

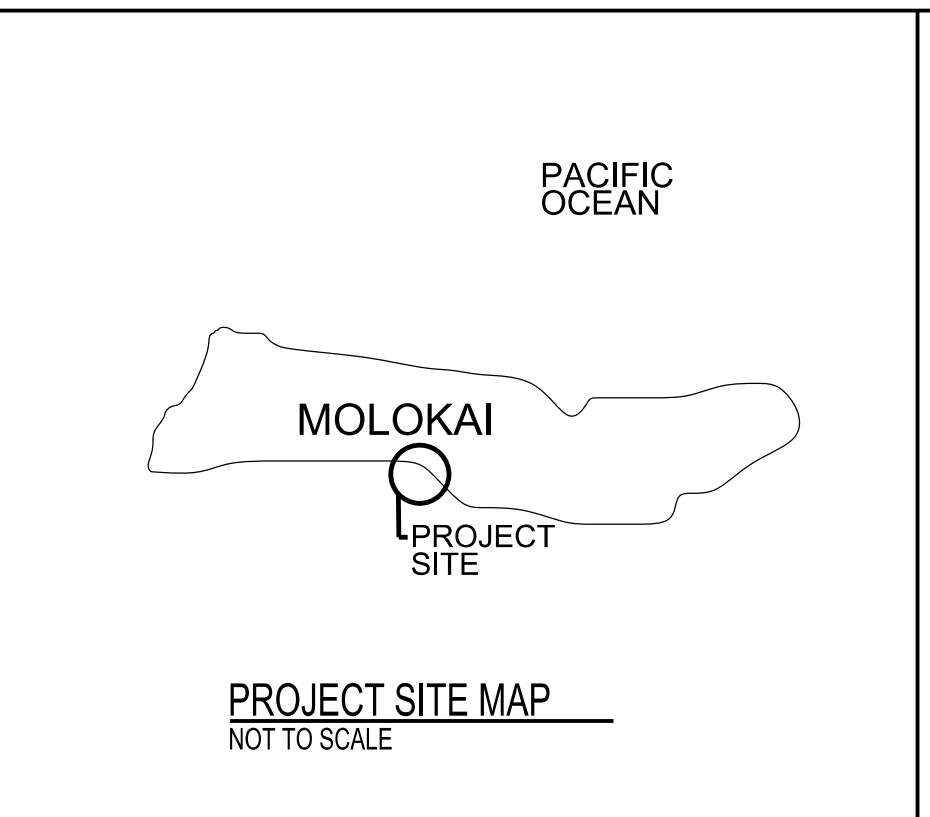
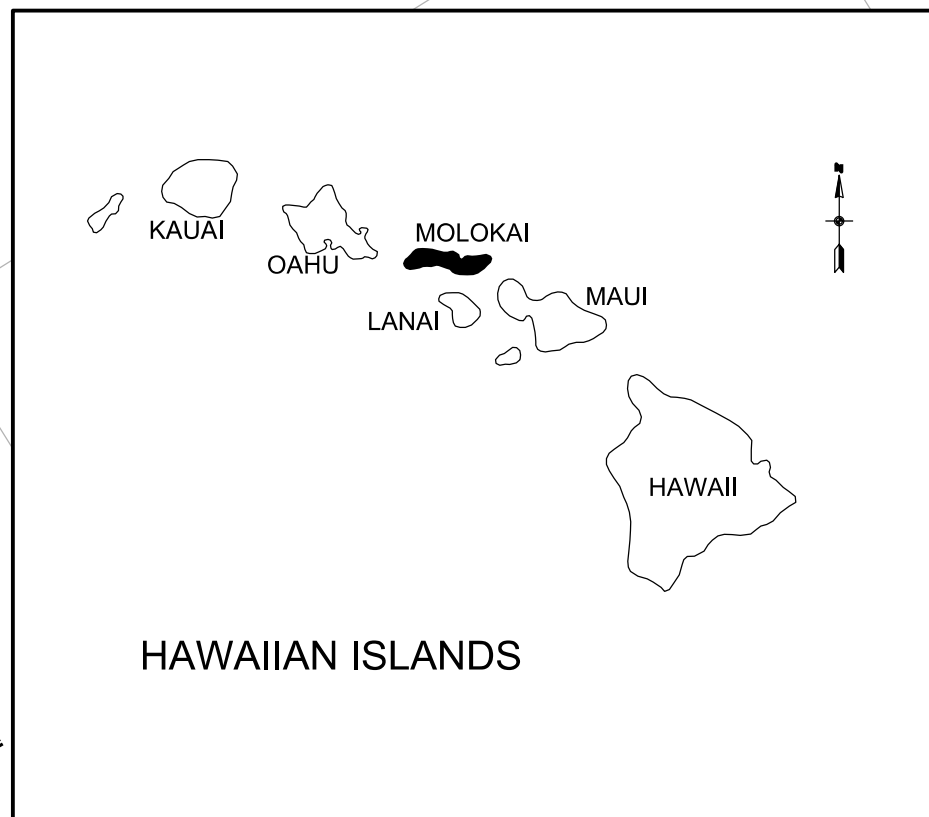
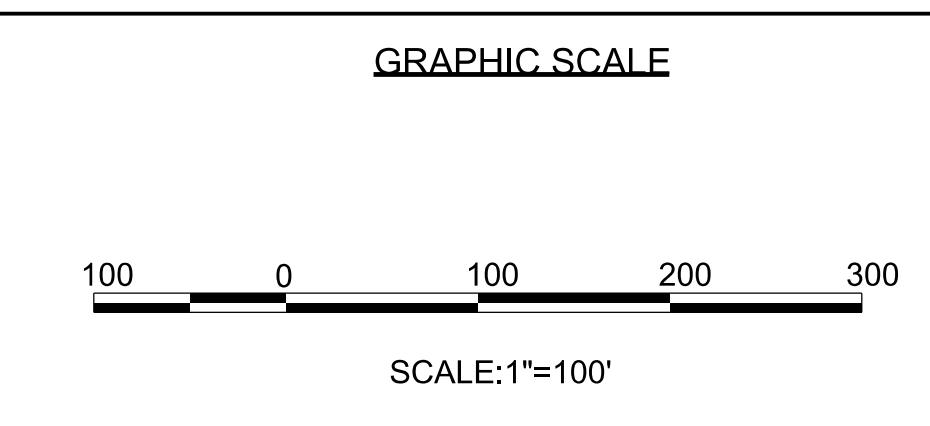
STA. 161 3198 B  
ELEV.=4.55 FT. (MLLW)  
N 272329.47  
E 1517461.55  
LAT: 21°04'57.73"  
LONG: 157°01'38.35"

STA. 161 3198 (UNSTAMPED)  
ELEV.=4.29 FT. (MLLW)  
N 272109.04  
E 1517350.37  
LAT: 21°04'55.55"  
LONG: 157°01'39.52"

STA. 161 3198 A  
ELEV.=6.36 FT. (MLLW)  
N 272148.20  
E 1517163.55  
LAT: 21°04'51.93"  
LONG: 157°01'41.49"

FEDERAL PROJECT LIMIT COORDINATES		
LOCATION	EASTING	NORTHING
POINT 1	1516435.94	271023.61
POINT 2	1517262.72	272328.92
POINT 3	1516840.30	272596.43
POINT 4	1516702.58	272565.51
POINT 5	1515956.61	271387.77

CUT VOLUME = 22,069 CY  
THE EXISTING PROJECT PROVIDES FOR AN ENTRANCE CHANNEL OF 23 FEET DEEP.



LEGEND

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

AIDS TO NAVIGATION

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

NOTES:  
APPROXIMATED BANKLINE DIGITIZED FROM 2013 PHOTOGRAPHY. DEPTHS TAKEN FROM HYDROGRAPHIC CONDITION SURVEY BY PORTLAND DISTRICT ON 14 JANUARY 2020. COORDINATES BASED ON NAD 1983 PA11, HAWAII STATE PLANE HAWAII ZONE 2, FEET COORDINATE SYSTEM. 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 "-21.5", INDICATING HEIGHT IN FEET ABOVE OR BELOW 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.

DESIGNED BY:	ISSUE DATE:
DRAWN BY:	SOLICITATION NO.:
CHECKED BY:	CONTRACT NO.:
ASSEMBLED BY:	
AS SHOWN:	
SCALE:	
PAGE:	

U.S. ARMY CORPS OF ENGINEERS  
HONOLULU DISTRICT  
FT SHAFTER, HAWAII  
CIVIL WORKS TECHNICAL BRANCH  
GEOTECH-1  
FORT SHAFTER, HAWAII

KAUNAOA HARBOR  
MOLOKAI, HAWAII  
SITE PLAN &  
SURVEY NOTES

SHEET ID  
VH101