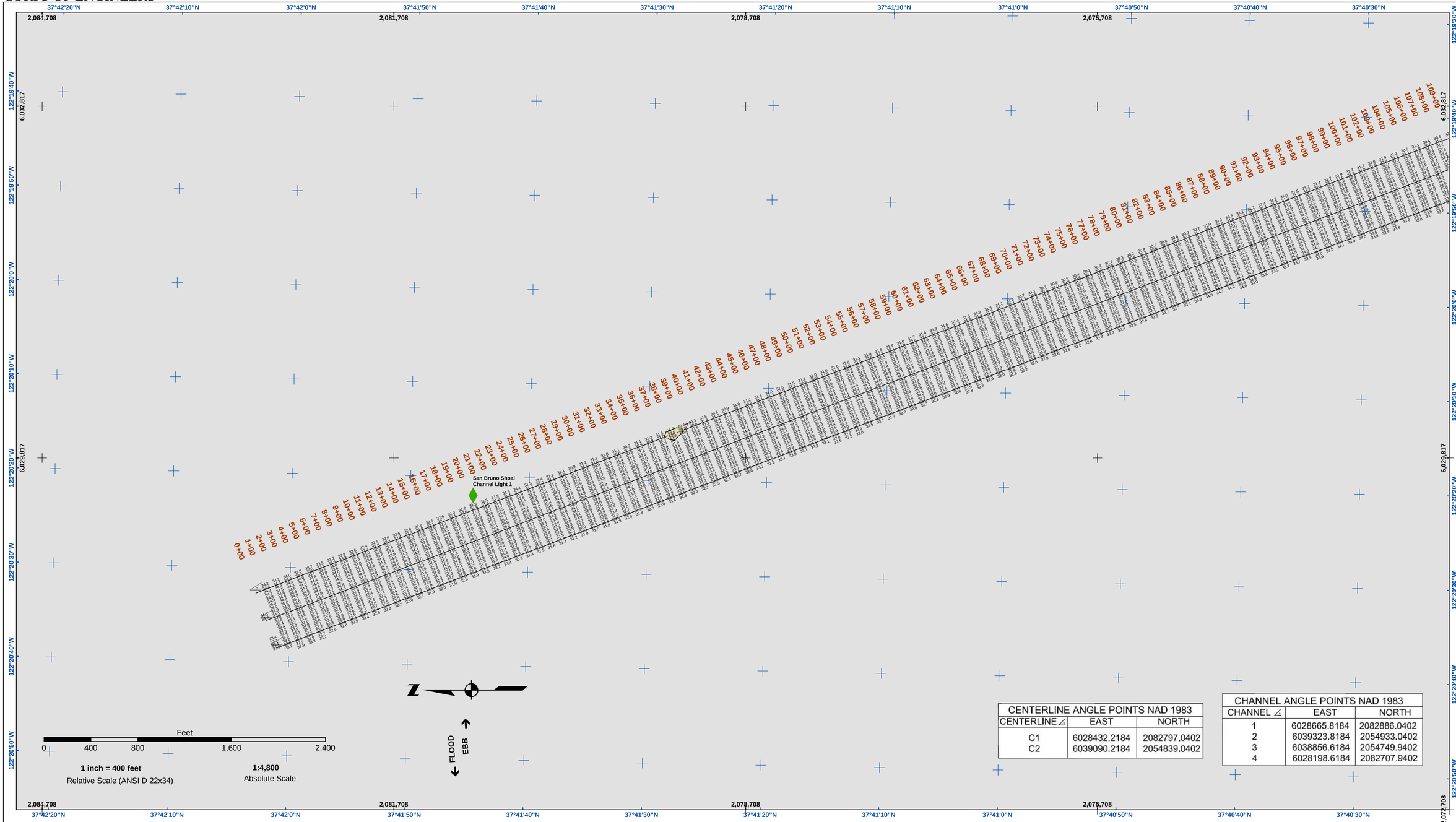
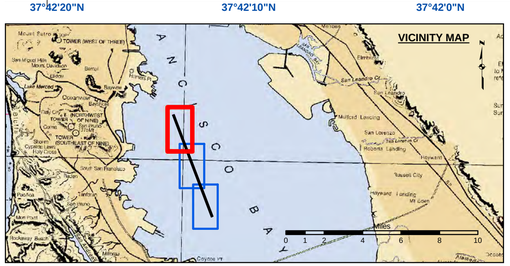


CENTERLINE ANGLE POINTS NAD 1983		
CENTERLINE ∠	EAST	NORTH
C1	6028432.2184	2082797.0402
C2	6039090.2184	2054839.0402

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
- Shoaling Area
- Placement Area
- Anchorage Area
- Wreck Area
- Submerged Wreck
- Angle Point
- Beacon, General
- Obstruction Point
- Navigation Buoy
- Navigation Buoy
- Shoalest Sounding*

Contours

-30
-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

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,

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

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

Chart Date: Jul 19, 2018			
Surveyed By:	Plotted By: PDT	Designed by:	Drawn by: PDT
			Checked By: PDT

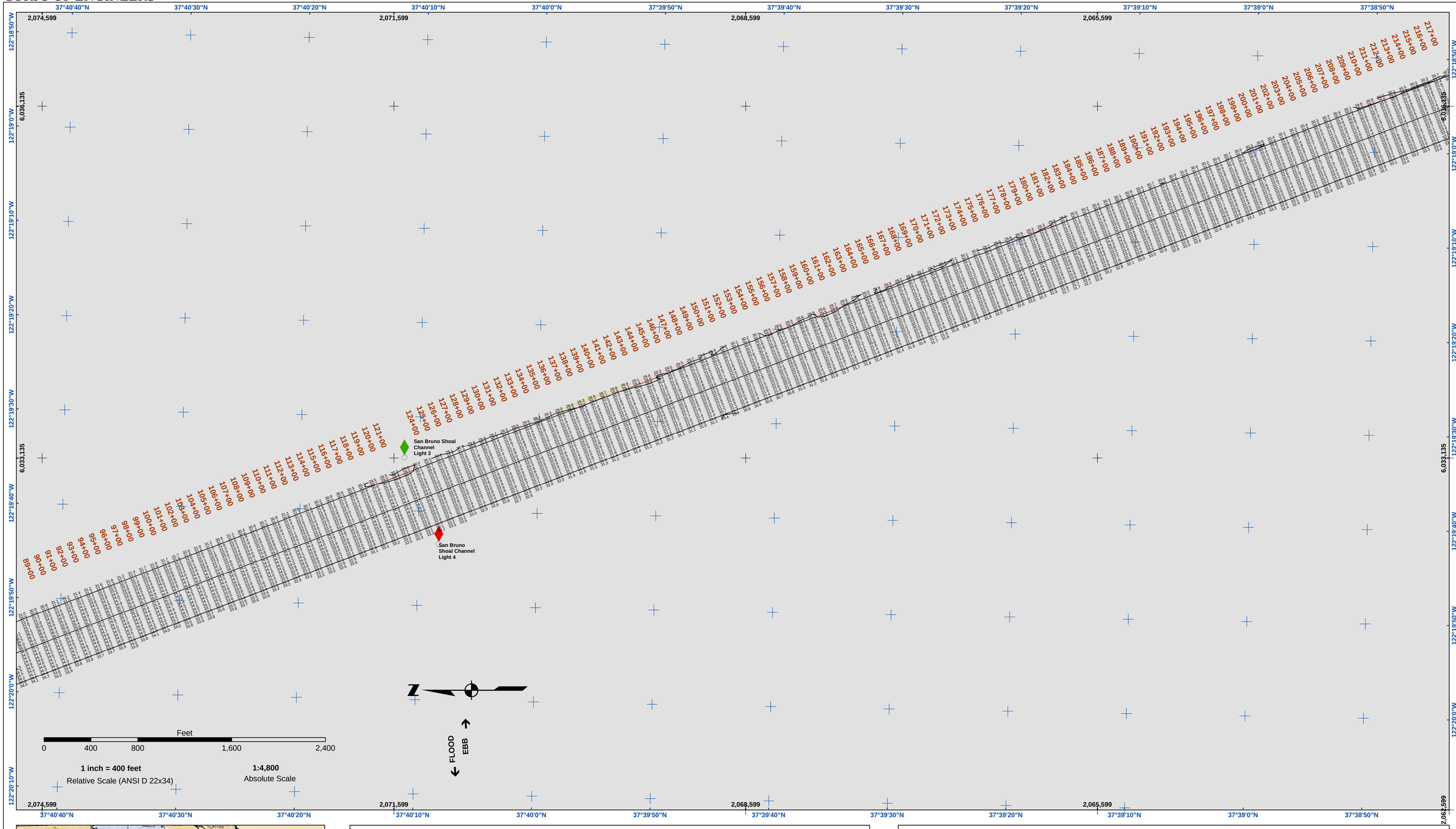
PREPARED UNDER THE DIRECTION OF
TRAVIS J. RAYFIELD
LT. COLONEL, C.E., DISTRICT ENGINEER

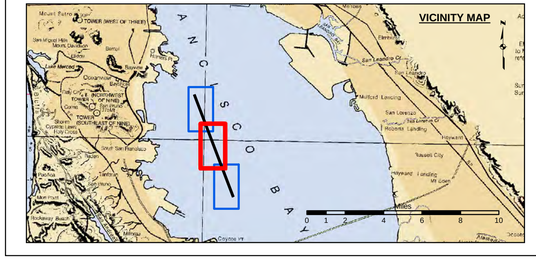
Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
SAN MATEO COUNTY

SAN BRUNO SHOAL
CONDITION SURVEY
11 JULY 2018

Sheet Reference Number
1 of 3





- 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*

Contours

-30
-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

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,

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 "5 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

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

Chart Date: Jul 19, 2018
Surveyed By:
Designed by:
Plotted By: PDT
Drawn by: PDT
Checked By: PDT

PREPARED UNDER THE DIRECTION OF
TRAVIS J. RAYFIELD
LT. COLONEL, C.E. DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader
Recommended: Chief, Hydro Survey Section
Approved: Chief, Construction Branch

CALIFORNIA
SAN MATEO COUNTY

SAN BRUNO SHOAL
CONDITION SURVEY
11 JULY 2018

Sheet Reference Number
2 of 3

CORPS OF ENGINEERS

U.S. ARMY

37°38'50"N 37°38'40"N 37°38'30"N 37°38'20"N 37°38'10"N 37°38'0"N 37°37'50"N 37°37'40"N 37°37'30"N 37°37'20"N 37°37'10"N 37°37'0"N

122°18'0"W 122°18'10"W 122°18'20"W 122°18'30"W 122°18'40"W 122°18'50"W 122°19'0"W 122°19'10"W 122°19'20"W

2,063,411 2,060,411 2,057,411 2,054,411 2,051,411

6,039,856 6,036,856

209+00 210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00 243+00 244+00 245+00 246+00 247+00 248+00 249+00 250+00 251+00 252+00 253+00 254+00 255+00 256+00 257+00 258+00 259+00 260+00 261+00 262+00 263+00 264+00 265+00 266+00 267+00 268+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00 296+00 297+00 298+00 299+00 300+00

San Bruno Shoal Channel Light 5

San Bruno Shoal Channel Light 6

FLOOD

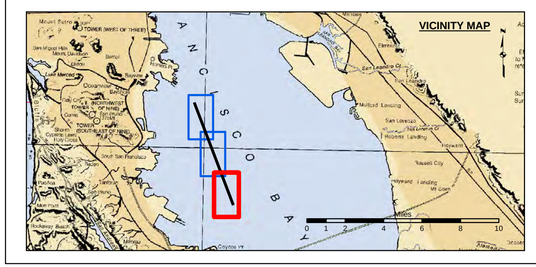
EBB

Feet

0 400 800 1,600 2,400

1 inch = 400 feet
Relative Scale (ANSI D 22x34)

1:4,800
Absolute Scale



- 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*

Contours

-30
-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

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,

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 "5 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

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

Chart Date: Jul 19, 2018		
Surveyed By:	Designed by:	Drawn by: PDT
	Plotted By: PDT	Checked By: PDT

PREPARED UNDER THE DIRECTION OF
TRAVIS J. RAYFIELD
LT. COLONEL, C.E., DISTRICT ENGINEER

Submitted: Hydro Survey Team Leader

Recommended: Chief, Hydro Survey Section

Approved: Chief, Construction Branch

CALIFORNIA
SAN MATEO COUNTY

SAN BRUNO SHOAL
CONDITION SURVEY
11 JULY 2018

Sheet Reference Number
3 of 3