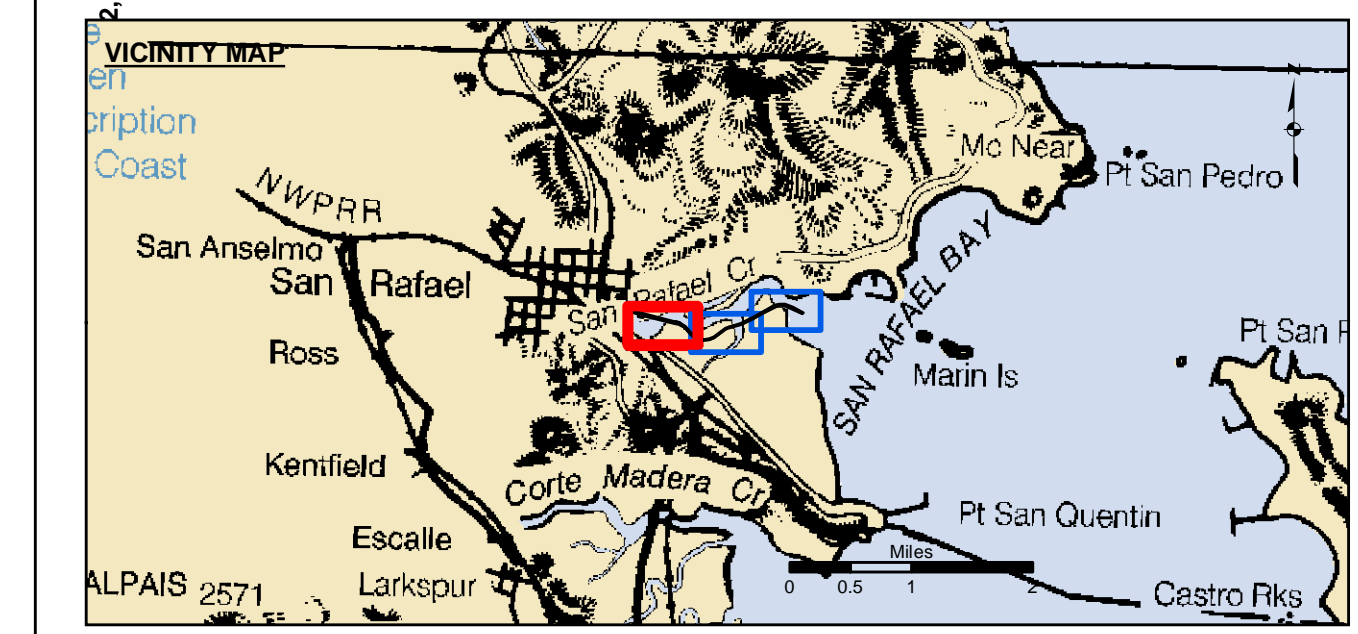


PRELIMINARY ISSUE
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NAD 83 CENTERLINE ANGLE POINTS		
Δ PT	X	Y
C1	5987089.37	2181692.15
C2	5986334.07	2182035.55
C3	5986088.27	2182054.45
C4	5985885.57	2181993.85
C5	5985380.77	2181729.75
C6	5984935.97	2181458.25
C7	5984421.07	2181213.45
C8	5983862.47	2181058.95
C9	5983735.07	2181010.85
C10	5983242.97	2180634.65
C11	5983023.37	2180542.35
C12	5982759.17	2180513.25
C13	5982475.57	2180605.75
C14	5982265.37	2180760.35
C15	5981973.07	2181089.55
C16	5981896.67	2181147.35
C17	5981723.17	2181235.75
C18	5981476.77	2181276.25
C19	5980172.77	2181612.05
C20	5979679.07	2181750.05

NAD 83 CHANNEL ANGLE POINTS		
Δ PT	X	Y
1	5987101.87	2181719.45
2	5986637.57	2181930.55
3	5986341.67	2182065.05
4	5986084.97	2182084.85
5	5985874.27	2182021.75
6	5985365.97	2181755.85
7	5984921.77	2181484.65
8	5984410.57	2181241.65
9	5983853.17	2181087.55
10	5983720.27	2181037.35
11	5983227.77	2180660.75
12	5983015.77	2180571.65
13	5982762.27	2180543.75
14	5982489.47	2180632.75
15	5982285.67	2180782.65
16	5981993.57	2181111.65
17	5981912.57	2181172.85
18	5981732.57	2181264.65
19	5981482.97	2181305.55
20	5980180.57	2181641.55
21	5979689.27	2181778.35
22	5979668.87	2181721.75

NAD 83 CHANNEL ANGLE POINTS		
Δ PT	X	Y
23	5979972.37	2181637.25
24	5979945.57	2181540.95
25	5980138.27	2181487.25
26	5980165.07	2181583.65
27	5981470.57	2181246.85
28	5981713.67	2181206.95
29	5981880.67	2181121.75
30	5981952.57	2181067.35
31	5982244.97	2180738.05
32	5982461.67	2180578.65
33	5982755.97	2180482.65
34	5983030.97	2180512.95
35	5983258.17	2180608.45
36	5983749.77	2180984.35
37	5983871.87	2181030.45
38	5984431.57	2181185.15
39	5984950.27	2181431.85
40	5985395.57	2181703.65
41	5985896.97	2181965.95
42	5986091.47	2182024.15
43	5986326.57	2182006.05
44	5987076.97	2181664.85



Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	
Placement Area	Navigation Buoy	-6
Anchorage Area	Navigation Buoy	-5
Wreck Area	Shoalest Sounding*	-4
Submerged Wreck		-3
Angle Point		-2

NOTES:
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SOUNDINGS FOR ARE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST FOOT AND TENTH OF A FOOT.

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HORIZONTAL CONTROL: DESIGNATION, SOURCE, XYZ COAST GUARD D-BEACON

VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY B.M. TIDAL 17 (1951), USCGS DISK, 9.73 MLLW HARBOR ST. PUMPHOUSE, EAST FRANCISCO BLVD. B.M. L 551 (1956), USCGS DISK, 15.61 MLLW SAN RAFAEL SANITARY DIST. PUMPHOUSE, PT. SAN PEDRO RD.

TIDE GAGE LOCATION: SAN RAFAEL YACHT HARBOR & MARIN YACHT HARBOR
STA. 119+00 TO 150+00 ... Marin Yacht Harbor
STA. 150+00 TO 200+00 ... San Rafael Yacht Harbor
FLOOD ⇒ SLACK ⇒ EBB TIDE SURVEY 5.2 Ft ⇒ 6.4 Ft.

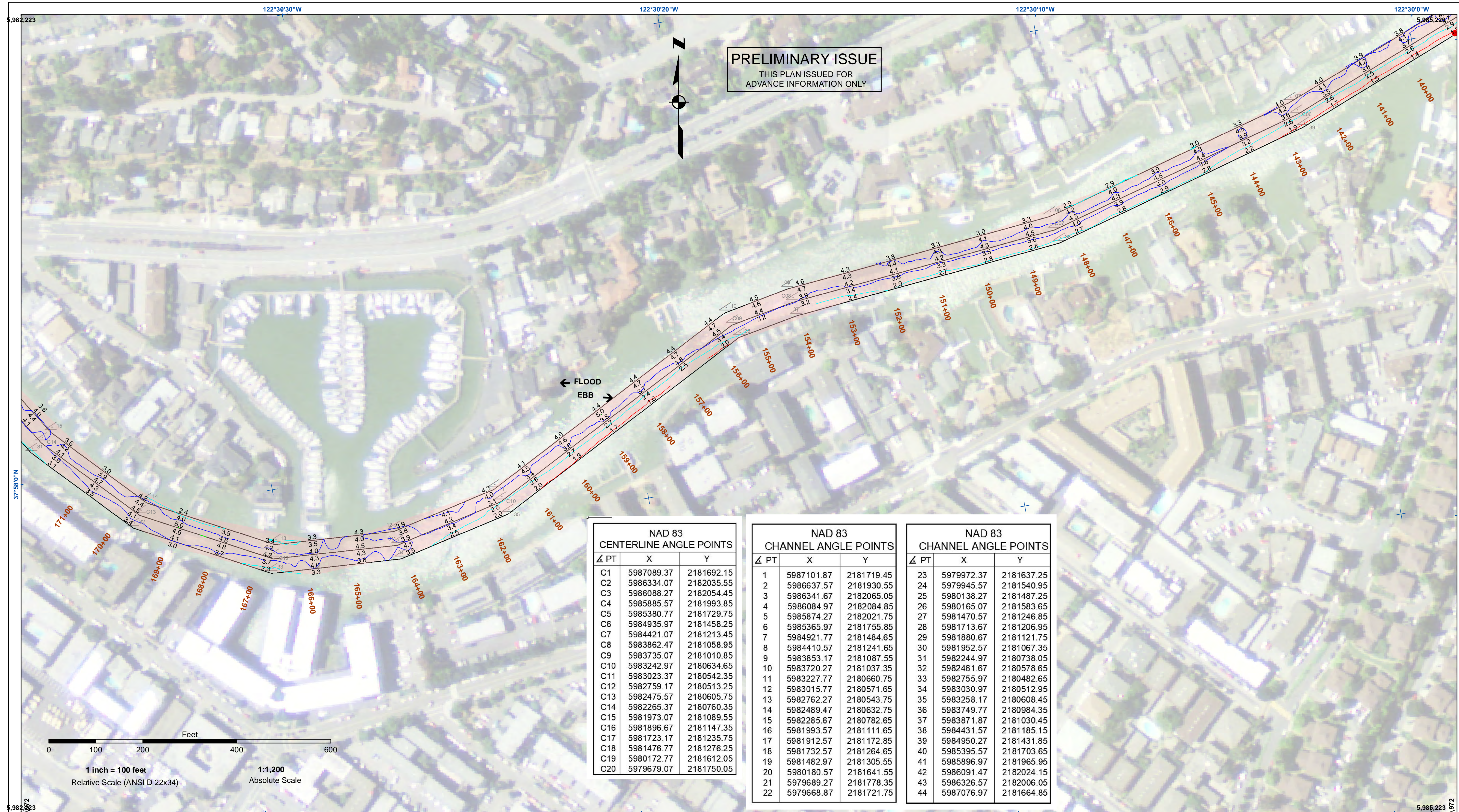
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San Francisco District
450 Market Street
San Francisco, CA 94102

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Chart Date:	Apr 27, 2022
Designed by:	
Drawn by:	PDT
Surveyed By:	KEVIN P. ARNETT
Plotted By:	PDT
Checked By:	PDT

CALIFORNIA
MARIN COUNTY
SAN RAFAEL CREEK
CONDITION SURVEY
12-13 APRIL 2022

Sheet Reference Number
1 of 3

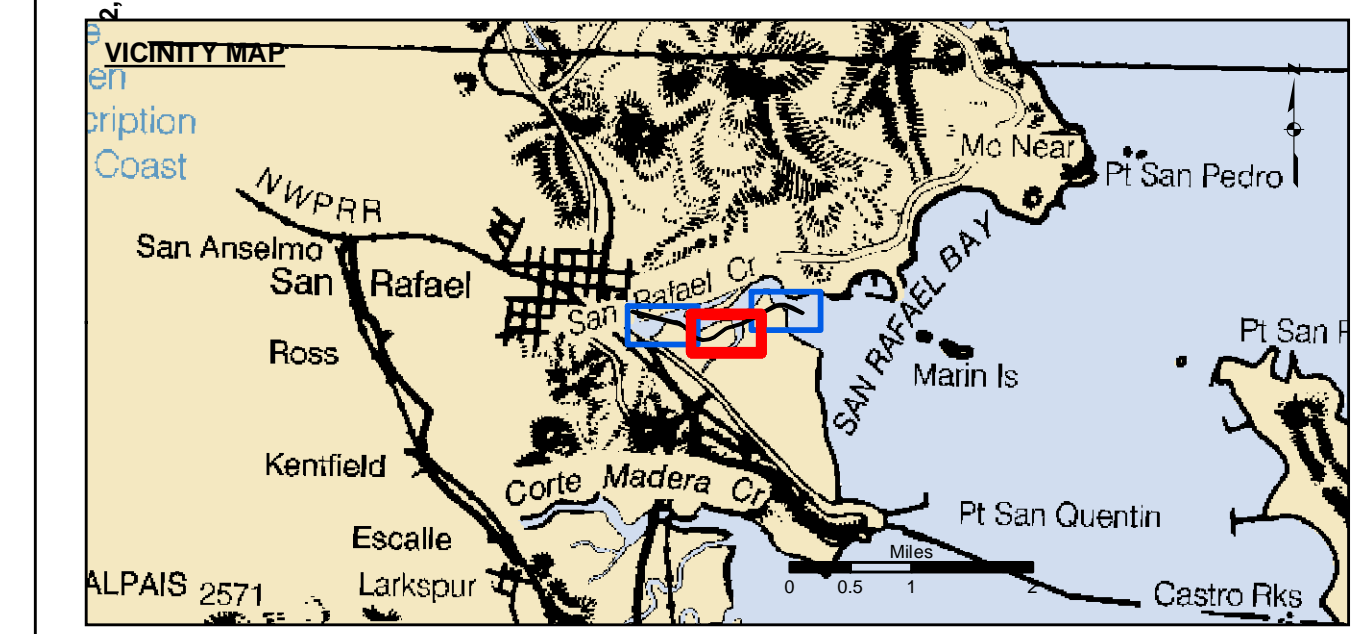


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NAD 83 CENTERLINE ANGLE POINTS		
△ PT	X	Y
C1	5987089.37	2181692.15
C2	5986334.07	2182035.55
C3	5986088.27	2182054.45
C4	5985885.57	2181993.85
C5	5985380.77	2181729.75
C6	5984935.97	2181458.25
C7	5984421.07	2181213.45
C8	5983862.47	2181058.95
C9	5983735.07	2181010.85
C10	5983242.97	2180634.65
C11	5983023.37	2180542.35
C12	5982759.17	2180513.25
C13	5982475.57	2180605.75
C14	5982265.37	2180760.35
C15	5981973.07	2181089.55
C16	5981896.67	2181147.35
C17	5981723.17	2181235.75
C18	5981476.77	2181276.25
C19	5980172.77	2181612.05
C20	5979679.07	2181750.05

NAD 83 CHANNEL ANGLE POINTS		
△ PT	X	Y
1	5987101.87	2181719.45
2	5986637.57	2181930.55
3	5986341.67	2182065.05
4	5986084.97	2182084.85
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6	5985365.97	2181755.85
7	5984921.77	2181484.65
8	5984410.57	2181241.65
9	5983853.17	2181087.55
10	5983720.27	2181037.35
11	5983227.77	2180660.75
12	5983015.77	2180571.65
13	5982762.27	2180543.75
14	5982489.47	2180632.75
15	5982285.67	2180782.65
16	5981993.57	2181111.65
17	5981912.57	2181172.85
18	5981732.57	2181264.65
19	5981482.97	2181305.55
20	5980180.57	2181641.55
21	5979689.27	2181778.35
22	5979668.87	2181721.75

NAD 83 CHANNEL ANGLE POINTS		
△ PT	X	Y
23	5979972.37	2181637.25
24	5979945.57	2181540.95
25	5980138.27	2181487.25
26	5980165.07	2181583.65
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31	5982244.97	2180738.05
32	5982461.67	2180578.65
33	5982755.97	2180482.65
34	5983030.97	2180512.95
35	5983258.17	2180608.45
36	5983749.77	2180984.35
37	5983871.87	2181030.45
38	5984431.57	2181185.15
39	5984950.27	2181431.85
40	5985395.57	2181703.65
41	5985896.97	2181965.95
42	5986091.47	2182024.15
43	5986326.57	2182006.05
44	5987076.97	2181664.85



Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	
Placement Area	Navigation Buoy	-6
Anchorage Area	Navigation Buoy	-5
Wreck Area	Shoalest Sounding*	-4
Submerged Wreck		-3
Angle Point		-2

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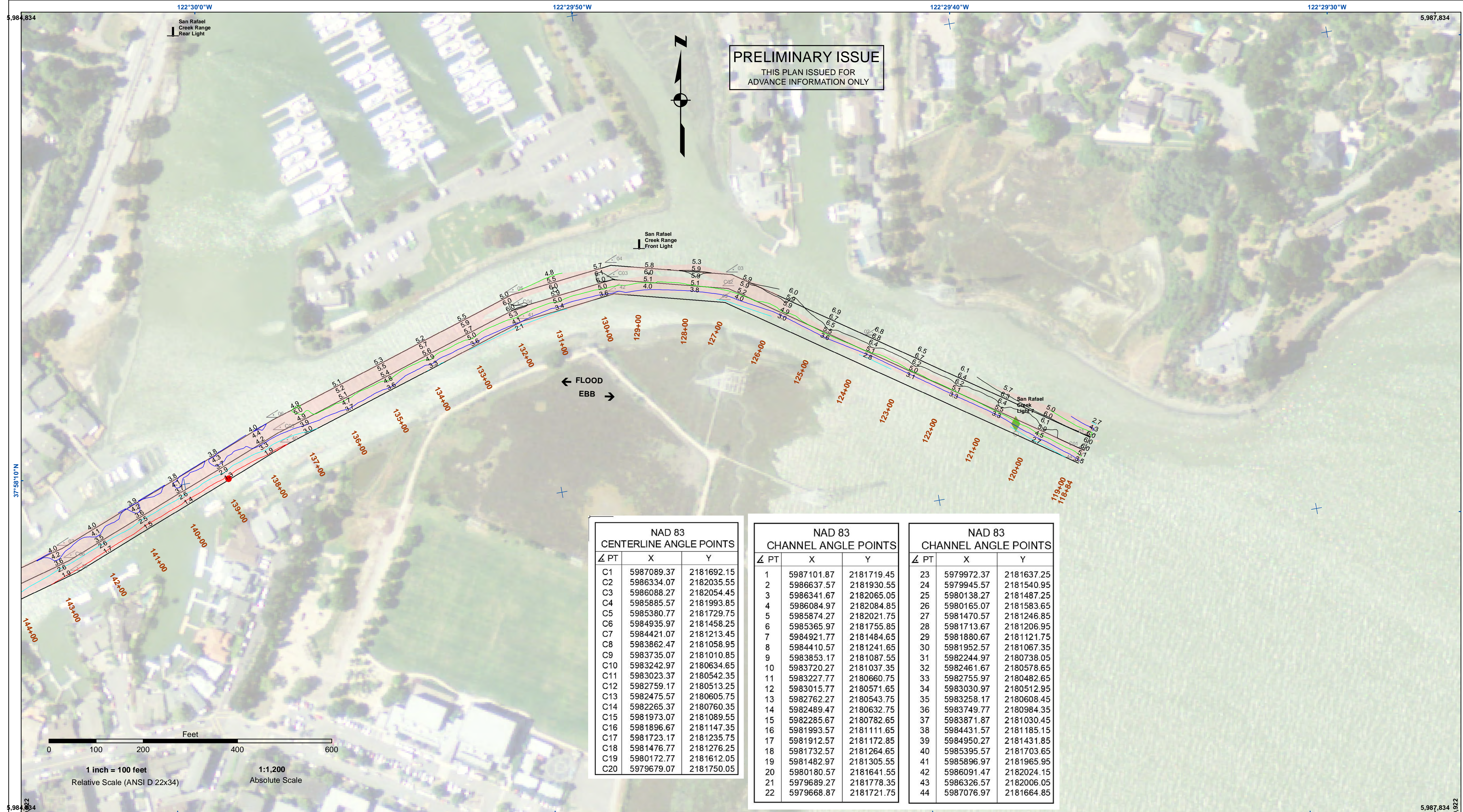
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Prepared Under the Direction of:	Chart Date:
KEVIN P. ARNETT	Apr 27, 2022
LT Colonel, C.E., District Engineer	Designed by:
PDT	
Submitted:	Plotted by:
Hydro Survey Team Leader	
Recommended:	Checked by:
Chief, Hydro Survey Section	PDT
Approved:	Drawn by:
Chief, Construction Branch	PDT

CALIFORNIA
MARIN COUNTY
SAN RAFAEL CREEK
CONDITION SURVEY
12-13 APRIL 2022

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Reference
Number
2 of 3

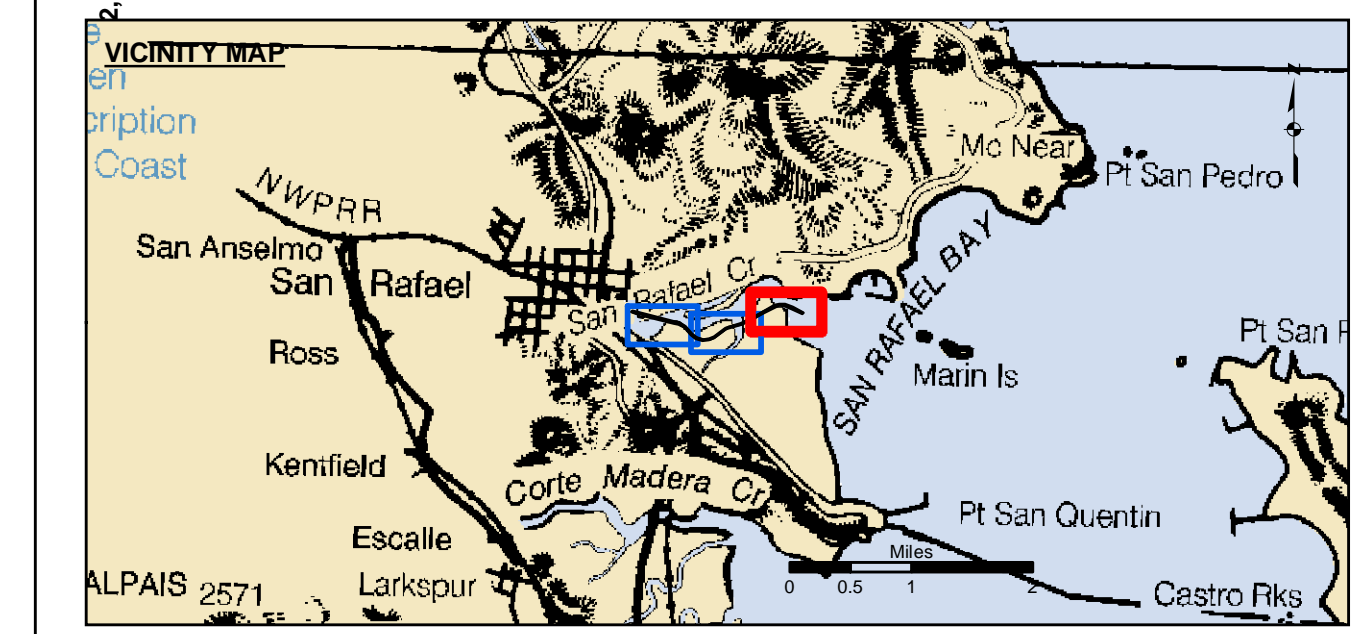
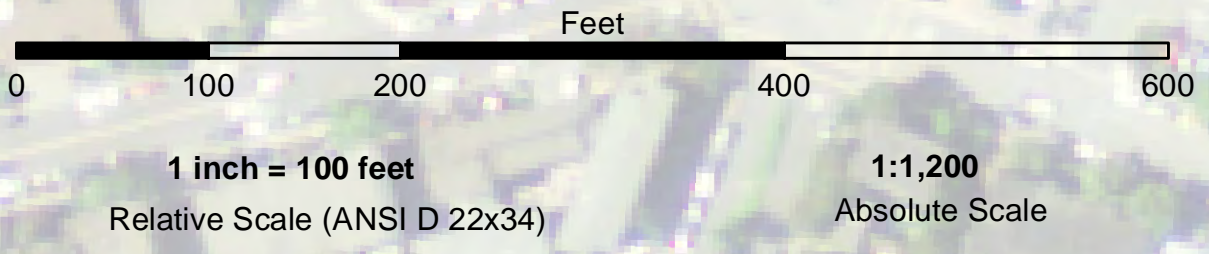


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Shoaling Area	Obstruction Point	
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KEVIN P. ARNETT	Apr 27, 2022
LT Colonel, C.E., District Engineer	Designed by:
Submittal: PDT	
Hydro Survey Team Leader	Drawn by:
Recommended:	PDT
Chief, Hydro Survey Section	Checked by:
Approved:	PDT
Chief, Construction Branch	

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3 of 3