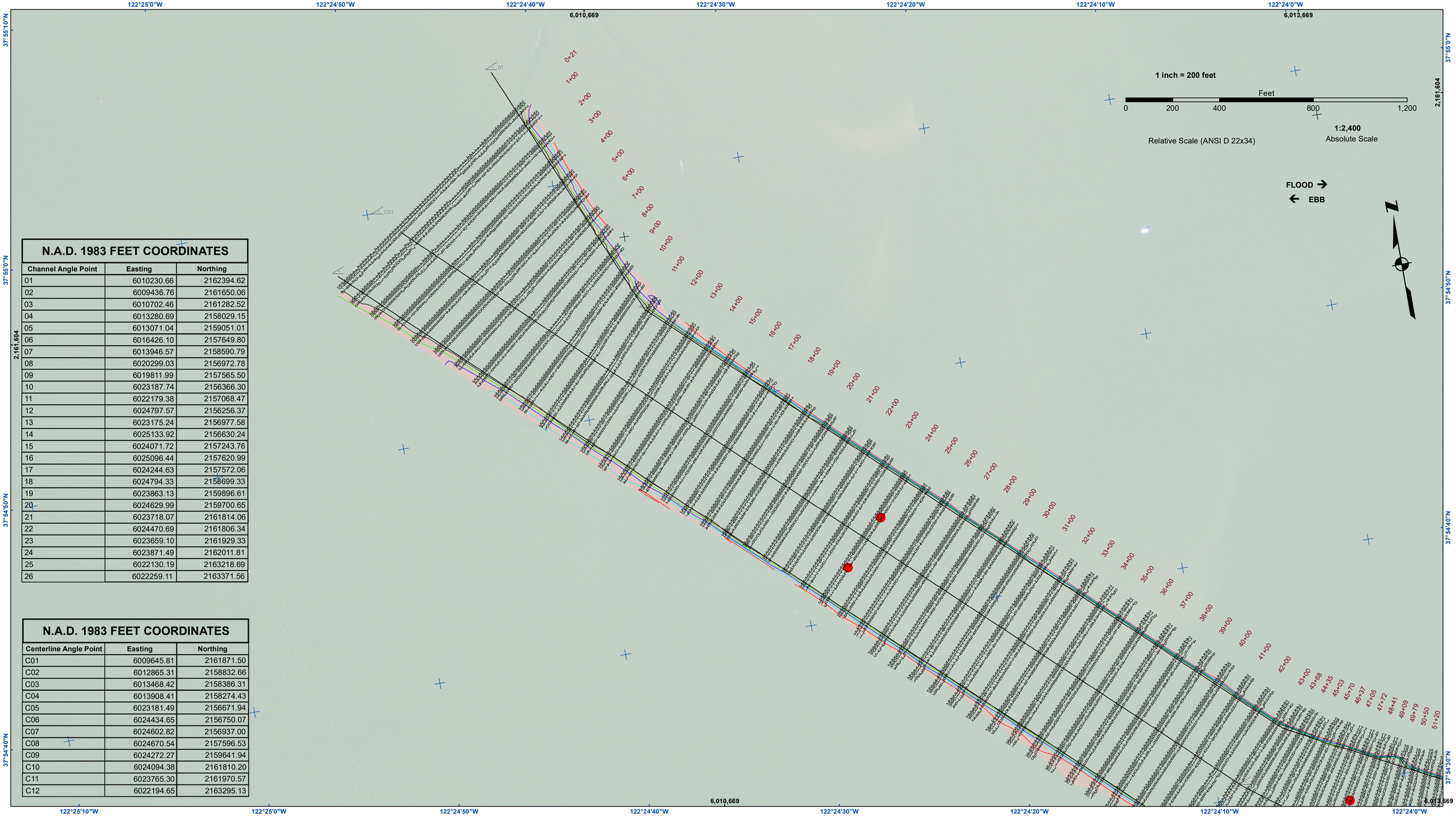


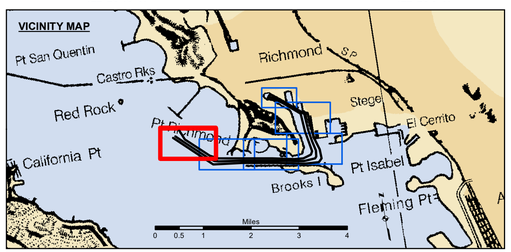
N.A.D. 1983 FEET COORDINATES

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

VICINITY MAP



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
-37
-36
-35
-34
-33

NOTES:
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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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Chart Date:	Mar 06, 2023
Surveyed By:	
Plotted By:	PDT
Designed By:	
Checked By:	PDT
Drawn by:	PDT

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E. - DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND INNER HARBOR
POST-DREDGE SURVEY
AUGUST 2022 TO JANUARY 2023

Sheet Reference Number
1 of 6

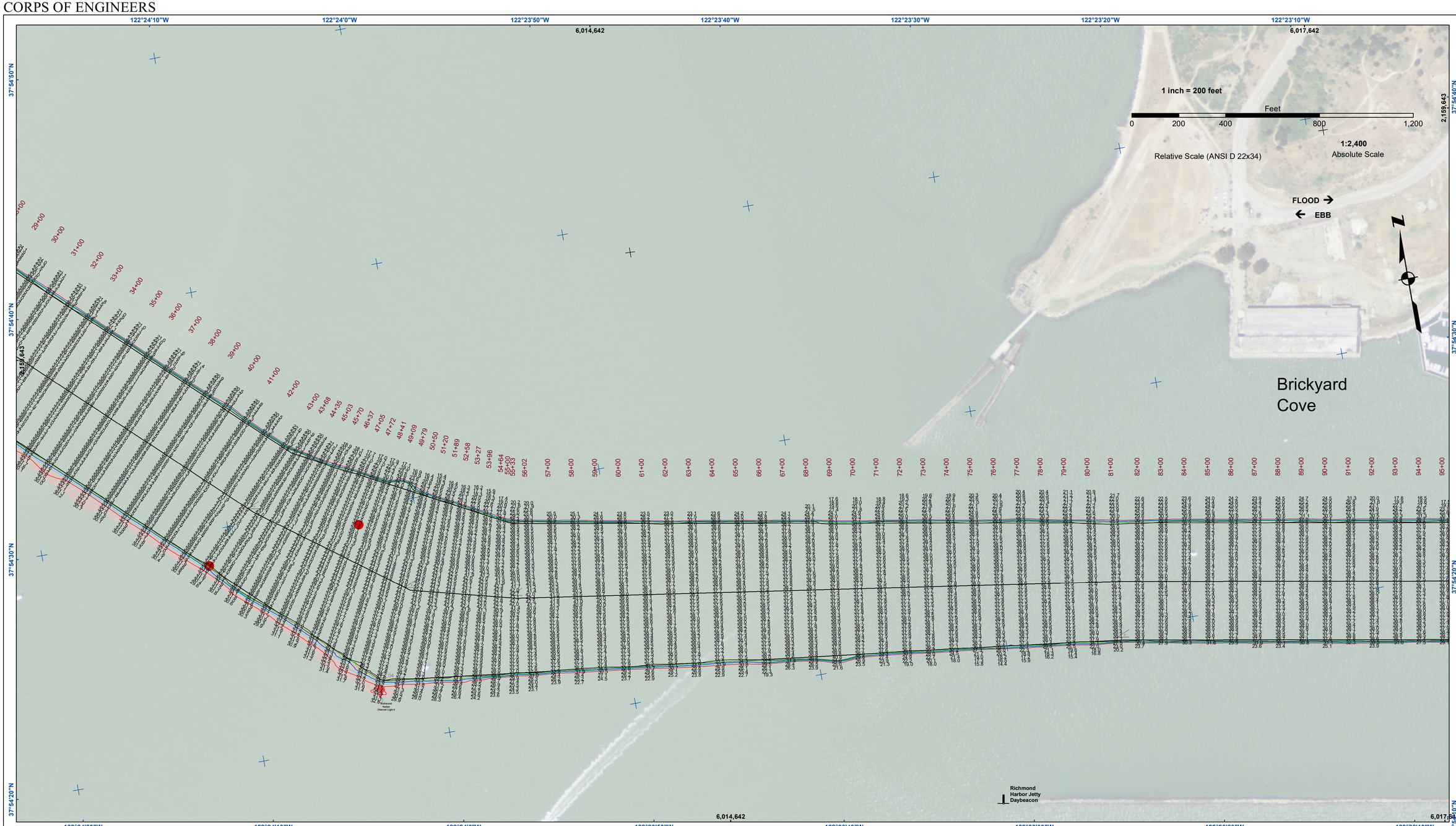

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Chart Date: Mar 06, 2023

Surveyed By:	Plotted By: PDT	Designed By:	Checked By: PDT	Drawn by: PDT

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KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND INNER HARBOR
POST-DREDGE SURVEY
AUGUST 2022 TO JANUARY 2023

Sheet Reference Number
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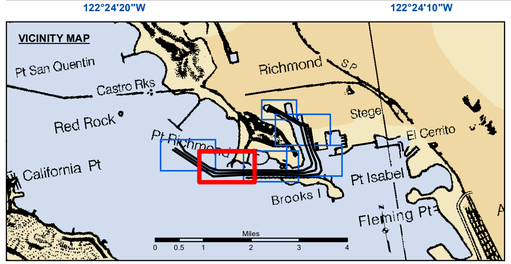

- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*

Contours
- -37
- -36
- -35
- -34
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NOTES:
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TIDE GAGE LOCATION: MON B-1.

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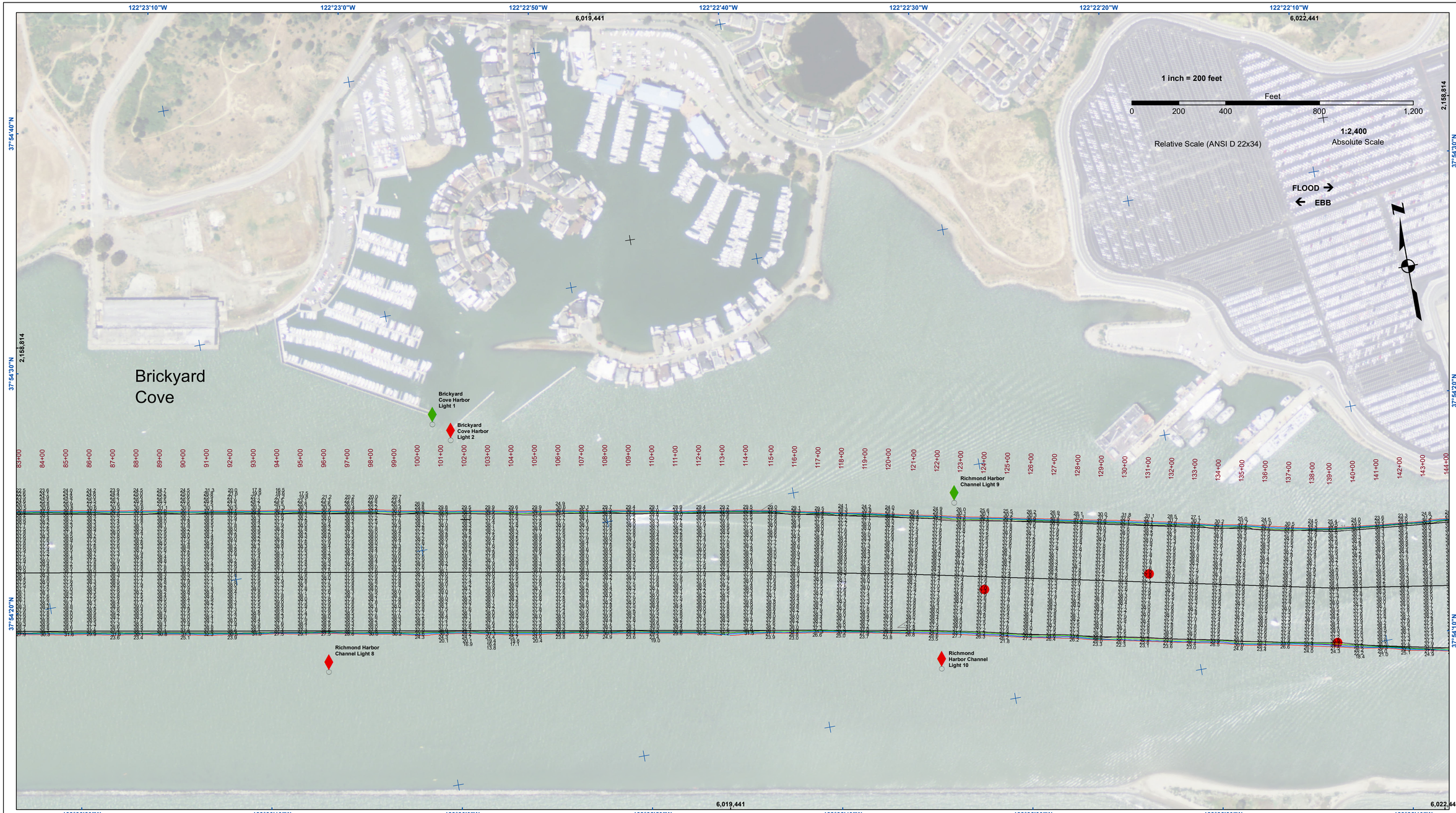

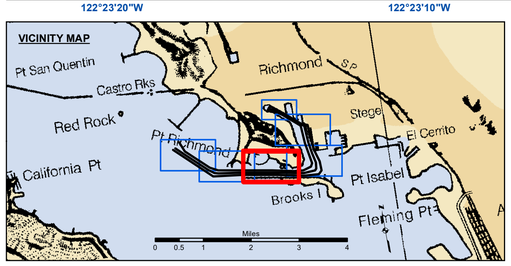

Federal Navigation Channel
Shoaling Area
Placement Area
Anchorage Area
Wreck Area
Submerged Wreck
Angle Point

Beacon, General
Obstruction Point
Navigation Buoy
Navigation Buoy
Shoalest Sounding*

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Chart Date: Mar 06, 2023		
Surveyed By:	Designed by:	
Plotted By: PDT	Drawn by: PDT	
Checked By: PDT		

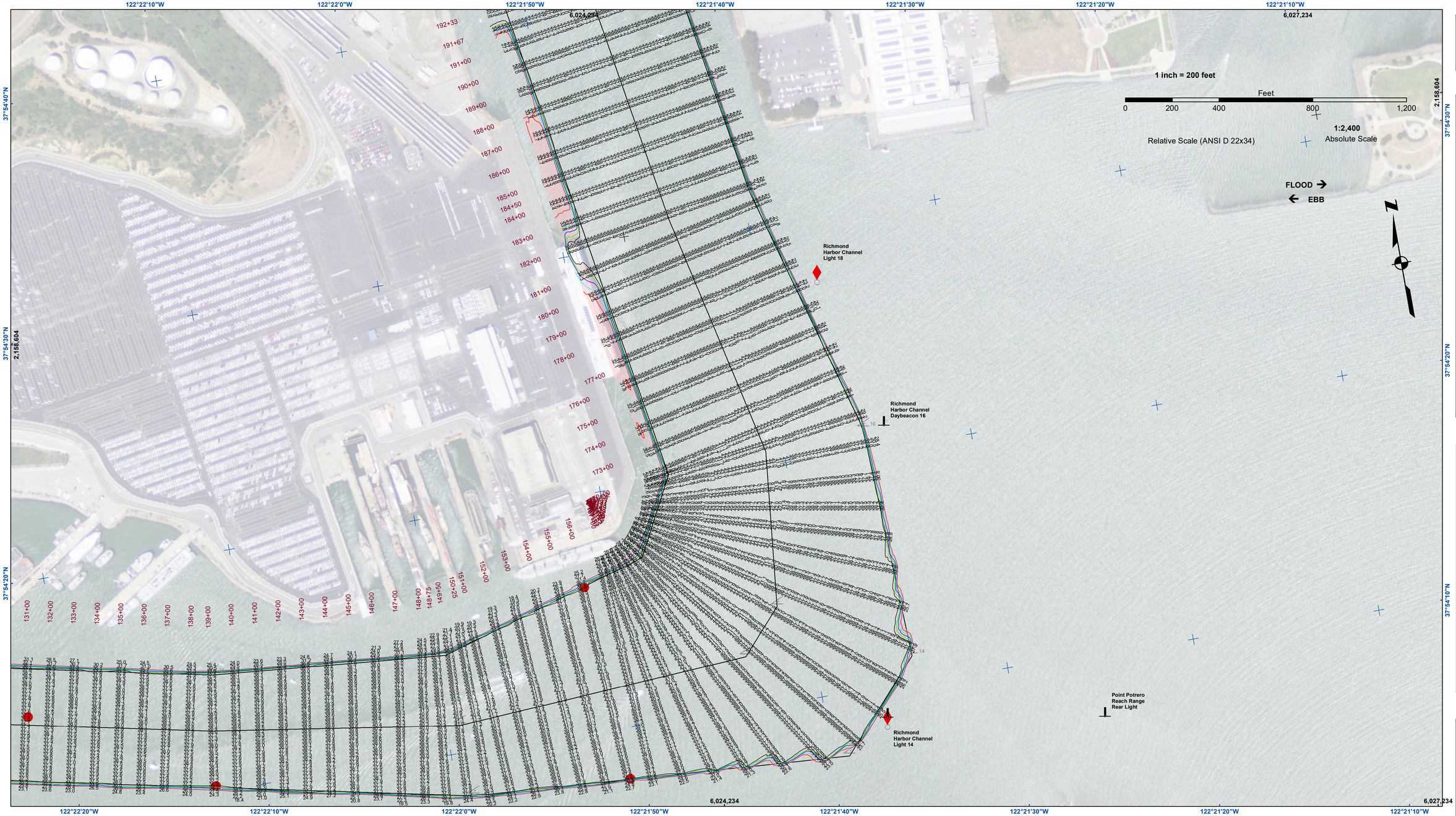
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E. DISTRICT ENGINEER

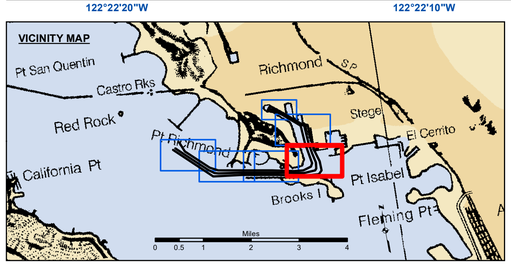
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND INNER HARBOR
POST-DREDGE SURVEY
AUGUST 2022 TO JANUARY 2023

Sheet Reference Number
3 of 6





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
-37
-36
-35
-34
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Chart Date: Mar 06, 2023
Surveyed By:
Designed by:
Plotted By: PDT
Drawn by: PDT
Checked By: PDT

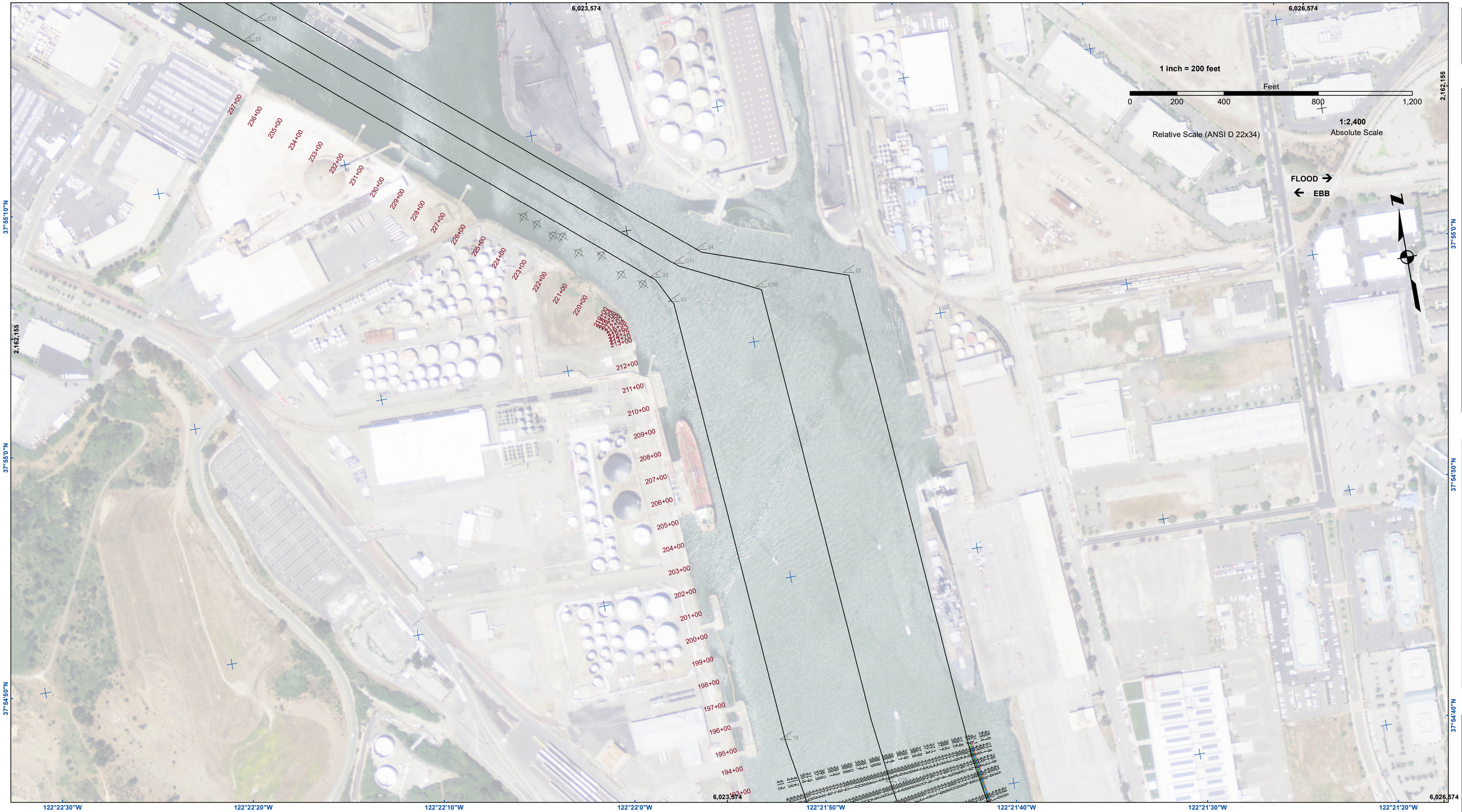
PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT COLONEL, C.E., DISTRICT ENGINEER

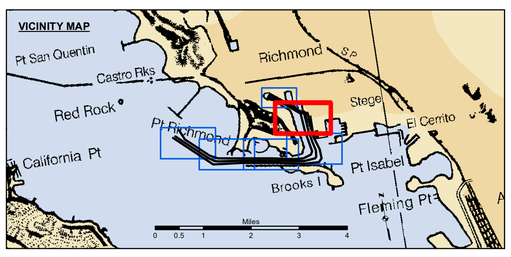
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND INNER HARBOR
POST-DREDGE SURVEY
AUGUST 2022 TO JANUARY 2023

Sheet Reference Number
4 of 6





Federal Navigation Channel
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Surveyed By:
Plotted By: PDT
Designed by:
Checked By: PDT
Drawn by: PDT

PREPARED UNDER THE DIRECTION OF
KEVIN P. ARNETT
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND INNER HARBOR
POST-DREDGE SURVEY
AUGUST 2022 TO JANUARY 2023

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Checked By:	PDT

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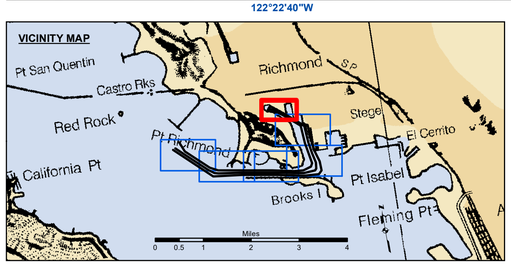
Sheet Reference Number
6 of 6



- 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
- -37
- -36
- -35
- -34
- -33

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.

VERTICAL DATUM:
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.

*SHOALEST SOUNDING PER QUARTER PER REACH

Reach 1 & 2 – 1/18/2023
Reach 3 – 1/6/2023
Reach 4 10/17/2022
Reach 5 – 8/19-23/2022
Reach 6 – 8/15/2022
Reach 7 – 9/2/2022
Reach 8 – 9/13/2022
Reach 9 -10/3/2022
Reach 10 – 9/29/2022

DRAWING NOT TO BE USED FOR NAVIGATION.
ONLY CHANNEL CONDITION AT DATE OF SURVEY,
THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON
INFORMATION PROVIDED BY THE U.S. COAST GUARD BUOY LOCATION REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

BASE MAPS ARE USDA NAIP 2010.

THE PROJECT DEPTHS ARE AS FOLLOWS:
INNER HARBOR CHANNEL -38.0 FEET.
SANTE FE CHANNEL -30 FEET.

(INNER HARBOR CHANNEL) BENCHMARK A-558 ELEV 15.81FT. MLLW.
BENCHMARK #2 (1932) USC&GS 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