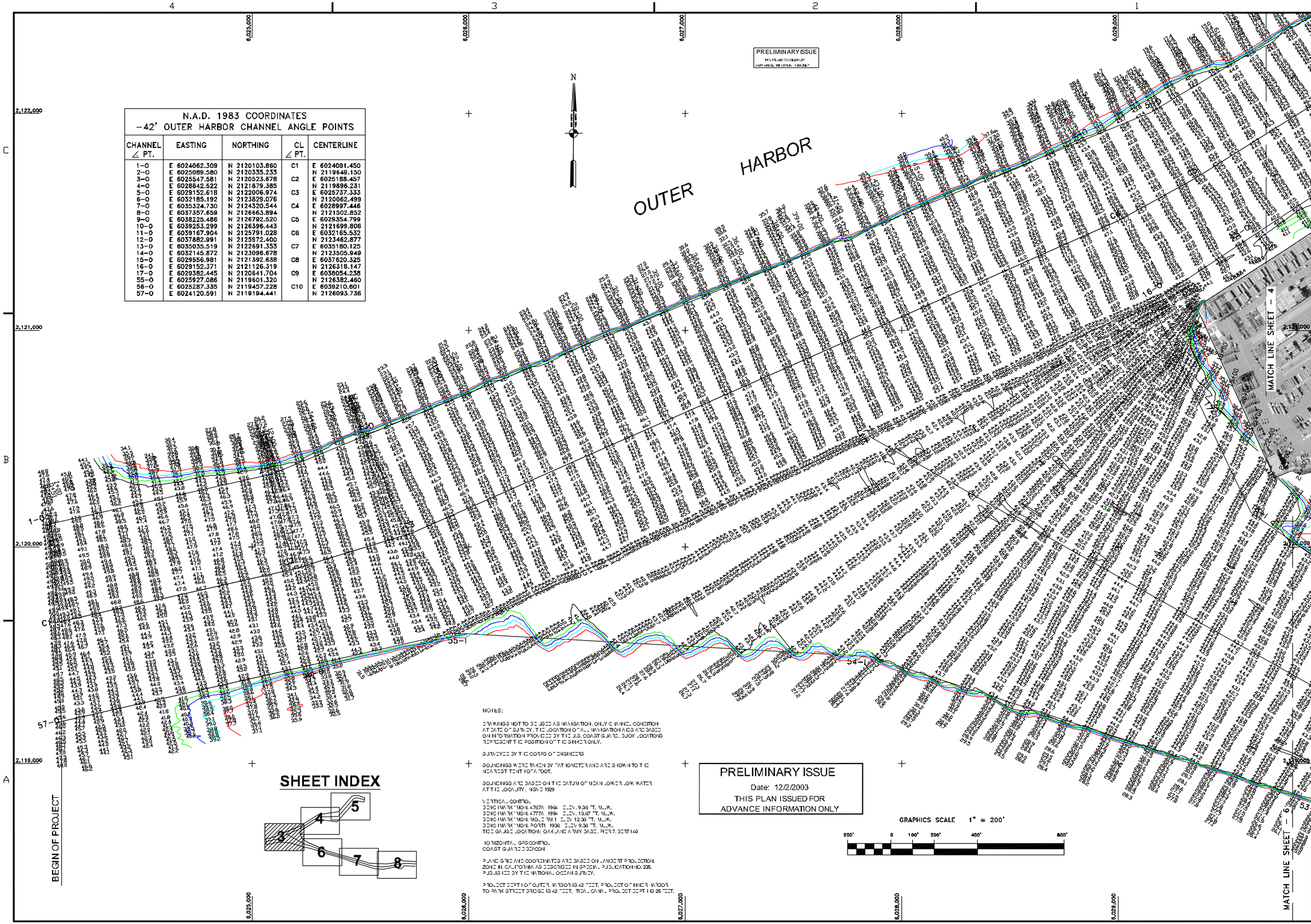
PRELIMINARY ISSUE
THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY

N.A.D. 1983 COORDINATES
-42' OUTER HARBOR CHANNEL ANGLE POINTS

CHANNEL ∠ PT.	EASTING	NORTHING	CL ∠ PT.	CENTERLINE
1-0	E 6024062.309	N 2120103.860	C1	E 6024091.450
2-0	E 6025089.580	N 2120335.233		N 2119649.150
3-0	E 6025547.581	N 2120523.678	C2	E 6025188.457
4-0	E 6028842.522	N 2121879.385		N 2119896.231
5-0	E 6029152.618	N 2122006.974	C3	E 6025737.333
6-0	E 6032185.192	N 2123829.076		N 2120062.499
7-0	E 6035324.730	N 2124320.544	C4	E 6028997.446
8-0	E 6037357.659	N 2126663.894		N 2121502.852
9-0	E 6038225.486	N 2126792.520	C5	E 6029354.799
10-0	E 6039253.299	N 2126396.443		N 2121699.806
11-0	E 6039167.904	N 2125791.028	C6	E 6032165.532
12-0	E 6037882.991	N 2125972.400		N 2123462.877
13-0	E 6035035.519	N 2122691.353	C7	E 6035180.125
14-0	E 6032145.872	N 2123096.678		N 2123505.949
15-0	E 6029556.981	N 2121392.638	C8	E 6037620.325
16-0	E 6029152.371	N 2121126.319		N 2126318.147
17-0	E 6029382.445	N 2120641.704	C9	E 6038054.238
55-0	E 6025927.086	N 2119601.320		N 2126382.460
56-0	E 6025287.335	N 2119457.228	C10	E 6039210.601
57-0	E 6024120.591	N 2119194.441		N 2126093.736



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 LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY THE CORPS OF ENGINEERS

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. NGVD 1929

VERTICAL CONTROL.
BENCHMARK MONUMENT 4787A 1994 ELEV. 9.08 FT. MLLW.
BENCHMARK MONUMENT 4777A 1994 ELEV. 13.67 FT. MLLW.
BENCHMARK MONUMENT MOLE TM 1 ELEV 12.38 FT. MLLW.
BENCHMARK MONUMENT PORT1 1998 ELEV 9.08 FT. MLLW.
TIDE GAUGE LOCATION: OAKLAND ARMY BASE, PIER 7, BERTH 40

HORIZONTAL GPS CONTROL.
COAST GUARD BEACON

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION. ZONE III, CALIFORNIA AS DESCRIBED IN SPCDM. PUBLICATION NO. 235. PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH OF OUTER HARBOR IS 42 FEET. PROJECT OF INNER HARBOR TO PARK STREET BRIDGE IS 42 FEET. TIDAL CANAL PROJECT DEPTH IS 25 FEET.

SHEET INDEX

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Date: 12/2/2003
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GRAPHICS SCALE 1" = 200'

200' 0 100' 200' 400' 800'

US Army Corps of Engineers
San Francisco District
333 Market Street
San Francisco, CA 94105

Mark	Description	Date	Appr.

DESIGNED BY: PC	CHECKED BY: TVW	DRAWN BY: EWC	
DATE: 11/29/2003	SHEET NO. 3 OF 8	DRAWING NO. 2	2 346

PREPARED UNDER THE DIRECTION OF
MICHAEL McCORMICK
LT. COLONEL, C.E., DISTRICT ENGINEER

SUBMITTED:
Hydro Survey Section

APPROVAL RECOMMENDED:
Chief, Engineering Branch

APPROVED:
Chief, Engineering & Technical Services Div.

ALAMEDA COUNTY CALIFORNIA

OAKLAND INNER & OUTER HARBOR

POSTDREDGE SURVEY
21, 24-26, 28 & 29 NOVEMBER
1 DECEMBER 2003

Sheet reference number
C3

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