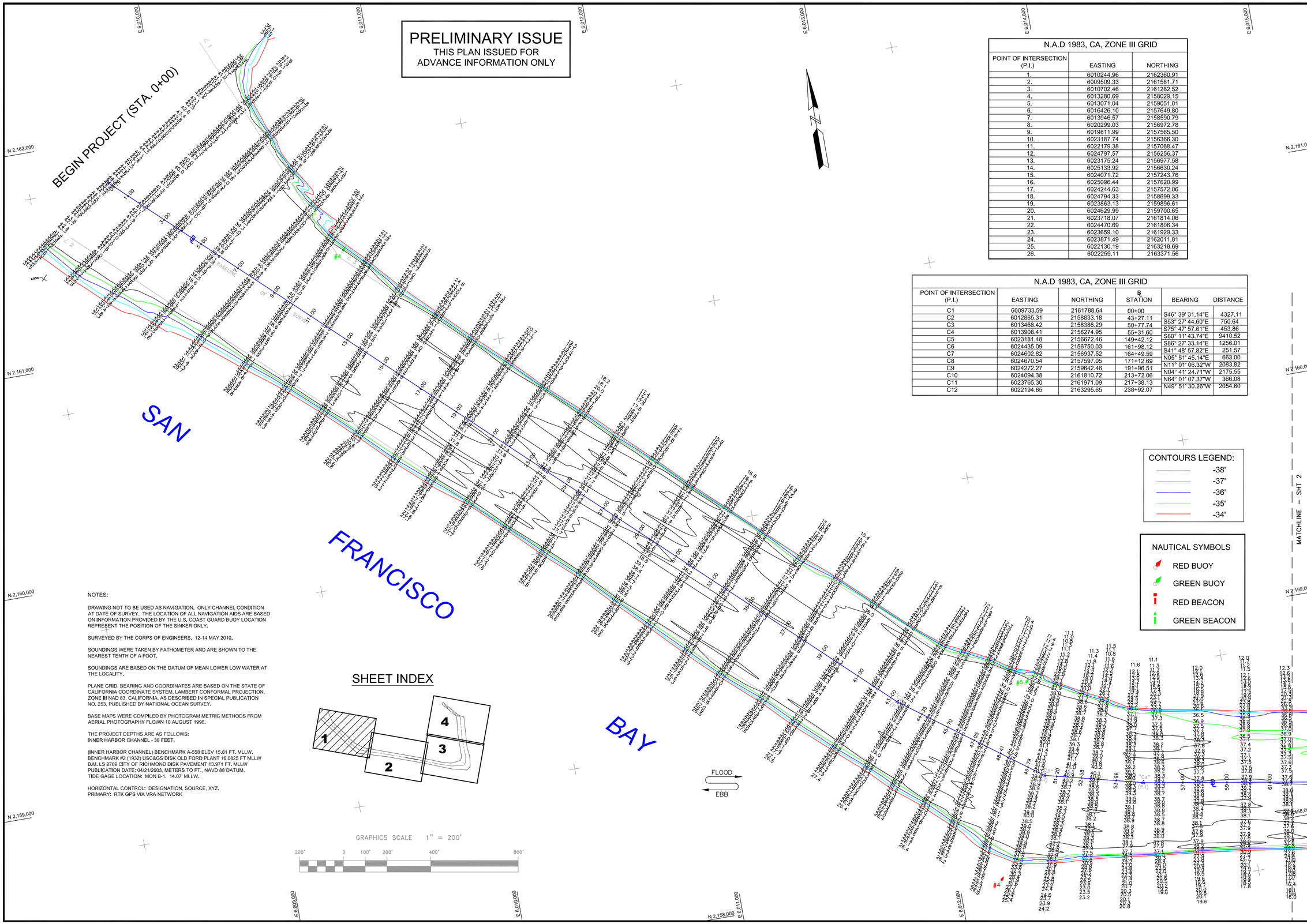
PRELIMINARY ISSUE

THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



N.A.D 1983, CA, ZONE III GRID		
POINT OF INTERSECTION (P.I.)	EASTING	NORTHING
1.	6010244.96	2162360.91
2.	6009509.33	2161581.71
3.	6010702.46	2161282.52
4.	6013280.69	2158029.15
5.	6013071.04	2159051.01
6.	6016426.10	2157649.80
7.	6013946.57	2158590.79
8.	6020299.03	2156972.78
9.	6019811.99	2157565.50
10.	6023187.74	2156366.30
11.	6022179.38	2157068.47
12.	6024797.57	2156256.37
13.	6023175.24	2156977.58
14.	6025133.92	2156630.24
15.	6024071.72	2157243.76
16.	6025096.44	2157620.99
17.	6024244.63	2157572.06
18.	6024794.33	2158699.33
19.	6023863.13	2159896.61
20.	6024629.99	2159700.65
21.	6023718.07	2161814.06
22.	6024470.69	2161806.34
23.	6023659.10	2161929.33
24.	6023871.49	2162011.81
25.	6022130.19	2163218.69
26.	6022259.11	2163371.56

N.A.D 1983, CA, ZONE III GRID					
POINT OF INTERSECTION (P.I.)	EASTING	NORTHING	℄ STATION	BEARING	DISTANCE
C1	6009733.59	2161788.64	00+00		
				S46° 39' 31.14"E	4327.11
C2	6012865.31	2158833.18	43+27.11		
				S53° 27' 44.60"E	750.64
C3	6013468.42	2158386.29	50+77.74		
				S75° 47' 57.61"E	453.86
C4	6013908.41	2158274.95	55+31.60		
				S80° 11' 43.74"E	9410.52
C5	6023181.48	2156672.46	149+42.12		
				S86° 27' 33.14"E	1256.01
C6	6024435.09	2156750.03	161+98.12		
				S41° 48' 57.82"E	251.57
C7	6024602.82	2156937.52	164+49.59		
				N05° 51' 45.14"E	663.00
C8	6024670.54	2157597.05	171+12.69		
				N11° 01' 06.32"W	2083.82
C9	6024272.27	2159642.46	191+96.51		
				N04° 41' 24.71"W	2175.55
C10	6024094.38	2161810.72	213+72.06		
				N64° 01' 07.37"W	366.08
C11	6023765.30	2161971.09	217+38.13		
				N49° 51' 30.26"W	2054.60
C12	6022194.65	2163295.65	238+92.07		

NOTES:

DRAWING 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. 12-14 MAY 2010.

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

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III NAD 83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.

BASE MAPS WERE COMPILED BY PHOTOGRAM METRIC METHODS FROM AERIAL PHOTOGRAPHY FLOWN 10 AUGUST 1996.

THE PROJECT DEPTHS ARE AS FOLLOWS:
INNER HARBOR CHANNEL - 38 FEET.

(INNER HARBOR CHANNEL) BENCHMARK A-558 ELEV 15.81 FT. MLLW.
BENCHMARK #2 (1932) USC&GS DISK OLD FORD PLANT 16.0825 FT MLLW
B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW
PUBLICATION DATE: 04/21/2003. METERS TO FT., NAVD 88 DATUM.
TIDE GAGE LOCATION: MON B-1. 14.07' MLLW.

HORIZONTAL CONTROL: DESIGNATION, SOURCE, XYZ.
PRIMARY: RTK GPS VIA VRA NETWORK

US Army Corps of Engineers
San Francisco District
1455 Market Street
San Francisco, CA 94103

Mark	Description	Date	Appr.

DESIGNED BY: PDT	CHECKED BY: PDT	DRAWN BY: PDT
DATE: 14JUN2010	SHEET NO. 1 of 4	DRAWING NO. 9 / XXX

SUBMITTED: PDT, Hydro Survey Team Leader
APPROVAL RECOMMENDED: STEPHEN P. KILMON, P.S.M., Chief, Survey Section
APPROVED: Chief, Construction Branch

PREPARED UNDER THE DIRECTION OF
LAURENCE M. FARRELL
LT. COLONEL, C.E., DISTRICT ENGINEER

CONTRA COSTA COUNTY CALIFORNIA

RICHMOND INNER HARBOR CHANNEL
CONDITION SURVEY
12-14 MAY 2010

Sheet reference number
G1