

ELEVATION COLOR LEGEND

#	MIN. ELEV.	MAX. ELEV.	COLOR
1	-105.0	-26.0	Light Blue
2	-26.0	-25.0	Dark Blue
3	-25.0	-24.0	Blue
4	-24.0	-23.0	Light Blue
5	-23.0	-22.0	Light Blue
6	-22.0	-21.0	Light Green
7	-21.0	-20.0	Light Green
8	-20.0	-19.0	Light Green
9	-19.0	-18.0	Light Green
10	-18.0	-17.0	Light Green
11	-17.0	-16.0	Light Green
12	-16.0	-15.0	Light Green
13	-15.0	-14.0	Light Green
14	-14.0	-13.0	Light Green
15	-13.0	-12.0	Light Green
16	-12.0	9.0	Light Green

VOLUME COMPUTATIONS

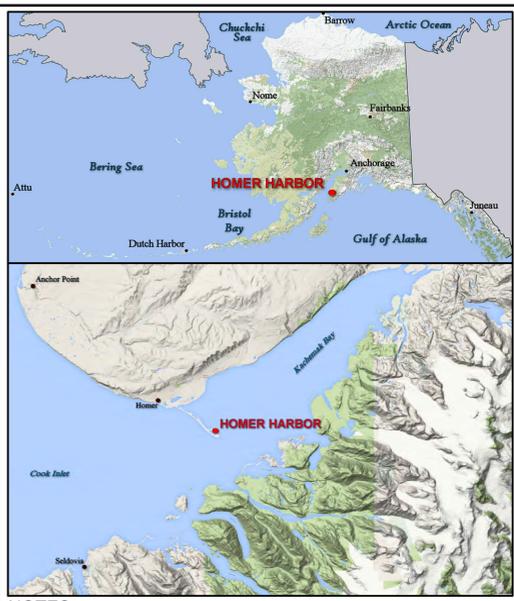
AREA	DESCRIPTION	MLLW (FT)	CU.YD
AREA A: OUTER ENTRANCE CHANNEL	REMOVED TO DREDGE DEPTH (DD)	-20.0	35
	REMOVED BETWEEN DD AND MAX PAY DEPTH (MP)	-21.0	138
	REMOVED SIDE SLOPES (SS) AT 3:1 (H:V) & 25' WIDE	VARIES	104
	TOTAL AREA A		277
AREA B: USCG BASIN AREA	REMOVED TO DD	-22 TO -26	220
	REMOVED BETWEEN DD AND MP	-23 TO -27	99
	REMOVED SS	VARIES	264
AREA C: INNER CHANNEL AREA	REMOVED TO DD	-20.0	643
	REMOVED BETWEEN DD AND MP	-21.0	109
	REMOVED SS	VARIES	1767
AREA D: MANEUVERING AREA (NOT DREDGED)			
AREA E: MANEUVERING AREA (NOT DREDGED)			
AREA F: MANEUVERING AREA (NOT DREDGED)			
TOTAL MAXIMUM VOLUME REMOVED (MP + SS)		VARIES	3379
DREDGED AREA OVERDREDGE (AREA A, B, & C)		VARIES	49
SIDE SLOPE AREA OVERDREDGE (AREA A, B, & C)		VARIES	147

PROJECT LIMITS CURVE DATA

CURVE	RADIUS	ARC LENGTH	DELTA ANGLE
C2	172.88'	149.28'	049°28'29.9"
C3	185.63'	338.77'	104°33'41.9"
C4	95.61'	174.50'	104°34'21.5"
C5	160.18'	208.51'	074°34'49.9"
C6	104.07'	191.44'	105°23'39.2"

PROJECT LIMITS

CORNER#	NORTHING	EASTING
7	2,049,519.03	1,377,882.50
8	2,049,207.15	1,377,683.23
9	2,049,313.35	1,377,517.38
10	2,049,705.59	1,376,903.13
11	2,050,281.01	1,376,002.56
12	2,050,544.76	1,375,589.76
13	2,050,893.93	1,375,219.67
14	2,051,074.98	1,375,335.41
15	2,051,159.30	1,375,389.23
16	2,051,420.46	1,375,556.10
17	2,050,887.56	1,376,390.12
18	2,050,312.15	1,377,290.69
19	2,050,626.40	1,376,223.25
20	2,050,542.13	1,376,169.40
21	2,050,096.16	1,377,152.69
22	2,050,011.48	1,377,098.58
23	2,049,957.99	1,377,876.49
24	2,049,707.99	1,377,696.69
25	2,049,954.10	1,379,383.98
26	2,049,539.77	1,379,277.46
CG1	2,049,621.31	1,379,028.43
CG2	2,049,755.11	1,378,885.74
CG3	2,049,654.76	1,378,791.65
CG4	2,049,481.24	1,378,801.18
CG5	2,049,433.37	1,378,852.25
CG6	2,049,396.89	1,378,818.05
CG7	2,049,526.07	1,378,748.64
CG8	2,049,852.14	1,378,351.33
PC1A	2,049,766.26	1,378,304.02
PC2A	2,049,766.26	1,378,304.02
PC3A	2,049,989.06	1,378,221.58
PC4A	2,049,947.63	1,378,141.68
PC6A	2,049,758.41	1,377,752.69
PL-32	2,050,341.61	1,378,668.97
PL-33	2,050,254.64	1,376,619.37
PRC3B/5A	2,050,041.53	1,377,932.63
PT1B	2,049,896.45	1,378,269.64
PT2B	2,049,855.01	1,378,189.75
PT4B	2,049,974.64	1,377,992.85
PT5B	2,050,025.58	1,377,739.19
PT6B	2,049,593.40	1,377,766.24



- ### NOTES
- PRIMARY PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83 IN US SURVEY FEET BASED ON A FULLY CONSTRAINED STATIC GPS NETWORK HOLDING THE PUBLISHED NAVD83(CORS) 2003.00 EPOCH VALUES OF NOS CORRS STATIONS: 'KENA1 CORRS ARP' (KENA - PID D33029), 'ANCHORAGE CORRS ARP' (TSEA - PID A10952).
 - LOCAL PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83, IN US SURVEY FEET HOLDING MONUMENT 'HOMER BASIN 7 1965' AS N 2,049,712.22, E 1,377,964.36 AND USACE SBC 'BL-2-A' AS N 2,049,793.81, E 1,378,015.52.
 - VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD83 ELEVATIONS HOLDING USACE STANDARD BRASS CAP 'HOMER BASIN 7 1965' (PID BBDX21) AS 26.08'.
 - SOUNDINGS ARE IN U.S. SURVEY FEET AND ARE NEGATIVE UNLESS OTHERWISE INDICATED.
 - BATHYMETRY WAS COLLECTED SEPTEMBER 9, 2018. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2022 MULTIBeam ECHOSOUNDER OPERATING AT 400 KHZ. SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH AN AML BASE X2 SOUND VELOCITY PROBE. POSITION AND VESSEL ORIENTATION WERE MEASURED USING AN APPLIX POS MV SYSTEM. RTK CORRECTIONS WERE BROADCAST FROM A LOCAL BASE STATION OCCUPYING HOMER 'BL-2-A'. DATA WAS COLLECTED AND PROCESSED USING HYPACK 2018 SOFTWARE. HORIZONTAL CONTROL AND VERTICAL CONTROL WAS VERIFIED DURING THE PRE SURVEY. TIDE ELEVATIONS WERE MEASURED USING A TRIMBLE R8 RTK SYSTEM.
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SURVEY CONTROL DATA

STATION	NORTHING	EASTING	MLLW	DESCRIPTION
AUDREY	2,051,507.88	1,375,406.60	33.33	1-1/2 IN ALUMINUM CAP (FOUND)
BL-2-A 1989	2,049,793.81	1,378,015.52	32.53	USACE SBC (FOUND)
BM NO 6 1965			27.28	US&GC SBC (NOT FOUND)
BOLL 1996	2,050,682.88	1,375,195.75	35.51	3-1/4 IN FLAT BRASS CAP (FOUND)
C 103 1965			26.95	US&GC SBC (NOT FOUND)
HB-08 2009	2,050,150.78	1,377,830.73	31.93	3-1/4 IN DOMED ALUMINUM CAP (FOUND)
HB-09 2009	2,051,199.61	1,375,120.24	32.04	3-1/4 IN DOMED ALUMINUM CAP (FOUND)
HOMER BASIN 4 1965	2,050,038.11	1,378,340.09	31.29	USACE SBC (NOT SEARCH)
HOMER BASIN 5 1965	2,049,940.32	1,378,344.30	30.86	USACE SBC (FOUND, NOT GPS SUITABLE)
HOMER BASIN 6 1965	2,049,887.28	1,378,073.96	31.24	USACE SBC (FOUND)
HOMER BASIN 7 1965	2,049,712.22	1,377,964.36	31.49	USACE SBC (FOUND)

NAVIGATION AIDS

USCG NO.	NORTHING	EASTING	DESCRIPTION
26210	2,049,940	1,378,351	HOMER BREAKWATER LIGHT 2
26216	2,049,932	1,378,484	SOUTH LIGHTED MOORING BUOY

OBSTRUCTION IDENTIFIED IN 2015 SURVEY

POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
OBST-1	2,049,999.55	1,378,206.74	7.0'x 3.7'x2.8'	-18
OBST-2	2,050,060.01	1,377,988.53	5.4'x 4.5'x1.7'	-19.7
OBST-3	2,049,935.22	1,378,201.00	4.9'x 2.8'x2.1'	-20.2
OBST-4	2,049,977.06	1,378,080.24	4.8'x 3.2'x2.6'	-16.9

OBSTRUCTION IDENTIFIED IN 2017 SURVEY

POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
OBST-5	2,050,408.82	1,376,457.46	8.4'x 3.0'x1.6'	-14.2
OBST-6	2,050,281.55	1,376,791.11	9.2'x 7.1'x2.7'	-12.1
OBST-7	2,049,908.41	1,377,315.59	7.1'x3.2'x1.6'	-18.4
OBST-8	2,049,972.34	1,377,366.67	11.2'x 6.0'x.9'	-18.6
OBST-9	2,051,079.04	1,375,309.96	3.8'x 3.8'x2.6'	-9.3
OBST-10	2,050,751.35	1,375,979.40	3.8'x 2.7'x1.1'	-11.6
OBST-11	2,050,671.74	1,376,070.56	6.0'x 3.0'x1.7'	-10.9
OBST-12	2,049,862.17	1,378,295.83	8.4'x 5.7'x3.5'	-17.9
OBST-13	2,049,739.30	1,378,817.19	4.7'x 2.0'x2.6'	-17.5
OBST-14	2,049,827.53	1,378,786.35	7.3'x 4.8'x3.4'	-17
OBST-15	2,050,655.65	1,376,121.46	3.5'x3.1'x1.2'	-11.7

CONTRACT NO. W11H617-C-0007
 CONTINUATION ALASKA MARINE EXCAVATION
 CITY ANCHORAGE STATE ALASKA
 Recommendation: Approved Date: _____
 DRAWN BY: _____
 CHECKED BY: _____
 APPROVED BY: _____
 DATE: _____

U.S. ARMY CORPS OF ENGINEERS
 ALASKA DISTRICT
 JBER, ALASKA 99506-0888
 HUGHES & ASSOCIATES
 4901 COTTE LOOP
 WASILLA, ALASKA 99654

HOMER, ALASKA
 HOMER HARBOR
 POST DREDGE SURVEY
 SEPTEMBER 9, 2018

SHEET IDENTIFICATION
 2-HOM-92-07-66
 Sheet 4 of 6

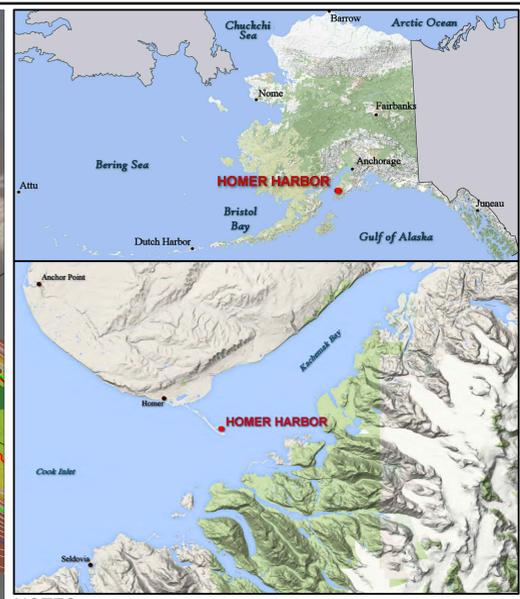
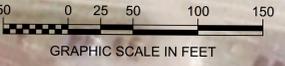
THIS HYDROGRAPHIC SURVEY WAS COMPLETED UNDER THE OVERSIGHT OF AN ACSMITHOSIA CERTIFIED HYDROGRAPHER

 CORY S. HUGHES (C 045)





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10	-18.0	-17.0	Yellow
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 - VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW=0.0'), BASED ON THE NOAA/NGS TIDAL BENCH MARK LIST FOR STATION "465 6557, HOMER, ALASKA, PUBLISHED 08/11/2009". THIS TIDAL DATUM IS BASED ON THE 1983-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING SBC "BL-2-A" AS 32.53'.
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U.S. Army Corps of Engineers - ALASKA DISTRICT

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 CONTINUATION: ALASKA MARINE EXCAVATION
 CITY: ANCHORAGE POINT STATE: ALASKA
 Recommendation: _____ Date: _____
 Approved: _____
 License No.: _____
 Date: _____

U.S. ARMY CORPS OF ENGINEERS
 ALASKA DISTRICT
 JBER, ALASKA 99506-0888

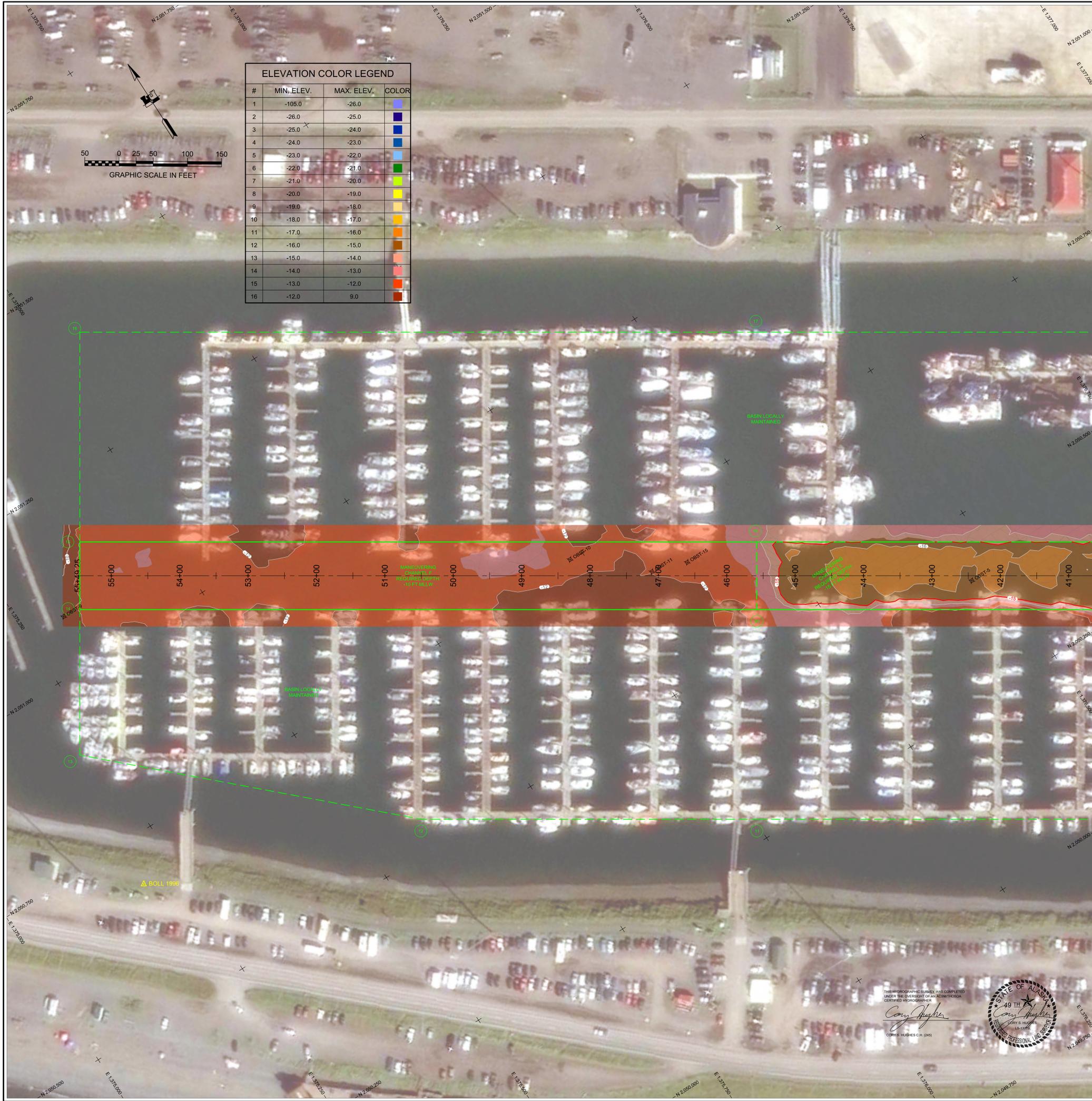
HUGHES & ASSOCIATES
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**HOMER, ALASKA
 HOMER HARBOR
 POST DREDGE SURVEY
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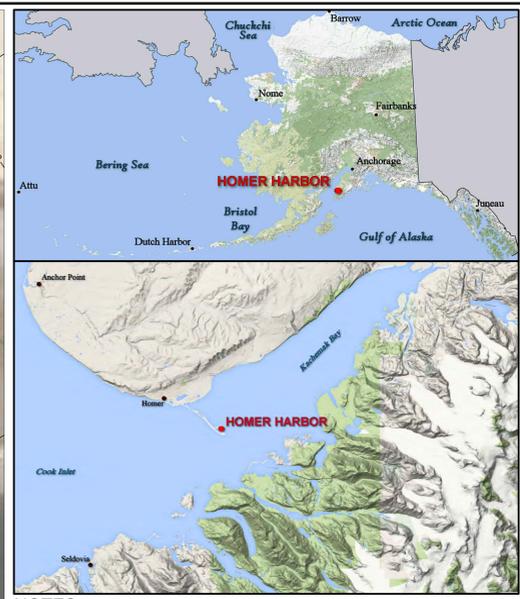
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POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
OBST-1	2,049,999.55	1,378,206.74	7.0'x 3.7'x2.8'	-18
OBST-2	2,050,060.01	1,377,988.53	5.4'x 4.5'x1.7'	-19.7
OBST-3	2,049,935.22	1,378,201.00	4.9'x 2.8'x2.1'	-20.2
OBST-4	2,049,977.06	1,378,080.24	4.8'x 3.2'x2.6'	-16.9

OBSTRUCTION IDENTIFIED IN 2017 SURVEY				
POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
OBST-5	2,050,408.82	1,376,457.46	8.4'x 3.0'x1.6'	-14.2
OBST-6	2,050,281.55	1,376,791.11	9.2'x 7.1'x2.7'	-12.1
OBST-7	2,049,908.41	1,377,315.59	7.1'x3.2'x1.6'	-18.4
OBST-8	2,049,972.34	1,377,366.67	11.2'x 6.0'x.9'	-18.6
OBST-9	2,051,079.04	1,375,309.96	3.8'x 3.8'x2.6'	-9.3
OBST-10	2,050,751.35	1,375,979.40	3.8'x 2.7'x1.1'	-11.6
OBST-11	2,050,671.74	1,376,070.56	6.0'x 3.0'x1.7'	-10.9
OBST-12	2,049,862.17	1,378,295.83	8.4'x 5.7'x3.5'	-17.9
OBST-13	2,049,739.30	1,378,817.19	4.7'x 2.0'x2.6'	-17.5
OBST-14	2,049,827.53	1,378,786.35	7.3'x 4.8'x3.4'	-17
OBST-15	2,050,655.65	1,376,121.46	3.5'x3.1'x1.2'	-11.7

CONTRACT NO. W11H617-C-0007
 CONTINUATION: ALASKA MARINE ENCANTATION
 CITY: ANCHORAGE STATE: ALASKA
 Recommendation: _____ Date: _____
 Approved: _____
 Date: _____

U.S. ARMY CORPS OF ENGINEERS
 ALASKA DISTRICT
 JBER, ALASKA 99506-0888
 HUGHES & ASSOCIATES
 5001 COTTLE LOOP
 WASILLA, ALASKA 99654

HOMER, ALASKA
 HOMER HARBOR
 POST DREDGE SURVEY
 SEPTEMBER 9, 2018

SHEET IDENTIFICATION
 2-HOM-92-07-66
 Sheet 6 of 6