TABLE 1

N.A.D. 1983 COORDINATES ENTRANCE CHANNELS CONTROL LINES					
ENTRANCE CHANNEL OUTER			ENTRANCE CHANNEL INNER		
CL PT.	EASTING	NORTHING	CL PT.	EASTING	NORTHING
C1	E 6024016.87	N 2119632.35	C1	E 6027367.39	N 2120782.67
C2	E 6025188.46	N 2119896.23	C2	E 6030203.70	N 2119186.86
C3	E 6025737.33	N 2120062.50	C3	E 6030970.56	N 2118975.22
C4	E 6026997.45	N 2121502.85	C4	E 6032835.95	N 2118274.91
C5	E 6029354.80	N 2121699.81	C5	E 6033407.11	N 2118039.05
C6	E 6032165.53	N 2123462.88	C6	E 6035479.57	N 2117440.87
C7	E 6035180.13	N 2123505.95	C7	E 6037862.88	N 2116685.55
C8	E 6037620.33	N 2126318.15	C8	E 6039110.62	N 2116320.75
C9	E 6038054.24	N 2126382.46	C9	E 6039888.05	N 2116094.99
C10	E 6039210.60	N 2126093.74	C10	E 6040877.20	N 2115906.13
			C11	E 6042074.35	N 2115815.34
			C12	E 6042771.74	N 2115866.56
			C13	E 6043911.04	N 2116070.05
			C14	E 6045424.07	N 2116312.57
			C15	E 6047090.98	N 2116244.72

LEGEND:
-50'
-49'
-48'
-47'
-46'

LLNR 4660: OAKLAND 7TH STREET TERMINAL LIGHT 1 (6029791.544, 2120179.441)

LLNR 4669: LIGHTED BUOY 4; 100' OUTSIDE CHANNEL LIMIT (6027847.048, 2119387.609)

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. NAVD 88.

VERTICAL CONTROL
BENCHMARK "MON. 4787A 1984 ELEV. 9.36 FT. MLLW.
BENCHMARK "MON. 4777A 1984 ELEV. 13.67 FT. MLLW.
BENCHMARK "MON. MOLE RM-1 ELEV 12.36 FT. MLLW.
BENCHMARK "MON. PORT1 1936 ELEV 9.38 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.

PRELIMINARY ISSUE
NOT FOR NAVIGATION
ADVANCE NOTICE ONLY

SHEET INDEX

GRAPHICS SCALE 1" = 200'

MATCH LINE SHEET - 4

MATCH LINE SHEET - 6

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

Mark	Description	Date	Appr.

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

DESIGNED BY: | CHECKED BY: TVW | DRAWN BY: EWC
DATE: 9/28/2009 | SHEET NO. 3 OF 8 | DRAWING NO. 2 | XXX

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

ALAMEDA COUNTY CALIFORNIA

OAKLAND HARBOR
OUTER HARBOR
COMPOSITE SURVEY
JULY - SEPTEMBER 2009

Sheet reference number
C3