











NOTES

PRIMARY PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 1, NAD83 2011 (2010.00), IN US SURVEY FEET BASED ON A FULLY CONSTRAINED STATIC GPS NETWORK HOLDING THE PUBLISHED NAD83 2010.00 EPOCH VALUES OF NGS CORS STATIONS:"JUNEAU WAAS 1 CORS ARP" (PID DF4367); "ATLIN CORS

LOCAL PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 1, NAD83(2011), IN US SURVEY FEET HOLDING "945 2400 L 2012" AS N 2,785,802.57', E 2,376,414.89' AND "SH-C 2000" AS N 2,785,923.03',

- . VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW = 0.0 FT), BASED ON THE NOAA/NOS TIDAL BENCH MARK LIST "9452400 SKAGWAY, TAIYA INLET, ALASKA", PUBLISHED 05/02/2014. THIS TIDAL DATUM IS BASED ON THE 2007-2011 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOAA/NOS TIDAL BENCH MARK "NO 11
- 3. VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD88 (GEOID 12B) ELEVATIONS HOLDING NOAA/USACE TIDAL BENCHMARK "945 2400 L 2012" (VM# 20535) AS 25.20 FT.
- 4. SOUNDINGS ARE IN US SURVEY FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
- 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 OCEANMASTER V5 SYSTEM. DATA WAS COLLECTED AND PROCESSED USING QINSY 8.1 SOFTWARE. HORIZONTAL CONTROL WAS SURVEYED USING STATIC GNSS EQUIPMENT AND TECHNIQUES. VERTICAL CONTROL WAS SURVEYED USING DIFFERENTIAL LEVELING
- 6. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
- 7. MAP SOUNDINGS ARE BINNED AT 24 FEET AND ARE SHOAL BIASED. COUNTOURS ARE BASED ON 12 FEET BINNED SHOAL-BIASED SOUNDINGS. VOLUME SOUNDINGS ARE BINNED AT 3 FEET AND ARE MEAN VALUE.

SURVEY CONTROL DATA							
STATION	NORTHING	EASTING	MLLW	DESCRIPTION			
945 2400 L 2012	2,785,802.57	2,376,414.89	29.41	NOAA TIDAL BENCH MARK 3" BC			
BREAKWATER 1959	2,785,305.71	2,377,647.46	26.70	USACE 3" SBC			
BREAKWATER RM1 1959	2,785,331	2,377,626	27.91	USACE 3" SB			
SH-C 2000	2,785,923.03	2,378,480.25	25.69	USCGS BENCH MARK 3"" BC			
SH-D 2000	2,785,514.68	2,377,444.63	27.91	USCGS BENCH MARK 3" BC			
SH-E 2008	2,785,480.60	2,378,347.59	28.66	USACE DOMED 3" BC			
SH-F 2011	2,785,791.20	2,377,748.02	28.62	USACE DOMED 3" BC			

	NAVIGATION AIDS						
USCG NO.	NORTHING	EASTING	DESCRIPTION				
23932	2,785,290	2,377,313	SKAGWAY HARBOR STEMWALL LIGHT				
23933	2,785,120	2,377,428	SKAGWAY BREAKWATER LIGHT				
23935	2,785,331	2,377,626	SKAGWAY BREAKWATER LIGHT 2				
23936	2,785,198	2,376,895	SKAGWAY FERRY TERMINAL LIGHT				
23937	2,785,558	2,376,965	SKAGWAY BROADWAY DOCK LIGHT				
23938	2,785,290	2,376,047	SKAGWAY ORE DOCK LIGHT				

PROJECT LIMITS						
CORNER#	NORTHING	EASTING				
1	2,785,329.03	2,377,792.70				
2	2,785,498.96	2,377,943.04				
3	2,785,635.48	2,377,795.81				
4	2,785,610.75	2,377,773.94				
5	2,785,514.05	2,377,598.88				
6	2,785,334.31	2,377,439.86				
7	2,785,301.18	2,377,477.30				
8	2,785,406.02	2,377,570.07				

PROJECT LIMITS					
CORNER#	NORTHING	EASTING			
9	2,785,418.70	2,377,691.35			
10	2,784,128.76	2,377,104.83			
11	2,784,632.08	2,377,591.30			
12	2,784,775.89	2,377,730.31			
13	2,784,233.01	2,376,996.97			
14	2,784,736.33	2,377,483.46			
15	2,784,880.13	2,377,622.45			



THIS HYDROGRAPHIC SURVEY WAS COMPLETED UNDER THE OVERSIGHT OF AN ACSM/THSOA CERTIFIED HYDROGRAPHER

David R. Neff C.H. (275)

SHEET IDENTIFICATION 1-SKA-92-07-09