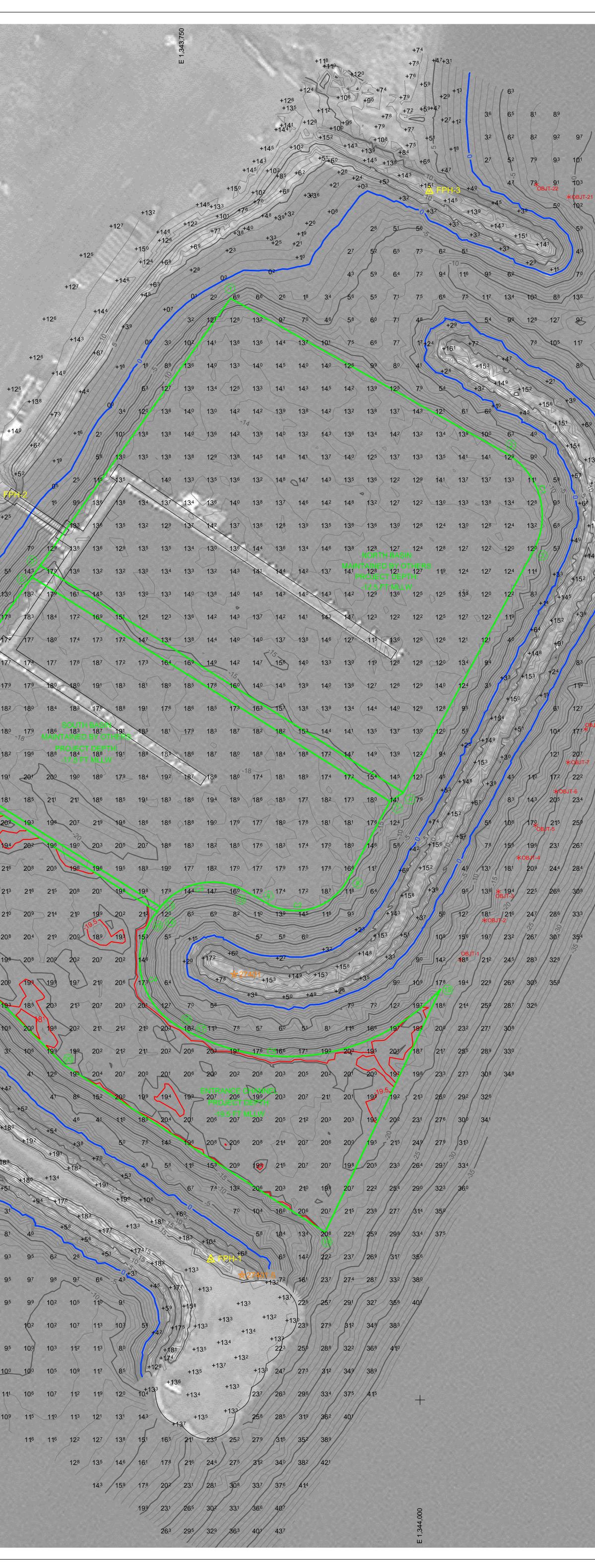
			E 1,343,250		E 1,343,500
		PROJECT		E DATA (FT)	ш
CURVE	RADIUS	ARC LENGTH			CHORD LENGTH
C1	75.81	117.61	88°53'15"	N16°11'19"W	106.17
C2 C3	61.73 69.47	99.41 98.14	92°16'13" 80°56'37"	N74°29'07"E S79°01'04"W	89.01
C3 C4	79.98	98.14 138.85	99°28'23"	S12°48'15"E	90.18 122.06
C5	218.23	285.10	74°51'09"	N79°58'42"E	265.26
		VOLUME C		NS MLLW=0 CU. YI	D.
	AVAILABLI AVAILABLI	E TO PROJECT DE E TO MAX PAY DE	PTH (PD) PTH (MP)	-19.5 85 -20.5 974	
		SLOPES (SS) AT 3:1 I VOLUME AVAI	(H:V) & 25' WIDE LABLE (MP+SS)	VARIES 1,750 2,724	
					\mathbf{y}
	3				
(C)	÷.,)	e	$+$ \sim		/+
	5.	19.0			1 +1
					+130
					+13.1 +14.5
		1		+1 +12. ⁷	+146 +136 +58 +2
				+12.2	+14.4 +6.4 +2.5
				+13 +117 +128	4 +5. ¹ +6. ⁴ +1 ⁷
				+128 +140 +128 +141	+4.4 +1.9 6.8
			+11.4	$+11^7$ $+12^4$ $+6^1$ $+127$ $+71$	+0.6 4.1 12.7
			+11.3	+11.3 +12.9 +7.1	108 178
			+11	+110 +116 +109 +47	16.3 19.3
			▲ F 21112 +111 +111 +114		
			+10.5 +12.5 +11.1 +11.1 +11.2	+120 +176 +92	20.6 200 INACCESSIBLE 19.1 19.7
		+12	+1 +119	1 ⁶ +14.0 +18.0 +7.6 +12.4	19. 19. ⁷
	1	+11 ⁷ +11 ⁸	+11 ⁴ +11 ² +11 ⁸ +11 ¹ +11 ⁶	5 +13 ^{,8} +17 ⁷ +8 ^{,8}	+6.
	1	+	+11 ¹ +10 ⁸ +10 ⁸ +10 ⁵ +10 ⁸	+13.4 +14.0 +13.2 +17.8 +5	+3.8
		+12.0	+10.3 +101+167	+13.6 +13.7 +13.8 +17.2 +13.8	+3.8 10.4 20.6
			0.4 +9.7 +9.7 +9.7 +9.5 +8.8 +10.2	+178 +13.6 +16.0 +172	
		+10.2	+86 +74 +97 +72	+18.4 +14.5	+3.8 6.5 19.2
1		+111/	+9.5 +81 +83 +6.0 +481 +18	+6.6 +142 +14.5 +48 +3.9 +3.5 +13.8+14.2 +48	+0.9 4.6 137
		+10.2 +9	+77 +59 +38	+0,0 4 +16 +10.7 +1.5	2.1 9.2 3.9
		+9.4 +9.0 +8.0 +8.5 +		2.9 4.5 5.4	+4 ⁶ +14 ⁶ +9 ⁸
		+3.1	+14 25	4.9 5.9 4.6 6.0	+132 +145 +182
			4.1	50 5.8 5.9 50	+12 23 +162
1.				5,5 6,2 7,1 6,7	+32 3.8 +4.8 +1
	19. A			6.5 6.8 7.6	49 3.1 +440 +4.9
				7.1 7.2	7.6 6.2 3.8
2			+	7.3	7.5 6.4 5.6 3.7 77 78 79 81
					7.7 7.8 7.9 8.1 7.9 8.0 8.1 8.3
					7.9 8.0 8.1 8.3 8.1 8.2 8.6
					8. ⁶
			+		+
			E 1,343,250		E 1,343,500



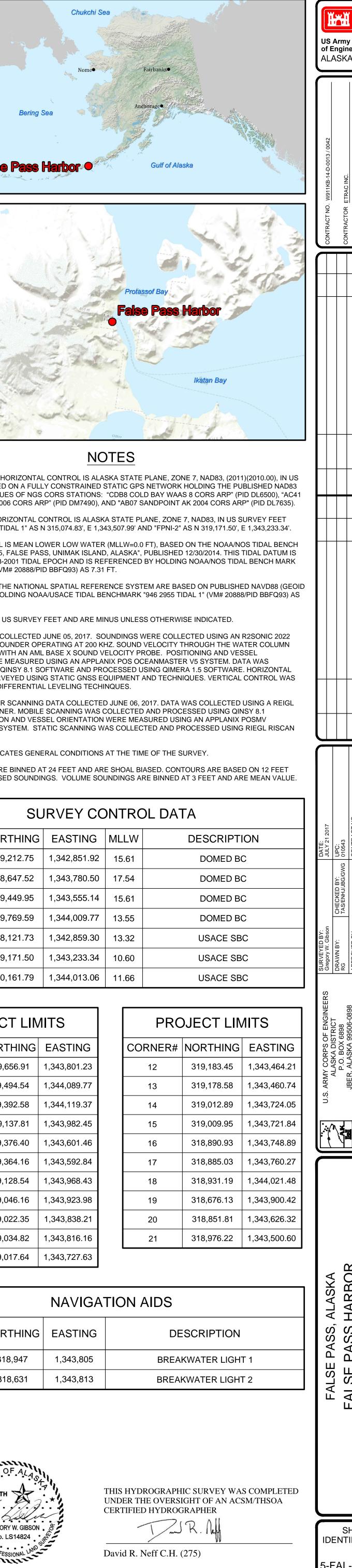
E 1,344,250					E 1,344,500				Chukchi Se	
								Bering	Nome	
11.3 11.3							34. ~``	Dening		
1 1. ² 1 1. ⁸	120							False Pass	Harbor •	September 1995
11 ⁹ 12 ⁰ JT-20 12.4 12.4	12 ² 13 ¹ 15 ³				+	N 319,750	Oil Creek	5 -	1. 1	
	14.4 16.1						.>			4
12.6 12.8	15.7 17.5								123 3	ALL A
10. ² 150 14.9 15.3	16 ^{.5} 18 ^{.2} 21 ^{.2} 16 ^{.1} 18 ^{.6} 22 ^{.9}						NV/		851 m	
	16.1 18.6 22.9 16.5 19.2 22.4	(12			Pa
13.0 14.5 [-19	16.8 19.8 22.9	24.1					ISANOTSKI PEAKS			
TOBJT-18	17.4 20.5 22.5						112		They :	1ª
*OE	17.5 20.2 23.2 BJT-17 17.5 21.8 23.9	/ {								Otter
11.8	0BJT-16 182 218 235	25.4 27.7			+	N 319,500			NC	DTE
10.5 C						1	SURVEY FEE 2010.00 EPOC	DJECT HORIZONTA F BASED ON A FUL CH VALUES OF NGS	LY CONSTRAINED CORS STATIONS:	STATIC "CDB8
	17.3 * 23 .1 25.2	2 26.9 29.3	316				LOCAL PROJE	R AK 2006 CORS AI ECT HORIZONTAL (3 2955 TIDAL 1" AS	CONTROL IS ALASK	A STAT
41	18.4 232 *OBJT-14 26.5 19.7 23.7 27.5		32.6			2	2. VERTICAL CC MARK LIST "9	NTROL IS MEAN LO 46 2955, FALSE PAS	OWER LOW WATER SS, UNIMAK ISLANI	R (MLLW D, ALAS
6.0 93	08JT-13 21.4 24.1 28.2	2 30.2 31.6				3	"946 2955 TID. 3. VERTICAL TIE	IE 1983-2001 TIDAL AL 1" (VM# 20888/P ES TO THE NATION,	ID BBFQ93) AS 7.31 AL SPATIAL REFER	FT.
R *	24.3 25.3 28.8 OBJT-12	30.6 33.0					7.75 FT.	ONS HOLDING NOA ARE IN US SURVEY		
0BJT-11	24.0 26.4 29.4 25 ² 28 ² 31 ⁵					5	5. BATHYMETRY MULTIBEAM E	WAS COLLECTED CHOSOUNDER OP	JUNE 05, 2017. SC ERATING AT 200 K	DUNDIN HZ. SOI
216 242 0BJT-10	26.9 300 328						ORIENTATION COLLECTED U CONTROL WA	NWERE MEASUREI JSING QINSY 8.1 S AS SURVEYED USIN	D USING AN APPLA OFTWARE AND PRO IG STATIC GNSS E	NIX PO OCESSI QUIPME
BJT-9	288 317 338 300 323	3			+	N 319,250 6	6. TERRESTRIA VZ400 LASER SOFTWARE. F	SING DIFFERENTIA LASER SCANNING SCANNER. MOBILI POSITION AND VES	B DATA COLLECTE E SCANNING WAS (SEL ORIENTATION	D JUNE COLLEC WERE
25.9 29.3	31.5					7	2.3 SOFTWAR	ER V5 SYSTEM. ST E. G INDICATES GEN		
	33,1					8		NGS ARE BINNED A AL-BIASED SOUNDI		
288 326 317 349								SI	JRVEY CC	DNT
33.8		SUBMERC			ТΔ		STATION	NORTHING	EASTING	MLL
35.8	ID	NORTHING			APPROX		14C C8 L2 FPH-1	319,212.75 318,647.52	1,342,851.92 1,343,780.50	15.6 17.5
	OBJT-1	318,962.6	1,344,042.4	-13.0	SIZE (FEET) 5X5X4		FPH-2	319,449.95	1,343,555.14	15.6
	OBJT-2	319,003.7	1,344,067.7	-13.2	5X5X4		FPH-3 FPNI-1	319,769.59 318,121.73	1,344,009.77 1,342,859.30	13.5 13.3
+	OBJT-3	319,034.0 319,069.5	1,344,082.1 1,344,103.6	-13.7 -14.4	5X5X4 5X5X4	N 319,000	FPNI-2	319,171.50	1,343,233.34	10.6
	OBJT-5	319,009.3	1,344,121.1	-14.4	5X5X4		FPNI-3	320,161.79	1,344,013.06	11.6
	OBJT-6	319,139.1	1,344,142.6	-14.9	5X5X4					Г
	OBJT-7	319,169.7	1,344,155.4	-14.6	5X5X4		PRC		IITS	
	OBJT-8 OBJT-9	319,204.3 319,233.4	1,344,173.8 1,344,192.8	-15.8 -14.7	5X5X4 5X5X4		CORNER#	NORTHING	EASTING	(
	OBJT-10	319,270.2	1,344,213.7	-16.7	5X5X4	2.429	2	319,656.91 319,494.54	1,343,801.23 1,344,089.77	\vdash
	OBJT-11	319,301.6	1,344,229.2	-16.6	5X5X4		3	319,392.58	1,344,119.37	
	OBJT-12	319,338.9	1,344,248.7	-16.0	5X5X4		4	319,137.81	1,343,982.45	F
	OBJT-13	319,372.1	1,344,259.2	-14.6	5X5X4		5	319,376.40	1,343,601.46	
	OBJT-14	319,413.5	1,344,272.3	-16.3	5X5X4		6	319,364.16	1,343,592.84	
+	OBJT-15 OBJT-16	319,446.8 319,490.5	1,344,271.1 1,344,259.8	-15.6 -13.7	5X5X4 5X5X4	N 318,750	7	319,128.54	1,343,968.43	-
	OBJT-17	319,523.7	1,344,244.3	-12.0	5X5X4		8	319,046.16 319,022.35	1,343,923.98	\vdash
	OBJT-18	319,558.9	1,344,215.9	-7.8	5X5X4		9 10	319,034.82	1,343,816.16	\vdash
	OBJT-19	319,585.4	1,344,186.8	-6.8	5X5X4		11	319,017.64	1,343,727.63	L
	OBJT-20	319,735.2	1,344,188.5	-7.3	5X5X4					
	OBJT-21 OBJT-22	319,763.4 319,776.5	1,344,156.2 1,344,122.1	-6.3 -4.3	5X5X4 5X5X4				NAVIGA	TIO
			٨				USCG NO.	NORTHING	EASTING	
			4				27401	318,947	1,343,805	
							27401.5	318,631	1,343,813	
+					+	N 318,500				
								TE.OF.ALA	b	

100

GRAPHIC SCALE IN FEET

150

GREGORY W. GIBSON No. LS14824



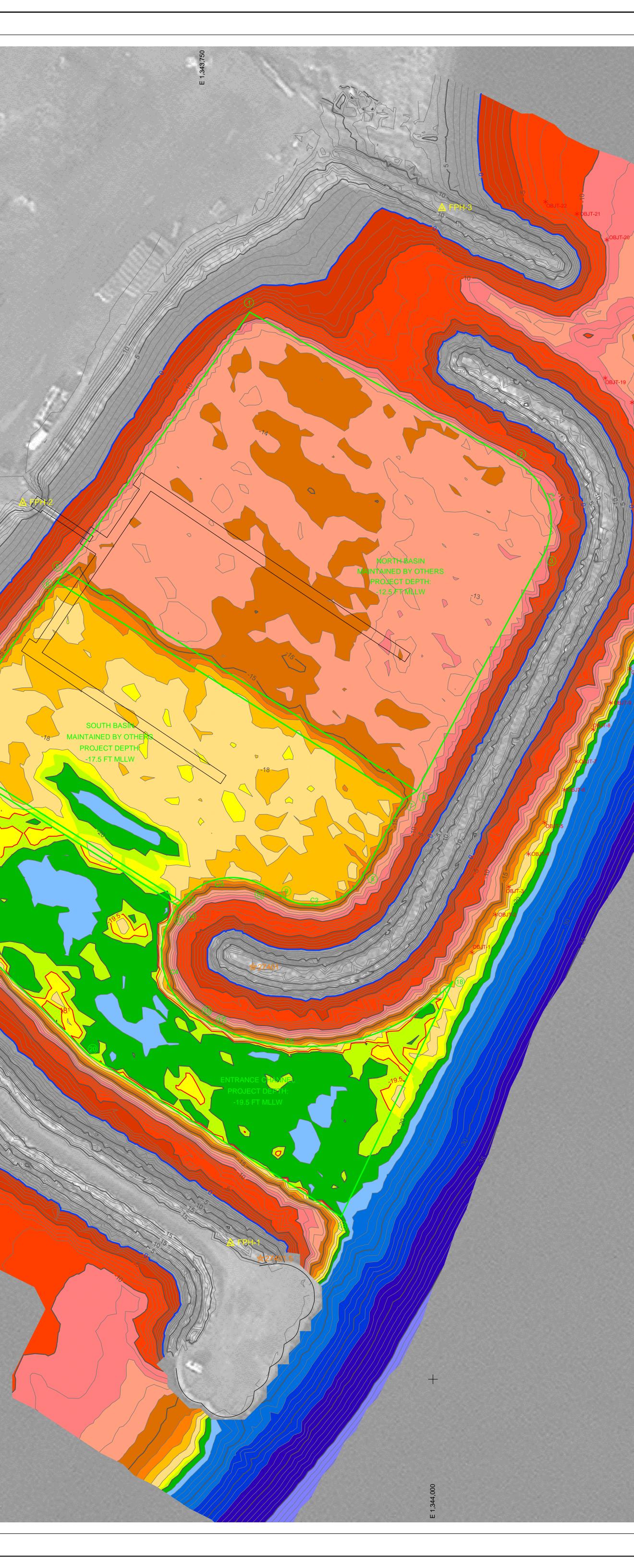
				E 1,343,250			Н 1 313 500			
			PROJECT	LIMITS CURV	VE DATA (F	-T)				
	CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEA	RING	CHORD LENGTH			
	C1 75.81		117.61	88°53'15"	N16°11'19"	W	106.17			
	C2	61.73	99.41	92°16'13"	N74°29'07"	E	89.01			
	C3	69.47	98.14	80°56'37"	S79°01'04"'	W	90.18			
	C4	79.98	138.85	99°28'23"	S12°48'15"	E	122.06			
319,750	C5	218.23	285.10	285.10 74°51'09"		'E	265.26			
	VOLUME COMPUTATIONS									
		AREA A:	ENTRANCE CH		MLLW=0	CU. `	YD.			
			E TO PROJECT DE		-19.5	85				
		AVAILABL	E TO MAX PAY DE	-20.5	974	4				
	AVA	ILABLE SIDE S	LOPES (SS) AT 3:	VARIES	1,75	50				
	TOTA	24								
	ELE	EVATION	COLOR LE	GEND						
	# 1	MIN. ELEV.	MAX. ELE	V. COLOR		·				
	# []	-60.0	MAX. ELE -40.0	V. COLOR						
				V. COLOR						
	1	-60.0	-40.0	V. COLOR			7			
	1 2	-60.0 -40.0	-40.0	V. COLOR						
319,500	1 2 3	-60.0 -40.0 -32.0	-40.0 -32.0 -27.0	V. COLOR						
19,500	1 2 3 4	-60.0 -40.0 -32.0 -27.0	-40.0 -32.0 -27.0 -22.0	V. COLOR						
319,500	1 2 3 4 5	-60.0 -40.0 -32.0 -27.0 -22.0	-40.0 -32.0 -27.0 -22.0 -21.0	V. COLOR						
319,500	1 2 3 4 5 6	-60.0 -40.0 -32.0 -27.0 -22.0 -21.0	-40.0 -32.0 -27.0 -22.0 -21.0 -20.0	V. COLOR						
319,500	1 2 3 4 5 6 7	-60.0 -40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -20.0	-40.0 -32.0 -27.0 -22.0 -21.0 -20.0 -19.5	V. COLOR						
319,500	1 2 3 4 5 6 7 8	-60.0 -40.0 -32.0 -27.0 -22.0 -21.0 -20.0 -19.5	-40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -20.0 -19.5 -19.0	V. COLOR						
319,500	1 2 3 4 5 6 7 8 9	-60.0 -40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -20.0 -19.5 -19.0	-40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -20.0 -19.5 -19.0 -18.0	V. COLOR						
319,500	1 2 3 4 5 6 7 8 9 10	-60.0 -40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -20.0 -19.5 -19.0 -18.0	-40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -21.0 -20.0 -19.5 -19.0 -18.0 -17.0							
319,500	1 2 3 4 5 6 7 8 9 10 11	-60.0 -40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -20.0 -19.5 -19.0 -18.0 -18.0 -17.0	-40.0 -32.0 -27.0 -22.0 -21.0 -20.0 -19.5 -19.0 -18.0 -17.0 -16.0							
319,500	1 2 3 4 5 6 7 8 9 10 11 12	-60.0 -40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -20.0 -19.5 -19.0 -19.0 -18.0 -17.0 -16.0	-40.0 -32.0 -27.0 -22.0 -21.0 -21.0 -20.0 -19.5 -19.0 -19.0 -18.0 -17.0 -16.0 -14.0							
319,500	1 2 3 4 5 6 7 8 9 10 11 12 13	-60.0 -40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -20.0 -19.5 -19.0 -19.0 -18.0 -17.0 -16.0 -14.0	-40.0 -32.0 -27.0 -27.0 -22.0 -21.0 -21.0 -20.0 -19.5 -19.0 -19.0 -18.0 -17.0 -16.0 -14.0 -14.0							

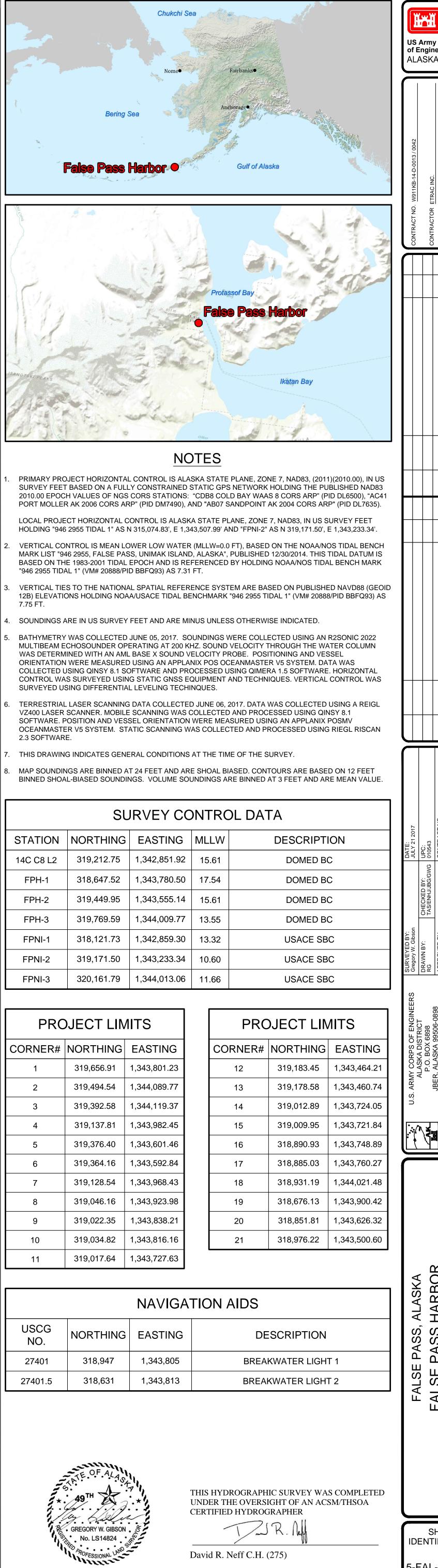
N 319,250

N 319,000

N 318,750

N 318,500





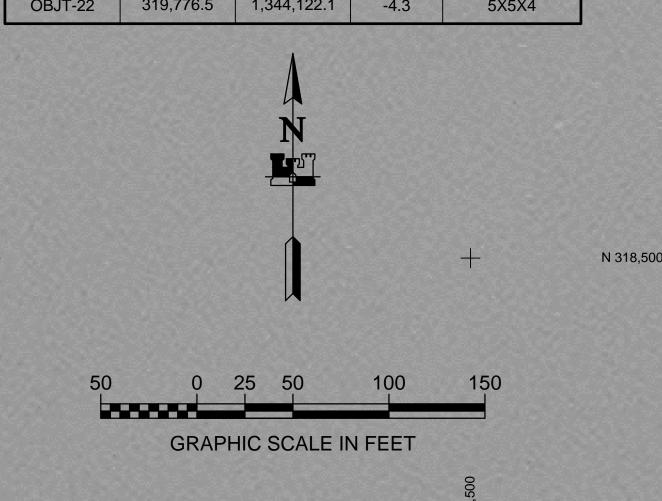
		SURVEY CONT					
	STATION	NORTHING	EASTING	MLL			
	14C C8 L2	319,212.75	1,342,851.92	15.6			
	FPH-1	318,647.52	1,343,780.50	17.5			
	FPH-2	319,449.95	1,343,555.14	15.6			
	FPH-3	319,769.59	1,344,009.77	13.5			
0	FPNI-1	318,121.73	1,342,859.30	13.3			
	FPNI-2	319,171.50	1,343,233.34	10.6			
	FPNI-3	320,161.79	1,344,013.06	11.6			

	PRC	DJECT LIN	JECT LIMITS				
С	ORNER#	NORTHING	EASTING				
	1	319,656.91	1,343,801.23				
	2	319,494.54	1,344,089.77				
	3	319,392.58	1,344,119.37				
	4	319,137.81	1,343,982.45				
	5	319,376.40	1,343,601.46				
	6	319,364.16	1,343,592.84				
	7	319,128.54	1,343,968.43				
	8	319,046.16	1,343,923.98				
	9	319,022.35	1,343,838.21				
	10	319,034.82	1,343,816.16				
	11	319,017.64	1,343,727.63				

		NAVIGA	TIO
USCG NO.	NORTHING	EASTING	
27401	318,947	1,343,805	
27401.5	318,631	1,343,813	



		SUBMERC	SED OBJE	ECT DA	ТА
	ID	NORTHING	EASTING	DEPTH	APPROX SIZE (FEET)
	OBJT-1	318,962.6	1,344,042.4	-13.0	5X5X4
L. aller	OBJT-2	319,003.7	1,344,067.7	-13.2	5X5X4
	OBJT-3	319,034.0	1,344,082.1	-13.7	5X5X4
1.121.1	OBJT-4	319,069.5	1,344,103.6	-14.4	5X5X4
A DOM	OBJT-5	319,103.4	1,344,121.1	-14.0	5X5X4
	OBJT-6	319,139.1	1,344,142.6	-14.9	5X5X4
	OBJT-7	319,169.7	1,344,155.4	-14.6	5X5X4
	OBJT-8	319,204.3	1,344,173.8	-15.8	5X5X4
	OBJT-9	319,233.4	1,344,192.8	-14.7	5X5X4
P . P .	OBJT-10	319,270.2	1,344,213.7	-16.7	5X5X4
	OBJT-11	319,301.6	1,344,229.2	-16.6	5X5X4
1.000	OBJT-12	319,338.9	1,344,248.7	-16.0	5X5X4
	OBJT-13	319,372.1	1,344,259.2	-14.6	5X5X4
	OBJT-14	319,413.5	1,344,272.3	-16.3	5X5X4
	OBJT-15	319,446.8	1,344,271.1	-15.6	5X5X4
	OBJT-16	319,490.5	1,344,259.8	-13.7	5X5X4
	OBJT-17	319,523.7	1,344,244.3	-12.0	5X5X4
	OBJT-18	319,558.9	1,344,215.9	-7.8	5X5X4
in the second	OBJT-19	319,585.4	1,344,186.8	-6.8	5X5X4
L. D. L. S.	OBJT-20	319,735.2	1,344,188.5	-7.3	5X5X4
	OBJT-21	319,763.4	1,344,156.2	-6.3	5X5X4
	OBJT-22	319,776.5	1,344,122.1	-4.3	5X5X4



N 319,250

N 319,00

N 31

N 319,500

N 319,750

US Army Corps of Engineers ® ALASKA DISTRICT									
	CONTRACT NO. W911KB-14-D-0013 / 0042		CONTRACTOR ETRACINC		CITY WASH IA STATE ALASKA		Recommended: Approved: Date:	MICHAEL E. MUELLER Thomas A. Sloan 07/21/2017	CHIEF GEOMATICS SECTION
									BY APPVD
									DESCRIPTION
									APPVD REVISION DATE
									BY APF
									DESCRIPTION
									REVISION DATE
Y: DATE: DATE:	-		TAS/ENHJ/JBG/GWG 010543	-	Thomas A. Sloan, Cheif Geomatics Section W911KB-14-D-0013 / 0042			FILE NAME:	010543_VH-01.DWG
SURVEYED BY:	GIEGUIY W. GIDSUI		LKAWN BY: RG	APPROVED BY:	Thomas A. Sloar	SCALE.	1" = 50'	SIZE: FIL	
ILS ARMY CORPS OF ENGINEERS		ALAONA UISTRICT	P.O. BOX 6898	JBER, ALASKA 99506-0898		eTrac Inc	617 S. Knik-Goose Bav Rd. Ste C	Wasilla AK, 99654	
		N							
FALSE PASS, ALASKA FALSE PASS HARBOR PROJECT CONDITION SURVEY JUNE 05-06, 2017									
			NT	HE IF	IC	A	TI	-	

Sheet 2 of 2