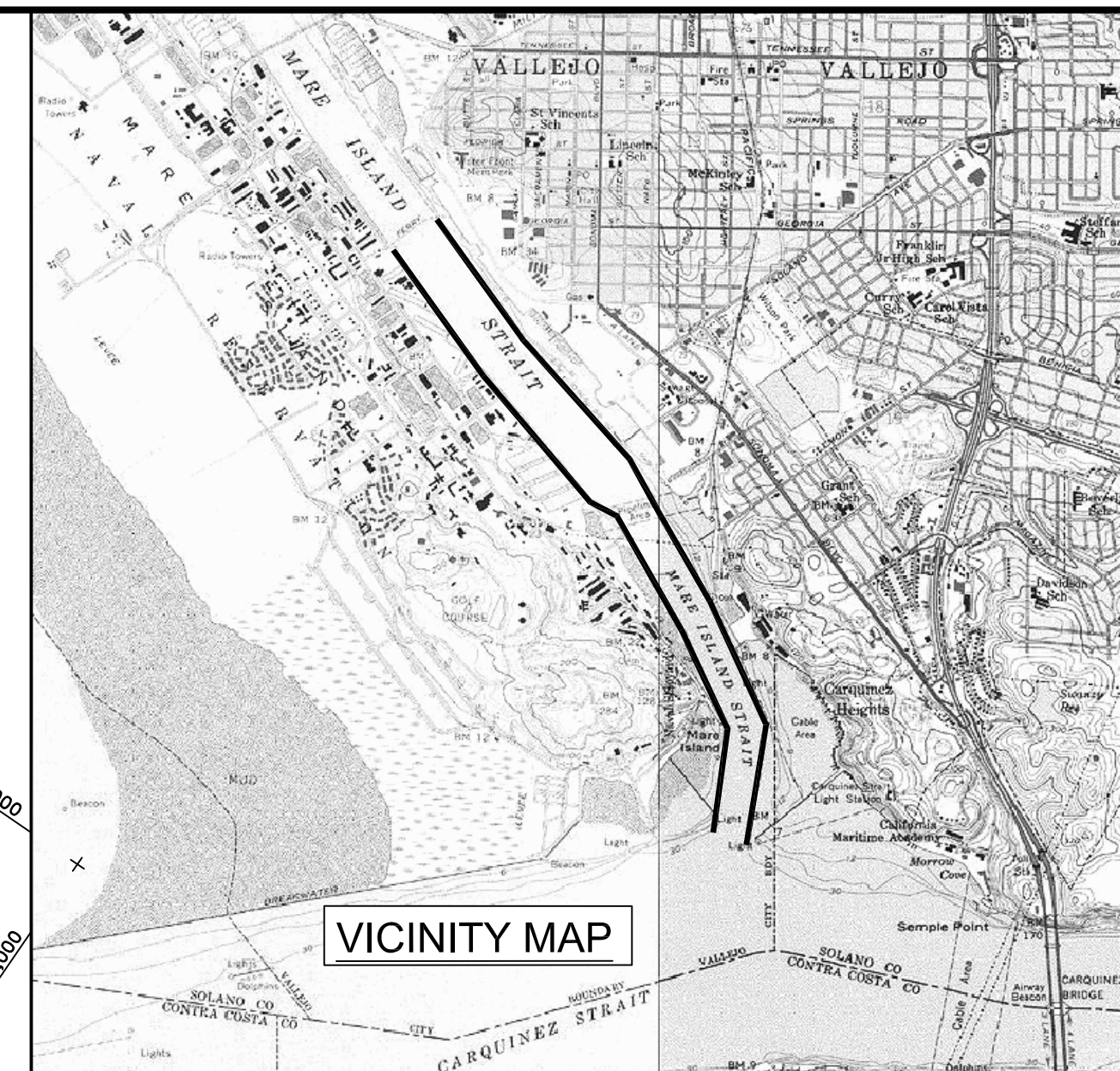


PRELIMINARY ISSUE  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY



**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	DESIGNED BY:	CHECKED BY:	DRAWN BY:
	DATE: 09/21/2009	TJV	EVC
APPROVAL RECOMMENDED:	SHEET NO. 1 OF 3	DRAWING NO. X	XXX
CHIEF, Technical Support Section	PREPARED UNDER THE DIRECTION OF LAURENCE M. FARRELL LT. COLONEL, C.E., DISTRICT ENGINEER		
APPROVED:	Chief, Construction Branch		

MARIN COUNTY CALIFORNIA  
**MARE ISLAND STRAIT  
CONDITION SURVEY**  
15-16 SEPTEMBER 2009

Sheet reference number  
**C1**

**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, 15-16 SEPTEMBER 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.

VERTICAL CONTROL  
BENCHMARK "TIDAL 7" 1936 ELEV. 15.93 FT MLLW.  
BENCHMARK "TIDAL 5" 1936 ELEV. 14.03 FT MLLW.  
TIDE GAUGE LOCATED AT SPERRY FLOUR PLANT DOCK AND MON. GROTTO.

HORIZONTAL GPS CONTROL  
COAST GUARD D-BEACON

PLANE GRID 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. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

1:00 INDICATES THE NUMBER AND BEGINNING OF A LINE OF SOUNDINGS.

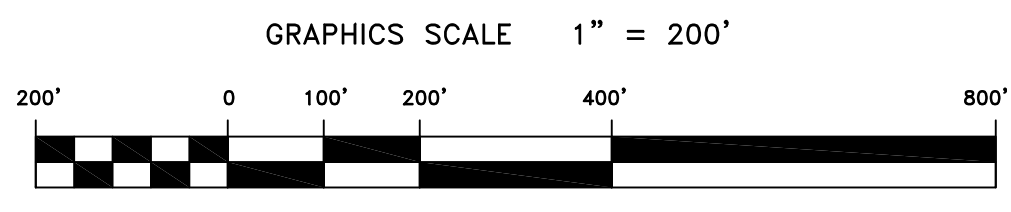
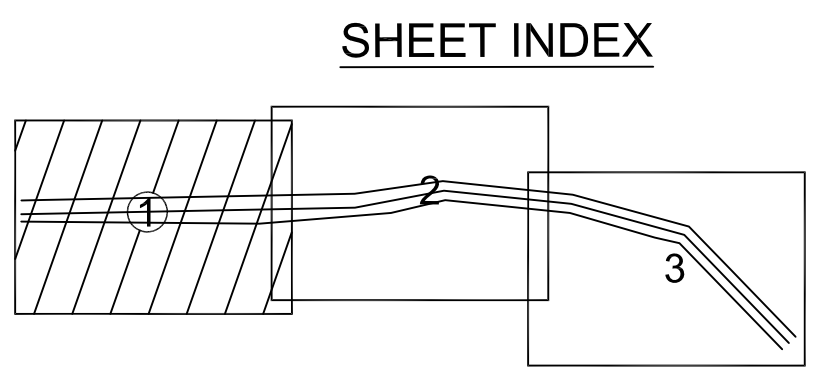
PROJECT DEPTH IS 30 FEET FOR MAIN CHANNEL AND 36 FT FOR NAVY CHANNEL.

NAD 1983  
CENTERLINE ANGLE POINTS

△ PT	X	Y
C1	6051581.21	2230222.67
C2	6055795.81	2224330.97
C3	6057191.11	2222944.87
C4	6058518.11	2220503.97
C5	6059347.51	2218102.87
C6	6058696.31	2214902.17

NAD 1983  
CHANNEL ANGLE POINTS

△ PT	X	Y
1	6051829.91	2230390.67
2	6052091.81	2230024.57
3	6056039.61	2224505.87
4	6057346.91	2223082.07
5	6058699.11	2220590.07
6	6059555.31	2218121.17
7	6058891.41	2214858.27
8	6058501.11	2214945.97
9	6059139.71	2218084.57
10	6058937.71	2218596.57
11	6058337.01	2220417.87
12	6057035.31	2222807.67
13	6056140.51	2223621.17
14	6054337.11	2225843.77
15	6051448.71	2230133.17



MATCHLINE SHEET 2