



PRELIMINARY ISSUE
THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY

1 inch = 200 feet
Relative Scale (ANSI D 22x34)

1:2,400
Absolute Scale

	Federal Navigation Channel		Beacon, General	Contour Lines		51
	Shoaling Area		Obstruction Point		52	
	Placement Area		Navigation Buoy		53	
	Anchorage Area		Navigation Buoy		54	
	Wreck Area		Shoalest Sounding*		55	
	Submerged Wreck					
	Angle Point					

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 ARE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST FOOT AND TENTHS OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE III NAD83, CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 55 FEET AT M.L.L.W.

SOUNDINGS ARE BASED TIDE GAUGE LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.

CONTROL:
Bonita 01 201337 49 10.915N, 122 31 51.344W
MLLW: 258.42 ft (VDatum)
WGS84: 46.188m

941 4290 N TIDAL
37 48 20.200N, 122 28 00.811W
MLLW: 11.92 ft
WGS84: -28.901m
NOAA ONLINE TIDE STATION 941 4290

POSITIONING:
HORIZONTAL: RTK
VERTICAL: RTK Tides
BASE STATION AT BONITA 01 2013
TIDE VERIFIED AT "TG 1" - NAIL SET AT 10.0 ft MLLW ON NOAA TIDE STATION PIER

US Army Corps of Engineers
San Francisco District
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Prepared Under the Direction of	JOHN C. MORROW	Chart Date	Jul 03, 2014
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Recommended:	Chief, Hydro Survey Section	Checked by:	PDT
Approved:	Chief, Construction Branch	Drawn by:	PDT

SAN FRANCISCO BAY CALIFORNIA
SAN FRANCISCO MAINSHIP CHANNEL POSTDRUDGE SURVEY
20-25 June 2014
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