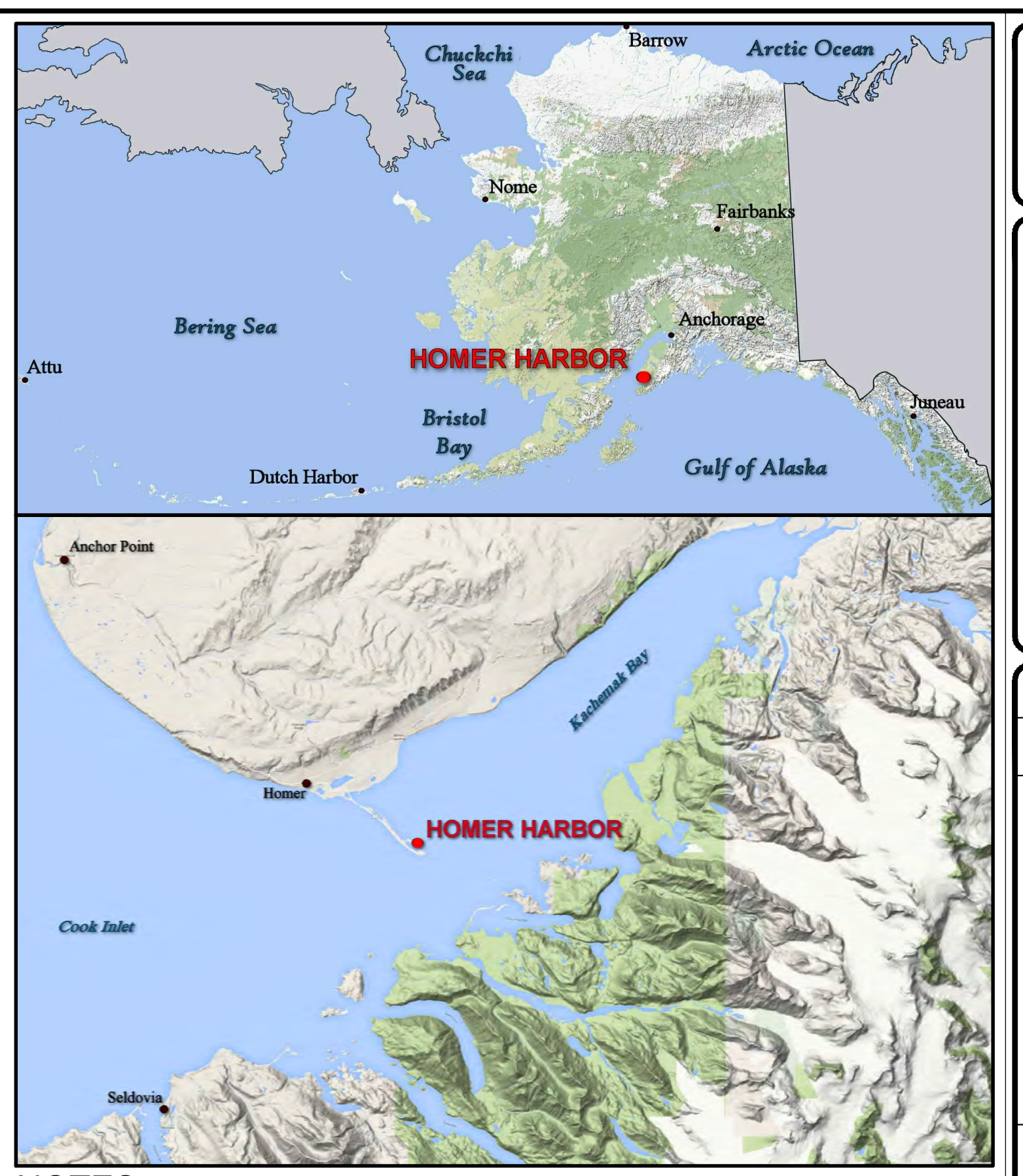


CURVE	RADIUS	ARC LENGTH	DELTA ANGLE
C2	172.88'	149.28'	049°28'29.9"
C3	185.63'	338.77'	104°33'41.9"
C4	95.61'	174.50'	104°34'21.5"
C5	160.18'	208.51'	074°34'49.9"
C6	104.07'	191.44'	105°23'39.2"

AREA A: OUTER ENTRANCE CHANNEL	MLLW (FT)	CU.YD
AVAILABLE TO DREDGE DEPTH (DD)	-20.0	146
AVAILABLE BETWEEN DD AND MAX PAY DEPTH (MP)	-21.0	1125
AVAILABLE SIDE SLOPES (SS) AT 3:1 (HV) & 2:1 WIDE	VARIABLES	469
AREA B: USCG BASIN AREA		
AVAILABLE TO DD	-22 TO -26	348
AVAILABLE BETWEEN DD AND MP	-23 TO -27	392
AVAILABLE SS	VARIABLES	1050
AREA C: INNER CHANNEL AREA		
AVAILABLE TO DD	-20.0	755
AVAILABLE BETWEEN DD AND MP	-21.0	953
AVAILABLE SS	VARIABLES	3303
AREA D: MANEUVERING AREA		
AVAILABLE TO DD	-20.0	328
AVAILABLE BETWEEN DD AND MP	-21.0	1854
AVAILABLE SS	VARIABLES	24
AREA E: MANEUVERING AREA		
AVAILABLE TO DD	-15.0	221
AVAILABLE BETWEEN DD AND MP	-16.0	818
AVAILABLE SS	VARIABLES	80
AREA F: MANEUVERING AREA		
AVAILABLE TO DD	-10.0	9
AVAILABLE BETWEEN DD AND MP	-11.0	20
AVAILABLE SS	VARIABLES	1
TOTAL MAXIMUM VOLUME AVAILABLE (MP + SS)	VARIABLES	11895
DREDGED AREA OVERDREDGE (AREA A, B, & C)	VARIABLES	
SIDE SLOPE AREA OVERDREDGE (AREA A, B, & C)	VARIABLES	

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	2,049,823.34	1,377,690.34
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
CG8	2,049,526.07	1,378,746.64
PC1A	2,049,852.14	1,378,351.33
PC2A	2,049,766.26	1,378,304.02
PC3A	2,049,989.05	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	1,376,668.97
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



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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)

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

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

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

US Army Corps of Engineers - ALASKA DISTRICT

CONTRACT NO. W11HE17C-0007
 CONTINUATION ALASKA MARINE ENGINEERING
 CITY ANCHORAGE STATE ALASKA
 PROJECT HOMER HARBOR PRE DREDGE SURVEY
 SHEET IDENTIFICATION 2-HOM-92-07-65
 SHEET 1 OF 6

DATE: AUGUST 22, 2018

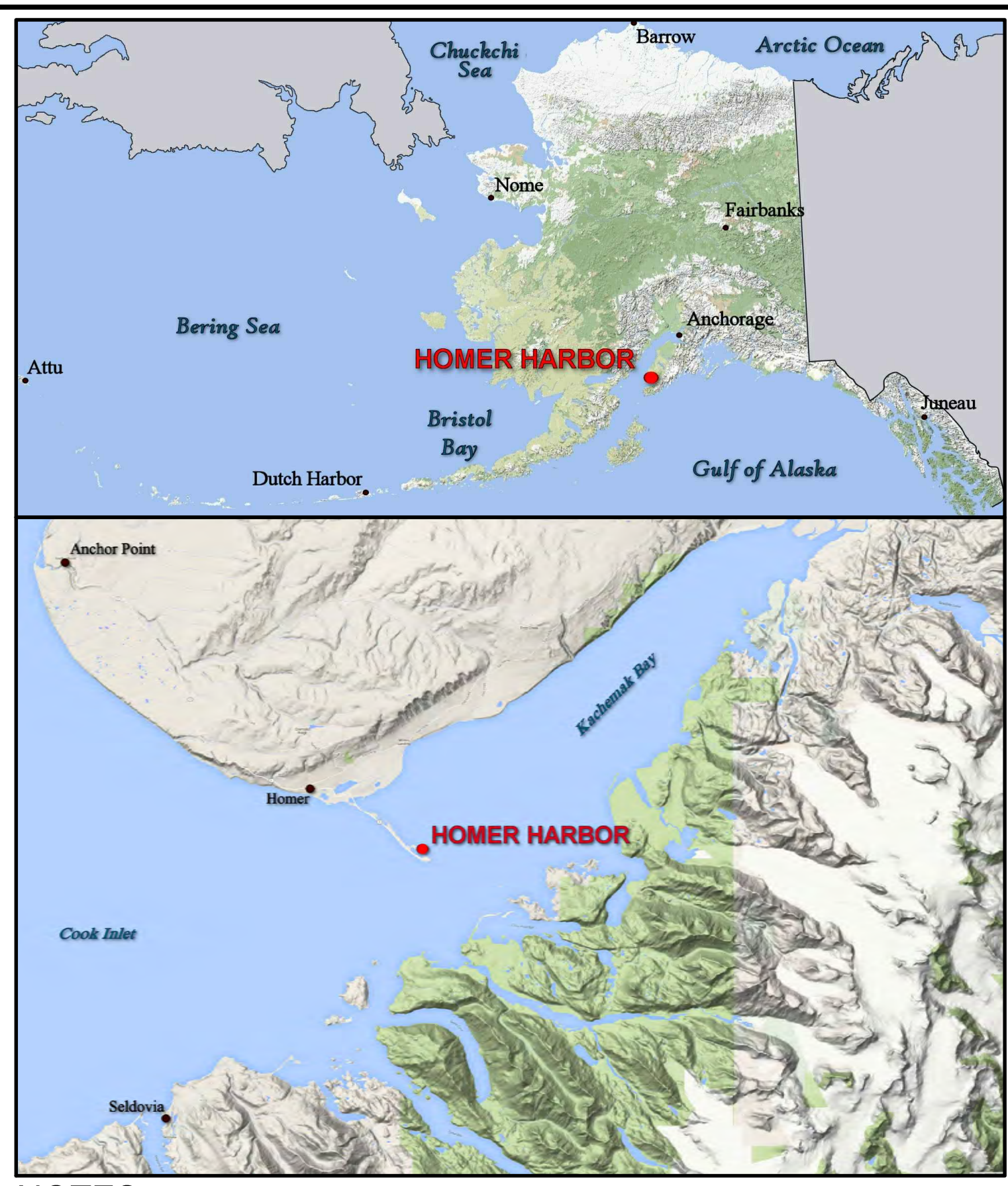
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**HOMER, ALASKA
 HOMER HARBOR
 PRE DREDGE SURVEY
 AUGUST 22, 2018**

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

Cory Hughes
 CORY S. HUGHES C.H. (048)

STATE OF ALASKA
 49th
 CORY S. HUGHES
 LICENSE NO. 180-0000000



- 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 MADS/CORS) 2008.00 EPOCH VALUES OF NOS CORS STATIONS: "KENAI 5 CORS ARP" (KEN5 - PID DJ3029), "ANCHORAGE CORS 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.
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OBSTRUCTION IDENTIFIED IN 2015 SURVEY

POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
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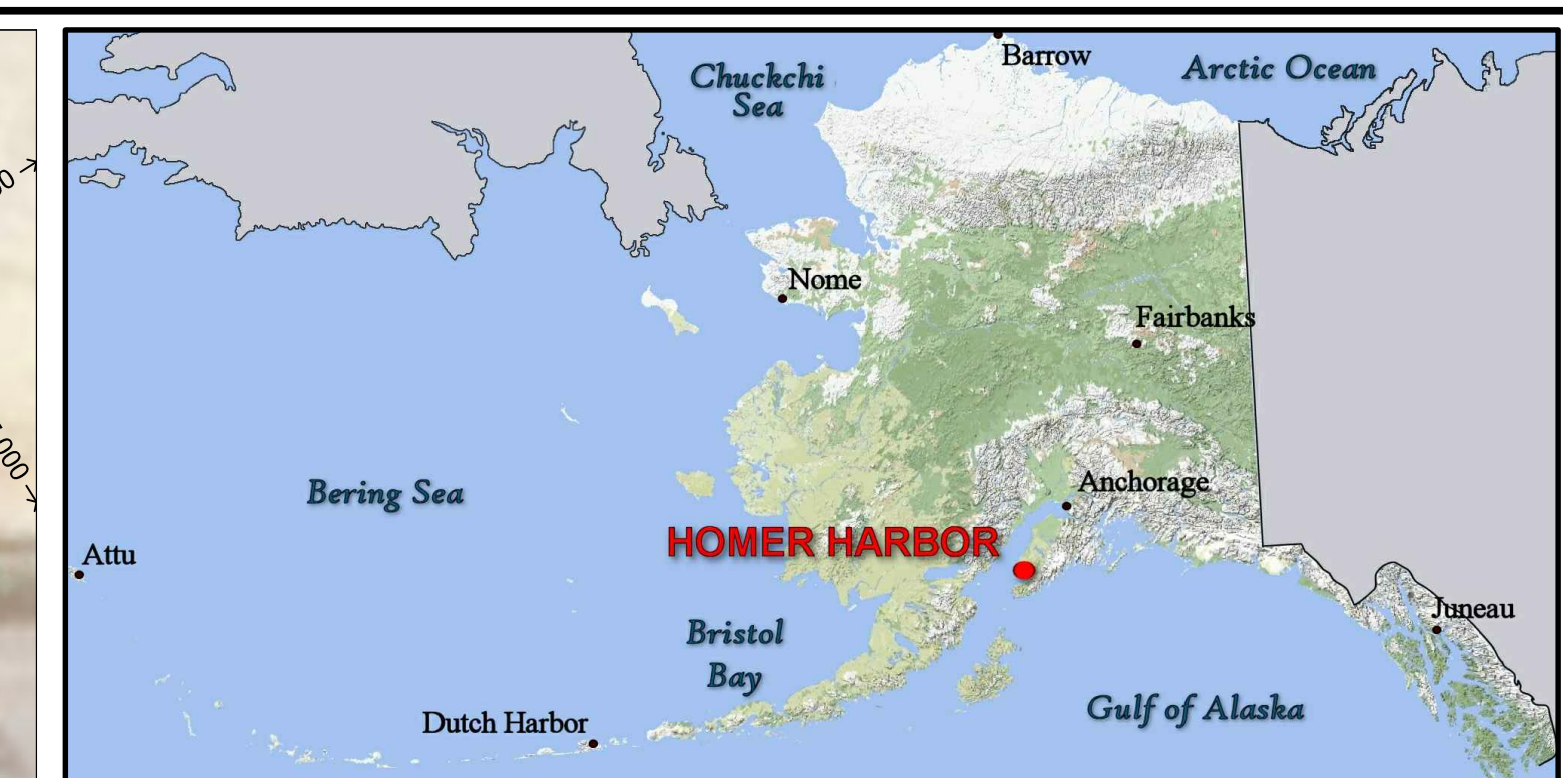
**U.S. ARMY CORPS OF ENGINEERS
ALASKA DISTRICT**

**HOMER, ALASKA
HOMER HARBOR
PRE DREDGE SURVEY
AUGUST 22, 2018**

SHEET IDENTIFICATION

2-HOM-92-07-65

Sheet 2 of 6



NOTES

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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
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U.S. ARMY CORPS OF ENGINEERS - ALASKA DISTRICT

CONTRACT NO. W11HE17C0007
 CONTINUATION: ALASKA MARINE ENGINEERING
 CITY: ANCHORAGE
 STATE: ALASKA
 APPROVED: [Signature] DATE: [Blank]
 RECOMMENDED: [Signature] DATE: [Blank]

NO.	DATE	BY	DESCRIPTION

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

DESIGNED BY: [Blank] DATE: 11/20/2018
 DRAWN BY: [Blank] DATE: [Blank]
 CHECKED BY: [Blank] DATE: [Blank]
 APPROVED BY: [Signature] DATE: [Blank]
 (Professional Engineer Seal: HUGHES & ASSOCIATES, CIVIL ENGINEERING, WASILLA, ALASKA 99564)

**HOMER, ALASKA
 HOMER HARBOR
 PRE DREDGE SURVEY
 AUGUST 22, 2018**

SHEET IDENTIFICATION

2-HOM-92-07-65
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