



FILE: H:\mof\Y18-Hydro\Haleiwa\18HA01\_VH101.dgn  
 PLOTDRIVER: C:\ProgramData\Bentley\MicroStation V8i (SELECT series)\WorkSpace\System\pltrdrv.plt  
 MODEL NAME: VH-101  
 PEN TABLE: BW\_and\_GrayScale\_Pen.tbl  
 DATE & TIME: 7/6/2018 2:10:22 PM  
 LAST SAVED BY: User\$

**LEGEND**

PRIMARY CONTROL POINT ——— BENCHMARKS ———  
 COORDINATED SURVEY POINT ——— GAGES STAFF ——— RECORDING ———  
 UNCOORDINATED SURVEY POINTS ———  
 DREDGING RANGES FRONT ——— REAR ———  
 RIVER MILEAGE FROM MOUTH ———

**AIDS TO NAVIGATION**

LIGHTHOUSES ———  
 LIGHTS ———  
 LIGHTED RANGES ———  
 LIGHTED BUOYS ———  
 UNLIGHTED BUOYS ———  
 DAYBEACONS ———  
 SEASONAL LIGHTS AND LIGHTED DREDGING RANGES ———

**NOTES:**

DEPTHS TAKEN FROM HYDROGRAPHIC CONDITION SURVEY USING MULTIBEAM SONAR BY PORTLAND DISTRICT ON 09 MAY 2018. THE PORTLAND DISTRICT SURVEY WAS TRANSFORMED FROM NAD 83 HAWAII STATE PLANE ZONE 3 TO NAD 83 HARN HAWAII STATE PLANE ZONE 3 FOR ANALYSIS. DIMENSIONS ARE GIVEN IN U.S. SURVEY FEET. VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW). THE LOCAL TIDAL DATUM IS REFERENCED TO THE MOST RECENT EPOCH (1983-2001).

SOUNDINGS ARE SHOWN IN FEET AND INDICATE DEPTHS BELOW MLLW. 1983-2001 EPOCH. ELEVATIONS ARE SHOWN THUS +2, INDICATING HEIGHT IN FEET ABOVE MLLW.

LONGITUDE/LATITUDE IS REFERENCED TO NAD 83 HARN (1993).

THIS CHART IS INTENDED FOR DREDGING PURPOSES ONLY.

THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.

**FEDERAL PROJECT LIMITS**

PT	NORTHING	EASTING
1	155803.19	1604469.40
2	155654.28	1604383.28
3	155427.26	1604465.73
4	155137.93	1604475.64
5	155133.82	1604355.71
6	155404.17	1604346.45
7	155666.00	1604251.39
8	155863.28	1604365.50

**FEDERAL PROJECT B/L**

PT	NORTHING	EASTING
9	155833.23	1604417.46
10	155660.10	1604317.34
11	155415.72	1604406.10
12	155135.89	1604415.68

**CUT VOLUMES:**

FT<sup>3</sup> TOTAL: 43206  
 YD<sup>3</sup> TOTAL: 1600

BM "TIDAL 4"  
 ELEV= 5.11 FT MSL  
 N:154,884.95  
 E:1,604,272.77  
 LAT: 21°35'34.8409"  
 LONG: 158°6'22.9903"

THE EXISTING PROJECT:

PROVIDES FOR A 740' LONG ENTRANCE CHANNEL 12' DEEP AND 120' IN WIDTH.

**GRAPHIC SCALE**

50 0 50 100

SCALE IN FEET

NOTE: ALL UNITS ARE IN U.S. SURVEY FEET (FT) UNLESS INDICATED OTHERWISE.

US Army Corps of Engineers  
 HONOLULU DISTRICT

MARK	DESCRIPTION	DATE	APPR.	DATE	APPR.

DESIGNED BY: J. PODOSKI  
 DRAWN BY: J. PODOSKI  
 CHECKED BY: J. PODOSKI  
 SUBMITTED BY: THOMAS D. SMITH, P.E.  
 PLOT SCALE: 1"=100'  
 FILE NUMBER: 09/11/2018  
 FILE NAME: 18HA01\_VH101.DGN

ISSUE DATE: 09/11/2018  
 SOLICIT / CONTRACT NO.: PRECONSTRUCTION  
 LOCATION NO.:  
 CIVIL WORKS TECHNICAL BRANCH  
 BUILDING 230  
 FORT SHAFTER, HAWAII

HALEIWA SMALL BOAT HARBOR  
 CONDITION SURVEY  
 HALEIWA, ISLAND OF OAHU

SITE PLAN &  
 SURVEY NOTES

SHEET IDENTIFICATION  
**VH101**  
 SHEET 1 OF 3