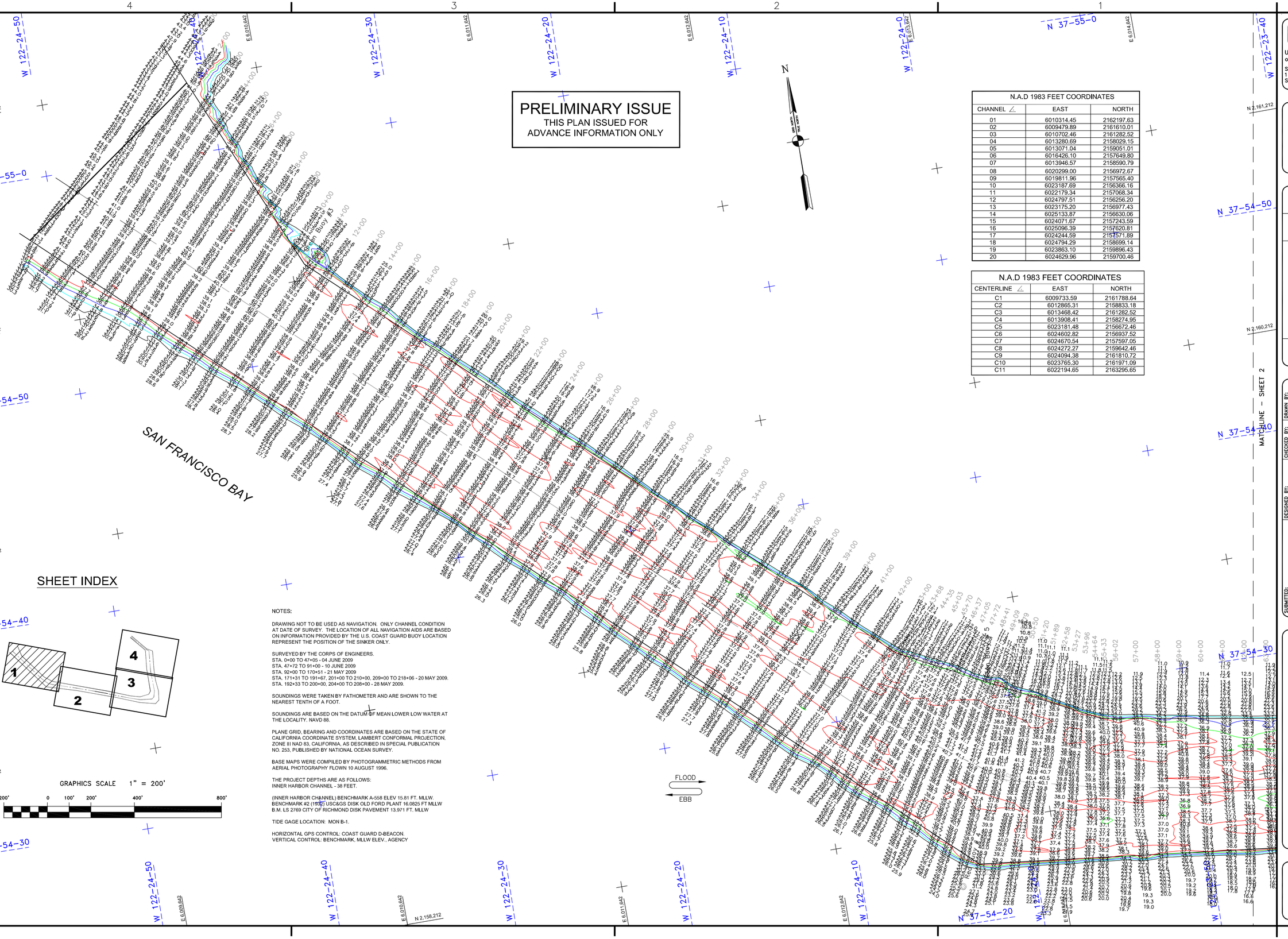
PRELIMINARY ISSUE

THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



SHEET INDEX

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.
STA. 0+00 TO 47+05 - 04 JUNE 2009
STA. 47+72 TO 91+00 - 10 JUNE 2009
STA. 92+00 TO 170+51 - 21 MAY 2009
STA. 171+31 TO 191+67, 201+00 TO 210+00, 209+00 TO 218+06 - 20 MAY 2009.
STA. 192+33 TO 200+00, 204+00 TO 208+00 - 28 MAY 2009.

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. NAVD 88.

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 PHOTOGRAMMETRIC 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 (1937) USC&GS DISK OLD FORD PLANT 16.0825 FT MLLW
B.M. LS 2769 CITY OF RICHMOND DISK PAVEMENT 13.971 FT. MLLW

TIDE GAGE LOCATION: MON B-1.

HORIZONTAL GPS CONTROL: COAST GUARD D-BEACON.
VERTICAL CONTROL: BENCHMARK, MLLW ELEV., AGENCY

N.A.D 1983 FEET COORDINATES		
CHANNEL ∠	EAST	NORTH
01	6010314.45	2162197.63
02	6009479.89	2161610.01
03	6010702.46	2161282.52
04	6013280.69	2158029.15
05	6013071.04	2159051.01
06	6016426.10	2157649.80
07	6013946.57	2158590.79
08	6020299.00	2156972.67
09	6019811.96	2157565.40
10	6023187.69	2156366.16
11	6022179.34	2157068.34
12	6024797.51	2156256.20
13	6023175.20	2156977.43
14	6025133.87	2156630.06
15	6024071.67	2157243.59
16	6025096.39	2157620.81
17	6024244.59	2157571.89
18	6024794.29	2158699.14
19	6023863.10	2159896.43
20	6024629.96	2159700.46

N.A.D 1983 FEET COORDINATES		
CENTERLINE ∠	EAST	NORTH
C1	6009733.59	2161788.64
C2	6012865.31	2158833.18
C3	6013468.42	2161282.52
C4	6013908.41	2158274.95
C5	6023181.48	2156672.46
C6	6024602.82	2156937.52
C7	6024670.54	2157597.05
C8	6024272.27	2159642.46
C9	6024094.38	2161810.72
C10	6023765.30	2161971.09
C11	6022194.65	2163295.65

MATCHLINE - SHEET 2

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

Mark	Description	Date	Appr.

DESIGNED BY:	CHECKED BY:	DRAWN BY:
	PC	EWC

DATE:	SHEET NO.	DRAWING NO.
06/12/2009	1 OF 4	9 2 362

SUBMITTED:
Hydro. Survey Team Leader
APPROVAL RECOMMENDED:
Chief, Technical Support Section
APPROVED:
Chief, Construction Branch

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

ALAMEDA COUNTY CALIFORNIA

RICHMOND INNER HARBOR
PREDREDGE SURVEY
20, 21 & 28 MAY
05 & 10 JUNE 2009

Sheet reference number
C1