

NOTES:
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 LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND DOES NOT REFLECT CONDITIONS THAT MAY HAVE CHANGED SINCE THE DATE OF SURVEY.
DEPTH UNITS IN U.S. SURVEY FEET. DEPTHS ARE SHOWN AS POSITIVE VALUES.
DISTANCE UNITS IN MILES.
COORDINATES ARE BASED ON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM (SPCS) ZONE III, LAMBERT CONFORMAL PROJECTION REFERENCED TO NAD83, AS DESCRIBED IN SPECIAL PUBLICATION NO. 238, PUBLISHED BY NATIONAL OCEAN SURVEY.
BASE MAPS ARE USGS NAP 2010.

HORIZONTAL CONTROL DATUM:
NAVD88(2011) EPOCH 2010.00

CONTROL:
POINT PINOLE 4 RESET | PID: JT2895 BM 5056 A | PID: BBCN55
OPUS 3/19/2020 9415056

**POINT PINOLE 4 RESET | PID: JT2895 BM 5056 A | PID: BBCN55
OPUS 3/19/2020 9415056**

TIDE GAUGE:
NAD & BRASS DISK SET IN DOLPHIN AT 10 FT MLLW APPROX POSITION: 38°04'9.9"N, 122°15'4.4"W
POSITIONS AND SOUNDINGS HAVE BEEN CORRECTED USING PRK TECHNIQUES USING A CORS NETWORK
BASE STATION AT CHEN.

SURVEY VESSEL / EQUIPMENT:
- SV T-20 R SINGLE-HEAD MULTIBEAM ECHOSOUNDER
- POS MV 220 VERS HW2.5-12
- MULTIBEAM AT1675-540TS GPS ANTENNA

SAN PABLO BAY PINOLE SHOAL CONDITION SURVEY 5-30 JANUARY 2024

U.S. ARMY CORPS OF ENGINEERS
San Francisco District
450 Golden Gate Ave.
San Francisco, CA 94102

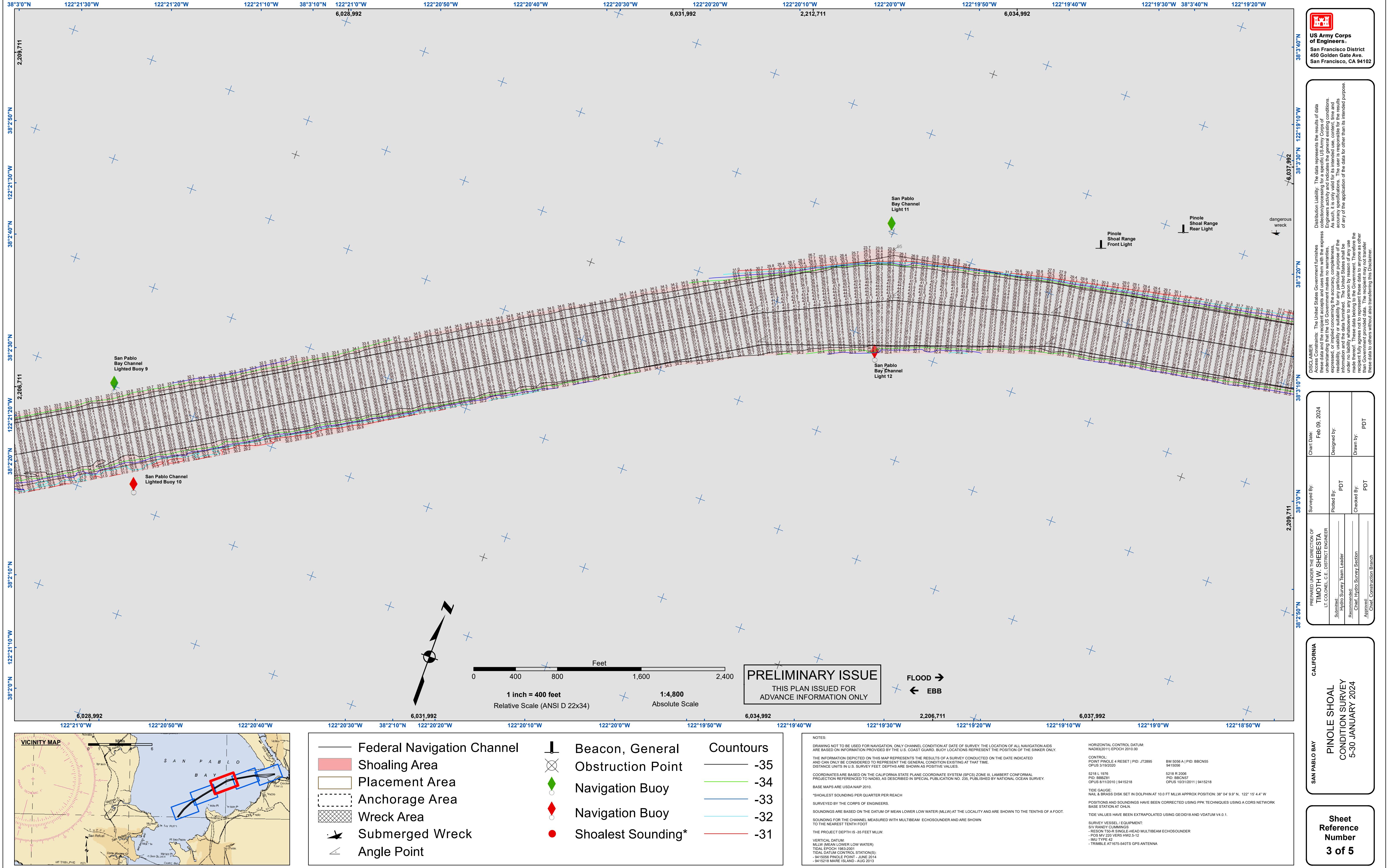
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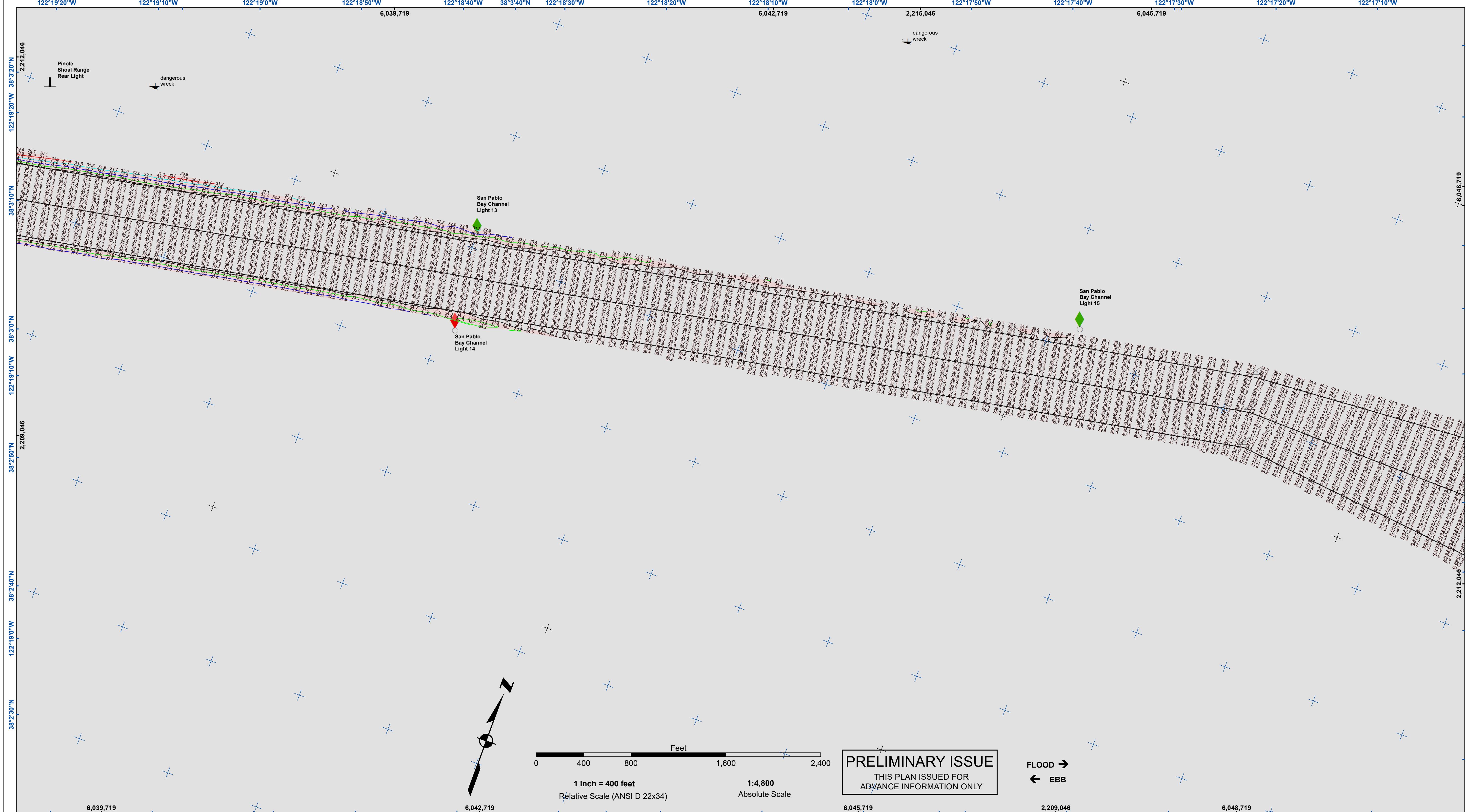
PREPARED UNDER THE DIRECTION OF	Surveyed By:	Chart Date:
TIMOTHY W. SHEBESTA LT. COLONEL, C.E., DISTRICT ENGINEER		Feb 09, 2024
Submitted:	Potted By:	
Hydro Survey Team Leader	PDT	
Recommended:	Drawn by:	
Chief Hydro Survey Section	PDT	
Approved:	Checked By:	
Chief, Construction Branch	PDT	

Sheet Reference Number
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CORPS OF ENGINEERS

U.S. ARMY



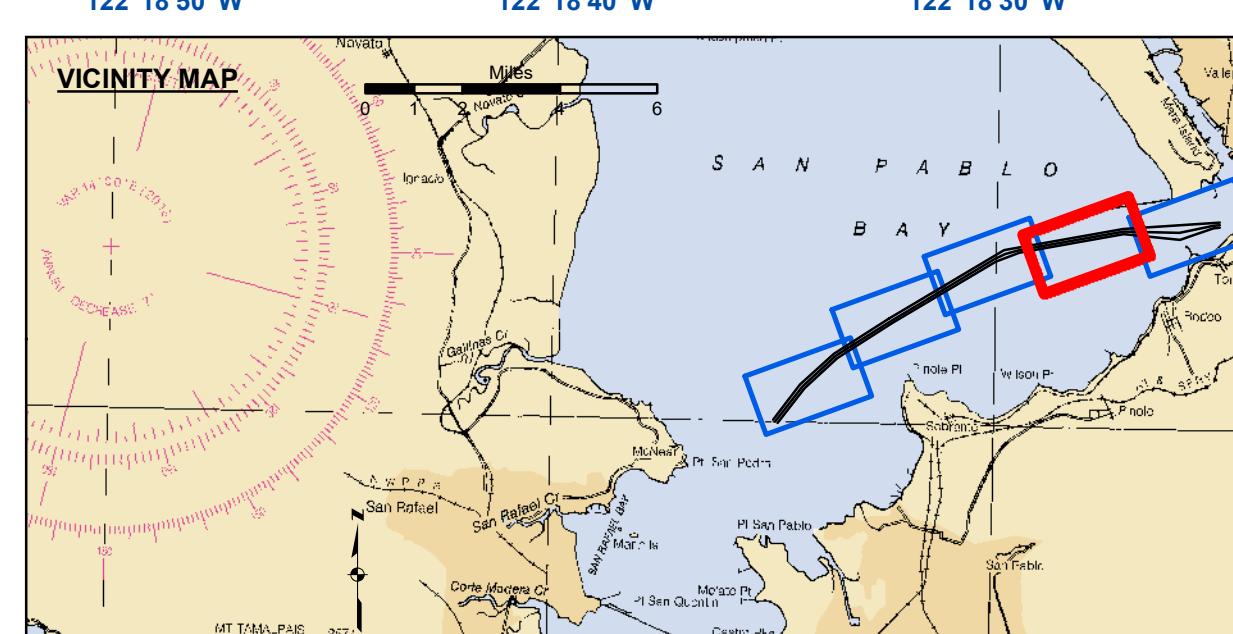


2,400

PRELIMINARY ISSUE

THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY

FLOOD →
← **EBO**



- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- ▨ Wreck Area
- ↗ Submerged Wreck
- ↖ Angle Point

Channel		Beacon, General
		Obstruction Point
		Navigation Buoy
		Navigation Buoy
		Shoal/lest Soundings

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t	<input type="text"/>	-3
	<input type="text"/>	-3
g*	<input type="text"/>	-3

NOTES:

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 LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

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.
DISTANCE UNITS IN U.S. SURVEY FEET. DEPTHS ARE SHOWN AS POSITIVE VALUES.

COORDINATES ARE BASED ON THE CALIFORNIA STATE PLANE COORDINATE SYSTEM (SPCS) ZONE III, LAMBERT CONFORMAL PROJECTION REFERENCED TO NAD83, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN SURVEY.

BASE MAPS ARE USDA NAIP 2010.

*SHOALEST SOUNDING PER QUARTER PER REACH

SURVEYED BY THE CORPS OF ENGINEERS.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER (MLLW) AT THE LOCALITY AND ARE SHOWN TO THE TENTHS OF A FOOT

SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH FOOT

THE PROJECT DEPTH IS -35 FEET MLLW.

VERTICAL DATUM:
MLLW (MEAN LOWER LOW WATER)
TIDAL EPOCH 1983-2001
TIDAL DATUM CONTROL STATION(S):
- 9415056 PINOLE POINT - JUNE 2014
- 9415218 MARE ISLAND - AUG 2013

HORIZONTAL CONTROL DATUM:
NAD83(2011) EPOCH 2010.00

CONTROL:
POINT PINOLE 4 RESET | PID: JT2895
OPUS 3/19/2020 BM 5056 A | PID: BBCN55
9415056

5218 L 1976 5218 R 2006
PID: BBBZ81 PID: BBCN57
OPUS 8/11/2010 | 9415218 OPUS 10/31/2011 | 9415218

TIDE GAUGE:
NAIL & BRASS DISK SET IN DOLPHIN AT 10.0 FT MLLW APPROX POSITION: 38° 04' 9.9" N, 122° 15' 4.4" W

POSITIONS AND SOUNDINGS HAVE BEEN CORRECTED USING PPK TECHNIQUES USING A CORS NETWORK BASE STATION AT OHLN.

TIDE VALUES HAVE BEEN EXTRAPOLATED USING GEOID18 AND VDATUM V4.0.1.

SURVEY VESSEL / EQUIPMENT:
S/V RANDY CUMMINGS
- RESON T50-R SINGLE-HEAD MULTIBEAM ECHOSOUNDER
- POS MV 220 VER5 HW2.5-12
- IMU TYPE 42
- TRIMBLE AT1675-540TS GPS ANTENNA

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Number
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