HARBOR CHANNEL) BENCHMARK A-556 ELEV 15.81 FT. MLLW.
BENCHMARK #2 (1032) USCGS DISK OLD FORD PLANT 16.025 FT. MLLW.
B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW.
TIDE GAGE LOCATION: MON B-1.
HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.
VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY



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

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Prepared Under the Direction of	Travis J. Rayfield	Chart Date	Nov 21, 2017
Surveyed By	PDT	Designed by	PDT
Plotted By	PDT	Checked By	PDT
Drawn by	PDT	Approved	PDT



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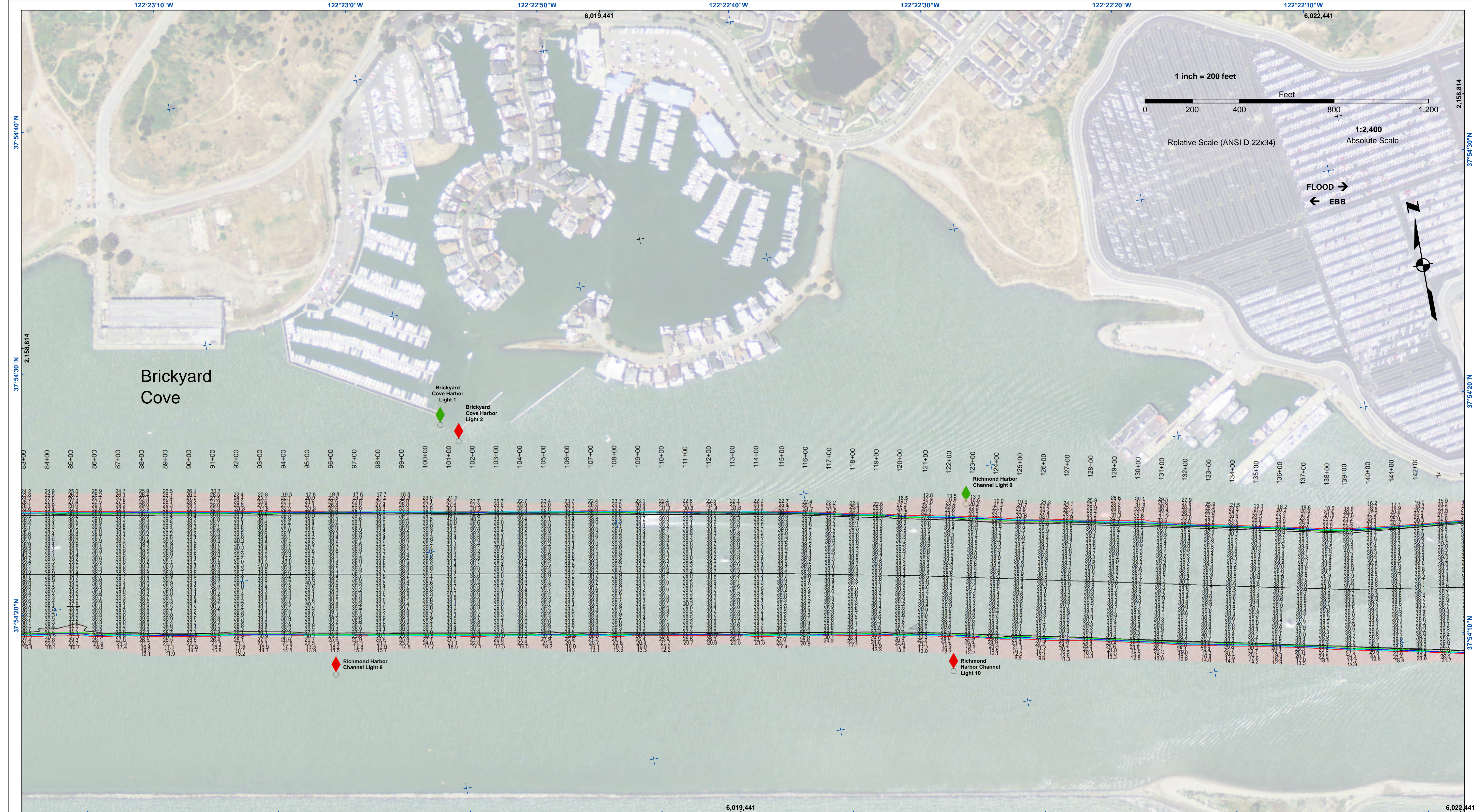
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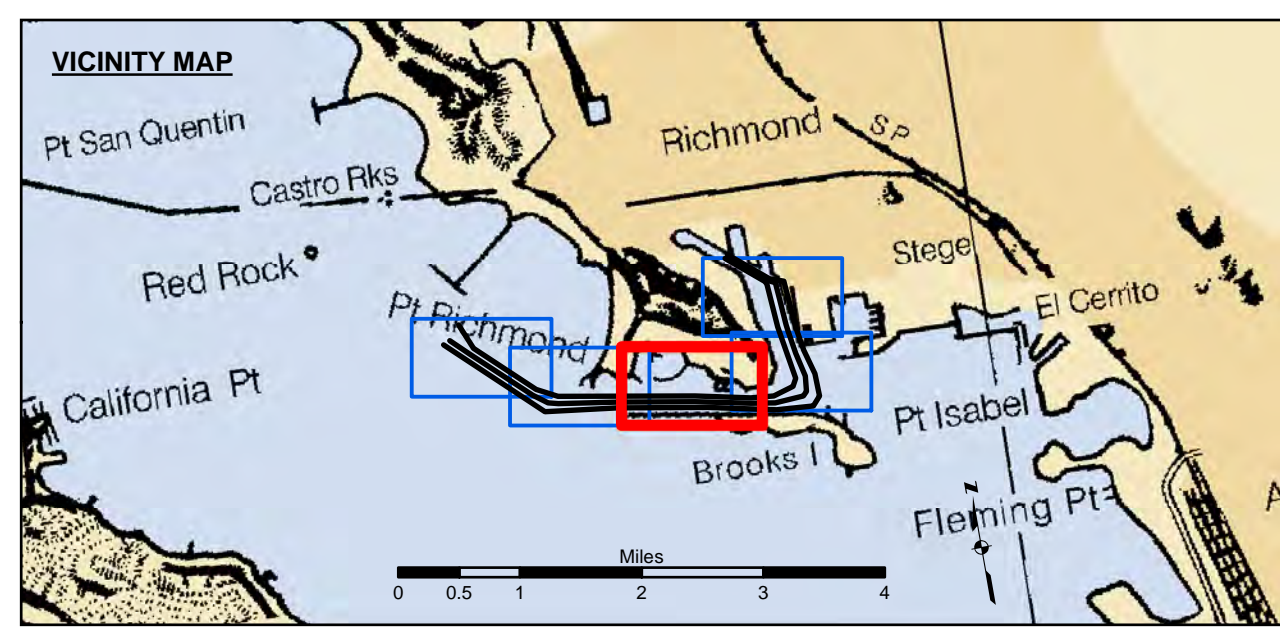
ALAMEDA COUNTY
RICHMOND INNER HARBOR
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Designed by:	PDT
Surveyed By:	PDT
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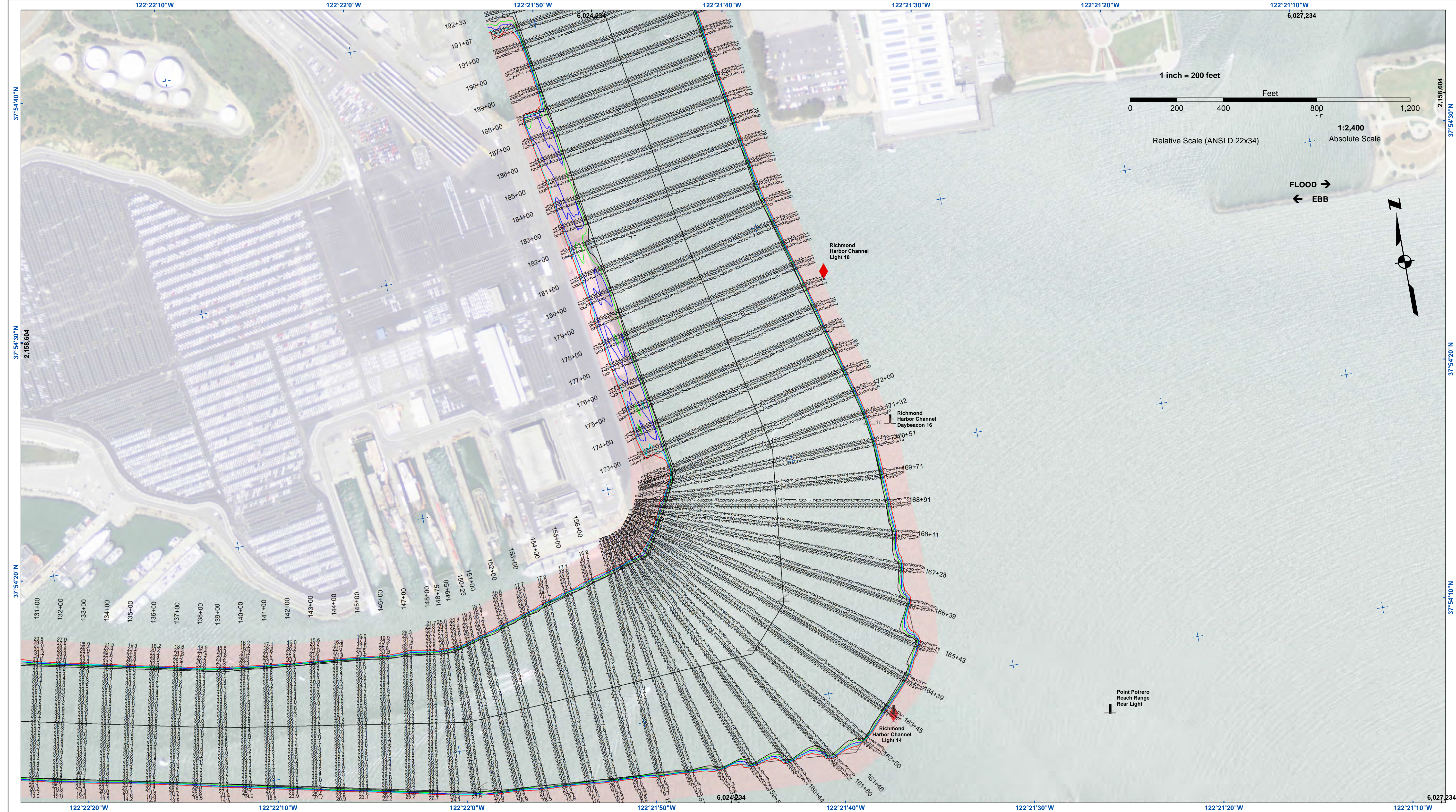
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ALAMEDA COUNTY
 RICHMOND INNER HARBOR
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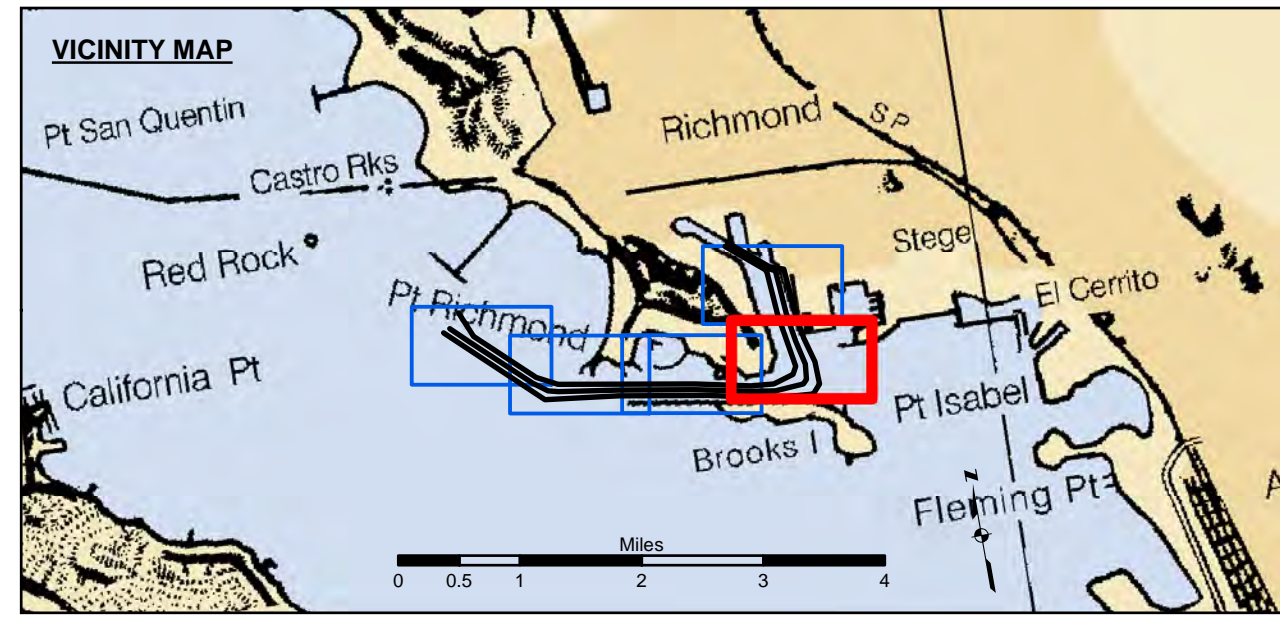
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Surveyed By:	LT. COLONEL J. RAYFIELD
Plotted By:	PDT
Checked By:	PDT
Drawn By:	PDT

ALAMEDA COUNTY
RICHMOND INNER HARBOR
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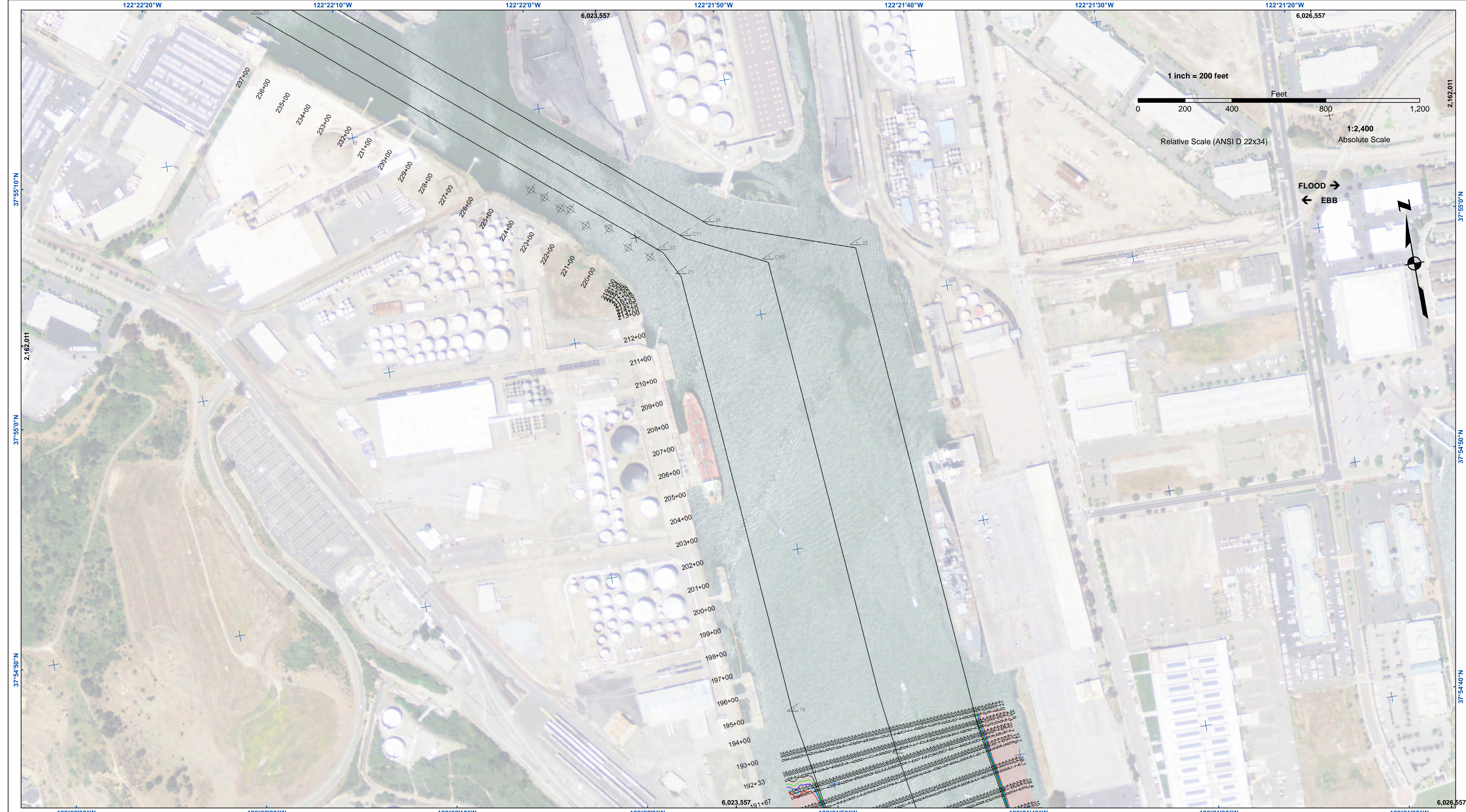
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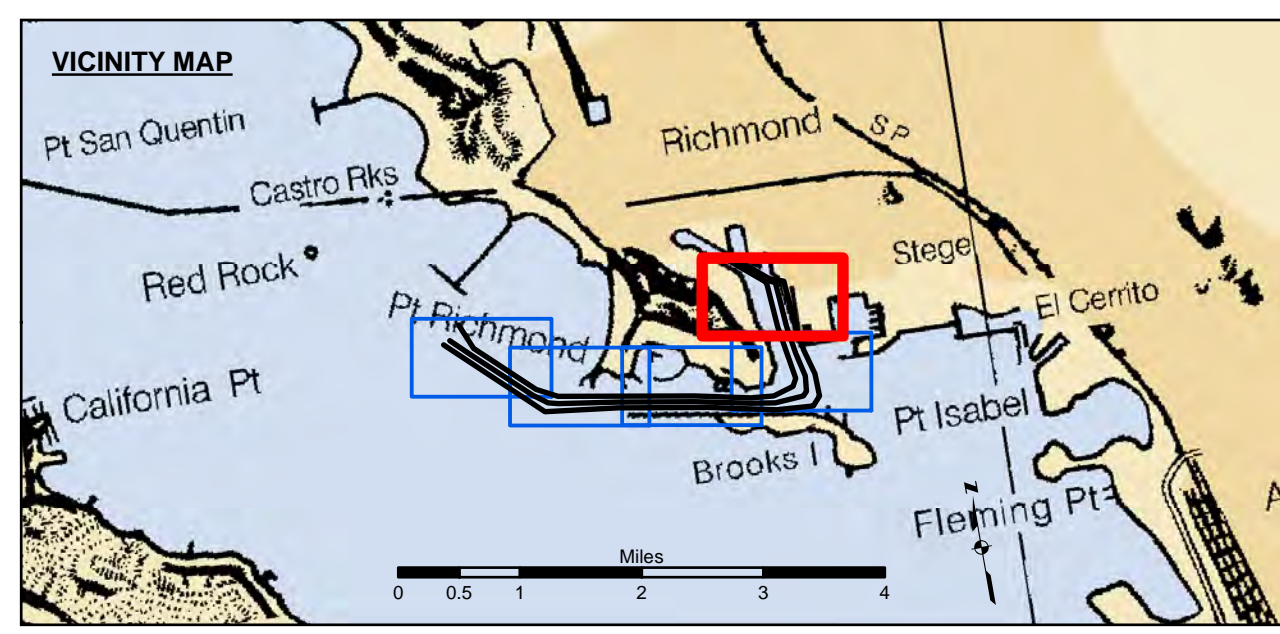
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1 inch = 200 feet
 0 200 400 800 1,200 Feet
 Relative Scale (ANSI D 22x34) 1:2,400
 Absolute Scale

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