

TABLE 1  
N.A.D. 1983 COORDINATES  
OUTER HARBOR CHANNEL ANGLE POINTS AND CONTROL LINE

CHANNEL ∠ PT.	EASTING	NORTHING	CL ∠ PT.	EASTING	NORTHING
0-1	E 6020245.90	N 2118153.46	C1-0	E 6024016.87	N 2119632.35
0-2	E 6024147.07	N 2119037.66	C2-0	E 6025188.46	N 2119896.23
0-3	E 6026473.56	N 2119570.70	C3-0	E 6025737.33	N 2120062.50
0-4	E 6029195.32	N 2121154.59	C4-0	E 6028997.15	N 2121502.72
0-5	E 6032145.86	N 2123096.60	C5-0	E 6029354.80	N 2121699.81
0-6	E 6035035.47	N 2122691.23	C6-0	E 6032165.52	N 2123462.80
0-7	E 6037882.95	N 2125972.21	C7-0	E 6035180.13	N 2123505.95
0-8	E 6038502.15	N 2126685.68	C8-0	E 6037620.33	N 2126318.15
0-9	E 6038225.45	N 2126792.32	C9-0	E 6038054.24	N 2126382.46
0-10	E 6037357.62	N 2126663.70	C10-0	E 6039210.60	N 2126093.74
0-11	E 6035435.04	N 2124447.60			
0-12	E 6034521.88	N 2124383.85			
0-13	E 6034015.75	N 2124177.44			
0-14	E 6032185.18	N 2123829.00			
0-15	E 6028402.05	N 2121692.56			
0-16	E 6025557.78	N 2120540.54			
0-17	E 6023915.29	N 2120061.03			
0-18	E 6020014.00	N 2119177.46			

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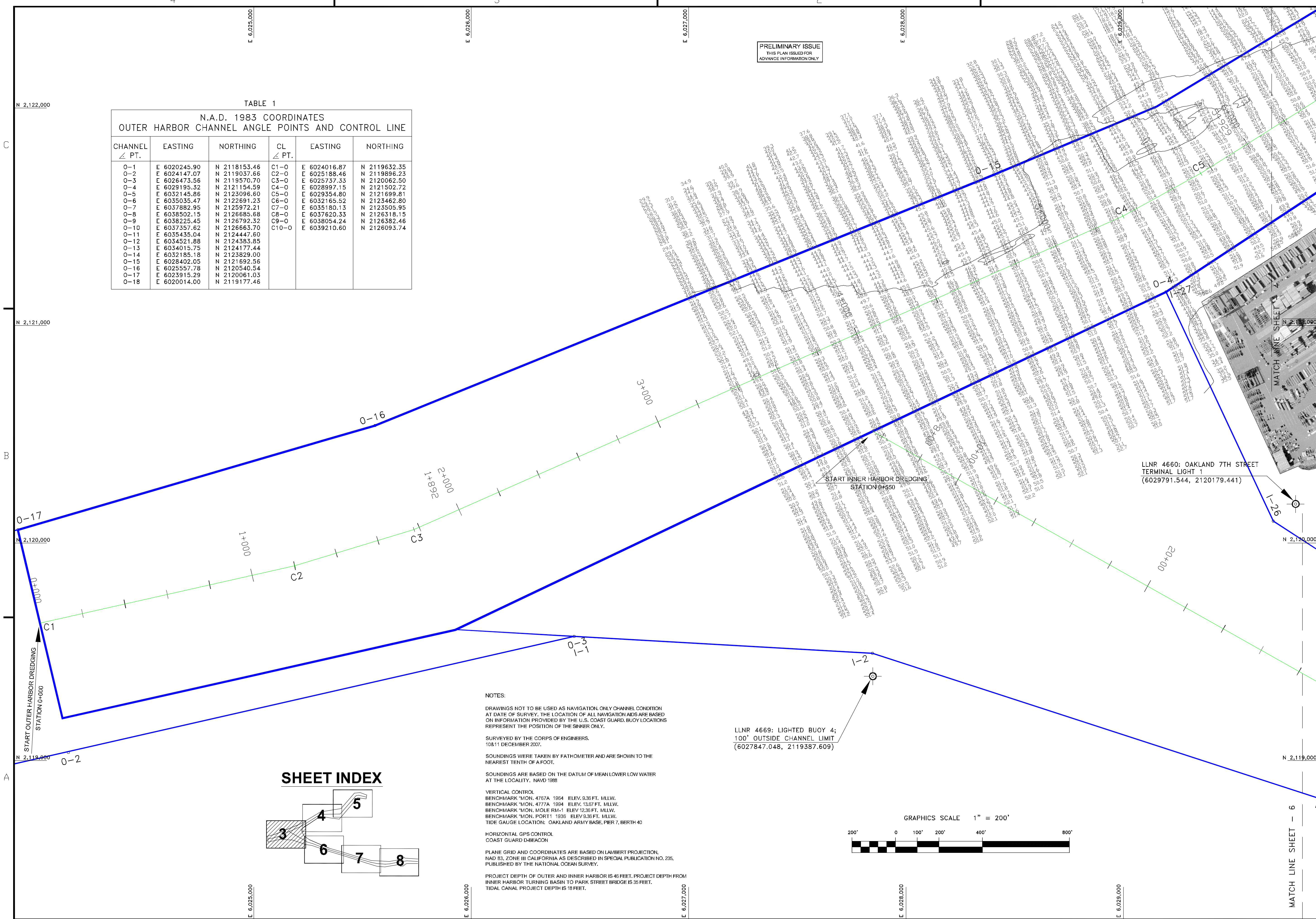
US Army Corps  
of Engineers  
San Francisco District  
333 Market Street  
San Francisco, CA 94105

Mark	Description	Date	Appr.

DESIGNED BY:	TW	CHECKED BY:	TW	DRAWN BY:	EWC
DATE:	12/20/2007	DATE:	12/20/2007	DATE:	12/20/2007
SHEET NO.:	3	SHEET NO.:	3	SHEET NO.:	3
OF:	8	OF:	8	OF:	8
APPROVAL RECOMMENDED:	Chief, Technical Support Section	APPROVAL RECOMMENDED:	Chief, Construction Branch	APPROVAL RECOMMENDED:	Chief, Construction Branch
APPROVED:	CRAIG W. KILEY	APPROVED:	CRAIG W. KILEY	APPROVED:	CRAIG W. KILEY
PREPARED UNDER THE DIRECTION OF:	LT. COLONEL W. KILEY	PREPARED UNDER THE DIRECTION OF:	LT. COLONEL W. KILEY	PREPARED UNDER THE DIRECTION OF:	LT. COLONEL W. KILEY

CALIFORNIA  
ALAMEDA COUNTY  
OAKLAND HARBOR  
OAKLAND INNER/OUTER HARBOR  
PREDDREDGE SURVEY  
10-11 DECEMBER 2007

Sheet  
reference  
number  
C3



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.  
10&11 DECEMBER 2007.

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 1988

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. PORT 1 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, NAD 83, ZONE III CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH OF OUTER AND INNER HARBOR IS 46 FEET. PROJECT DEPTH FROM INNER HARBOR TURNING BASIN TO PARK STREET BRIDGE IS 35 FEET. TIDAL CANAL PROJECT DEPTH IS 18 FEET.

