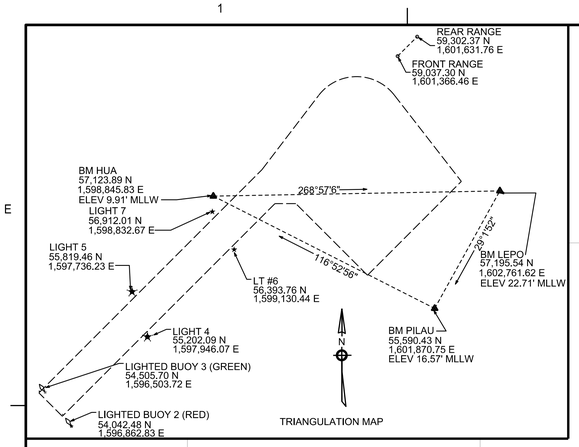

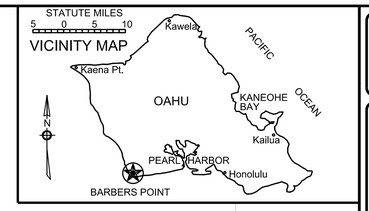

US Army Corps of Engineers®
Honolulu District

ENTRANCE CHANNEL REAR RANGE LT

ENTRANCE CHANNEL FRONT RANGE LT

SHORE LINE

WEST BEACH MARINA

TRANSITION AREA

38 FT. PROJECT DEPTH

42 FT. PROJECT DEPTH

BM xxx
55,590.435 N
1,601,870.751 E
16.57' MLLW

LT "7"

EXISTING INSHORE CHANNEL
38 FT DEPTH, 450' WIDE

EXISTING HARBOR BASIN
38 FT DEPTH

FEDERAL PROJECT LINE

NON-FEDERAL HARBOR EXPANSION AREA

BM LEPO
57,195,543 N
1,602,761,619 E
22.71' MLLW

NON-FEDERAL BERTHING AREA "A"

EXISTING BARGE BASIN

LT "6"

OFFICE/WAREHOUSE BUILDING

NON-FEDERAL BERTHING AREA "B"

PIERS P5 AND P6

NON-FEDERAL PROJECT LINE

PAVED STORAGE

CAMPBELL INDUSTRIAL PARK

HARBOR AGENT OFFICE

BM PILAU
55,590.435 N
1,601,870.751 E
16.57' MLLW

MALAKOLE ROAD

PACIFIC OCEAN

LIGHT "5"

EXISTING ENTRANCE CHANNEL
42 FT DEPTH 450' WIDE

LIGHT "4"

FEDERAL PROJECT LINE

LIGHTED BUOY 3 GREEN

LIGHTED BUOY 2 RED

SHORE LINE

21° 19' 50"
21° 19' 40"
21° 19' 30"
21° 19' 20"
21° 19' 10"
21° 19' 00"
21° 18' 50"
-158° 07' 50"
-158° 07' 40"
-158° 07' 30"
-158° 07' 20"
-158° 07' 10"
-158° 07' 00"
-158° 06' 50"
-158° 06' 40"
1,596,000 E
1,597,000 E
1,598,000 E
1,599,000 E
1,600,000 E
1,601,000 E
1,602,000 E
1,603,000 E
59,000 N
58,000 N
57,000 N
56,000 N
55,000 N

FEDERAL PROJECT LINE COORDINATES		
	EASTING	NORTHING
1	1,596,478.71	54,450.21
2	1,599,505.08	57,477.07
3	1,600,274.55	58,485.28
4	1,601,299.51	58,489.67
5	1,602,209.25	57,318.81
6	1,600,936.92	56,045.27
7	1,599,984.68	57,017.48
8	1,599,681.84	57,017.45
9	1,596,796.91	54,132.03

BARBERS POINT NAVIGATION AIDS		
AID NAME	LATITUDE	LONGITUDE
BARBERS PT HBR ENT CH LB 2	21°18'55.404"	-158°07'40.668"
BARBERS PT HBR ENT CH LB 3	21°19'00.000"	-158°07'45.200"
BARBERS PT HBR ENT CH LT 7	21°19'23.809"	-158°07'19.817"
BARBERS PT HBR ENT CH LT 4	21°19'07.645"	-158°07'28.345"
BARBERS PT HBR ENT CH LT 5	21°19'13.376"	-158°07'30.829"
BARBERS PT HBR ENT CH LT 6	21°19'19.075"	-158°07'16.076"
BARBERS PT HBR ENT CH RF LT	21°19'44.897"	-158°06'53.039"
BARBERS PT HBR ENT CH RR LT	21°19'47.526"	-158°06'50.236"
BARBERS PT LT	21°17'46.901"	-158°06'22.239"

(*PLOTS OFF-CHART)

CONDITION SURVEY

NOTES

APPROX. BANKLINE DIGITIZED FROM "ALL_HAWAII2.XWMS".

DEPTHS TAKEN FROM HYDROGRAPHICS SURVEY COMPLETED BY U.S. ARMY CORPS OF ENGINEERS, PORTLAND DISTRICT ON 23 APRIL, 2016.

COORDINATES BASED ON NAD 83 HARN (1993), HAWAII STATE PLANE COORDINATE SYSTEM, ZONE 3, U.S. SURVEY FEET.

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 INDICATED DEPTHS BELOW MLLW. ELEVATIONS ARE SHOWN THUS: +2, INDICATING HEIGHT IN FEET ABOVE MLLW. THE MLLW PLANE IS SHOWN THUS:
THE PROJECT DEPTH CURVE IS SHOWN THUS:

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.

THE EXISTING PROJECT

PROVIDES FOR AN ENTRANCE CHANNEL 450 FEET WIDE AND VARYING FROM 42 FEET TO 38 FEET DEEP; AND A BASIN OF VARYING WIDTH AND 38 FEET IN DEPTH.

LEGEND

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

AIDS TO NAVIGATION

LIGHTHOUSES
LIGHTS — FIXED, FLASHING, OSCILLATING
LIGHTED RANGES — FRONT, REAR
LIGHTED BUOYS — STARBOARD, RED CHANNEL, JUNCTION
UNLIGHTED BUOYS — PORT, STARBOARD
DAYBEACONS — PORT 3, STARBOARD
SEASONAL LIGHTS AND LIGHTED DREDGING RANGES

PROJECTION: HAWAII STATE PLANE ZONE 3 (US SURVEY FEET)
HORIZONTAL DATUM: NAD83 HARN (1993)
VERTICAL DATUM: LOCAL TIDAL DATUM - MLLW (1983-2001)

BM NAME	NORTHING	EASTING	MLLW (FT)
HUA	57,123,893	1,598,845,829	9.91
PILAU	55,590,435	1,601,870,751	16.57
LEPO	57,195,543	1,602,761,619	22.71

GRAPHIC SCALE
200 0 200 400 600
SCALE:1"=200'

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

MARK	DESCRIPTION	DATE	APPR.	MARK	DESCRIPTION

DESIGNED BY:	DATE:
DRAWN BY:	CHECKED BY:
SUBMITTED BY:	SOLICIT./CONTRACT NO.:
PLOT SCALE: 1:2400	PLOT DATE: 9/26/2016
SIZE: ANSI E	LOCATION CODE
FILE NAME:	DRAWING NUMBER:

U.S. ARMY CORPS OF ENGINEERS
HONOLULU DISTRICT
FT SHAFTER, HAWAII

CIVIL WORKS TECHNICAL BRANCH
CEPOH-EC-T
BUILDING 230
FORT SHAFTER, HAWAII

FY16 HYDROSURVEYS
BARBERS POINT HARBOR
CONDITION SURVEY
OAHU, HAWAII

SITE PLAN, SURVEY
NOTES & SOUNDINGS
03 FEBRUARY 2016

SHEET IDENTIFICATION
VH101
SHEET 1 OF 1

FILE: H:\cmo\FY16-HydroBarbers_Pdxh_DDH\BP_PostDredge\16BP01_VH101xxx_INPROGRESS.dgn
MODEL NAME: Sheet
DATE & TIME: 9/26/2016 1:34:43 PM
LAST SAVED BY:
PLOTDRIVER: C:\Program Data\Bentley\MicroStation V8\SELECTseries\WorkSpace\Systems\hydcgcd.pltdg
PEN TABLE: BW_and_Greyscale_Pen.tbl
PRINTED BY: 3kedlcgd