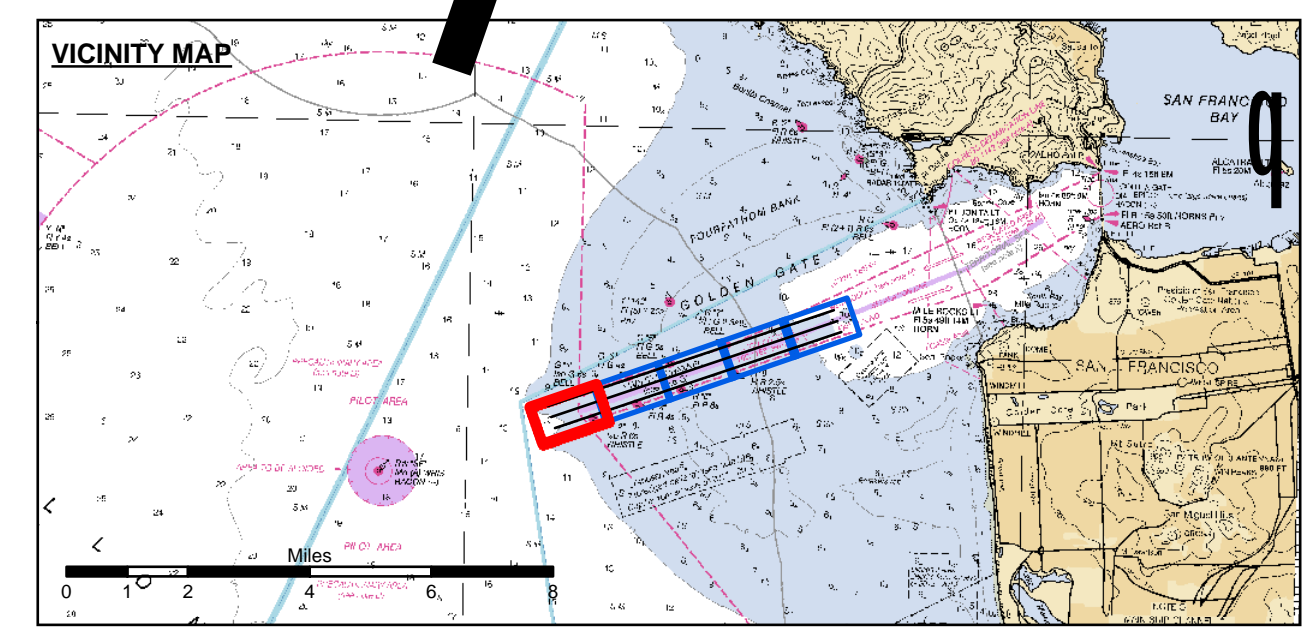
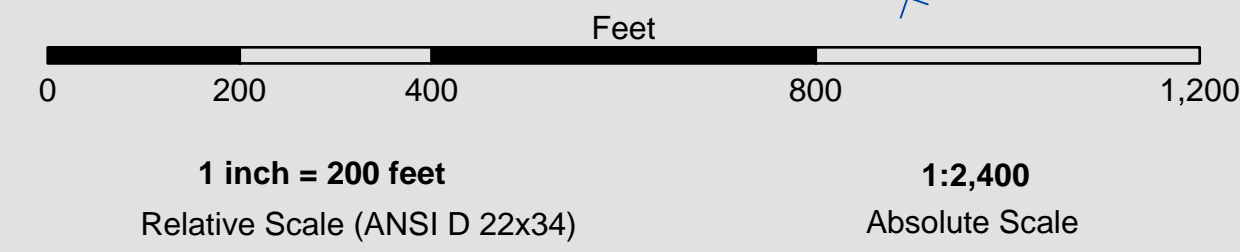


CHANNEL ANGLE POINTS - NAD 83		
CHANNEL	EAST	NORTH
A	5942376.6491	2108540.1149
B	5943012.7491	2106643.9149
C	5967229.2491	2116876.3149
D	5967865.3491	2114980.1149

CENTERLINE ANGLE POINTS - NAD 83		
CENTERLINE	EAST	NORTH
C1	5942694.6491	2107592.0149
C2	5967547.2491	2115928.2149

**PRELIMINARY ISSUE**  
THIS PLAN ISSUED FOR  
ADVANCE INFORMATION ONLY



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

NOTES:  
HORIZONTAL COORDINATE SYSTEM:  
NORTH AMERICAN DATUM OF 1983 (NAD83), PROJECTED TO THE STATE PLANE COORDINATE SYSTEM (SPCS), CALIFORNIA ZONE III. DISTANCE UNITS IN U.S. SURVEY FEET.  
VERTICAL DATUM:  
SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MEAN LOWER LOW WATER.  
THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY CONDUCTED ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED TO REPRESENT THE GENERAL CONDITION EXISTING AT THAT TIME.  
\*SHOALEST SOUNDING PER QUARTER PER REACH

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.  
INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.  
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.  
PLANE GRID, BEARING 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.  
THE PROJECT DEPTH IS 55 FEET AT M.L.L.W. SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.  
VERTICAL CONTROL:  
BENCHMARK "Q-481" USCGS DISK ELEV. 19.54 FT MLLW.  
HORIZONTAL CONTROL:  
COAST GUARD D-BEACON.

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

**DISCLAIMER:** The United States Government furnishes this information as a service to the public. It is not intended to be used for navigation. The user is responsible for the accuracy of the data for their own intended purpose. Distribution Liability: The data represents the results of data collected by the US Army Corps of Engineers. Engineers activity and indicates the general existing conditions. As such, it is only valid for its intended use, content, time and accuracy. The user is responsible for the accuracy of the data for their own intended purpose. No liability whatsoever to any person by reason of any use made hereof. These data belong to the Government. Therefore the Government provides this data. The recipient may not transfer these data to others without also transferring the Disclaimer.

Prepared Under the Direction of <b>JOHN C. MORROW</b> LT COLONEL, C.E., DISTRICT ENGINEER	Chart Date: May 20, 2015
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Drawn by: PDT
Approved: Chief, Construction Branch	PDT

**SAN FRANCISCO BAY**  
**SAN FRANCISCO**  
**MAINSHIP CHANNEL**  
**PREDREDGE SURVEY**  
18 MAY 2018

**Sheet Reference Number**  
**1 of 5**