

NOTES:

1.

Vertical Datum: Mean Lower Low Water (MLLW) Feet
2.

Coordinate system: HI State Plane Zone 4 US Feet
3.

Vertical Control:
- 3.a.

Description: NGS Benchmark Tidal 1347B
- 3.b.

Elevation 10.8 ft
4.

Horizontal Control:
- 4.a.

Description: NGS Benchmark Tidal 1347B
- 4.b.

Easting: 1,610,551.32 US feet
- 4.c.

Northing: 24,207.17 US feet
5.

Hydrographic Survey Dates: 09-18-2026
6.

Survey Equipment:
- 6.a.

Sonar: R2 Sonic 2020
- 6.b.

Heading: Septentrio dual-antenna GNSS receiver for RTK and PPP
- 6.c.

Position: Septentrio dual-antenna GNSS receiver for RTK and PPP
- 6.d.

Position: Leica GS16/GS18/CS20 GNSS RTK GPS System
- 6.e.

Motion: SBG Ekinox-E Navsight inertial navigation system (INS)
- 6.f.

SVP: AML Micro SV sound velocity probe on sonar; AML SV profiler for manual cast
- 6.g.

Lidar: Velodyne VLP-16 Puck
- 6.h.

Software: Hypack 2023
7.

Contours generated from 1x1 ft grid averaged elevation. The contour interval is 1.0 ft.
8.

Color bathymetric imagery generated from 0.5x 0.5 ft grid average cells
9.

Data represent seafloor elevation at the time of survey.
Seafloor elevation may change at any time following the time of the survey.
10.

Elevations may vary between sounding locations.
11.

Survey performed to standards of the U.S. Army Corps of Engineers
Hydrographic Surveying Manual EM-1110-2-1003.
12.

Labeled debris estimates from sonar imagery and should be confirmed visually.

REVISION	DATE

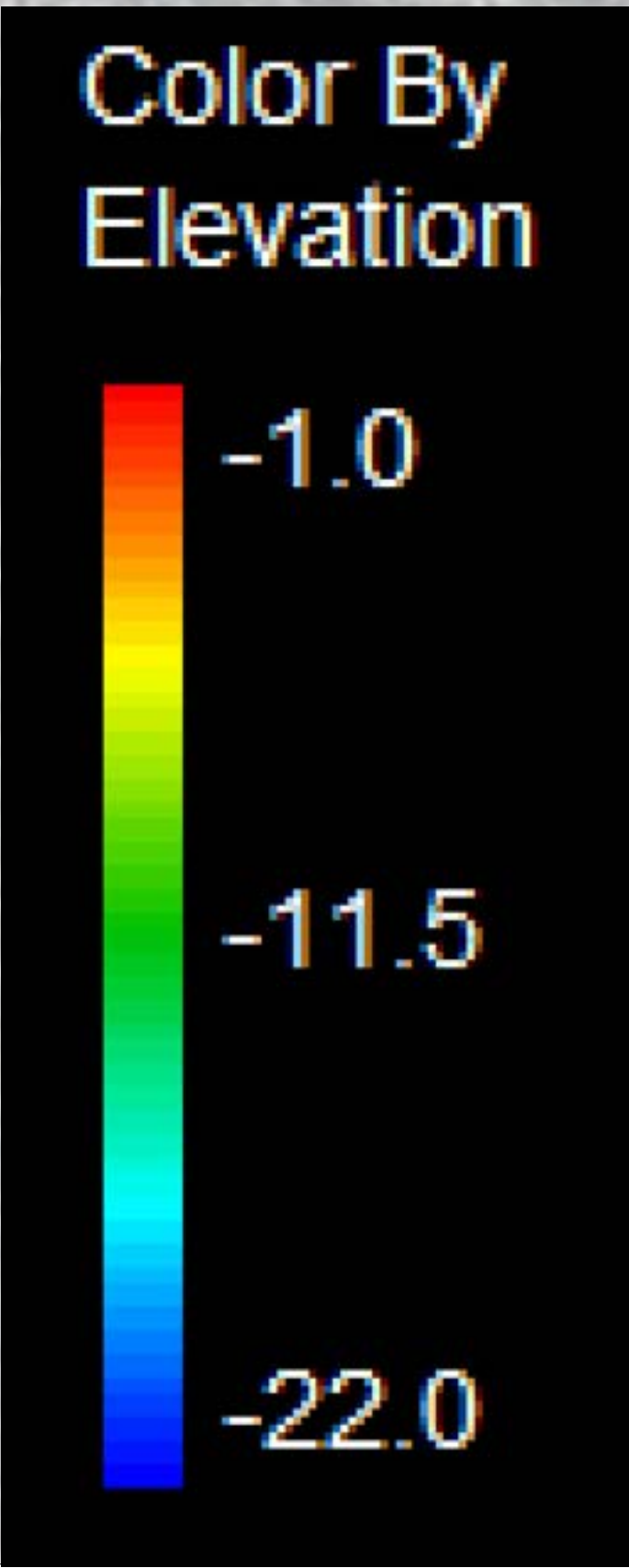
PORT ALLEN SBH
BATHYMETRY
'ELE'ELE, HI

PROJECT NUMBER: 250156
CLIENT: DOBAR

SCALE: 1"=30'
SHEET SIZE: 34" x22"
DATE: OCT 15, 2026

MULTIBEAM
SURVEY

DRAWING NO.:
SHEET NO.:



NOTES:

1. REMOVE AND DISPOSE ALL DEBRIS/OBJECTS IDENTIFIED AS 'POSSIBLE DEBRIS', 'PROBABLE SUNKEN PIER', AND 'PARTIALLY SUBMERGED SAILBOAT'.
2. REMOVAE ALL DEBRIS THAT IS NOT LABELED OR IDENTIFIED FOUND AT A DEPTH OF 10' AND SHALLOWER.
3. DEBRIS LOCATED AT 10' DEPTH OR DEEPER SHALL REMAIN IN PLACE UNLESS DIRECTED OTHERWISE OR SHOWN ON OTHER DOCUMENTS IN THE SOLICITATION.
4. 'POSSIBLE DISPLACED ARMOR STONES' LOCATED AT 10' DEPTH OR SHALLOWER SHALL BE MOVED TO THE NEAREST TOE OF THE BREAKWATER STRUCTURE.

