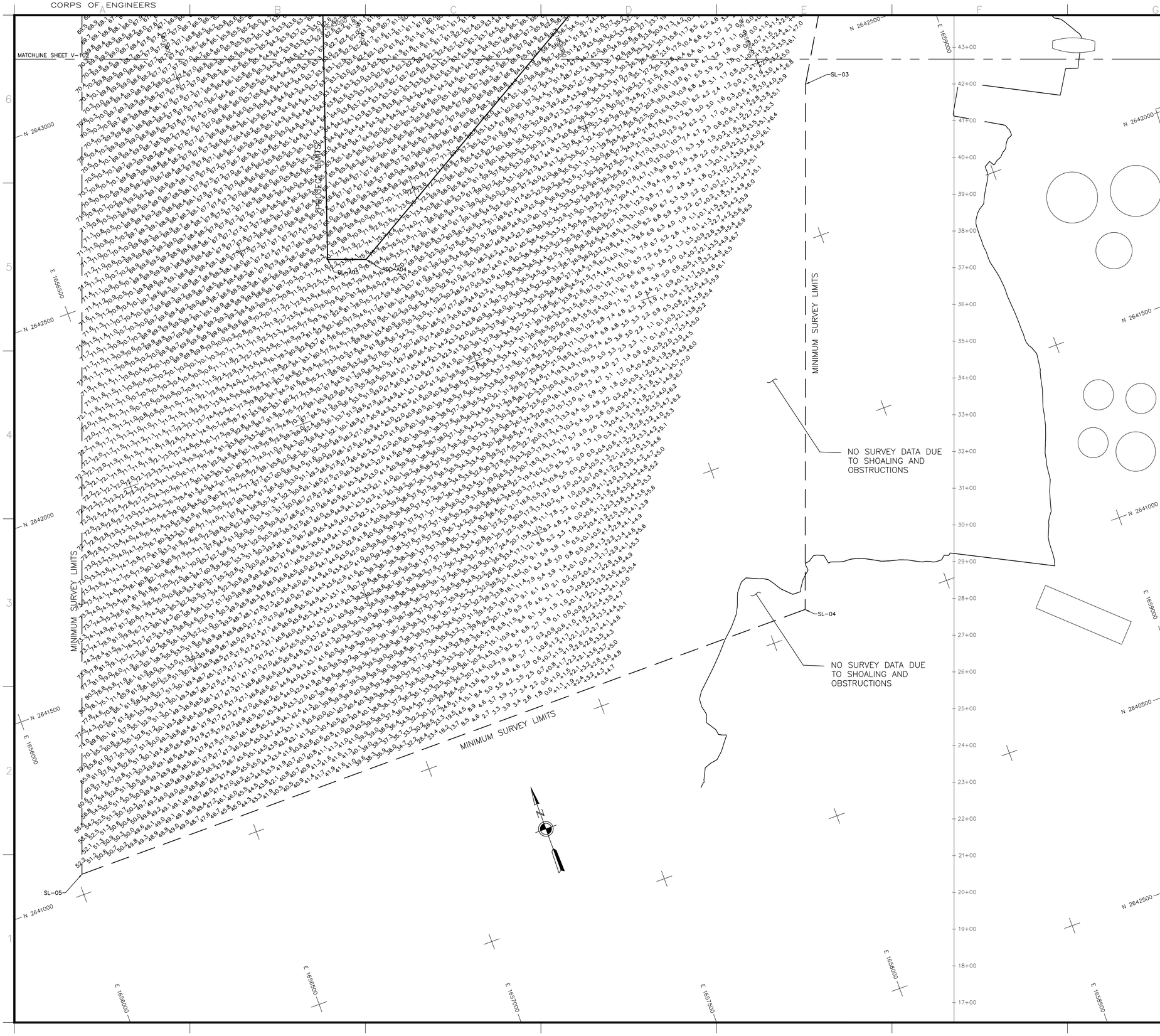
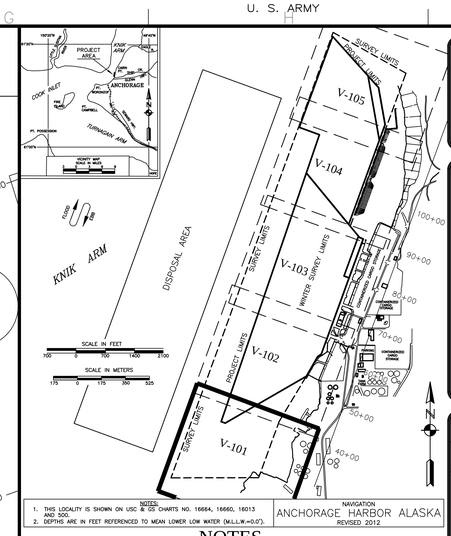
CORPS OF ENGINEERS

U. S. ARMY





NOTES:
1. THIS LOCALITY IS SHOWN ON USC & GS CHARTS NO. 16664, 16660, 16013 AND 500.
2. DEPTHS ARE IN FEET REFERENCED TO MEAN LOWER LOW WATER (M.L.L.W.=0.0').

NAVIGATION
ANCHORAGE HARBOR ALASKA
REVISED 2012

NOTES

1. 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'.

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

David R. Neff C.H.(275)

SUMMER SURVEY LIMITS POINT TABLE		
CORNER	NORTHING	EASTING
DL-A01	2,644,001.92	1,659,611.68
DL-A02	2,643,944.48	1,659,516.63
DL-A03	2,643,483.73	1,659,245.67
DL-A09	2,646,763.28	1,660,615.50
SL-01	2,651,701.73	1,659,893.33
SL-02	2,650,726.25	1,661,637.33
SL-03	2,642,398.54	1,658,604.02
SL-04	2,641,055.81	1,658,114.19
SL-05	2,641,052.18	1,658,017.62
SL-06	2,646,746.32	1,660,662.07
SL-07	2,646,897.79	1,660,717.23
SL-08	2,647,352.20	1,660,406.89

DREDGE LIMIT A POINT TABLE		
CORNER	NORTHING	EASTING
DL-A04	2,642,359.80	1,657,316.67
DL-A05	2,642,395.68	1,657,218.16
DL-A06	2,648,342.16	1,659,254.03
DL-A07	2,647,067.43	1,660,304.63
DL-A08	2,646,798.05	1,660,526.57
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DL-A03	2,643,483.73	1,659,245.67

DREDGE LIMIT Amw POINT TABLE		
CORNER	NORTHING	EASTING
DL-Amw02	2,646,770.56	1,660,596.87
DL-Amw04	2,645,839.57	1,660,258.43
DL-A08	2,646,798.05	1,660,526.57
DL-Amw01	2,646,846.91	1,660,486.30
DL-Amw05	2,645,884.06	1,660,136.28

DREDGE LIMIT Amw2 POINT TABLE		
CORNER	NORTHING	EASTING
DL-Amw05	2,645,884.06	1,660,136.28
DL-Amw07	2,646,900.67	1,660,442.00
DL-Amw03	2,645,904.59	1,660,079.90
DL-Amw01	2,646,846.91	1,660,486.30

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CORNER	NORTHING	EASTING
DL-Amw06	2,647,175.03	1,660,215.92
DL-Amw07	2,646,900.67	1,660,442.00
DL-Amw03	2,645,904.59	1,660,079.90

DREDGE LIMIT B POINT TABLE		
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DL-B04	2,649,430.26	1,659,086.40
DL-B05	2,651,604.46	1,659,885.47
DL-PND2	2,649,122.65	1,661,000.03
DL-PND3	2,647,112.20	1,660,267.74
DL-WBB02	2,650,663.91	1,660,728.64

DREDGE LIMIT WET BARGE BERTH POINT TABLE		
CORNER	NORTHING	EASTING
DL-PND1	2,649,498.45	1,661,136.91
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DL-B06	2,650,382.05	1,660,981.32
DL-WBB02	2,650,663.91	1,660,728.64

DISPOSAL AREA POINT TABLE		
CORNER	NORTHING	EASTING
DS01	2,650,125.73	1,658,658.25
DS02	2,650,809.80	1,656,779.24
DS03	2,642,354.11	1,653,700.90
DS04	2,641,670.05	1,655,579.94

CONTROL DATA				
STATION	NORTHING	EASTING	ELEV. (MLLW)	DESCRIPTION
PORT 1989	2,639,934.29	1,656,925.43	39.55	Aimon
5920 THERMO 1 1988	2,642,784.70	1,660,183.87	37.32	Aimon
S. END	2,644,296.27	1,659,728.03	40.50	USACE SBC 1978 (APPROX. STA 63+67.98)
ETRAC-2	2,644,443.04	1,660,120.66	36.38	Brass Cap
TERRA 11	2,644,969.84	1,660,159.24	80.48	Antennae Reference Point
TERRA 12	2,644,990.65	1,660,166.56	81.21	Antennae Reference Point
ETRAC-1	2,646,395.57	1,660,814.72	38.34	Brass Cap
N. END	2,646,649.84	1,660,584.80	41.56	USACE SBC 1978 (APPROX. STA 88+73.09)

100 0 100 200 300
SCALE IN FEET
HORIZONTAL SCALE: 1"=100'

BATHYMETRY

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. W911KB-12-C-0004
CONTRACTOR MANSON CONSTRUCTION CO.
CITY SEATTLE STATE WASHINGTON
Recommended: Approved: Date:
PROJECT ENGINEER / PROJECT MANAGER / RESIDENT ENGINEER

Ref. Action	Description	Date	Approv.

Date: 11/04/14
Dwg. Scale: 1"=100'
Plot Scale: 1:1
File: POSTDREDGE_20141031_FINAL.dwg

Designed: S. OLSON
Drawn: S. OLSON
Reviewed: J. ANDERSON
Submitted: A. CHURCHILL
USACE Survey No.: 3242-14

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

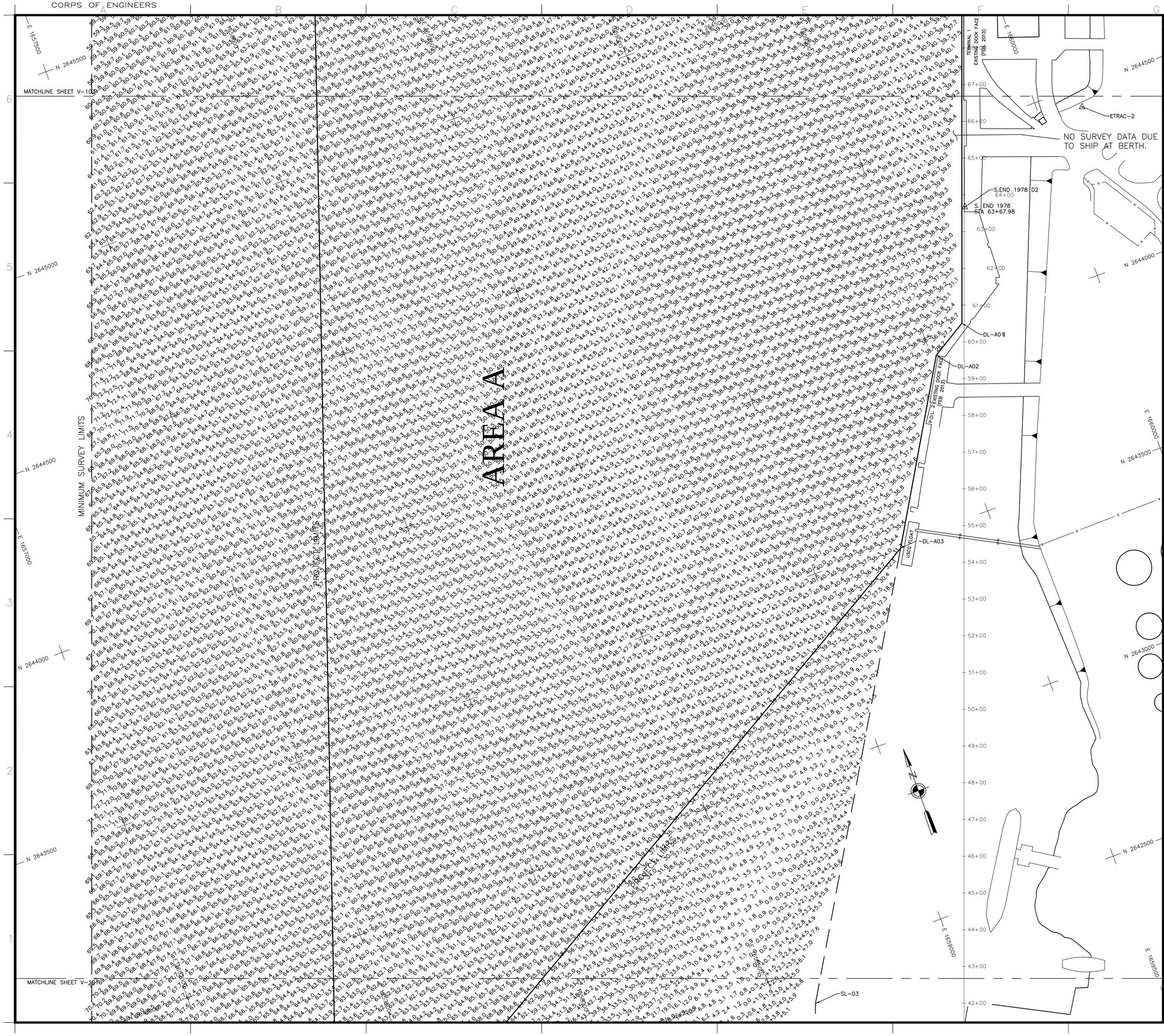
POSTDREDGE SURVEY

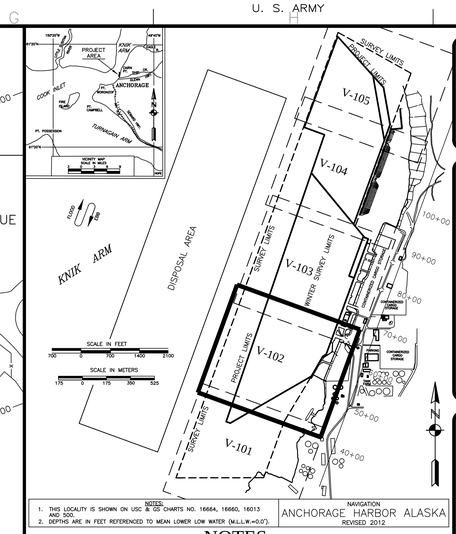
ANCHORAGE, ALASKA
PORT OF ANCHORAGE
2012-2014
MAINTENANCE DREDGING
31 OCTOBER, 2014
POSTDREDGE SURVEY

Reference number:
V-101
Sheet 1 of 6

CORPS OF ENGINEERS

U. S. ARMY





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ANCHORAGE HARBOR ALASKA
REVISED 2012

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SCALE IN FEET
HORIZONTAL SCALE: 1"=100'

BATHYMETRY

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. W911KB-12-C-0004
CONTRACTOR MANSON CONSTRUCTION CO.
CITY SEATTLE STATE WASHINGTON
Recommended: Approved: Date:
PROJECT ENGINEER RESIDENT ENGINEER
PRIME CONTRACTOR

Ref. Action	Description	Date	Approv

Date: 11/04/14
Dwg Scale: 1"=100'
Plot Scale: 1:1
File: POSTDREDGE_20141031_FINAL.dwg

Designed: S. OLSON
Drawn: S. OLSON
Reviewed: J. ANDERSON
Submitted: A. CHURCHILL
USACE Survey No. 3242-14

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

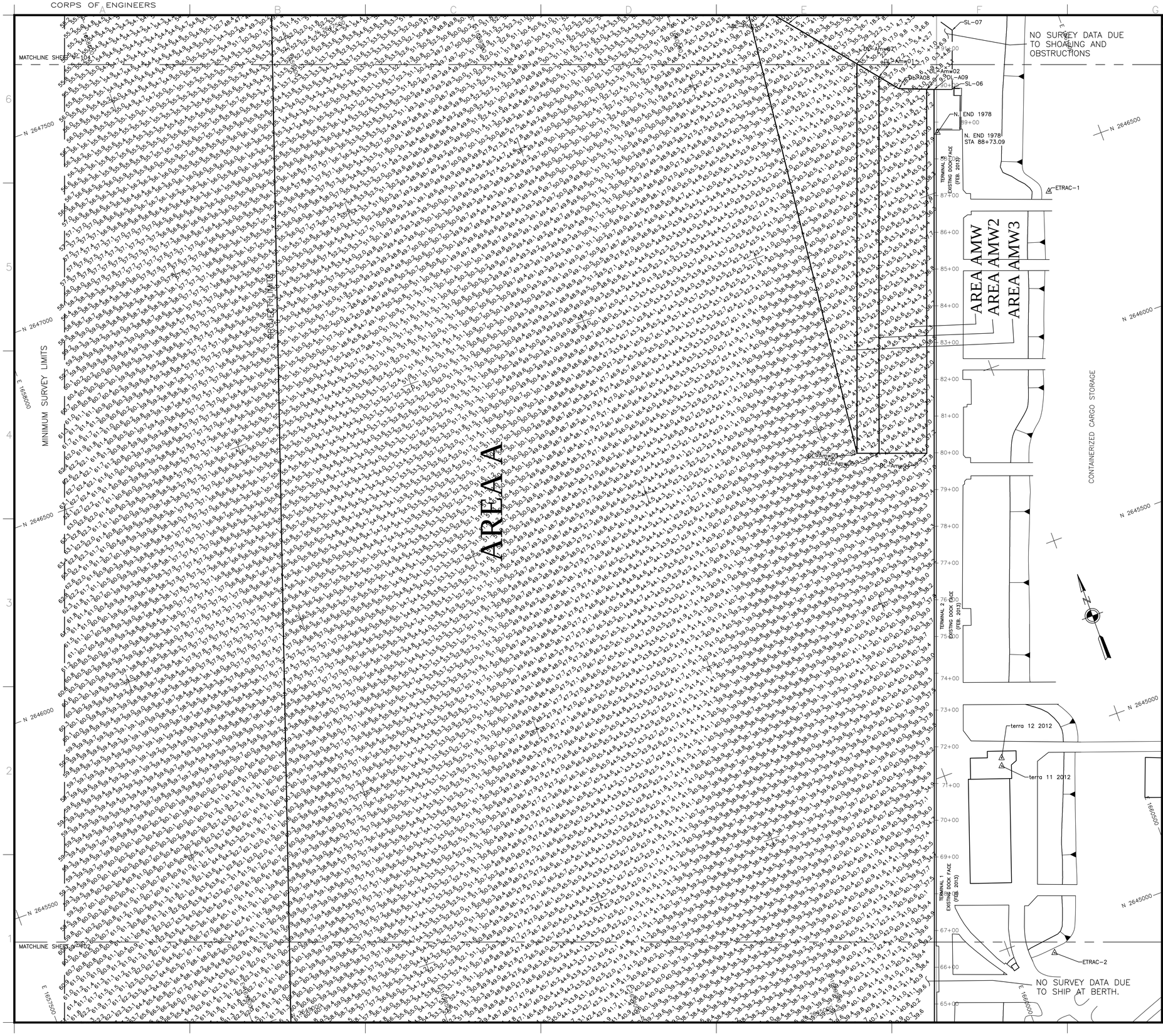
POSTDREDGE SURVEY

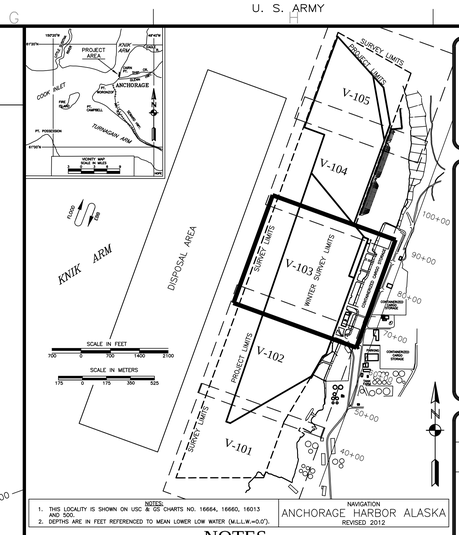
ANCHORAGE, ALASKA
PORT OF ANCHORAGE
2012-2014
MAINTENANCE DREDGING
31 OCTOBER, 2014
POSTDREDGE SURVEY

Reference number:
V-102
Sheet 2 of 6

CORPS OF ENGINEERS

U. S. ARMY





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ANCHORAGE HARBOR ALASKA
REVISED 2012

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CORNER	NORTHING	EASTING
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DL-Amw07	2,646,900.67	1,660,442.00
DL-Amw03	2,645,904.59	1,660,079.90

DREDGE LIMIT B POINT TABLE

CORNER	NORTHING	EASTING
DL-A06	2,648,342.16	1,659,254.03
DL-B03	2,649,256.22	1,659,566.97
DL-B04	2,649,430.26	1,659,088.40
DL-B05	2,651,604.46	1,659,885.47
DL-PND2	2,649,122.65	1,661,000.03
DL-PND3	2,647,112.20	1,660,267.74
DL-WEB02	2,650,663.91	1,660,728.64

DREDGE LIMIT WET BARGE BERTH POINT TABLE

CORNER	NORTHING	EASTING
DL-PND1	2,649,498.45	1,661,136.91
DL-PND2	2,649,122.65	1,661,000.03
DL-B06	2,650,382.05	1,660,981.32
DL-WEB02	2,650,663.91	1,660,728.64

DISPOSAL AREA POINT TABLE

CORNER	NORTHING	EASTING
DS01	2,650,125.73	1,658,658.25
DS02	2,650,809.80	1,656,779.24
DS03	2,642,354.11	1,653,700.90
DS04	2,641,670.05	1,655,579.94

CONTROL DATA

STATION	NORTHING	EASTING	ELEV. (MLLW)	DESCRIPTION
PORT 1989	2,639,934.29	1,656,925.43	39.55	Almon
5920 THERMO 1 1988	2,642,784.70	1,660,183.87	37.32	Almon
S. END	2,644,296.27	1,659,728.03	40.50	USACE SBC 1978 (APPROX. STA 83+67.98)
ETRAC-2	2,644,443.04	1,660,120.66	36.38	Brass Cap
TERRA 11	2,644,969.84	1,660,159.24	80.48	Antennae Reference Point
TERRA 12	2,644,990.65	1,660,166.56	81.21	Antennae Reference Point
ETRAC-1	2,646,395.57	1,660,814.72	38.34	Brass Cap
N. END	2,646,649.84	1,660,584.80	41.56	USACE SBC 1978 (APPROX. STA 88+73.09)

100 0 100 200 300
SCALE IN FEET
HORIZONTAL SCALE: 1"=100'

BATHYMETRY

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. W911KB-12-C-0004
CONTRACTOR MANSON CONSTRUCTION CO.
CITY SEATTLE STATE WASHINGTON
Recommended: Approved: Date:
PROJECT ENGINEER / PROJ. CONTRACTOR

Ref. Action	Description	Date	Approv

Designed: S. OLSON
Drawn: S. OLSON
Reviewed: J. ANDERSON
Submitted: A. CHURCHILL
USACE Survey No. 3242-14

Date: 11/04/14
Dwg Scale: 1"=100'
Plot Scale: 1:1
File: POSTDREDGE_20141031_FINAL.dwg

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

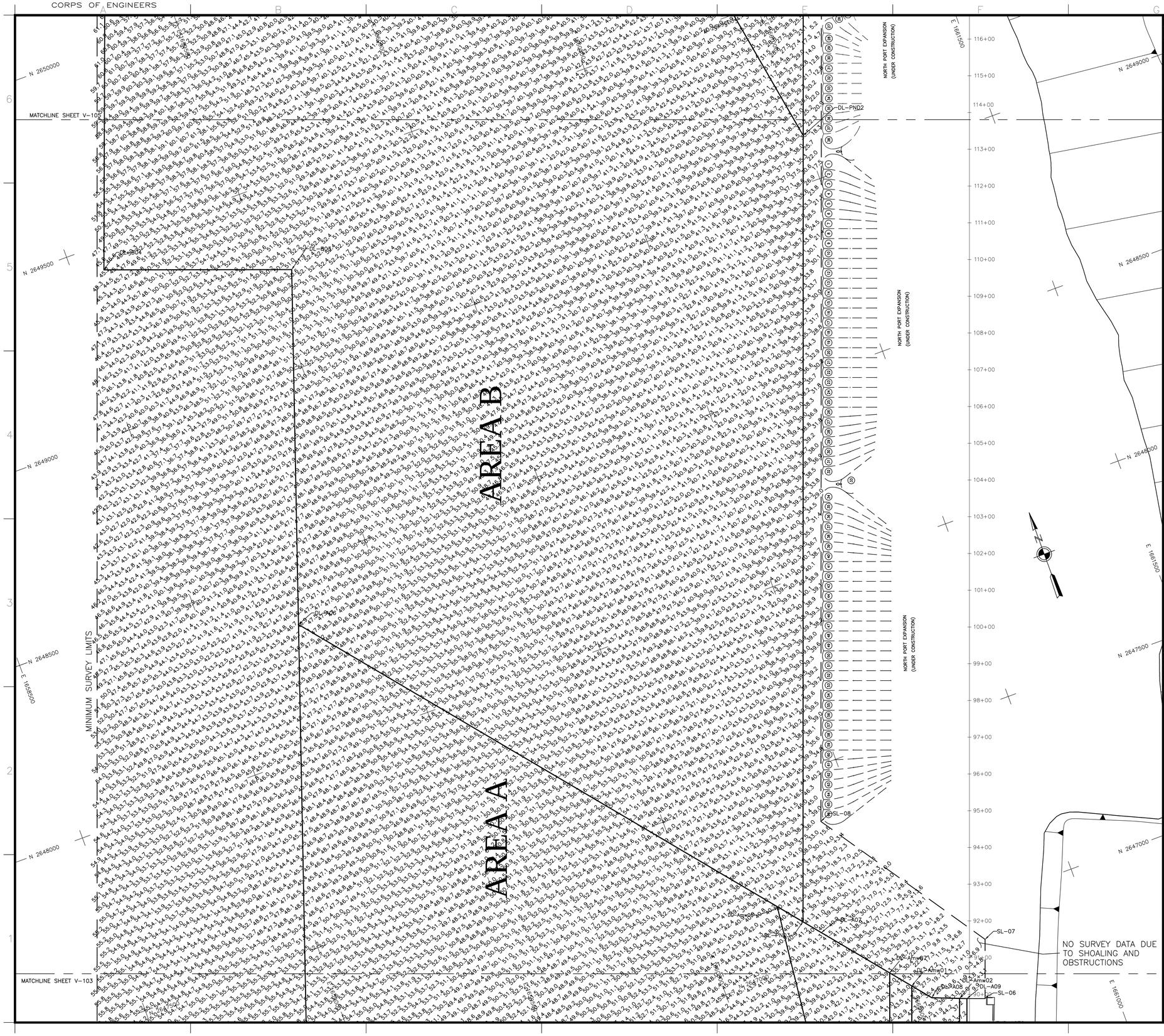
POSTDREDGE SURVEY

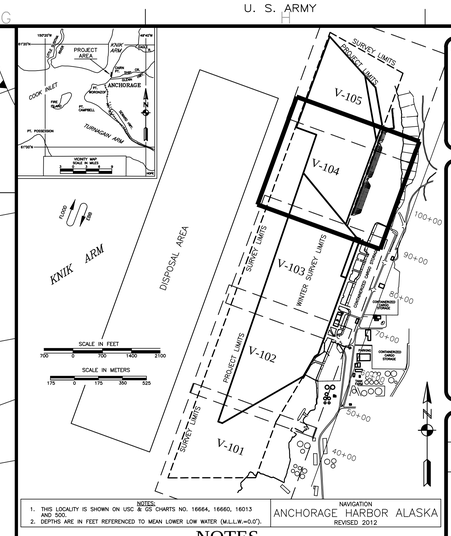
ANCHORAGE, ALASKA
PORT OF ANCHORAGE
2012–2014
MAINTENANCE DREDGING
31 OCTOBER, 2014
POSTDREDGE SURVEY

Reference number:
V-103
Sheet 3 of 6

CORPS OF ENGINEERS

U. S. ARMY





NOTES:
1. THIS LOCALITY IS SHOWN ON USC & GS CHARTS NO. 16664, 16660, 16013 AND 500.
2. DEPTHS ARE IN FEET REFERENCED TO MEAN LOWER LOW WATER (M.L.L.W.=0.0').

NAVIGATION
ANCHORAGE HARBOR ALASKA
REVISED 2012

NOTES

1. 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'.

2. 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 9453920 "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'.

3. BASE MAP AND PROJECT LIMITS WERE TRANSFORMED USING EXISTING BASELINE ("N END 1978" TO "S END 1978") PROVIDED BY USACE TRANSLATED, ROTATED, AND SCALED TO 2012 BASELINE ("N END 1978" TO "S END 1978").

4. BASE MAP FEATURES INCLUDING BUT NOT LIMITED TO DOCK FACES, BUILDINGS, PILINGS, AND ROADS ARE PROVIDED BY USACE AND ARE NOT VERIFIED BY ETRAC INC.

5. THIS SURVEY WAS PERFORMED BY ETRAC INC. ON 31 OCTOBER, 2014.

6. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2024 MULTIBEAM ECHO SOUNDER OPERATING AT 200kHz. SURFACE VELOCITY WAS MEASURED USING A VALEPORT SV-PLUS MOUNTED TO THE SONAR HEAD.

7. SOUND VELOCITY PROFILES WERE COLLECTED USING A AML BASE X SVP UNIT.

8. VESSEL POSITION, HEADING, ATTITUDE, AND RTK TIDES WERE ACQUIRED USING AN APPLANIX POSMV WAVEMASTER GPS/INERTIAL POSITIONING SYSTEM RECEIVING RTK CORRECTIONS FROM A TRIMBLE SP5855 GPS RECEIVER SET AT CONTROL STATION "TERRA 11", LOCATED ATOP THE PORT OFFICE BUILDING.

9. SURVEY NAVIGATION AND DATA COLLECTION WERE PERFORMED USING QPS QINSY (V8.0). DATA PROCESSING WAS PERFORMED IN QPS QLOUD (V2.2.0.0)

10. SOUNDING MINUS AND IN FEET UNLESS OTHERWISE INDICATED.

11. SURVEY DATA IS VALID ONLY WITHIN THE TIMEFRAME IN WHICH THE SURVEY WAS CONDUCTED.

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

David R. Neff C.H.(275)

SUMMER SURVEY LIMITS POINT TABLE		
CORNER	NORTHING	EASTING
DL-A01	2,644,001.92	1,659,611.68
DL-A02	2,643,944.48	1,659,516.63
DL-A03	2,643,483.73	1,659,245.67
DL-A09	2,646,763.28	1,660,615.50
SL-01	2,651,701.73	1,659,893.33
SL-02	2,650,726.25	1,661,637.33
SL-03	2,642,398.54	1,658,604.02
SL-04	2,641,055.81	1,658,114.19
SL-05	2,641,052.18	1,656,017.62
SL-06	2,646,746.32	1,660,662.07
SL-07	2,646,897.79	1,660,717.23
SL-08	2,647,352.20	1,660,406.89

DREDGE LIMIT A POINT TABLE		
CORNER	NORTHING	EASTING
DL-A04	2,642,359.80	1,657,316.67
DL-A05	2,642,395.68	1,657,218.16
DL-A06	2,648,342.16	1,659,354.03
DL-A07	2,647,087.43	1,660,304.63
DL-A08	2,646,798.05	1,660,526.57
DL-A01	2,644,001.92	1,659,611.68
DL-A09	2,646,763.28	1,660,615.50
DL-A02	2,643,944.48	1,659,516.63
DL-A03	2,643,483.73	1,659,245.67

DREDGE LIMIT Amw POINT TABLE		
CORNER	NORTHING	EASTING
DL-AmwO2	2,646,770.56	1,660,596.87
DL-AmwO4	2,645,839.57	1,660,258.43
DL-A08	2,646,798.05	1,660,526.57
DL-AmwO1	2,646,846.91	1,660,486.30
DL-AmwO5	2,645,884.06	1,660,136.28

DREDGE LIMIT Amw2 POINT TABLE		
CORNER	NORTHING	EASTING
DL-Amw05	2,645,884.06	1,660,136.28
DL-Amw07	2,646,900.67	1,660,442.00
DL-Amw03	2,645,904.59	1,660,079.90
DL-Amw01	2,646,846.91	1,660,486.30

DREDGE LIMIT Amw3 POINT TABLE		
CORNER	NORTHING	EASTING
DL-Amw06	2,647,175.03	1,660,215.92
DL-Amw07	2,646,900.67	1,660,442.00
DL-Amw03	2,645,904.59	1,660,079.90

DREDGE LIMIT B POINT TABLE		
CORNER	NORTHING	EASTING
DL-A06	2,648,342.16	1,659,254.03
DL-B03	2,649,256.22	1,659,566.97
DL-B04	2,649,430.26	1,659,088.40
DL-B05	2,651,604.46	1,659,885.47
DL-PND2	2,649,122.65	1,661,000.03
DL-PND3	2,647,112.20	1,660,267.74
DL-WDB02	2,650,663.91	1,660,728.64

DREDGE LIMIT WET BARGE BERTH POINT TABLE		
CORNER	NORTHING	EASTING
DL-PND1	2,649,498.45	1,661,136.91
DL-PND2	2,649,122.65	1,661,000.03
DL-B06	2,650,382.05	1,660,981.32
DL-WDB02	2,650,663.91	1,660,728.64

DISPOSAL AREA POINT TABLE		
CORNER	NORTHING	EASTING
DS01	2,650,125.73	1,658,658.25
DS02	2,650,809.80	1,656,779.24
DS03	2,642,354.11	1,653,700.90
DS04	2,641,670.05	1,655,579.94

CONTROL DATA				
STATION	NORTHING	EASTING	ELEV. (MLLW)	DESCRIPTION
PORT 1989	2,639,934.29	1,656,925.43	39.55	Almon
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S. END	2,644,296.27	1,659,728.03	40.50	USACE SBC 1978 (APPROX. STA 83+67.98)
ETRAC-2	2,644,443.04	1,660,120.66	36.38	Brass Cap
TERRA 11	2,644,969.84	1,660,159.24	80.48	Antennae Reference Point
TERRA 12	2,644,990.65	1,660,166.56	81.21	Antennae Reference Point
ETRAC-1	2,646,395.57	1,660,814.72	38.34	Brass Cap
N. END	2,646,649.84	1,660,584.80	41.56	USACE SBC 1978 (APPROX. STA 88+73.09)

SCALE IN FEET
HORIZONTAL SCALE: 1"=100'

BATHYMETRY

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. W911KB-12-C-0004
CONTRACTOR MANSON CONSTRUCTION CO.
CITY SEATTLE STATE WASHINGTON
Recommended: Approved: Date:
PROJECT ENGINEER / RESIDENT ENGINEER
PROJECT CONTRACTOR

Ref. Action	Description	Date	Approv.

Date: 11/04/14
Dwg Scale: 1"=100'
Plot Scale: 1:1
File: POSTDREDGE_20141031_FINAL.dwg

Designer: S. OLSON
Drawn: S. OLSON
Reviewed: J. ANDERSON
Submitted: A. CHURCHILL
USACE Survey No.: 3242-14

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

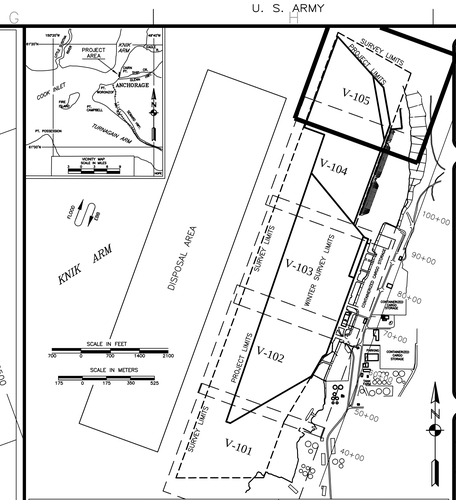
POSTDREDGE SURVEY

ANCHORAGE, ALASKA
PORT OF ANCHORAGE
2012–2014
MAINTENANCE DREDGING
31 OCTOBER, 2014
POSTDREDGE SURVEY

Reference number:
V-104
Sheet 4 of 6

CORPS OF ENGINEERS

U. S. ARMY



NOTES:
1. THIS LOCALITY IS SHOWN ON USC & GS CHARTS NO. 16664, 16660, 16013 AND 500.
2. DEPTHS ARE IN FEET REFERENCED TO MEAN LOWER LOW WATER (M.L.L.W.=0.0').

NAVIGATION
ANCHORAGE HARBOR ALASKA
REVISED 2012

NOTES

1. 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'.

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3. BASE MAP AND PROJECT LIMITS WERE TRANSFORMED USING EXISTING BASELINE ("N END 1978" TO "S END 1978") PROVIDED BY USACE TRANSLATED, ROTATED, AND SCALED TO 2012 BASELINE ("N END 1978" TO "S END 1978").

4. BASE MAP FEATURES INCLUDING BUT NOT LIMITED TO DOCK FACES, BUILDINGS, PILINGS, AND ROADS ARE PROVIDED BY USACE AND ARE NOT VERIFIED BY ETRAC INC.

5. THIS SURVEY WAS PERFORMED BY ETRAC INC. ON 31 OCTOBER, 2014.

6. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2024 MULTIBEAM ECHO SOUNDER OPERATING AT 200kHz. SURFACE VELOCITY WAS MEASURED USING A VALEPORT SV-PLUS MOUNTED TO THE SONAR HEAD.

7. SOUND VELOCITY PROFILES WERE COLLECTED USING A AML BASE X SVP UNIT.

8. VESSEL POSITION, HEADING, ATTITUDE, AND RTK TIDES WERE ACQUIRED USING AN APPLANIX POSMV WAVEMASTER GPS/INERTIAL POSITIONING SYSTEM RECEIVING RTK CORRECTIONS FROM A TRIMBLE SPS855 GPS RECEIVER SET AT CONTROL STATION "TERRA 11", LOCATED ATOP THE PORT OFFICE BUILDING.

9. SURVEY NAVIGATION AND DATA COLLECTION WERE PERFORMED USING QPS QINSY (V8.0). DATA PROCESSING WAS PERFORMED IN QPS QLOUD (V2.2.0.0)

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

David R. Neff C.H.(275)

SUMMER SURVEY LIMITS POINT TABLE		
CORNER	NORTHING	EASTING
DL-A01	2,644,001.92	1,659,611.68
DL-A02	2,643,944.48	1,659,516.63
DL-A03	2,643,483.73	1,659,245.67
DL-A09	2,646,763.28	1,660,615.50
SL-01	2,651,701.73	1,659,893.33
SL-02	2,650,726.25	1,661,637.33
SL-03	2,642,398.54	1,658,604.02
SL-04	2,641,055.81	1,658,114.19
SL-05	2,641,052.18	1,658,017.62
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SL-07	2,646,897.79	1,660,717.23
SL-08	2,647,352.20	1,660,406.89

DREDGE LIMIT A POINT TABLE		
CORNER	NORTHING	EASTING
DL-A04	2,642,359.80	1,657,316.67
DL-A05	2,642,395.68	1,657,218.16
DL-A06	2,648,342.16	1,659,254.03
DL-A07	2,647,067.43	1,660,304.63
DL-A08	2,646,798.05	1,660,526.57
DL-A01	2,644,001.92	1,659,611.68
DL-A09	2,646,763.28	1,660,615.50
DL-A02	2,643,944.48	1,659,516.63
DL-A03	2,643,483.73	1,659,245.67

DREDGE LIMIT Amw POINT TABLE		
CORNER	NORTHING	EASTING
DL-Amw02	2,646,770.56	1,660,596.87
DL-Amw04	2,645,839.57	1,660,258.43
DL-A08	2,646,798.05	1,660,526.57
DL-Amw01	2,646,846.91	1,660,486.30
DL-Amw05	2,645,884.06	1,660,136.28

DREDGE LIMIT Amw2 POINT TABLE		
CORNER	NORTHING	EASTING
DL-Amw05	2,645,884.06	1,660,136.28
DL-Amw07	2,646,900.67	1,660,442.00
DL-Amw03	2,645,904.59	1,660,079.90
DL-Amw01	2,646,846.91	1,660,486.30

DREDGE LIMIT Amw3 POINT TABLE		
CORNER	NORTHING	EASTING
DL-Amw06	2,647,175.03	1,660,215.92
DL-Amw07	2,646,900.67	1,660,442.00
DL-Amw03	2,645,904.59	1,660,079.90

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DL-B04	2,649,430.26	1,659,086.40
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DL-PND3	2,647,112.20	1,660,267.74
DL-WBB02	2,650,663.91	1,660,728.64

DREDGE LIMIT WET BARGE BERTH POINT TABLE		
CORNER	NORTHING	EASTING
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DL-B06	2,650,382.05	1,660,981.32
DL-WBB02	2,650,663.91	1,660,728.64

DISPOSAL AREA POINT TABLE		
CORNER	NORTHING	EASTING
DS01	2,650,125.73	1,658,658.25
DS02	2,650,809.80	1,656,779.24
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DS04	2,641,670.05	1,655,579.94

CONTROL DATA				
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ETRAC-1	2,646,365.57	1,660,814.72	38.34	Brass Cap
N. END	2,646,649.84	1,660,584.80	41.56	USACE SBC 1978 (APPROX. STA 88+73.09)

100 0 100 200 300
SCALE IN FEET
HORIZONTAL SCALE: 1"=100'

BATHYMETRY

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. W911KB-12-C-0004
CONTRACTOR MANSON CONSTRUCTION CO.
CITY SEATTLE STATE WASHINGTON
Recommended: Approved: Date:
PROJECT ENGINEER / PROJECT MANAGER — RESIDENT ENGINEER

Ref. Action	Description	Date	Approv

Date: 11/04/14
Dwg Scale: 1"=100'
Plot Scale: 1:1
File: POSTDREDGE_20141031_FINAL.dwg

Designed: S. OLSON
Drawn: S. OLSON
Reviewed: J. ANDERSON
Submitted: A. CHURCHILL
USACE Survey No.: 3242-14

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

POSTDREDGE SURVEY

ANCHORAGE, ALASKA
PORT OF ANCHORAGE
2012–2014
MAINTENANCE DREDGING
31 OCTOBER, 2014
POSTDREDGE SURVEY

Reference number:
V-105
Sheet 5 of 6

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

David R. Neff C.H.(275)

STATE OF ALASKA 49TH
(Lewis J. Epps)
11/04/14
No. 3510
REGISTERED PROFESSIONAL LAND SURVEYOR

NOTES

1. 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'.
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3. BASE MAP AND PROJECT LIMITS WERE TRANSFORMED USING EXISTING BASELINE ("N END 1978" TO "S END 1978") PROVIDED BY USACE TRANSLATED, ROTATED, AND SCALED TO 2012 BASELINE ("N END 1978" TO "S END 1978").
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10. SOUNDING MINUS AND IN FEET UNLESS OTHERWISE INDICATED.
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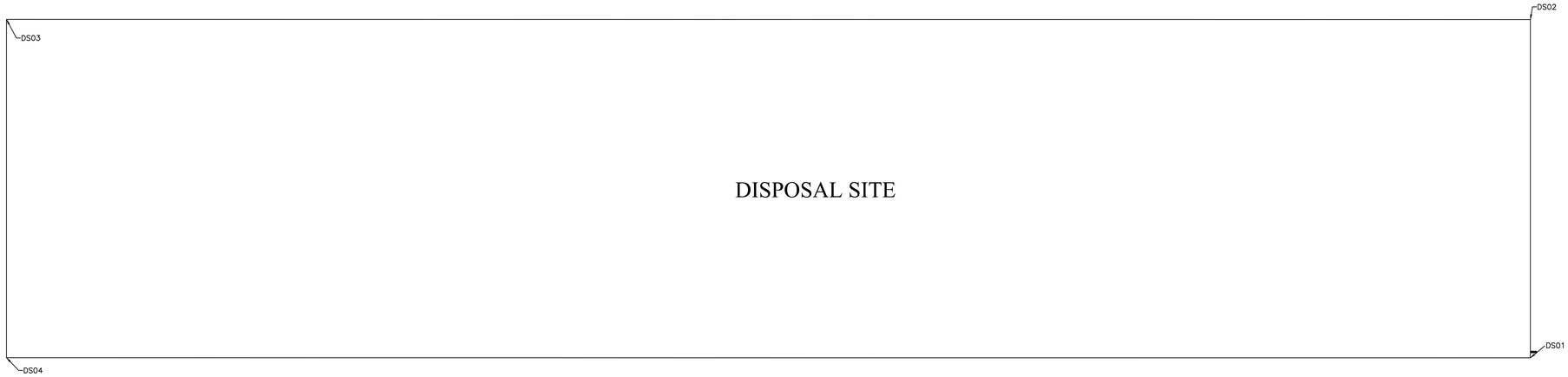
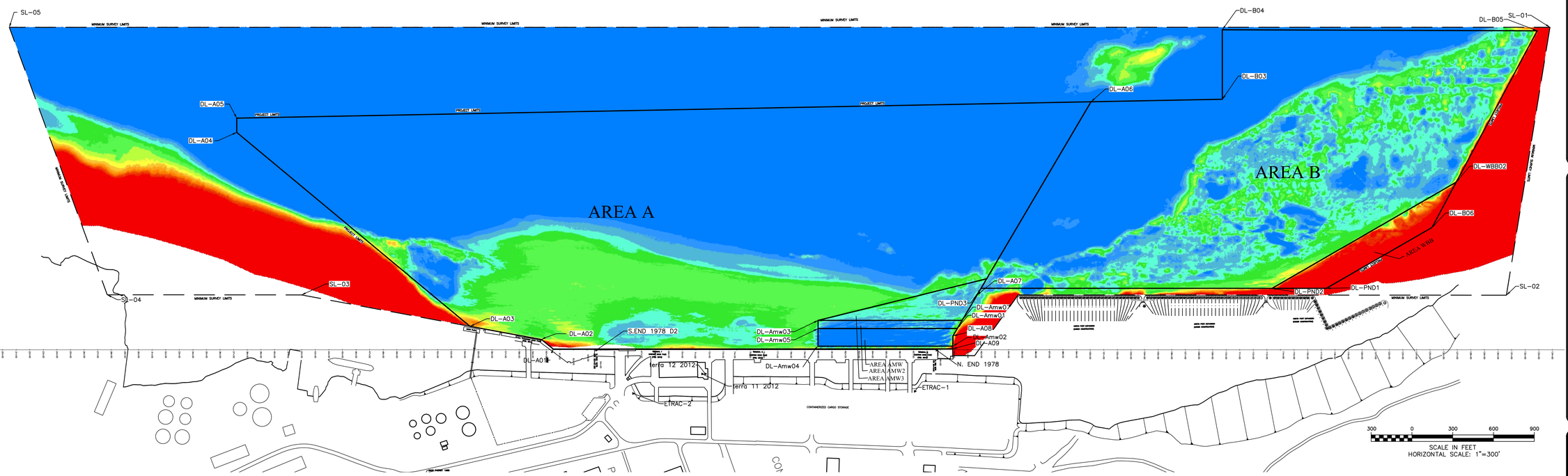
SOUNDING ELEVATIONS TABLE

MINIMUM ELEVATION	MAXIMUM ELEVATION	COLOR
-44 & BELOW	-43	
-43	-42	
-42	-41	
-41	-40	
-40	-39	
-39	-38	
-38	-37	
-37	-36	
-36	-35	
-35	-34	
-34	-33	
-33	-32	
-32	-31	
-31	+10	





BATHYMETRY

US ARMY CORPS OF ENGINEERS
ALASKA DISTRICT

CONTRACT NO. W911KB-12-C-0004
CONTRACTOR MANSON CONSTRUCTION CO.
CITY SEATTLE STATE WASHINGTON
Recommended: Approved: Date:
PRIME CONTRACTOR RESIDENT ENGINEER

Num	Action	Description	Date	Approv

Date: 11/04/14
Dwg Scale: 1"=300'
Plot Scale: 1:1
File: POSTDREDGE_20141031_FINAL.dwg

Designed: S. OLSON
Drawn: S. OLSON
Reviewed: J. ANDERSON
Submitted: A. CHURCHILL
USACE Survey No. 3242-14

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
ANCHORAGE, ALASKA

POSTDREDGE SURVEY

ANCHORAGE, ALASKA
PORT OF ANCHORAGE
2012-2014
MAINTENANCE DREDGING
31 OCTOBER, 2014
POSTDREDGE SURVEY

Reference number:
V-106
Sheet 6 of 6