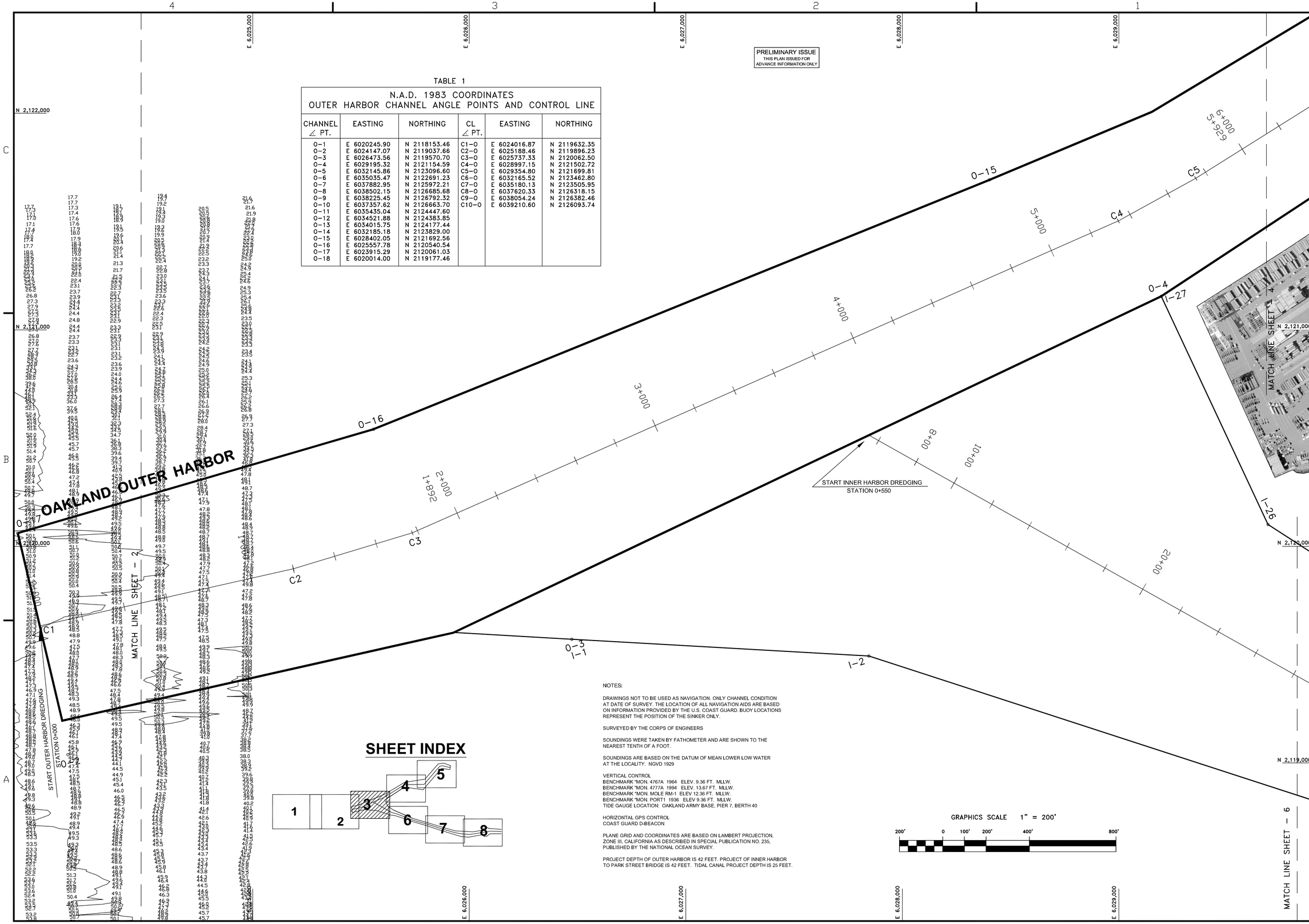
PRELIMINARY ISSUE
THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY

TABLE 1

N.A.D. 1983 COORDINATES
OUTER HARBOR CHANNEL ANGLE POINTS AND CONTROL LINE

CHANNEL ∠ PT.	EASTING	NORTHING	CL ∠ PT.	EASTING	NORTHING
O-1	E 6020245.90	N 2118153.46	C1-O	E 6024016.87	N 2119632.35
O-2	E 6024147.07	N 2119037.66	C2-O	E 6025188.46	N 2119896.23
O-3	E 6026473.56	N 2119570.70	C3-O	E 6025737.33	N 2120062.50
O-4	E 6029195.32	N 2121154.59	C4-O	E 6028997.15	N 2121502.72
O-5	E 6032145.86	N 2123096.60	C5-O	E 6029354.80	N 2121699.81
O-6	E 6035035.47	N 2122691.23	C6-O	E 6032165.52	N 2123462.80
O-7	E 6037882.95	N 2125972.21	C7-O	E 6035180.13	N 2123505.95
O-8	E 6038502.15	N 2126685.68	C8-O	E 6037620.33	N 2126318.15
O-9	E 6038225.45	N 2126792.32	C9-O	E 6038054.24	N 2126382.46
O-10	E 6037357.62	N 2126663.70	C10-O	E 6039210.60	N 2126093.74
O-11	E 6035435.04	N 2124447.60			
O-12	E 6034521.88	N 2124383.85			
O-13	E 6034015.75	N 2124177.44			
O-14	E 6032185.18	N 2123829.00			
O-15	E 6028402.05	N 2121692.56			
O-16	E 6025557.78	N 2120540.54			
O-17	E 6023915.29	N 2120061.03			
O-18	E 6020014.00	N 2119177.46			



SHEET INDEX

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 "MON. 4767A 1964 ELEV. 9.36 FT. MLLW.
BENCHMARK "MON. 4777A 1994 ELEV. 13.67 FT. MLLW.
BENCHMARK "MON. MOLE RM-1 ELEV 12.36 FT. MLLW.
BENCHMARK "MON. PORT1 1936 ELEV 9.36 FT. MLLW.
TIDE GAUGE LOCATION: OAKLAND ARMY BASE, PIER 7, BERTH 40

HORIZONTAL GPS CONTROL
COAST GUARD D-BEACON

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE III. CALIFORNIA AS DESCRIBED IN SPECIAL 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.

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: PC
DATE: 09/20/2005
SHEET NO. 3 OF 8
DRAWING NO. 2
PREPARED UNDER THE DIRECTION OF
PHILIP T. FEIR
LT. COLONEL, C.E., DISTRICT ENGINEER

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

CALIFORNIA
ALAMEDA COUNTY
OAKLAND HARBOR
OAKLAND INNER/OUTER HARBOR
AIDS TO NAVIGATION SURVEY
1 & 23 SEPTEMBER 2005

Sheet reference number
C3

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