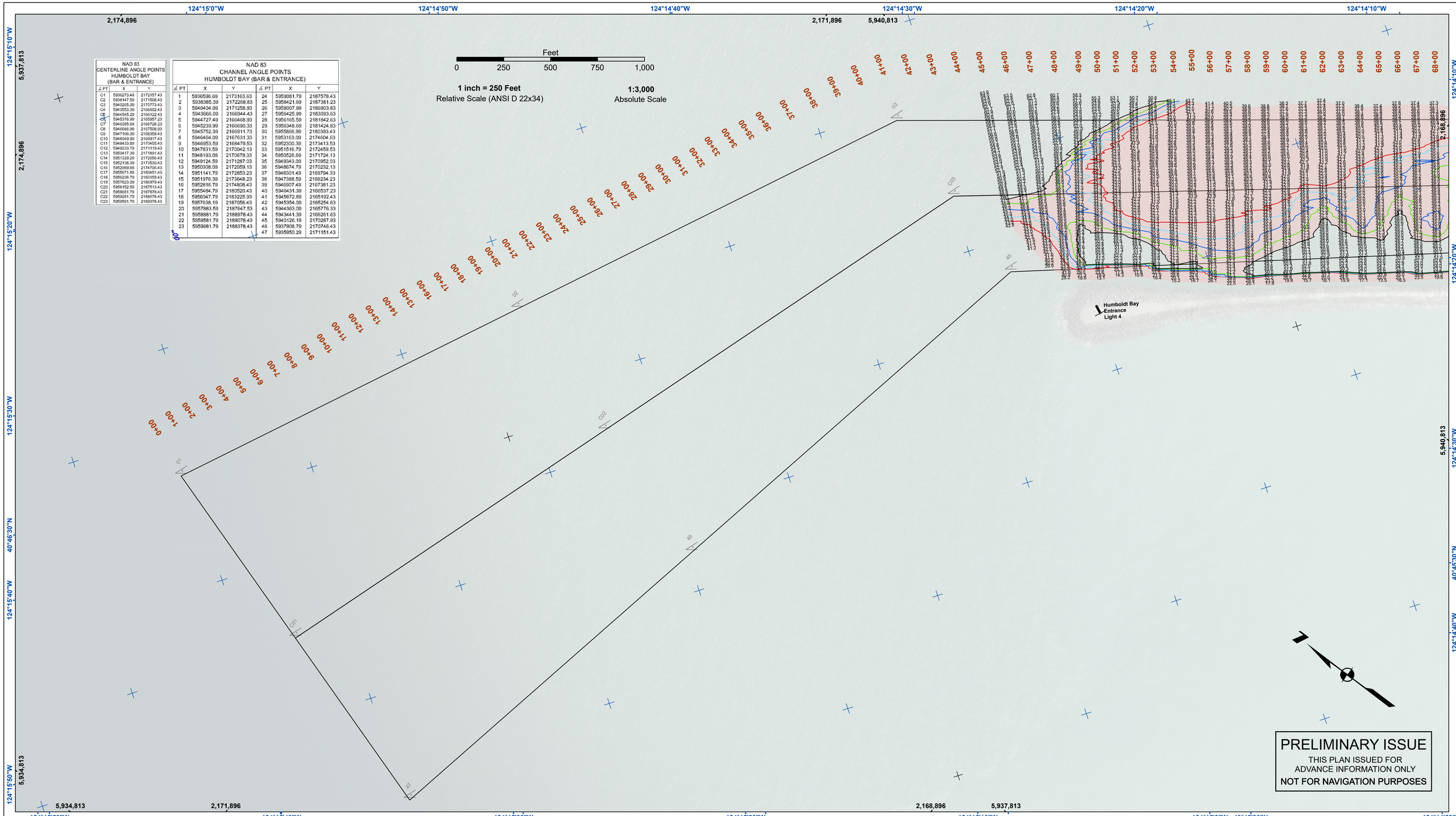
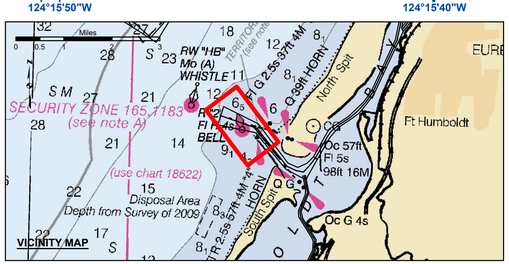


NAD 83
CENTERLINE ANGLE POINTS
HUMBOLDT BAY
(BAR & ENTRANCE)

∠ PT	X	Y
C1	5936273.49	2172157.43
C2	5938147.59	2171508.43
C3	5942005.09	2170773.43
C4	5943553.39	2166602.43
C5	5944545.29	2166122.43
C6	5945376.99	2165957.23
C7	5946085.69	2166728.23
C8	5946686.99	2167508.93
C9	5947166.09	2168359.43
C10	5948049.99	2169917.43
C11	5949433.89	2170455.43
C12	5949233.79	2171119.43
C13	5950417.39	2171891.43
C14	5951029.29	2172656.43
C15	5952138.39	2173530.43
C16	5952999.89	2174706.43
C17	5955671.89	2180451.43
C18	5956236.79	2183169.43
C19	5957823.09	2186979.43
C20	5958152.59	2187513.43
C21	5958681.79	2187978.43
C22	5959281.79	2188078.43
C23	5959581.79	2188378.43

NAD 83
CHANNEL ANGLE POINTS
HUMBOLDT BAY (BAR & ENTRANCE)

∠ PT	X	Y	∠ PT	X	Y
1	5936596.69	2173163.63	24	5959081.79	2187578.43
2	5938385.39	2172268.83	25	5958421.69	2187381.23
3	5940404.09	2171258.93	26	5958007.39	2186903.83
4	5943666.09	2166944.43	27	5956425.99	2183093.63
5	5944727.49	2166468.93	28	5956105.59	2181842.63
6	5945239.99	2166680.33	29	5956348.69	2181424.83
7	5945752.39	2166911.73	30	5955866.99	2180393.43
8	5946464.09	2167631.33	31	5953163.09	2174604.63
9	5946953.59	2168479.53	32	5952300.39	2173413.63
10	5947831.59	2170042.13	33	5951516.79	2172459.53
11	5948193.09	2170679.33	34	5950526.69	2171724.13
12	5949124.59	2171287.03	35	5949343.09	2170952.03
13	5950038.09	2172059.13	36	5948674.79	2170232.13
14	5951141.79	2172853.23	37	5948301.49	2169784.33
15	5951976.39	2173648.23	38	5947388.59	2168234.23
16	5952816.79	2174508.43	39	5946807.49	2167381.23
17	5955484.79	2180520.43	40	5946431.39	2166537.23
18	5956047.79	2183225.93	41	5945672.89	2165192.43
19	5957638.19	2187056.43	42	5945354.09	2165254.63
20	5957883.59	2187647.53	43	5944363.09	2165776.33
21	5958881.79	2188978.43	44	5943441.39	2166261.63
22	5959581.79	2189078.43	45	5940126.19	2170287.93
23	5959681.79	2188378.43	46	5937808.79	2170746.43
			47	5935950.29	2171151.43



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

Contours
-48
-47
-46
-45
-44

NOTES:
DRAWINGS NOT TO BE USED AS 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.

PLANE GRID AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE I NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

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BAR & ENTRANCE CHANNEL = 48 FEET
NORTH BAY, SAMOA TO MILE 5.0 & = 38 FEET
EUREKA CHANNEL, FIELDS LANDING CHANNEL & MILE 5.0 TO "N" STREET = 26 FEET

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

SOUNDINGS ARE BASED ON TIDE GUAGES REFERENCED TO U.S.C. & G.S.

Vertical and Horizontal Control:
NOAA Station: 941 8767 - North Spit, CA

Benchmark:
NO 11 1940 (PID: LV0359)
MLLW Elev: 4.251m

Tides:
RTK GPS, using GEOID12a and VDATUM
RTK elevations calibrated at 10.0ft nail at Coast Guard Station Humboldt Bay

Position:
RTK Positions

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

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PREPARED UNDER THE DIRECTION OF
VIRGINIA R. BRICKNER
LT COLONEL, C.E., DISTRICT ENGINEER

Chart Date: Mar 30, 2026		
Surveyed By:	Designed by:	Drawn by: PDT
	Plotted By: PDT	Checked By: PDT

Submitted: Technical Services Section Leader
Recommended: Chief, Technical Services Section
Approved: Chief, Geospatial Branch

CALIFORNIA
HUMBOLDT COUNTY
HUMBOLDT BAY
BAR & ENTRANCE CHANNEL
CONDITION SURVEY
24-26 JANUARY 2026

Sheet Reference Number 1 of 2

CORPS OF ENGINEERS

U.S. ARMY

124°13'50"W 40°46'10"N 124°13'40"W 40°46'0"N 124°13'30"W 40°45'50"N 124°13'20"W 40°45'40"N 124°13'10"W 40°45'30"N 124°13'0"W 40°45'20"N

5,943,813 2,168,896 5,946,813

124°14'0"W 40°46'10"N 124°14'10"W 40°46'0"N 124°14'20"W 40°45'50"N 124°14'30"W 40°45'40"N

2,171,896 5,940,813

Feet
0 250 500 750 1,000

1 inch = 250 Feet
Relative Scale (ANSI D 22x34)

1:3,000
Absolute Scale

Humboldt Bay Approach Range Rear Light

Humboldt Bay Approach Range Front Light

Humboldt Bay Light 11

135+00 134+00 133+00 132+00 131+00 130+00 129+00 128+00 127+00 126+00 125+00 124+00 123+00 122+00 121+00 120+00 119+00 118+00 117+00 116+00 115+00 112+00 110+00 108+00 107+00 106+00 105+00 104+00 103+00 102+00 101+00 100+00 99+00 98+00 97+00 96+00 95+00 94+00 93+00 92+00 91+00 90+00 89+00 88+00 87+00 86+00 85+00 84+00 83+00 82+00 81+00 80+00 79+00 78+00 77+00 76+00 75+00 74+00 73+00 72+00 71+00 70+00 69+00 68+00 67+00 66+00 65+00 64+00 63+00 62+00 61+00 60+00 59+00 58+00 57+00 56+00 55+00 54+00 53+00 52+00

Humboldt Bay Light 31

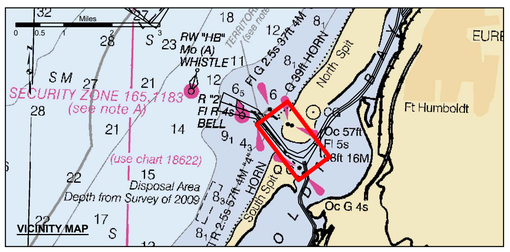
Humboldt Bay Entrance Range Front Light

Humboldt Bay Entrance Range Rear Light

PRELIMINARY ISSUE
THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY
NOT FOR NAVIGATION PURPOSES

124°14'30"W 40°45'50"N 124°14'20"W 40°45'40"N 124°14'10"W 40°45'30"N 124°14'0"W 40°45'20"N 124°13'50"W 40°45'10"N 124°13'40"W 40°45'0"N

5,940,813 2,165,896 5,943,813



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RTK Positions

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

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PREPARED UNDER THE DIRECTION OF
VIRGINIA R. BRICKNER
LT. COLONEL, C.E., DISTRICT ENGINEER

Surveyed By:		Chart Date: Mar. 30, 2026	
Plotted By: PDT		Designed by:	
Checked By: PDT		Drawn by: PDT	
Submitted: Technical Services Section Leader			
Recommended: Chief, Technical Services Section			
Approved: Chief, Geospatial Branch			

CALIFORNIA
HUMBOLDT COUNTY

HUMBOLDT BAY
BAR & ENTRANCE CHANNEL CONDITION SURVEY
24-26 JANUARY 2026

Sheet Reference Number 2 of 2