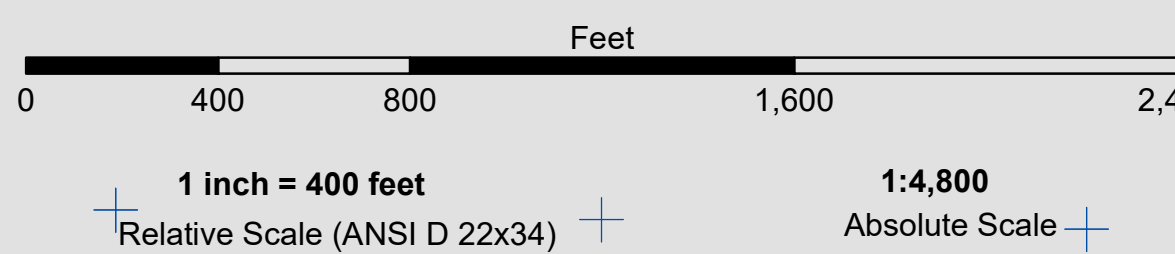


**US Army Corps of Engineers**  
San Francisco District  
450 Golden Gate Ave.  
San Francisco, CA 94102

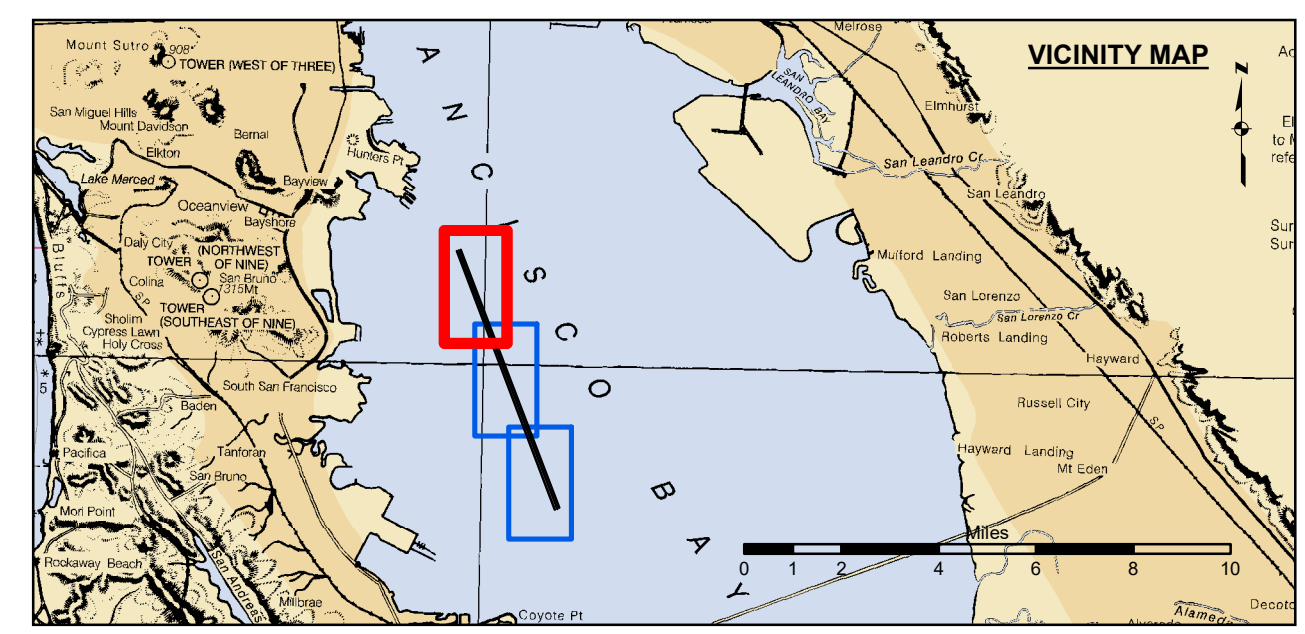
**DISCLAIMER**  
Distribution Liability: The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions of the project area. The user is responsible for the results of any of the application of the data for other than its intended purpose.  
Access Constraints: The United States Government makes no warranty, expressed or implied concerning the accuracy, completeness, information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made hereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring this Disclaimer.

Prepared Under the Direction of	Surveyed By:	Chart Date:
LT COLONEL W. SHEBESTA		Oct 02, 2023
Submitted:	Plotted By:	Designed by:
Hydro Survey Team Leader	PDT	
Recommended:	Checked By:	Drawn by:
Chief, Hydro Survey Section	PDT	PDT
Approved:	Chief, Construction Branch	



CENTERLINE ANGLE POINTS NAD 1983		
CENTERLINE ∠	EAST	NORTH
C1	6028432.2184	2082797.0402
C2	6039090.2184	2054839.0402

CHANNEL ANGLE POINTS NAD 1983		
CHANNEL ∠	EAST	NORTH
1	6028665.8184	2082886.0402
2	6039323.8184	2054933.0402
3	6038856.6184	2054749.9402
4	6028198.6184	2082707.9402



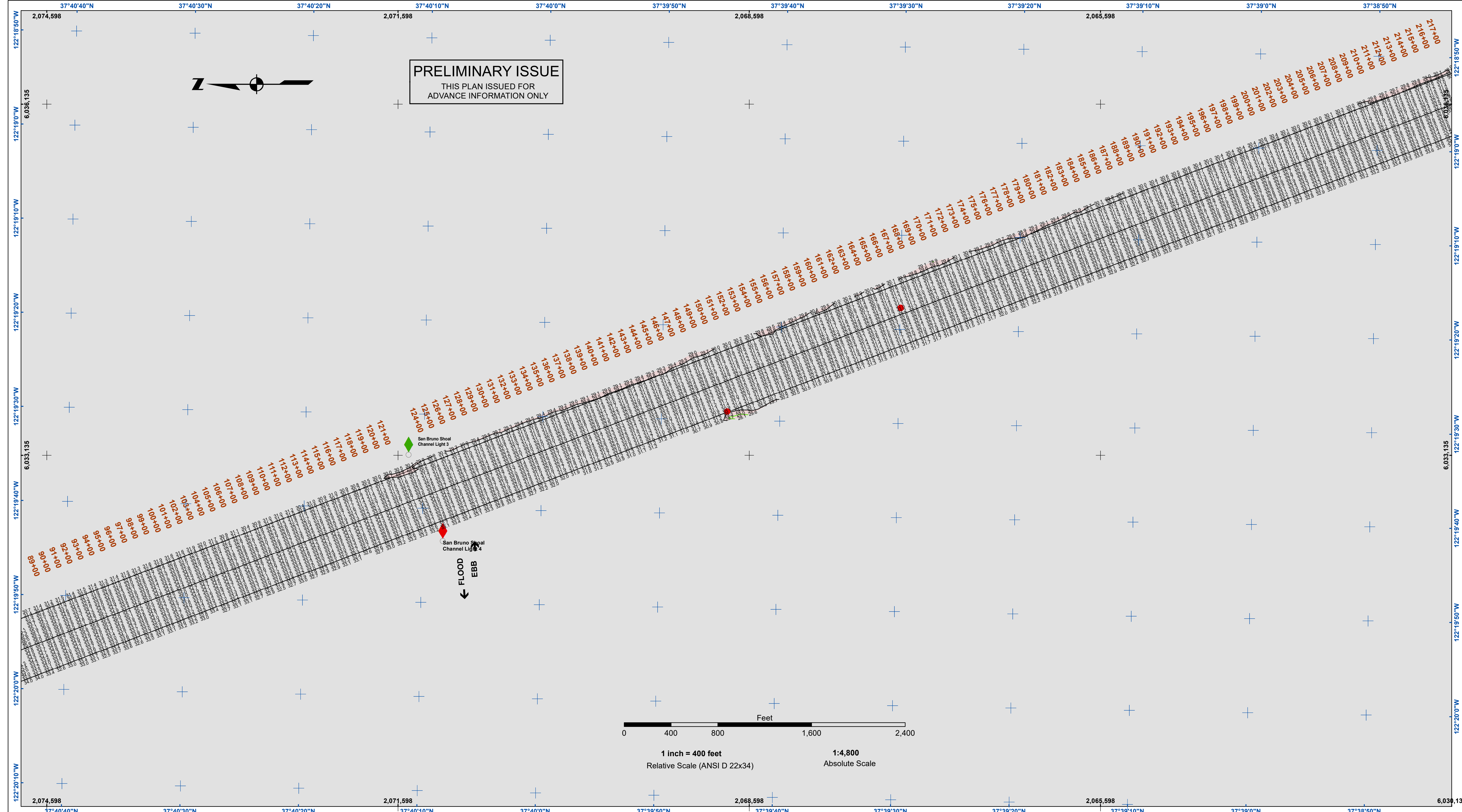
Federal Navigation Channel	Beacon, General	<b>Contours</b>
Shoaling Area	Obstruction Point	-30
Placement Area	Navigation Buoy	-29
Anchorage Area	Navigation Buoy	-28
Wreck Area	Shoalest Sounding*	-27
Submerged Wreck		-26
Angle Point		

**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.  
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.  
SURVEYED BY THE CORPS OF ENGINEERS.  
\*SHOALEST SOUNDING PER QUARTER PER REACH

SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH FOOT.  
SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.  
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. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.  
THE PROJECT DEPTH IS 30 FEET AT M.L.L.W.  
CONTROL: SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.  
CONTROL:  
NOAA 941 4358  
BM 'S 1941': 15.74 FT MLLW  
HUNTERS POINT TIDE GAUGE: 13 FT MLLW  
NAIL AND BRASS WASHER (ORANGE RIBBON ATTACHED) ON PILING AT SE CORNER OF PIER 80  
NAIL LEVELED BY USACE ON 14 FEBRUARY 2016.  
HORIZONTAL COORDINATES: POST PROCESSED RTK FROM LOCAL REFERENCE STATIONS

CALIFORNIA  
SAN MATEO COUNTY  
**SAN BRUNO SHOAL  
CONDITION SURVEY  
28 SEPTEMBER 2023**

**Sheet  
Reference  
Number  
1 of 3**

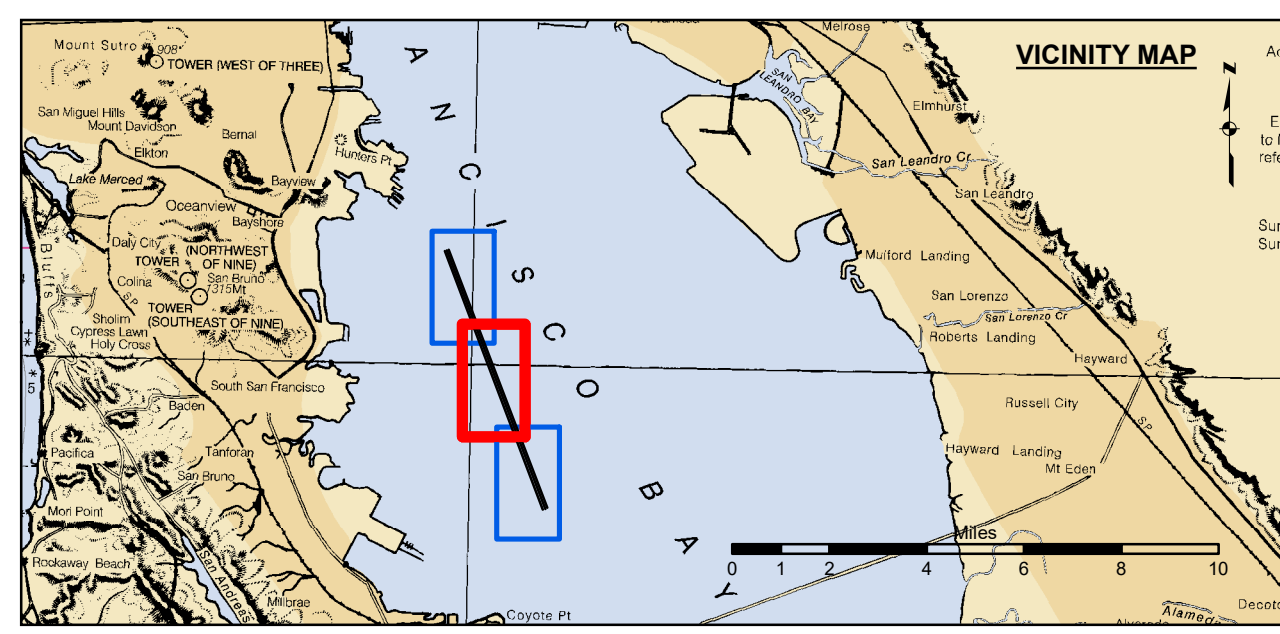


**US Army Corps of Engineers**  
 San Francisco District  
 450 Golden Gate Ave.  
 San Francisco, CA 94102

**DISCLAIMER**  
 The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions expressed, or implied concerning the accuracy, completeness, information and the data furnished. The user is responsible for the results of any of the application of the data for other than its intended purpose.  
 Access Constraints: The United States Government neither expresses nor implied concerning the accuracy, completeness, information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made hereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring this Disclaimer.

Chart Date:	Oct 02, 2023
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Submitted:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Surveyed By:	Plotted By:

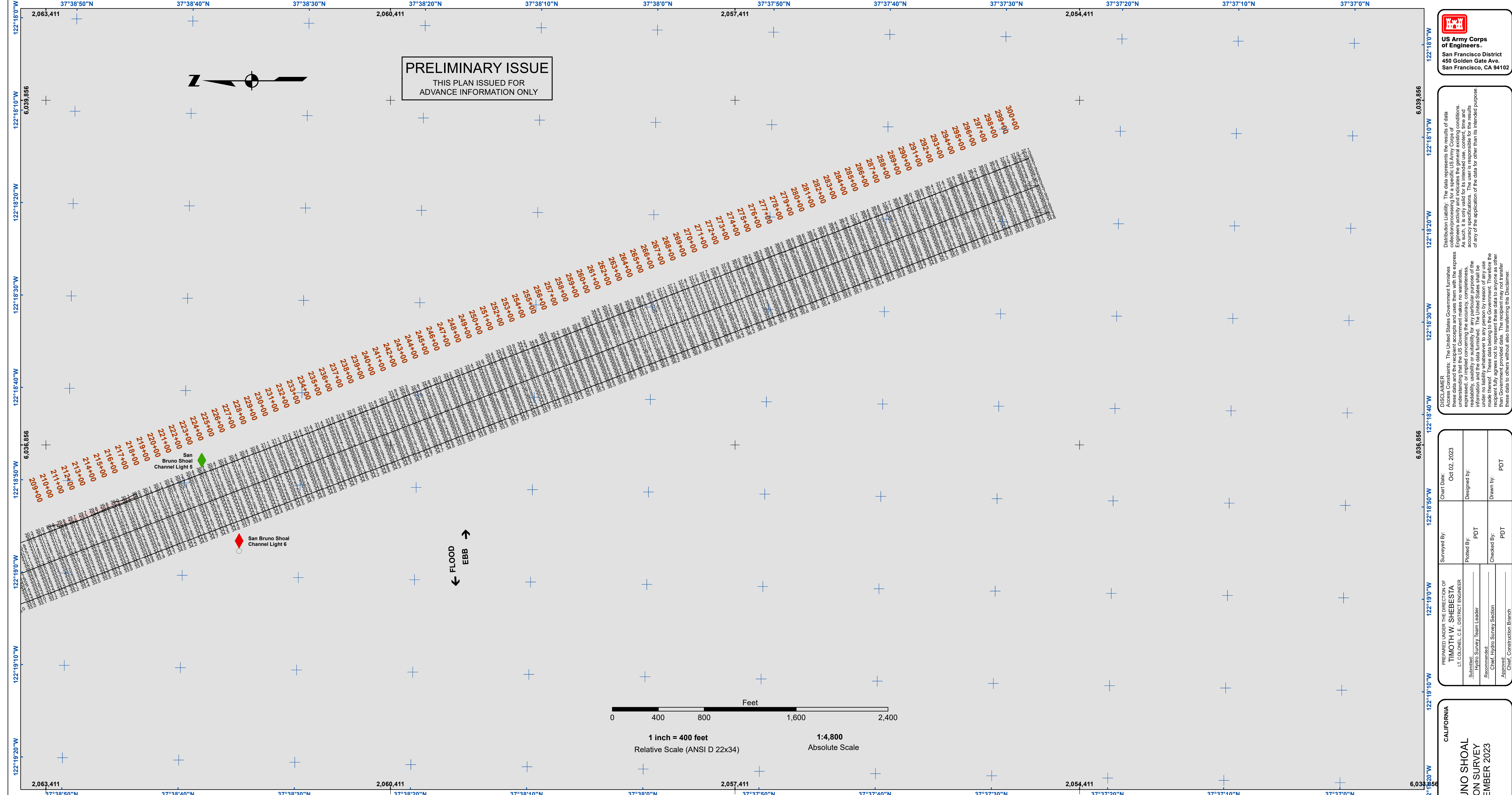
PREPARED UNDER THE DIRECTION OF  
**TIMOTHY W. SHEBESTA**  
 LT COLONEL, C.E., DISTRICT ENGINEER  
 San Bruno Shoal Channel Light 3  
 San Bruno Shoal Channel Light 4  
 Condition Survey  
 28 SEPTEMBER 2023



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

**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.  
 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.  
 SURVEYED BY THE CORPS OF ENGINEERS.  
 \*SHOALEST SOUNDING PER QUARTER PER REACH

SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH FOOT.  
 SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY.  
 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. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.  
 THE PROJECT DEPTH IS 30 FEET AT M.L.L.W.  
 CONTROL: SOUNDINGS ARE BASED ON THE TIDE GAUGE LOCATED AT THE HYDE STREET PIER, SAN FRANCISCO, CALIFORNIA.  
 CONTROL:  
 NOAA 941 4358  
 BM 'S 1941': 15.74 FT MLLW  
 HUNTERS POINT TIDE GAUGE: 13 FT MLLW  
 NAIL AND BRASS WASHER (ORANGE RIBBON ATTACHED) ON PILING AT SE CORNER OF PIER 80 NAIL LEVELED BY USACE ON 14 FEBRUARY 2016.  
 HORIZONTAL COORDINATES: POST PROCESSED RTK FROM LOCAL REFERENCE STATIONS



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

**US Army Corps of Engineers**  
San Francisco District  
450 Golden Gate Ave.  
San Francisco, CA 94102

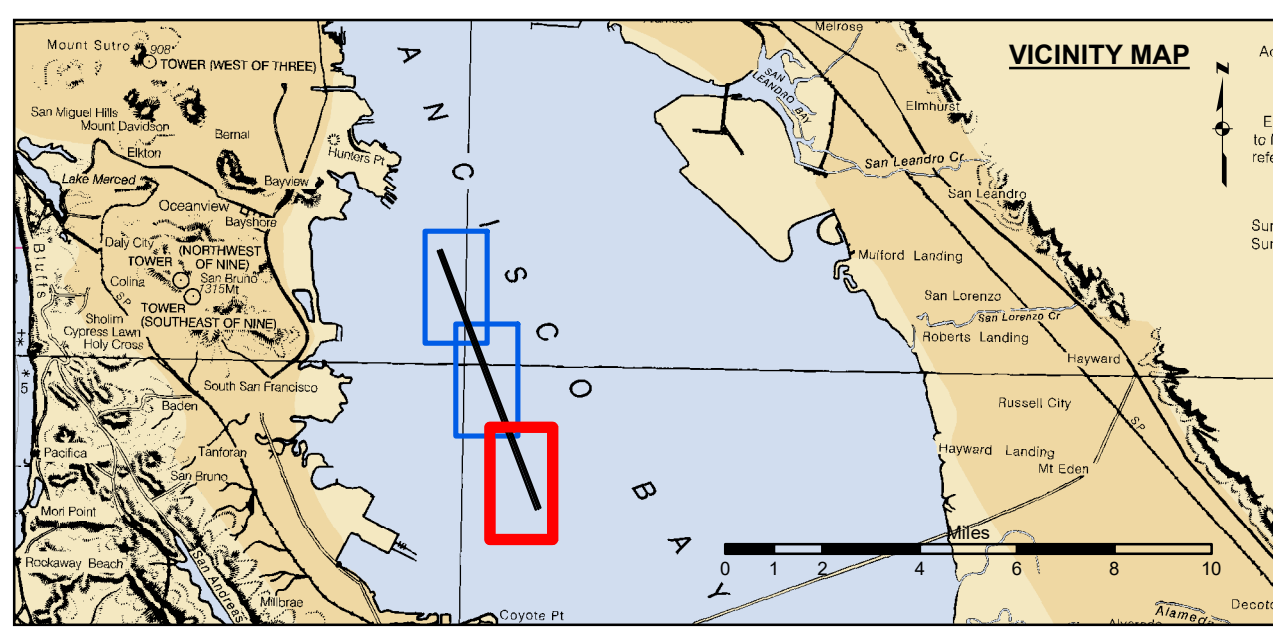
**DISCLAIMER**  
Access Constraints: The United States Government makes no warranty, expressed or implied, concerning the accuracy, completeness, or reliability of the information and the data furnished. The United States shall be under no liability whatsoever to any person by reason of any use made hereof. These data belong to the Government. Therefore the recipient may not transfer these data to others without also transferring this Disclaimer.

**Distribution Liability:** The data represents the results of data collection/processing for a specific US Army Corps of Engineers activity and indicates the general existing conditions accuracy specifications. The user is responsible for the results of any of the application of the data for other than its intended purpose.

Prepared Under the Direction of <b>TIMOTHY W. SHEBESTA</b> LT Colonel, C.E., District Engineer	Chart Date: Oct 02, 2023
Submitted: Hydro Survey Team Leader	Designed by: PDT
Recommended: Chief, Hydro Survey Section	Plotted by: PDT
Approved: Chief, Construction Branch	Checked by: PDT
	Drawn by: PDT

CALIFORNIA  
SAN MATEO COUNTY  
**SAN BRUNO SHOAL**  
CONDITION SURVEY  
28 SEPTEMBER 2023

**Sheet Reference Number**  
3 of 3



Federal Navigation Channel	Beacon, General	<b>Contours</b>
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.

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.

SURVEYED BY THE CORPS OF ENGINEERS.

\*SHOALEST SOUNDING PER QUARTER PER REACH

SOUNDING FOR THE CHANNEL MEASURED WITH MULTIBEAM ECHOSOUNDER AND ARE SHOWN TO THE NEAREST TENTH FOOT.

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

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. 253, PUBLISHED BY NATIONAL OCEAN SURVEY.

THE PROJECT DEPTH IS 30 FEET AT M.L.L.W.

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

CONTROL:  
NOAA 941 4358  
BM 'S 1941': 15.74 FT MLLW  
HUNTERS POINT TIDE GAUGE: 13 FT MLLW  
NAIL AND BRASS WASHER (ORANGE RIBBON ATTACHED) ON PILING AT SE CORNER OF PIER 80  
NAIL LEVELED BY USACE ON 14 FEBRUARY 2016.

HORIZONTAL COORDINATES: POST PROCESSED RTK FROM LOCAL REFERENCE STATIONS