



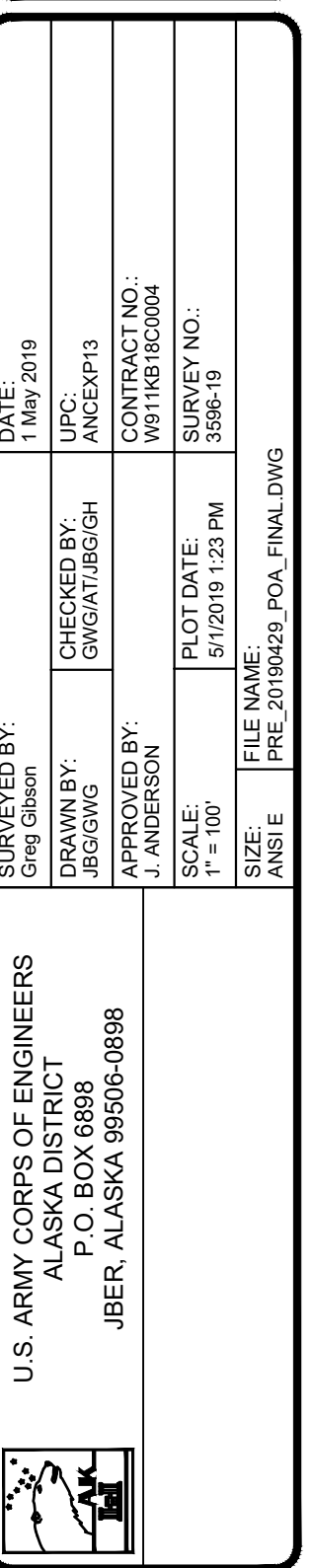






US Army Corps  
of Engineers  
ALASKA DISTRICT

- |                                           |                         |                |          |
|-------------------------------------------|-------------------------|----------------|----------|
| <b>CONTRACT NO.</b> W9146B-18C-0004       |                         |                |          |
| <b>CONTRACTOR</b> MANSON CONSTRUCTION CO. |                         |                |          |
| <b>CITY</b> SEATTLE                       | <b>STATE</b> WASHINGTON | <b>Date:</b>   | 05/01/19 |
| <b>Recommended:</b>                       | <b>Approved:</b>        | <b>SECTION</b> |          |
| FORM CONTRACTOR                           |                         |                |          |

[illegible]

ANCHORAGE, ALASKA  
2018-2020 MAINTENANCE DREDGING, PORT OF ALASKA  
HYDROGRAPHIC SURVEY  
PRE\_20190429\_POA

V-104

| DREDGE LIMITS-AREA A |              |              |
|----------------------|--------------|--------------|
| CORNER#              | NORTHING     | EASTING      |
| DL-1                 | 2,642,807.88 | 1,658,113.58 |
| DL-3                 | 2,643,944.48 | 1,659,516.63 |
| DL-4                 | 2,644,001.92 | 1,659,611.67 |
| DL-10                | 2,647,025.64 | 1,660,339.01 |
| DL-11                | 2,647,608.45 | 1,659,858.72 |
| DL-12                | 2,645,952.60 | 1,659,948.39 |
| DL-15                | 2,645,866.95 | 1,660,183.26 |
| DL-18                | 2,644,317.98 | 1,659,620.16 |
| DL-19                | 2,644,283.82 | 1,659,714.15 |
| DL-32                | 2,643,424.51 | 1,659,210.27 |

| DREDGE LIMITS-AREA Amw1 |              |              |
|-------------------------|--------------|--------------|
| CORNER#                 | NORTHING     | EASTING      |
| DL-6                    | 2,646,768.74 | 1,660,601.52 |
| DL-7                    | 2,646,798.05 | 1,660,526.57 |
| DL-8                    | 2,646,846.91 | 1,660,486.30 |
| DL-14                   | 2,645,884.06 | 1,660,136.28 |
| DL-16                   | 2,645,837.86 | 1,660,263.13 |

| DREDGE LIMITS-AREA Amw2 |              |              |
|-------------------------|--------------|--------------|
| CORNER#                 | NORTHING     | EASTING      |
| DL-8                    | 2,646,846.91 | 1,660,486.30 |
| DL-9                    | 2,646,936.07 | 1,660,412.82 |
| DL-13                   | 2,645,918.33 | 1,660,042.33 |
| DL-14                   | 2,645,884.06 | 1,660,136.28 |

| DREDGE LIMITS-AREA Amw3 |              |              |
|-------------------------|--------------|--------------|
| CORNER#                 | NORTHING     | EASTING      |
| DL-9                    | 2,646,936.07 | 1,660,412.82 |
| DL-10                   | 2,647,025.64 | 1,660,339.01 |
| DL-12                   | 2,645,952.60 | 1,659,948.39 |
| DL-13                   | 2,645,918.33 | 1,660,042.33 |

| DREDGE LIMITS-AREA E |              |              |
|----------------------|--------------|--------------|
| CORNER#              | NORTHING     | EASTING      |
| DL-15                | 2,645,866.95 | 1,660,183.26 |
| DL-17                | 2,645,832.73 | 1,660,277.22 |
| DL-18                | 2,644,317.98 | 1,659,620.16 |
| DL-19                | 2,644,283.82 | 1,659,714.15 |

| DREDGE LIMITS-AREA F |              |              |
|----------------------|--------------|--------------|
| CORNER#              | NORTHING     | EASTING      |
| DL-5                 | 2,646,763.28 | 1,660,615.50 |
| DL-6                 | 2,646,768.74 | 1,660,601.52 |
| DL-16                | 2,645,837.86 | 1,660,263.13 |
| DL-17                | 2,645,832.73 | 1,660,277.22 |

| DREDGE LIMITS-AREA B |              |              |
|----------------------|--------------|--------------|
| CORNER#              | NORTHING     | EASTING      |
| DL-5                 | 2,646,763.28 | 1,660,615.50 |
| DL-7                 | 2,646,798.05 | 1,660,526.57 |
| DL-11                | 2,647,608.45 | 1,659,858.72 |
| DL-20                | 2,646,850.77 | 1,660,647.34 |
| DL-21                | 2,647,872.49 | 1,660,467.17 |
| DL-22                | 2,648,452.82 | 1,660,165.67 |

| DREDGE LIMITS-AREA D |              |              |
|----------------------|--------------|--------------|
| CORNER#              | NORTHING     | EASTING      |
| DL-1                 | 2,642,807.88 | 1,658,113.58 |
| DL-23                | 2,642,232.23 | 1,657,904.31 |
| DL-24                | 2,642,580.52 | 1,658,523.75 |
| DL-25                | 2,643,272.23 | 1,658,939.43 |

| DREDGE LIMITS-AREA DS |              |              |
|-----------------------|--------------|--------------|
| CORNER#               | NORTHING     | EASTING      |
| DL-1                  | 2,642,807.88 | 1,658,113.58 |
| DL-23                 | 2,642,232.23 | 1,657,904.31 |
| DL-24                 | 2,642,580.52 | 1,658,523.75 |
| DL-25                 | 2,643,272.23 | 1,658,939.43 |
| DL-26                 | 2,641,835.69 | 1,657,760.16 |
| DL-27                 | 2,642,376.49 | 1,658,721.97 |

| ANCHORAGE HARBOR DISPOSAL SITE |              |              |
|--------------------------------|--------------|--------------|
| CORNER#                        | NORTHING     | EASTING      |
| DS-1                           | 2,648,165.97 | 1,657,951.12 |
| DS-2                           | 2,648,842.59 | 1,656,063.65 |
| DS-3                           | 2,642,300.35 | 1,653,681.79 |
| DS-4                           | 2,641,635.87 | 1,655,567.00 |

| ANCHORAGE HARBOR SURVEY LIMITS |              |              |
|--------------------------------|--------------|--------------|
| CORNER#                        | NORTHING     | EASTING      |
| SL-1                           | 2,642,582.29 | 1,657,712.36 |
| SL-2                           | 2,649,197.14 | 1,660,117.04 |
| SL-3                           | 2,648,167.33 | 1,660,652.06 |
| SL-4                           | 2,647,824.67 | 1,660,527.25 |
| SL-5                           | 2,646,872.99 | 1,660,708.20 |
| SL-6                           | 2,646,746.32 | 1,660,662.07 |
| SL-7                           | 2,646,763.28 | 1,660,615.50 |
| SL-8                           | 2,644,001.92 | 1,659,611.67 |
| SL-9                           | 2,643,944.48 | 1,659,516.63 |
| SL-10                          | 2,643,424.51 | 1,659,210.27 |
| SL-11                          | 2,643,272.22 | 1,658,939.43 |

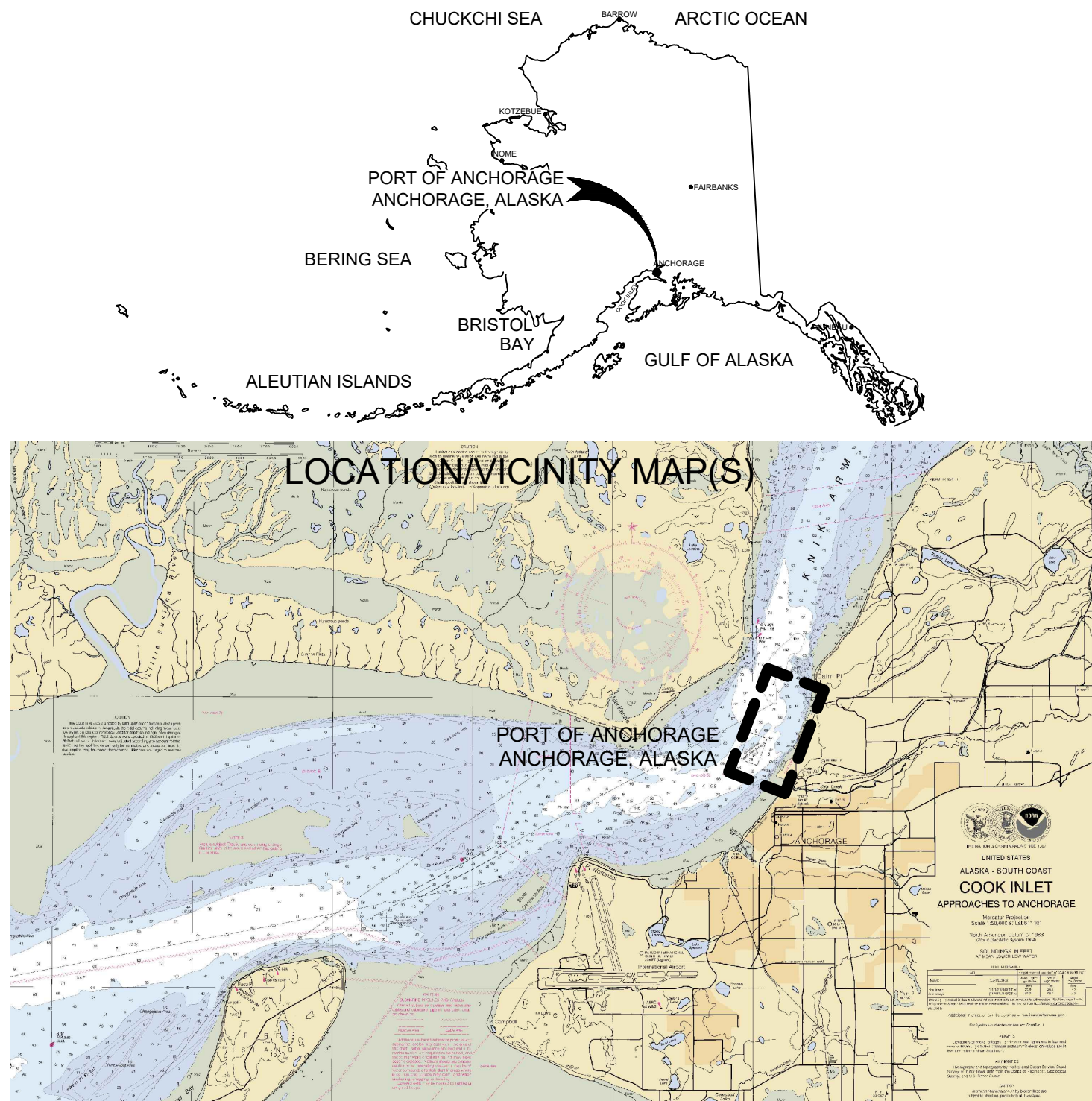
| ANCHORAGE TRANSITIONAL SURVEY LIMITS |              |              |
|--------------------------------------|--------------|--------------|
| CORNER#                              | NORTHING     | EASTING      |
| SL-10                                | 2,643,424.51 | 1,659,210.27 |
| SL-11                                | 2,643,272.22 | 1,658,939.43 |
| SL-17                                | 2,643,107.91 | 1,659,212.64 |
| SL-18                                | 2,642,339.74 | 1,658,748.44 |
| SL-19                                | 2,642,026.06 | 1,658,190.55 |

| ANCHORAGE SHOAL SURVEY LIMITS |              |              |
|-------------------------------|--------------|--------------|
| CORNER#                       | NORTHING     | EASTING      |
| SL-13                         | 2,648,330.45 | 1,658,639.85 |
| SL-14                         | 2,648,120.96 | 1,659,197.08 |
| SL-15                         | 2,649,029.74 | 1,659,555.17 |
| SL-16                         | 2,649,250.34 | 1,658,975.35 |

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

| SURVEY CONTROL DATA |              |              |                 |       |                   |
|---------------------|--------------|--------------|-----------------|-------|-------------------|
| STATION             | NORTHING     | EASTING      | ELLIP. HT. (FT) | MLLW  | DESCRIPTION       |
| BM 12 1974          | 2,620,563.82 | 1,604,566.35 | 33.52           | 27.63 | BRASS CAP         |
| BM 5934 F           | 2,655,203.73 | 1,655,049.51 | 46.51           | 36.48 | BRASS CAP         |
| CRAIG               | 2,642,635.95 | 1,661,029.47 | 55.54           | 44.73 | BRASS CAP         |
| ETRAC-1             | 2,646,395.57 | 1,660,814.72 | 48.96           | 38.22 | BRASS CAP         |
| ETRAC-2             | 2,644,443.04 | 1,660,120.66 | 47.00           | 36.31 | BRASS CAP         |
| MIKE                | 2,645,987.73 | 1,661,875.48 | 59.23           | 48.38 | BRASS CAP         |
| NORTH END           | 2,646,649.84 | 1,660,584.80 | 52.22           | 41.51 | BRASS CAP         |
| PORT 1989           | 2,639,934.29 | 1,656,925.43 | 50.08           | 39.64 | ALMON             |
| PORT MAC            | 2,655,563.46 | 1,654,968.22 | 51.52           | 41.51 | BRASS CAP         |
| RIFE 1960           | 2,620,502.19 | 1,604,162.70 | 35.85           | 29.99 | BRASS CAP         |
| SOUTH END           | 2,644,296.27 | 1,659,728.03 | 51.22           | 40.57 | BRASS CAP         |
| TERRA 11 ARP        | 2,644,969.84 | 1,660,159.24 | 91.07           | 80.48 | ARP               |
| TERRA 12 ARP        | 2,644,990.65 | 1,660,166.56 | 91.90           | 81.21 | ARP               |
| THERMO              | 2,642,784.70 | 1,660,183.87 | 48.04           | 37.3  | ALMON (DISTURBED) |

| NAVIGATION AIDS |              |              |                                  |
|-----------------|--------------|--------------|----------------------------------|
| USCG NO.        | NORTHING     | EASTING      | DESCRIPTION                      |
| 26410           | 2,620,482.01 | 1,605,132.29 | FIRE ISLAND RANGE FRONT LIGHT    |
| 26415           | 2,619,767.91 | 1,603,779.36 | FIRE ISLAND RANGE REAR LIGHT     |
| 26420           | 2,631,850.53 | 1,624,593.18 | KNIK ARM SHOAL LIGHTED BUOY 7    |
| 26435           | 2,631,161.57 | 1,636,356.21 | POINT WORONZOF RANGE FRONT LIGHT |
| 26440           | 2,631,320.13 | 1,637,173.61 | POINT WORONZOF RANGE REAR LIGHT  |



#### 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), "LOOP? RM3" (PID UV4446), AND NGS CORS STATIONS "ANC2" (PID DL6496), "TBOH" (PID DK4055), "TSEA" (PID AI0952), "ZANI" (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 U.S. FEET. THE BASIS OF ELEVATIONS IS NOAA'S TIDE STATION 9455920 "ANCHORAGE, KNIK ARM, COOK INLET, ALASKA" PUBLISHED 10/24/2011 HOLDING "NO 15 RESET 1966" (VM# 1332) AS 37.14.
5. VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD88 (GEOID 12B) ELEVATIONS HOLDING NOAA/USACE TIDAL BENCHMARK "9455920 TIDAL 16" (PID TT0713/VM#1335) AS 29.79.
6. SOUNDINGS ARE IN FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
7. BATHYMETRY WAS COLLECTED APRIL 29, 2019. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2024 MULTIBEAM ECHOSOUNDER 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 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 SP855 GNSS RECEIVER SET AT CONTROL STATION "TERRA 11", LOCATED ATOP THE PORT OFFICE BUILDING. SURVEY DATA WAS COLLECTED USING QINSY 8.1 SOFTWARE AND PROCESSED USING QIMERA 1.5 SOFTWARE.
8. HORIZONTAL AND VERTICAL CONTROL SURVEY WAS PERFORMED BY USACE IN 2013 AND VERIFIED BY ETRAC INC IN APRIL, 2018 AS PART OF THE DREDGE SURVEY.
10. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
11. MAP SOUNDINGS ARE BINNED AT 30 FEET (SHOAL-BIASED) AND COLOR ELEVATIONS ARE BINNED AT 12 FEET AND ARE SHOAL-BIASED.



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

Gregory W. Gibson (317)

|                                                                                                                                    |                                   |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <br>US Army Corps of Engineers<br>ALASKA DISTRICT |                                   |
| CONTRACT NO. W19HLE-2004                                                                                                           | CONTRACTOR MANDS CONSTRUCTION CO. |
| CITY SEATTLE                                                                                                                       | STATE WASHINGTON                  |
| Drawn By: [Signature]                                                                                                              | Reviewed: [Signature]             |
| Date: 9/20/19                                                                                                                      | Date: 9/20/19                     |
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