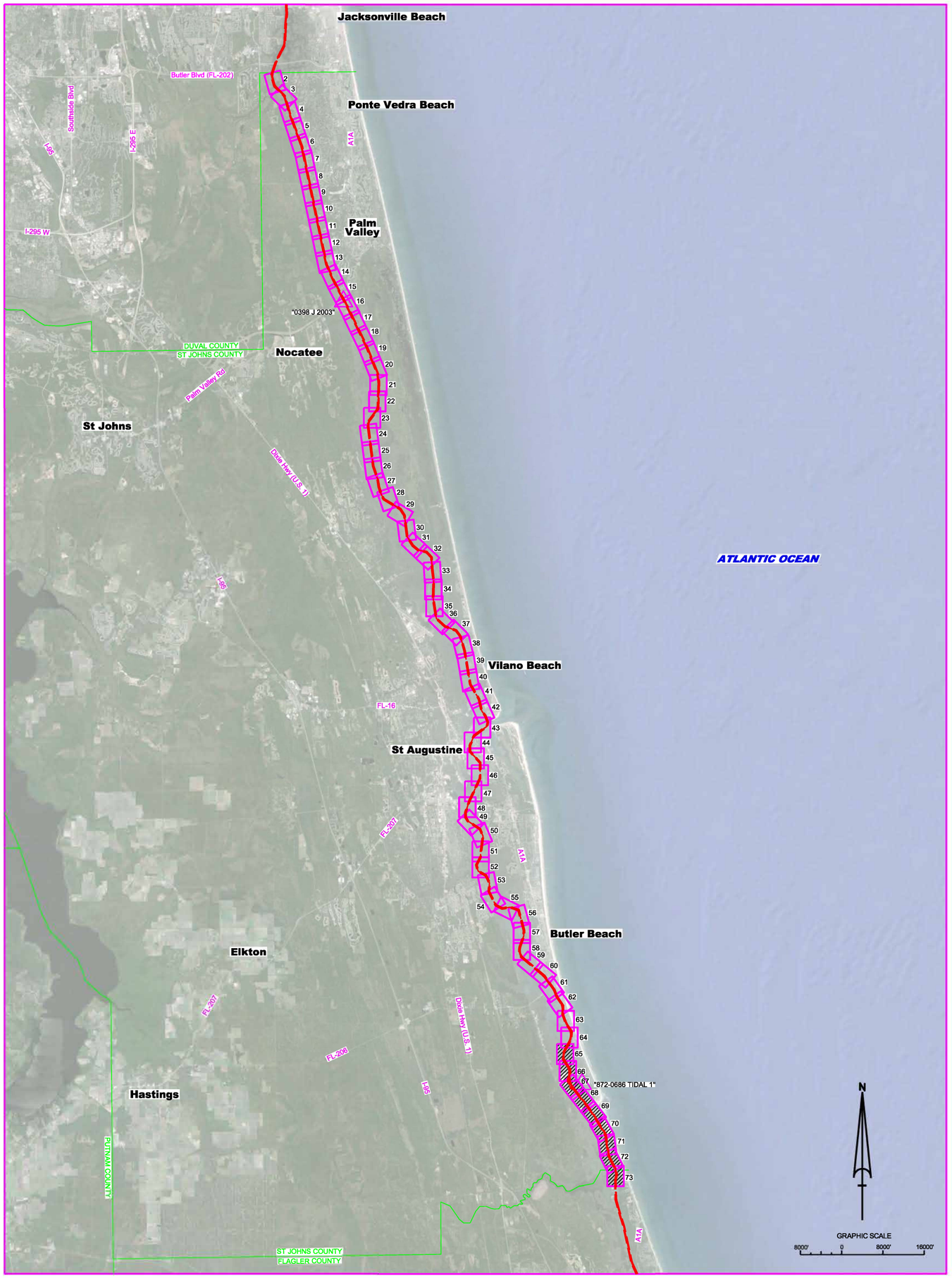


IWW - JACKSONVILLE TO MIAMI
CUTS SJ-58 THRU SJ-64
ST JOHNS COUNTY, FL
HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 23-100.
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: "CANDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER_20191202.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 BENCHMARK ASSOCIATED WITH THE TIDE GAGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION "872-0686 TIDAL 1" FOR CUTS SJ-59 THRU SJ-61 (PID: AQ1557)
9. VERTICAL MEASUREMENTS WERE MADE USING A NORBIT WINGHEAD i77h OPERATING AT 400 KHZ AND A PING DSP OPERATING AT 450 KHZ. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
WING BOAT	07-08 FEB 2023	CUTS SJ-59 STA 12+00 THRU SJ-61 STA 21+00
SB WELLS	06 MAR 2023	CUTS SJ-58 THRU F-3

10. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
11. 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.
12. 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 2013.

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

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: GMB
Inv. No. W912EP-XX-X-XXXX
Dsnsc: MAR 2023

XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-X-XXXXX.DGN
XXXXXXXX-X-XXXXX.DGN
23-100-VI-NDCE_SJ.DGN
IWW-C-NGMCCF.DGN
23-100-IS-BS-BRDR_SJ.DGN
Reference files:

23-100-VH-001_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

INDEX, LOCATION AND VICINITY

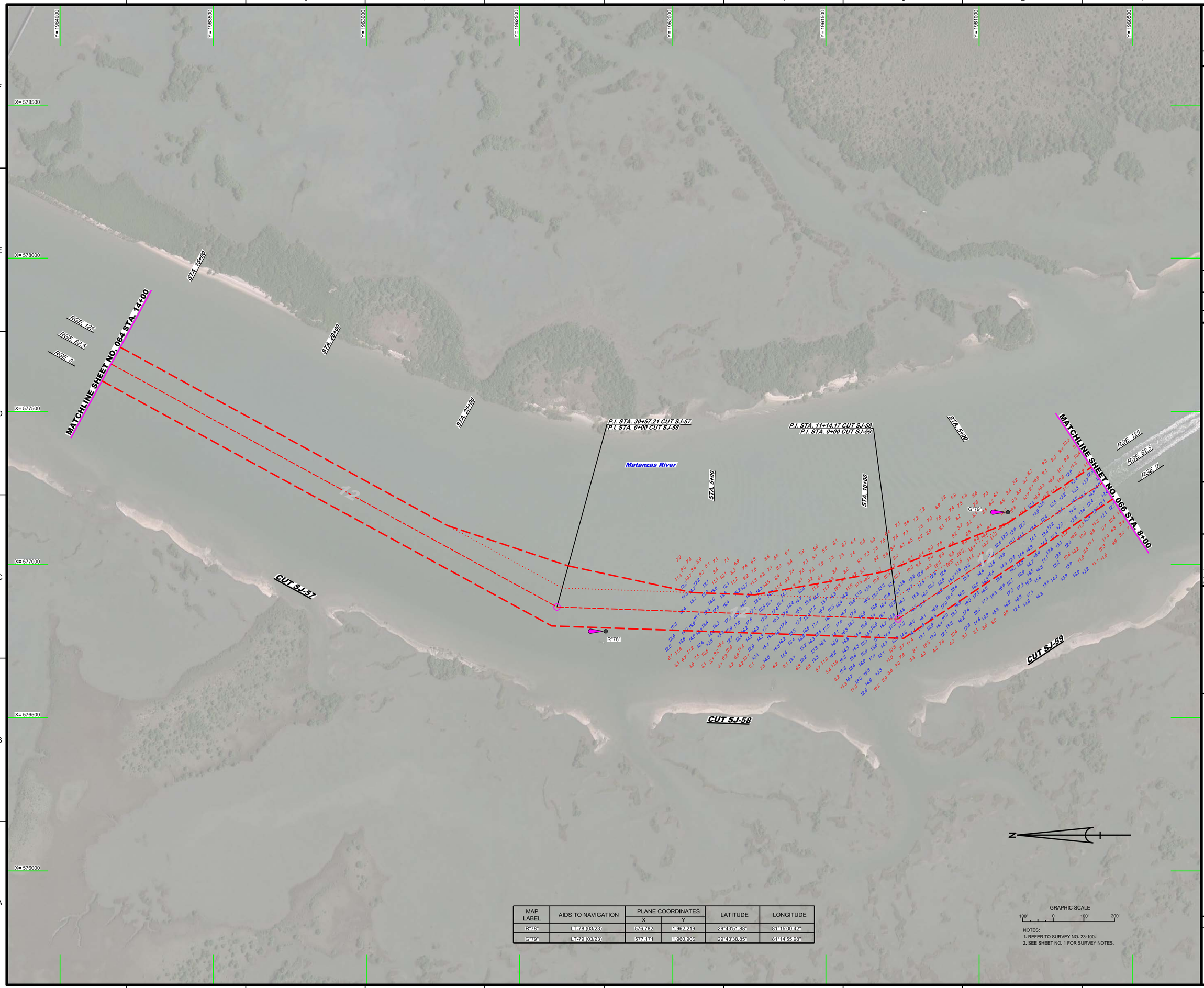
MAP

Scale: AS SHOWN

Drawing no.

1 / 10

SHEET 01 OF 73



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"78"	LT-78 (03/23)	576,782	1,962,219	29°43'51.88"	81°15'00.42"
G"79"	LT-79 (03/23)	577,171	1,960,906	29°43'38.85"	81°14'55.98"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-100.
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

Drawn by: CMR
Designed by: VIRM
DWN by: VIRM
Rev. No.: V9123EP-XX-X-XXXX
Date: MAR 2023

XXXXXXXX-X-XXXXXX.DGN
23-100-V-SOUND_XXXX.DGN
23-100-V-SOUN_S_SB4-FL.DGN
NWV-CAN-GMCCF.DGN
23-100-C-FS-BRDR_SJ.DGN
Reference files:
23-100-VH-065_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

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

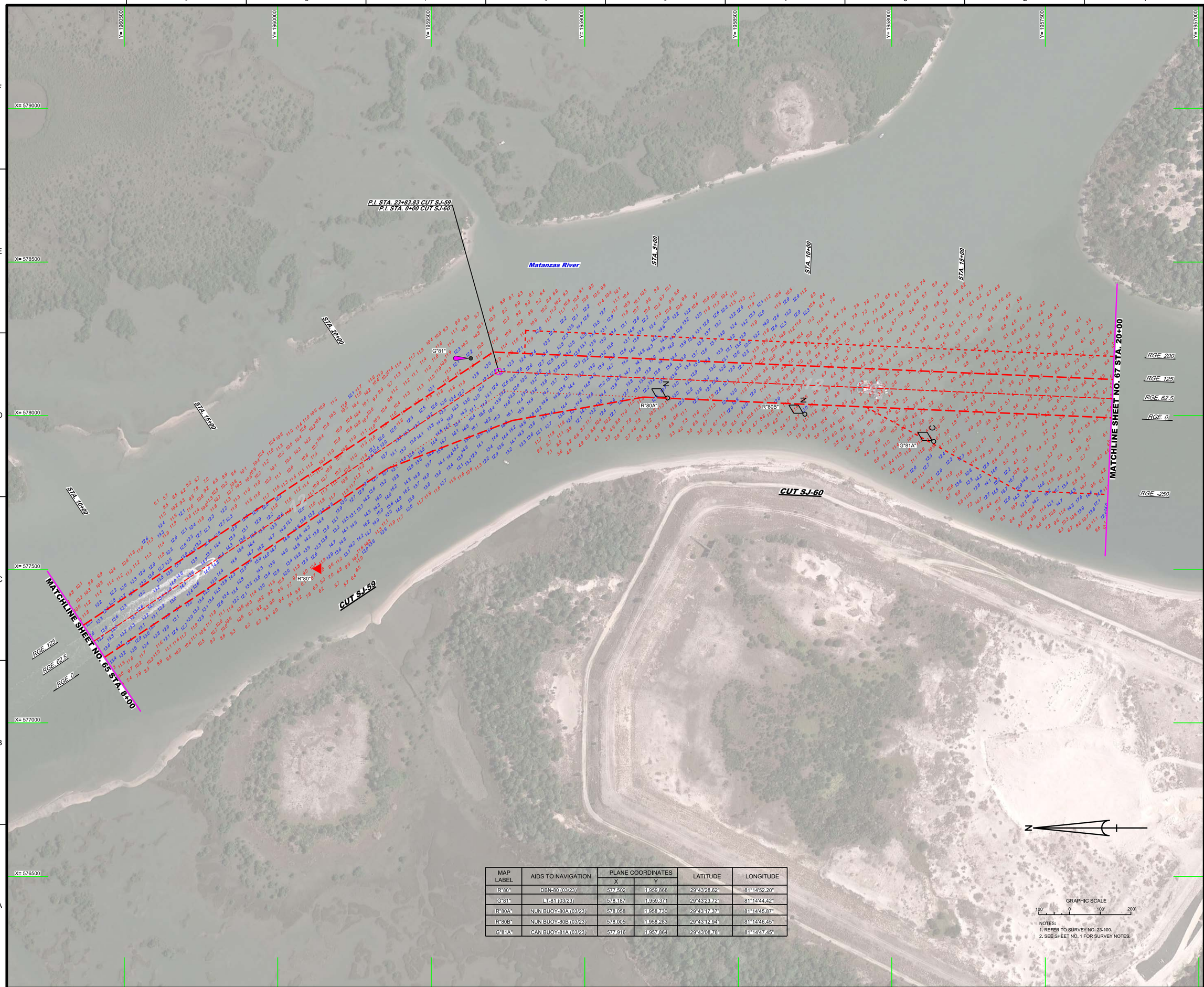
PLAN

Scale: AS SHOWN

Drawing no.

2 / 10

SHEET 65 OF 73



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"80"	DBN-80 (03/23)	577,502	1,959,868	29°43'28.62"	81°14'52.20"
G"81"	LT-81 (03/23)	578,187	1,959,371	29°43'23.72"	81°14'44.42"
R"80A"	NUN BUOY-80A (03/23)	578,058	1,958,730	29°43'17.37"	81°14'45.87"
R"80B"	NUN BUOY-80B (03/23)	578,005	1,958,283	29°43'12.94"	81°14'46.45"
G"81A"	CAN BUOY-81A (03/23)	577,916	1,957,864	29°43'08.78"	81°14'47.45"

NOTES:
1. REFER TO SURVEY NO. 23-100.
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: VIRM
DWN by: VIRM
Cad by: CMR
Rev. No.: V9123EP-XX-X-XXXX
Date: MAR 2023

XXXXXXXXX-XXXXXX.DGN
23-100-V-SOUN_SJ59-60.DGN
23-100-V-SOUN_SJ59-FI.DGN
NWV-CANGMCCF.DGN
23-100-C-FS-SHDR_SJ.DGN
Reference files:
23-100-VHD65_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

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

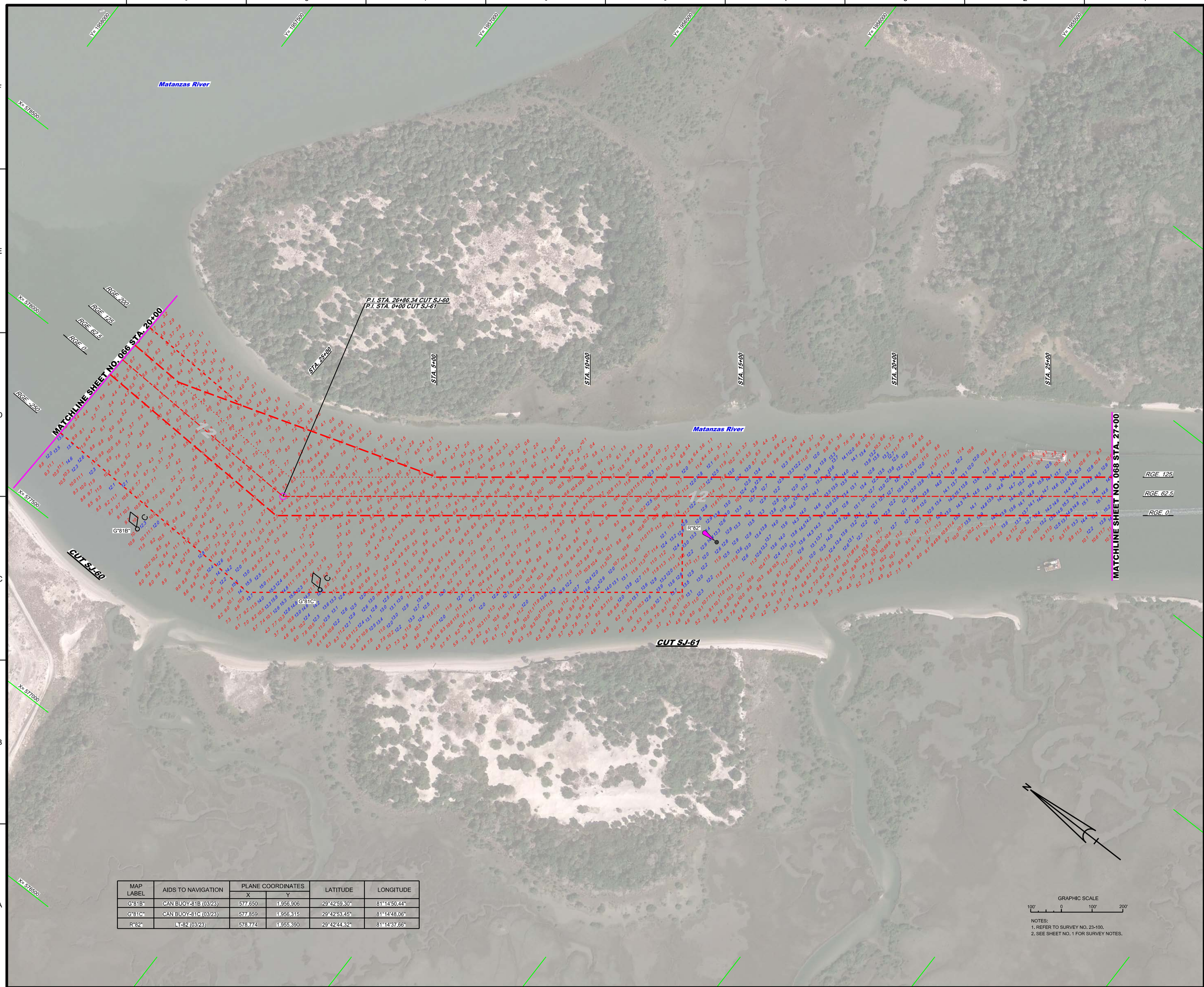
PLAN

Scale: AS SHOWN

Drawing no.

3 / 10

SHEET 66 OF 73



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"81B"	CAN BUOY-81B (03/23)	577,650	1,956,906	29°42'59.30"	81°14'50.44"
G"81C"	CAN BUOY-81C (03/23)	577,859	1,956,315	29°42'53.45"	81°14'48.06"
R"82"	LT-82 (03/23)	578,774	1,955,390	29°42'44.32"	81°14'37.66"

NOTES:
1. REFER TO SURVEY NO. 23-100.
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

Chief by: CMR
Designed by: VRM
DWN by: VRM
Rev. No. V912EP-XX-X-XXXX
Date: MAR 2023

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
23-100-H-SOUN_SJ-SHFL.DGN
RWK-C-NGI-MCCF.DGN
23-100-C-BS-BRDR_SJ.DGN
Reference files:
23-100-VH-067_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

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

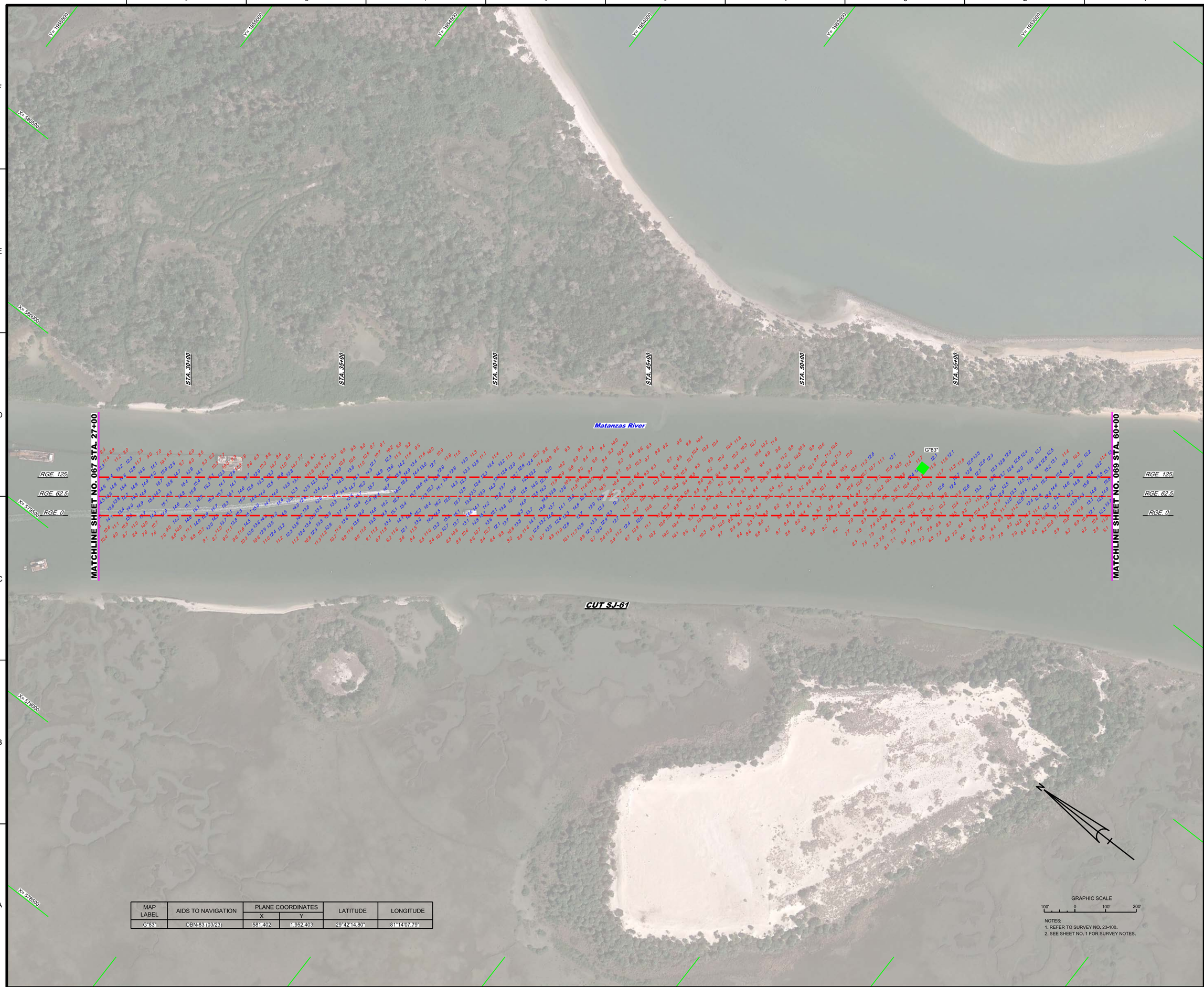
PLAN

Scale: AS SHOWN

Drawing no.

4 / 10

SHEET 67 OF 73



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"83"	DBN-83 (03/23)	581,402	1,952,403	29°42'14.80"	81°14'07.79"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-100.
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-XXX-XXXXX
Date: MAR 2023

XXXXXXXX-XX-XXXXXL.DGN
XXXXXXXX-XX-XXXXXL.DGN
23-100-XXXXXL.DGN
23-100-VSUN_SJ-SHFULDGN
RWW-C-NGWCCF.DGN
23-100-C-ESHBRDR_SJ.DGN
Reference files:
23-100-VHD86_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

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

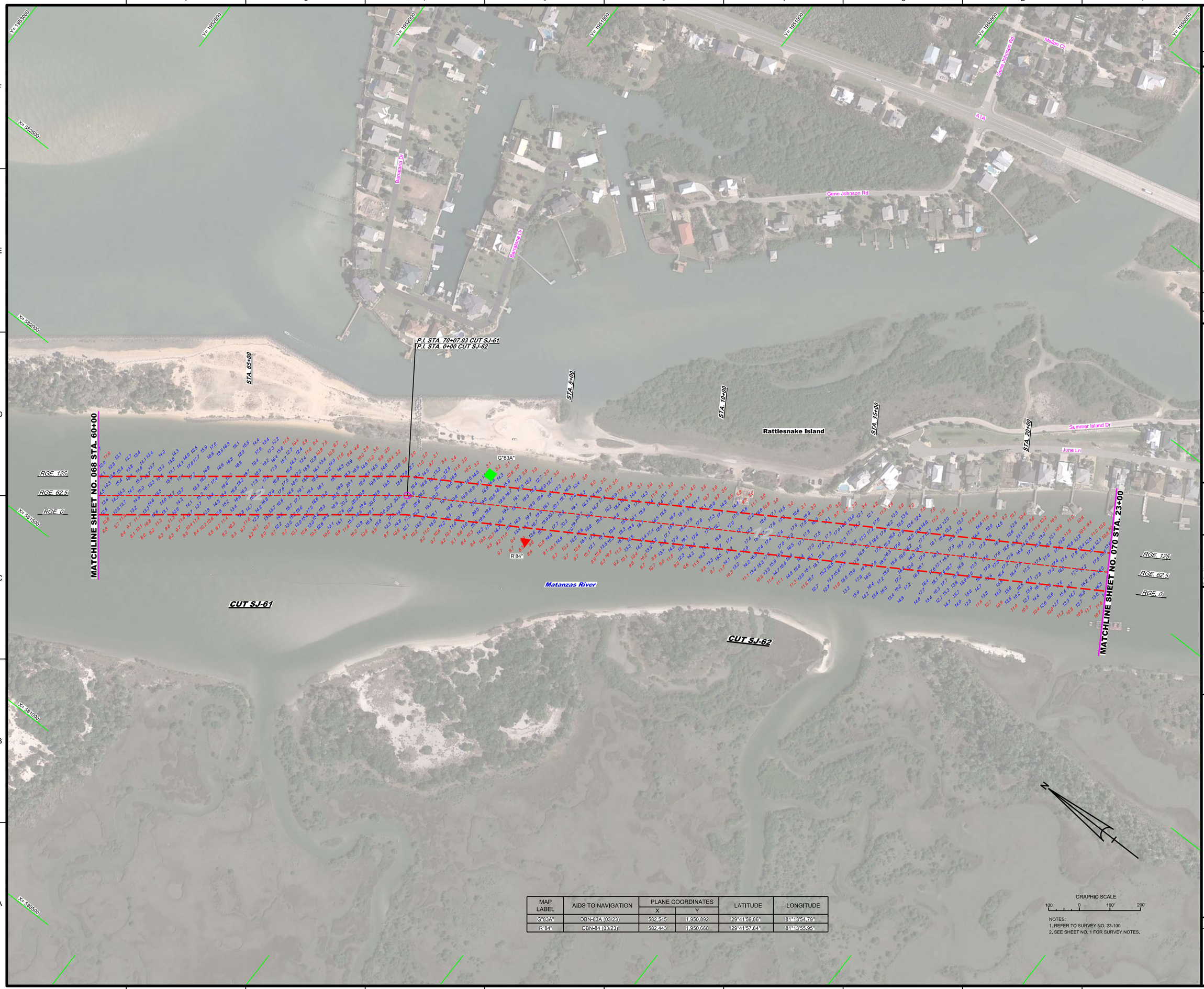
PLAN

Scale: AS SHOWN

Drawing no.

5 / 10

SHEET 68 OF 73



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"83A"	DBN-83A (03/23)	582,545	1,950,892	29°41'59.86"	81°13'54.79"
R"84"	DBN-84 (03/23)	582,443	1,950,668	29°41'57.64"	81°13'55.95"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-100.
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: MRM
DWN by: MRM
Ckd by: GMR
Proj. No. V01ZEP-XX-XX-XXXX
Date: MAR 2023

XXXXXXX-XX-XXXXXX.DGN
XXXXXXX-XX-XXXXXX.DGN
XXXXXXX-XX-XXXXXX.DGN
23-100-A-SDUN_SJ58-FL.DGN
IWW-C-CNGMCF.DGN
23-100-C-BR-BRDR_SJ.DGN
Reference files:
23-100-VHD69_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

STA. 60+00 CUT SJ-61 THRU STA. 23+00 CUT SJ-62

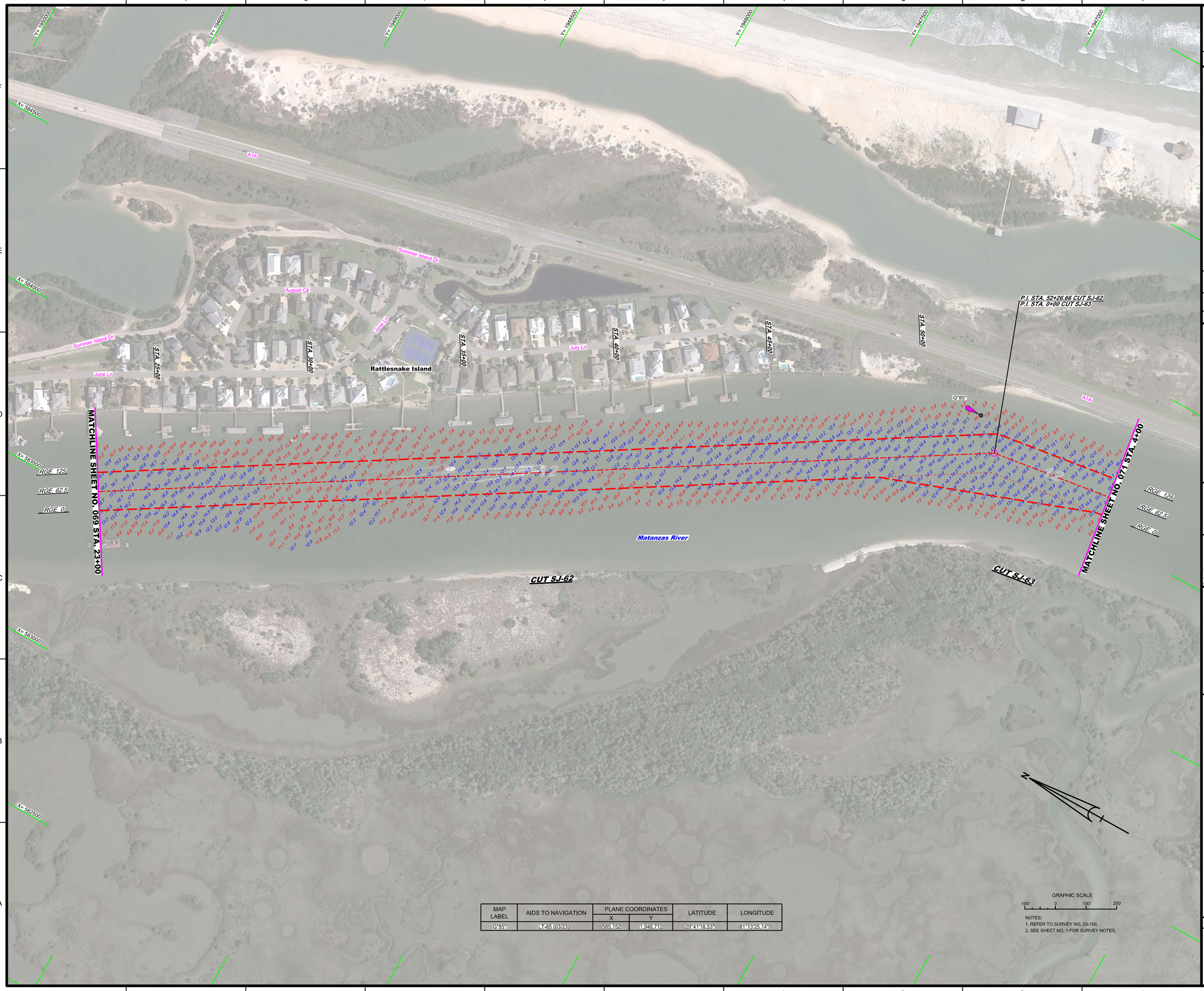
PLAN

Scale: AS SHOWN

Drawing no.

6 / 10

SHEET 69 OF 73



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"85"	LT-85 (03/23)	585,152	1,946,712	29°41'18.53"	81°13'25.14"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-100.
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: MRM
DWN by: MRM
Ckd by: GMR
Fin. No. W912EP-XX-X-XXXX
Dated: MAR 2023

XXXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
23-100-XXXXXXXXXXXX
23-100-A-SOJA_SJ59-F3.DGN
IWW-C-NGMCCF.DGN
23-100-C-BR-BRDR_SJ.DGN
Reference files
23-100-VH-A070_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

STA. 23+00 CUT SJ-62 THRU STA. 4+00 CUT SJ-63

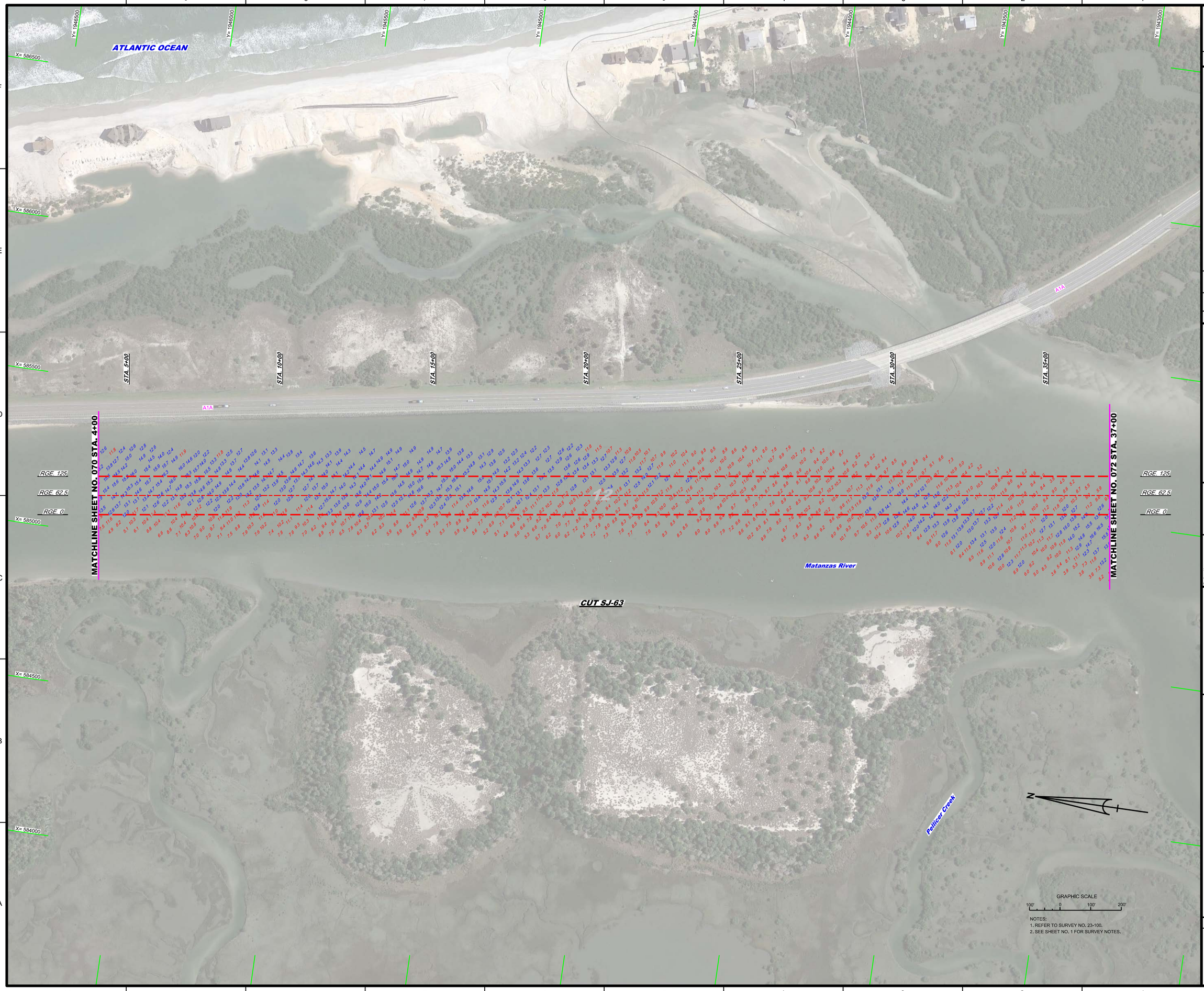
PLAN

Scale: AS SHOWN

Drawing no.

7 / 10

SHEET 70 OF 73



NOTES:
1. REFER TO SURVEY NO. 23-100.
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: VIRM
DWN by: VIRM
Ckd by: GMR
Rev. No. V9125EP-XXX-XXXXX
Date: MAR 2023

XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
23-100-A-SDUM_S-SHEET.DGN
RWK-C-NGMCCF.DGN
23-100-C-ESI-BRDR_SJ.DGN
Reference files:
23-100-VH071_SJ.DGN
File name:

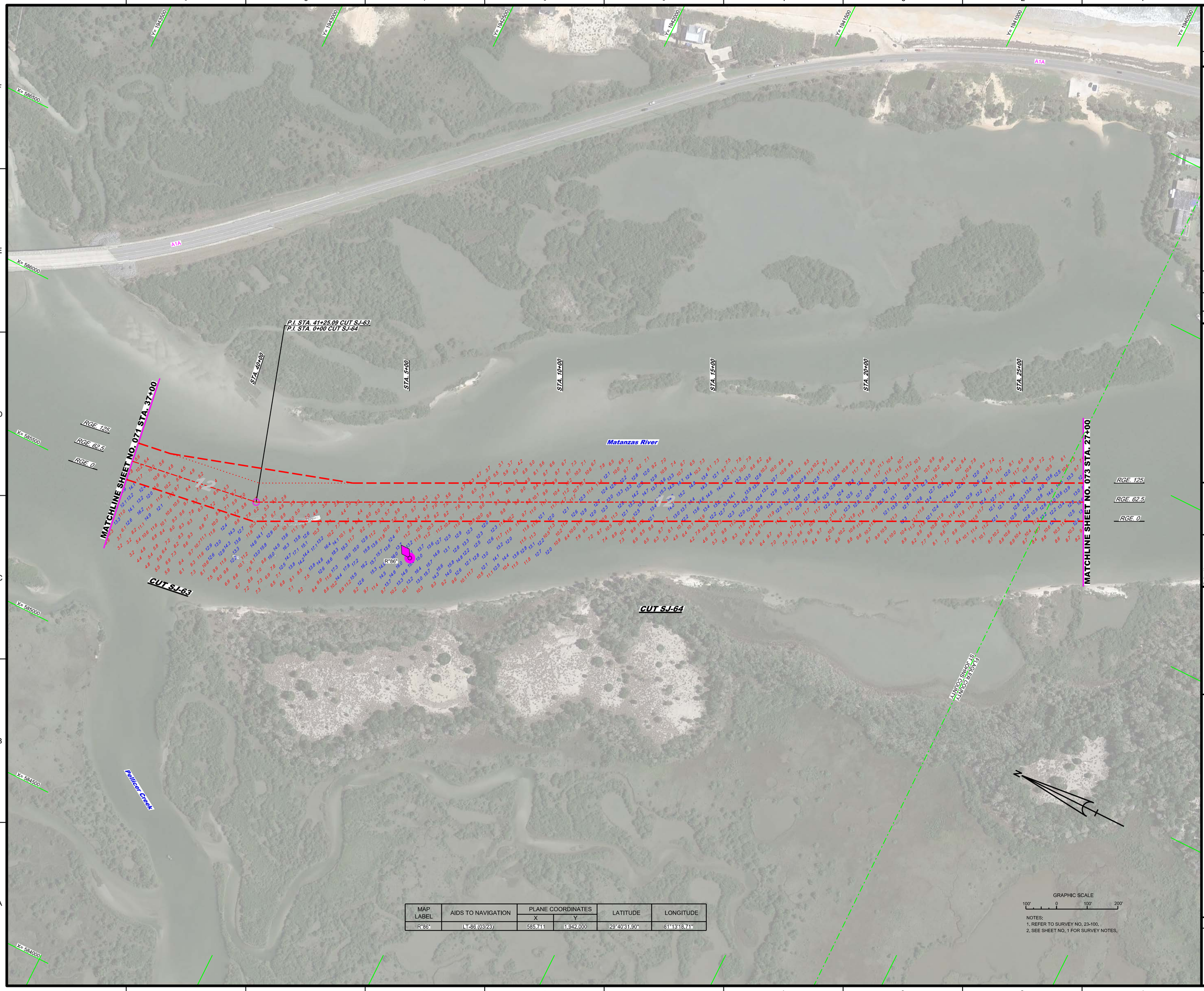
INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT
STA. 4+00 THRU STA. 37+00 CUT SJ-63
PLAN

Scale: AS SHOWN

Drawing no.
8 / 10

SHEET 71 OF 73



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"86"	LT-86 (03/23)	585,711	1,942,000	29°40'31.90"	81°13'18.71"

NOTES:
1. REFER TO SURVEY NO. 23-100.
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: VIRM
DWN by: VIRM
Chd by: CMR
Rev. No. W912EP-XX-X-XXXX
Date: MAR 2023

XX-XX-XX-XX-XX-XX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
23-100-HNAV.DGN
23-100-HSOUN_SJ-BHF3.DGN
WWC-CNGWCCP.DGN
23-100-HSB-BRDR_SJ.DGN
Reference files:
23-100-VHD72_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

STA. 37+00 CUT SJ-63 THRU STA. 27+00 CUT SJ-64

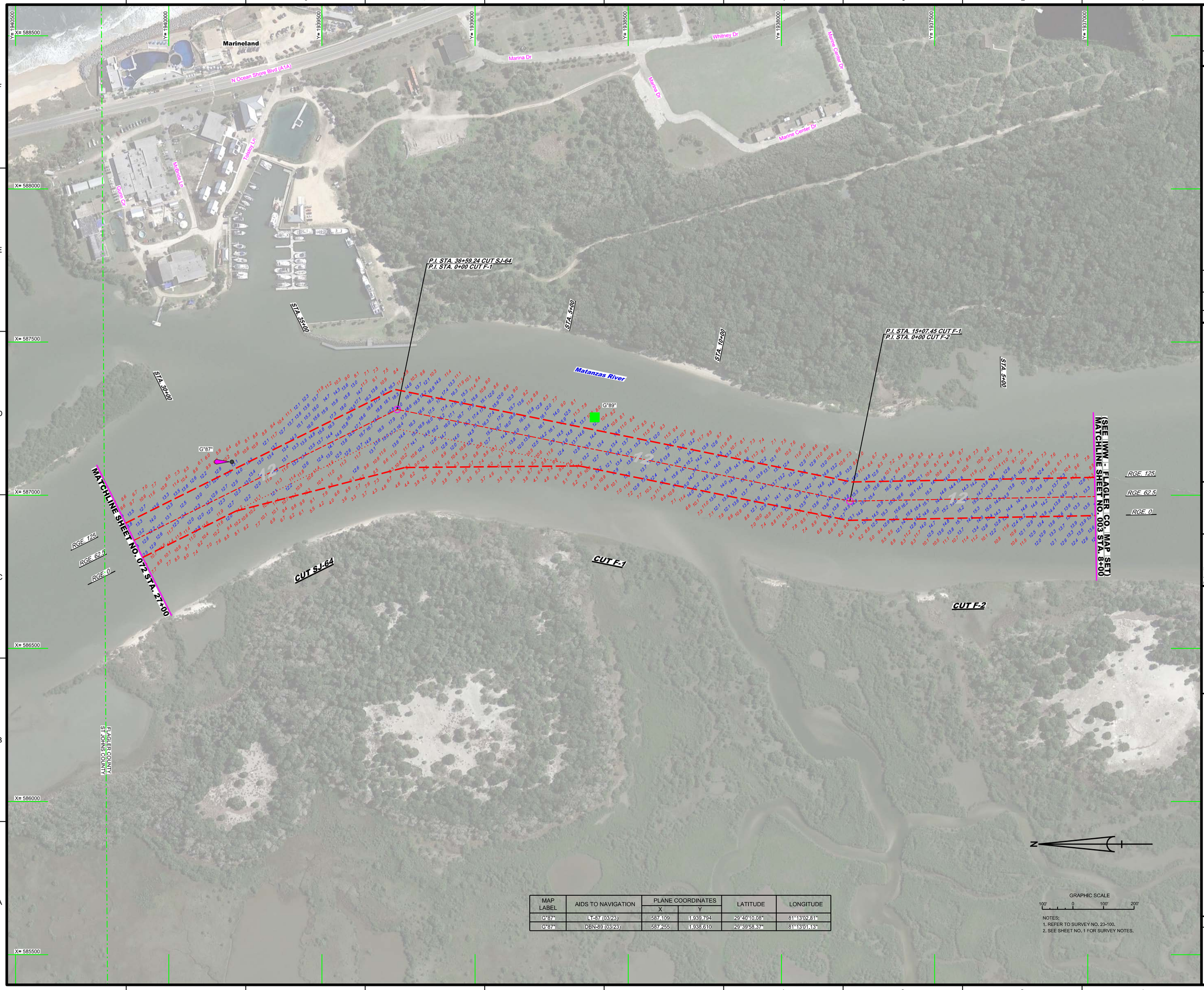
PLAN

Scale: AS SHOWN

Drawing no.

9 / 10

SHEET 72 OF 73



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"87"	LT-87 (03/23)	587,109	1,939,794	29°40'10.08"	81°13'02.81"
G"87"	DBN-89 (03/23)	587,255	1,938,610	29°39'58.37"	81°13'01.13"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-100.
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: MRM
DWN by: MRM
Ckd by: GMR
Proj. No.: V912EP-XX-XX-XXXX
Date: MAR 2023

XXXXXXXXX-XXXXXXXX.DGN
23-100-XX-SQUN_SJSR-DGN
23-100-XX-SQUN_SJSR-FLDGN
IWW-CONGMOF.DGN
23-100-XX-BR-BRDR_SJ.DGN
Reference files:
23-100-VH-073_SJ.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
ST. JOHNS COUNTY

HYDROGRAPHIC EXAM SURVEY FY23
12-FOOT PROJECT

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

PLAN

Scale: AS SHOWN

Drawing no.

10 / 10

SHEET 73 OF 73