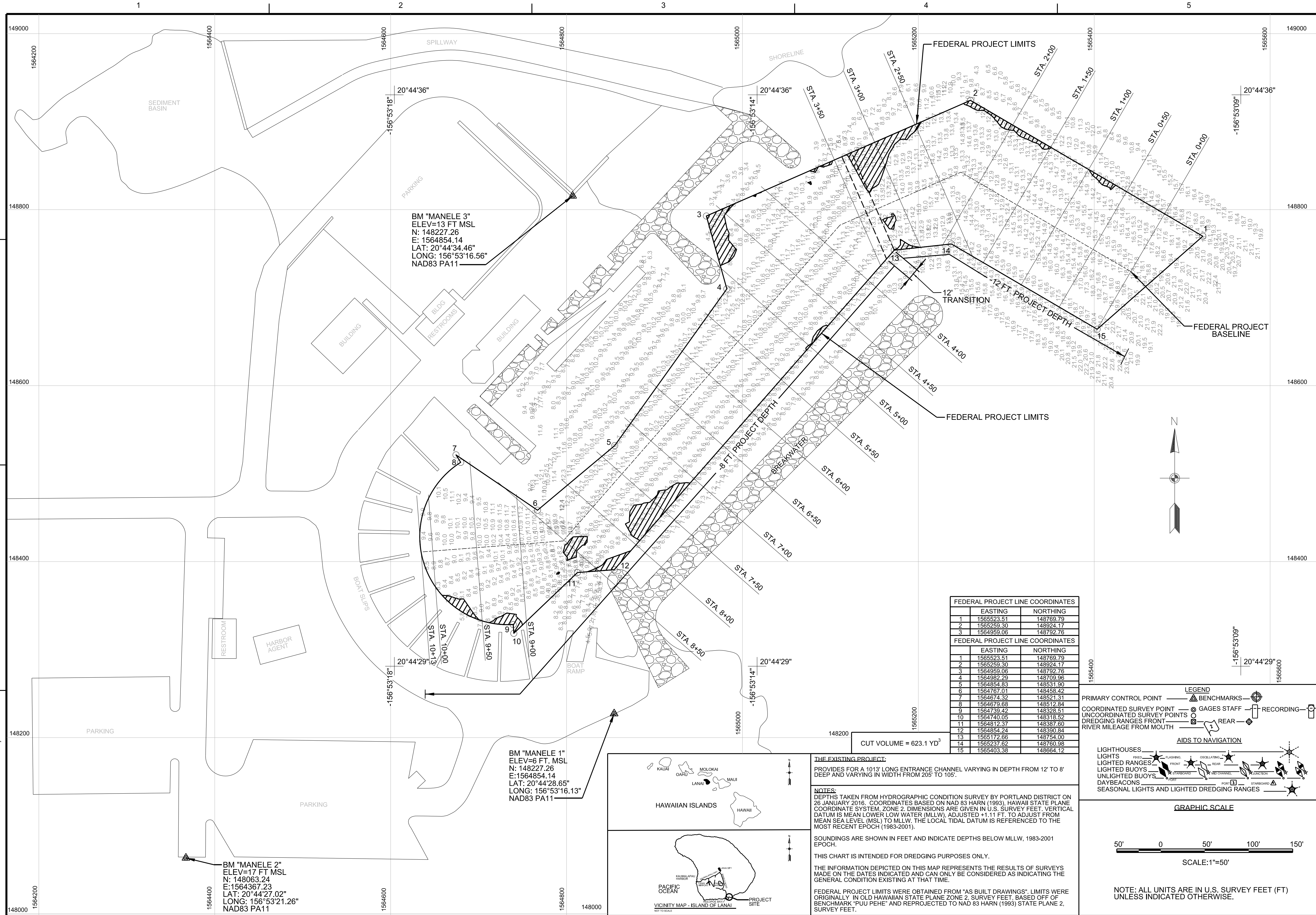
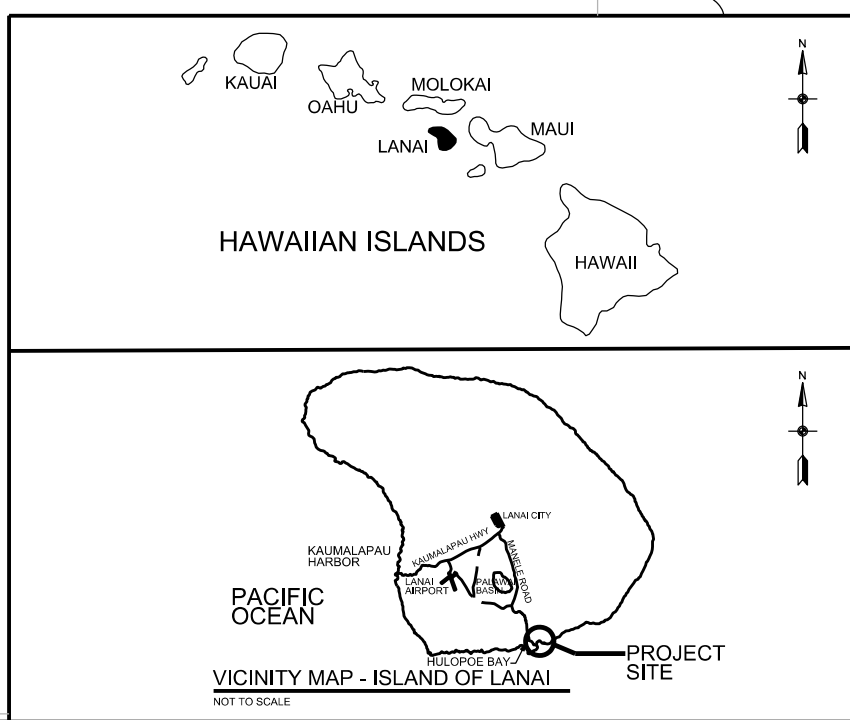


FILE: H:\mof\FY16-Hydro\Maneke_SBR\HMA016_VH101_20160523.dgn
 PLOTDRIVER: C:\ProgramData\Bentley\PowerInRoads V8i (SELECTseries 4)\WorkSpace\System\pltrig\pdr.plt
 MODEL NAME: ANSID
 PEN TABLE: BW_and_Grayscale_Pen.tbl
 DATE & TIME: 5/23/2016 2:36:04 PM
 LAST SAVED BY: Bechmds



FEDERAL PROJECT LINE COORDINATES		
	EASTING	NORTHING
1	1565253.51	148769.76
2	1565253.30	148924.17
3	1564959.06	148792.76
4	1564982.29	148709.96
5	1564854.83	148531.90
6	1564767.01	148458.42
7	1564674.32	148521.31
8	1564679.88	148512.84
9	1564739.42	148328.51
10	1564740.05	148318.52
11	1564812.37	148387.60
12	1564854.24	148390.84
13	1565172.66	148754.00
14	1565237.62	148760.98
15	1565403.38	148664.12

FEDERAL PROJECT LINE COORDINATES		
	EASTING	NORTHING
1	1565253.51	148769.79
2	1565253.30	148924.17
3	1564959.06	148792.76
4	1564982.29	148709.96
5	1564854.83	148531.90
6	1564767.01	148458.42
7	1564674.32	148521.31
8	1564679.88	148512.84
9	1564739.42	148328.51
10	1564740.05	148318.52
11	1564812.37	148387.60
12	1564854.24	148390.84
13	1565172.66	148754.00
14	1565237.62	148760.98
15	1565403.38	148664.12



THE EXISTING PROJECT:
 PROVIDES FOR A 1013' LONG ENTRANCE CHANNEL VARYING IN DEPTH FROM 12' TO 8' DEEP AND VARYING IN WIDTH FROM 205' TO 105'.

NOTES:
 DEPTHS TAKEN FROM HYDROGRAPHIC CONDITION SURVEY BY PORTLAND DISTRICT ON 28 JANUARY 2016. COORDINATES BASED ON NAD 83 HARN (1993) HAWAII STATE PLANE COORDINATE SYSTEM, ZONE 2. DIMENSIONS ARE GIVEN IN U.S. SURVEY FEET. VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW), ADJUSTED +1.11 FT. TO ADJUST FROM MEAN SEA LEVEL (MSL) TO 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.

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 WERE OBTAINED FROM "AS BUILT DRAWINGS". LIMITS WERE ORIGINALLY IN OLD HAWAIIAN STATE PLANE ZONE 2, SURVEY FEET. BASED OFF OF BENCHMARK 'PUU PEHE' AND REPROJECTED TO NAD 83 HARN (1993) STATE PLANE 2, SURVEY FEET.

LEGEND

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

AIDS TO NAVIGATION

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

GRAPHIC SCALE

50' 0 50' 100' 150'

SCALE: 1"=50'

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

US Army Corps of Engineers®

ISSUE DATE: SOLICIT / CONTRACT NO.:
 DESIGNED BY: CIVIL WORKS TECHNICAL BRANCH
 DRAWN BY: HONOLULU DISTRICT
 CHECKED BY: FORT SHAFTER, HI
 SUBMITTED BY: FILE NUMBER:
 PLOT SCALE: PLOT DATE: 5/23/2016
 FILE NAME: MAND16_VH101.DGN
 SIZE: ANSID

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION	DATE	APPR.

**MANEKE SMALL BOAT HARBOR
 CONDITION SURVEY
 LANAI, HAWAII**

**SIGHT PLAN, SURVEY
 NOTES & SOUNDINGS**
 26 JANUARY 2016

**SHEET IDENTIFICATION
 VH101**
 SHEET 1 OF 4