



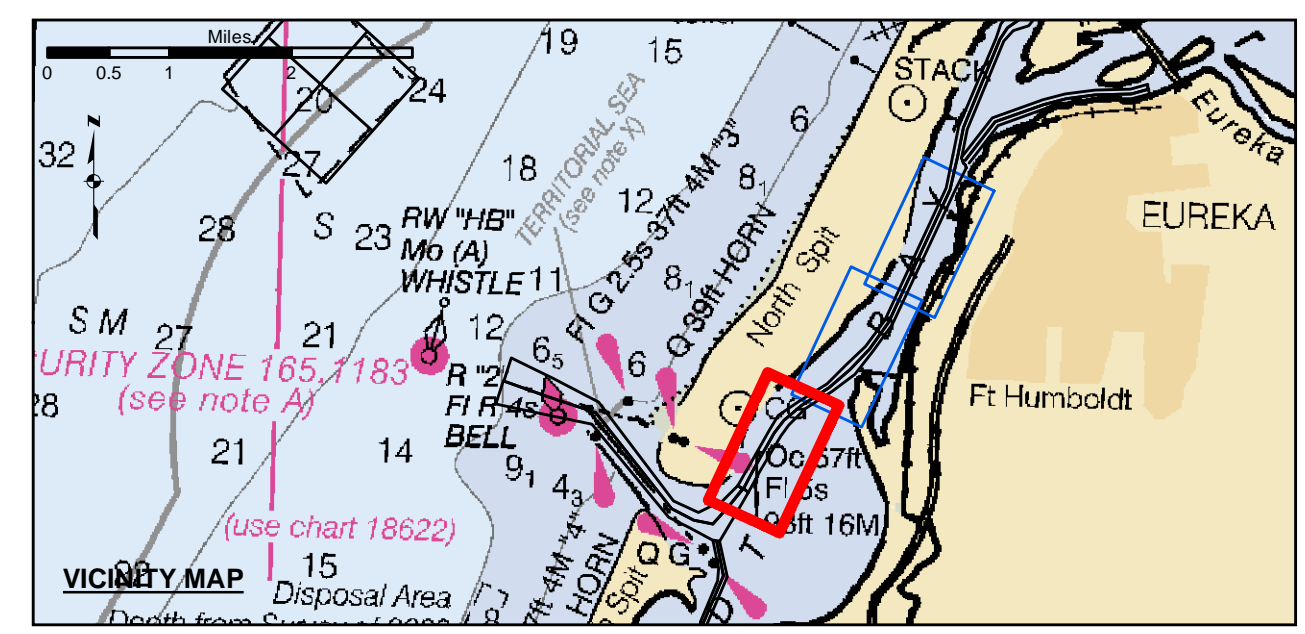
Angle Point	Easting	Northing
06	5945167.02	2166558.81
07	5945732.39	2166911.73
08	5946464.09	2167631.33
09	5946953.59	2168479.53
10	5947831.59	2170042.13
11	5948193.09	2170679.33
12	5949124.59	2172087.03
13	5950308.09	2172059.13
14	5951141.79	2172853.23
15	5951976.39	2173648.23
16	5952616.79	2174608.43
17	5953404.79	2180520.43
18	5956165.60	2181842.62
19	5956348.68	2181424.84
20	5955866.99	2180393.43
21	5953163.09	2174804.63
22	5952300.39	2173413.53
23	5951516.79	2172459.53
24	5950526.69	2171724.13
25	5949343.09	2170952.03
26	5948674.79	2170232.13
27	5948331.49	2169794.33
28	5947388.59	2168234.23
29	5946907.49	2167381.23
30	5946431.39	2166537.23
31	5946085.69	2166728.23
32	5946686.99	2167508.93
33	5947186.09	2168359.43
34	5948049.99	2169917.43
35	5948433.89	2170455.43
36	5949233.79	2171119.43
37	5950417.39	2171891.43
38	5951329.29	2172856.43
39	5952138.39	2173530.43
40	5952989.89	2174706.43
41	5955671.89	2180451.43

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

**DISCLAIMER**  
 The United States Government furnishes this information as a public service. It is not intended to be used for any purpose other than the intended purpose. The user of this information is responsible for its accuracy and for any consequences that may result from its use. The user of this information is responsible for its accuracy and for any consequences that may result from its use. The user of this information is responsible for its accuracy and for any consequences that may result from its use.

Prepared Under the Direction of <b>JOHN D. CUNNINGHAM</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Sep 26, 2020
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Plotted by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

CALIFORNIA  
 HUMBOLDT COUNTY  
**HUMBOLDT BAY**  
**NORTH BAY CHANNEL**  
 CONDITION SURVEY  
 12 SEPTEMBER 2020

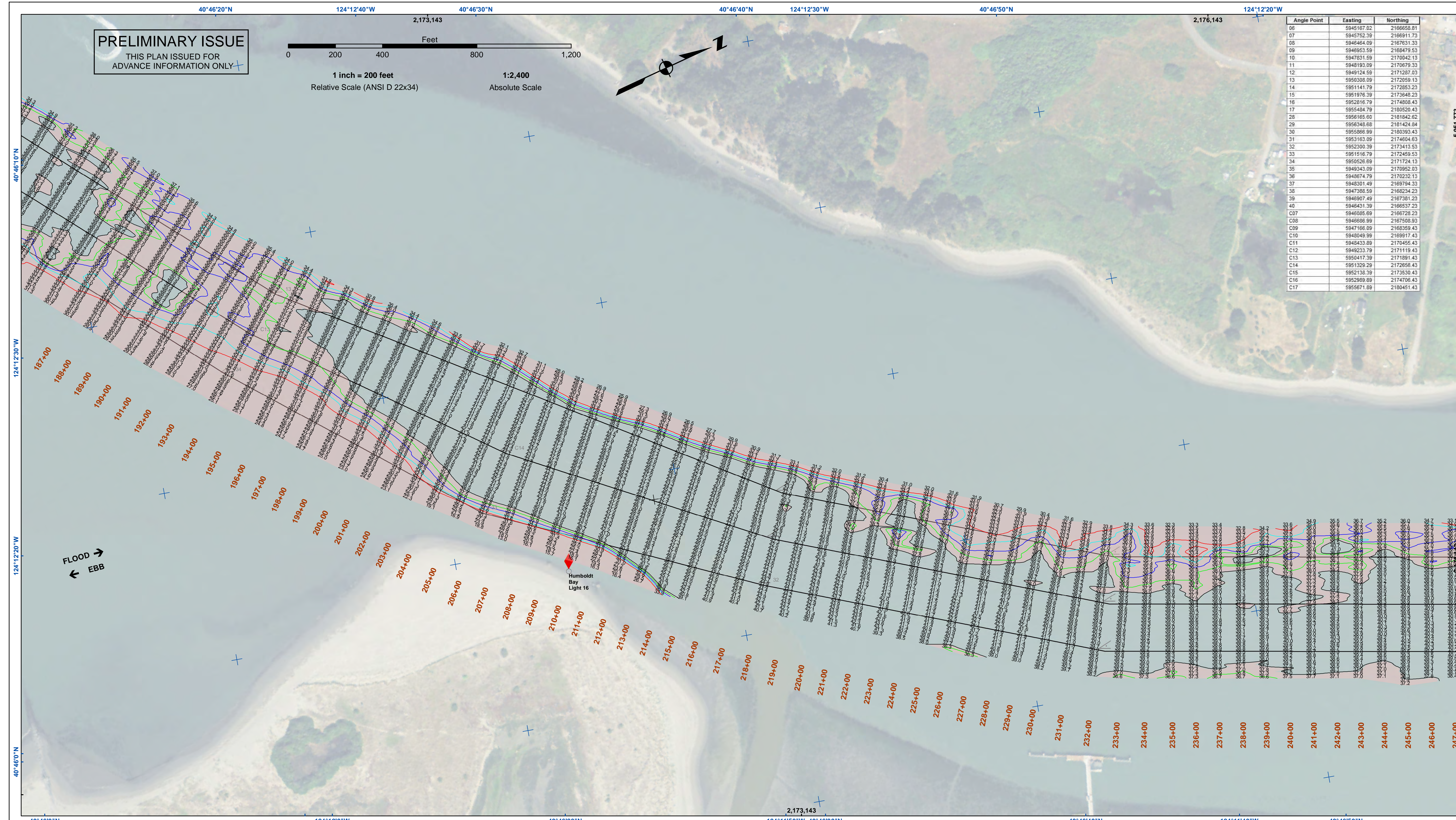


- Federal Navigation Channel
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding\*
- Contours**
- 38
- 37
- 36
- 35
- 34

**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.  
 SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTHS OF A 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 1 NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTHS ARE AS FOLLOWS:  
 BAR & ENTRANCE CHANNEL = 48 FEET  
 NORTH BAY, SAMOIA 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 GAUGES REFERENCED TO U.S.C. & G.S. BENCH MARKS AS FOLLOWS:  
 EUREKA & SOMOIA CHANNELS - B.M. NO. 4 (1906) ELEV. 33.61' M.L.L.W.  
 ENTRANCE & NORTH BAY CHANNELS - B.M. NO. 9 (1937) ELEV. 16.35' M.L.L.W.  
 FIELDS LANDING CHANNEL - B.M. NO. 5 (1925) ELEV. 8.52' M.L.L.W.

**Sheet Reference Number**  
 1 of 3

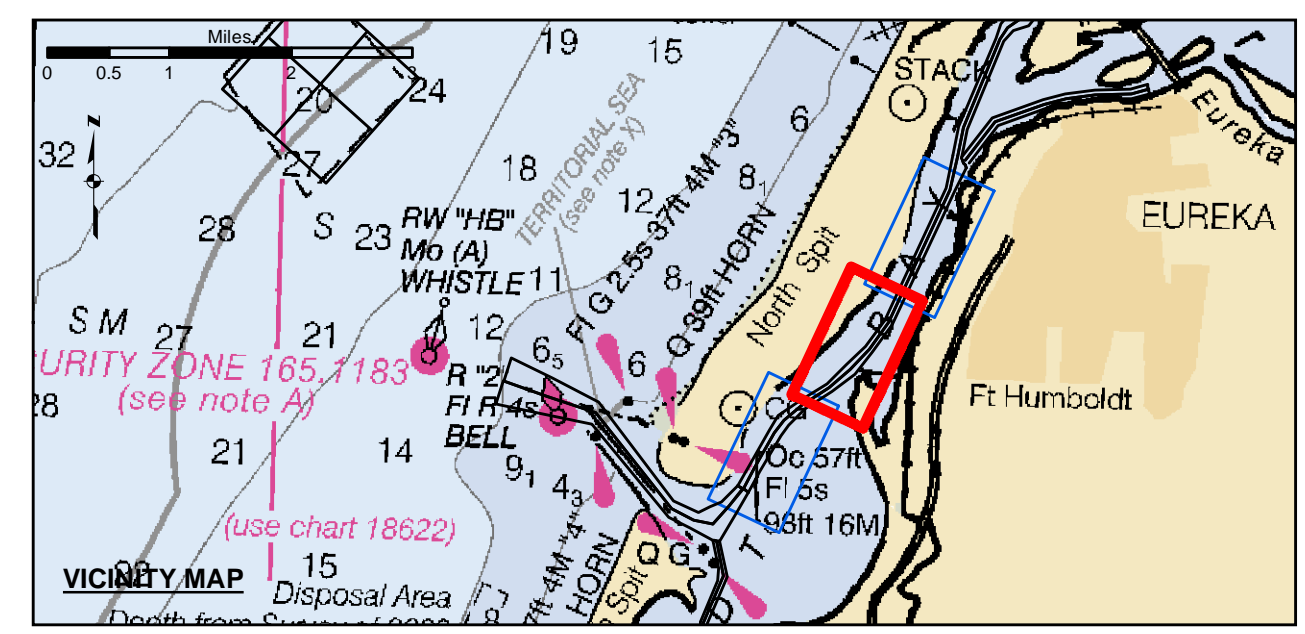


Angle Point	Easting	Northing
06	5945167.02	2166558.81
07	5945752.39	2166911.73
08	5946464.09	2167631.33
09	5946953.59	2168479.53
10	5947831.59	2170042.13
11	5948193.09	2170679.33
12	5949124.59	2171287.03
13	5950308.09	2172059.13
14	5951141.79	2172853.23
15	5951976.39	2173648.23
16	5952616.79	2174408.43
17	5954494.79	2180520.43
18	5956165.69	2181842.62
29	5956348.68	2181424.84
30	5955866.99	2180393.43
31	5953163.09	2174804.63
32	5952300.39	2173413.53
33	5951516.79	2172459.53
34	5950526.69	2171724.13
35	5949343.09	2170952.03
36	5948674.79	2170232.13
37	5948331.49	2169794.33
38	5947388.59	2168234.23
39	5946907.49	2167381.23
40	5946431.39	2166537.23
C07	5946085.69	2166728.23
C08	5946686.99	2167508.93
C09	5947186.09	2168359.43
C10	5948049.99	2169917.43
C11	5948433.89	2170455.43
C12	5949233.79	2171119.43
C13	5950417.39	2171891.43
C14	5951329.29	2172856.43
C15	5952138.39	2173630.43
C16	5952989.89	2174706.43
C17	5955671.89	2180451.43

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

**DISCLAIMER**  
 The United States Government furnishes this information as a service to the public. It is not intended to be used for any purpose other than the intended purpose. The user assumes all responsibility for the accuracy of the data for other than the intended purpose. The user assumes all responsibility for the accuracy of the data for other than the intended purpose. The user assumes all responsibility for the accuracy of the data for other than the intended purpose.

Prepared Under the Direction of	Chart Date
JOHN D. CUNNINGHAM	Sep 26, 2020
Surveyed By	Plotted By
PDT	PDT
Designed By	Checked By
PDT	PDT
Drawn by	
PDT	



Federal Navigation Channel	Beacon, General	<b>Contours</b>
Shoaling Area	Obstruction Point	-38
Placement Area	Navigation Buoy	-37
Anchorage Area	Navigation Buoy	-36
Wreck Area	Shoalest Sounding*	-35
Submerged Wreck		-34
Angle Point		

**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.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTHS OF A FOOT.  
 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

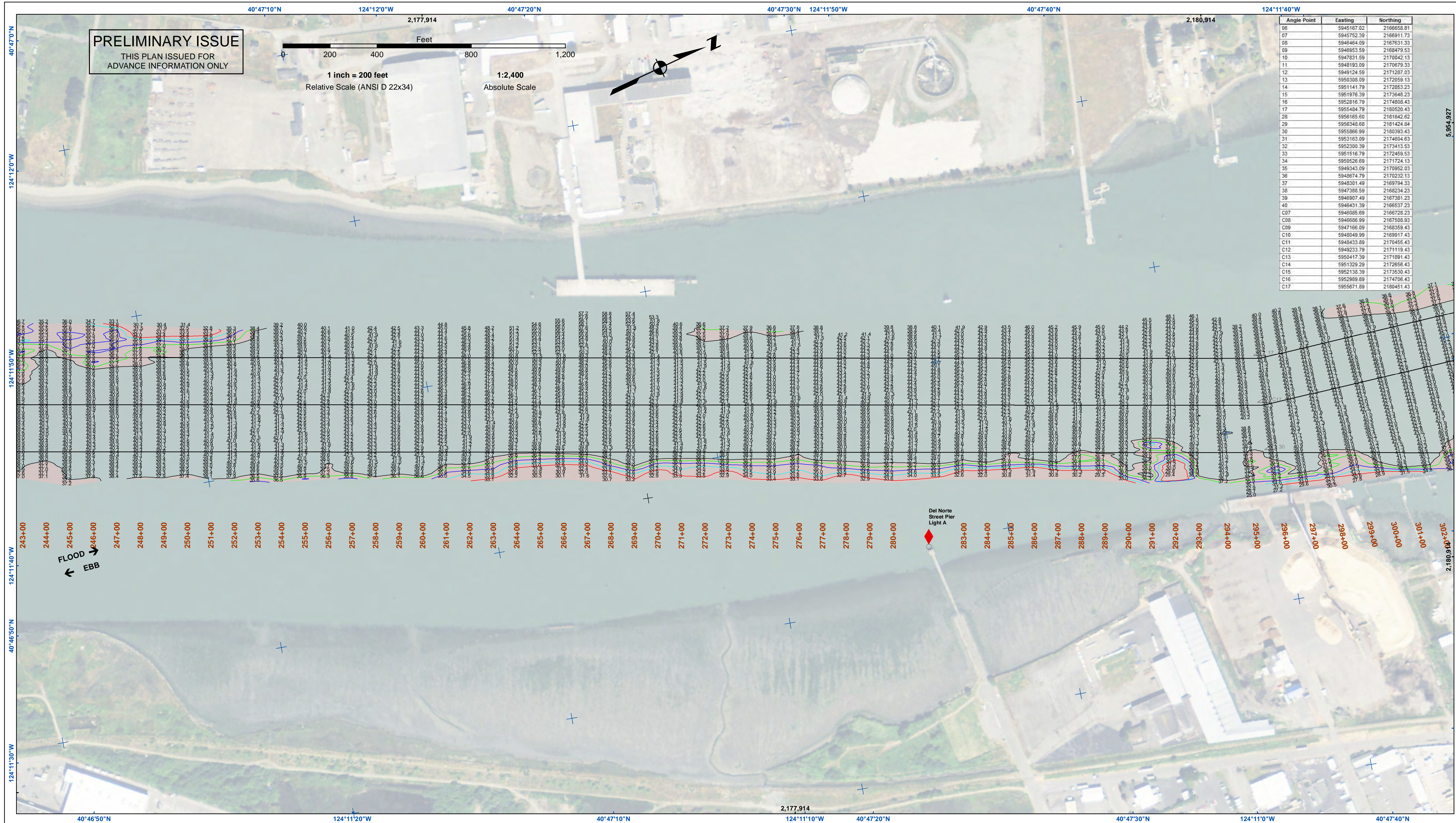
PLANE GRID AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE 1 NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTHS ARE AS FOLLOWS:  
 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

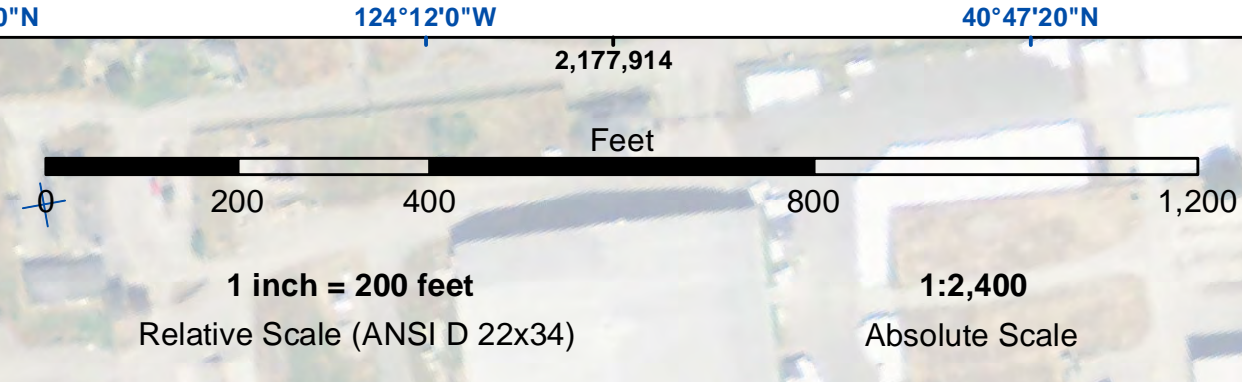
1:00 INDICATES THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.  
 SOUNDINGS ARE BASED ON TIDE GAUGES REFERENCED TO U.S.C. & G.S. BENCH MARKS AS FOLLOWS:  
 EUREKA & SOMMOA CHANNELS - B.M. NO. 4 (1906) ELEV. 33.61' M.L.L.W.  
 ENTRANCE & NORTH BAY CHANNELS - B.M. NO. 9 (1937) ELEV. 16.35' M.L.L.W.  
 FIELDS LANDING CHANNEL - B.M. NO. 5 (1925) ELEV. 8.52' M.L.L.W.

HUMBOLDT COUNTY  
 HUMBOLDT BAY  
 NORTH BAY CHANNEL  
 CONDITION SURVEY  
 12 SEPTEMBER 2020

**Sheet Reference Number**  
 2 of 3



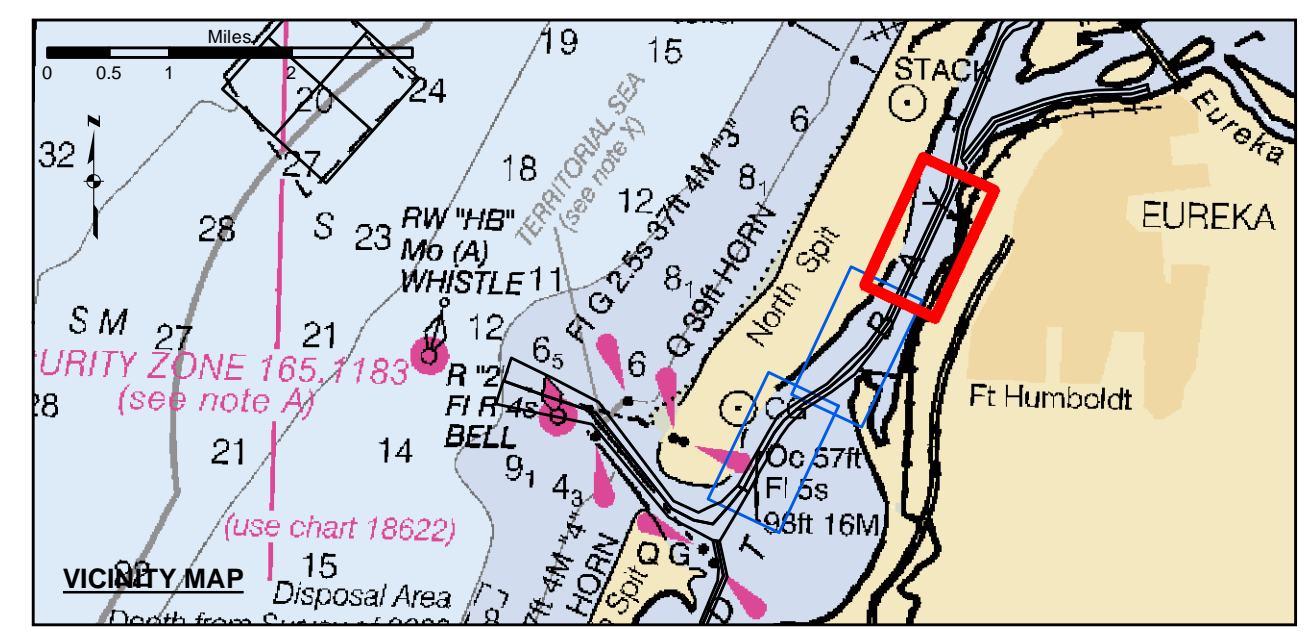
**PRELIMINARY ISSUE**  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY



Angle Point	Easting	Northing
06	5945167.02	2166558.81
07	5945752.39	2166311.73
08	5946464.09	2167631.33
09	5946953.59	2168479.53
10	5947831.59	2170042.13
11	5948193.09	2170679.33
12	5949124.59	2171287.03
13	5950308.09	2172059.13
14	5951141.79	2172853.23
15	5951976.39	2173648.23
16	5952616.79	2174408.43
17	5953404.79	2175209.43
18	5954185.60	2176042.62
19	5954948.68	2176904.84
20	5955686.99	2177803.43
21	5956413.09	2178732.13
22	5957130.39	2179691.33
23	5957839.59	2180680.43
24	5958541.79	2181699.43
25	5959237.79	2182748.43
26	5960028.09	2183827.43
27	5960813.09	2184936.43
28	5961593.09	2186075.43
29	5962368.09	2187244.43
30	5963138.09	2188443.43
31	5963903.09	2189672.43
32	5964663.09	2190931.43
33	5965418.09	2192220.43
34	5966168.09	2193539.43
35	5966913.09	2194888.43
36	5967653.09	2196267.43
37	5968388.09	2197676.43
38	5969118.09	2199115.43
39	5969843.09	2200584.43
40	5970563.09	2202083.43
41	5971278.09	2203612.43
42	5971988.09	2205171.43
43	5972693.09	2206760.43
44	5973393.09	2208379.43
45	5974088.09	2210028.43
46	5974778.09	2211707.43
47	5975463.09	2213416.43
48	5976143.09	2215155.43
49	5976818.09	2216924.43
50	5977488.09	2218723.43
51	5978153.09	2220552.43
52	5978813.09	2222411.43
53	5979468.09	2224300.43
54	5980118.09	2226219.43
55	5980763.09	2228168.43
56	5981403.09	2230147.43
57	5982038.09	2232156.43
58	5982668.09	2234195.43
59	5983293.09	2236264.43
60	5983913.09	2238363.43
61	5984528.09	2240492.43
62	5985138.09	2242641.43
63	5985743.09	2244810.43
64	5986343.09	2246999.43
65	5986938.09	2249208.43
66	5987528.09	2251437.43
67	5988113.09	2253686.43
68	5988693.09	2255955.43
69	5989268.09	2258244.43
70	5989838.09	2260553.43
71	5990403.09	2262882.43
72	5990963.09	2265231.43
73	5991518.09	2267590.43
74	5992068.09	2269969.43
75	5992613.09	2272368.43
76	5993153.09	2274787.43
77	5993688.09	2277226.43
78	5994218.09	2279685.43
79	5994743.09	2282164.43
80	5995263.09	2284663.43
81	5995778.09	2287182.43
82	5996288.09	2289721.43
83	5996793.09	2292280.43
84	5997293.09	2294859.43
85	5997788.09	2297458.43
86	5998278.09	2300077.43
87	5998763.09	2302716.43
88	5999243.09	2305375.43
89	5999718.09	2308054.43
90	6000188.09	2310753.43
91	6000653.09	2313472.43
92	6001113.09	2316211.43
93	6001568.09	2318970.43
94	6002018.09	2321749.43
95	6002463.09	2324548.43
96	6002903.09	2327367.43
97	6003338.09	2330206.43
98	6003768.09	2333065.43
99	6004193.09	2335944.43
100	6004613.09	2338843.43

FLOOD →  
← EBB

Del Norte  
Street Pier  
Light A



- 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**
- 38
- 37
- 36
- 35
- 34

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

PROJECT DEPTHS ARE AS FOLLOWS:  
BAR & ENTRANCE CHANNEL = 48 FEET  
NORTH BAY, SAMOIA 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 GAUGES REFERENCED TO U.S.C. & G.S. BENCH MARKS AS FOLLOWS:  
EUREKA & SOMOIA CHANNELS - B.M. NO. 4 (1906) ELEV. 33.61' M.L.L.W.  
ENTRANCE & NORTH BAY CHANNELS - B.M. NO. 9 (1937) ELEV. 16.35' M.L.L.W.  
FIELDS LANDING CHANNEL - B.M. NO. 5 (1925) ELEV. 8.52' M.L.L.W.

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

**DISCLAIMER**  
The United States Government furnishes this information as a service to the public and does not warrant, express or implied, the accuracy, completeness, or reliability of the information. The user of this information is responsible for its use and for any liability whatsoever to any person by reason of any use made thereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring this disclaimer.

Prepared Under the Direction of <b>JOHN D. CUNNINGHAM</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Sep 28, 2020
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Checked by: PDT
Approved: Chief, Construction Branch	Drawn by: PDT

HUMBOLDT COUNTY  
**HUMBOLDT BAY  
NORTH BAY CHANNEL  
CONDITION SURVEY  
12 SEPTEMBER 2020**

**Sheet  
Reference  
Number  
3 of 3**