

NOTES:
HORIZONTAL COORDINATE SYSTEM:
NORTH AMERICAN DATUM OF 1983 (NAVD88), 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.

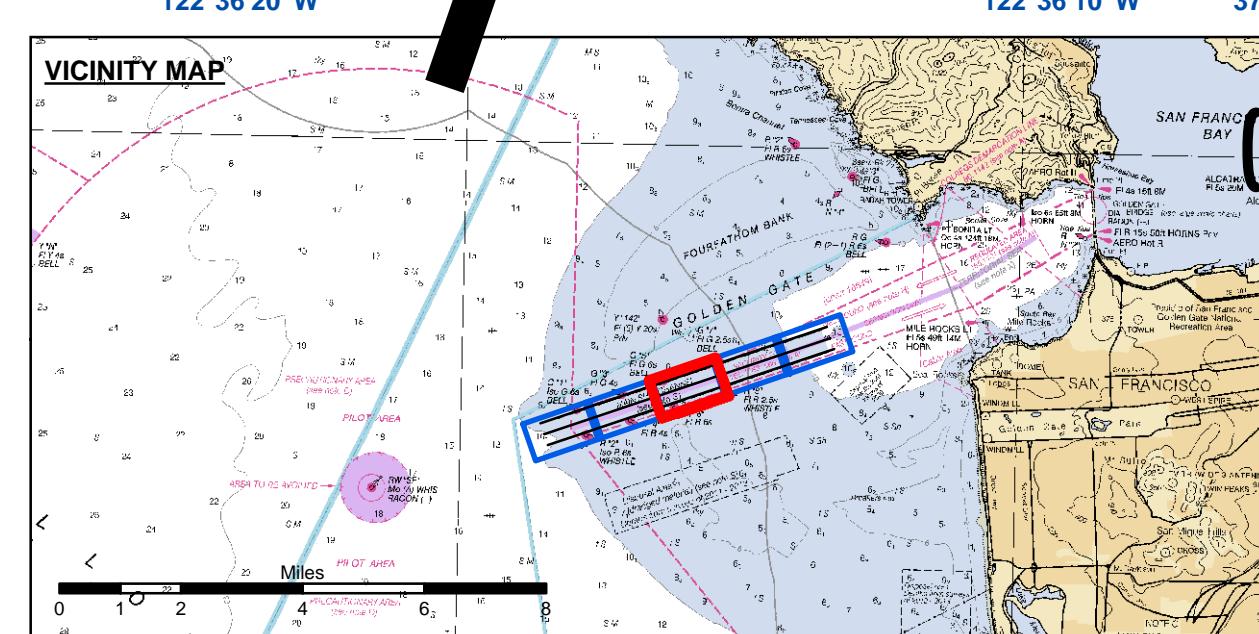
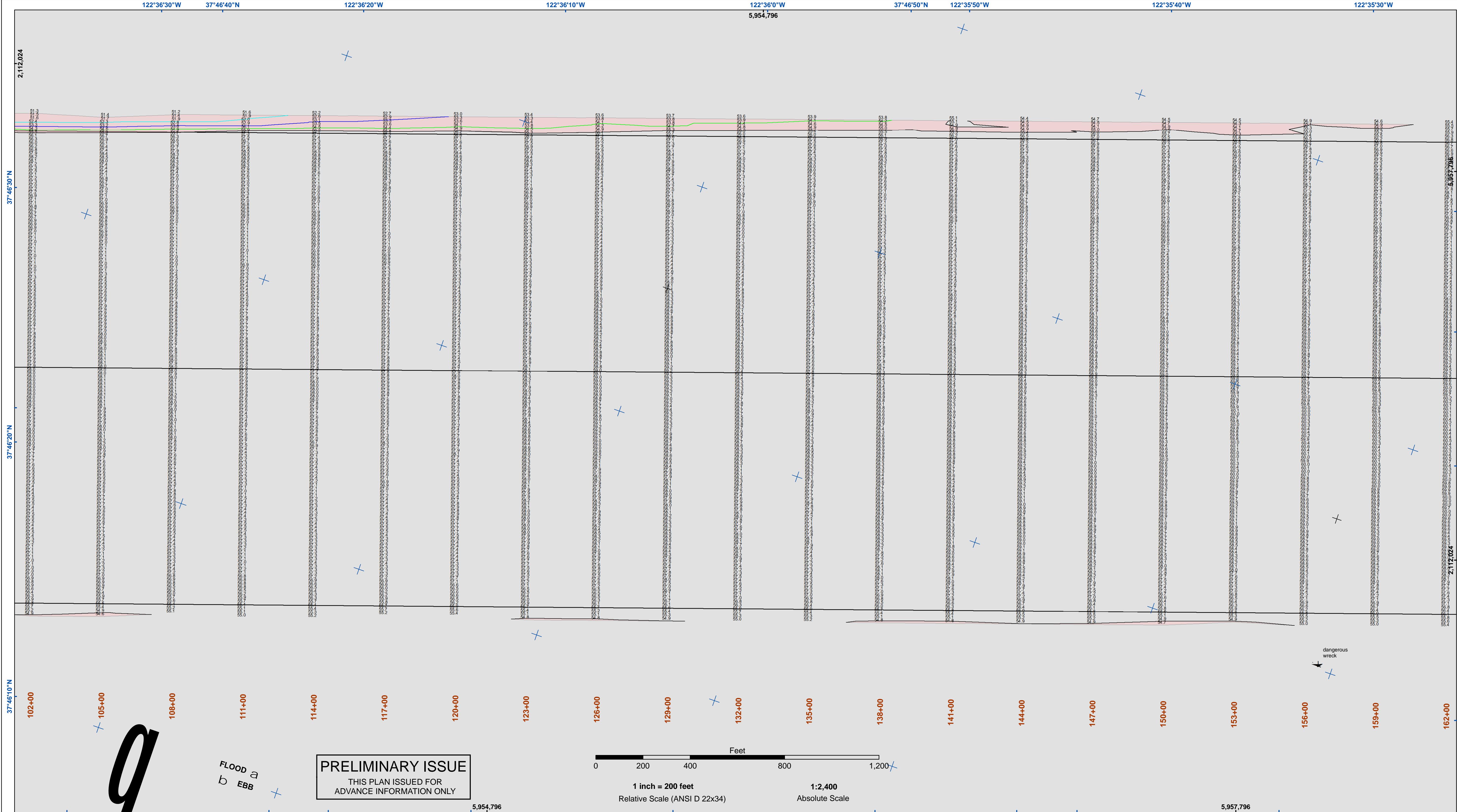
SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY, NAVD 88.

PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM,
LAMBERT CONFORMAL PROJECTION, ZONE III IN NAVD 88.
CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 55 FEET AT MLLW. SOUNDINGS ARE BASED ON THE TIDE GAUGE
LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.

VERTICAL CONTROL:
BENCHMARK 'Q-481' USC&GS DISK ELEV. 19.54 FT MLLW.

HORIZONTAL CONTROL:
COAST GUARD D-BEACON.



PRELIMINARY ISSUE

**THIS PLAN ISSUED FOR
ADVANCE INFORMATION ONLY**

- Federal Navigation Char

 Shoaling Area

 Placement Area

 Anchorage Area

 Wreck Area

 Submerged Wreck

 Angle Point

-  Beacon, General
 -  Obstruction Point
 -  Navigation Buoy
 -  Navigation Buoy
 -  Shoal/lest Soundings

- A diagram titled "Contour Lines" showing five horizontal lines of different colors: red, light blue, dark blue, green, and black. Each line is accompanied by a numerical value to its right: 51, 52, 53, 54, and 55 respectively. The lines are evenly spaced vertically.

NOTES:
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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 BUOY AT THE TIME OF THE SURVEY.
INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS CONDUCTED IN 2007.

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.

THE SEVERAL SURVEYS AND AT THAT TIME
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.

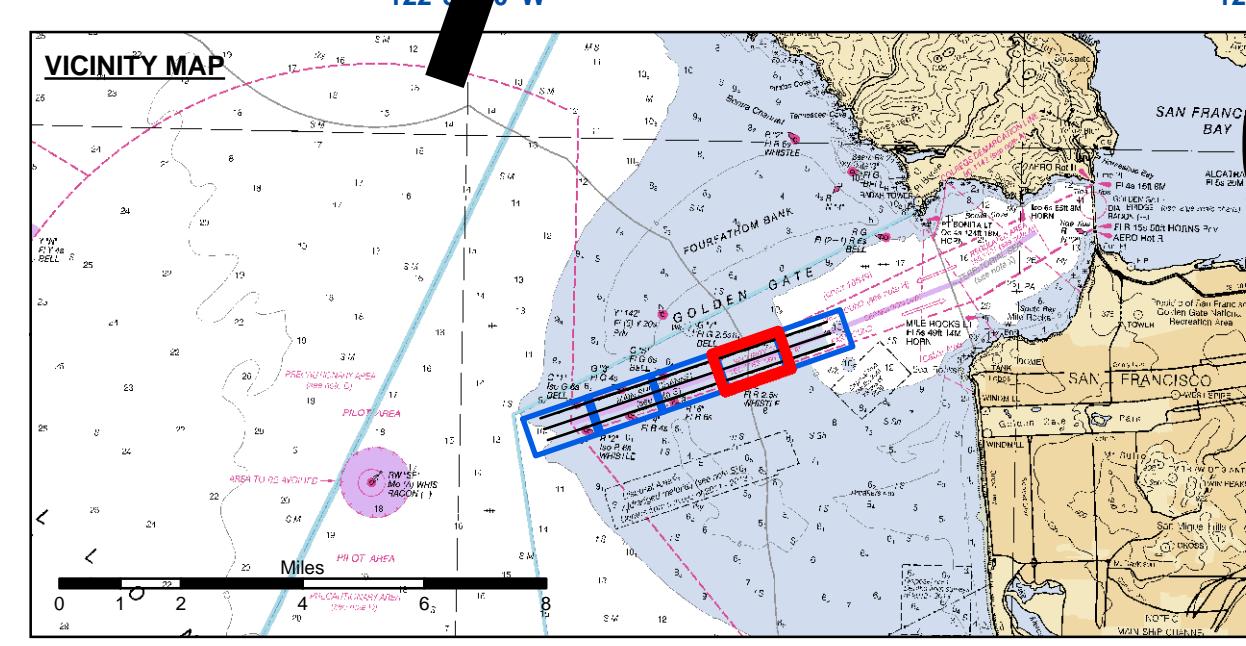
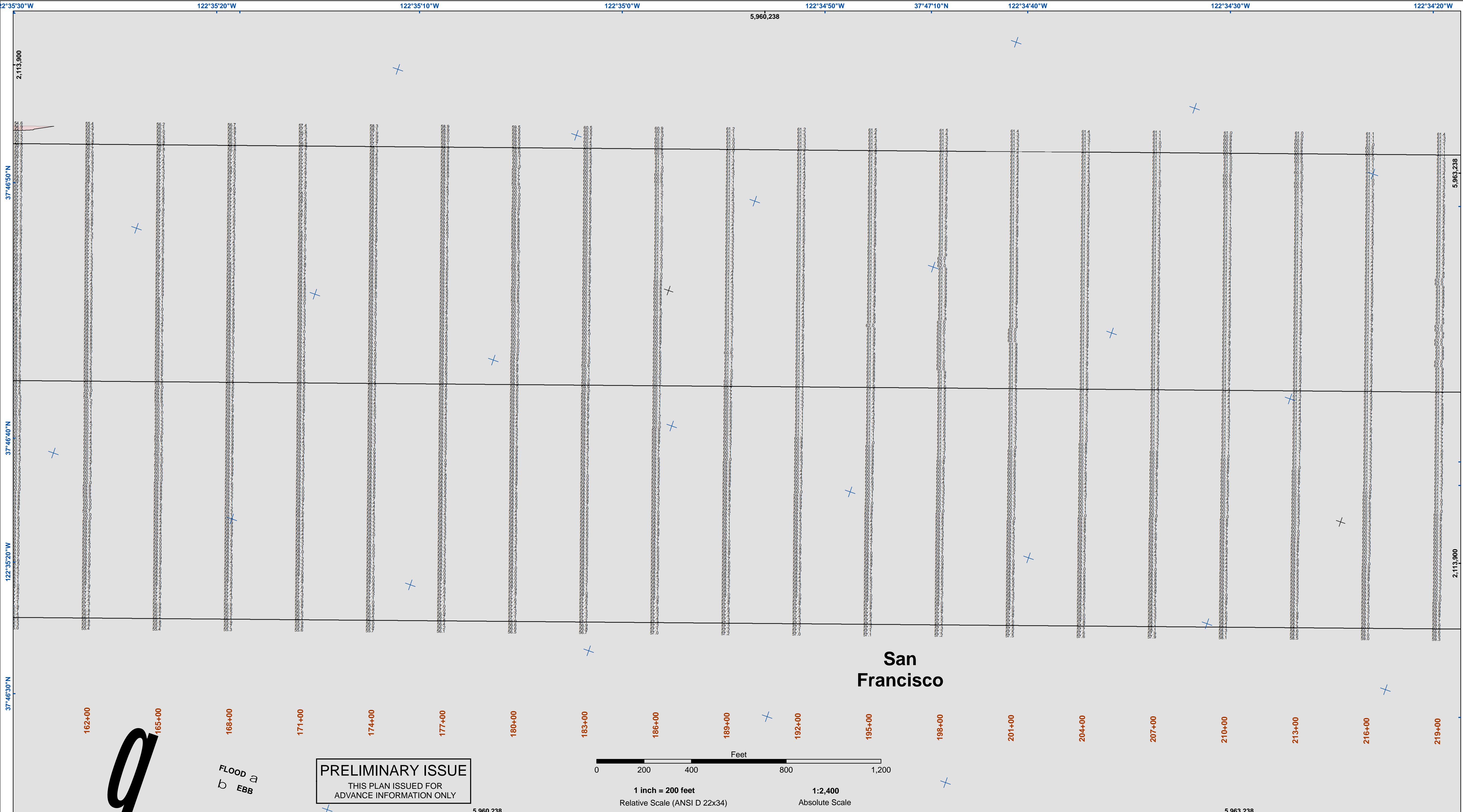
PLANE GRID, BEARING AND COORDINATES ARE BASED ON THE STATE OF CALIFORNIA COORDINATE SYSTEM
LAMBERT CONFORMAL PROJECTION, ZONE 11NAD 83

LAMBERT CONFORMAL PROJECTION, ZONE III NAD 83,
CALIFORNIA, AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY NATIONAL OCEAN

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

LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO

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—	Federal Navigation Channel
■	Shoaling Area
■	Placement Area
■	Anchorage Area
■	Wreck Area
■	Submerged Wreck
■	Angle Point
■	Beacon, General
3/4	Obstruction Point
X	Navigation Buoy
X	Navigation Buoy
-	Shoalest Sounding*

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.

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*SHOALEST SOUNDING PER QUARTER PER REACH

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

VERTICAL CONTROL:
BENCHMARK 'Q-481' US&GS DISK ELEV. 19.54 FT MLLW.

HORIZONTAL CONTROL:
COAST GUARD D-BEACON.

CALIFORNIA
SAN FRANCISCO
MAINSHIP CHANNEL
CONDITION SURVEY

06 JUNE 2016

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U.S. ARMY CORPS
OF ENGINEERS
San Francisco District
1455 Market Street
San Francisco, CA 94103

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PREPARED UNDER THE DIRECTION OF	Surveyed By:	Chart Date:
JOHN C. MORROW LT. COLONEL, G.E., DISTRICT ENGINEER		Jun 14, 2016
Submitted: Hydro Survey Team Leader	Plotted By: PDT	Designed by:
Recommended: Chief Hydro Survey Section	Drawn By: PDT	Checked By: PDT
Approved: Chief Construction Branch		PDT

2,113,900
37°45'50"N 122°34'20"W

5,963,238
37°47'10"N 122°34'20"W

2,113,900
37°47'10"N 122°34'20"W

