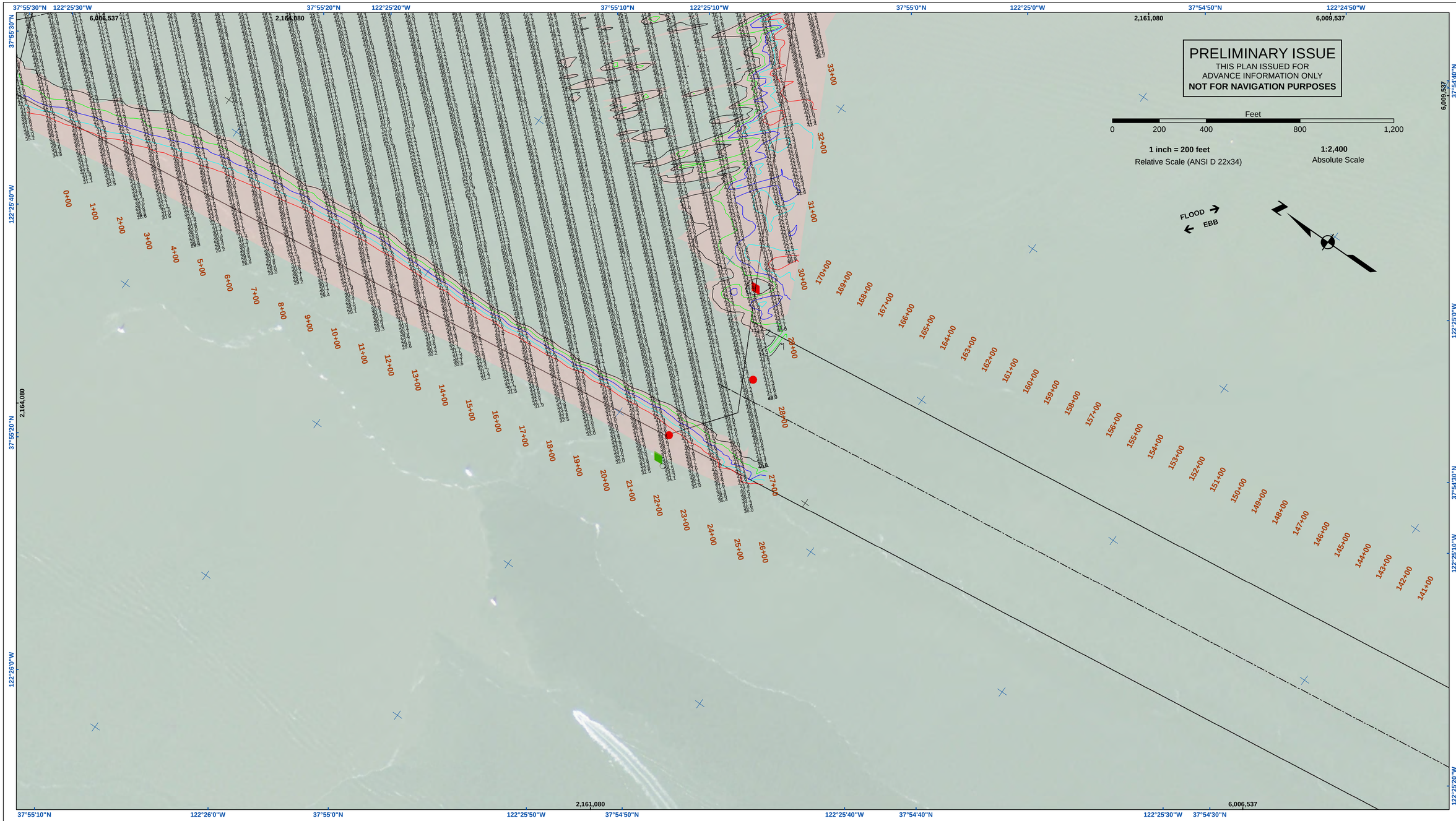

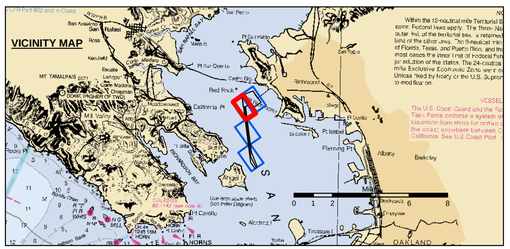

Federal Navigation Channel
Shoaling Area
Placement Area
Anchorage Area
Wreck Area
Submerged Wreck
Angle Point

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

Contours
-45
-44
-43
-42
-41

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
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.

SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH 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:
SOUTHAMPTON SHOALS CHANNEL -45 FEET.
LONG WHARF MANEUVERING AREA -45 FEET.

1:00 INDICATED THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.

HORIZONTAL CONTROL:
HORIZONTAL POSITIONING: COAST GUARD DGPS
VERTICAL/TIDES: INTERPOLATED FROM NOAA ONLINE TIDE STATIONS:
941 4863 - RICHMOND, CA
941 4290 - SAN FRANCISCO,

VERTICAL CONTROL:
(SOUTHAMPTON SHOALS & LONG WHARF MANEUVERING) BENCHMARK "10" 1937 ELEV 15.86 FT. MLLW.
AND BENCHMARK "11" 1946 ELEV 15.47 FT. MLLW.
TIDE GUAGE LOCATED AT TIBURON NET DEPOT.

US Army Corps of Engineers®
San Francisco District
450 Golden Gate Avenue
San Francisco, CA 94102

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Surveyed By:	
Chart Date:	Oct 04, 2024
Plotted By:	PDT
Designed by:	
Checked By:	PDT
Drawn by:	PDT

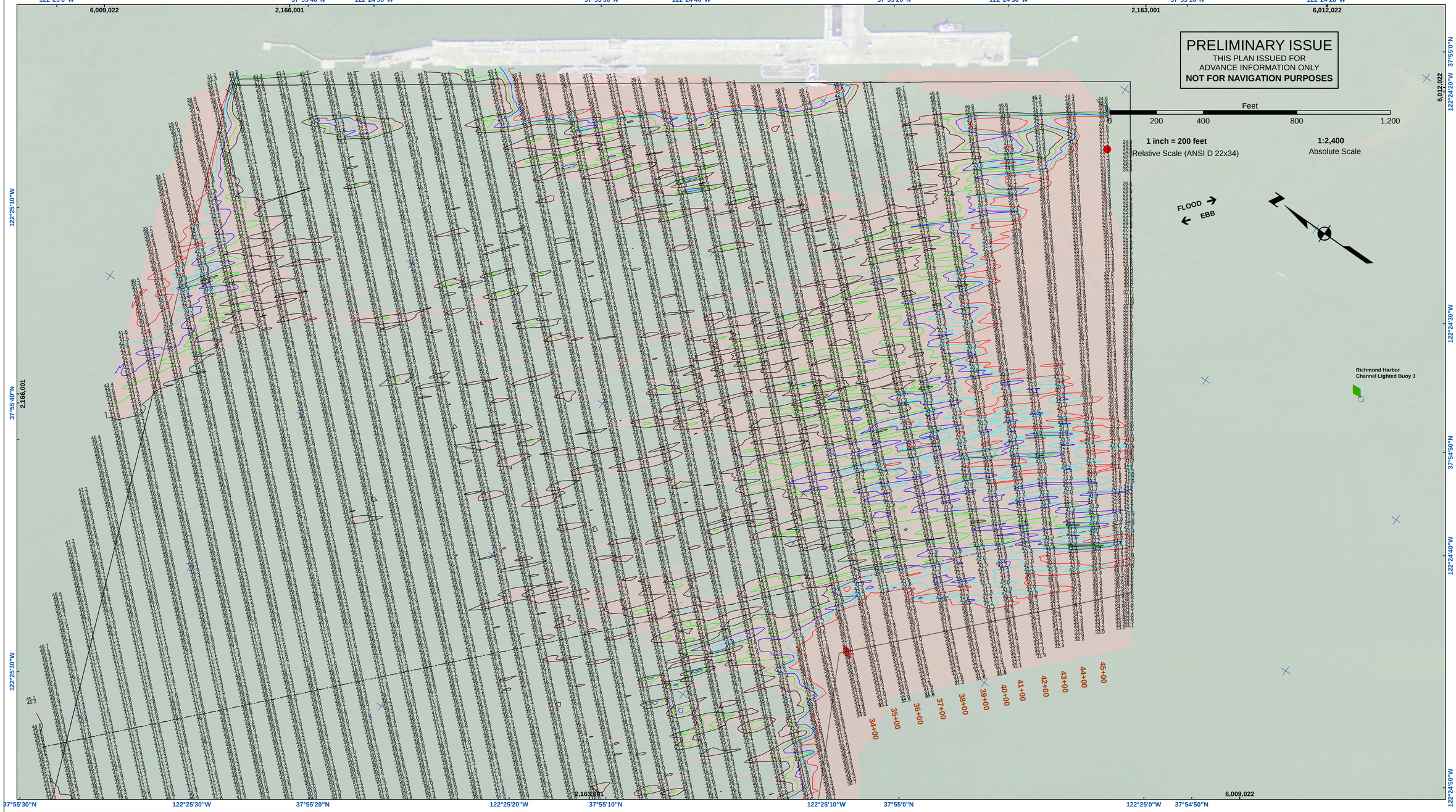
PREPARED UNDER THE DIRECTION OF
TIMOTHY W. SHEBESTA
LT COLONEL, C.E. DISTRICT ENGINEER

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

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND OUTER HARBOR LONGWHARF CONDITION SURVEY 03 OCTOBER 2024

Sheet Reference Number
3 of 4


PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY
NOT FOR NAVIGATION PURPOSES
Feet
0
200
400
800
1,200
1 inch = 200 feet
Relative Scale (ANSI D 22x34)
1:2,400
Absolute Scale
FLOOD
EBB
Richmond Harbor
Channel Lighted Buoy 3
34+00
35+00
36+00
37+00
38+00
39+00
40+00
41+00
42+00
43+00
44+00
45+00
122°25'0"W
37°55'40"N
122°24'50"W
37°55'30"N
122°24'40"W
37°55'20"N
122°24'30"W
37°55'10"N
122°24'20"W
37°55'0"N
122°24'10"W
37°54'50"N
122°25'10"W
122°25'20"W
122°25'30"W
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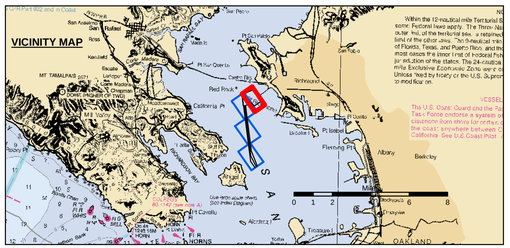
6,012,022


VICINITY MAP
MT TAMALPAIS
Richmond
Point Richmond
Red Rock
California Pt
Pt Isabel
Albany
Berkeley
Emeryville
Alameda
Oakland
Yerba Buena Island
Treasure Island
Angel Island
Tiburon
Sausalito
Mill Valley
San Rafael
San Quentin
Point Pinole
Point Orlando
Point Richmond Range
Richmond Inner Harbor Channel
Richmond Outer Harbor Channel
Point Richmond Channel
Richmond Harbor Channel
Richmond Harbor Channel Lighted Buoy 3
Richmond Harbor Channel Lighted Buoy 1
Richmond Harbor Channel Lighted Buoy 2
Richmond Harbor Channel Lighted Buoy 4
Richmond Harbor Channel Lighted Buoy 5
Richmond Harbor Channel Lighted Buoy 6
Richmond Harbor Channel Lighted Buoy 7
Richmond Harbor Channel Lighted Buoy 8
Richmond Harbor Channel Lighted Buoy 9
Richmond Harbor Channel Lighted Buoy