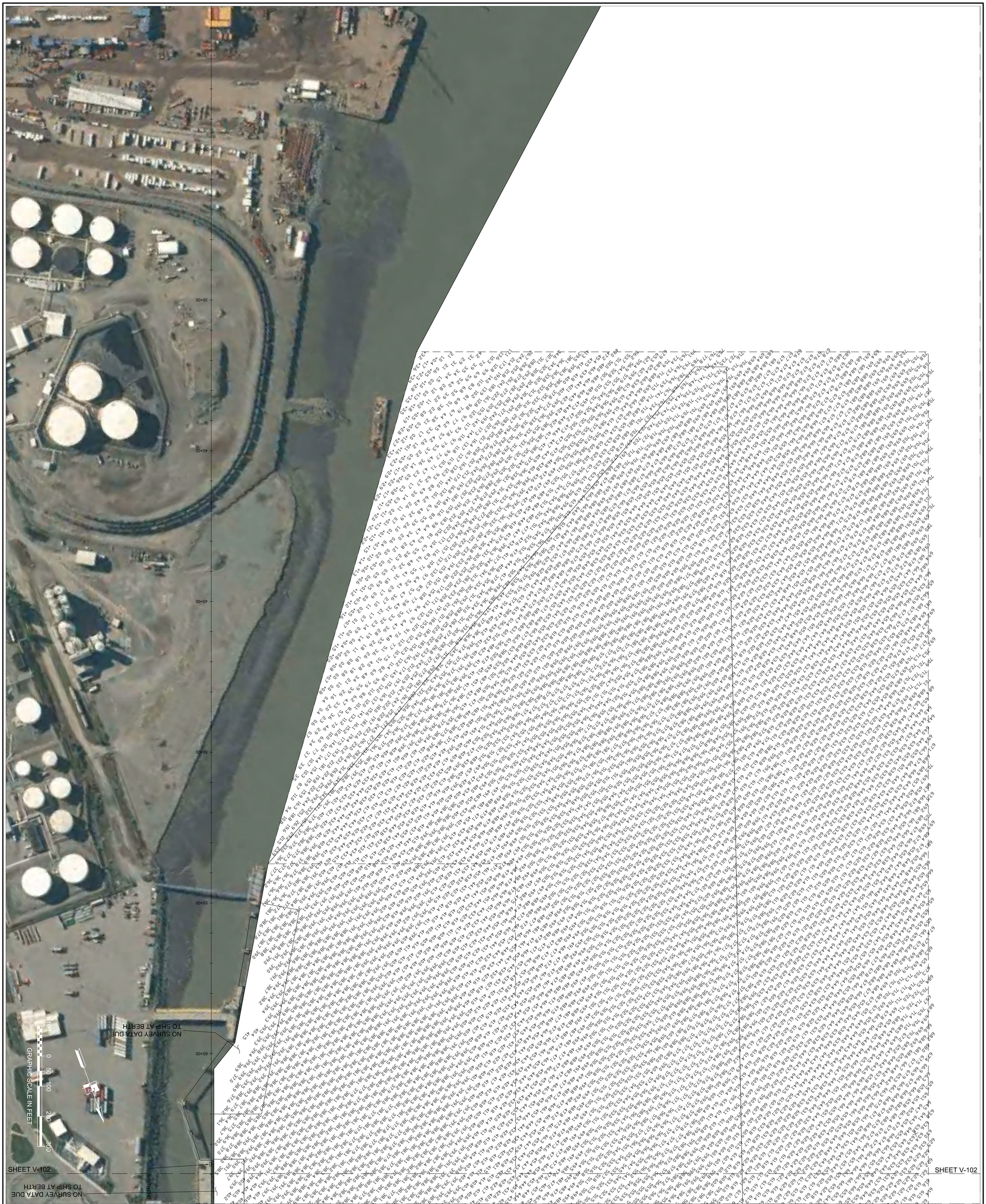

SHEET IDENTIFICATION
V-101
Sheet 1 of 5

ANCHORAGE, ALASKA
2015 - 2017 MAINTENANCE DREDGING, PORT OF ANCHORAGE
HYDROGRAPHIC SURVEY
POST_20151111_POA

U.S. ARMY CORPS OF ENGINEERS
ALASKA DISTRICT
P.O. BOX 6898
JBER, ALASKA 99506-0898

SURVEYED BY: GWG		DATE: 12 November 2015
DRAWN BY: ENH/GWG	CHECKED BY: GWG/ENH/MT/JA	UPC: ANCEXP11
APPROVED BY: J. ANDERSON		CONTRACT NO.: W911KB-15-C-0006
SCALE: AS SHOWN	PLOT DATE: 11/12/2015	JOB NO.: PRELIMINARY
SIZE: ANSI E	FILE NAME: POST_20151111_POA.DWG	

REVISION	DATE	DESCRIPTION	BY	APPVD

REVISION	DATE	DESCRIPTION	BY	APPVD

CONTRACT NO. W911KB-15-C-0006
CONTRACTOR MANSON CONSTRUCTION CO.
CITY SEATTLE STATE WASHINGTON

Recommended:	Approved:	Date:
KTR ENGINEER PRIME CONTRACTOR	CHIEF GEOMATICS SECTION	11/12/15

US Army Corps of Engineers
ALASKA DISTRICT

SHEET V-101

SHEET V-103

SHEET IDENTIFICATION
V-102
Sheet 2 of 5

ANCHORAGE, ALASKA
2015 - 2017 MAINTENANCE DREDGING, PORT OF ANCHORAGE
HYDROGRAPHIC SURVEY
POST_20151111_POA

U.S. ARMY CORPS OF ENGINEERS
ALASKA DISTRICT
P.O. BOX 6898
JBER, ALASKA 99506-0898

SURVEYED BY: GWG		DATE: 12 November 2015
DRAWN BY: ENH/GWG	CHECKED BY: GWG/ENH/MTJA	UPC: ANCEXP11
APPROVED BY: J. ANDERSON		CONTRACT NO.: W911KB-15-C-0006
SCALE: AS SHOWN	PLOT DATE: 11/12/2015	JOB NO.: PRELIMINARY
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REVISION	DATE	DESCRIPTION	BY	APPVD

REVISION	DATE	DESCRIPTION	BY	APPVD

CONTRACT NO. W911KB-15-C-0006
CONTRACTOR MANSON CONSTRUCTION CO.
CITY SEATTLE STATE WASHINGTON
Recommended: KTR ENGINEER, PRIME CONTRACTOR
Approved: CHIEF GEOMATICS SECTION
Date: 11/12/15

US Army Corps of Engineers
ALASKA DISTRICT

SHEET V-102

SHEET V-102

105+00

110+00

115+00

120+00

125+00

130+00

135+00

137+00

100 0 50 100 200 300

GRAPHIC SCALE IN FEET

SHEET IDENTIFICATION

V-103

Sheet 3 of 5

ANCHORAGE, ALASKA
2015 - 2017 MAINTENANCE DREDGING, PORT OF ANCHORAGE
HYDROGRAPHIC SURVEY
POST_20151111_POA

U.S. ARMY CORPS OF ENGINEERS
ALASKA DISTRICT
P.O. BOX 6898
JBER, ALASKA 99506-0898

SURVEYED BY: GWG		DATE: 12 November 2015
DRAWN BY: ENIU/GWG	CHECKED BY: GWG/ENIU/MTJA	UPC: ANCEXP11
APPROVED BY: I. ANDERSON		CONTRACT NO.: W911KB-15-C-0006
SCALE: AS SHOWN	PLOT DATE: 11/12/2015	JOB NO.: PRELIMINARY
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REVISION	DATE	DESCRIPTION	BY	APPVD

REVISION	DATE	DESCRIPTION	BY	APPVD

CONTRACT NO. W911KB-15-C-0006

CONTRACTOR MANSON CONSTRUCTION CO.

CITY SEATTLE STATE WASHINGTON

Recommended:	Approved:	Date:
KTR ENGINEER PRIME CONTRACTOR	CHIEF GEOMATICS SECTION	11/12/15

US Army Corps of Engineers
ALASKA DISTRICT

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 TT4676), "LOOP2 RM3" (PID UV4446), AND NGS CORS STATIONS "ANC2" (PID DL6498), "TBON" (PID DK4055), "TSEA" (PID AI0952), "ZAN1" (PID DE9153).

2. LOCAL HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83, US SURVEY FEET, HOLDING USACE SBC "N 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" (PID TT0711 / VM# 1332)AS 37.14', " B 75 1964 (PID TT0712 / VM# 1334) AS 36.81', "TIDAL 16 1966" (PID TT0713 / VM# 1335)AS 40.53', "5920 B 1980" (VM# 1336)AS 38.96', "5920 D 1980" (VM# 1337)AS 44.69', AND "5920 THERMO 1 1988 (VM# 1339) AS 37.32'.

4. VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD88 (GEOID 12A)ELEVATIONS HOLDING NOAA/USACE TIDAL BENCHMARK "9455920 THERMO 1 1988" (PID BBBH31/VM#1339)AS 26.41'.

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

6. BATHYMETRY WAS COLLECTED NOVEMBER 11, 2015. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2024 MULTIBEAM ECHOSOUNDER OPERATING AT 200 KHZ. SURFACE VELOCITY WAS MEASURED USING A VALEPORT SV-PLUS MOUNTED TO THE SONAR HEAD. 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 WAVEMASTER V5 SYSTEM RECEIVING RTK CORRECTIONS FROM A TRIMBLE SPS855 GPS RECEIVER SET AT CONTROL STATION "TERRA 11", LOCATED ATOP THE PORT OFFICE BUILDING. SURVEY DATA WAS COLLECTED AND PROCESSED USING QINSY 8.1 SOFTWARE.

7.

8. HORIZONTAL AND VERTICAL CONTROL SURVEY WAS PERFORMED BY USACE IN 2013 AND VERIFIED BY ETRAC INC IN APRIL, 2015 AS PART OF THE PREDREDGE SURVEY.

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

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

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	

PORT OF ANCHORAGE
DISPOSAL SITE

DISPOSAL LIMITS

SUMMER SURVEY LIMITS - AREA 1

SUMMER SURVEY LIMITS - AREA 2

WINTER SURVEY LIMITS

SUMMER SURVEY LIMITS TRANSITION AREA 1 & 2

DREDGE LIMITS

AREA A

AREA B

AREA E

AREA F

AREA G

AREA Amw

AREA Amw2

AREA Amw3

AREA WBB

NORTH END

SOUTH END

THERMO

CRAIG

MIKE

ETRAC-1

ETRAC-2

TERRA 12 ARP

TERRA 11 ARP

SHEET V-101

SHEET V-102

SHEET V-103

GRAPHIC SCALE IN FEET

US Army Corps of Engineers
ALASKA DISTRICT

CONTRACT NO. W911KB-15-C-0006
CONTRACTOR MARSON CONSTRUCTION,CO.
CITY SEATTLE STATE WASHINGTON
Recommended: KTR ENGINEER
Approved: CHIEF ESTIMATES SECTION
Date: 11/12/15
PRIME CONTRACTOR

NO.	DESCRIPTION	DATE	BY	APPD

NO.	DESCRIPTION	DATE	BY	APPD

SUBMITTED BY: DWG
DRAWN BY: J. ANDERSON
APPROVED BY: J. ANDERSON
CHECKED BY: DAVID KRUEGER
PLOT DATE: 11/12/2015
FILE NAME: P:\20_SURVEY\111_POA.DWG
SCALE: AS NOTED
DATE: 12 November 2015
UFC: 3-900-01PR
AREC: EBP11
CONTRACT NO.: W911KB-15-C-0006
PHASE: PRE DREDGE SURVEY

U.S. ARMY CORPS OF ENGINEERS
ALASKA DISTRICT
P.O. BOX 6898
JBER, ALASKA 99506-0898

ANCHORAGE, ALASKA
2015 - 2017 MAINTENANCE DREDGING, PORT OF ANCHORAGE
HYDROGRAPHIC SURVEY
POST_20151111_POA

SHEET IDENTIFICATION
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