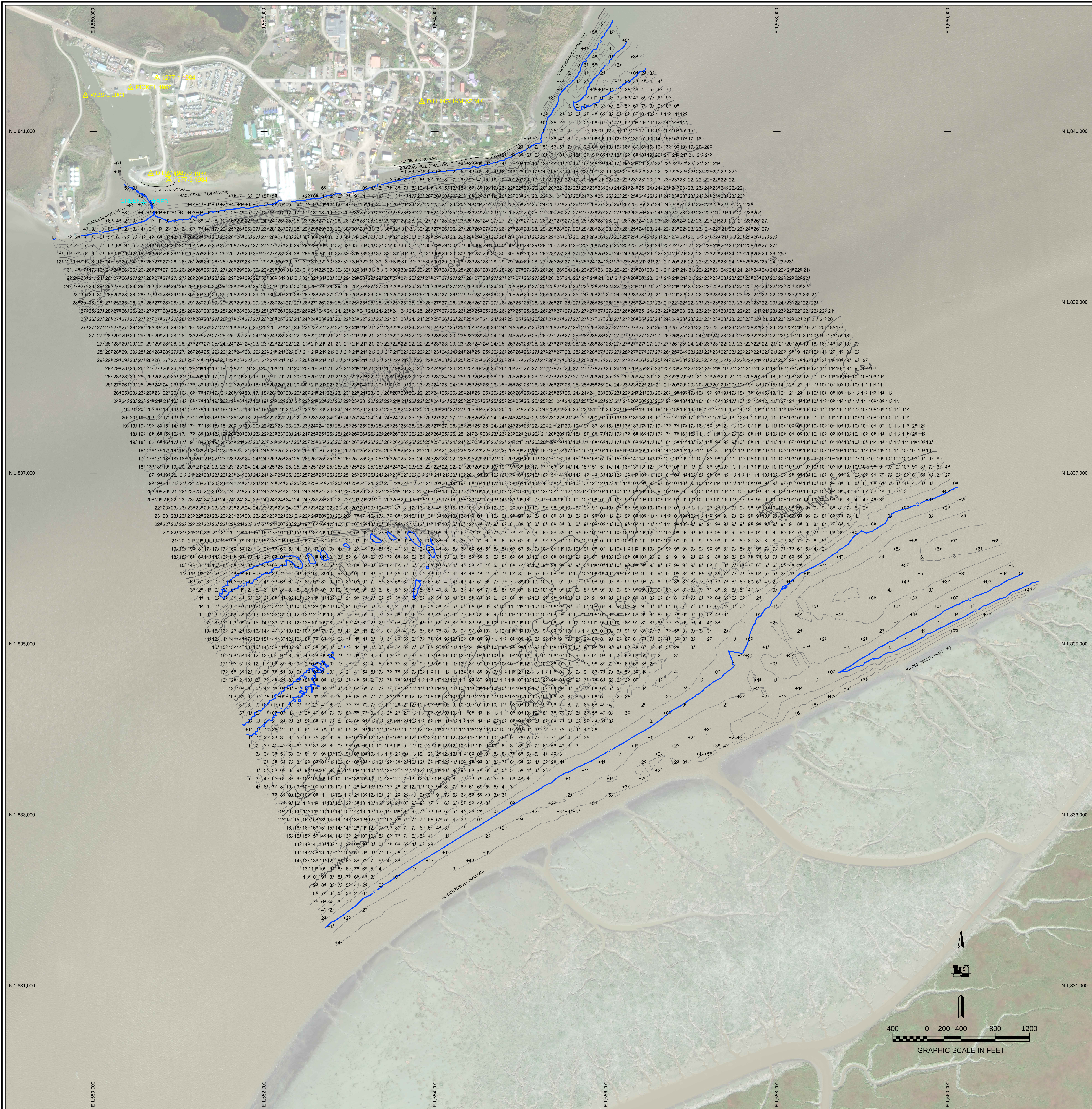




NOTES

1. PRIMARY PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 6, NAD83 (2011), IN US SURVEY FEET BASED ON NGS PUBLISHED VALUES, HOLDING USCGS STATION "DILLINGHAM 1947" (PID UV7691) AS N 1,849,383.08; E 1,551,809.45 AND USCGS AZIMUTH MARK "DILLINGHAM AZ MK 1947" (PID UV7690) AS N 1,841,347.21; E 1,553,844.91.
2. VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW=0), BASED ON THE NOAA/NOIS TIDAL BENCH MARK LIST: "946 5374, SNAG POINT, NUSHAGAK BAY, DILLINGHAM, ALASKA" PUBLISHED 04/29/2013. THIS TIDAL DATUM IS BASED ON THE 1983-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOAA/NOIS TIDAL BENCH MARK "5374 B 2007" AS 24.87.
3. VERTICAL TIES TO THE NATIONAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD83 (GEOID 128) ELEVATIONS HOLDING NOAA SS DRIVEN ROD "5374 B 2007" (PID BB871) AS 18.467.
4. SOUNDINGS ARE IN U.S. SURVEY FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
5. BATHYMETRY WAS COLLECTED SEPTEMBER 18-24, 2015. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2022 MULTIBeam ECHOSOUNDER OPERATING AT 200 KHZ. SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH AN AML BASE X SOUND VELOCITY PROBE. POSITION AND VESSEL ORIENTATION WERE MEASURED USING AN APPLANIX POSMV 320 VS SYSTEM. DATA WAS COLLECTED AND PROCESSED USING QINSY 8.1 SOFTWARE. HORIZONTAL CONTROL WAS SURVEYED USING RTK GNSS EQUIPMENT AND TECHNIQUES. VERTICAL CONTROL WAS SURVEYED USING DIFFERENTIAL LEVELING TECHNIQUES.
6. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
7. MAP SOUNDINGS ARE BINNED AT 96 FEET AND ARE SHOAL BIASED. CONTOURS ARE BASED ON 24 FEET BINNED SHOAL-BIASED SOUNDINGS.

SURVEY CONTROL DATA

STATION	NORTHING	EASTING	MLLW	DESCRIPTION
1277-1 1984	1,841,622.39	1,550,745.71	32.11	3.25" USACE SBC
1277-2 1984	1,840,494.00	1,550,879.74	30.86	3.25" USACE SBC
1277-3 1984	1,840,427.98	1,550,887.60	30.21	3.25" USACE SBC
5374 A 2007			25.62	NOAA SS DRIVEN ROD
5374 B 2007			24.87	NOAA SS DRIVEN ROD
DILL 1998	1,840,505.33	1,550,674.26	29.80	3.25" FLAT ALCAP
DILLINGHAM 1947	1,849,383.08	1,551,809.45		5" USCGS SBC
DILLINGHAM AZ MK	1,841,347.21	1,553,844.91		2" USCGS IRON PIPE
PICKLE 1998	1,841,509.51	1,550,437.81	28.82	3.25" FLAT ALCAP
WDS-2 2001	1,841,419.33	1,549,910.66	22.77	3.25" DOMED ALCAP

NAVIGATION AIDS

NAME	NORTHING	EASTING	DESCRIPTION
GREEN	1,840,158	1,550,591	DILLINGHAM HARBOR ENTRANCE GREEN
RED	1,840,182	1,550,703	DILLINGHAM HARBOR ENTRANCE RED

US Army Corps of Engineers
ALASKA DISTRICT

CONTRACT NO. W14H34-14-0013-0000
CONTRACTOR: EITM, INC.
CITY: SAN RAFAEL, STATE: CALIFORNIA
DATE: 10/20/15
RECOMMENDED BY: MICHAEL E. MILLER
PROJECT: DILLINGHAM HARBOR

FILE NAME: DILLINGHAM_HARBOR
SHEET: 1 OF 2
DATE: 10/20/15

U.S. ARMY CORPS OF ENGINEERS
ALASKA DISTRICT
JBER, ALASKA 99504-0888

FILE NAME: DILLINGHAM_HARBOR
SHEET: 1 OF 2
DATE: 10/20/15

5-DIL-92-07-43
Sheet 1 of 2

