

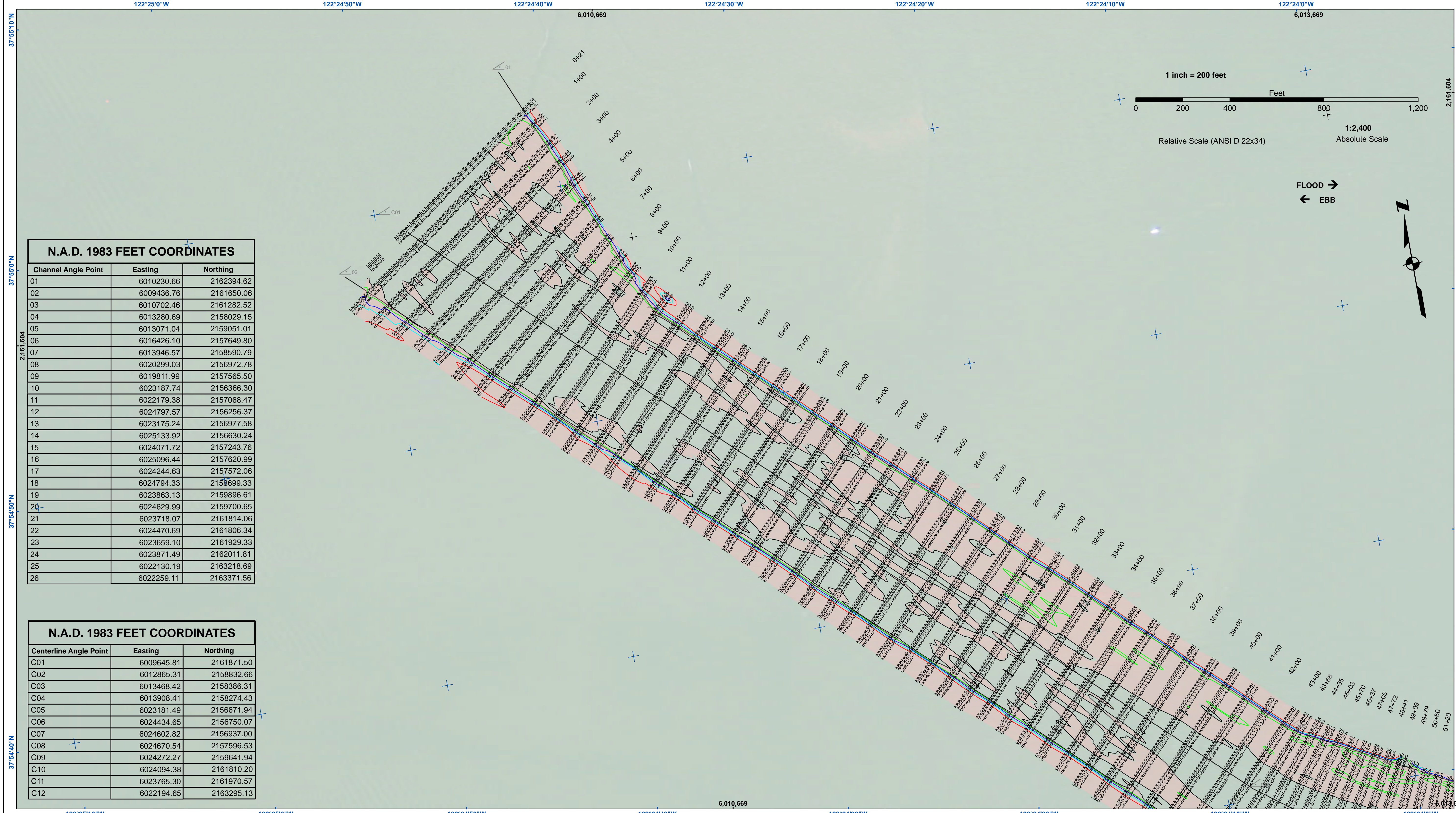


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Prepared Under the Direction of JOHN D. CUNNINGHAM LT COLONEL, C.E., DISTRICT ENGINEER	Surveyed By: _____	Chart Date: Mar 25, 2020
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by: _____
Recommended: Chief, Hydro Survey Section	Checked By: PDT	Drawn by: _____
Approved: Chief, Construction Branch		PDT

CALIFORNIA
RICHMOND INNER HARBOR
 CONDITION SURVEY
 11-12 MARCH 2020

ALAMEDA COUNTY
Sheet Reference Number
 1 of 6

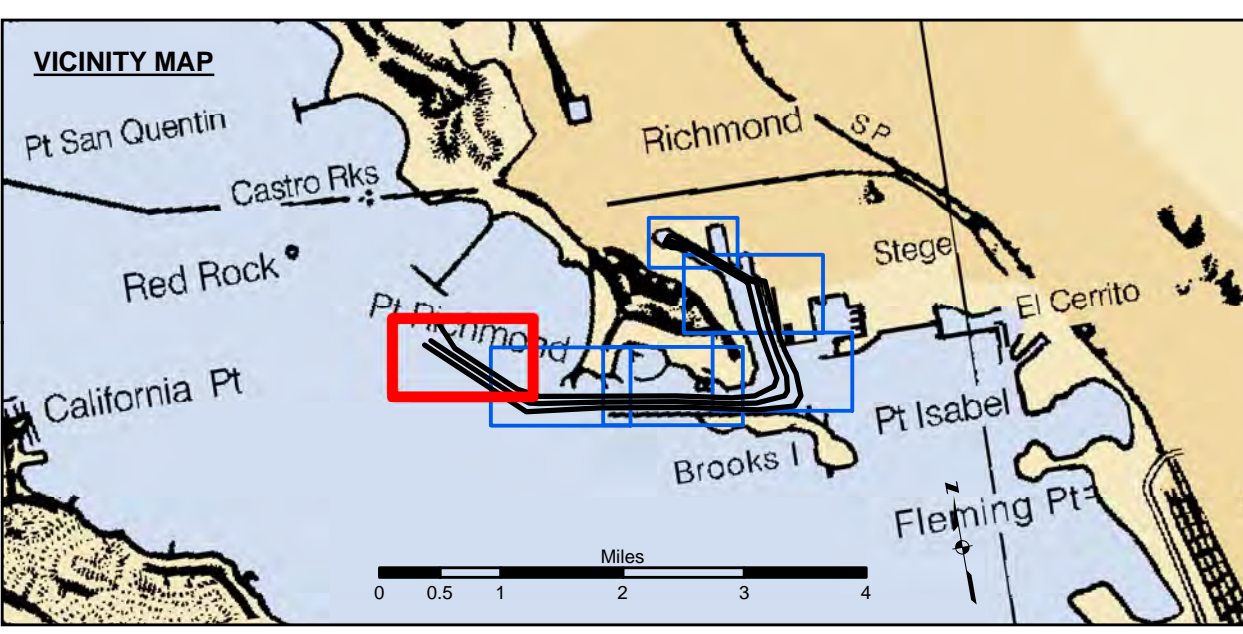


N.A.D. 1983 FEET COORDINATES

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



Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-38
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Anchorage Area	Navigation Buoy	-36
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Submerged Wreck		-34
Angle Point		

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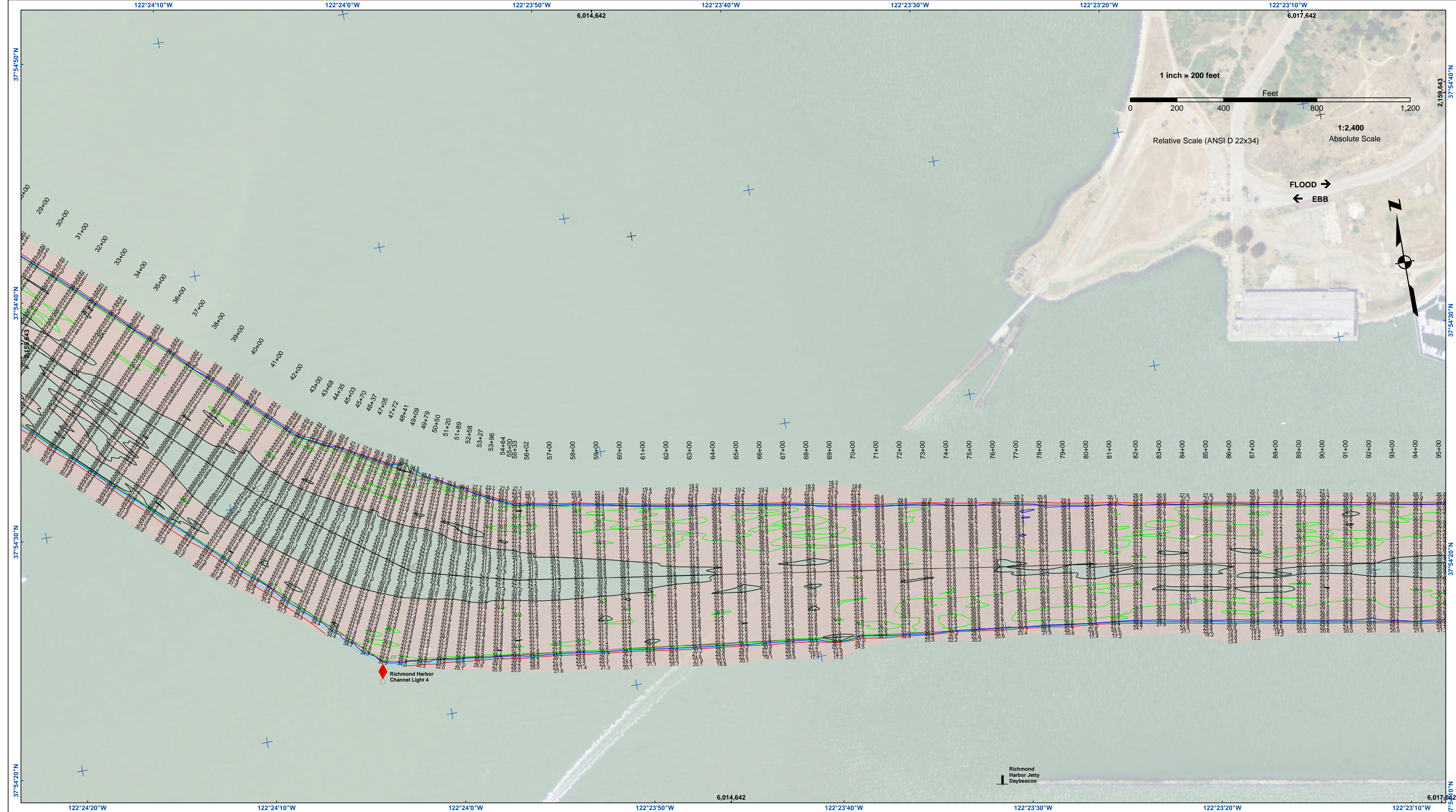
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THE PROJECT DEPTHS ARE AS FOLLOWS:
 INNER HARBOR CHANNEL - 37.5 FEET.
 SANTE FE CHANNEL - 30 FEET.

(INNER HARBOR CHANNEL) BENCHMARK A-558 ELEV 15.81 FT. MLLW.
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 B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW.

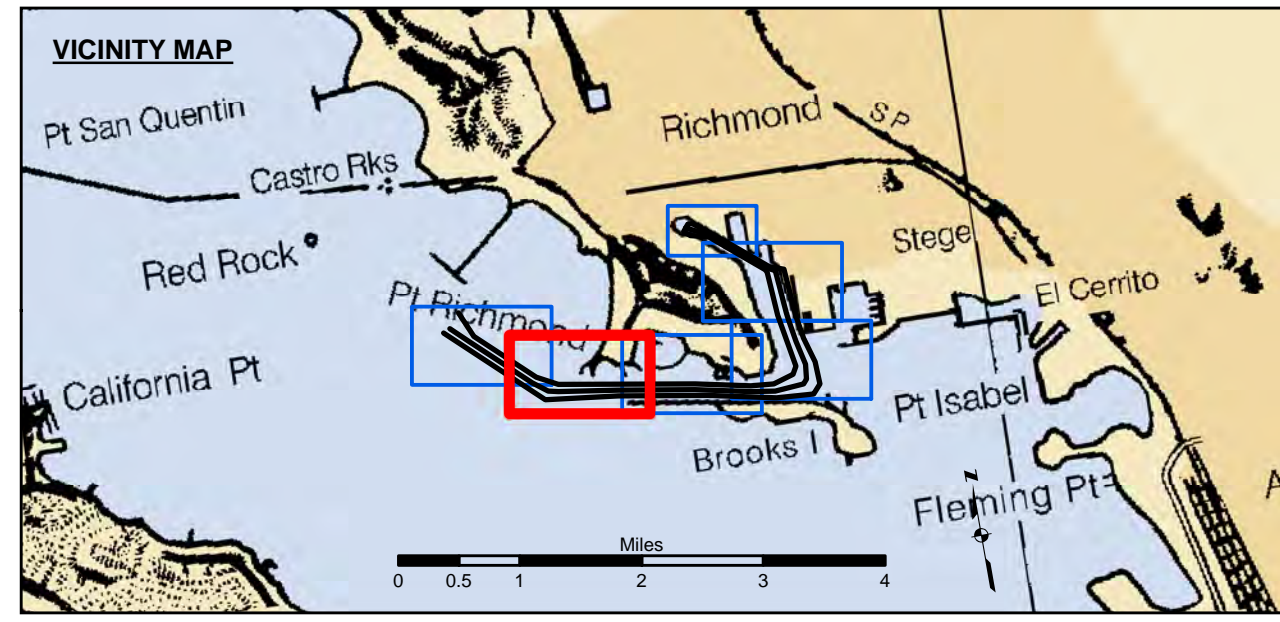
TIDE GAGE LOCATION: MON B-1.
 HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.
 VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY



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Subject: 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		



Federal Navigation Channel	Beacon, General	Contours
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NOTES:
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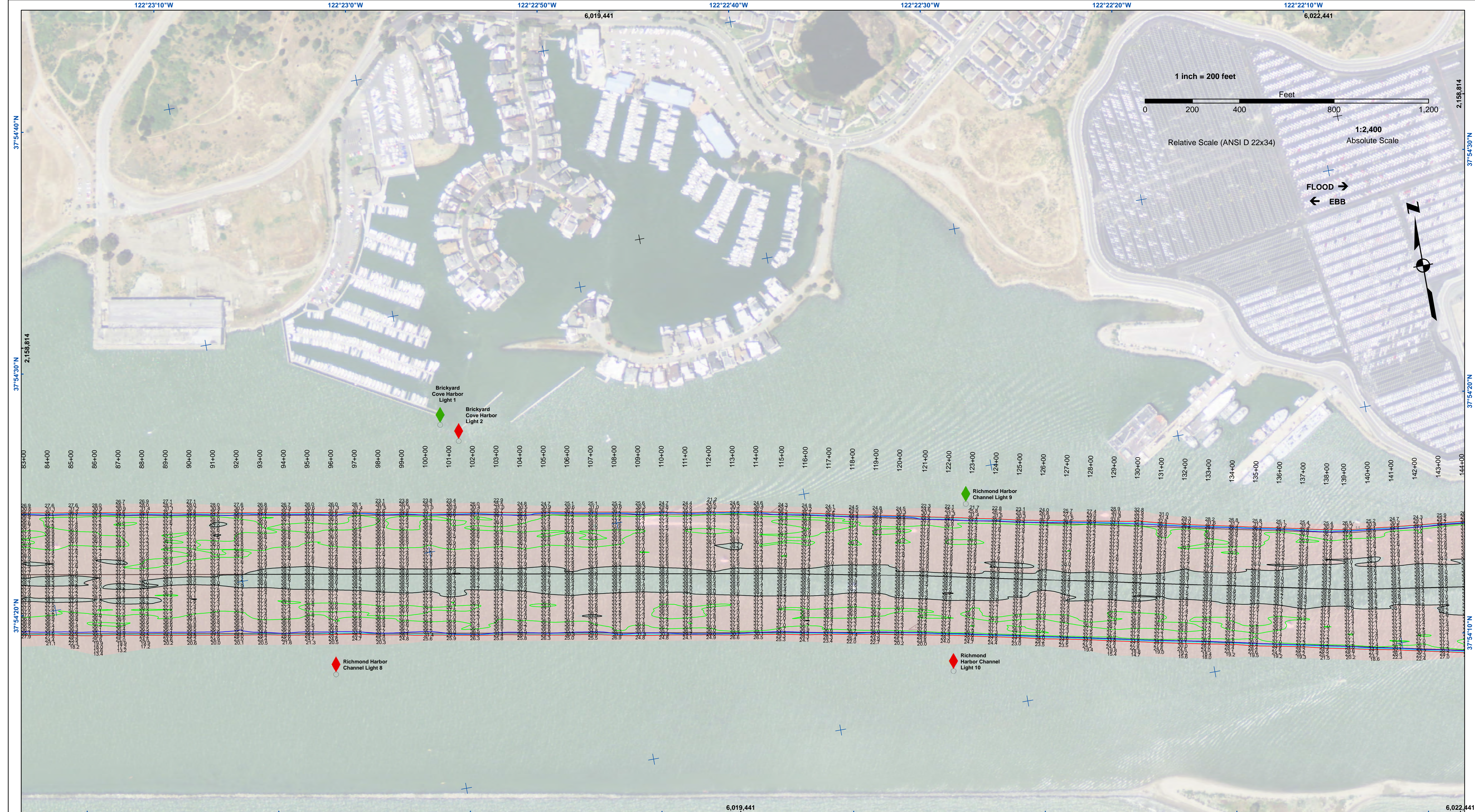
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 SANTE FE CHANNEL -30 FEET.

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 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

ALAMEDA COUNTY
 CALIFORNIA
RICHMOND INNER HARBOR
 CONDITION SURVEY
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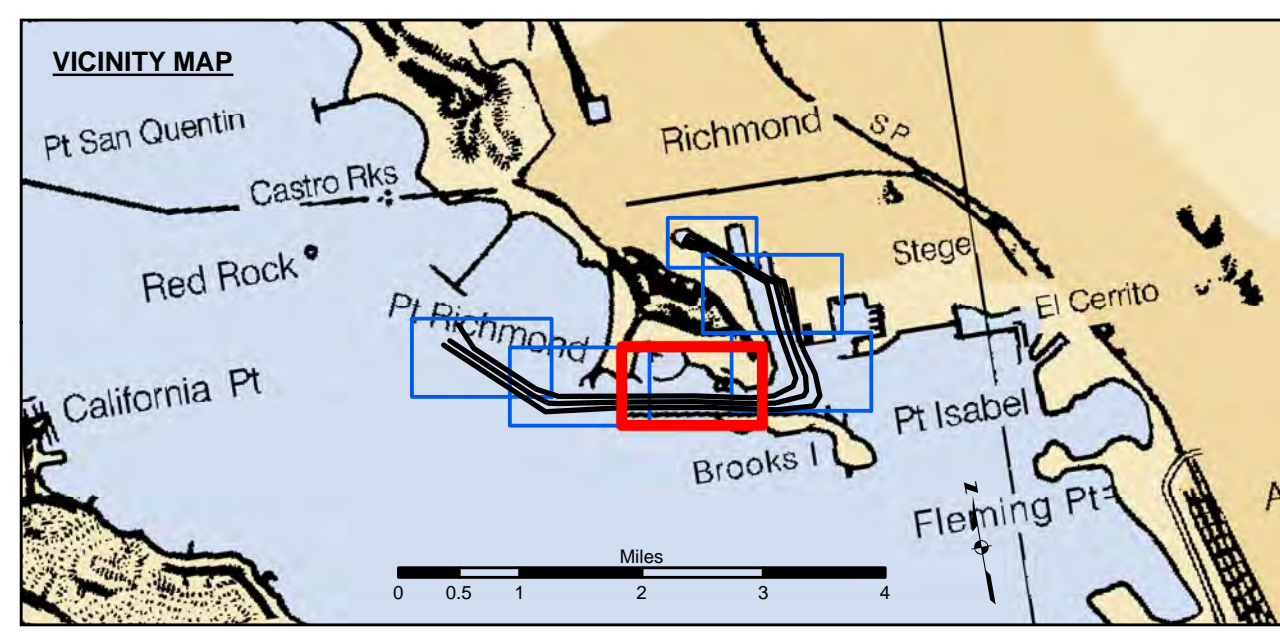
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Chart Date:	Mar 25, 2020
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	PDT

CALIFORNIA
 ALAMEDA COUNTY
RICHMOND INNER HARBOR
 CONDITION SURVEY
 11-12 MARCH 2020

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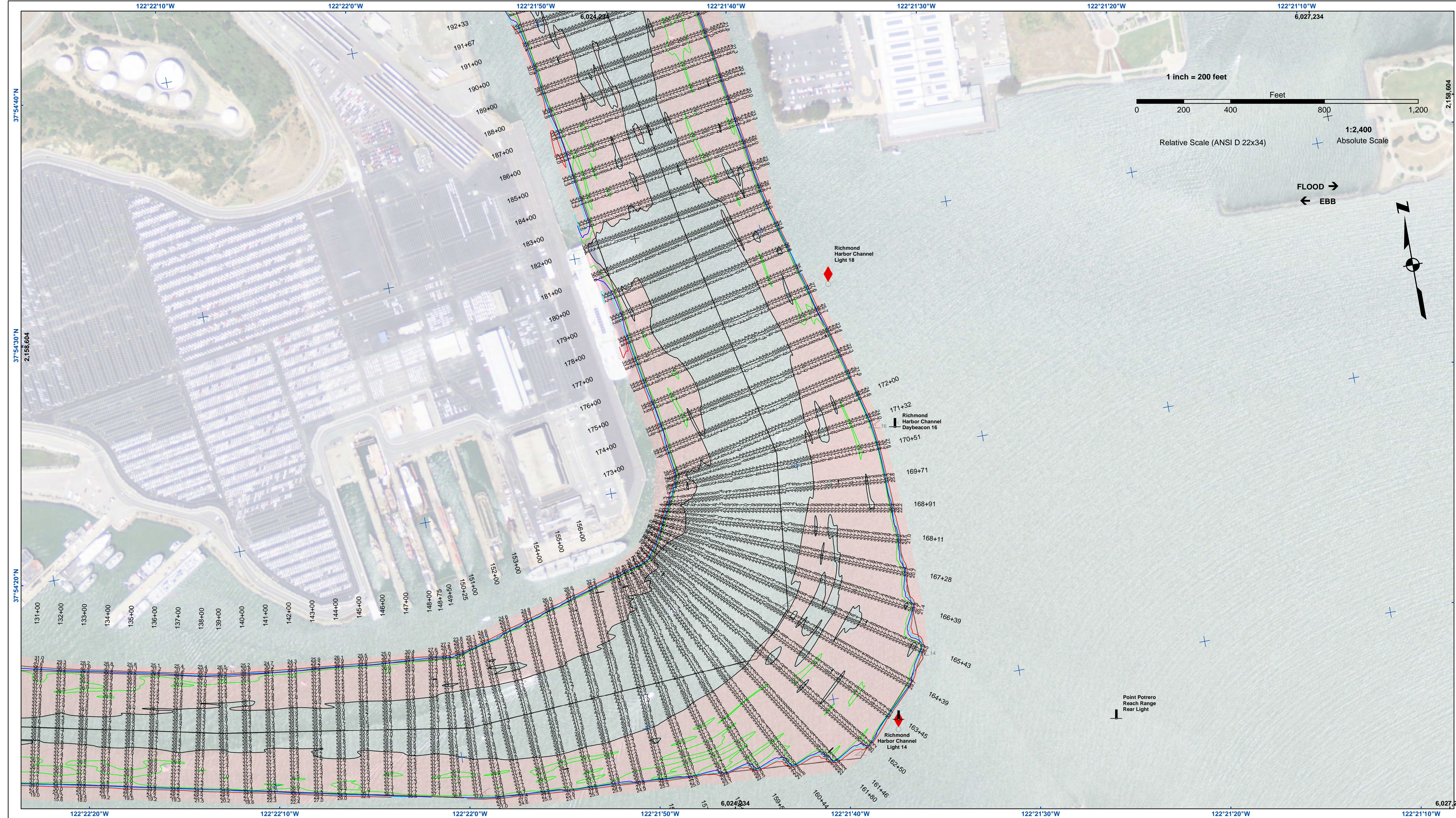


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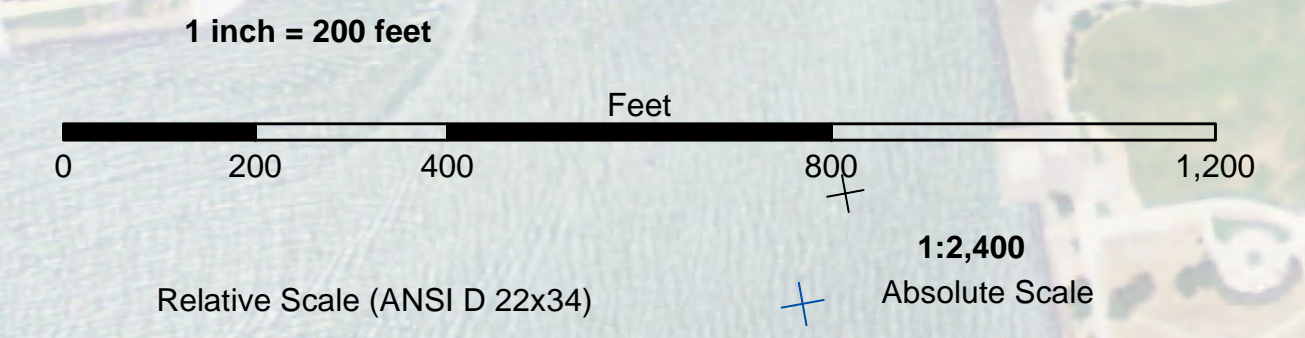
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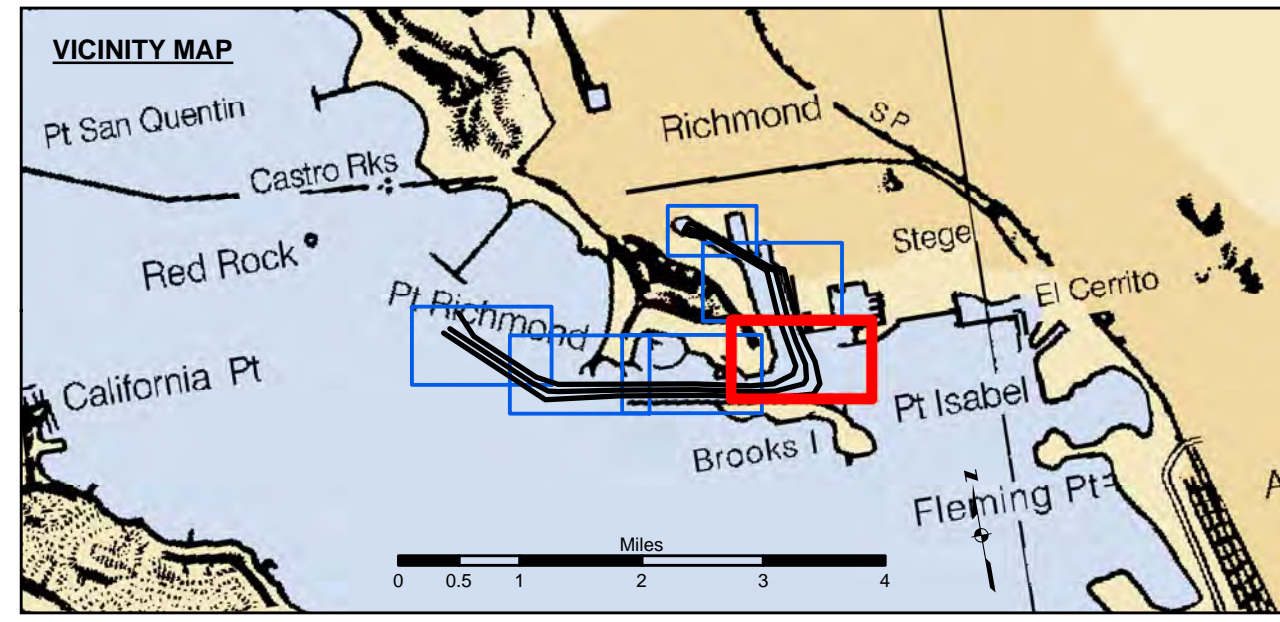


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Surveyed By:	LT COLONEL C.E. DISTRICT ENGINEER
Plotted By:	PDT
Checked By:	PDT
Drawn by:	PDT



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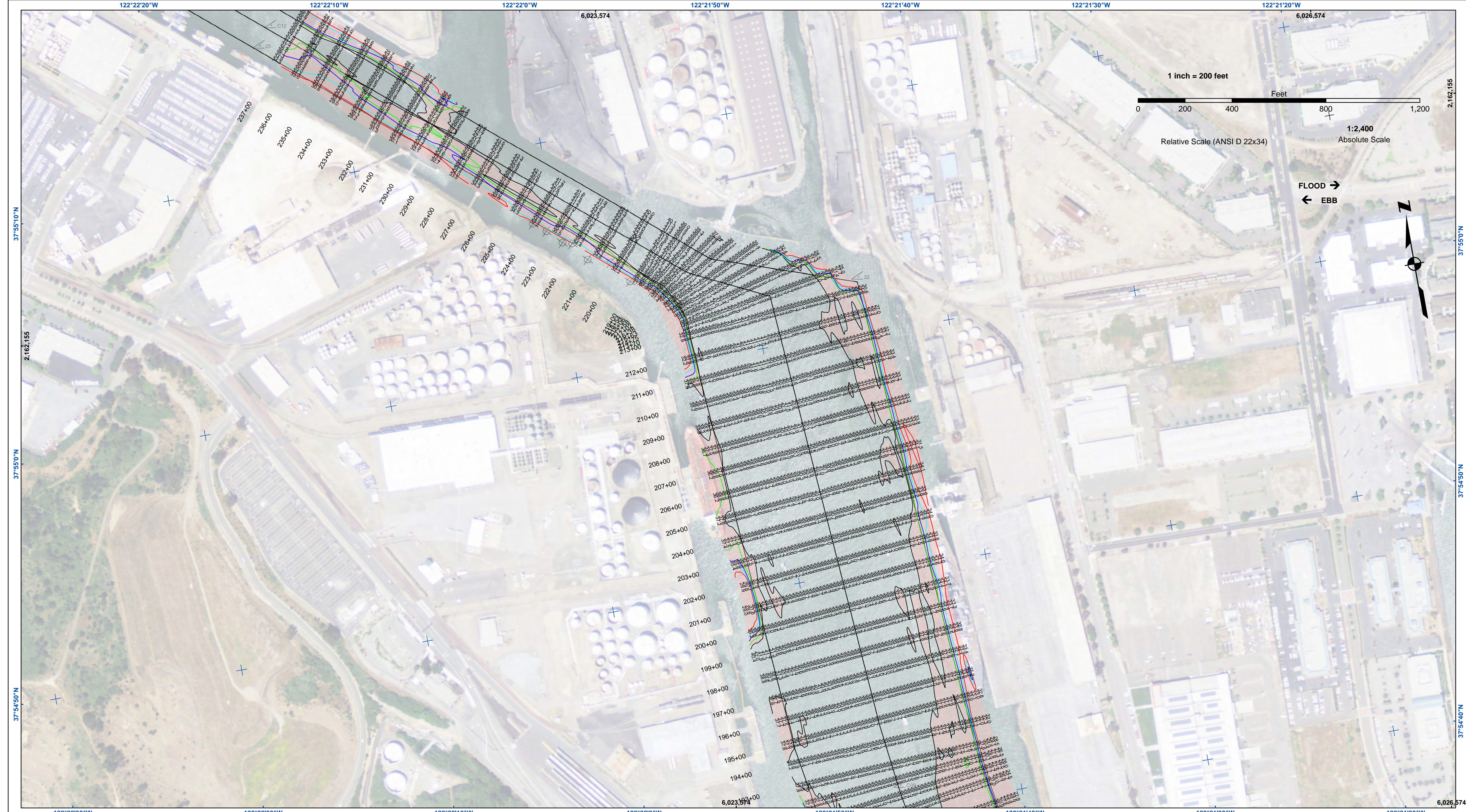
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CALIFORNIA
 ALAMEDA COUNTY
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1 inch = 200 feet
 0 200 400 800 1,200 Feet
 Relative Scale (ANSI D 22x34) 1:2,400
 Absolute Scale

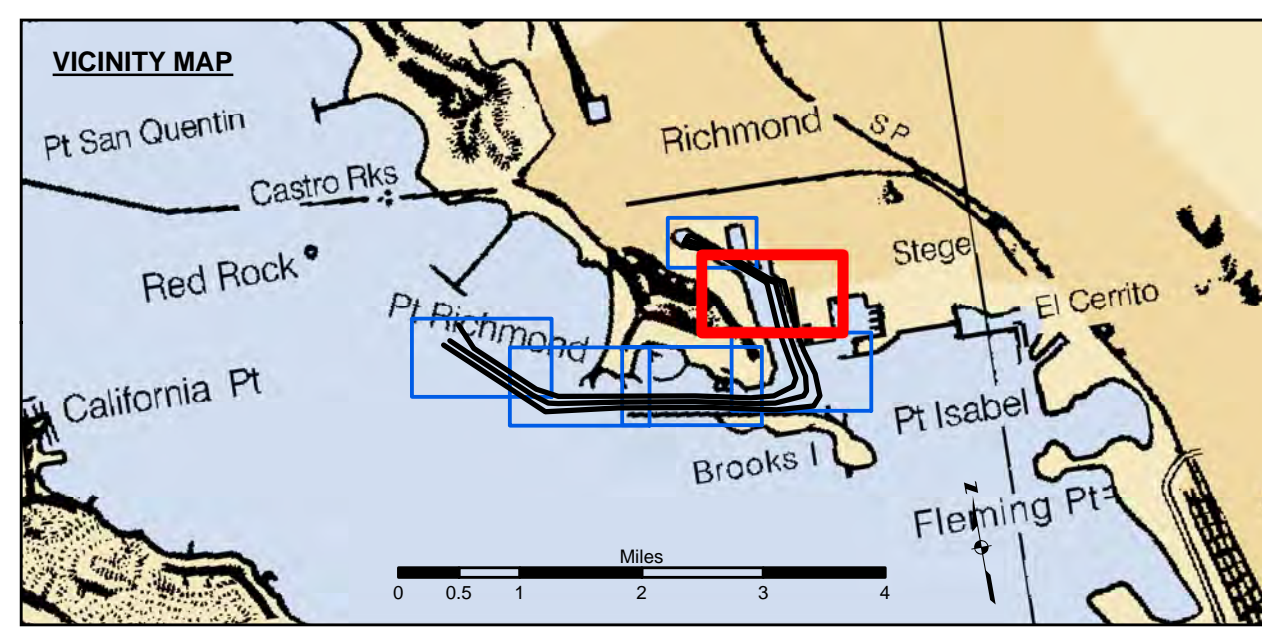
FLOOD →
← EBB

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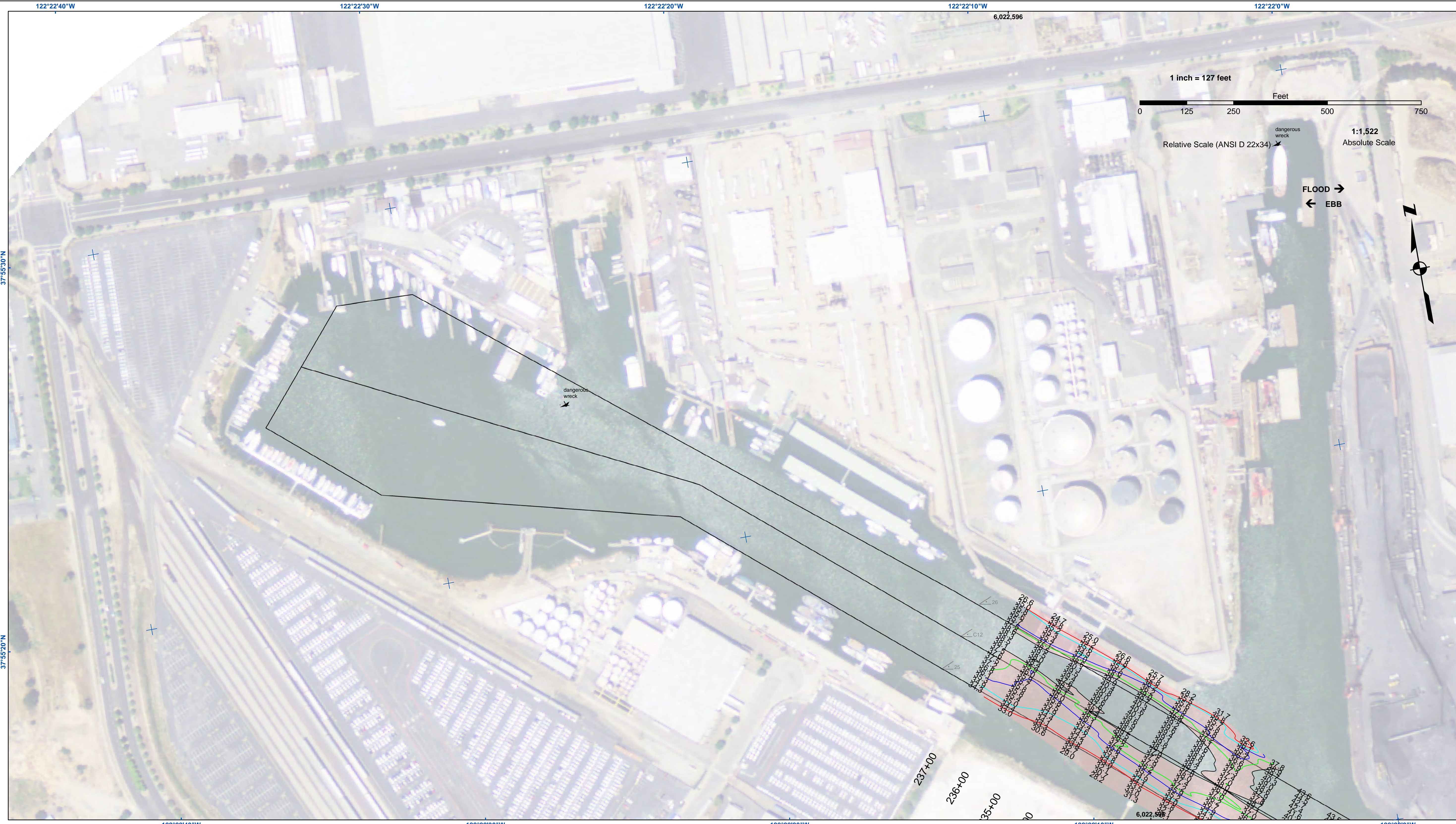
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1 inch = 127 feet
 Feet
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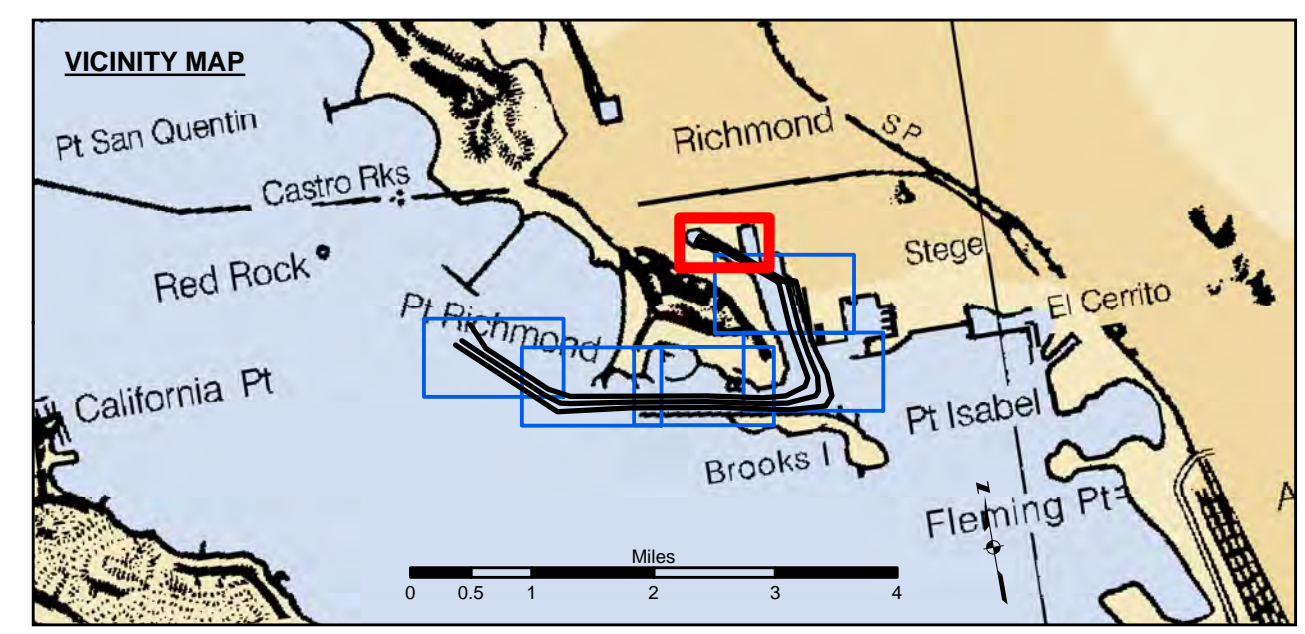
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 Absolute Scale

FLOOD →
 ← **EBB**

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