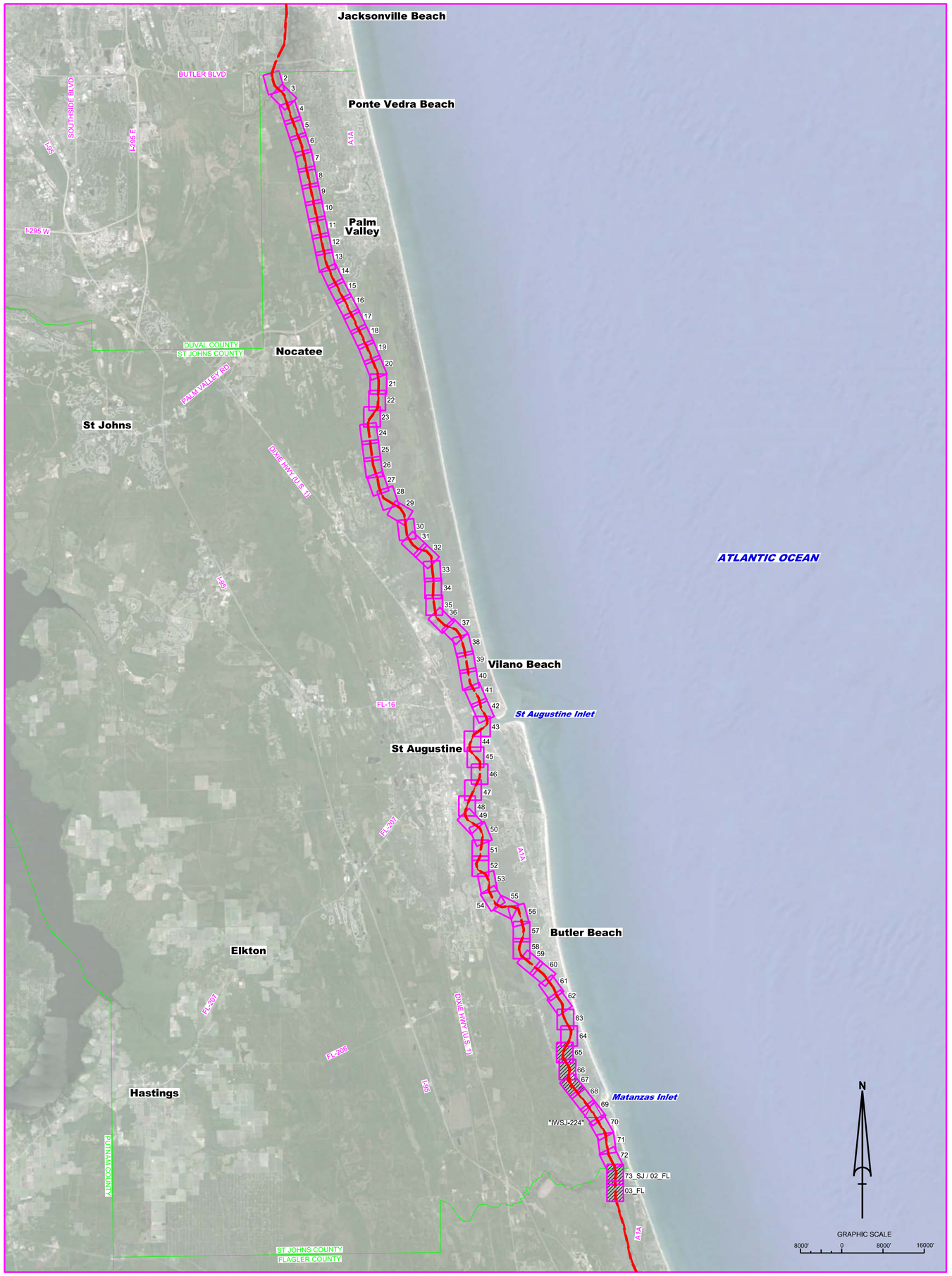
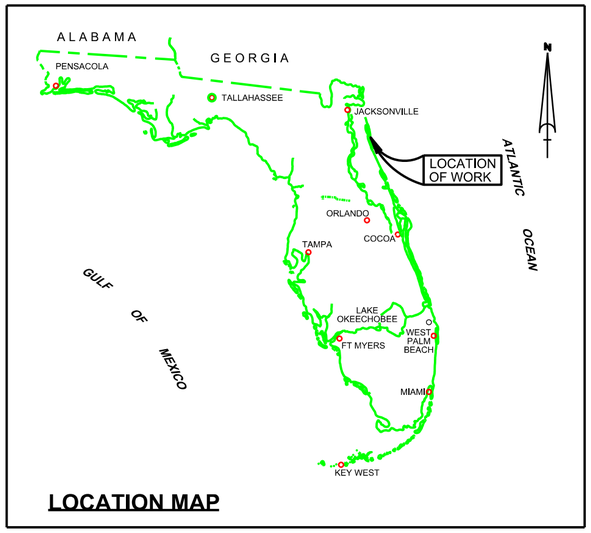




LOCATION MAP

IWW - JACKSONVILLE TO MIAMI
VIC. OF MATANZAS INLET
CUTS SJ-59 THRU SJ-61, F-2
ST JOHNS / FLAGLER COUNTIES, FL
HYDROGRAPHIC EXAM SURVEY FY19
12-FOOT PROJECT

LEGEND	
△	MONUMENT
	LIGHTED BEACON
■	GREEN DAYBEACON
▲	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
8	PROJECT DEPTH

SURVEY NOTES

1. REFER TO SURVEY NO. 19-006.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER-01FEB2011.KTD".
4. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   REFERENCE BASE LOCATED AT "IWSJ-224" (PID: BBCD52)
8. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW. TIDAL EPOCH 1983-2001 AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S VDATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION "872 0686 TIDAL 1" USED FOR ALL CUTS. (PID: AQ1557)

   VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH205 MULTI-BEAM / SIDESCAN SOUNDER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-48	17-18 OCT 2018	SJ59 - SJ61 AND F-2

9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
10. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME. THIS CHART IS SOLELY FOR THE DISTRIBUTION OF AVAILABLE DEPTHS AT THE TIME OF THE SURVEY.
11. SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 30 NOV 13.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. W912EP-XX-X-XXX
Date: OCT 2018

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
15A20-AA1R2F_SJ.DGN
IWW-C-NGMICCF.DGN
19-006-CABS-BRDR_SJ.DGN
Reference files
19-006-VH-001_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY19
12-FOOT PROJECT

INDEX, LOCATION AND VICINITY

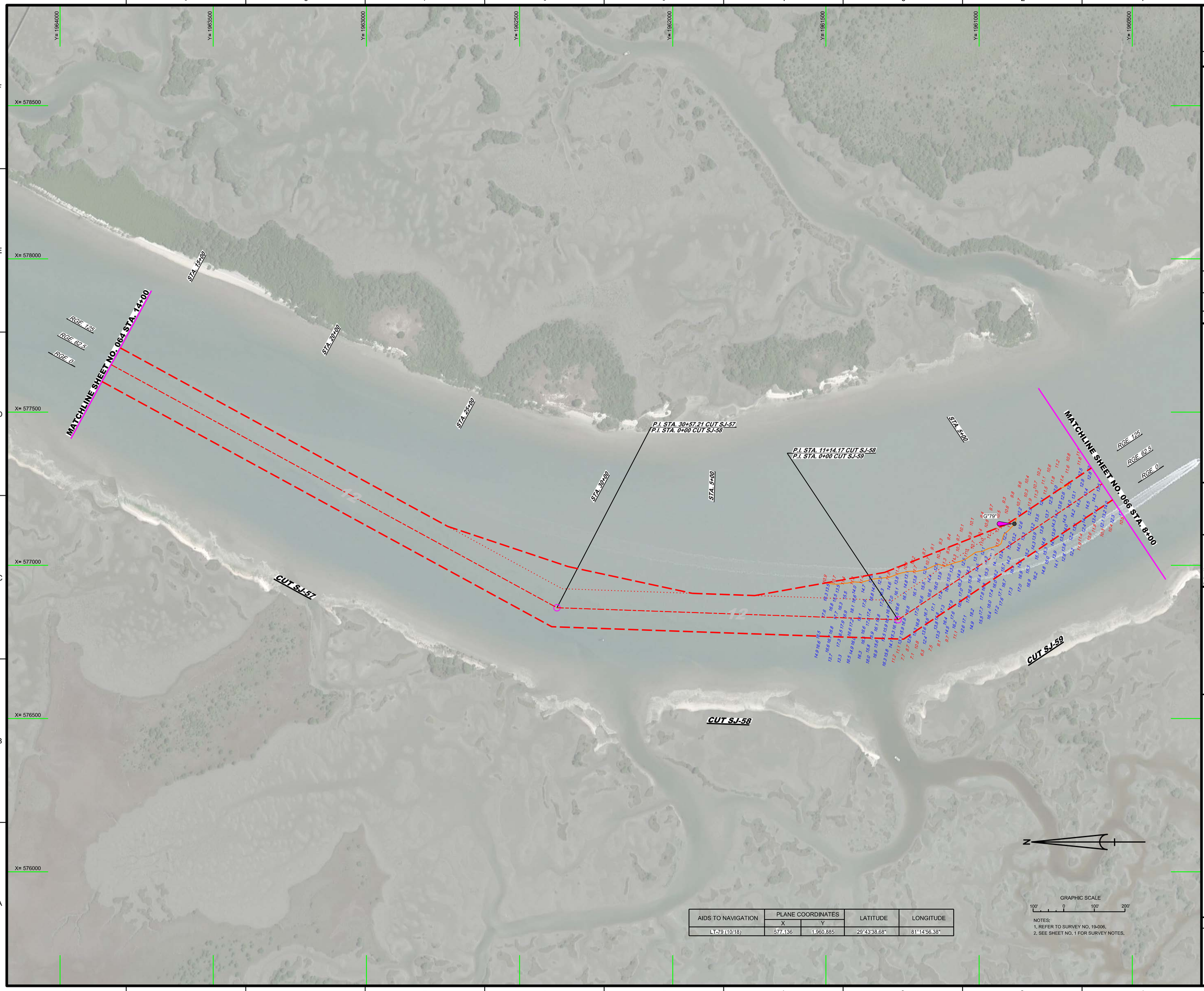
MAP

Scale: AS SHOWN

Drawing no.

1 / 6

SHEET 01 OF 73



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-79 (10/18)	577,136	1,960,885	29°43'38.68"	81°14'56.38"

NOTES:
1. REFER TO SURVEY NO. 19-006.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Proj. No. V913EP-XX-XX-XXXX
Date: OCT 2018

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
19-006A-MAV.DGN
19-006A-SOUNDINGS.DGN
19-006A-SQUN_SJ59.DGN
IWW-C-CNGMCF.DGN
19-006-C-BR-BRDR_SJ.DGN
Reference files
19-006-VR-R65_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY19
12-FOOT PROJECT

STA. 14+00 CUT SJ-57 THRU STA. 8+00 CUT SJ-59

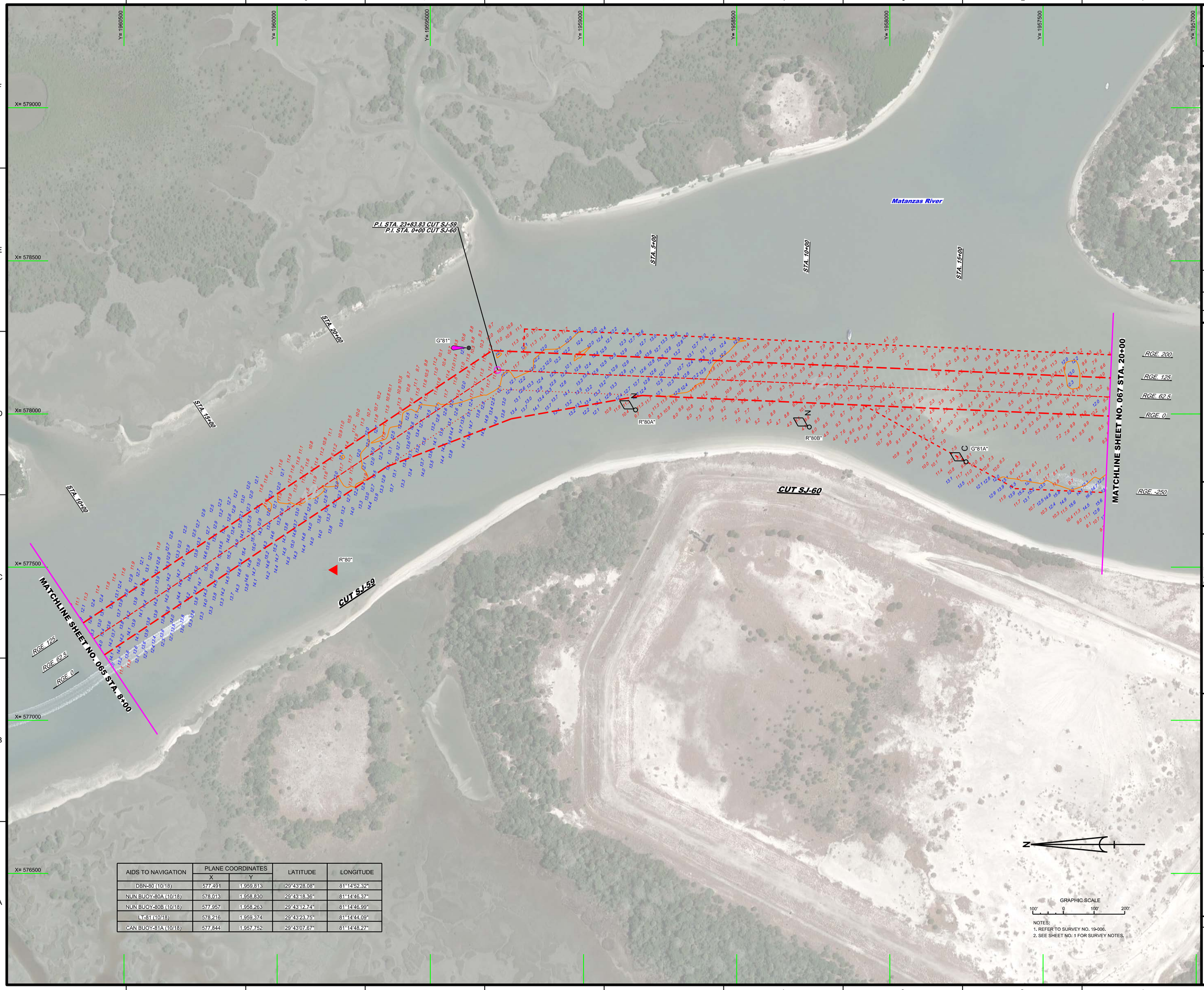
PLAN

Scale: AS SHOWN

Drawing no.

2 / 6

SHEET 65 OF 73



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-80 (10/18)	577,491	1,959,813	29°43'28.08"	81°14'52.32"
NUN BUOY-80A (10/18)	578,013	1,958,830	29°43'18.36"	81°14'46.37"
NUN BUOY-80B (10/18)	577,957	1,958,263	29°43'12.74"	81°14'46.99"
LT-81 (10/18)	578,216	1,959,374	29°43'23.75"	81°14'44.09"
CAN BUOY-81A (10/18)	577,844	1,957,752	29°43'07.67"	81°14'48.27"

NOTES:
1. REFER TO SURVEY NO. 19-006.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Cad by: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No. V9123EP-XX-X-XXXX
Date: OCT 2018

Reference files:
X:\XXXXXXXX-X-XXXXXX.DGN
X:\XXXXXXXX-X-XXXXXX.DGN
19-006-V-NAV.DGN
19-006-V-CONTQ.DGN
19-006-V-SOUN_S-50.DGN
19-006-V-SOUN_S-60.DGN
RWW-CNG/MCCF.DGN
19-006-C-BS-BRDR_SJ.DGN
Reference file:
19-006-V-HORS_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY19
12-FOOT PROJECT

STA. 8+00 CUT SJ-59 THRU STA. 20+00 CUT SJ-60

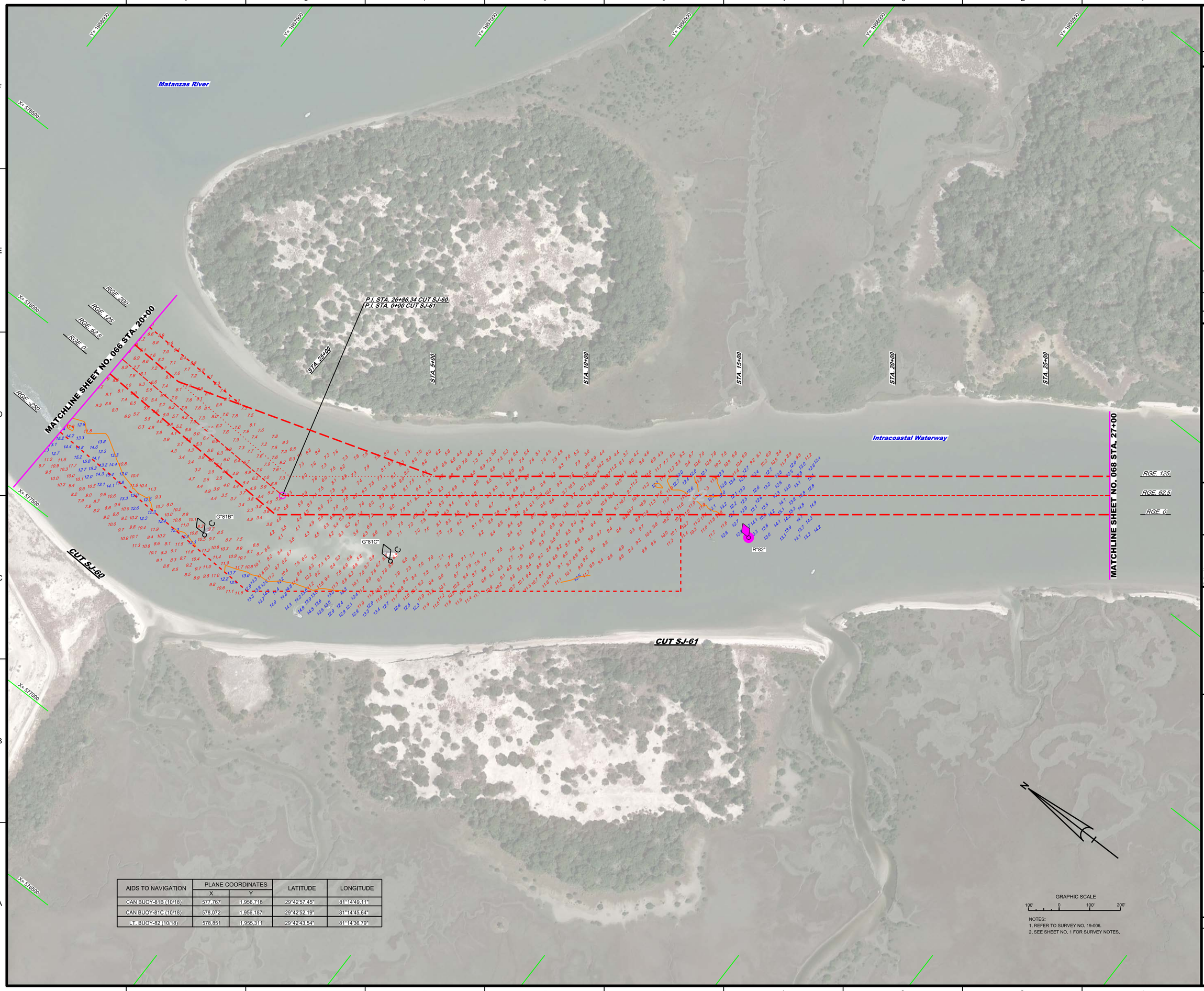
PLAN

Scale: AS SHOWN

Drawing no.

3 / 6

SHEET 66 OF 73



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-81B (10/18)	577,767	1,956,718	29°42'57.45"	81°14'49.11"
CAN BUOY-81C (10/18)	578,072	1,956,187	29°42'52.19"	81°14'45.64"
LT. BUOY-82 (10/18)	578,851	1,955,311	29°42'43.54"	81°14'36.79"

NOTES:
1. REFER TO SURVEY NO. 19-006.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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

Designed by: VIRM
DWN by: VIRM
Chk'd by: CMR
Rev. No. V9123EP-XX-X-XXXX
Date: OCT 2018

Reference files:
17-XXXX-XX-X-XXXX.DGN
XXXXXXXX-X-XXXXXXXX.DGN
19-006-V-NAV.DGN
19-006-V-CONTQ.DGN
19-006-V-SUN_SJ60.DGN
19-006-V-SOUN_SJ61.DGN
IWW-CONGMCCF.DGN
19-006-C-BS-BRDR_SJ.DGN
19-006-V-H-067_SJ.DGN

File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY19
12-FOOT PROJECT

STA. 20+00 CUT SJ-60 THRU STA. 27+00 CUT SJ-61

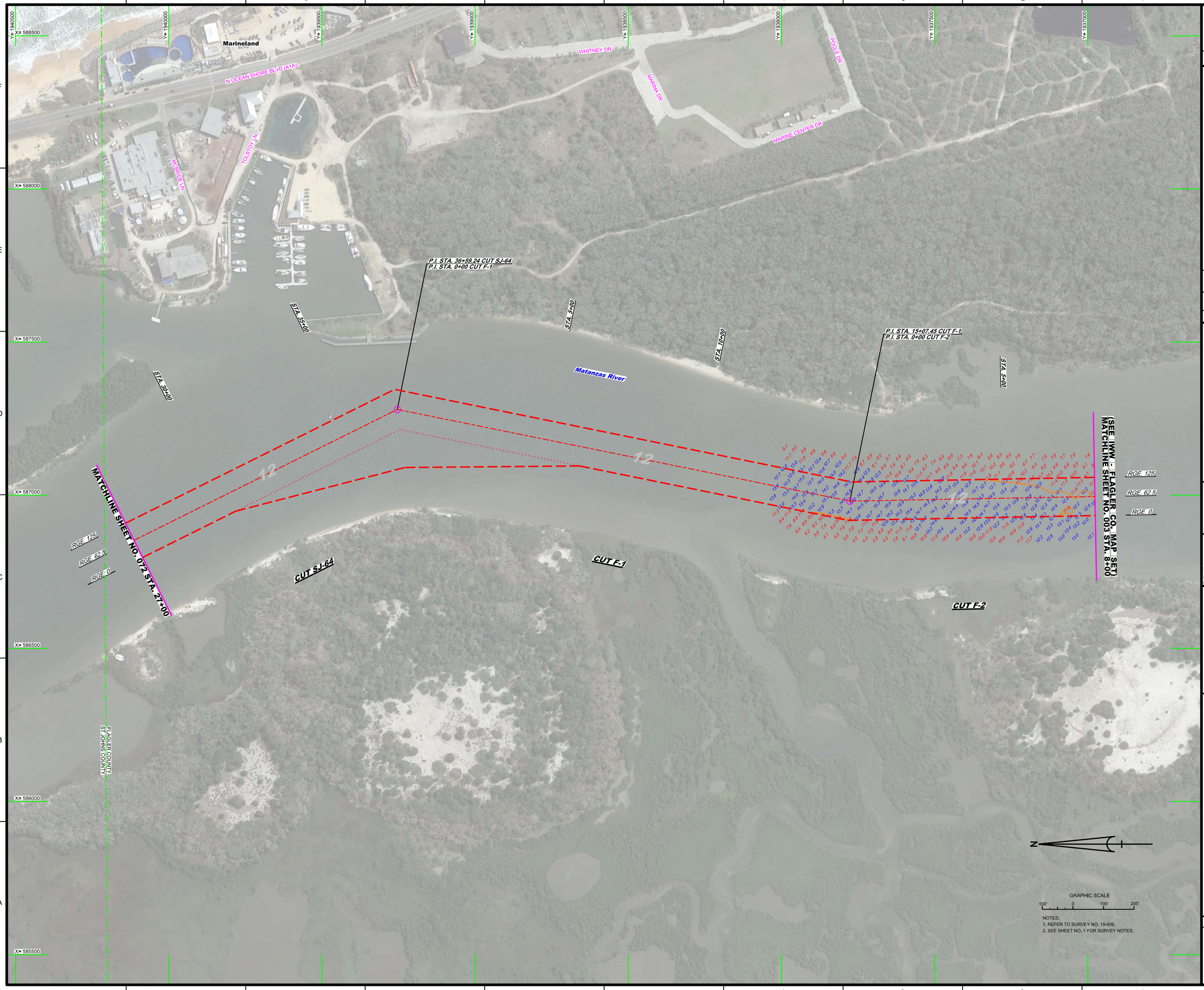
PLAN

Scale: AS SHOWN

Drawing no.

4 / 6

SHEET 67 OF 73



NOTES:
1. REFER TO SURVEY NO. 19-006.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Proj. No. V912EP-XX-XX-XXXX
Date: OCT 2018

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
19-006-A-SOUN_F1.DGN
19-006-A-SOUN_F2.DGN
IWW-C-CNGMCF.DGN
19-006-C-BR-BRDR_SJ.DGN
Reference files
19-006-VH-073_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY19
12-FOOT PROJECT

STA. 27+00 CUT SJ-64 THRU STA. 8+00 CUT F-2

PLAN

Scale: AS SHOWN

Drawing no.

5 / 6

SHEET 73 OF 73

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-92 (10/18)	586,930	1,935,895	29°39'31.49"	81°13'04.75"
LT-94 (10/18)	586,963	1,934,015	29°39'12.88"	81°13'04.34"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 19-006.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. W912EP-XX-X-XXXX
Date: OCT 2019

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
19-006-A-NAV.DGN
19-006-A-CONTROL.DGN
19-006-A-SOUN_F2.DGN
IWW-C-NGMCCF.DGN
19-006-C-BSB-BRDR_FL.DGN
Reference files:
19-006-VH-005_FL.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
FLAGLER COUNTY

HYDROGRAPHIC EXAM SURVEY FY19
12-FOOT PROJECT

STA. 8+00 CUT F-2 THRU STA. 4+00 CUT F-3

PLAN

Scale: AS SHOWN

Drawing no.

6 / 6

SHEET 03 OF 31