

CONTRACT NO. WYHES-SC004	
CONTRACTOR	MANNION CONSTRUCTION CO.
STATE: ALASKA	
CITY/STATE	ANCHORAGE, AK
RECOMMENDED	Date: 05/09/2018
FIRM CONTRACTOR APPROVED	
BY: J. ANDERSON	

CONTRACT NO. WYHES-SC004	
CONTRACTOR	MANNION CONSTRUCTION CO.
STATE: ALASKA	
CITY/STATE	ANCHORAGE, AK
RECOMMENDED	Date: 05/09/2018
FIRM CONTRACTOR APPROVED	
BY: J. ANDERSON	

CONTRACT NO. WYHES-SC004	
CONTRACTOR	MANNION CONSTRUCTION CO.
STATE: ALASKA	
CITY/STATE	ANCHORAGE, AK
RECOMMENDED	Date: 05/09/2018
FIRM CONTRACTOR APPROVED	
BY: J. ANDERSON	

CONTRACT NO. WYHES-SC004	
CONTRACTOR	MANNION CONSTRUCTION CO.
STATE: ALASKA	
CITY/STATE	ANCHORAGE, AK
RECOMMENDED	Date: 05/09/2018
FIRM CONTRACTOR APPROVED	
BY: J. ANDERSON	

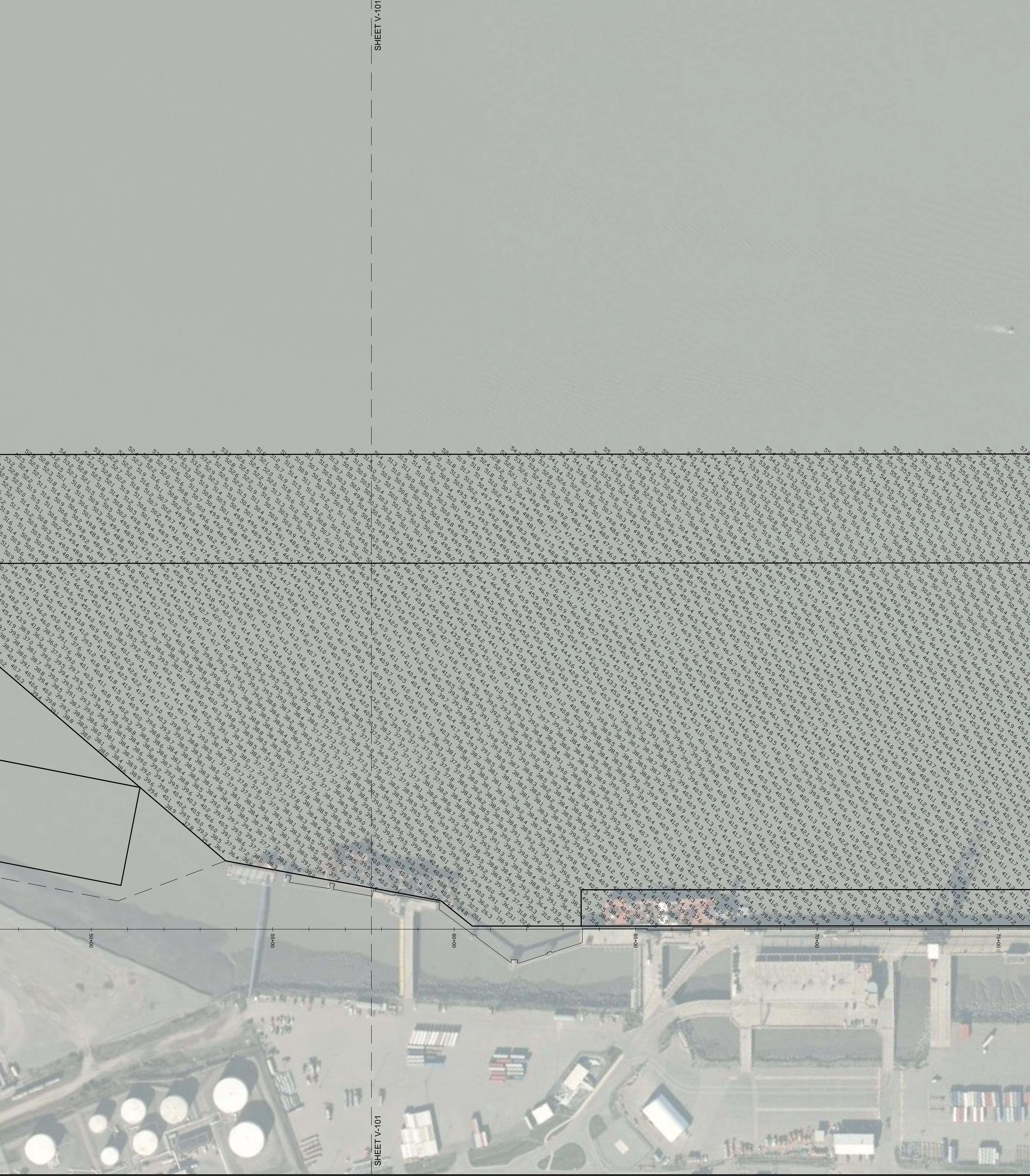
SHEET IDENTIFICATION	
V-102	

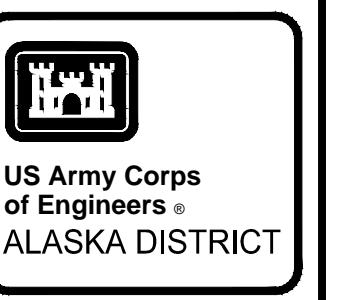
SHEET V-103

SHEET V-101

SHEET V-103

SHEET V-101






CONTRACT NO. W911KB-18-C-0004			
CONTRACTOR MANSON CONSTRUCTION CO.			
CITY SEATTLE STATE WASHINGTON			
Recommended:	Approved:	Date:	
		05/06/20	
PRIME CONTRACTOR		SECTION	

U.S. ARMY CORPS OF ENGINEERS ALASKA DISTRICT P.O. BOX 6898 JBER, ALASKA 99506-0898		SURVEYED BY: John Epps	DATE: 6 May 2020
		DRAWN BY: JBGRG	CHECKED BY: ATJBGIGH
		APPROVED BY: J. ANDERSON	UPC: ANCEXP13
		SCALE: 1" = 100'	CONTRACT NO.: W911KB18C0004
		PLOT DATE: 5/6/2020 3:59 PM	SURVEY NO.: 3668-20
SIZE: ANSI E	FILE NAME: PRE_20200429_ANCHORAGE_HARBOR_FINAL.DWG		

ANCHORAGE, ALASKA
2020 MAINT DREDGING, ANCHORAGE HARBOR
HYDROGRAPHIC SURVEY
BBE 202000130 ANCHORAGE HARBOR

2018-2				
SHEET IDENTIFICATION				
V-103				
Sheet	3	of	5	



NOTES

1. PRIMARY HORIZONTAL CONTROL IS ALASKA STATE PLANE, NAD 83 (2011) EPOCH 2010.00, ZONE 4, IN U.S. SURVEY FEET DERIVED FROM STATIC GPS MEASUREMENTS ORIGINATING FROM AND HOLDING NGS STATIONS "VAN DUSEN" (PID TT4476), "LOOP2 RM3" (PID UV4446), AND NGS CORS STATIONS "ANC2" (PID DL4498), "TBON" (PID DK4055), "TSEA" (PID A10952), "ZAN" (PID DE9153).

2. LOCAL HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83, US SURVEY FEET, HOLDING USACE SBC "S END 1978" AS N 2,646,649.84', E 1,660,584.80' AND USACE SBC "S END 1978" AS N 2,644,296.27', E 1,659,728.03'.

3. VERTICAL CONTROL: ELEVATIONS ARE MEAN LOWER LOW WATER (MLLW) BASED ON THE 1983-2001 TIDAL EPOCH EXPRESSED IN US FEET. THE BASIS OF ELEVATIONS IS NOAA/NOS TIDE STATION 9455920 "ANCHORAGE, KNIK ARM, COOK INLET, ALASKA" PUBLISHED 10/24/2011 HOLDING "NO 15 RESET 1966" (VM# 1332) AS 37.14'.

4. VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD88 (GEOD 12B) ELEVATIONS HOLDING NOAA/USACE TIDAL BENCHMARK "9455920 TIDAL 16" (PID TT0713/VM#1335) AS 29.79'.

5. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.

6. DATHYMETRY WAS COLLECTED APRIL 1-29, 2020. SOUNDINGS WERE COLLECTED USING AN RESONIC 2024 MULTIBEAM CHIRP UNDER OPERATING AT 200 kHz. SURFACE SOUND VELOCITY WAS MEASURED USING A VALEPORT SV PLUS MOUNTED TO THE SONAR HEAD. SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH AN AMI BASE X SOUND VELOCITY PROBE. POSITION AND VESSEL ORIENTATION WERE MEASURED USING AN APPLANIX POSMV WAVEMASTER V5 SYSTEM RECEIVING RTK CORRECTIONS FROM A PRIME SELENE GNSS RECEIVER SET AT CONTROL STATION "TERRA 1", LOCATED ATOP THE PORT OFFICE BUILDING. SURVEY DATA WAS COLLECTED USING QNSY 8.1 SOFTWARE AND PROCESSED USING QIMERA 1.3 SOFTWARE.

7. HORIZONTAL AND VERTICAL CONTROL SURVEY WAS PERFORMED BY USACE IN 2013 AND VERIFIED BY ETAC INC IN APRIL, 2018 AS PART OF THE PREDREDGE SURVEY.

8. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.

9. MAP SOUNDINGS ARE BINNED AT 30 FEET (SHOAL-BIASED) AND COLOR ELEVATIONS ARE BINNED AT 12 FEET AND ARE SHOAL-BIASED.

DS-3

DS-2

DS-4

DS-1

SOUNDING ELEVATIONS TABLE

#	MIN. ELEV.	MAX. ELEV.	COLOR
1	-100.0	-43.0	■
2	-43.0	-42.0	■
3	-42.0	-41.0	■
4	-41.0	-40.0	■
5	-40.0	-39.0	■
6	-39.0	-38.0	■
7	-38.0	-37.0	■
8	-37.0	-36.0	■
9	-36.0	-35.0	■
10	-35.0	-34.0	■
11	-34.0	-33.0	■
12	-33.0	-32.0	■
13	-32.0	-31.0	■
14	-31.0	20.0	■

