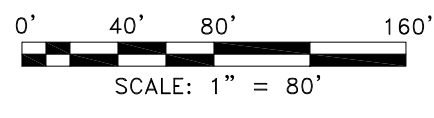


**SOUNDING CHART FOR NAVIGATION INTO
SAN FRANCISCO DRYDOCK
JUNE 2016**

CLIENT:
BAE SYSTEMS, INC.
FOOT OF 20th STREET
SAN FRANCISCO, CA 94107
(415) 861-7447



SCALE:
1" = 80'
DRAWING NO.
1 of 1
REV.
0



N 2,107,500'
E 6,018,000'

W 122-23-00
W 122-22-58
W 122-22-56
W 122-22-54
W 122-22-52
W 122-22-50
W 122-22-48

Abandoned Pier

GENERAL NOTES

- BATHYMETRY SURVEYED BY GAHAGAN & BRYANT ASSOCIATES, INC. ON JUNE 14, 2016. SURVEYS REPRESENT THE SEAFLOOR CONDITIONS ON THOSE DATES.
- SOUNDINGS ARE BASED ON MEAN LOWER LOW WATER VERTICAL DATUM, SOUNDING LOCATION AT DECIMAL POINT.
- PLANE GRID, BEARINGS AND COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, LAMBERT CONFORMAL PROJECTION, ZONE III (NA083), AS DESCRIBED IN SPECIAL PUBLICATION NO. 253 PUBLISHED BY THE NATIONAL OCEAN SURVEY.
- GBA SOUNDINGS WERE ACQUIRED BY A MULTIBEAM R2 SONIC 2024 ECHOSOUNDER WITH POS MV AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT. TIDAL OBSERVATIONS REFERENCED TO BENCHMARK "EE09", ELEV. = 11.66' MLLW LOCATED NEAR THE NORTHEAST CORNER OF PIER 3 AT THE SAN FRANCISCO DRYDOCK. BENCHMARK INFORMATION PROVIDED BY THE PORT OF SAN FRANCISCO.
- GBA HORIZONTAL POSITIONING SYSTEM USED IS NAVSTAR GPS WITH U.S. COAST GUARD DIFFERENTIAL BEACON.
- LOCATIONS OF PIERS, DOCKS, SHORELINE AND OTHER PLANIMETRICS ARE APPROXIMATE IN NATURE AND ARE BASED ON MAPS PROVIDED BY BAE SYSTEMS, INC.
- SURVEYS WERE PERFORMED TO MEET THE ACCURACY STANDARDS PRESCRIBED IN THE U.S. ARMY CORPS OF ENGINEERS MANUAL EM 1110-2-1003 (30 NOV 13) AS SPECIFIED FOR DEEP DRAFT NAVIGATION PROJECTS.
- BUOY INDICATED ON DRAWING BY A \diamond SYMBOL. COORDINATES ARE AS FOLLOWS:
X: 6,017,560 Y: 2,106,362
LAT N37-45-52.75 LONG W122-22-56.81

SOUNDINGS LEGEND

0.0' - 10.0'	35.1' - 40.0'
10.1' - 15.0'	40.1' - 45.0'
15.1' - 20.0'	45.1' - 50.0'
20.1' - 25.0'	50.1' +
25.1' - 30.0'	
30.1' - 35.0'	



ORIGINAL

I certify that the soundings displayed on this navigation chart are from a hydrographic survey performed by me and under my direct supervision, using accuracy standards defined by the U.S. Army Corps of Engineers Manual, EM 1110-2-1003 (30 NOV 13) as specified for deep draft navigation projects.

Signed: *Richard A. Olejniczak* Date 06/17/16
Richard A. Olejniczak, CH, PE CE44118

SAN FRANCISCO BAY

