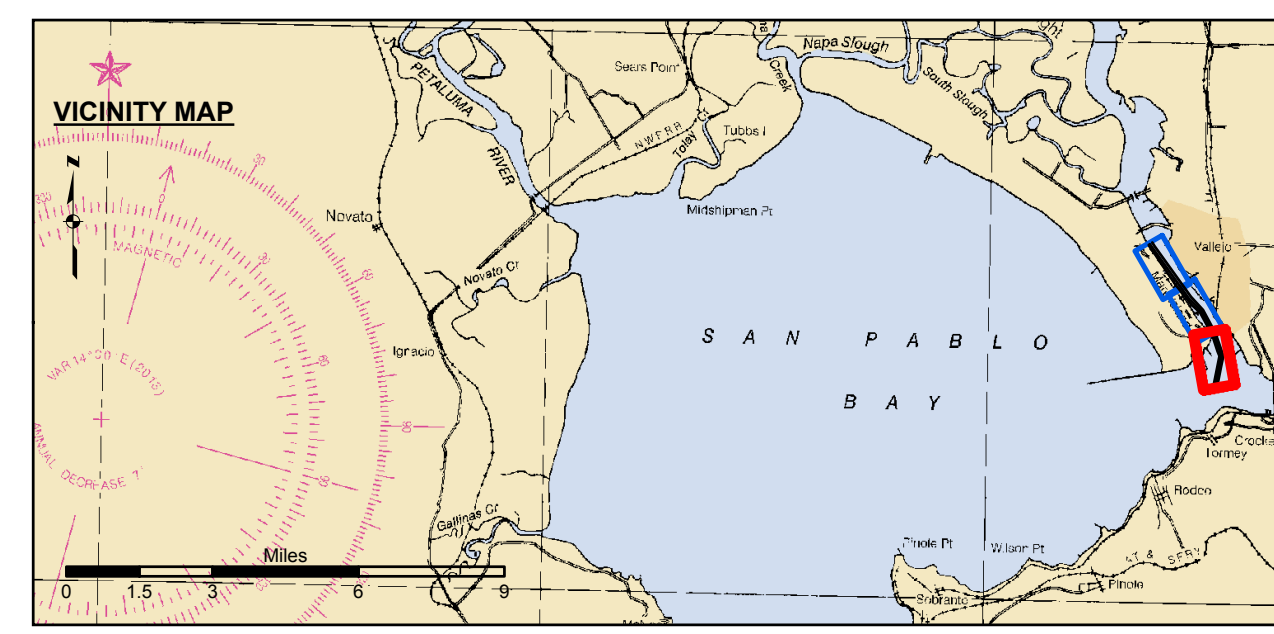
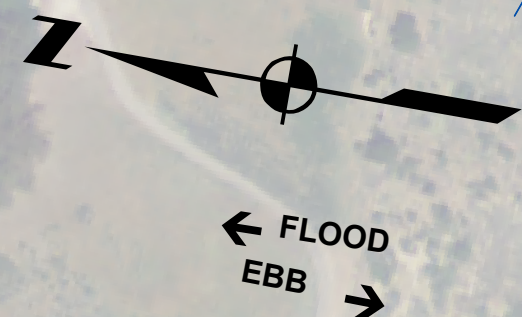
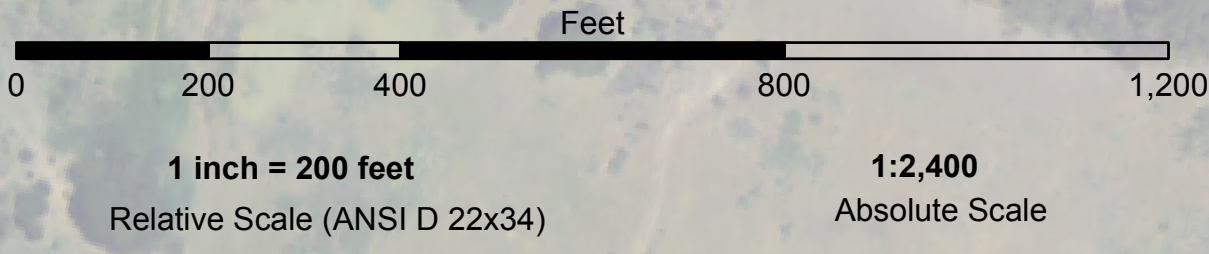


NAD 83 CHANNEL ANGLE POINT		
Angle Pt	X	Y
C01	6051581.21	2230222.67
C02	6055795.81	2224330.97
C03	6057191.11	2222944.87
C04	6058518.11	2220503.97
C05	6059347.51	2218102.87
C06	6058696.31	2214902.17

NAD 83 CHANNEL ANGLE POINT		
Angle 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

PRELIMINARY ISSUE
THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY



Federal Navigation Channel	Beacon, General	Contours
Shoaling Area	Obstruction Point	-30
Placement Area	Navigation Buoy	-29
Anchorage Area	Navigation Buoy	-28
Wreck Area	Shoalest Sounding*	-27
Submerged Wreck		-26
Angle Point		

NOTES:
DRAWING NOT TO BE USED FOR 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.
VERTICAL CONTROL:
USACE BM NAPAR03, MLLW=11.609 FT
MARK LOCATED ON PIER 56, MARE ISLAND
NOS BM 5218 K 1976 (PID:J79537), MLLW = 12.136 FT
MARK US LOCATED AT SOUTH END OF MARE ISLAND
http://tidesandcurrents.noaa.gov/data_menu.shtml?stn=9415218
MARE ISLAND, CA & TYPE = BENCH MARK SHEETS
TIDE GAUGE LOCATION:
1. NOAA STATION 941 5218 - ONLINE
2. MARE ISLAND BERTH 2
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 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

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

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Prepared Under the Direction of: JOHN C. MORROW LT. COLONEL, C.E., DISTRICT ENGINEER	Chart Date: Oct 02, 2014
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	

MARIN COUNTY
MARE ISLAND STRAIT
CONDITION SURVEY
24 SEPTEMBER 2014

Sheet Reference Number
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