

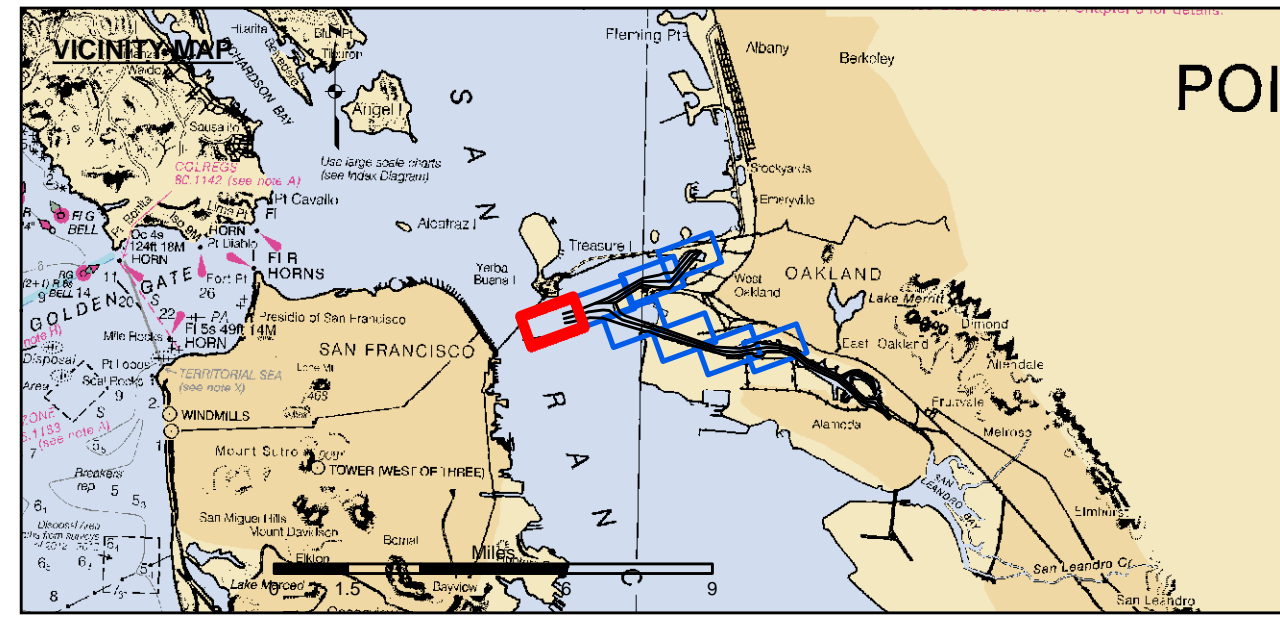
US Army Corps of Engineers
 San Francisco District
 450 Golden Gate Ave
 San Francisco, CA 94102

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Prepared Under the Direction of	Chart Date
LT COLONEL C.E. DISTRICT ENGINEER	May 13, 2019
Travis J. Rayfield	Designed by:
Hydro Survey Team Leader	Plotted By:
Navigation Technical Manager	Checked By:
Project Manager	Drawn by:

ALAMEDA COUNTY
 OAKLAND HARBOR
 INNER HARBOR
 CONDITION SURVEY
 24-30 APRIL 2019

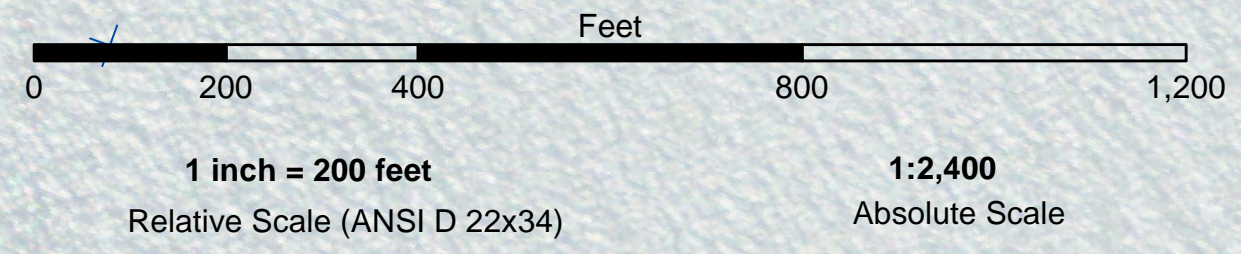
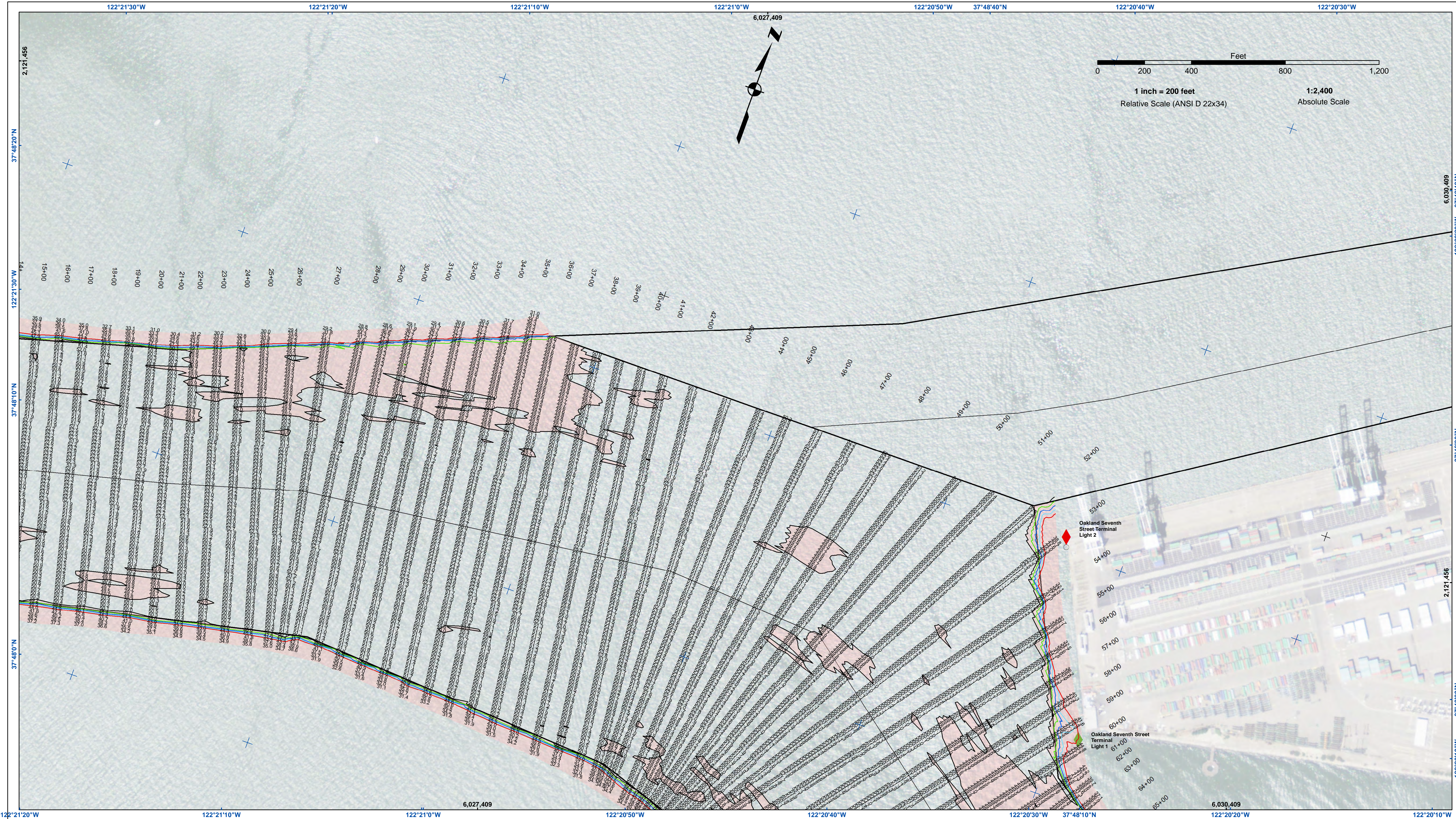
Sheet
 Number
 1 of 8



- 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
- 50
- 49
- 48
- 47
- 46

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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 *SHOALEST SOUNDING PER QUARTER PER REACH

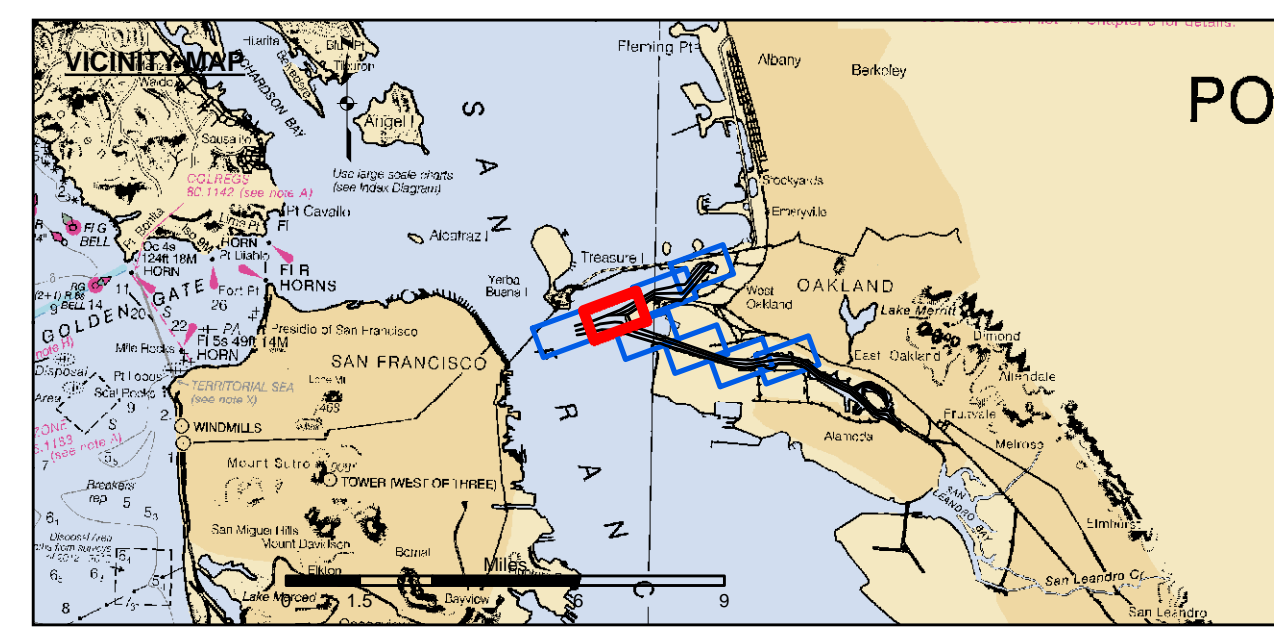
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Plotted By:	Hydro Survey Team Leader
Designed By:	Navigation Technical Manager
Checked By:	Project Manager
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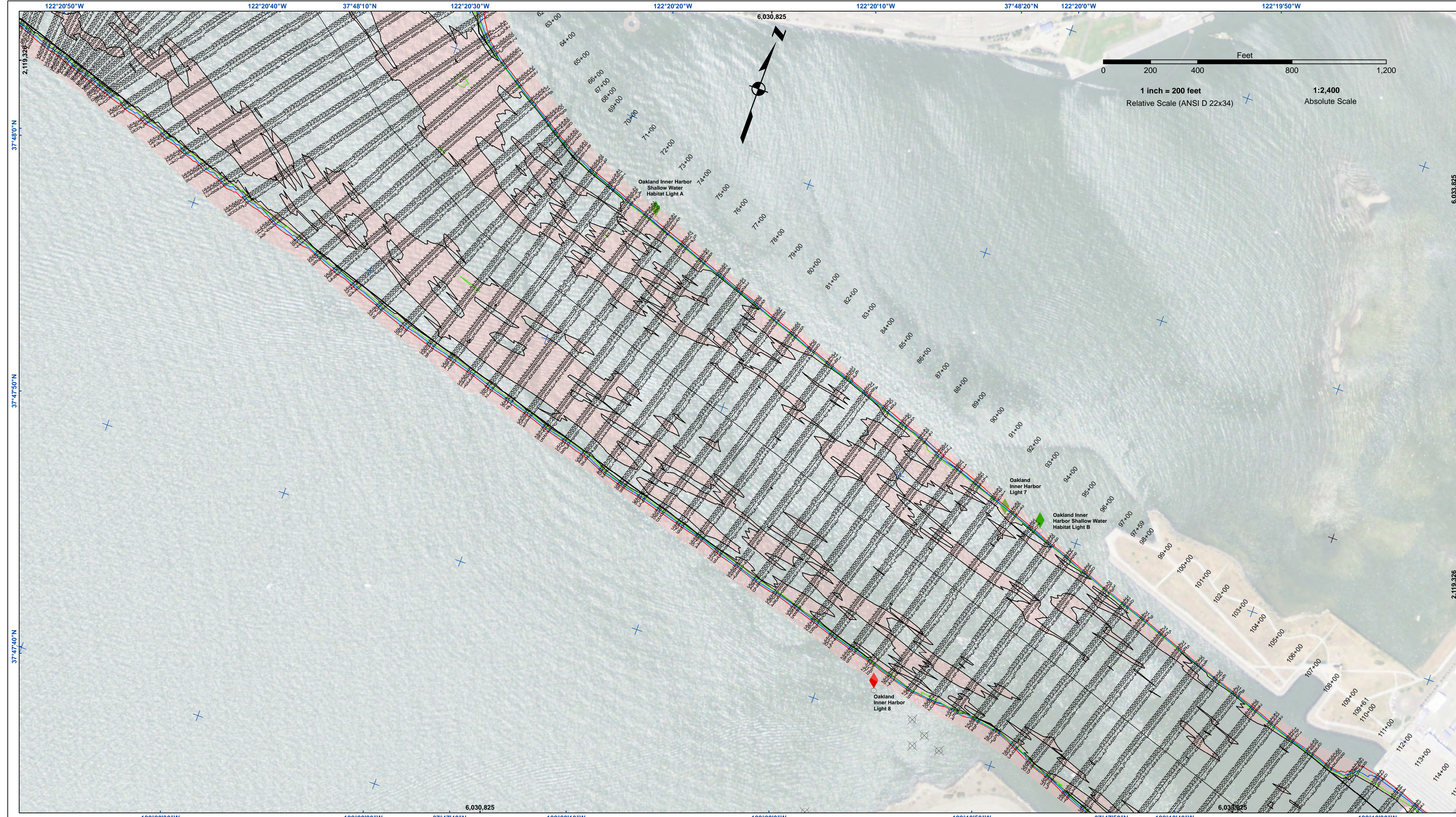
ALAMEDA COUNTY
 OAKLAND HARBOR
 INNER HARBOR
 CONDITION SURVEY
 24-30 APRIL 2019



- | | | |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | -50 |
| Placement Area | Navigation Buoy | -49 |
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| Submerged Wreck | | -46 |
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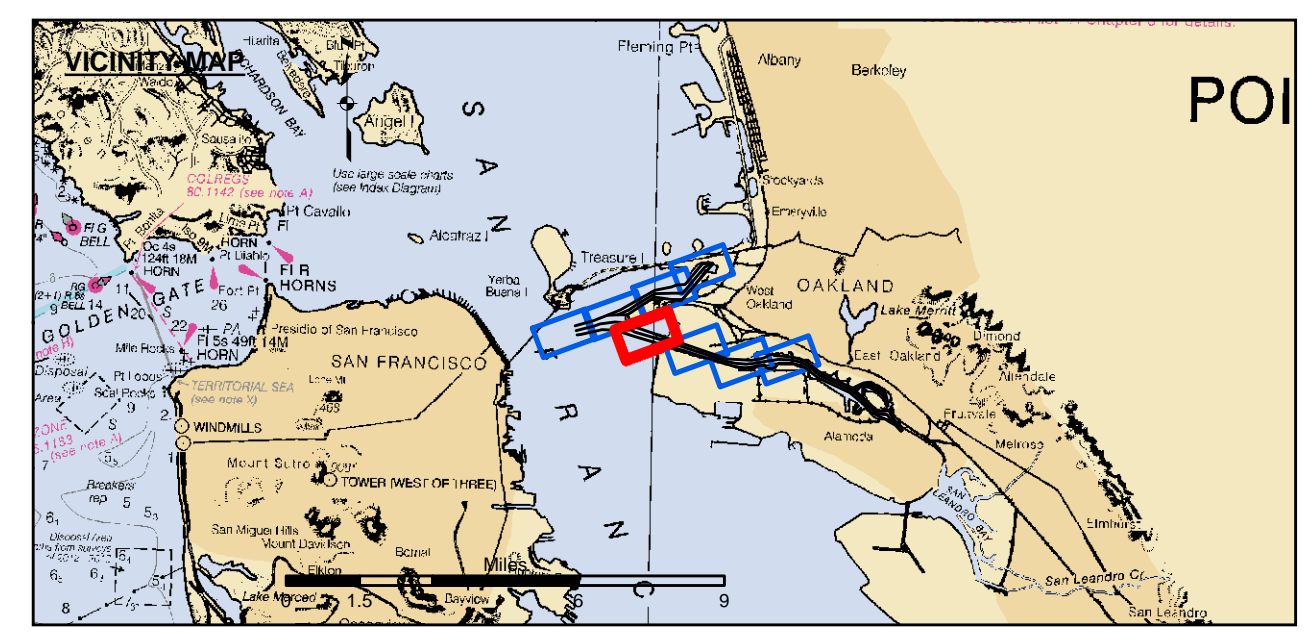
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Surveyed By:	
Plotted By:	
Checked By:	
Project Manager:	

ALAMEDA COUNTY
OAKLAND HARBOR
 INNER HARBOR
 CONDITION SURVEY
 24-30 APRIL 2019

Sheet Reference Number
 5 of 8



- | | | |
|----------------------------|--------------------|----------|
| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | -50 |
| Placement Area | Navigation Buoy | -49 |
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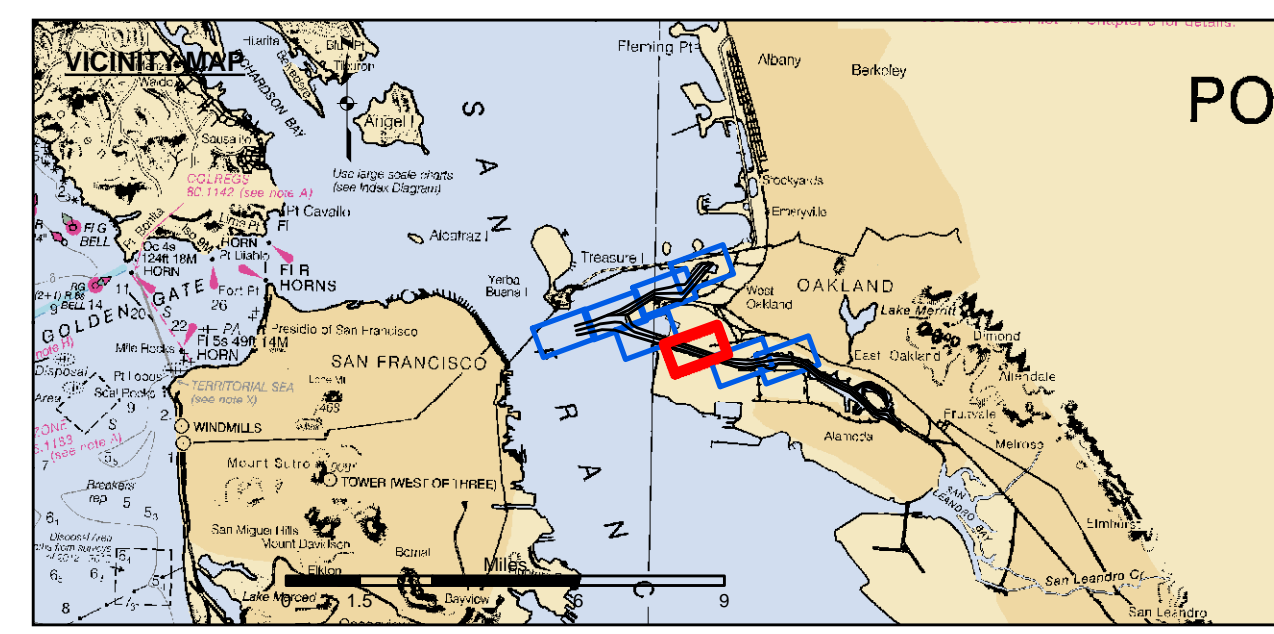
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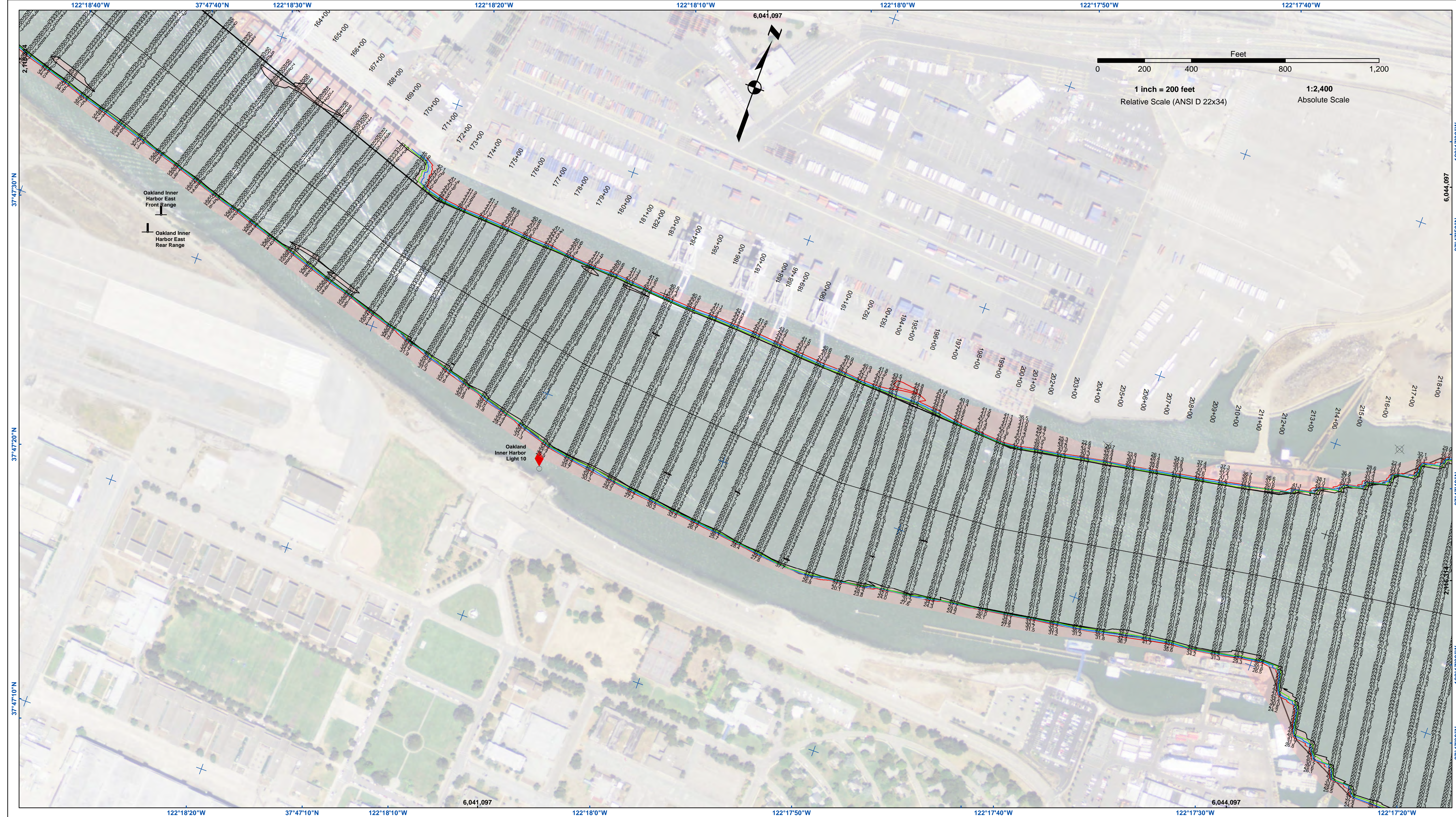
- | | | |
|----------------------------|--------------------|-----------------|
| Federal Navigation Channel | Beacon, General | Contours |
| Shoaling Area | Obstruction Point | -50 |
| Placement Area | Navigation Buoy | -49 |
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ALAMEDA COUNTY
 CALIFORNIA
OAKLAND HARBOR
 INNER HARBOR
 CONDITION SURVEY
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Sheet
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Number
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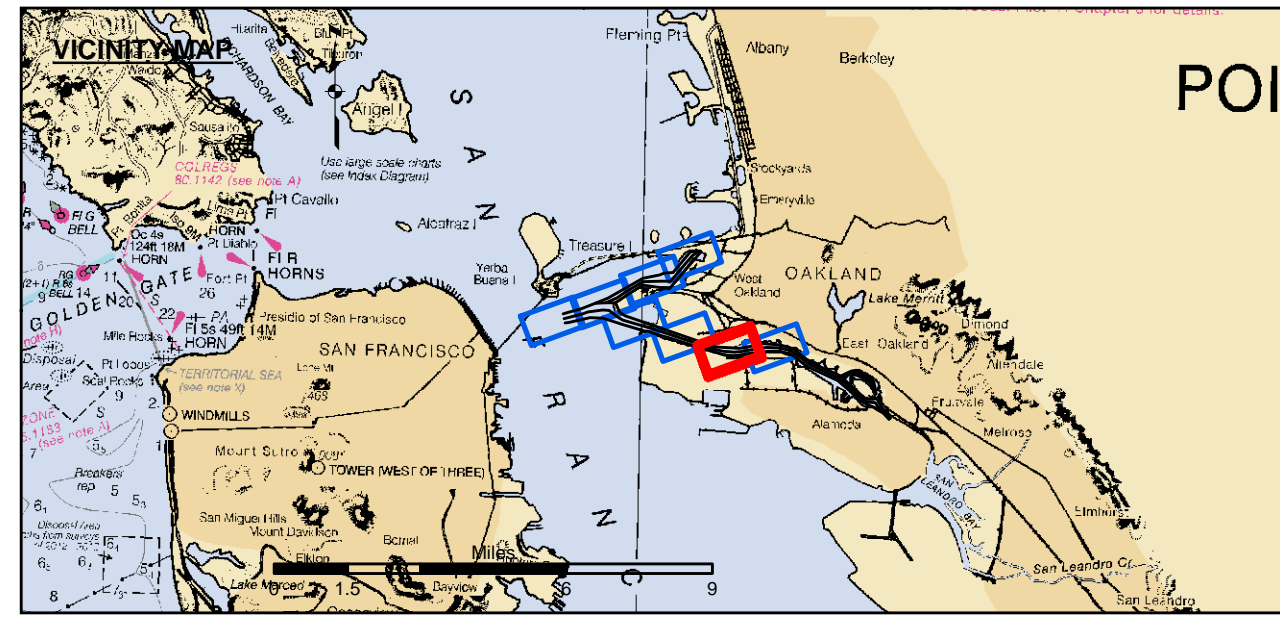


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ALAMEDA COUNTY
OAKLAND HARBOR
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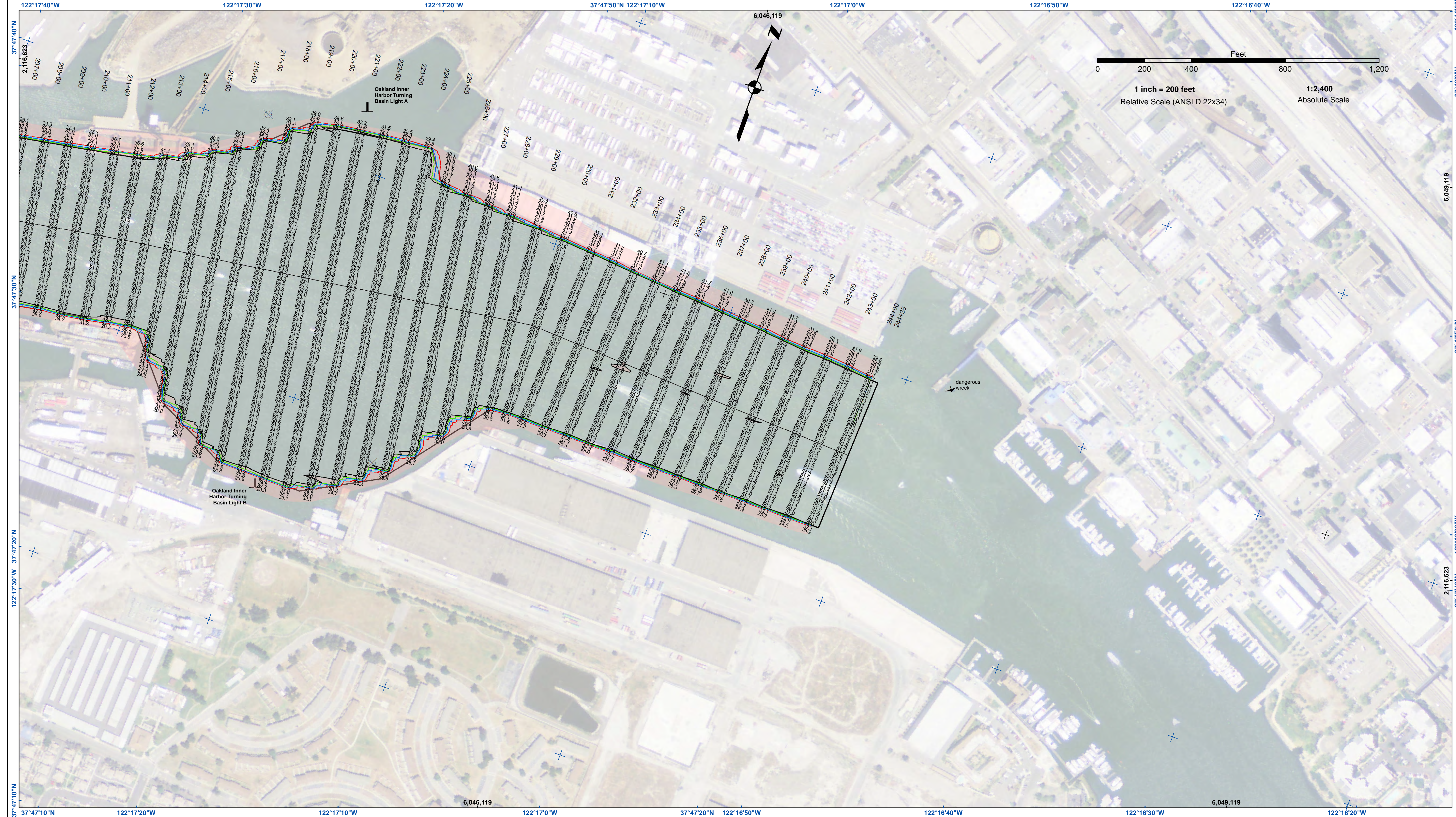


- | | | |
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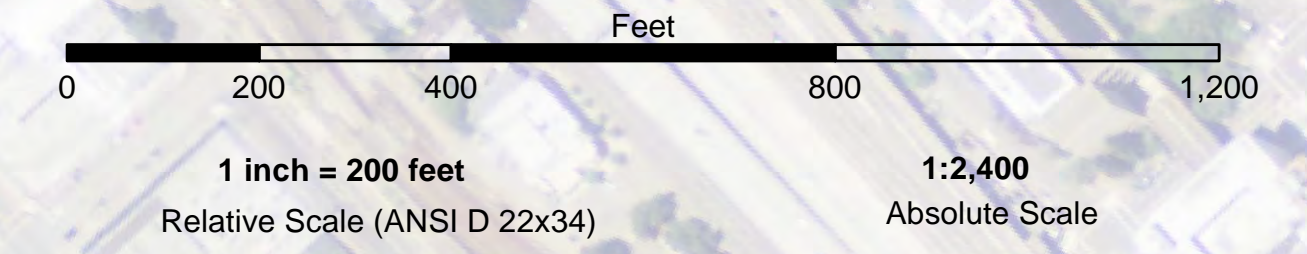
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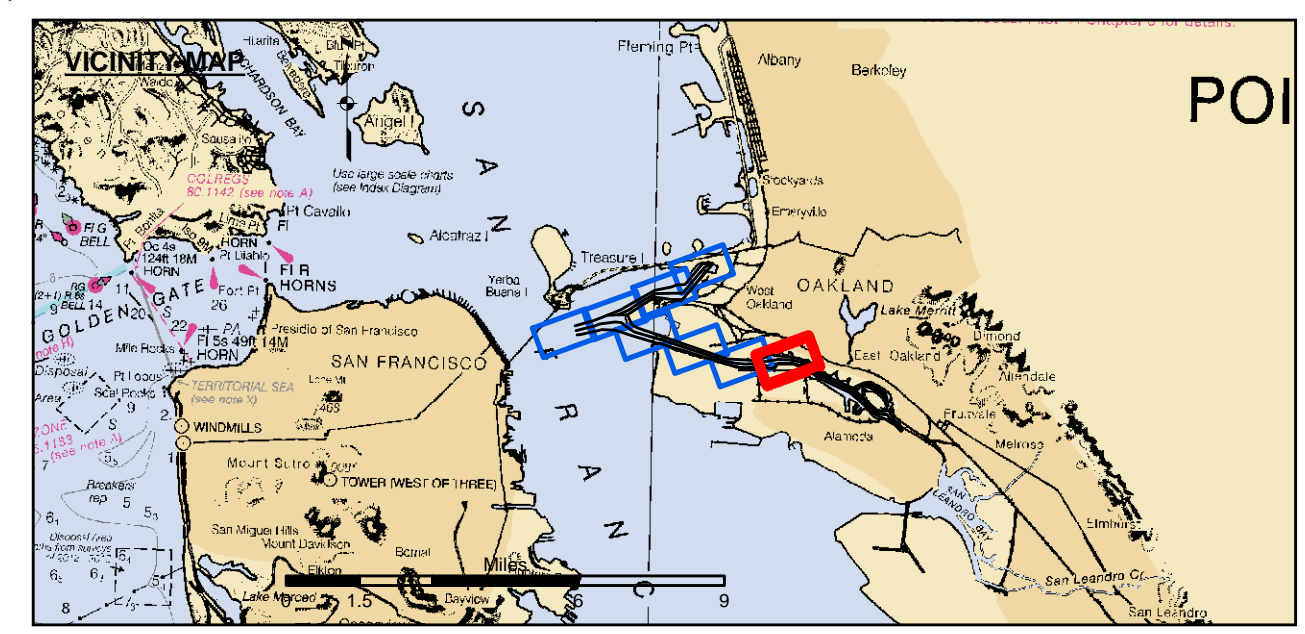
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 PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, NAD 83, ZONE III CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 238, PUBLISHED BY THE NATIONAL OCEAN SURVEY.
 HORIZONTAL CONTROL: PRIMARY: RTK POSITIONING SECONDARY: COAST GUARD DGPS D-BEACON
 VERTICAL CONTROL: PRCP: PORT 1 1936/PID HT0654. OAKLAND INNER REACH 4-8 DISK SET AT SOUTH END OF CLAY STREET, AT THE PORT OF OAKLAND CLAY STREET PIER. ELEVATION: 9.56 FEET MLLW - PUBLISHED 21 APR 2003 ON NOAA STATION 941 4764 TIDE GAUGE LOCATION IS CHISEL MARK APPROX. 10 FEET WEST ON TOP OF CONCRETE CURB; CHISEL ELEVATION 11.0 FEET MLLW. LPOP 1: 941 4777 B TIDAL/PID AE211, OAKLAND INNER REACH 1-3 DISK SET IN BALLARD FOUNDATION NEAR THE NORTHEAST END OF BERTH 40 OF THE OAKLAND MIDDLE HARBOR. ELEVATION: 13.48 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDATUM MODELS. TIDE GAUGE LOCATION IS IN FACE OF PILING AT BERTH 37; NAIL ELEVATION 9.7 FEET MLLW. LPOP 2: OAK OUTER 1 2012/PID OAKLAND OUTER REACH 7-10 DISK SET IN PARKING LOT AT PIER 6/MNAV TUG TERMINAL AT THE EDGE OF THE PIER. ELEVATION: 14.04 FEET MLLW - DERIVED FROM WGS-84 ELLIPSOID ELEVATION, GEOID09 AND VDATUM MODELS TIDE GAUGE LOCATION IS IN FACE OF PILING AT PIER 6, 10' EAST OF BENCHMARK; NAIL ELEVATION 10.1 FEET MLLW.

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