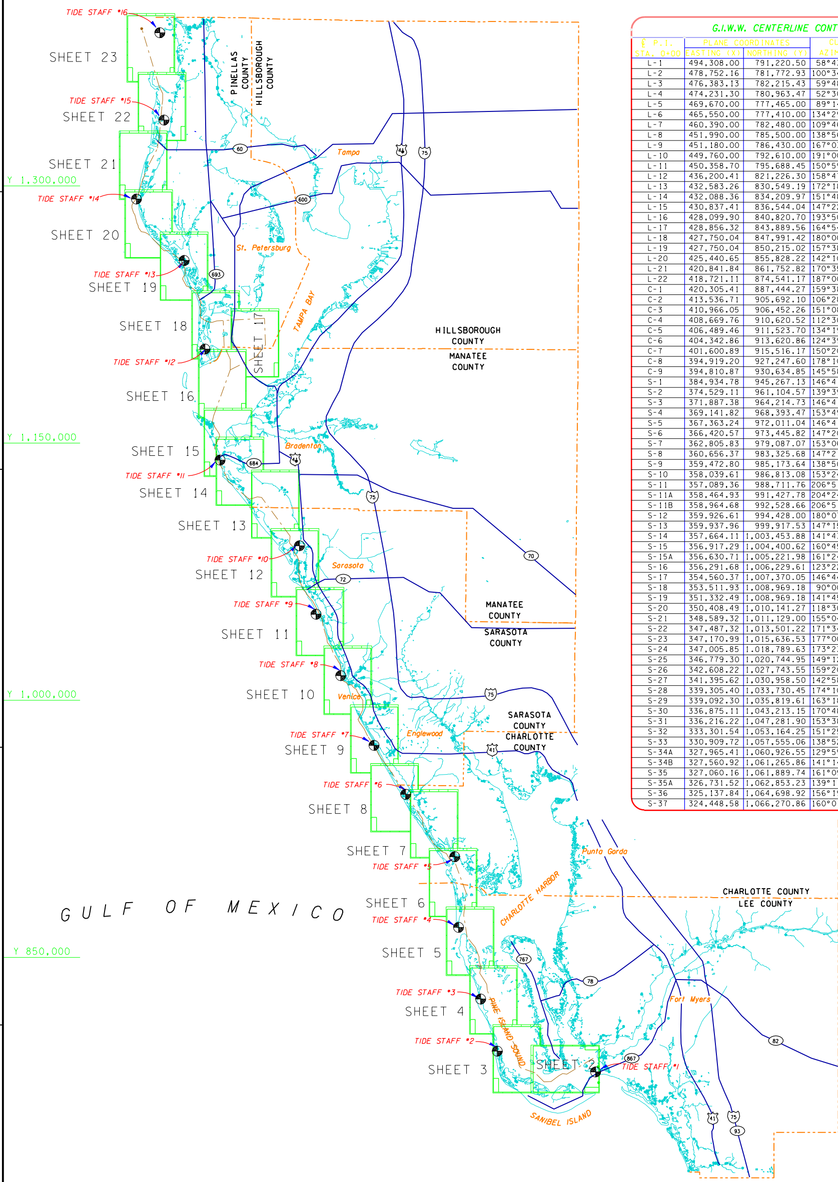
5 | 4 | 3 | 2 | 1



SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

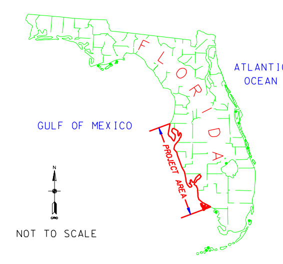
G.I.W.W. CENTERLINE CONTROL

℄ P.I.	PLANE COORDINATES		CUT	ENDING
STA. 0+00	EASTING (X)	NORTHING (Y)	AZIMUTH	STATION
L-1	494,308.00	791,220.50	58°43'42"	182+00.00
L-2	478,752.16	781,772.93	100°34'48"	24+10.00
L-3	476,383.13	782,215.43	59°48'31"	24+89.53
L-4	474,231.30	780,963.47	52°30'44"	57+48.45
L-5	469,670.00	777,465.00	89°14'07"	41+20.37
L-6	465,550.00	777,410.00	134°29'45"	72+33.98
L-7	460,390.00	782,480.00	109°46'29"	89+26.39
L-8	451,990.00	785,500.00	138°56'43"	12+33.29
L-9	451,180.00	786,430.00	167°03'34"	63+41.04
L-10	449,760.00	792,610.00	191°00'20"	31+36.13
L-11	450,358.70	795,688.45	150°59'45"	292+00.01
L-12	436,200.41	821,226.30	158°47'40"	100+00.00
L-13	432,583.26	830,549.19	172°18'05"	36+94.08
L-14	432,088.36	834,209.97	151°48'39"	26+48.16
L-15	430,837.41	836,544.04	147°22'36"	50+79.78
L-16	428,099.90	840,820.70	193°50'46"	31+60.71
L-17	428,856.32	843,889.56	164°54'23"	42+48.42
L-18	427,750.04	847,991.42	180°00'00"	22+23.60
L-19	427,750.04	850,215.02	157°38'12"	60+69.70
L-20	425,440.65	855,828.22	142°10'50"	75+00.00
L-21	420,841.84	861,752.82	170°35'03"	129+63.00
L-22	418,721.11	874,541.17	187°00'00"	130+00.00
C-1	420,305.41	887,444.27	159°38'55"	194+62.44
C-2	413,536.71	905,692.10	106°28'24"	26+80.70
C-3	410,966.05	906,452.26	151°08'57"	47+58.92
C-4	408,669.76	910,620.52	112°30'06"	23+59.97
C-5	406,489.46	911,523.70	134°19'57"	30+00.99
C-6	404,342.86	913,620.86	124°39'14"	33+33.21
C-7	401,600.89	915,516.17	150°20'10"	135+00.79
C-8	394,919.20	927,247.60	178°10'05"	33+88.98
C-9	394,810.87	930,634.85	145°58'57"	176+53.35
S-1	384,934.78	945,267.13	146°41'38"	189+50.00
S-2	374,529.11	961,104.57	139°39'21"	40+80.66
S-3	371,887.38	964,214.73	146°41'38"	50+00.00
S-4	369,141.82	968,393.47	153°49'08"	40+31.15
S-5	367,363.24	972,011.04	146°41'38"	17+16.68
S-6	366,420.57	973,445.82	147°20'58"	67+00.00
S-7	362,805.83	979,087.07	153°06'35"	47+52.47
S-8	360,656.37	983,325.68	147°21'41"	21+94.49
S-9	359,472.80	985,173.64	138°50'24"	21+77.57
S-10	358,039.61	986,813.08	153°24'47"	21+23.19
S-11	357,089.36	988,711.76	206°51'38"	30+44.51
S-11A	358,464.93	991,427.78	204°24'57"	12+09.00
S-11B	358,964.68	992,528.66	206°51'36"	21+29.05
S-12	359,926.61	994,428.00	180°07'06"	54+89.54
S-13	359,937.96	999,917.53	147°15'33"	42+04.31
S-14	357,664.11	1,003,453.88	141°43'57"	12+05.84
S-15	356,917.29	1,004,400.62	160°45'56"	8+69.92
S-15A	356,630.71	1,005,221.98	161°24'14"	10+63.14
S-16	356,291.68	1,006,229.61	123°22'24"	20+73.16
S-17	354,560.37	1,007,370.05	146°44'59"	19+12.18
S-18	353,511.93	1,008,969.18	90°00'00"	21+79.44
S-19	351,332.49	1,008,969.18	141°45'00"	14+92.50
S-20	350,408.49	1,010,141.27	118°30'00"	20+70.02
S-21	348,589.32	1,011,129.00	155°04'59"	26+15.69
S-22	347,487.32	1,013,501.22	171°34'24"	21+58.61
S-23	347,170.99	1,015,636.53	177°00'07"	31+57.42
S-24	347,005.85	1,018,789.63	173°23'27"	19+68.40
S-25	346,779.30	1,020,744.95	149°12'20"	81+47.27
S-26	342,608.22	1,027,743.55	159°20'05"	34+36.02
S-27	341,395.62	1,030,958.50	142°58'53"	34+71.70
S-28	339,305.40	1,033,730.45	174°10'33"	21+00.00
S-29	339,092.30	1,035,819.61	163°18'25"	77+18.83
S-30	336,875.11	1,043,213.15	170°48'05"	41+21.76
S-31	336,216.22	1,047,281.90	153°38'30"	64+64.86
S-32	333,301.54	1,053,164.25	151°25'17"	50+00.00
S-33	330,909.72	1,057,555.06	138°52'10"	44+76.15
S-34A	327,965.41	1,060,926.55	129°59'30"	5+27.96
S-34B	327,560.92	1,061,265.86	141°14'51"	7+99.99
S-35	327,060.16	1,061,889.74	161°09'57"	10+18.00
S-35A	326,731.52	1,062,853.23	139°11'26"	24+38.52
S-36	325,137.84	1,064,698.92	156°19'25"	17+16.41
S-37	324,448.58	1,066,270.86	160°01'20"	29+84.35

G.I.W.W. CENTERLINE CONTROL

℄ P.I.	PLANE COORDINATES		CUT	ENDING
STA. 0+00	EASTING (X)	NORTHING (Y)	AZIMUTH	STATION
S-38	323,428.96	1,069,075.63	169°01'19"	14+15.32
S-39	323,159.44	1,070,465.05	171°49'49"	38+50.04
S-40	322,612.33	1,074,276.02	183°48'27"	40+08.69
S-41	322,878.54	1,078,275.86	178°38'38"	29+09.99
S-42	322,809.67	1,081,185.03	157°35'09"	33+66.25
S-43	321,526.12	1,084,296.96	135°49'45"	18+87.36
S-44	320,211.01	1,085,650.70	174°46'45"	32+92.77
S-45	319,911.22	1,088,929.79	134°48'44"	34+55.24
S-46	317,460.00	1,091,365.00	161°25'06"	8+12.09
S-47	317,201.22	1,092,134.76	187°00'00"	34+96.95
S-48	317,627.39	1,095,605.64	143°31'38"	280+99.02
M-1	300,924.24	1,118,201.26	97°29'40"	24+73.86
M-2	298,471.51	1,118,523.93	71°57'42"	30+10.39
M-3	295,609.08	1,117,591.75	83°27'30"	20+00.00
M-4	293,622.10	1,117,363.90	129°58'00"	157+49.38
M-5	281,551.48	1,127,480.41	157°04'00"	79+35.40
M-6	278,459.37	1,134,788.59	144°24'28"	42+08.95
M-7	276,009.72	1,138,211.22	163°49'41"	89+84.96
M-8	273,507.22	1,146,840.65	187°57'25"	16+57.66
M-9	273,736.69	1,148,482.35	209°08'44"	34+64.26
M-10	275,570.00	1,151,770.00	200°26'08"	25+31.57
M-11	276,453.91	1,154,142.25	169°58'20"	14+04.00
M-12	276,209.44	1,155,524.80	145°49'53"	45+00.00
M-13	273,682.10	1,159,248.05	155°37'02"	35+47.41
M-14	272,217.62	1,162,479.06	192°43'05"	34+25.04
M-15	272,971.66	1,165,820.06	200°05'04"	285+13.79
H-1	282,763.42	1,192,599.86	242°58'20"	166+61.07
H-2	297,604.86	1,200,171.05	217°58'49"	90+58.16
P-1	303,179.13	1,207,310.91	178°21'04"	153+86.65
P-2	302,736.38	1,222,691.19	86°48'50"	280+00.00
P-2A	274,779.67	1,221,134.98	75°16'37"	30+00.00
P-2B	271,878.17	1,220,372.54	98°58'27"	28+48.36
P-3	269,064.69	1,220,816.84	123°36'57"	41+67.06
P-4	265,594.48	1,223,123.78	155°10'21"	8+52.13
P-5	265,236.68	1,223,897.15	186°43'43"	25+45.09
P-6	265,534.88	1,226,424.71	169°59'55"	27+95.13
P-7	265,049.44	1,229,177.36	192°20'00"	28+75.56
P-8	265,663.65	1,231,986.56	156°49'27"	72+18.00
P-9	262,822.98	1,238,622.07	131°36'14"	22+44.10
P-10	261,144.95	1,240,112.10	108°54'47"	42+54.35
P-11	257,120.30	1,241,491.08	151°24'02"	46+50.56
P-12	254,894.16	1,245,574.22	194°04'09"	12+69.50
P-13	255,202.77	1,246,805.64	217°07'50"	18+68.44
P-14	256,330.62	1,248,295.28	179°27'15"	31+78.44
P-15	256,300.34	1,251,473.57	155°36'30"	56+61.75
P-16	253,962.20	1,256,630.00	128°30'50"	91+70.00
P-17	246,787.07	1,262,340.19	83°54'05"	24+96.20
P-18	244,305.00	1,262,075.00	129°50'29"	27+92.58
P-19	242,160.80	1,263,864.10	148°42'00"	14+12.79
P-20	241,426.80	1,265,071.30	135°51'04"	95+24.80
P-21	234,792.54	1,271,905.65	117°16'54"	22+29.83
P-22	232,810.75	1,272,927.73	99°20'10"	20+49.17
P-23	230,788.72	1,273,260.15	146°04'39"	30+36.72
P-24	229,094.00	1,275,780.00	177°54'44"	13+23.00
P-25	229,045.80	1,277,102.12	141°18'00"	11+80.00
P-26	228,308.00	1,278,023.03	166°48'46"	52+38.10
P-27	227,113.00	1,283,123.00	149°25'36"	14+00.00
P-28	226,400.90	1,284,328.40	161°04'11"	28+85.01
P-29	225,465.00	1,287,057.30	178°14'02"	18+02.51
P-30	225,409.40	1,288,859.00	206°18'34"	15+63.32
P-31	226,102.30	1,290,260.40	220°48'01"	20+94.44
P-32	227,470.85	1,291,845.80	205°21'57"	43+34.65
P-33	229,327.80	1,295,762.60	196°08'01"	63+07.82
P-34	231,080.60	1,301,822.00	201°30'54"	114+77.75
P-35	235,290.00	1,312,500.00	207°52'34"	108+17.67
P-36	240,347.94	1,322,062.40	182°58'44"	21+31.38
P-37	240,458.70	1,324,190.90	192°08'33"	39+95.41
P-38A	241,299.11	1,328,096.92	184°41'37"	192+38.51
P-38B	242,873.35	1,347,270.91	190°36'36"	27+62.85
P-39	243,382.06	1,349,986.52	180°00'00"	39+88.66
P-40	243,382.06	1,353,975.18	152°51'55"	45+39.01
P-41	241,311.89	1,358,014.61	163°07'16"	350+07.14

LOCATION MAP



NOTES:

1. REFER TO SURVEY NO. 98-C052.

2. THIS HYDROGRAPHIC SURVEY WAS PERFORMED FROM AUGUST 26 THROUGH SEPTEMBER 23, 1998.

3. SOUNDINGS ARE IN FEET AND TENTHS AND ARE RELATIVE TO MEAN LOWER LOW WATER (MLLW) DATUM.

4. SOUNDINGS WERE COLLECTED USING AN INNERSPACE MODEL 448, SINGLE FREQUENCY, SURVEY GRADE FATHOMETER.

5. FOR VESSEL POSITIONING A TRIMBLE RS/DS, REAL-TIME DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS) WAS USED. DIFFERENTIAL CORRECTIONS WERE OBTAINED FROM THE EGMONT KEY, FLORIDA U.S. COAST GUARD BEACON SYSTEM (BROADCAST SITE ID: 812).

6. PLANE COORDINATES PROVIDED HEREIN ARE IN FEET AND RELATIVE TO THE NORTH AMERICAN DATUM OF 1927 (NAD 27), TRANSVERSE MERCATOR PROJECTION FOR FLORIDA, WEST ZONE (0902).

7. ALL AZIMUTHS DEPICTED HEREIN ARE GRID; RECKONED CLOCKWISE FROM SOUTH.

8. TIDE REDUCTIONS WERE MADE FROM OBSERVATIONS AT TIDE STAFFS SET RELATIVE TO MLLW DATUM AND REFERENCED TO THE BENCHMARKS DEPICTED ON THIS SHEET.

9. PLAN VIEW ELEVATIONS SHOWN HEREIN ARE BELOW THE REFERENCE PLANE, MLLW, UNLESS PRECEDED BY A PLUS (+) SIGN.

10. AIDS TO NAVIGATION IN AND ADJACENT TO THE SURVEY AREA WERE LOCATED DURING THE CONDUCT OF THIS SURVEY.

11. LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR RIGHTS-OF-WAY, EASEMENTS, OWNERSHIP OR OTHER INSTRUMENTS OF RECORD.

12. UNDERGROUND AND SUBAQUEOUS IMPROVEMENTS AND/OR UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY AND SHOULD BE FIELD VERIFIED PRIOR TO ANY DREDGING OR CONSTRUCTION ACTIVITIES.

13. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

14. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SURVEY ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.

15. REFER TO RAW FIELD DATA:
DEPTH SOUNDER (FATHOMETER) ROLLS DATED AUGUST 26 THROUGH SEPTEMBER 23, 1998.
FIELD BOOK NUMBERS 98-IWW CR 2 AR NO. 19, 20, 21, 22, 23, 24.

16. THESE MAPS WERE REVIEWED AND CHECKED BY KENNETH C. JACKSON, P.S.M.

ABBREVIATIONS

NGVD	NATIONAL GEODETIC VERTICAL DATUM OF 1929
MLLW	MEAN LOWER LOW WATER
P.I.	POINT OF INTERSECTION
STA.	STATION
G.I.W.W.	GULF INTRACOASTAL WATERWAY
COE	CORPS OF ENGINEERS
NOS	NATIONAL OCEAN SERVICE
USC&GS	UNITED STATES COASTAL AND GEODETIC STATION
SRD	STATE ROAD DEPARTMENT
AZ	AZIMUTH

TIDE STAFF CONTROL

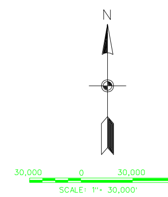
STAFF NUMBER	BENCHMARK	EL (MLLW)
1	NOS 5391 G 1984	3.87
	LEE CO. AL 6	15.57
2	USC&GS BM 2 1961	4.80
	USC&GS BM 3 1961	3.48
3	NOS 5488K 1989	3.02
	NOS 5488F 1978	2.94
4	COE PHOSPHATE 1990	6.72
	COE BG 17 1991	7.57
5	NOS 5667B 1977	9.11
	NOS 5667C RESET 1982	11.10
6	COE IWCH 21 1965	27.69
	SRD SW	13.06
7	NOS 5809A 1977	6.53
	NOS 5809E 1977	8.56
8	NOS 1784B15 R111	6.99
	NOS 5899A 1989	6.09
9	NOS 5985A 1977	4.23
	NOS 5985B 1977	4.20
10	NOS 6083B 1977	3.86
	NOS 6083A 1977	3.89
11	NOS 6217C 1977	5.35
	FL DOT 6217E	10.87
12	NOS 6385A 1976	5.84
	NOS 6385B 1976	5.84
13	NOS 6538A 1976	6.32
	NOS 6538B 1976	6.56
14	NOS 6643E 1976	8.49
	NOS 6643F 1976	9.54
15	USC&GS NO. 4	8.49
	USC&GS NO. III	6.71
16	NOS NO. 1 1975	5.31
	NOS NO. 2 1975	11.14

HORIZONTAL CONTROL

CONTROL POINT	PLANE COORDINATES	
	EASTING (X)	NORTHING (Y)
JEWFISH 2	494,389.62	797,862.66
PHOSPHATE	415,495.66	867,394.89
01-82-A04	382,602.30	941,610.23
17-84-A19	312,187.12	1,083,321.16
15-90-DA-23	243,294.10	1,258,901.50
IWPI 15	240,833.71	1,324,233.41
TEMP	240,383.07	1,320,647.63
JUNGLE	255,796.45	1,256,427.88

SURVEY LEGEND

⊕	TIDE STAFF
△	CONTROL POINT
□ / △	STATIONARY BEACON
	NAVIGATION INFORMATION
LIGHT (TYPICAL) / BELL (TYPICAL)	FLOATING BUOY
— - —	CENTERLINE OF CHANNEL
— —	TOE OF CHANNEL
℄	CENTERLINE
	AREAS SHOALER THAN (-)9 FEET, MLLW



SEA SYSTEMS CORPORATION
WILLIAM T. SADLER JR., P.E., P.S.M.
FLORIDA LICENSED SURVEYOR AND MAPPER NO. 5859
CERTIFICATE OF AUTHORIZATION NO. LB 5861

PREPARED BY:
CHIEF, SURVEY SECTION
APPROVAL RECOMMENDED:
CHIEF, OPERATION TECHNICAL SUPPORT BRANCH
APPROVED:
CHIEF, CONSTRUCTION-OPERATIONS DIVISION

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
COVER

INV. No. : | SIZE F | DRAWING NO.
DATED:

DWN BY: D.J. MOSS | CKD. BY: K.C. JACKSON | SCALE: AS SHOWN | DATED: OCT 1998 | SHEET 1 OF 23

5 | 4 | 3 | 2 | D.O. FILE NO. 41-37, 687

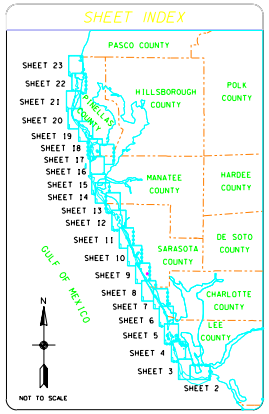
SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

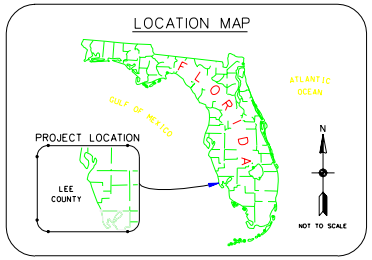
X 460,000 X 465,000 X 470,000 X 475,000 X 480,000

Y 795,000 Y 790,000 Y 785,000 Y 780,000 Y 775,000

SHEET INDEX



LOCATION MAP

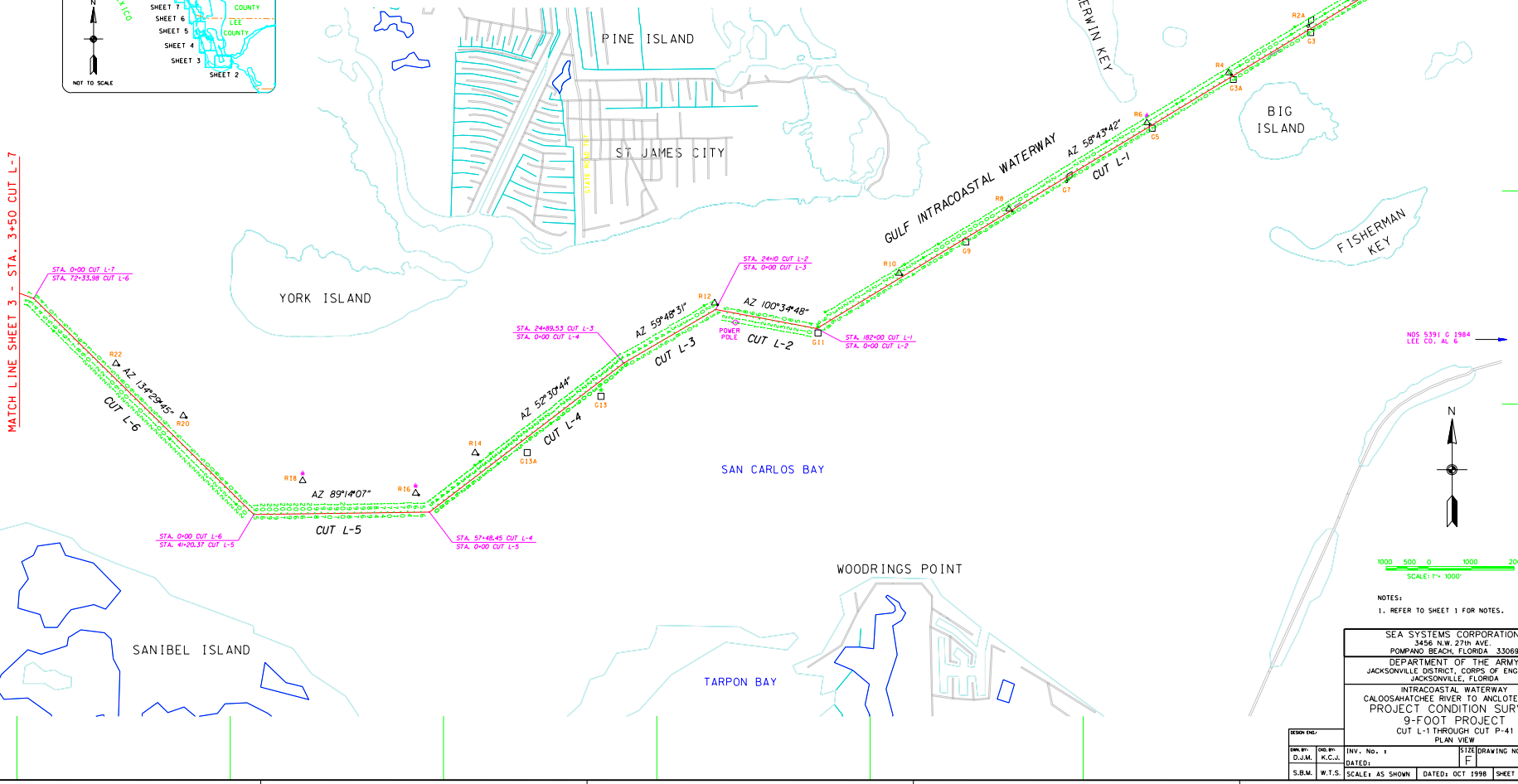


AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G101	494,537	791,321	26°30'38.93"	82°01'00.14"	9/12/98
G1	493,218	790,384	26°30'29.64"	82°01'14.66"	9/12/98
R2	492,119	789,984	26°30'25.68"	82°01'26.75"	9/12/98
R2A	490,271	788,868	26°30'14.62"	82°01'47.09"	9/12/98
G3	490,329	788,708	26°30'13.04"	82°01'46.46"	9/12/98
R4	488,404	787,779	26°30'03.83"	82°02'07.64"	9/12/98
G3A	488,516	787,606	26°30'02.12"	82°02'06.41"	9/12/98
R6	486,492	786,596	26°29'52.11"	82°02'28.68"	9/12/98
G5	486,612	786,463	26°29'50.79"	82°02'27.36"	9/12/98
G7	484,602	785,220	26°29'38.47"	82°02'49.48"	9/12/98
R8	483,256	784,583	26°29'32.16"	82°03'04.30"	9/12/98
G9	482,246	783,795	26°29'24.35"	82°03'15.41"	9/12/98
R10	480,680	783,080	26°29'17.26"	82°03'32.64"	9/12/98
R12	476,356	782,385	26°29'10.35"	82°04'20.23"	9/12/98
POLE	476,845	781,912	26°29'05.67"	82°04'14.84"	9/12/98
G11	478,780	781,668	26°29'03.27"	82°03'53.54"	9/12/98
R22	462,316	780,966	26°28'56.20"	82°06'54.74"	9/12/98
G13	473,692	780,181	26°28'48.51"	82°04'49.53"	9/12/98
R20	463,896	779,742	26°28'44.09"	82°06'37.34"	9/12/98
R14	470,738	778,871	26°28'35.52"	82°05'22.03"	9/12/98
G13A	471,960	778,858	26°28'35.40"	82°05'08.58"	9/12/98
R18	466,696	778,205	26°28'28.89"	82°06'06.51"	9/12/98
R16	469,344	777,912	26°28'26.01"	82°05'37.37"	9/12/98

G.I.W.W. CENTERLINE CONTROL

P. T. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
L-1	494,308.00	791,220.50
L-2	478,752.16	781,772.93
L-3	476,383.13	782,215.43
L-4	474,231.30	780,963.47
L-5	469,670.00	777,465.00
L-6	465,550.00	777,410.00
L-7	460,390.00	782,480.00



NOTES:

1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 2 OF 23

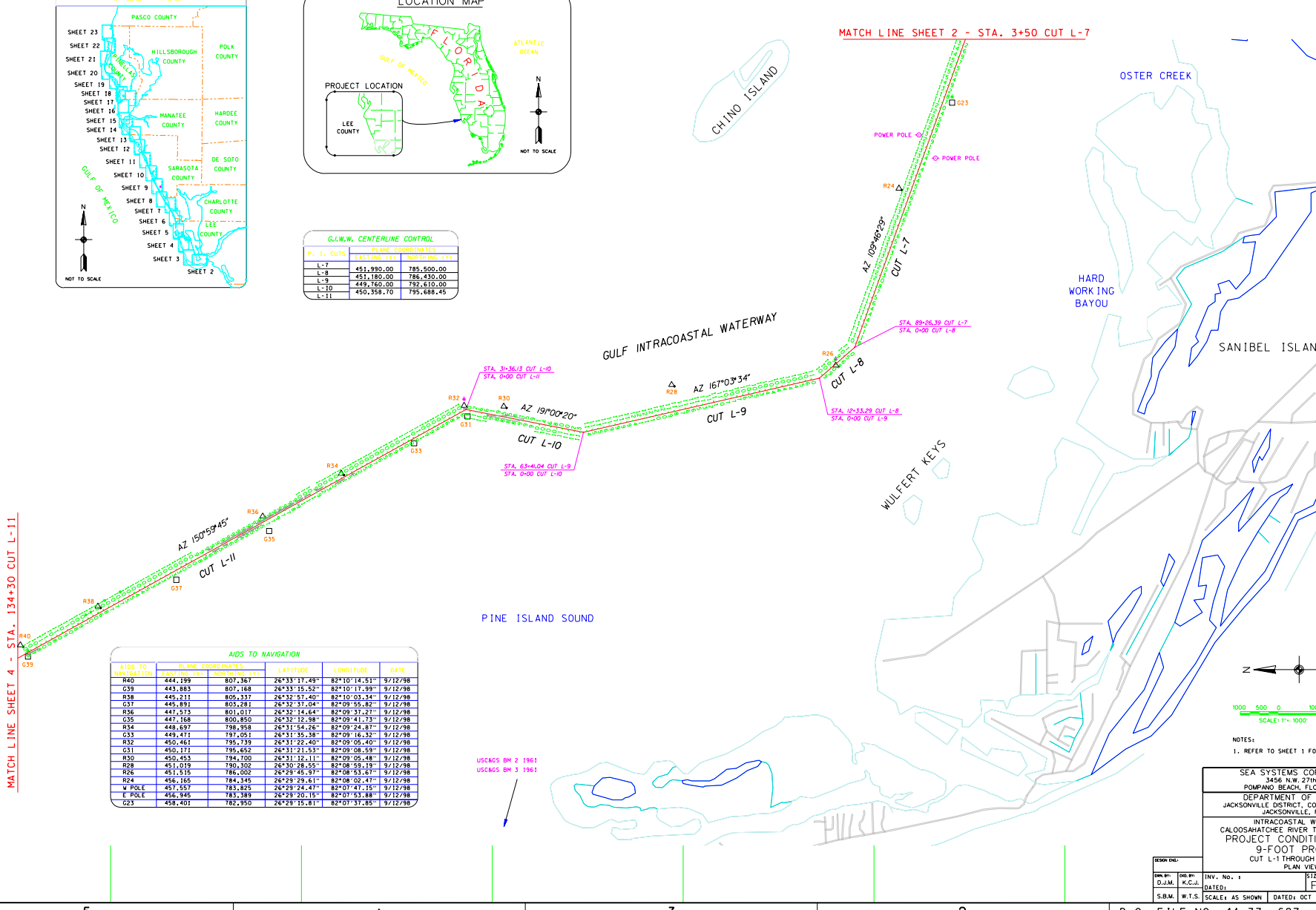
D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES	
	EASTING (X)	NORTHING (Y)
L-7	451,990.00	785,500.00
L-8	451,180.00	786,430.00
L-9	449,760.00	792,610.00
L-10	450,358.70	795,688.45
L-11		



AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE	DATE
	EASTING (X)	NORTHING (Y)			
R40	444,199	807,367	26°33'17.49"	82°10'14.51"	9/12/98
G39	443,883	807,168	26°33'15.52"	82°10'17.99"	9/12/98
R38	445,211	805,337	26°32'57.40"	82°10'03.34"	9/12/98
G37	445,891	803,281	26°32'37.04"	82°09'55.82"	9/12/98
R36	447,573	801,017	26°32'14.64"	82°09'37.27"	9/12/98
G35	447,168	800,850	26°32'12.98"	82°09'41.73"	9/12/98
R34	448,697	798,958	26°31'54.26"	82°09'24.87"	9/12/98
G33	449,471	797,051	26°31'35.38"	82°09'16.32"	9/12/98
R32	450,461	795,739	26°31'22.40"	82°09'05.40"	9/12/98
G31	450,171	795,652	26°31'21.53"	82°09'08.59"	9/12/98
R30	450,453	794,700	26°31'12.11"	82°09'05.48"	9/12/98
R28	451,019	790,302	26°30'28.55"	82°08'59.19"	9/12/98
R26	451,515	786,002	26°29'45.97"	82°08'53.67"	9/12/98
R24	456,165	784,345	26°29'29.61"	82°08'02.47"	9/12/98
W POLE	457,557	783,825	26°29'24.47"	82°07'47.15"	9/12/98
E POLE	456,945	783,389	26°29'20.15"	82°07'53.88"	9/12/98
G23	458,401	782,950	26°29'15.81"	82°07'37.85"	9/12/98

NOTES:
1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

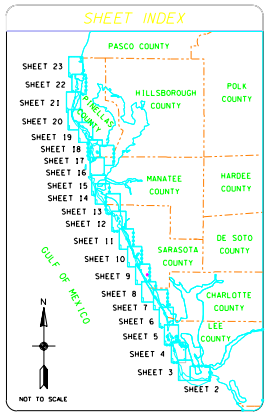
DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 3 OF 23

D.O. FILE NO. 41-37, 687

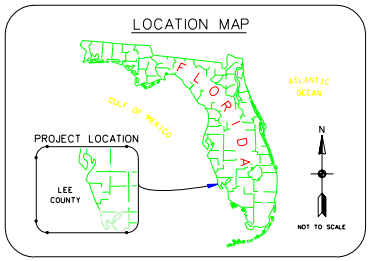
SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX



LOCATION MAP

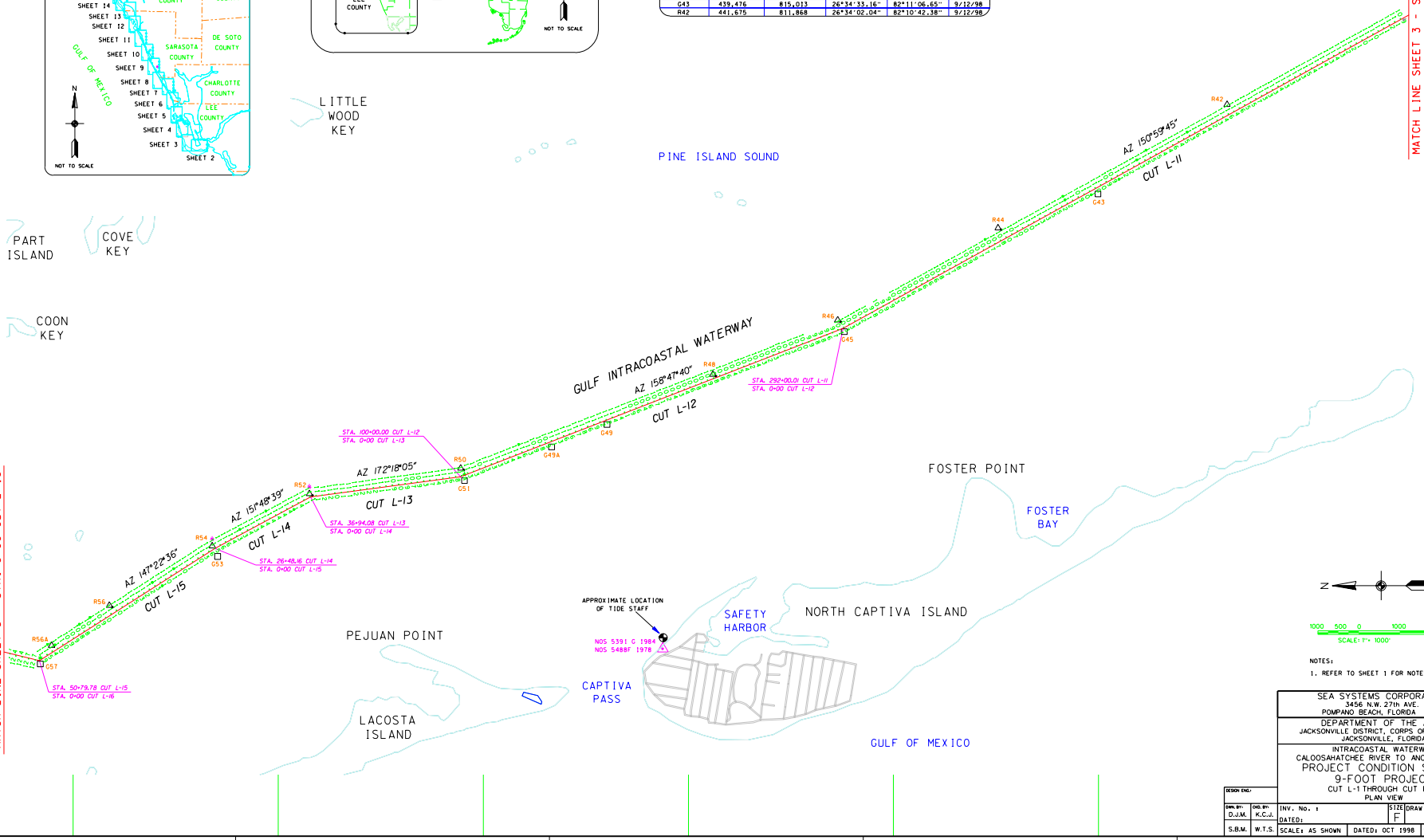


AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G57	428,017	840,800	26°38'48.38"	82°13'13.35"	9/13/98
R56A	428,480	840,523	26°38'45.65"	82°13'08.25"	9/13/98
R56	429,460	839,114	26°38'31.71"	82°12'57.42"	9/13/98
R54	430,896	836,609	26°38'06.92"	82°12'41.55"	9/13/98
G53	430,634	836,479	26°38'05.63"	82°12'44.43"	9/13/98
R52	432,168	834,238	26°37'43.46"	82°12'27.49"	9/13/98
R50	432,802	830,549	26°37'06.93"	82°12'20.43"	9/13/98
G51	432,491	830,458	26°37'06.02"	82°12'23.86"	9/13/98
G49A	433,304	828,335	26°36'45.01"	82°12'14.86"	9/13/98
G49	433,852	826,987	26°36'31.67"	82°12'08.80"	9/13/98
R48	435,092	824,400	26°36'06.06"	82°11'55.10"	9/12/98
R46	436,415	821,360	26°35'35.97"	82°11'40.47"	9/12/98
G45	436,116	821,202	26°35'34.41"	82°11'43.16"	9/12/98
R44	438,661	817,451	26°34'57.29"	82°11'15.66"	9/12/98
G43	439,476	815,013	26°34'33.16"	82°11'06.65"	9/12/98
R42	441,675	811,868	26°34'02.04"	82°10'42.38"	9/12/98

G.I.W.W. CENTERLINE CONTROL

P. T. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
L-11	436,200.41	821,226.30
L-12	432,583.26	830,549.19
L-13	432,088.36	834,209.97
L-14	430,837.41	836,544.04
L-15	428,099.90	840,820.70
L-16		



N

1000 500 0 1000 2000FT

SCALE: 1" = 1000'

NOTES:

1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 4 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

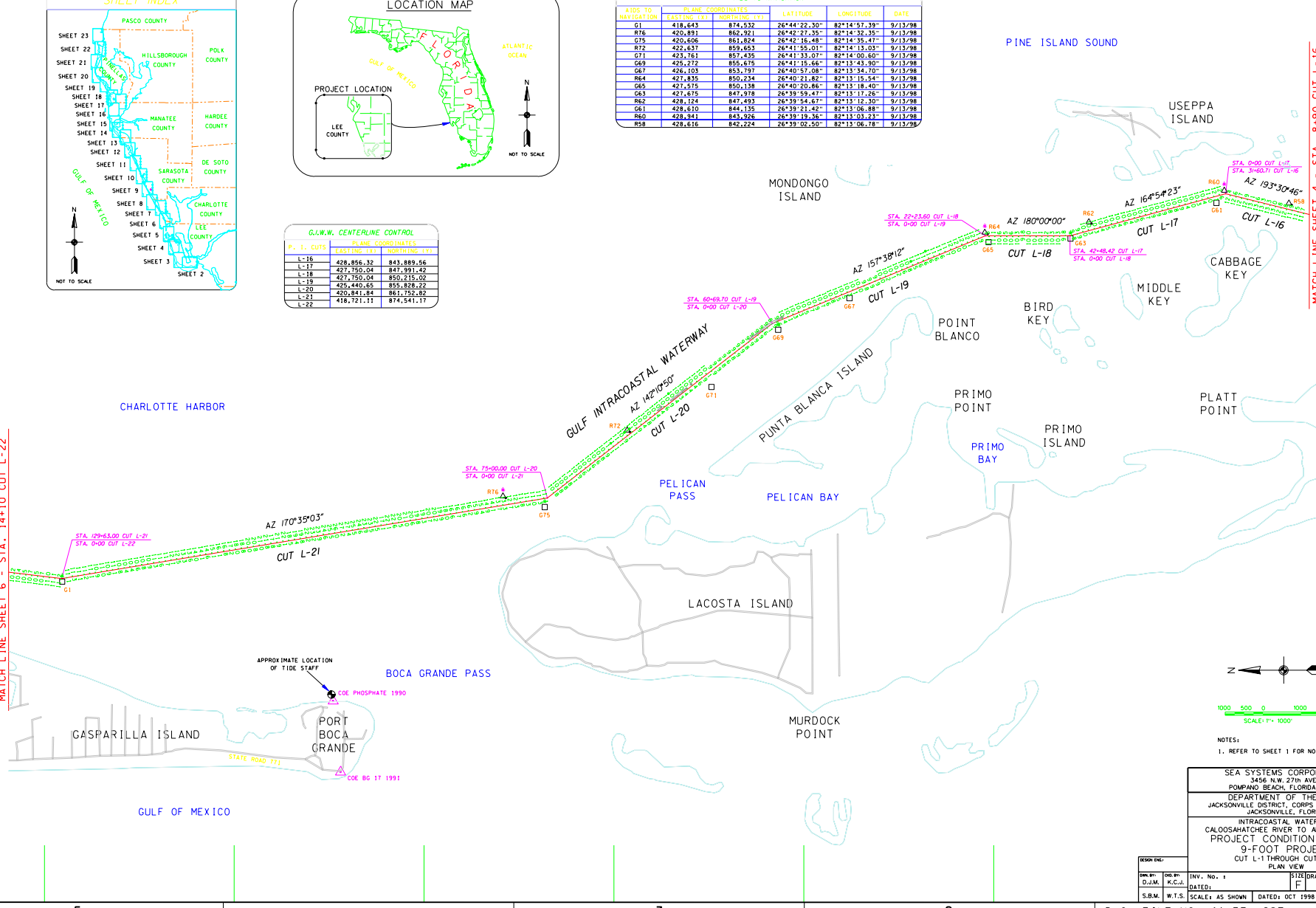
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G1	418,643	874,532	26°44'22.30"	82°14'57.39"	9/13/98
R76	420,891	862,921	26°42'27.35"	82°14'32.35"	9/13/98
G75	420,606	861,824	26°42'16.48"	82°14'35.47"	9/13/98
R72	422,637	859,653	26°41'55.01"	82°14'13.03"	9/13/98
G71	423,761	857,435	26°41'33.07"	82°14'00.60"	9/13/98
G69	425,272	855,675	26°41'15.66"	82°13'43.90"	9/13/98
G67	426,103	853,797	26°40'57.08"	82°13'34.70"	9/13/98
R64	427,835	850,234	26°40'21.82"	82°13'15.54"	9/13/98
G65	427,575	850,138	26°40'20.86"	82°13'18.40"	9/13/98
G63	427,675	847,978	26°39'59.47"	82°13'17.26"	9/13/98
R62	428,124	847,493	26°39'54.67"	82°13'12.30"	9/13/98
G61	428,610	844,135	26°39'21.42"	82°13'06.88"	9/13/98
R60	428,941	843,926	26°39'19.36"	82°13'03.23"	9/13/98
R58	428,616	842,224	26°39'02.50"	82°13'06.78"	9/13/98

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
L-16	428,856.32	843,889.56
L-17	427,750.04	847,991.42
L-18	427,750.04	850,215.02
L-19	425,440.65	855,828.22
L-20	420,841.84	861,752.82
L-21	418,721.11	874,541.17
L-22		



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1000 500 0 1000 2000FT
SCALE: 1" = 1000'

NOTES:
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SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 5 OF 23

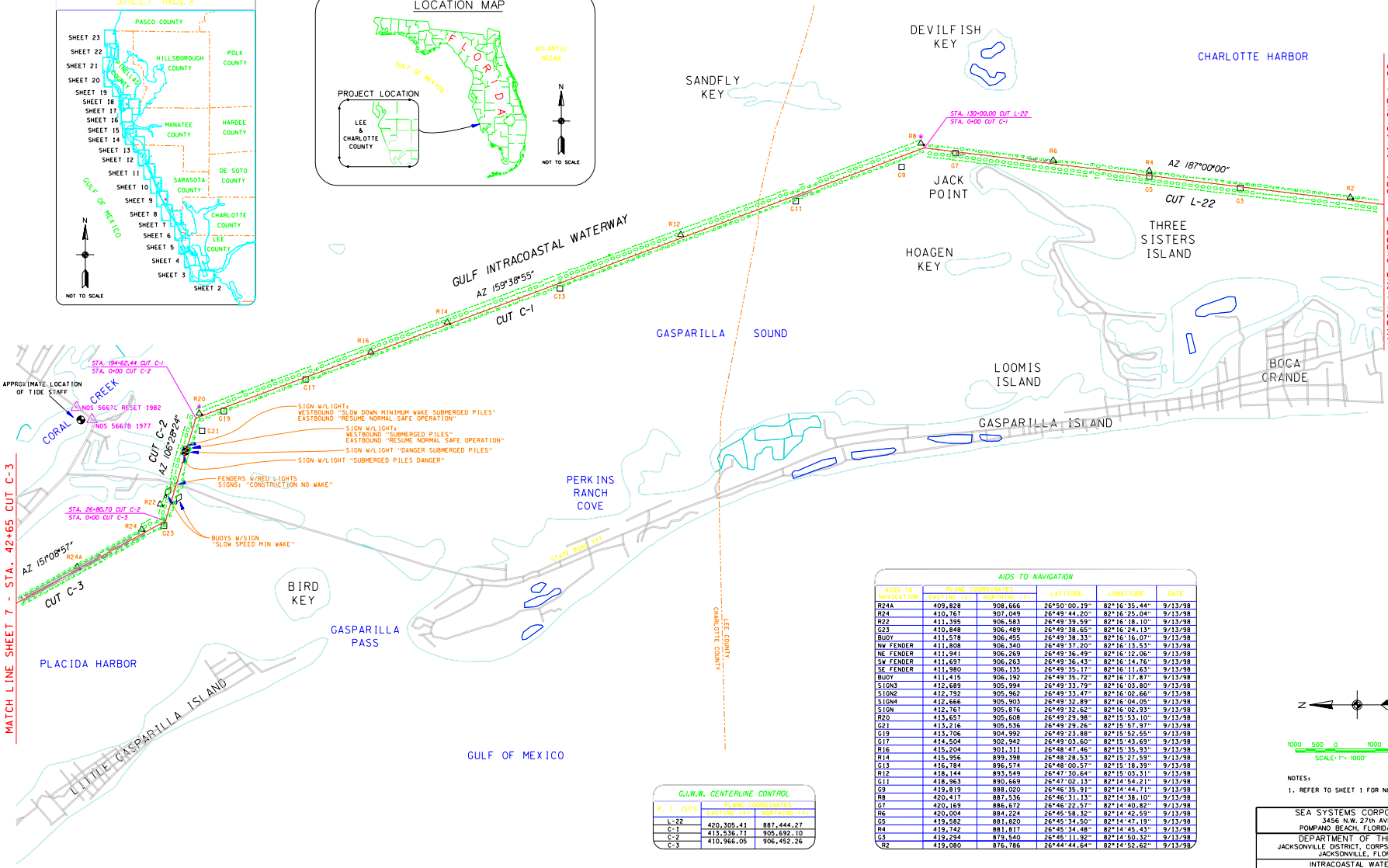
D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX

LOCATION MAP



AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
R24A	409,828	908,666	26°50'00.19"	82°16'35.44"	9/13/98
R24	410,767	907,049	26°49'44.20"	82°16'25.04"	9/13/98
R22	411,395	906,583	26°49'39.59"	82°16'18.10"	9/13/98
G23	410,848	906,489	26°49'38.65"	82°16'24.13"	9/13/98
BUOY	411,578	906,455	26°49'38.33"	82°16'16.07"	9/13/98
NW FENDER	411,808	906,340	26°49'37.20"	82°16'13.53"	9/13/98
NE FENDER	411,941	906,269	26°49'36.49"	82°16'12.06"	9/13/98
SW FENDER	411,697	906,263	26°49'36.43"	82°16'14.76"	9/13/98
SE FENDER	411,980	906,135	26°49'35.17"	82°16'11.63"	9/13/98
BUOY	411,415	906,192	26°49'35.72"	82°16'17.87"	9/13/98
SIGN3	412,689	905,994	26°49'33.79"	82°16'03.80"	9/13/98
SIGN2	412,792	905,962	26°49'33.47"	82°16'02.66"	9/13/98
SIGN4	412,666	905,903	26°49'32.89"	82°16'04.05"	9/13/98
SIGN	412,767	905,876	26°49'32.62"	82°16'02.93"	9/13/98
R20	413,657	905,608	26°49'29.98"	82°15'53.10"	9/13/98
G21	413,216	905,536	26°49'29.26"	82°15'57.97"	9/13/98
G19	413,706	904,992	26°49'23.88"	82°15'52.55"	9/13/98
G17	414,504	902,942	26°49'03.60"	82°15'43.69"	9/13/98
R16	415,204	901,311	26°48'47.46"	82°15'35.93"	9/13/98
R14	415,956	899,398	26°48'28.53"	82°15'27.59"	9/13/98
G13	416,784	896,574	26°48'00.57"	82°15'18.39"	9/13/98
R12	418,144	893,549	26°47'30.64"	82°15'03.31"	9/13/98
G11	418,963	890,669	26°47'02.13"	82°14'54.21"	9/13/98
G9	419,819	888,020	26°46'35.91"	82°14'44.71"	9/13/98
R8	420,417	887,536	26°46'31.13"	82°14'38.10"	9/13/98
G7	420,169	886,672	26°46'22.57"	82°14'40.82"	9/13/98
R6	420,004	884,224	26°45'58.32"	82°14'42.59"	9/13/98
G5	419,582	881,820	26°45'34.50"	82°14'47.19"	9/13/98
R4	419,742	881,817	26°45'34.48"	82°14'45.43"	9/13/98
G3	419,294	879,540	26°45'11.92"	82°14'50.32"	9/13/98
R2	419,080	876,786	26°44'44.64"	82°14'52.62"	9/13/98

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
L-22	420,305.41	887,444.27
C-1	413,536.71	905,692.10
C-2	410,966.05	906,452.26
C-3		

N

1000 500 0 1000 2000FT

SCALE: 1" = 1000'

NOTES:

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SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

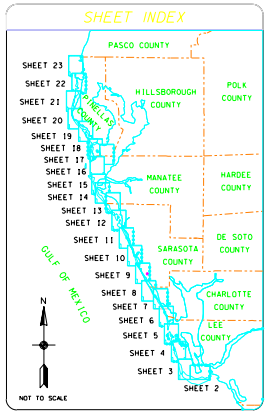
DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. : DATED:	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	SCALE: AS SHOWN	DATED: OCT 1998	SHEET 6 OF 23

D.O. FILE NO. 41-37, 687

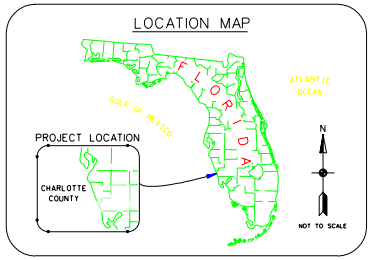
SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX



LOCATION MAP

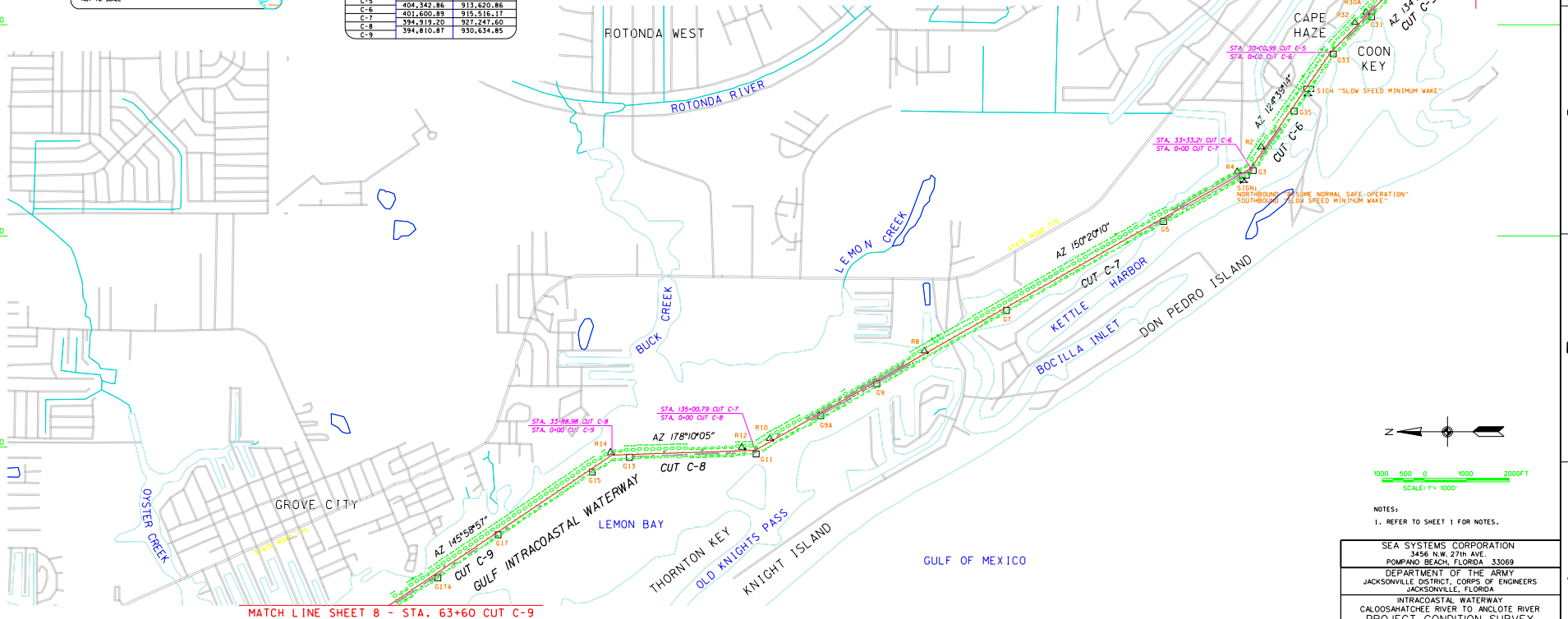


AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G17A	391,896	934,760	26°54'18.20"	82°19'54.15"	9/13/98
G17	392,915	933,332	26°54'04.08"	82°19'42.86"	9/13/98
G15	394,404	931,103	26°53'42.04"	82°19'26.35"	9/13/98
R14	394,890	930,671	26°53'37.78"	82°19'20.97"	9/13/98
G13	394,751	930,224	26°53'33.35"	82°19'22.49"	9/13/98
R12	395,007	927,563	26°53'07.00"	82°19'19.59"	9/13/98
G11	394,839	927,225	26°53'03.65"	82°19'21.43"	9/13/98
R10	395,215	926,903	26°53'00.47"	82°19'17.27"	9/13/98
G9A	395,739	925,696	26°52'48.53"	82°19'11.45"	9/13/98
G9	396,491	924,370	26°52'35.41"	82°19'03.11"	9/13/98
R8	397,288	923,241	26°52'24.25"	82°18'54.28"	9/13/98
G7	398,227	921,300	26°52'05.05"	82°18'43.85"	9/13/98
G5	400,335	917,585	26°51'28.31"	82°18'20.48"	9/13/98
R4	401,534	915,838	26°51'11.03"	82°18'07.19"	9/13/98
SIGN	401,364	915,669	26°51'09.36"	82°18'09.06"	9/13/98
G3	401,545	915,461	26°51'07.30"	82°18'07.06"	9/13/98
R2	402,120	915,271	26°51'05.43"	82°18'00.71"	9/13/98
G35	402,944	914,492	26°50'57.74"	82°17'51.59"	9/13/98
SIGN	403,416	914,148	26°50'54.34"	82°17'46.37"	9/13/98
G33	404,306	913,566	26°50'48.60"	82°17'36.53"	9/13/98
R32	405,067	913,056	26°50'43.56"	82°17'28.11"	9/13/98
R30A	405,314	912,790	26°50'40.93"	82°17'25.38"	9/13/98
G31	405,177	912,660	26°50'39.64"	82°17'26.89"	9/13/98
R30	406,232	911,901	26°50'32.15"	82°17'15.22"	9/13/98
G29	406,440	911,455	26°50'27.74"	82°17'12.91"	9/13/98
R28	406,980	911,398	26°50'27.18"	82°17'06.95"	9/13/98
SIGN	407,071	911,362	26°50'26.83"	82°17'05.95"	9/13/98
R26	408,711	910,701	26°50'20.32"	82°16'47.82"	9/13/98
G22	408,222	910,672	26°50'20.02"	82°16'53.22"	9/13/98
G25	408,649	910,321	26°50'16.56"	82°16'48.50"	9/13/98

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
C-3	408,669.76	910,620.52
C-4	406,489.46	911,523.70
C-5	404,342.86	913,620.86
C-6	401,600.89	915,516.17
C-7	394,919.20	927,247.60
C-8	394,810.87	930,634.85
C-9		



NOTES:

1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

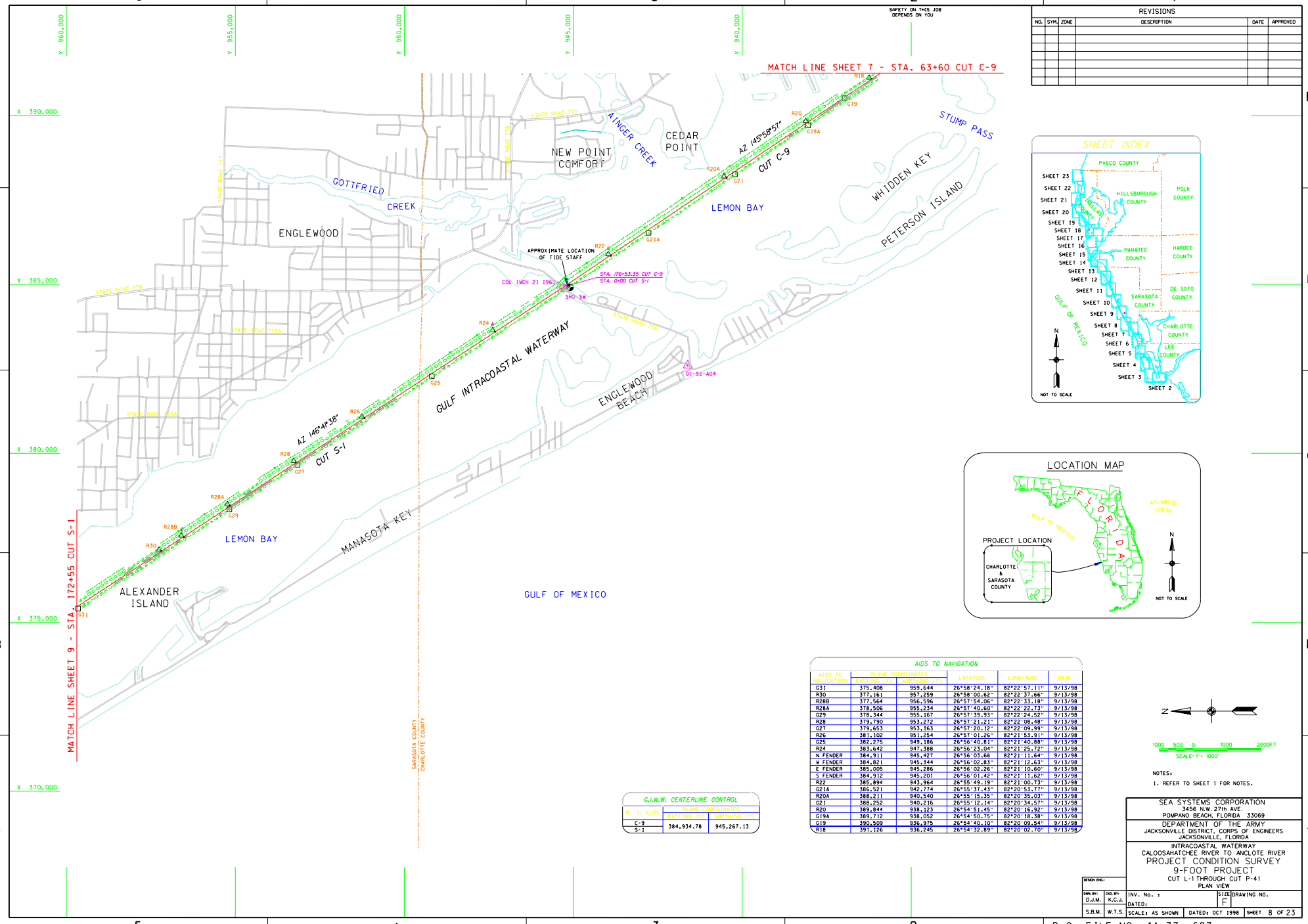
INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CKD. BY: K.C.J.	INV. No. : DATED:	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	SCALE: AS SHOWN	DATED: OCT 1998	SHEET 7 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED



AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G31	375,408	959,644	26°58'24.18"	82°22'57.11"	9/13/98
R30	377,161	957,259	26°58'00.62"	82°22'37.66"	9/13/98
R28B	377,564	956,596	26°57'54.06"	82°22'33.18"	9/13/98
R28A	378,506	955,234	26°57'40.60"	82°22'22.73"	9/13/98
G29	378,344	955,167	26°57'39.93"	82°22'24.52"	9/13/98
R28	379,790	953,272	26°57'21.21"	82°22'08.48"	9/13/98
G27	379,653	953,163	26°57'20.12"	82°22'09.99"	9/13/98
R26	381,102	951,254	26°57'01.26"	82°21'53.91"	9/13/98
G25	382,275	949,186	26°56'40.81"	82°21'40.88"	9/13/98
R24	383,642	947,388	26°56'23.04"	82°21'25.72"	9/13/98
N FENDER	384,911	945,427	26°56'03.66"	82°21'11.64"	9/13/98
W FENDER	384,821	945,344	26°56'02.83"	82°21'12.63"	9/13/98
E FENDER	385,005	945,286	26°56'02.26"	82°21'10.60"	9/13/98
S FENDER	384,912	945,201	26°56'01.42"	82°21'11.62"	9/13/98
R22	385,894	943,964	26°55'49.19"	82°21'00.73"	9/13/98
G21A	386,521	942,774	26°55'37.43"	82°20'53.77"	9/13/98
R20A	388,211	940,540	26°55'15.35"	82°20'35.03"	9/13/98
G21	388,252	940,216	26°55'12.14"	82°20'34.57"	9/13/98
R20	389,844	938,123	26°54'51.45"	82°20'16.92"	9/13/98
G19A	389,712	938,052	26°54'50.75"	82°20'18.38"	9/13/98
G19	390,509	936,975	26°54'40.10"	82°20'09.54"	9/13/98
R18	391,126	936,245	26°54'32.89"	82°20'02.70"	9/13/98

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
C-9	384,934.78	945,267.13
S-1		

N

1000 500 0 1000 2000FT

SCALE: 1" = 1000'

NOTES:

1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

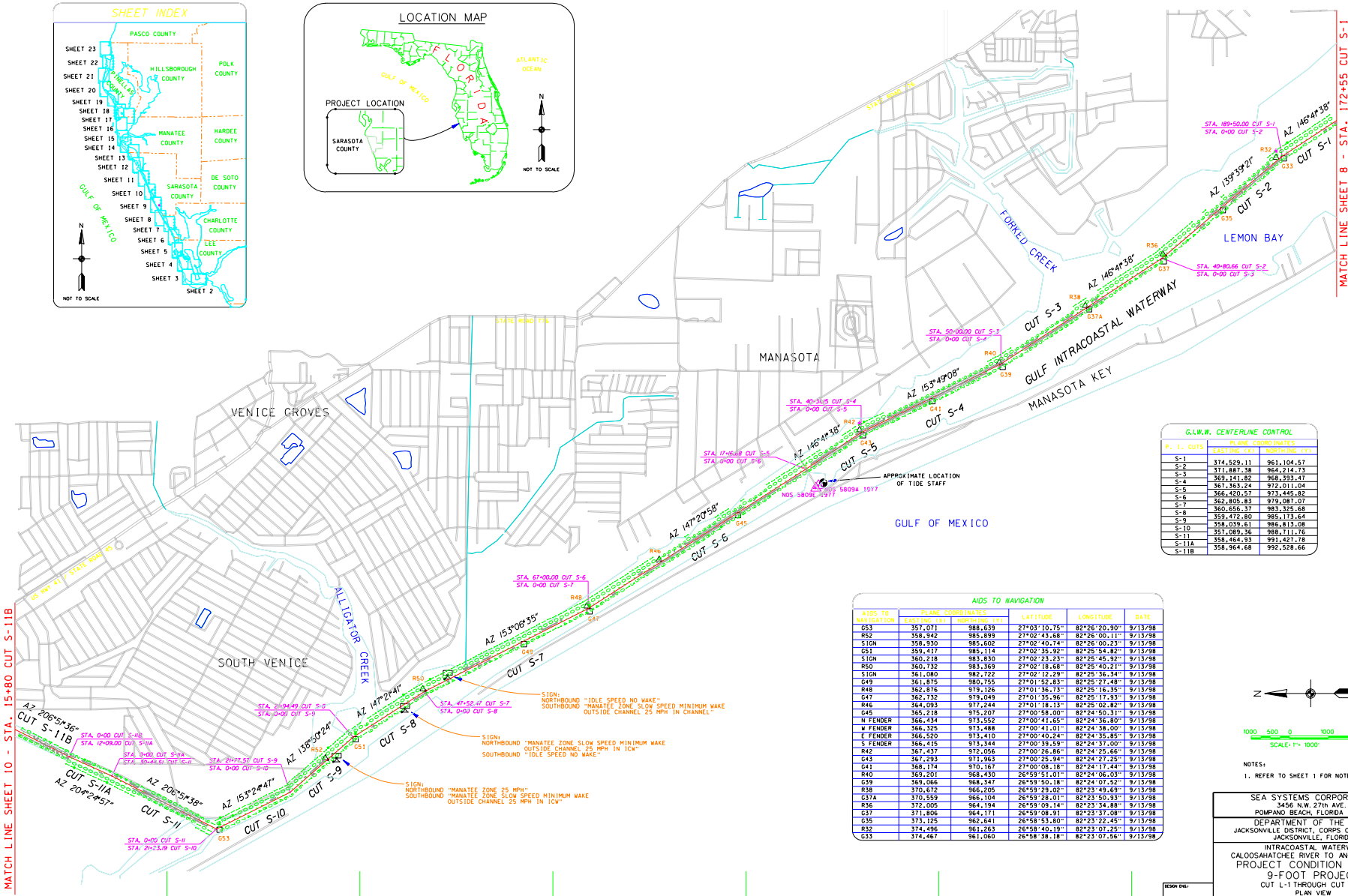
INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 8 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED



G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
S-1	374,529.11	961,104.57
S-2	371,887.38	964,214.73
S-3	369,141.82	968,393.47
S-4	367,363.24	972,011.04
S-5	366,420.57	973,445.82
S-6	362,805.83	979,087.07
S-7	360,656.57	983,325.68
S-8	359,472.80	985,173.64
S-10	358,039.61	986,813.08
S-11	357,089.56	988,111.76
S-11A	358,464.93	991,427.78
S-11B	358,964.68	992,528.66

AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G53	357,071	988,639	27°03'10.75"	82°26'20.90"	9/13/98
R52	358,942	985,899	27°02'43.68"	82°26'00.11"	9/13/98
SIGN	358,930	985,602	27°02'40.74"	82°26'00.23"	9/13/98
G51	359,417	985,114	27°02'35.92"	82°25'54.82"	9/13/98
SIGN	360,218	983,830	27°02'23.23"	82°25'45.92"	9/13/98
R50	360,732	983,369	27°02'18.68"	82°25'40.21"	9/13/98
SIGN	361,080	982,722	27°02'12.29"	82°25'36.34"	9/13/98
G49	361,875	980,755	27°01'52.83"	82°25'27.48"	9/13/98
R48	362,876	979,126	27°01'36.75"	82°25'16.35"	9/13/98
G47	362,732	979,049	27°01'35.96"	82°25'17.93"	9/13/98
R46	364,093	977,244	27°01'18.13"	82°25'02.82"	9/13/98
G45	365,218	975,207	27°00'58.00"	82°24'50.31"	9/13/98
N FENDER	366,434	973,552	27°00'41.65"	82°24'36.80"	9/13/98
W FENDER	366,325	973,488	27°00'41.01"	82°24'38.00"	9/13/98
E FENDER	366,520	973,410	27°00'40.24"	82°24'35.85"	9/13/98
S FENDER	366,415	973,344	27°00'39.59"	82°24'37.00"	9/13/98
R42	367,437	972,056	27°00'26.86"	82°24'25.66"	9/13/98
G43	367,293	971,963	27°00'25.94"	82°24'27.25"	9/13/98
G41	368,174	970,167	27°00'08.18"	82°24'17.44"	9/13/98
R40	369,201	968,430	26°59'51.01"	82°24'06.03"	9/13/98
G39	369,066	968,347	26°59'50.18"	82°24'07.52"	9/13/98
R38	370,672	966,205	26°59'29.02"	82°23'49.69"	9/13/98
G37A	370,559	966,104	26°59'28.01"	82°23'50.93"	9/13/98
R36	372,005	964,194	26°59'09.14"	82°23'34.88"	9/13/98
G37	371,806	964,171	26°59'08.91"	82°23'37.08"	9/13/98
G35	373,125	962,641	26°58'53.80"	82°23'22.45"	9/13/98
R32	374,496	961,263	26°58'40.19"	82°23'07.25"	9/13/98
G33	374,467	961,060	26°58'38.18"	82°23'07.56"	9/13/98

1000 500 0 1000 2000FT
SCALE: 1" = 1000'

NOTES:
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SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
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INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.
DRN. BY: D.J.M. | CHD. BY: K.C.J.
S.B.M. | W.T.S.
INV. No. :
DATED:
SIZE F
DRAWING NO.
SCALE: AS SHOWN | DATED: OCT 1998 | SHEET 9 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

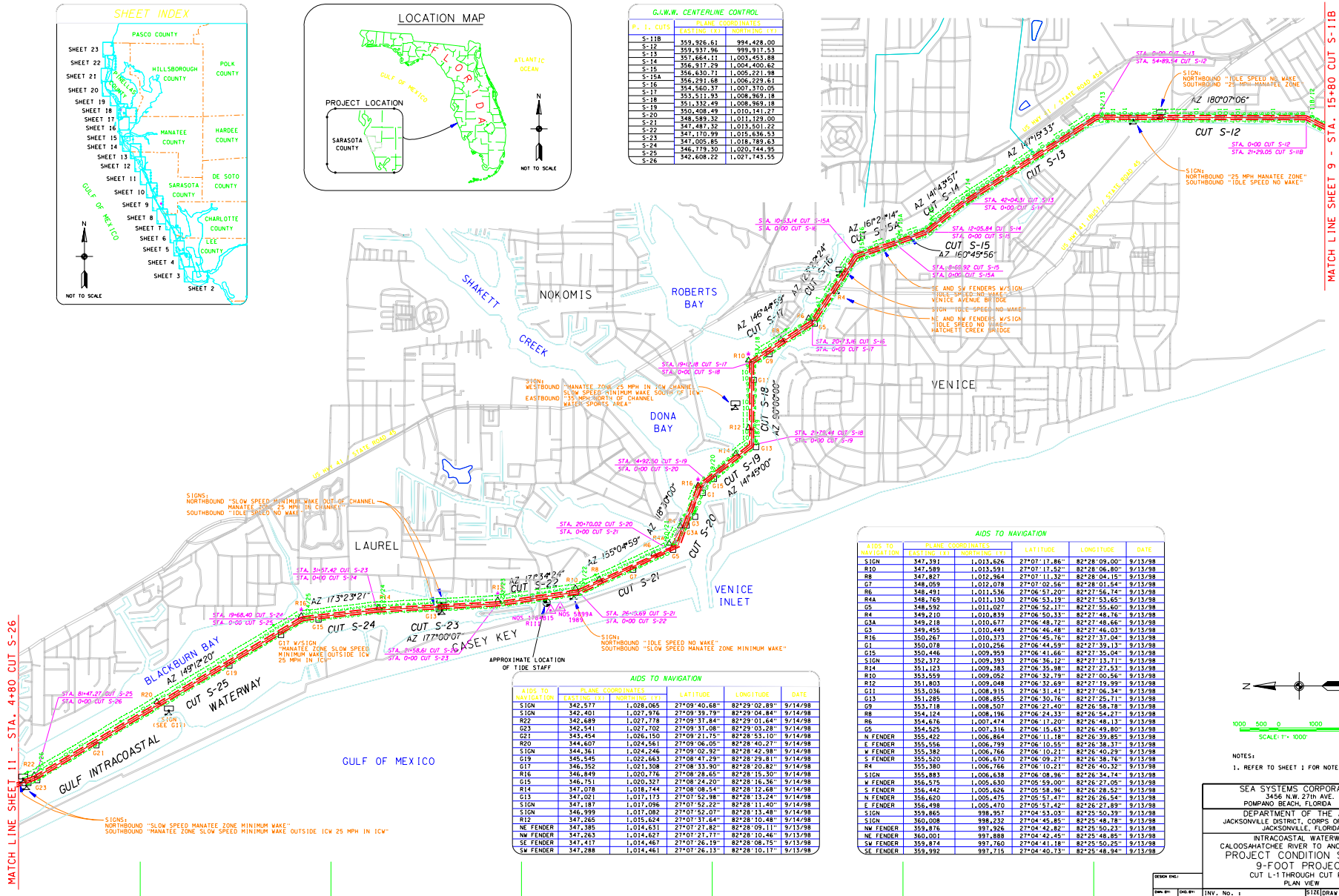
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX

LOCATION MAP

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	NORTHING (Y)
S-11B	359,926.61	994,428.00
S-12	359,937.96	999,917.53
S-13	357,684.11	1,003,453.88
S-14	356,917.29	1,004,400.62
S-15	356,630.71	1,005,221.98
S-15A	356,291.68	1,006,229.61
S-16	354,560.37	1,007,370.05
S-17	353,511.93	1,008,969.18
S-18	351,332.49	1,008,969.18
S-19	350,408.49	1,010,141.27
S-20	348,589.32	1,011,129.00
S-21	347,487.32	1,013,501.22
S-22	347,170.99	1,015,636.53
S-23	347,005.85	1,018,789.63
S-24	346,779.30	1,020,744.95
S-25	342,608.22	1,027,743.55
S-26		

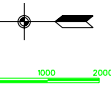


AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	DATE
SIGN	347,391	1,013,626	27°07'17.86"	82°28'09.00"	9/13/98
R10	347,589	1,013,591	27°07'17.52"	82°28'06.80"	9/13/98
R8	347,827	1,012,964	27°07'11.32"	82°28'04.15"	9/13/98
G7	348,059	1,012,078	27°07'02.56"	82°28'01.54"	9/13/98
R6	348,491	1,011,536	27°06'57.20"	82°27'56.74"	9/13/98
R4A	348,769	1,011,130	27°06'53.19"	82°27'53.65"	9/13/98
G5	348,592	1,011,027	27°06'52.17"	82°27'55.60"	9/13/98
R4	349,210	1,010,839	27°06'50.33"	82°27'48.76"	9/13/98
G3A	349,218	1,010,677	27°06'48.72"	82°27'48.66"	9/13/98
G3	349,455	1,010,449	27°06'46.48"	82°27'46.03"	9/13/98
R16	350,267	1,010,373	27°06'45.76"	82°27'37.04"	9/13/98
G1	350,078	1,010,256	27°06'44.59"	82°27'39.13"	9/13/98
G15	350,446	1,009,959	27°06'41.66"	82°27'35.04"	9/13/98
SIGN	352,372	1,009,393	27°06'36.12"	82°27'13.71"	9/13/98
R14	351,123	1,009,383	27°06'35.98"	82°27'27.53"	9/13/98
R10	353,559	1,009,052	27°06'32.79"	82°27'00.56"	9/13/98
R12	351,803	1,009,048	27°06'32.69"	82°27'19.99"	9/13/98
G11	353,036	1,008,915	27°06'31.41"	82°27'06.34"	9/13/98
G13	351,285	1,008,855	27°06'30.76"	82°27'25.71"	9/13/98
G9	353,718	1,008,507	27°06'27.40"	82°26'58.78"	9/13/98
R8	354,124	1,008,196	27°06'24.33"	82°26'54.27"	9/13/98
R6	354,676	1,007,474	27°06'17.20"	82°26'48.13"	9/13/98
G5	354,525	1,007,316	27°06'15.63"	82°26'49.80"	9/13/98
N FENDER	355,422	1,006,864	27°06'11.18"	82°26'39.85"	9/13/98
E FENDER	355,556	1,006,799	27°06'10.56"	82°26'38.37"	9/13/98
W FENDER	355,382	1,006,766	27°06'10.21"	82°26'40.29"	9/13/98
S FENDER	355,520	1,006,670	27°06'09.27"	82°26'38.76"	9/13/98
R4	355,380	1,006,766	27°06'10.21"	82°26'40.32"	9/13/98
SIGN	355,883	1,006,638	27°06'08.96"	82°26'34.74"	9/13/98
W FENDER	356,575	1,005,630	27°05'59.00"	82°26'27.05"	9/13/98
S FENDER	356,442	1,005,626	27°05'58.96"	82°26'28.52"	9/13/98
N FENDER	356,620	1,005,475	27°05'57.47"	82°26'26.54"	9/13/98
E FENDER	356,498	1,005,470	27°05'57.42"	82°26'27.89"	9/13/98
SIGN	359,865	998,957	27°04'53.03"	82°25'50.39"	9/13/98
SIGN	360,008	998,232	27°04'45.85"	82°25'48.78"	9/13/98
NW FENDER	359,876	997,926	27°04'42.82"	82°25'50.23"	9/13/98
NE FENDER	360,001	997,888	27°04'42.45"	82°25'48.85"	9/13/98
SW FENDER	359,874	997,760	27°04'41.18"	82°25'50.25"	9/13/98
SE FENDER	359,992	997,715	27°04'40.73"	82°25'48.94"	9/13/98

AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	DATE
SIGN	342,577	1,028,065	27°09'40.68"	82°29'02.89"	9/14/98
SIGN	342,401	1,027,976	27°09'39.78"	82°29'04.84"	9/14/98
R22	342,689	1,027,778	27°09'37.84"	82°29'01.64"	9/14/98
G23	342,541	1,027,702	27°09'37.08"	82°29'03.28"	9/14/98
G21	343,454	1,026,150	27°09'21.75"	82°28'53.10"	9/14/98
R20	344,607	1,024,561	27°09'06.05"	82°28'40.27"	9/14/98
SIGN	344,361	1,024,246	27°09'02.92"	82°28'42.98"	9/14/98
G19	345,545	1,022,663	27°08'47.29"	82°28'29.81"	9/14/98
G17	346,352	1,021,308	27°08'33.90"	82°28'20.82"	9/14/98
R16	346,849	1,020,776	27°08'28.65"	82°28'15.30"	9/14/98
G15	346,751	1,020,327	27°08'24.20"	82°28'16.36"	9/14/98
R14	347,078	1,018,744	27°08'08.54"	82°28'12.68"	9/14/98
G13	347,021	1,017,173	27°07'52.98"	82°28'13.24"	9/14/98
SIGN	347,187	1,017,096	27°07'52.22"	82°28'11.40"	9/14/98
SIGN	346,999	1,017,082	27°07'52.07"	82°28'13.48"	9/14/98
R12	347,265	1,015,624	27°07'37.64"	82°28'10.48"	9/14/98
NE FENDER	347,385	1,014,631	27°07'27.82"	82°28'09.11"	9/13/98
NW FENDER	347,263	1,014,627	27°07'27.77"	82°28'10.46"	9/13/98
SE FENDER	347,417	1,014,467	27°07'26.19"	82°28'08.75"	9/13/98
SW FENDER	347,288	1,014,461	27°07'26.13"	82°28'10.17"	9/13/98



NOTES:

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3456 N.W. 27th AVE.
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INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.			
DWN. BY: D.J.M.	CHK. BY: K.C.J.	INV. No. :	SIZE: F
S.B.M.	W.T.S.	DATED:	DRAWING NO.
		SCALE: AS SHOWN	DATED: OCT 1998

SHEET 10 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

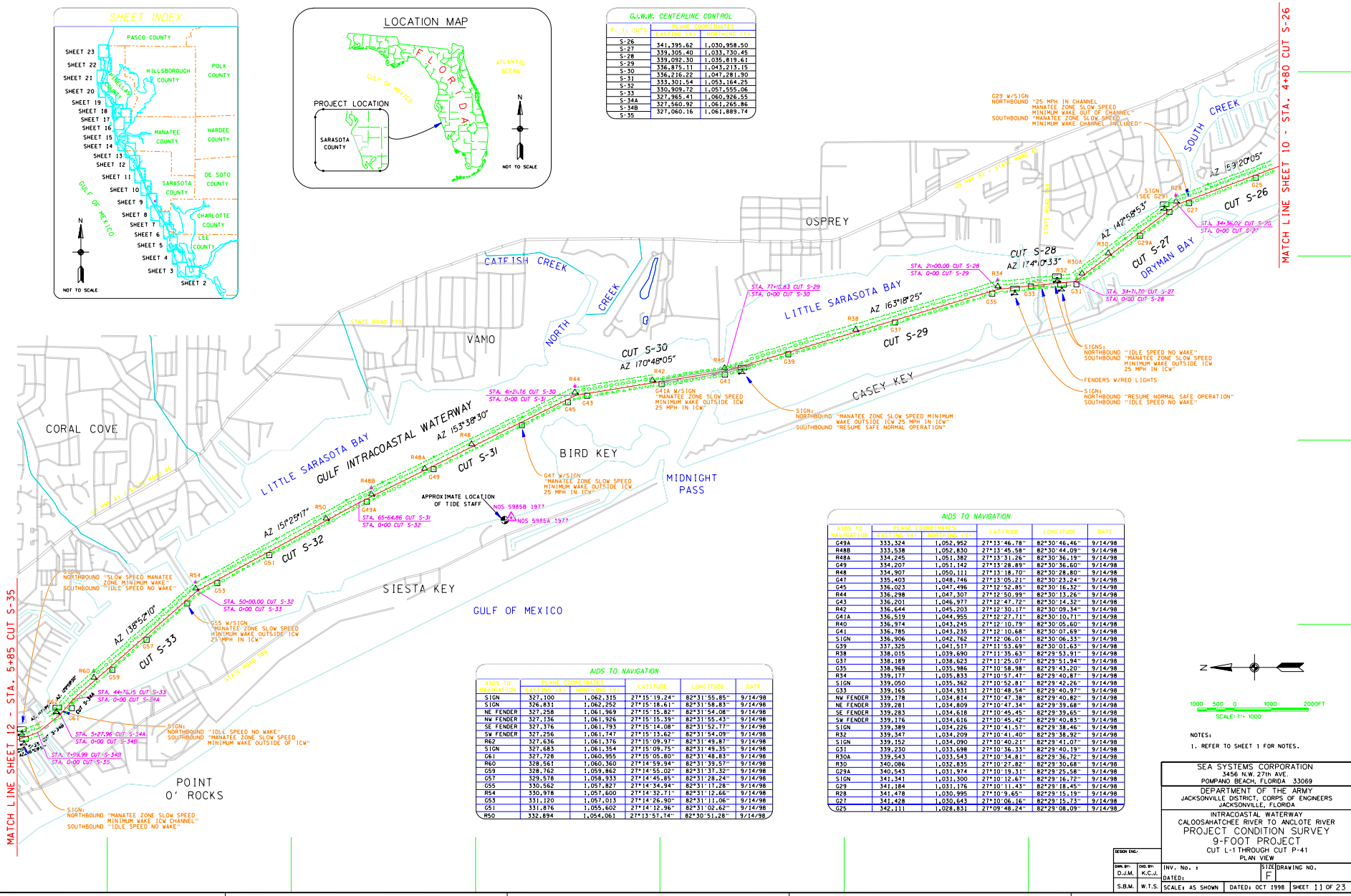
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX

LOCATION MAP

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	NORTHING (Y)
S-26	341,395.62	1,030,958.50
S-27	339,305.40	1,033,730.45
S-28	339,092.30	1,035,819.61
S-29	336,875.11	1,043,213.15
S-30	336,216.22	1,047,281.90
S-31	333,301.54	1,053,164.25
S-32	330,909.72	1,057,555.06
S-33	327,965.41	1,060,926.55
S-34A	327,560.92	1,061,265.86
S-34B	327,060.16	1,061,889.74
S-35		



AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G49A	333,324	1,052,952	27°13'46.78"	82°30'46.46"	9/14/98
R48B	333,538	1,052,830	27°13'45.58"	82°30'44.09"	9/14/98
R48A	334,245	1,051,382	27°13'31.26"	82°30'36.19"	9/14/98
G49	334,207	1,051,142	27°13'28.89"	82°30'36.60"	9/14/98
R48	334,907	1,050,111	27°13'18.70"	82°30'28.80"	9/14/98
G47	335,403	1,048,746	27°13'05.21"	82°30'23.24"	9/14/98
G45	336,023	1,047,496	27°12'52.85"	82°30'16.32"	9/14/98
R44	336,298	1,047,307	27°12'50.99"	82°30'13.26"	9/14/98
G43	336,201	1,046,977	27°12'47.72"	82°30'14.32"	9/14/98
R42	336,644	1,045,203	27°12'30.17"	82°30'09.34"	9/14/98
G41A	336,519	1,044,955	27°12'27.71"	82°30'10.71"	9/14/98
R40	336,974	1,043,245	27°12'10.79"	82°30'05.60"	9/14/98
G41	336,785	1,043,235	27°12'10.68"	82°30'01.69"	9/14/98
SIGN	336,906	1,042,762	27°12'06.01"	82°30'06.33"	9/14/98
G39	337,325	1,041,517	27°11'53.69"	82°30'01.63"	9/14/98
R38	338,015	1,039,690	27°11'35.63"	82°29'53.91"	9/14/98
G37	338,189	1,038,623	27°11'25.07"	82°29'51.94"	9/14/98
G35	338,968	1,035,986	27°10'58.98"	82°29'43.20"	9/14/98
R34	339,177	1,035,833	27°10'57.47"	82°29'40.87"	9/14/98
SIGN	339,050	1,035,362	27°10'52.81"	82°29'42.26"	9/14/98
G33	339,165	1,034,931	27°10'48.54"	82°29'40.97"	9/14/98
NW FENDER	339,178	1,034,814	27°10'47.38"	82°29'40.82"	9/14/98
NE FENDER	339,281	1,034,809	27°10'47.34"	82°29'39.68"	9/14/98
SE FENDER	339,283	1,034,618	27°10'45.45"	82°29'39.65"	9/14/98
SW FENDER	339,176	1,034,616	27°10'45.42"	82°29'40.83"	9/14/98
SIGN	339,389	1,034,226	27°10'41.57"	82°29'38.46"	9/14/98
R32	339,347	1,034,209	27°10'41.40"	82°29'38.92"	9/14/98
SIGN	339,152	1,034,090	27°10'40.21"	82°29'41.07"	9/14/98
G31	339,230	1,033,698	27°10'36.33"	82°29'40.19"	9/14/98
R30A	339,543	1,033,543	27°10'34.81"	82°29'36.72"	9/14/98
R30	340,086	1,032,835	27°10'27.82"	82°29'30.68"	9/14/98
G29A	340,543	1,031,974	27°10'19.31"	82°29'25.58"	9/14/98
SIGN	341,341	1,031,300	27°10'12.67"	82°29'16.72"	9/14/98
G29	341,184	1,031,176	27°10'11.43"	82°29'18.45"	9/14/98
R28	341,478	1,030,995	27°10'9.65"	82°29'15.19"	9/14/98
G27	341,428	1,030,643	27°10'06.16"	82°29'15.73"	9/14/98
G25	342,111	1,028,831	27°09'48.24"	82°29'08.09"	9/14/98

AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	DATE
SIGN	327,100	1,062,315	27°15'19.24"	82°31'55.85"	9/14/98
SIGN	326,831	1,062,252	27°15'18.61"	82°31'58.83"	9/14/98
NE FENDER	327,258	1,061,969	27°15'15.82"	82°31'54.08"	9/14/98
NW FENDER	327,136	1,061,926	27°15'15.39"	82°31'55.43"	9/14/98
SE FENDER	327,376	1,061,793	27°15'14.08"	82°31'52.77"	9/14/98
SW FENDER	327,256	1,061,747	27°15'13.62"	82°31'54.09"	9/14/98
R62	327,636	1,061,376	27°15'09.97"	82°31'49.87"	9/14/98
SIGN	327,683	1,061,354	27°15'09.75"	82°31'49.35"	9/14/98
G61	327,728	1,060,955	27°15'05.80"	82°31'48.83"	9/14/98
R60	328,561	1,060,360	27°14'59.94"	82°31'39.57"	9/14/98
G59	328,762	1,059,862	27°14'55.02"	82°31'37.32"	9/14/98
G57	329,578	1,058,933	27°14'45.85"	82°31'28.24"	9/14/98
G55	330,562	1,057,827	27°14'34.94"	82°31'17.28"	9/14/98
R54	330,978	1,057,600	27°14'32.71"	82°31'12.66"	9/14/98
G53	331,120	1,057,013	27°14'26.90"	82°31'11.06"	9/14/98
G51	331,876	1,055,602	27°14'12.96"	82°31'02.62"	9/14/98
R50	332,894	1,054,061	27°13'57.74"	82°30'51.28"	9/14/98

NOTES:
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SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 11 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

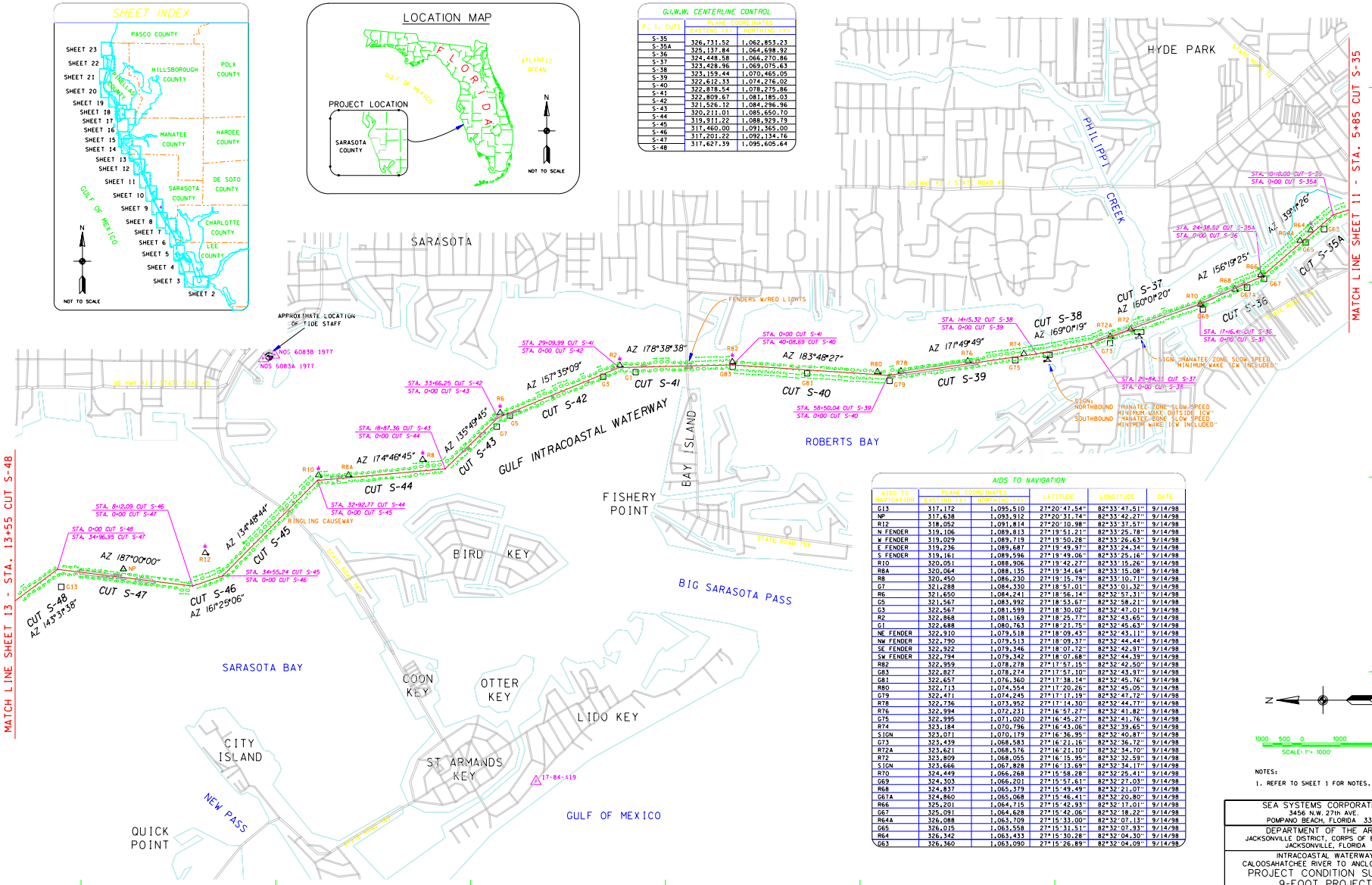
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX

LOCATION MAP

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	NORTHING (Y)
S-35		
S-35A	326,731.52	1,062,853.23
S-36	325,137.84	1,064,698.92
S-37	324,448.58	1,066,270.86
S-38	323,428.96	1,069,075.63
S-39	323,159.44	1,070,465.05
S-40	322,612.33	1,074,276.02
S-41	322,878.54	1,078,275.86
S-42	322,809.67	1,081,185.03
S-43	321,526.12	1,084,296.96
S-44	320,211.01	1,085,650.70
S-45	319,911.22	1,088,929.79
S-46	317,460.00	1,091,365.00
S-47	317,201.22	1,092,134.76
S-48	317,627.39	1,095,605.64



AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G13	317,172	1,095,510	27°20'47.54"	82°33'47.51"	9/14/98
NP	317,638	1,093,912	27°20'31.74"	82°33'42.27"	9/14/98
R12	318,052	1,091,814	27°20'10.98"	82°33'37.57"	9/14/98
N FENDER	319,106	1,089,813	27°19'51.21"	82°33'25.78"	9/14/98
W FENDER	319,029	1,089,719	27°19'50.28"	82°33'26.63"	9/14/98
E FENDER	319,236	1,089,687	27°19'49.97"	82°33'24.34"	9/14/98
S FENDER	319,161	1,089,596	27°19'49.06"	82°33'25.16"	9/14/98
R10	320,051	1,088,906	27°19'42.27"	82°33'15.26"	9/14/98
R8A	320,064	1,088,135	27°19'34.64"	82°33'15.08"	9/14/98
R8	320,450	1,086,230	27°19'15.79"	82°33'10.71"	9/14/98
G7	321,288	1,084,330	27°18'57.01"	82°33'01.32"	9/14/98
R6	321,650	1,084,241	27°18'56.14"	82°32'57.31"	9/14/98
G5	321,567	1,083,992	27°18'53.67"	82°32'58.21"	9/14/98
G3	322,567	1,081,599	27°18'30.02"	82°32'47.01"	9/14/98
R2	322,868	1,081,169	27°18'25.77"	82°32'43.65"	9/14/98
G1	322,688	1,080,763	27°18'21.75"	82°32'45.63"	9/14/98
NE FENDER	322,910	1,079,518	27°18'09.43"	82°32'43.11"	9/14/98
NW FENDER	322,790	1,079,513	27°18'09.37"	82°32'44.44"	9/14/98
SE FENDER	322,922	1,079,346	27°18'07.72"	82°32'42.97"	9/14/98
SW FENDER	322,794	1,079,342	27°18'07.68"	82°32'44.39"	9/14/98
R82	322,959	1,078,278	27°17'57.15"	82°32'42.50"	9/14/98
G83	322,827	1,078,274	27°17'57.10"	82°32'43.97"	9/14/98
G81	322,657	1,076,360	27°17'38.14"	82°32'45.76"	9/14/98
R80	322,713	1,074,554	27°17'20.26"	82°32'45.05"	9/14/98
G79	322,471	1,074,245	27°17'17.19"	82°32'47.72"	9/14/98
R78	322,736	1,073,952	27°17'14.30"	82°32'44.77"	9/14/98
R76	322,994	1,072,231	27°16'57.27"	82°32'41.82"	9/14/98
G75	322,995	1,071,020	27°16'45.27"	82°32'41.76"	9/14/98
R74	323,184	1,070,796	27°16'43.06"	82°32'39.65"	9/14/98
SIGN	323,071	1,070,179	27°16'36.95"	82°32'40.87"	9/14/98
G73	323,439	1,068,583	27°16'21.16"	82°32'36.72"	9/14/98
R72A	323,621	1,068,576	27°16'21.10"	82°32'34.70"	9/14/98
R72	323,809	1,068,055	27°16'15.95"	82°32'32.59"	9/14/98
SIGN	323,666	1,067,828	27°16'13.69"	82°32'34.17"	9/14/98
R70	324,449	1,066,268	27°15'58.28"	82°32'25.41"	9/14/98
G69	324,303	1,066,201	27°15'57.61"	82°32'27.03"	9/14/98
R68	324,837	1,065,379	27°15'49.49"	82°32'21.07"	9/14/98
G67A	324,860	1,065,068	27°15'46.41"	82°32'20.80"	9/14/98
R66	325,201	1,064,715	27°15'42.93"	82°32'17.01"	9/14/98
G67	325,091	1,064,628	27°15'42.06"	82°32'18.22"	9/14/98
R64A	326,088	1,063,709	27°15'33.00"	82°32'07.13"	9/14/98
G65	326,015	1,063,558	27°15'31.51"	82°32'07.93"	9/14/98
R64	326,342	1,063,433	27°15'30.28"	82°32'04.30"	9/14/98
G63	326,360	1,063,090	27°15'26.89"	82°32'04.09"	9/14/98

N

1000 500 0 1000 2000FT

SCALE: 1" = 1000'

NOTES:

1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 12 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

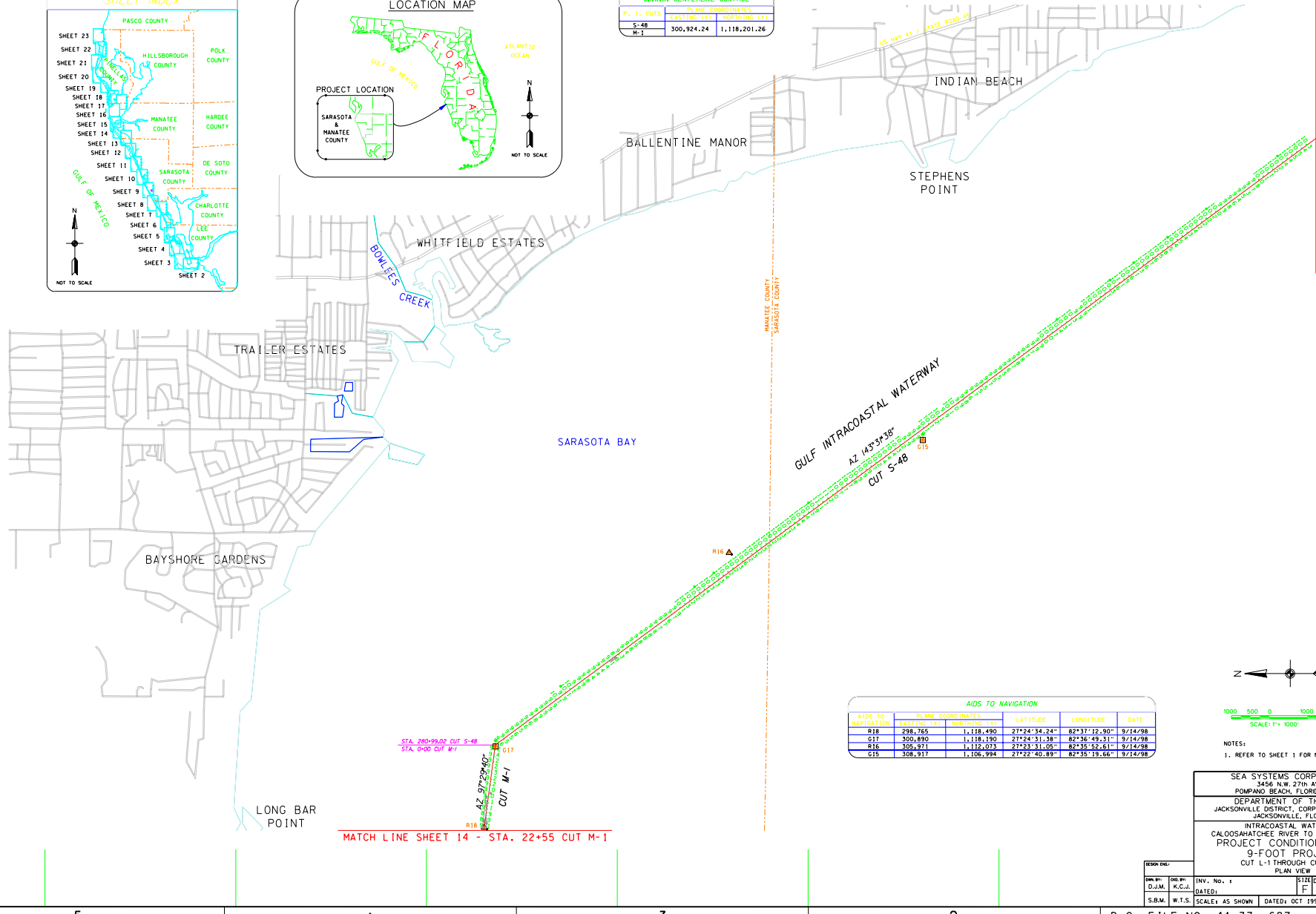
REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX

LOCATION MAP

G.I.W.W. CENTERLINE CONTROL

P. T. CUTS	PLANE COORDINATES	
	EASTING (X)	NORTHING (Y)
S-48	300,924.24	1,118,201.26
M-1		



AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE	DATE
	EASTING (X)	NORTHING (Y)			
R18	298,765	1,118,490	27°24'34.24"	82°37'12.90"	9/14/98
G17	300,890	1,118,190	27°24'31.38"	82°36'49.31"	9/14/98
R16	305,971	1,112,073	27°23'31.05"	82°35'52.61"	9/14/98
G15	308,917	1,106,994	27°22'40.89"	82°35'19.66"	9/14/98

N

1000 500 0 1000 2000FT
SCALE: 1" = 1000'

NOTES:
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SEA SYSTEMS CORPORATION
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POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

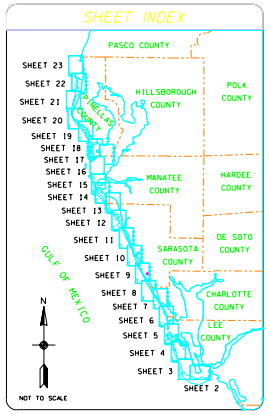
DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 13 OF 23

D.O. FILE NO. 41-37, 687

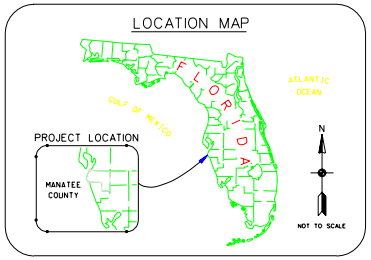
SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX



LOCATION MAP

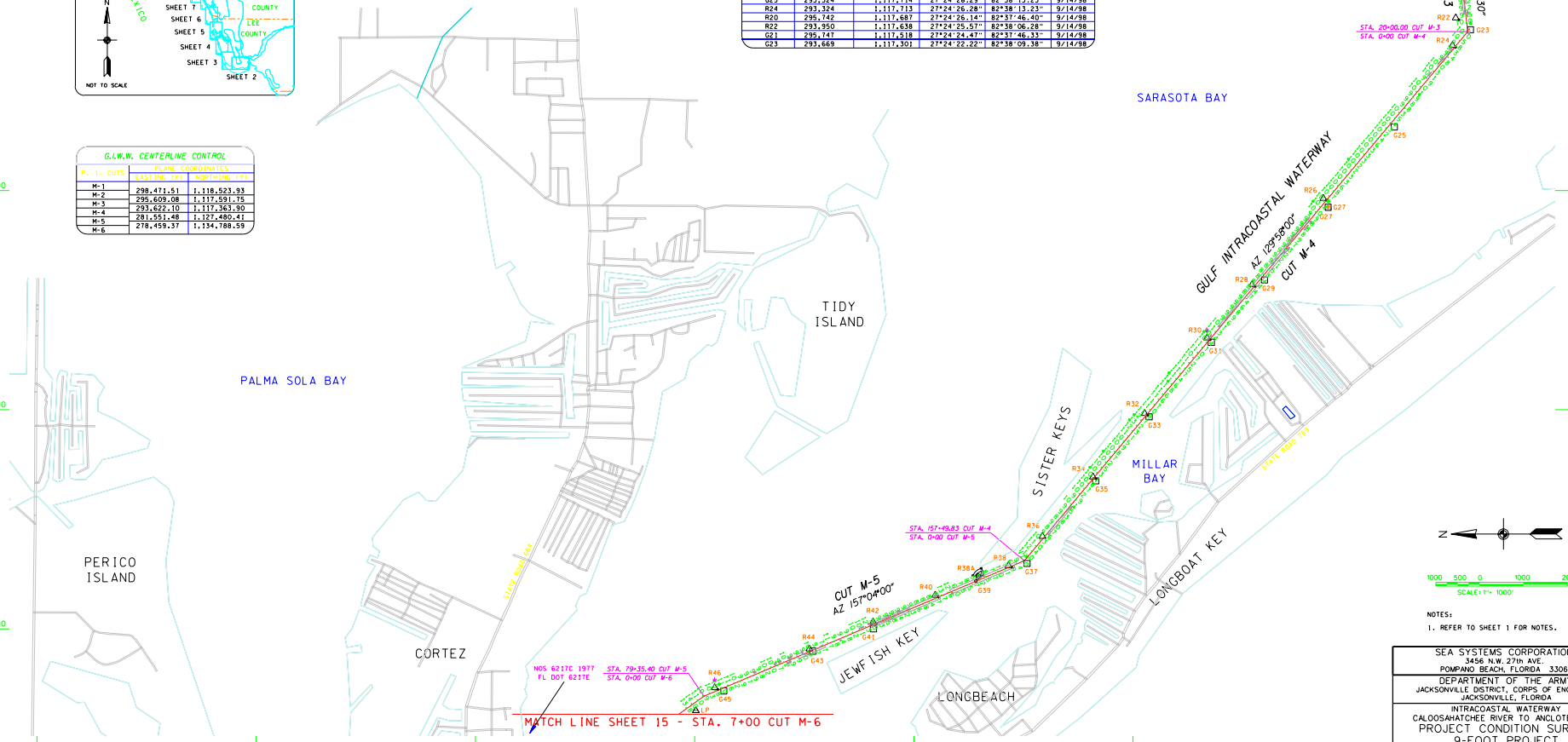


AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
LP	278,131	1,134,972	27°27'16.39"	82°41'02.85"	9/14/98
R46	278,659	1,134,541	27°27'12.15"	82°40'56.96"	9/14/98
G45	278,577	1,134,335	27°27'10.11"	82°40'57.86"	9/14/98
R44	279,557	1,132,381	27°26'50.81"	82°40'46.86"	9/14/98
G43	279,485	1,132,305	27°26'50.05"	82°40'47.66"	9/14/98
R42	280,172	1,130,929	27°26'36.46"	82°40'39.95"	9/14/98
G41	280,002	1,130,921	27°26'36.38"	82°40'41.84"	9/14/98
R40	280,780	1,129,510	27°26'22.44"	82°40'33.12"	9/14/98
G39	281,089	1,128,586	27°26'13.31"	82°40'29.63"	9/14/98
R38A	281,210	1,128,530	27°26'12.76"	82°40'28.29"	9/14/98
R38	281,454	1,127,838	27°26'05.92"	82°40'25.54"	9/14/98
G37	281,492	1,127,420	27°26'01.79"	82°40'25.09"	9/14/98
R36	282,125	1,127,065	27°25'58.30"	82°40'18.04"	9/14/98
R34	283,480	1,125,911	27°25'46.95"	82°40'02.94"	9/14/98
G35	283,369	1,125,854	27°25'46.38"	82°40'04.16"	9/14/98
R32	284,928	1,124,732	27°25'35.35"	82°39'46.80"	9/14/98
G33	284,831	1,124,635	27°25'34.39"	82°39'47.87"	9/14/98
R30	286,635	1,123,312	27°25'21.38"	82°39'27.77"	9/14/98
G31	286,533	1,123,214	27°25'20.40"	82°39'28.90"	9/14/98
R28	287,867	1,122,285	27°25'11.27"	82°39'14.04"	9/14/98
G29	287,952	1,122,001	27°25'08.47"	82°39'13.08"	9/14/98
R26	289,835	1,120,659	27°24'55.27"	82°38'52.11"	9/14/98
G27	289,617	1,120,548	27°24'54.16"	82°38'54.52"	9/14/98
G19	297,859	1,118,064	27°24'29.98"	82°37'22.93"	9/14/98
G25	293,324	1,117,714	27°24'26.29"	82°38'13.23"	9/14/98
R24	293,324	1,117,713	27°24'26.28"	82°38'13.23"	9/14/98
R20	295,742	1,117,687	27°24'26.14"	82°37'46.40"	9/14/98
R22	293,950	1,117,638	27°24'25.57"	82°38'06.28"	9/14/98
G21	295,747	1,117,518	27°24'24.47"	82°37'46.33"	9/14/98
G23	293,669	1,117,301	27°24'22.22"	82°38'09.38"	9/14/98

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
M-1	298,471.51	1,118,523.93
M-2	295,609.08	1,117,591.75
M-3	293,622.10	1,117,363.90
M-4	281,551.48	1,127,480.41
M-5	278,459.37	1,134,788.59



NOTES:

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INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

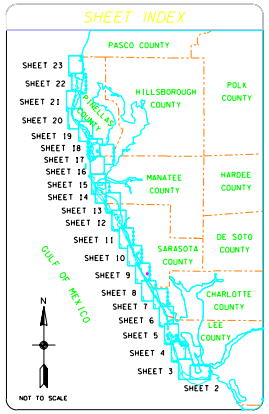
DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 14 OF 23

D.O. FILE NO. 41-37, 687

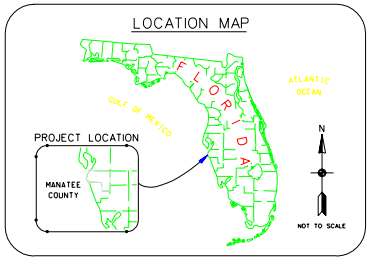
SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX



LOCATION MAP

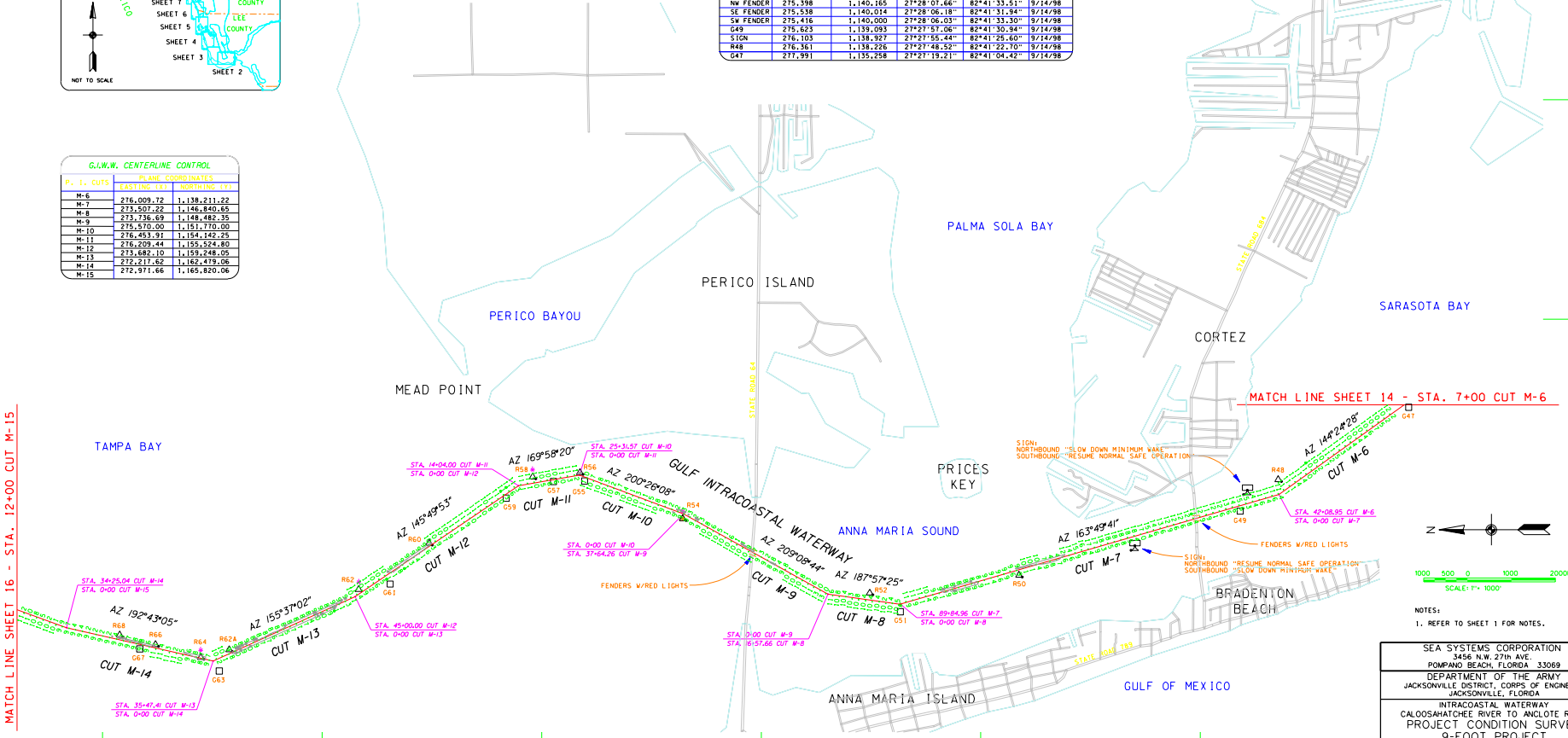


AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
R68	272,824	1,164,611	27°32'09.60"	82°42'03.61"	9/15/98
G67	272,492	1,164,152	27°32'05.03"	82°42'07.27"	9/15/98
R66	272,603	1,163,795	27°32'01.50"	82°42'06.01"	9/15/98
R64	272,297	1,162,764	27°31'51.28"	82°42'09.35"	9/15/98
G63	271,982	1,162,344	27°31'47.10"	82°42'12.82"	9/15/98
R62A	272,487	1,162,117	27°31'44.88"	82°42'07.20"	9/15/98
R62	273,848	1,159,166	27°31'15.73"	82°41'51.90"	9/14/98
G61	273,963	1,158,452	27°31'08.67"	82°41'50.58"	9/14/98
R60	274,911	1,157,562	27°30'59.91"	82°41'39.99"	9/14/98
G59	275,919	1,155,810	27°30'42.62"	82°41'28.69"	9/14/98
R58	276,408	1,155,206	27°30'36.66"	82°41'23.22"	9/14/98
G57	276,298	1,154,731	27°30'31.95"	82°41'24.41"	9/14/98
RRNGMRK	276,855	1,154,563	27°30'30.32"	82°41'18.22"	9/14/98
R56	276,524	1,154,128	27°30'25.99"	82°41'21.87"	9/14/98
G55	276,312	1,154,025	27°30'24.96"	82°41'24.22"	9/14/98
R54	275,457	1,151,787	27°30'02.75"	82°41'33.57"	9/14/98
N FENDER	274,659	1,150,280	27°29'47.79"	82°41'42.34"	9/14/98
E FENDER	274,784	1,150,257	27°29'47.57"	82°41'40.95"	9/14/98
W FENDER	274,590	1,150,114	27°29'46.14"	82°41'43.10"	9/14/98
S FENDER	274,713	1,150,091	27°29'45.92"	82°41'41.73"	9/14/98
R52	273,777	1,147,528	27°29'20.49"	82°41'51.96"	9/14/98
G51	273,338	1,146,830	27°29'13.55"	82°41'56.79"	9/14/98
R50	274,185	1,144,129	27°28'46.85"	82°41'47.22"	9/14/98
SIGN	274,838	1,141,489	27°28'20.74"	82°41'39.81"	9/14/98
NE FENDER	275,522	1,140,179	27°28'07.81"	82°41'32.13"	9/14/98
NW FENDER	275,398	1,140,165	27°28'07.66"	82°41'33.51"	9/14/98
SE FENDER	275,538	1,140,014	27°28'06.18"	82°41'31.94"	9/14/98
SW FENDER	275,416	1,140,000	27°28'06.03"	82°41'33.30"	9/14/98
G49	275,623	1,139,093	27°27'57.06"	82°41'30.94"	9/14/98
SIGN	276,103	1,138,927	27°27'55.44"	82°41'25.60"	9/14/98
R48	276,361	1,138,226	27°27'48.52"	82°41'22.70"	9/14/98
G47	277,991	1,135,258	27°27'19.21"	82°41'04.42"	9/14/98

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
M-6	276,009.72	1,138,211.22
M-7	273,507.22	1,146,840.65
M-8	273,736.69	1,148,482.35
M-9	275,570.00	1,151,770.00
M-10	276,453.91	1,154,142.25
M-11	276,209.44	1,155,524.80
M-12	273,682.10	1,159,248.05
M-13	272,217.62	1,162,419.06
M-14	272,971.66	1,165,820.06



NOTES:
1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.			
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE F
S.B.M.	W.T.S.	DATED:	DRAWING NO.
		SCALE: AS SHOWN	DATED: OCT 1998

SHEET 15 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

MATCH LINE SHEET 17 - STA. 90+80 CUT H-1

MATCH LINE SHEET 18 - STA. 25+45 CUT SC-2

MATCH LINE SHEET 15 - STA. 12+00 CUT M-15

GULF INTRACOASTAL WATERWAY
AZ 242°58'20"
CUT H-1

I-275 / US HWY 19 / STATE ROAD 93 / STATE ROAD 55

STA. 0+00 CUT SC-2
STA. 62+90.29 CUT SC-1

AZ 179°36'16"

STA. 0+00 CUT H-1/SC-1
STA. 285+13.79 CUT M-15

AZ 155°06'38"

CUT SC-1

SUNSHINE SKYWAY CHANNEL

CUT SC-2

GULF INTRACOASTAL WATERWAY
AZ 200°05'04"
CUT M-15

TAMPA BAY

HILLSBOROUGH COUNTY
PINELLAS COUNTY

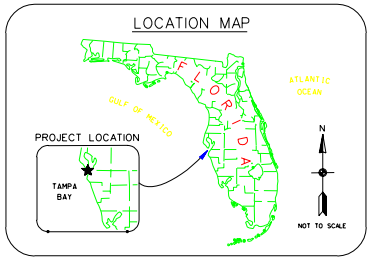
BONNE FORTUNE KEY

STATE ROAD 679

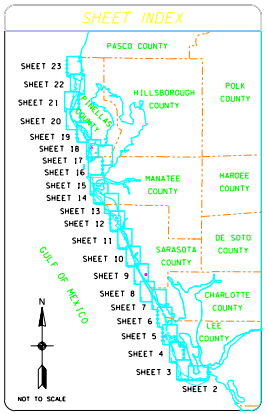
MULLET KEY

MANATEE COUNTY
HILLSBOROUGH COUNTY

LOCATION MAP



SHEET INDEX



G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES	
	EASTING (X)	NORTHING (Y)
M-15	282,763.42	1,192,599.86
H-1		
STA. 0+00 SC-1	282,763.42	1,192,599.86
STA. 0+00 SC-2	282,720.00	1,198,890.00

AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE	DATE
	EASTING (X)	NORTHING (Y)			
R2	281,621	1,200,915	27°38'09.58"	82°40'28.10"	9/15/98
G3	281,471	1,200,896	27°38'09.38"	82°40'29.76"	9/15/98
G1	282,026	1,199,419	27°37'54.78"	82°40'23.50"	9/15/98
G1A	283,966	1,193,492	27°36'56.20"	82°40'01.58"	9/15/98
R26	282,675	1,192,313	27°36'44.45"	82°40'15.86"	9/15/98
R70	277,420	1,178,229	27°34'24.70"	82°41'13.40"	9/15/98

N

1000 500 0 1000 2000FT
SCALE: 1" = 1000'

NOTES:
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SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

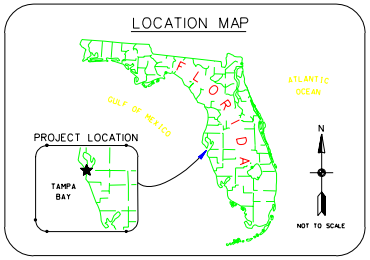
INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	SCALE: AS SHOWN	DATED: OCT 1998	SHEET 16 OF 23

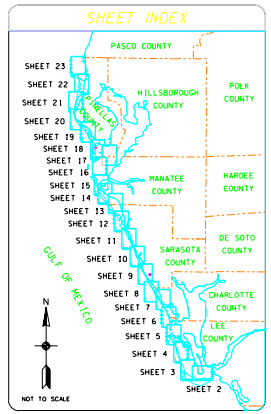
D.O. FILE NO. 41-37, 687

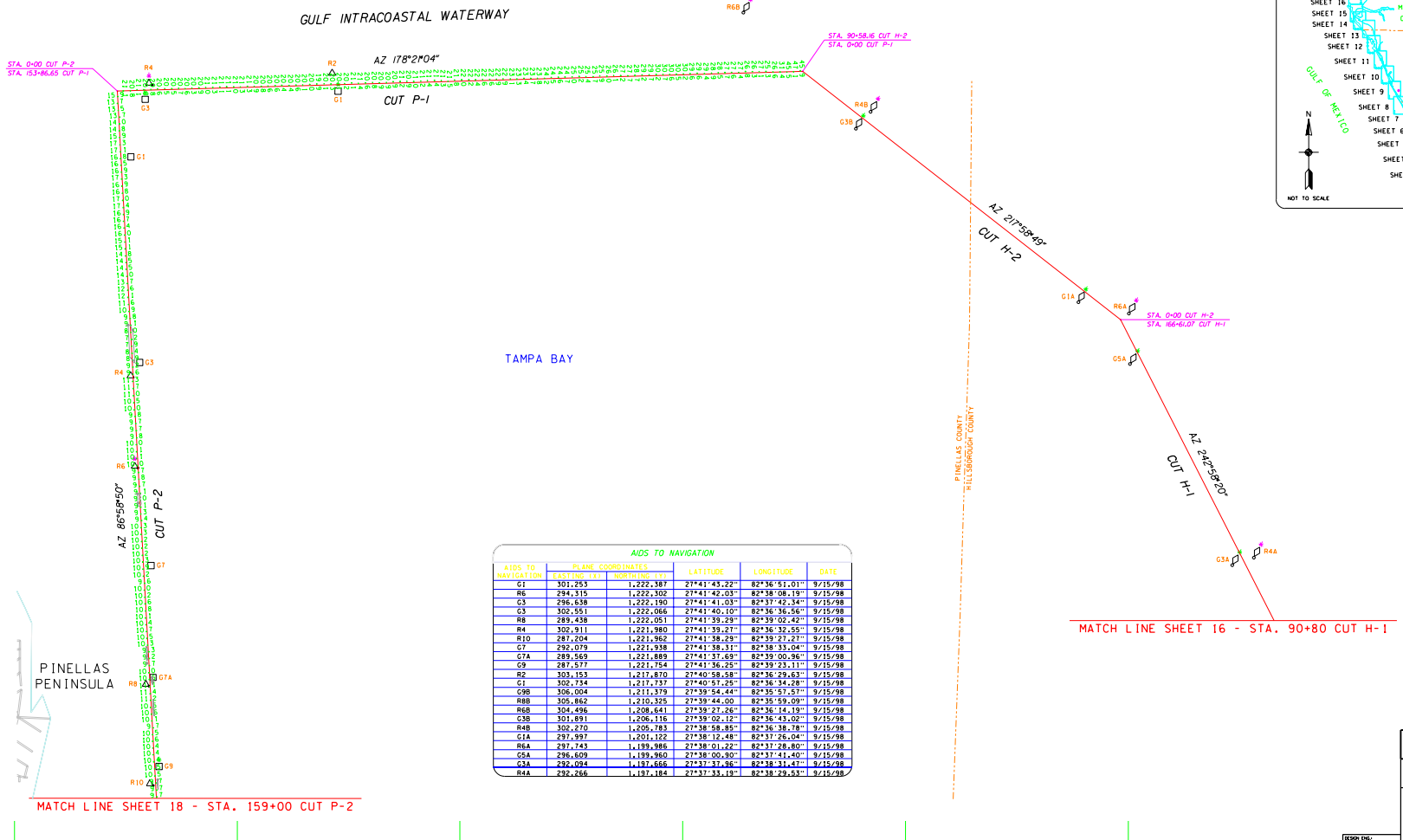
SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED



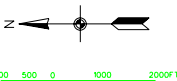
G.I.W.W. CENTERLINE CONTROL		
P. I. CUTS	PLANE COORDINATES EASTING (X)	NORTHING (Y)
H-1		
H-2	297,604.86	1,200,171.05
P-1	303,179.13	1,207,310.91
P-2	302,736.38	1,222,691.19





AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G1	301,253	1,222,387	27°41'43.22"	82°36'51.01"	9/15/98
R6	294,315	1,222,302	27°41'42.03"	82°38'08.19"	9/15/98
G3	296,638	1,222,190	27°41'41.03"	82°37'42.34"	9/15/98
G3	302,551	1,222,066	27°41'40.10"	82°36'36.56"	9/15/98
R8	289,438	1,222,051	27°41'39.29"	82°39'02.42"	9/15/98
R4	302,911	1,221,980	27°41'39.27"	82°36'32.55"	9/15/98
R10	287,204	1,221,962	27°41'38.29"	82°39'27.27"	9/15/98
G7	292,079	1,221,938	27°41'38.31"	82°38'33.04"	9/15/98
G7A	289,569	1,221,889	27°41'37.69"	82°39'00.96"	9/15/98
G9	287,577	1,221,754	27°41'36.25"	82°39'23.11"	9/15/98
R2	303,153	1,217,870	27°40'58.58"	82°36'29.63"	9/15/98
G1	302,734	1,217,737	27°40'57.25"	82°36'34.28"	9/15/98
G9B	306,004	1,211,379	27°39'54.44"	82°35'57.57"	9/15/98
R8B	305,862	1,210,325	27°39'44.00	82°35'59.09"	9/15/98
R6B	304,496	1,208,641	27°39'27.26"	82°36'14.19"	9/15/98
G3B	301,891	1,206,116	27°39'02.12"	82°36'43.02"	9/15/98
R4B	302,270	1,205,783	27°38'58.85"	82°36'38.78"	9/15/98
G1A	297,997	1,201,122	27°38'12.48"	82°37'26.04"	9/15/98
R6A	297,143	1,199,986	27°38'01.22"	82°37'26.80"	9/15/98
G5A	296,609	1,199,960	27°38'00.90"	82°37'41.40"	9/15/98
G3A	292,094	1,197,666	27°37'37.96"	82°38'31.47"	9/15/98
R4A	292,266	1,197,184	27°37'33.19"	82°38'29.53"	9/15/98



NOTES:

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SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
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INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRN. BY: D.J.M.	CKD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:	SCALE: AS SHOWN	DATED: OCT 1998

SHEET 17 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

MATCH LINE SHEET 17 - STA. 159+00 CUT P-2

MATCH LINE SHEET 16 - STA. 25+45 CUT SC-2

MATCH LINE SHEET 19 STA. 37+70 CUT P-8

Y 1,235,000 | Y 1,230,000 | Y 1,225,000 | Y 1,220,000 | Y 1,215,000

X 285,000 | X 280,000 | X 275,000 | X 270,000 | X 265,000

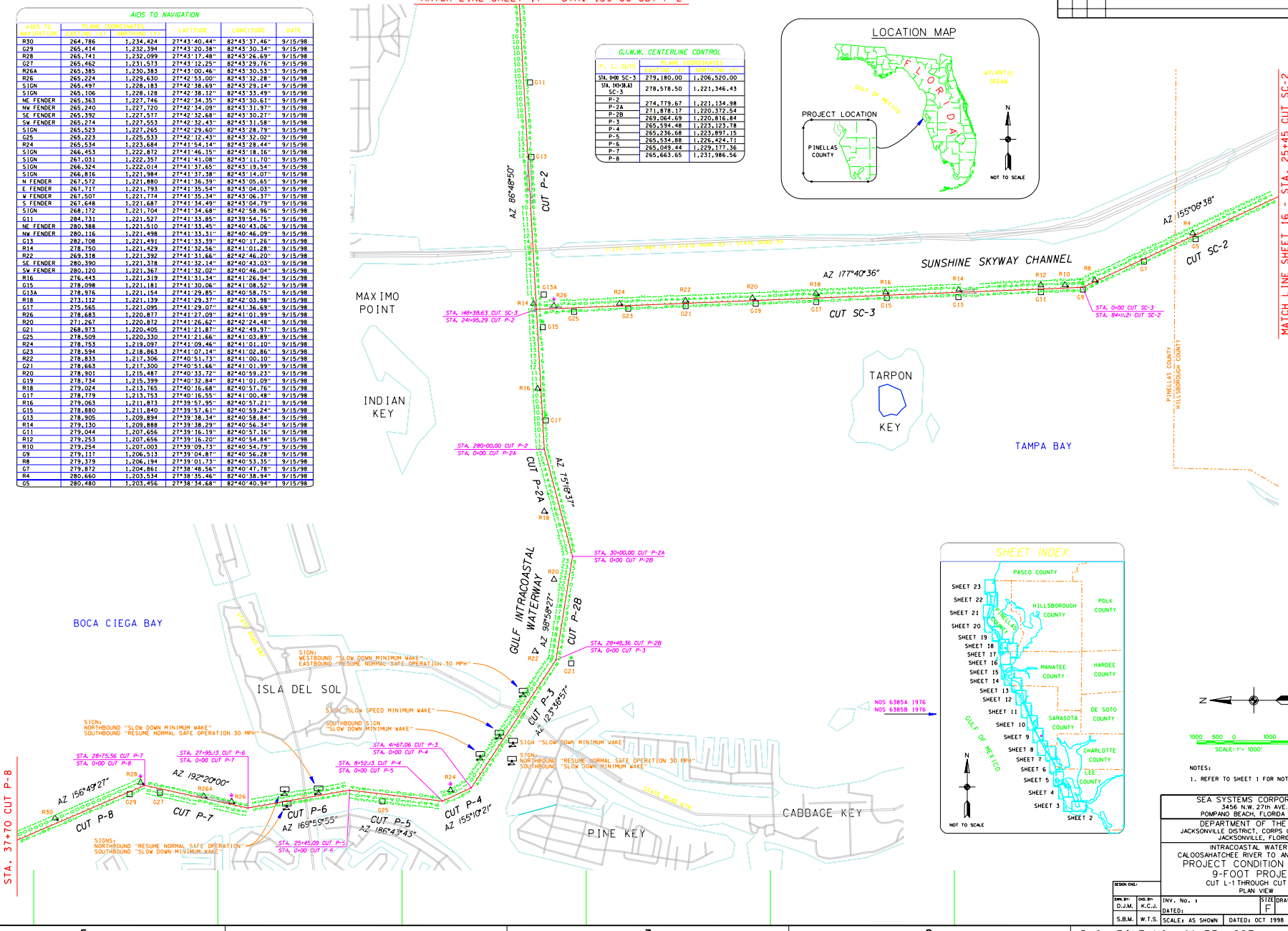
AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
R30	264,786	1,234,424	27°43'40.44"	82°43'37.46"	9/15/98
G29	265,414	1,232,394	27°43'20.38"	82°43'30.34"	9/15/98
R28	265,741	1,232,099	27°43'17.48"	82°43'26.69"	9/15/98
G27	265,462	1,231,573	27°43'12.25"	82°43'29.76"	9/15/98
R26A	265,385	1,230,383	27°43'00.46"	82°43'30.53"	9/15/98
R26	265,224	1,229,630	27°42'53.00"	82°43'32.28"	9/15/98
SIGN	265,497	1,228,183	27°42'38.69"	82°43'29.14"	9/15/98
SIGN	265,106	1,228,128	27°42'38.12"	82°43'33.49"	9/15/98
NE FENDER	265,363	1,227,746	27°42'34.35"	82°43'30.61"	9/15/98
NW FENDER	265,240	1,227,720	27°42'34.09"	82°43'31.97"	9/15/98
SE FENDER	265,392	1,227,517	27°42'32.68"	82°43'30.27"	9/15/98
SW FENDER	265,274	1,227,553	27°42'32.43"	82°43'31.58"	9/15/98
SIGN	265,523	1,227,265	27°42'29.60"	82°43'28.79"	9/15/98
G25	265,223	1,225,533	27°42'12.43"	82°43'32.02"	9/15/98
R24	265,534	1,223,684	27°41'54.14"	82°43'28.44"	9/15/98
SIGN	266,453	1,222,872	27°41'46.15"	82°43'18.16"	9/15/98
SIGN	267,031	1,222,357	27°41'41.08"	82°43'11.70"	9/15/98
SIGN	266,324	1,222,014	27°41'37.65"	82°43'19.54"	9/15/98
SIGN	266,816	1,221,984	27°41'37.38"	82°43'14.07"	9/15/98
N FENDER	267,572	1,221,880	27°41'36.39"	82°43'05.65"	9/15/98
E FENDER	267,717	1,221,793	27°41'35.54"	82°43'04.03"	9/15/98
W FENDER	267,507	1,221,774	27°41'35.34"	82°43'06.37"	9/15/98
S FENDER	267,648	1,221,687	27°41'34.49"	82°43'04.79"	9/15/98
SIGN	268,172	1,221,704	27°41'34.68"	82°42'58.96"	9/15/98
G11	284,731	1,221,527	27°41'33.85"	82°39'54.75"	9/15/98
NE FENDER	280,388	1,221,510	27°41'33.45"	82°40'43.06"	9/15/98
NW FENDER	280,216	1,221,498	27°41'33.31"	82°40'46.09"	9/15/98
G13	282,708	1,221,491	27°41'33.39"	82°40'17.26"	9/15/98
R14	278,750	1,221,429	27°41'32.56"	82°41'01.28"	9/15/98
R22	269,318	1,221,392	27°41'31.66"	82°42'46.20"	9/15/98
SE FENDER	280,390	1,221,378	27°41'32.14"	82°40'43.03"	9/15/98
SW FENDER	280,120	1,221,367	27°41'32.02"	82°40'46.04"	9/15/98
R16	276,443	1,221,319	27°41'31.34"	82°41'26.94"	9/15/98
G15	278,098	1,221,181	27°41'30.06"	82°41'08.52"	9/15/98
G13A	278,176	1,221,129	27°41'29.85"	82°40'58.75"	9/15/98
R18	273,112	1,221,139	27°41'29.37"	82°42'03.98"	9/15/98
G17	275,565	1,221,095	27°41'29.07"	82°41'36.69"	9/15/98
R26	278,683	1,220,877	27°41'27.09"	82°41'01.99"	9/15/98
R20	271,267	1,220,872	27°41'26.62"	82°42'24.48"	9/15/98
G21	268,973	1,220,405	27°41'21.87"	82°42'49.97"	9/15/98
G25	278,509	1,220,330	27°41'21.66"	82°41'03.89"	9/15/98
R24	278,753	1,219,097	27°41'09.46"	82°41'01.10"	9/15/98
G23	278,594	1,218,863	27°41'07.14"	82°41'02.86"	9/15/98
R22	278,833	1,217,306	27°40'51.73"	82°41'00.10"	9/15/98
G21	278,663	1,217,300	27°40'51.66"	82°41'01.99"	9/15/98
R20	278,901	1,215,487	27°40'33.72"	82°40'59.23"	9/15/98
G19	278,734	1,215,399	27°40'32.84"	82°41'01.09"	9/15/98
R18	279,024	1,213,765	27°40'16.68"	82°40'57.76"	9/15/98
G17	278,779	1,213,753	27°40'16.55"	82°41'00.48"	9/15/98
R16	279,063	1,211,873	27°39'57.95"	82°40'57.21"	9/15/98
G15	278,880	1,211,840	27°39'57.61"	82°40'59.24"	9/15/98
G13	278,905	1,209,894	27°39'38.34"	82°40'58.84"	9/15/98
R14	279,130	1,209,888	27°39'38.29"	82°40'56.34"	9/15/98
G11	279,044	1,207,656	27°39'16.19"	82°40'57.16"	9/15/98
R12	279,253	1,207,656	27°39'16.20"	82°40'54.84"	9/15/98
R10	279,254	1,207,003	27°39'09.73"	82°40'54.79"	9/15/98
G9	279,117	1,206,513	27°39'04.87"	82°40'56.28"	9/15/98
R8	279,379	1,206,194	27°39'01.73"	82°40'53.35"	9/15/98
G7	279,872	1,204,861	27°38'48.56"	82°40'47.78"	9/15/98
R4	280,660	1,203,534	27°38'35.46"	82°40'38.94"	9/15/98
G5	280,480	1,203,456	27°38'34.68"	82°40'40.94"	9/15/98

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
STA. 0+00 SC-3	279,180.00	1,206,520.00
STA. 149+38.63 SC-3	278,578.50	1,221,346.43
P-2	274,779.67	1,221,134.98
P-2A	271,878.17	1,220,372.54
P-2B	269,064.69	1,220,816.84
P-3	265,594.48	1,223,125.78
P-4	265,236.68	1,223,897.15
P-5	265,534.88	1,226,424.71
P-6	265,049.44	1,229,177.36
P-7	265,663.65	1,231,986.56
P-8		

LOCATION MAP



SHEET INDEX

N

1000 500 0 1000 2000FT

SCALE: 1" = 1000'

NOTES:

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9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRAWN BY: D.J.M.	CHKD BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 18 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

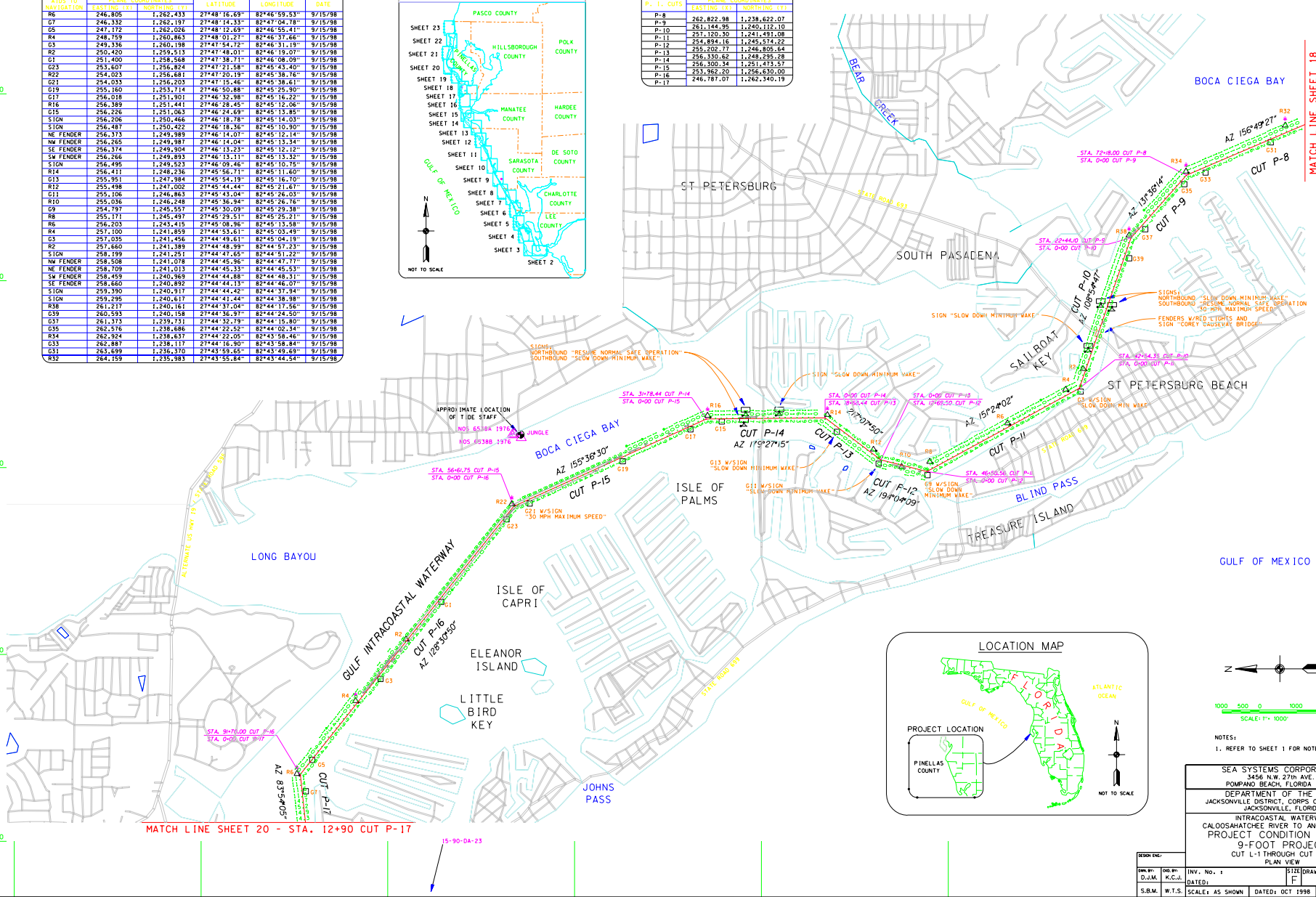
AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	DATE
R6	246,805	1,262,433	27°48'16.69"	82°46'59.53"	9/15/98
G7	246,332	1,262,197	27°48'14.33"	82°47'04.78"	9/15/98
G5	247,172	1,262,026	27°48'12.69"	82°46'55.41"	9/15/98
R4	248,759	1,260,863	27°48'01.27"	82°46'37.66"	9/15/98
G3	249,336	1,260,198	27°47'54.72"	82°46'31.19"	9/15/98
R2	250,420	1,259,513	27°47'48.01"	82°46'19.07"	9/15/98
G1	251,400	1,258,568	27°47'38.71"	82°46'08.09"	9/15/98
G23	253,607	1,256,824	27°47'21.58"	82°45'43.40"	9/15/98
R22	254,023	1,256,681	27°47'20.19"	82°45'38.76"	9/15/98
G21	254,033	1,256,203	27°47'15.46"	82°45'38.61"	9/15/98
G19	255,160	1,253,714	27°46'50.88"	82°45'25.90"	9/15/98
G17	256,018	1,251,901	27°46'32.98"	82°45'16.22"	9/15/98
R16	256,389	1,251,441	27°46'28.45"	82°45'12.06"	9/15/98
G15	256,226	1,251,063	27°46'24.69"	82°45'13.85"	9/15/98
SIGN	256,206	1,250,466	27°46'18.78"	82°45'14.03"	9/15/98
SIGN	256,487	1,250,422	27°46'18.36"	82°45'10.90"	9/15/98
NE FENDER	256,373	1,249,989	27°46'14.07"	82°45'12.14"	9/15/98
NW FENDER	256,265	1,249,987	27°46'14.04"	82°45'13.34"	9/15/98
SE FENDER	256,374	1,249,904	27°46'13.23"	82°45'12.12"	9/15/98
SW FENDER	256,266	1,249,893	27°46'13.11"	82°45'13.32"	9/15/98
SIGN	256,495	1,249,523	27°46'09.46"	82°45'10.75"	9/15/98
R14	256,411	1,248,236	27°45'56.71"	82°45'11.60"	9/15/98
G13	255,951	1,247,984	27°45'54.19"	82°45'16.70"	9/15/98
R12	255,498	1,247,002	27°45'44.44"	82°45'21.67"	9/15/98
G11	255,106	1,246,863	27°45'43.04"	82°45'26.03"	9/15/98
R10	255,036	1,246,248	27°45'36.94"	82°45'26.76"	9/15/98
G9	254,797	1,245,557	27°45'30.09"	82°45'29.38"	9/15/98
R8	255,171	1,245,497	27°45'29.51"	82°45'25.21"	9/15/98
R6	256,203	1,243,415	27°45'08.96"	82°45'13.58"	9/15/98
R4	257,100	1,241,859	27°44'53.61"	82°45'03.49"	9/15/98
G3	257,035	1,241,456	27°44'49.61"	82°45'04.19"	9/15/98
R2	257,660	1,241,389	27°44'48.99"	82°44'57.23"	9/15/98
SIGN	258,199	1,241,251	27°44'47.65"	82°44'51.22"	9/15/98
NW FENDER	258,508	1,241,078	27°44'45.96"	82°44'47.77"	9/15/98
NE FENDER	258,709	1,241,013	27°44'45.33"	82°44'45.53"	9/15/98
SW FENDER	258,479	1,240,969	27°44'44.88"	82°44'48.31"	9/15/98
SE FENDER	258,660	1,240,892	27°44'44.13"	82°44'46.07"	9/15/98
SIGN	259,390	1,240,917	27°44'44.42"	82°44'37.94"	9/15/98
SIGN	259,295	1,240,617	27°44'41.44"	82°44'38.98"	9/15/98
R38	261,217	1,240,161	27°44'37.04"	82°44'17.56"	9/15/98
G39	260,593	1,240,158	27°44'36.97"	82°44'24.50"	9/15/98
G37	261,373	1,239,731	27°44'32.79"	82°44'15.80"	9/15/98
G35	262,576	1,238,686	27°44'22.52"	82°44'02.34"	9/15/98
R34	262,924	1,238,637	27°44'22.05"	82°43'58.46"	9/15/98
G33	262,887	1,238,117	27°44'16.90"	82°43'58.84"	9/15/98
G31	263,699	1,236,370	27°43'59.65"	82°43'49.69"	9/15/98
R32	264,159	1,235,983	27°43'55.84"	82°43'44.54"	9/15/98

SHEET INDEX

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	NORTHING (Y)
P-8	262,822.98	1,238,622.07
P-9	261,144.95	1,240,112.10
P-10	257,120.30	1,241,491.08
P-11	254,894.16	1,245,574.22
P-12	255,202.77	1,246,805.64
P-13	256,330.62	1,248,295.28
P-14	256,300.34	1,251,473.57
P-15	253,962.20	1,256,630.00
P-16	246,787.07	1,262,340.19
P-17	246,787.07	1,262,340.19



LOCATION MAP

N

1000 500 0 1000 2000FT

SCALE: 1" = 1000'

NOTES:

1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DRWN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 19 OF 23

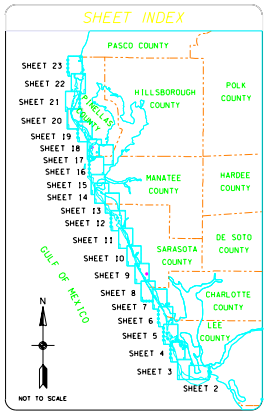
15-90-DA-23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

SHEET INDEX



AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
R38	228,565	1,293,995	27°53'28.02"	82°50'25.03"	9/16/98
SIGN	227,694	1,292,560	27°53'13.75"	82°50'34.63"	9/16/98
SIGN	227,901	1,292,473	27°53'12.90"	82°50'32.32"	9/16/98
G37	227,622	1,292,302	27°53'11.19"	82°50'35.41"	9/16/98
R36	227,546	1,291,806	27°53'06.27"	82°50'36.22"	9/16/98
G35	227,156	1,291,646	27°53'04.66"	82°50'40.56"	9/16/98
SIGN	227,005	1,291,495	27°53'03.16"	82°50'42.23"	9/16/98
SIGN	227,169	1,291,353	27°53'01.76"	82°50'40.39"	9/16/98
N FENDER	226,870	1,291,240	27°53'00.62	82°50'43.71"	9/16/98
E FENDER	226,966	1,291,164	27°52'59.88"	82°50'42.64"	9/16/98
W FENDER	226,722	1,291,069	27°52'58.92"	82°50'45.35"	9/16/98
S FENDER	226,812	1,290,985	27°52'58.09"	82°50'44.34"	9/16/98
G33	226,006	1,290,248	27°52'50.74"	82°50'53.26"	9/16/98
R34	226,117	1,290,147	27°52'49.75"	82°50'52.02"	9/16/98
SIGN	225,839	1,290,042	27°52'48.69"	82°50'55.11"	9/16/98
SIGN	226,013	1,289,933	27°52'47.62"	82°50'53.16"	9/16/98
R32	225,633	1,289,304	27°52'41.37"	82°50'57.35"	9/16/98
G31	225,322	1,288,873	27°52'37.08"	82°51'00.78"	9/16/98
R30A	225,474	1,288,418	27°52'32.58"	82°50'59.05"	9/16/98
R30	225,536	1,287,436	27°52'22.87"	82°50'58.28"	9/16/98
G29	225,435	1,287,041	27°52'18.95"	82°50'59.38"	9/16/98
R28	225,646	1,286,564	27°52'14.24"	82°50'56.99"	9/16/98
G27B	225,553	1,286,532	27°52'13.92"	82°50'58.02"	9/16/98
G27A	225,836	1,285,777	27°52'06.46"	82°50'54.81"	9/16/98
SIGN	226,465	1,284,536	27°51'54.21"	82°50'47.71"	9/16/98
SIGN	226,230	1,284,464	27°51'53.49"	82°50'50.32"	9/16/98
R26	226,460	1,284,375	27°51'52.62"	82°50'47.75"	9/16/98
G27	226,333	1,284,315	27°51'52.02"	82°50'49.16"	9/16/98
G25	226,856	1,283,395	27°51'42.94"	82°50'43.26"	9/16/98
R24	227,083	1,283,110	27°51'40.14"	82°50'40.71"	9/16/98
G23	227,178	1,282,485	27°51'33.96"	82°50'39.61"	9/16/98
R22	227,486	1,281,589	27°51'25.10"	82°50'36.11"	9/16/98
G21	227,681	1,280,369	27°51'13.04"	82°50'33.84"	9/16/98
R20	227,942	1,279,886	27°51'08.27"	82°50'30.90"	9/16/98
G19	227,866	1,279,627	27°51'05.70"	82°50'31.72"	9/16/98
SIGN	228,304	1,278,492	27°50'54.49"	82°50'26.76"	9/16/98
R18	228,288	1,278,436	27°50'53.94"	82°50'26.93"	9/16/98
SIGN	228,096	1,278,418	27°50'53.75"	82°50'29.07"	9/16/98
G17	228,228	1,278,008	27°50'49.70"	82°50'27.57"	9/16/98
G15	228,757	1,277,328	27°50'43.00"	82°50'21.62"	9/16/98
R14	229,087	1,277,068	27°50'40.45"	82°50'17.93"	9/16/98
NW FENDER	228,998	1,276,843	27°50'38.21"	82°50'18.90"	9/16/98
NE FENDER	229,123	1,276,839	27°50'38.18"	82°50'17.51"	9/16/98
SW FENDER	228,994	1,276,615	27°50'35.96"	82°50'18.93"	9/16/98
SE FENDER	229,117	1,276,610	27°50'35.91"	82°50'17.56"	9/16/98
R12	229,130	1,276,405	27°50'33.89"	82°50'17.40"	9/16/98
SIGN	229,245	1,275,786	27°50'27.76"	82°50'16.07"	9/16/98
G11	229,068	1,275,774	27°50'27.63"	82°50'18.04"	9/16/98

AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
SIGN	229,071	1,275,648	27°50'26.39"	82°50'18.00"	9/16/98
R10	229,332	1,275,526	27°50'25.20"	82°50'15.08"	9/16/98
G9	229,457	1,275,129	27°50'21.27"	82°50'13.66"	9/16/98
G7	230,510	1,273,559	27°50'05.80"	82°50'01.81"	9/16/98
R6	230,878	1,273,401	27°50'04.26"	82°49'57.70"	9/16/98
R4	231,255	1,273,279	27°50'03.08	82°49'53.49"	9/16/98
G5	230,747	1,273,190	27°50'02.16"	82°49'59.14"	9/16/98
R2	232,851	1,272,994	27°50'00.36"	82°49'35.70"	9/16/98
SIGN	233,050	1,272,958	27°50'00.02"	82°49'33.48"	9/16/98
G3	232,518	1,272,893	27°49'59.34"	82°49'39.40"	9/16/98
G1	232,930	1,272,772	27°49'58.17"	82°49'34.80"	9/16/98
SIGN	233,063	1,272,703	27°49'57.49"	82°49'33.31"	9/16/98
G27	233,615	1,272,454	27°49'55.06"	82°49'27.15"	9/16/98
R24	234,869	1,271,953	27°49'50.19"	82°49'13.14"	9/16/98
G25	234,545	1,271,933	27°49'49.97"	82°49'16.75"	9/16/98
G23	235,024	1,271,578	27°49'46.48"	82°49'11.39"	9/16/98
G21	236,072	1,270,459	27°49'35.47"	82°48'59.63"	9/16/98
R20	237,283	1,269,444	27°49'25.50"	82°48'46.07"	9/16/98
R18	238,302	1,268,424	27°49'15.47"	82°48'34.65"	9/16/98
G19	238,167	1,268,311	27°49'14.34"	82°48'36.14"	9/16/98
G17	239,752	1,266,688	27°48'58.37"	82°48'18.37"	9/16/98
R16	241,461	1,265,185	27°48'43.60"	82°47'59.23"	9/16/98
G15	241,206	1,265,104	27°48'42.78"	82°48'02.07"	9/16/98
R14	241,965	1,264,450	27°48'36.36"	82°47'53.57"	9/16/98
SIGN	242,237	1,264,106	27°48'32.97"	82°47'50.51"	9/16/98
G13	242,079	1,263,819	27°48'30.12"	82°47'52.25"	9/16/98
SIGN	242,037	1,263,779	27°48'29.72"	82°47'52.72"	9/16/98
N FENDER	242,930	1,263,509	27°48'25.12"	82°47'42.73"	9/16/98
W FENDER	242,834	1,263,215	27°48'24.18"	82°47'43.80"	9/16/98
E FENDER	243,058	1,263,195	27°48'24.00"	82°47'41.30"	9/16/98
S FENDER	242,971	1,263,108	27°48'23.13"	82°47'42.27"	9/16/98
SIGN	243,546	1,262,874	27°48'20.85"	82°47'35.85"	9/15/98
SIGN	243,342	1,262,691	27°48'19.03"	82°47'38.11"	9/15/98
R10	244,005	1,262,450	27°48'16.68"	82°47'30.71"	9/15/98
R8	244,843	1,262,263	27°48'14.89"	82°47'21.36"	9/15/98
G9	244,335	1,261,986	27°48'12.11"	82°47'27.00"	9/15/98

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
P-17	244,305.00	1,262,075.00
P-18	242,150.80	1,263,864.10
P-19	241,426.80	1,265,071.30
P-20	234,792.54	1,271,905.65
P-21	232,810.75	1,272,927.73
P-22	230,788.12	1,273,260.15
P-23	229,094.00	1,275,780.00
P-24	229,045.80	1,277,102.12
P-25	228,308.00	1,278,023.03
P-26	227,113.00	1,283,123.00
P-27	226,400.90	1,284,328.40
P-28	225,465.00	1,287,057.30
P-29	225,409.40	1,288,859.00
P-30	226,102.30	1,290,260.40
P-31	227,470.85	1,291,845.80
P-32		

MATCH LINE SHEET 19 - STA. 12+90 CUT P-17

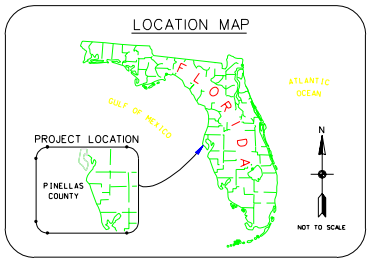
MATCH LINE SHEET 21 - STA. 27+65 CUT P-32

SEMINOLE
MADEIRA BEACH
REDINGTON BEACH
NORTH REDINGTON BEACH
OAKHURST
WALSINGHAM
CONCH KEY
REDINGTON SHORES
INDIAN SHORES
BOCA CIEGA BAY
GULF INTRACOASTAL WATERWAY
GULF OF MEXICO
STATE ROAD 699
STATE ROAD 694
STATE ROAD 688
GULF BLVD.

CUT P-18 AZ 129°50'29"
CUT P-19 AZ 148°42'00"
CUT P-20 AZ 135°55'04"
CUT P-21 AZ 149°16'54"
CUT P-22 AZ 99°20'00"
CUT P-23
CUT P-24 AZ 177°54'44"
CUT P-25 AZ 141°16'00"
CUT P-26
CUT P-27 AZ 149°29'36"
CUT P-28 AZ 161°04'11"
CUT P-29 AZ 178°14'02"
CUT P-30 AZ 206°18'34"
CUT P-31 AZ 220°48'01"
CUT P-32 AZ 205°21'57"

APPROXIMATE LOCATION OF TIDE STAFF

LOCATION MAP



1000 500 0 1000 2000FT
SCALE: 1" = 1000'

NOTES:
1. REFER TO SHEET 1 FOR NOTES.

SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

DESIGN ENG.				
DWN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 20 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

MATCH LINE SHEET 22 - STA. 5+00 CUT P-38A

MATCH LINE SHEET 20 - STA. 27+65 CUT P-32

Y 1,330,000 | Y 1,325,000 | Y 1,320,000 | Y 1,315,000 | Y 1,310,000 | Y 1,305,000

X 245,000 | X 240,000 | X 235,000 | X 230,000 | X 225,000

CLEARWATER

ALTERNATE US HWY 19 / STATE ROAD 595

STATE ROAD 595

AZ 192°08'33"

CUT P-37

AZ 182°58'44"

CUT P-36

AZ 207°52'34"

CUT P-35

AZ 201°30'54"

CUT P-34

AZ 196°08'01"

CUT P-33

AZ 205°27'57"

CUT P-32

STA. 0+00 CUT P-36
STA. 108+17.67 CUT P-35

STA. 39+95.41 CUT P-37
STA. 0+00 CUT P-38A

STA. 21+31.38 CUT P-36
STA. 0+00 CUT P-37

STA. 0+00 CUT P-35
STA. 114+77.75 CUT P-34

STA. 63+07.02 CUT P-33
STA. 0+00 CUT P-34

STA. 0+00 CUT P-33
STA. 43+34.65 CUT P-32

IWPI 15

FENDERS W/RED LIGHTS AND SIGN "CLEARWATER MEMORIAL BRIDGE"

SIGN:
NORTHBOUND "SLOW SPEED MINIMUM WAKE"
SOUTHBOUND "RESUME NORMAL SAFE OPERATION
30 MPH MAXIMUM SPEED"

SIGN:
NORTHBOUND "RESUME NORMAL SAFE OPERATION
30 MPH MAXIMUM SPEED"
SOUTHBOUND "SLOW SPEED MINIMUM WAKE"

SIGNS:
NORTHBOUND "RESUME NORMAL SAFE OPERATION
30 MPH MAXIMUM SPEED"
SOUTHBOUND "SLOW SPEED MINIMUM WAKE"

FENDERS W/RED LIGHTS AND SIGN "BELLAIR CAUSEWAY"

SIGNS:
NORTHBOUND "SLOW SPEED MINIMUM WAKE"
SOUTHBOUND "RESUME NORMAL SAFE OPERATION
30 MPH MAXIMUM SPEED"

G45 W/SIGN
"30 MPH MAXIMUM SPEED"

G41 W/SIGN
"30 MPH MAXIMUM SPEED"

BELLEAIR

BELLEVIEW ISLAND

BELLEAIR BLUFFS

HARBOR BLUFFS

CLEARWATER BEACH ISLAND

LITTLE PASS

SAND KEY

CLEARWATER HARBOR

GULF INTRACOASTAL WATERWAY

McKAY CREEK

STATE ROAD 699

BELLEAIR BEACH

BELLEAIR SHORES

INDIAN ROCKS BEACH

GULF OF MEXICO

G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	NORTHING (Y)
P-32		
P-33	229,327.80	1,295,762.60
P-34	231,080.60	1,301,822.00
P-35	235,290.00	1,312,500.00
P-36	240,347.94	1,322,062.40
P-37	240,458.70	1,324,190.90
P-38A	241,299.11	1,328,096.92

LOCATION MAP

PROJECT LOCATION

PINELLAS COUNTY

ATLANTIC OCEAN

GULF OF MEXICO

NOT TO SCALE

SHEET INDEX

PASCO COUNTY
HILLSBOROUGH COUNTY
PINELLAS COUNTY
POLK COUNTY
MANATEE COUNTY
HARDEE COUNTY
SARASOTA COUNTY
DE SOTO COUNTY
CHARLOTTE COUNTY
LEE COUNTY
GULF OF MEXICO

SHEET 23
SHEET 22
SHEET 21
SHEET 20
SHEET 19
SHEET 18
SHEET 17
SHEET 16
SHEET 15
SHEET 14
SHEET 13
SHEET 12
SHEET 11
SHEET 10
SHEET 9
SHEET 8
SHEET 7
SHEET 6
SHEET 5
SHEET 4
SHEET 3
SHEET 2

NOT TO SCALE

AIDS TO NAVIGATION

AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	NORTHING (Y)	LATITUDE	LONGITUDE	DATE
G19	241,231	1,328,095	27°59'06.50"	82°48'06.38"	9/16/98
R18	241,383	1,328,086	27°59'06.42"	82°48'04.68"	9/16/98
G17	240,740	1,325,806	27°58'43.81"	82°48'11.69"	9/16/98
G15A	240,602	1,325,133	27°58'37.15"	82°48'13.18"	9/16/98
G15	240,385	1,324,255	27°58'28.43"	82°48'15.53"	9/16/98
R16	240,544	1,324,203	27°58'27.92"	82°48'13.76"	9/16/98
R14A WR	240,435	1,322,732	27°58'13.35"	82°48'14.86"	9/16/98
R14	240,413	1,322,042	27°58'06.52"	82°48'15.06"	9/16/98
SIGN	239,928	1,321,992	27°58'05.99"	82°48'20.46"	9/16/98
N FENDER	239,870	1,321,344	27°57'59.57"	82°48'21.06"	9/16/98
E FENDER	239,979	1,321,281	27°57'58.95"	82°48'19.84"	9/16/98
W FENDER	239,788	1,321,188	27°57'58.02"	82°48'21.97"	9/16/98
S FENDER	239,872	1,321,080	27°57'56.95"	82°48'21.02"	9/16/98
SIGN	239,740	1,320,720	27°57'53.38"	82°48'22.47"	9/16/98
G13	238,592	1,318,908	27°57'35.36"	82°48'35.13"	9/16/98
R12	238,452	1,318,289	27°57'29.23"	82°48'36.65"	9/16/98
G11	237,295	1,316,404	27°57'10.49"	82°48'49.41"	9/16/98
R10	236,449	1,314,492	27°56'51.50"	82°48'58.70"	9/16/98
R8A	235,842	1,313,345	27°56'40.10"	82°49'05.38"	9/16/98
G7	235,205	1,312,510	27°56'31.79"	82°49'12.42"	9/16/98
R8	235,383	1,312,447	27°56'31.18"	82°49'10.43"	9/16/98
G5	234,285	1,310,031	27°56'07.18"	82°49'22.49"	9/16/98
R6	234,471	1,309,951	27°56'06.40"	82°49'20.42"	9/16/98
R4	233,321	1,307,291	27°55'39.99"	82°49'33.04"	9/16/98
G3	233,151	1,307,285	27°55'39.92"	82°49'34.93"	9/16/98
G1A	232,892	1,306,568	27°55'32.80"	82°49'37.76"	9/16/98
G1	232,605	1,305,891	27°55'26.08"	82°49'40.91"	9/16/98
R2	232,728	1,305,859	27°55'25.77"	82°49'39.54"	9/16/98
SIGN	231,649	1,303,803	27°55'05.34"	82°49'51.41"	9/16/98
SIGN	231,961	1,303,750	27°55'04.84"	82°49'47.93"	9/16/98
NW FENDER	231,606	1,303,346	27°55'00.81"	82°49'51.85"	9/16/98
NE FENDER	231,729	1,303,324	27°55'00.60"	82°49'50.48"	9/16/98
SW FENDER	231,551	1,303,173	27°54'59.10"	82°49'52.45"	9/16/98
SE FENDER	231,674	1,303,154	27°54'58.92"	82°49'51.08"	9/16/98
SIGN	231,354	1,302,803	27°54'55.42"	82°49'54.62"	9/16/98
SIGN	231,557	1,302,717	27°54'54.58"	82°49'52.35"	9/16/98
G47	231,047	1,301,904	27°54'46.50"	82°49'57.98"	9/16/98
R46	230,666	1,300,079	27°54'28.40"	82°50'02.08"	9/16/98
G45	230,108	1,298,780	27°54'15.50"	82°50'08.20"	9/16/98
R44	229,874	1,297,323	27°54'01.06"	82°50'10.70"	9/16/98
R42	229,407	1,295,726	27°53'45.21"	82°50'15.78"	9/16/98
G41	229,216	1,295,685	27°53'44.79"	82°50'17.91"	9/16/98
R40	228,910	1,294,728	27°53'35.30"	82°50'21.25"	9/16/98
G39	228,749	1,294,673	27°53'34.74"	82°50'23.04"	9/16/98

N

1000 500 0 1000 2000FT

SCALE: 1" = 1000'

NOTES:

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SEA SYSTEMS CORPORATION
3456 N.W. 27th AVE.
POMPANO BEACH, FLORIDA 33069

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

INTRACOASTAL WATERWAY
CALOOSAHATCHEE RIVER TO ANCLOTE RIVER
PROJECT CONDITION SURVEY
9-FOOT PROJECT
CUT L-1 THROUGH CUT P-41
PLAN VIEW

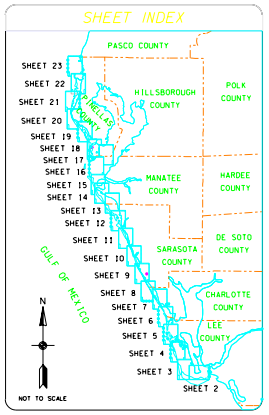
DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 21 OF 23

D.O. FILE NO. 41-37, 687

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED

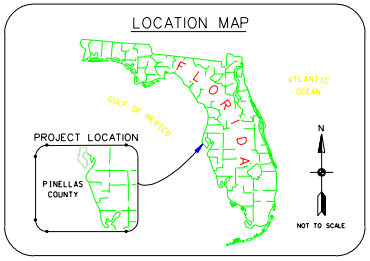
SHEET INDEX



AIDS TO NAVIGATION

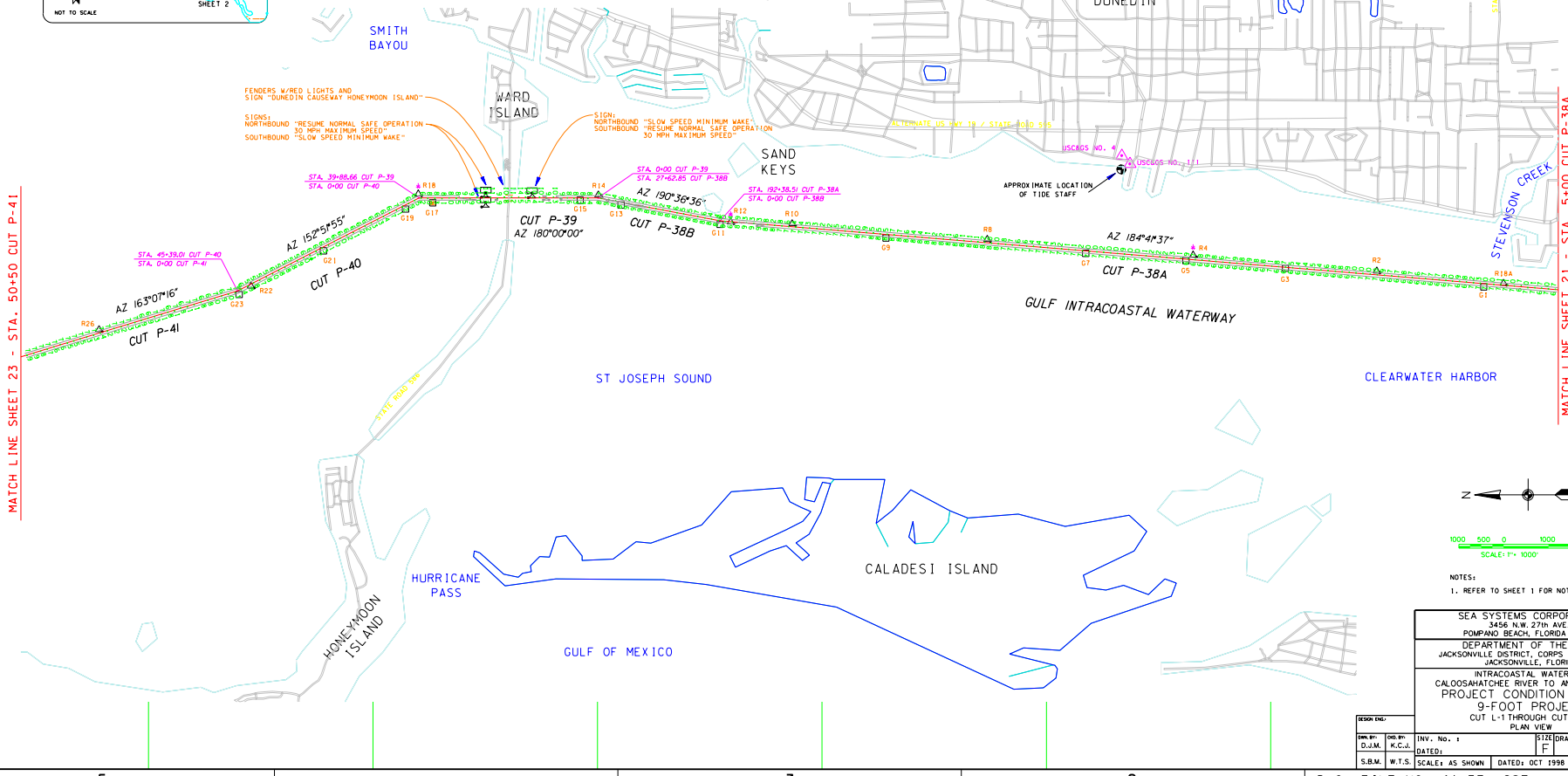
AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)	LATITUDE	LONGITUDE	DATE
R26	240,466	1,361,105	28°04'33.30"	82°48'17.34"	9/16/98
G23	241,233	1,357,982	28°04'02.43"	82°48'08.55"	9/16/98
R22	241,433	1,357,718	28°03'59.83"	82°48'06.30"	9/16/98
G21	242,199	1,356,107	28°03'43.93"	82°47'57.63"	9/16/98
G19	243,151	1,354,278	28°03'25.88"	82°47'47.10"	9/16/98
R18	243,472	1,353,990	28°03'23.05"	82°47'43.27"	9/16/98
G17	243,269	1,353,670	28°03'19.87"	82°47'45.51"	9/16/98
SIGN	243,278	1,352,491	28°03'08.19"	82°47'45.33"	9/16/98
SIGN	243,495	1,352,489	28°03'08.19"	82°47'42.90"	9/16/98
NW FENDER	243,319	1,352,056	28°03'03.89"	82°47'44.84"	9/16/98
NE FENDER	243,448	1,352,053	28°03'03.87"	82°47'43.40"	9/16/98
SW FENDER	243,316	1,351,887	28°03'02.21"	82°47'44.86"	9/16/98
SE FENDER	243,444	1,351,884	28°03'02.19"	82°47'43.43"	9/16/98
SIGN	243,488	1,351,452	28°02'57.92"	82°47'42.91"	9/16/98
G15	243,326	1,350,387	28°02'47.36"	82°47'44.64"	9/16/98
R14	243,462	1,349,980	28°02'43.34"	82°47'43.09"	9/16/98
G13	243,219	1,349,475	28°02'38.33"	82°47'45.76"	9/16/98
G11	242,795	1,347,268	28°02'16.45"	82°47'50.33"	9/16/98
R12	242,849	1,347,033	28°02'14.12"	82°47'49.71"	9/16/98
R10	242,825	1,345,661	28°02'00.54"	82°47'49.88"	9/16/98
G9	242,486	1,343,574	28°01'39.85"	82°47'53.51"	9/16/98
R8	242,475	1,341,317	28°01'17.50"	82°47'53.47"	9/16/98
G7	242,145	1,339,124	28°00'55.77"	82°47'56.99"	9/16/98
G5	241,982	1,336,892	28°00'33.66"	82°47'58.65"	9/16/98
R4	242,110	1,336,729	28°00'32.05"	82°47'57.21"	9/16/98
G3	241,811	1,334,675	28°00'11.69"	82°48'00.39"	9/16/98
R2	241,771	1,332,641	27°59'51.55"	82°48'00.69"	9/16/98
G1	241,598	1,330,259	27°59'27.94"	82°48'04.68"	9/16/98
R18A	241,498	1,329,817	27°59'23.57"	82°48'03.53"	9/16/98

LOCATION MAP



G.I.W.W. CENTERLINE CONTROL

P. I. CUTS	PLANE COORDINATES EASTING (X)	PLANE COORDINATES NORTHING (Y)
P-38A	242,873.35	1,347,270.91
P-38B	243,382.06	1,349,986.52
P-39	243,382.06	1,353,975.18
P-40	241,311.89	1,358,014.61
P-41		



N

1000 500 0 1000 2000FT

SCALE: 1" = 1000'

NOTES:

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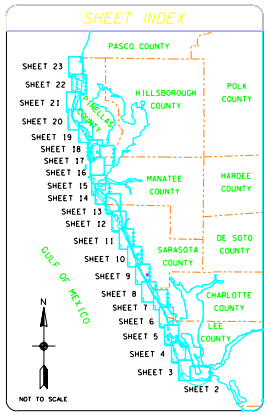
PLAN VIEW

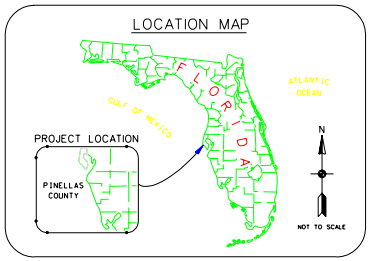
DESIGN ENG.				
DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	DATED:		
		SCALE: AS SHOWN	DATED: OCT 1998	SHEET 22 OF 23

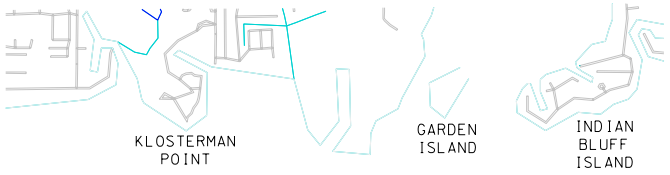
D.O. FILE NO. 41-37, 687

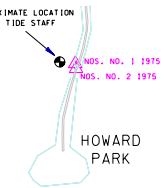
SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS					
NO.	SYM.	ZONE	DESCRIPTION	DATE	APPROVED



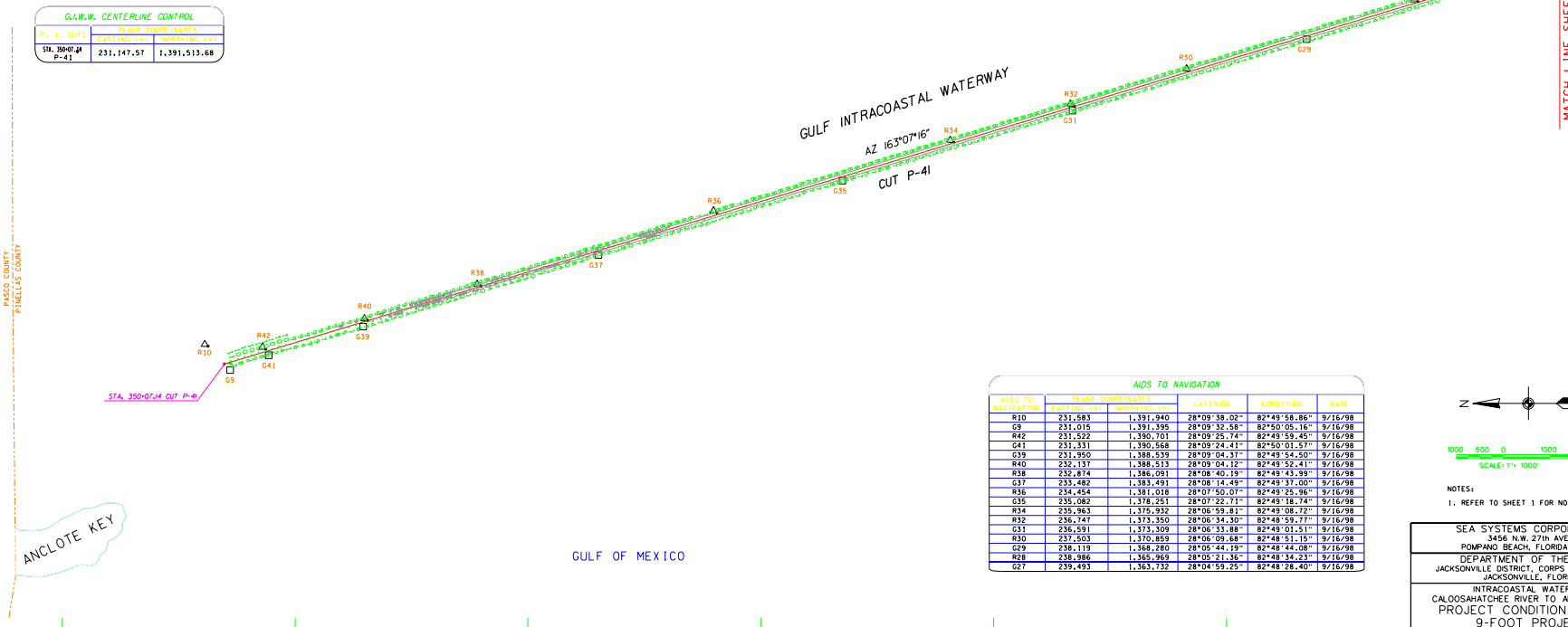






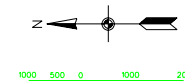
ST JOSEPH SOUND

G.I.W.W. CENTERLINE CONTROL		
P. I. CUTS	PLANE COORDINATES EASTING (X')	NORTHING (Y')
STA. 350+07.14 P-41	231,147.57	1,391,513.68



MATCH LINE SHEET 22 - STA. 50+50 CUT P-41

AIDS TO NAVIGATION					
AIDS TO NAVIGATION	PLANE COORDINATES EASTING (X')	PLANE COORDINATES NORTHING (Y')	LATITUDE	LONGITUDE	DATE
R10	231,583	1,391,940	28°09'38.02"	82°49'58.86"	9/16/98
G9	231,015	1,391,395	28°09'32.58"	82°50'05.16"	9/16/98
R42	231,522	1,390,701	28°09'25.74"	82°49'59.45"	9/16/98
G41	231,331	1,390,568	28°09'24.41"	82°50'01.57"	9/16/98
G39	231,950	1,388,539	28°09'04.37"	82°49'54.50"	9/16/98
R40	232,137	1,388,513	28°09'04.12"	82°49'52.41"	9/16/98
R38	232,874	1,386,091	28°08'40.19"	82°49'43.99"	9/16/98
G37	233,482	1,383,491	28°08'14.49"	82°49'37.00"	9/16/98
R36	234,454	1,381,018	28°07'50.07"	82°49'25.96"	9/16/98
G35	235,082	1,378,251	28°07'22.71"	82°49'18.74"	9/16/98
R34	235,963	1,375,932	28°06'59.81"	82°49'08.72"	9/16/98
R32	236,747	1,373,350	28°06'34.30"	82°48'59.77"	9/16/98
G31	236,591	1,373,309	28°06'33.88"	82°49'01.51"	9/16/98
R30	237,503	1,370,859	28°06'09.68"	82°48'51.15"	9/16/98
G29	238,119	1,368,280	28°05'44.19"	82°48'44.08"	9/16/98
R28	238,986	1,365,969	28°05'21.36"	82°48'34.23"	9/16/98
G27	239,493	1,363,732	28°04'59.25"	82°48'28.40"	9/16/98



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DRN. BY: D.J.M.	CHD. BY: K.C.J.	INV. No. :	SIZE: F	DRAWING NO.
S.B.M.	W.T.S.	SCALE: AS SHOWN	DATED: OCT 1998	SHEET 23 OF 23

D.O. FILE NO. 41-37, 687