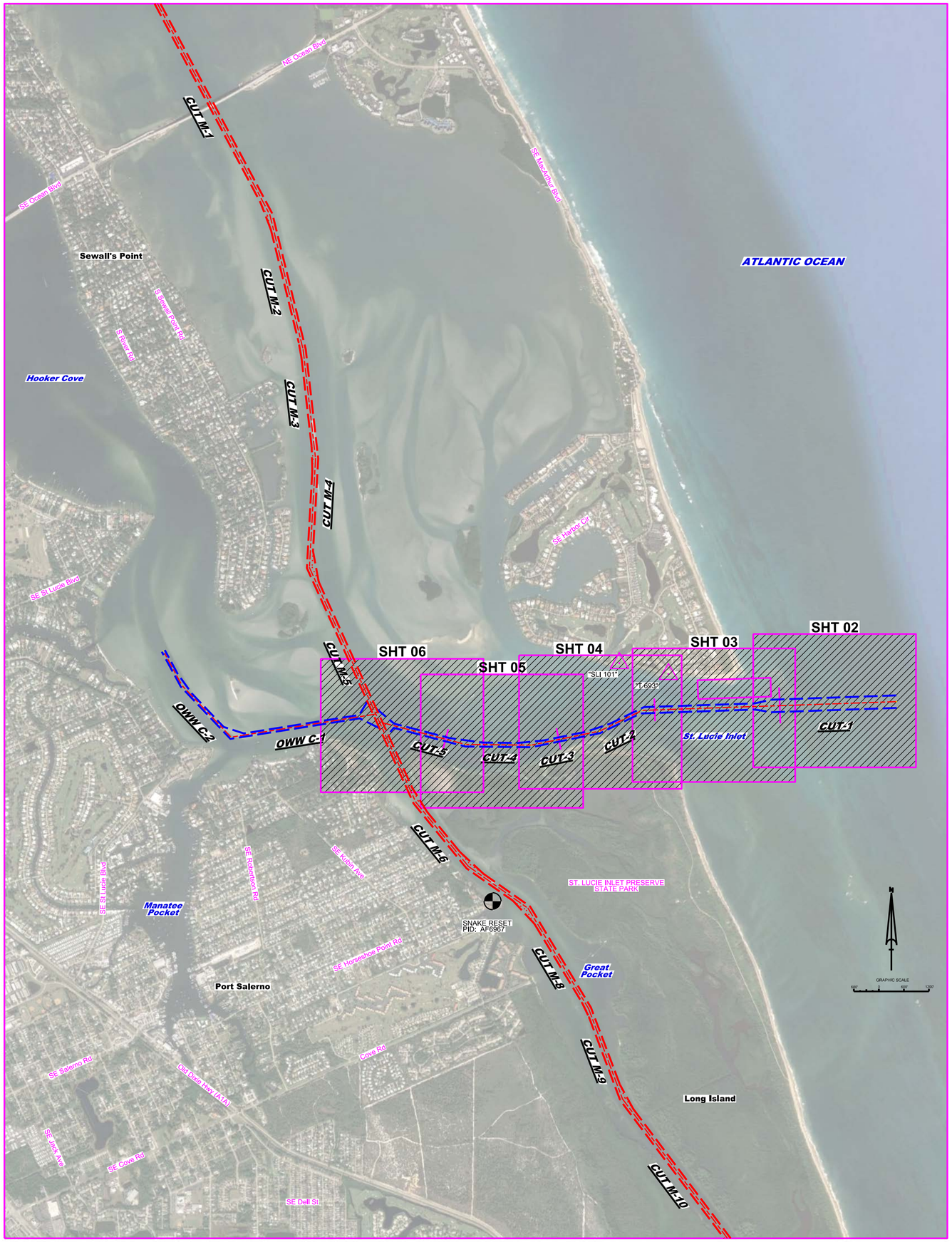
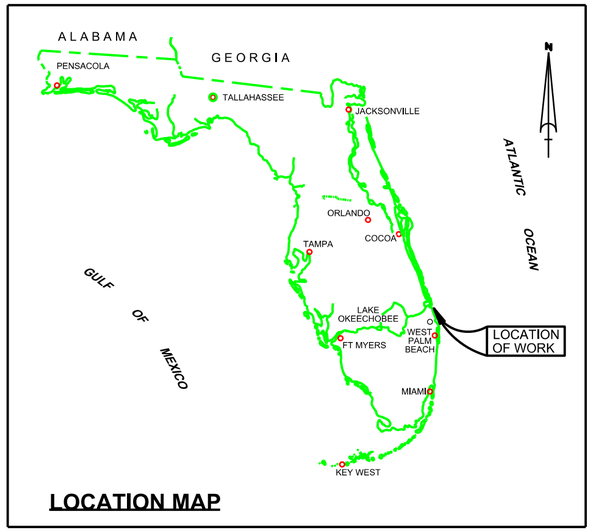




ST. LUCIE INLET
MARTIN COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY23
7, 10 & 16-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 23-215.
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 KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "INDIANRIVER-STLUCIE-MARTIN-20140527.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 THE CURRENT REALIZATION OF TEH NORTH AMERICAN DATUM OF 1983 (NAD83), BASED ON THE NOAA NATIONAL SPATIAL REFERENCE SYSTEM (NSRS).
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 "T 693" (PID: BBFH83)
8. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). A MODIFIED VERSION OF NOAA'S VDATUM MODEL WAS USED TO CALIBRATE TO THE PUBLISHED MLLW HEIGHTS OF THE BENCH MARK BELOW:

   NOAA TIDAL STATION 872-2381 FOR ALL CUTS (PID: AF6967)

   VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 6205 COMBINED MULTI-BEAM AND SIDESCAN AND A TELEDYNE ODOM ECHOTRAC E20 DUAL-FREQUENCY 28/200 KHZ SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY. TOPO ELEVATIONS WERE COLLECTED DURING SURVEY 23-212 (IWW-MARTIN COUNTY_XROADS).

   TOPO MEASUREMENTS WERE MADE USING A TRIMBLE R10 RECEIVER.

VESSEL	DATE OF SURVEY	CUT
TOPO	20 JUL 2023	IMPOUNDMENT BASIN
SB-48	06 SEP 2023	CUTS 2 THRU 5
SB-48	07 SEP 2023	CUT-1, IMPOUNDMENT BASIN

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 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: VRM
Drawn by: VRM
Chk by: GMR
Proj. No.: W912EP-XX-X-XXXX
Date: SEP 2023

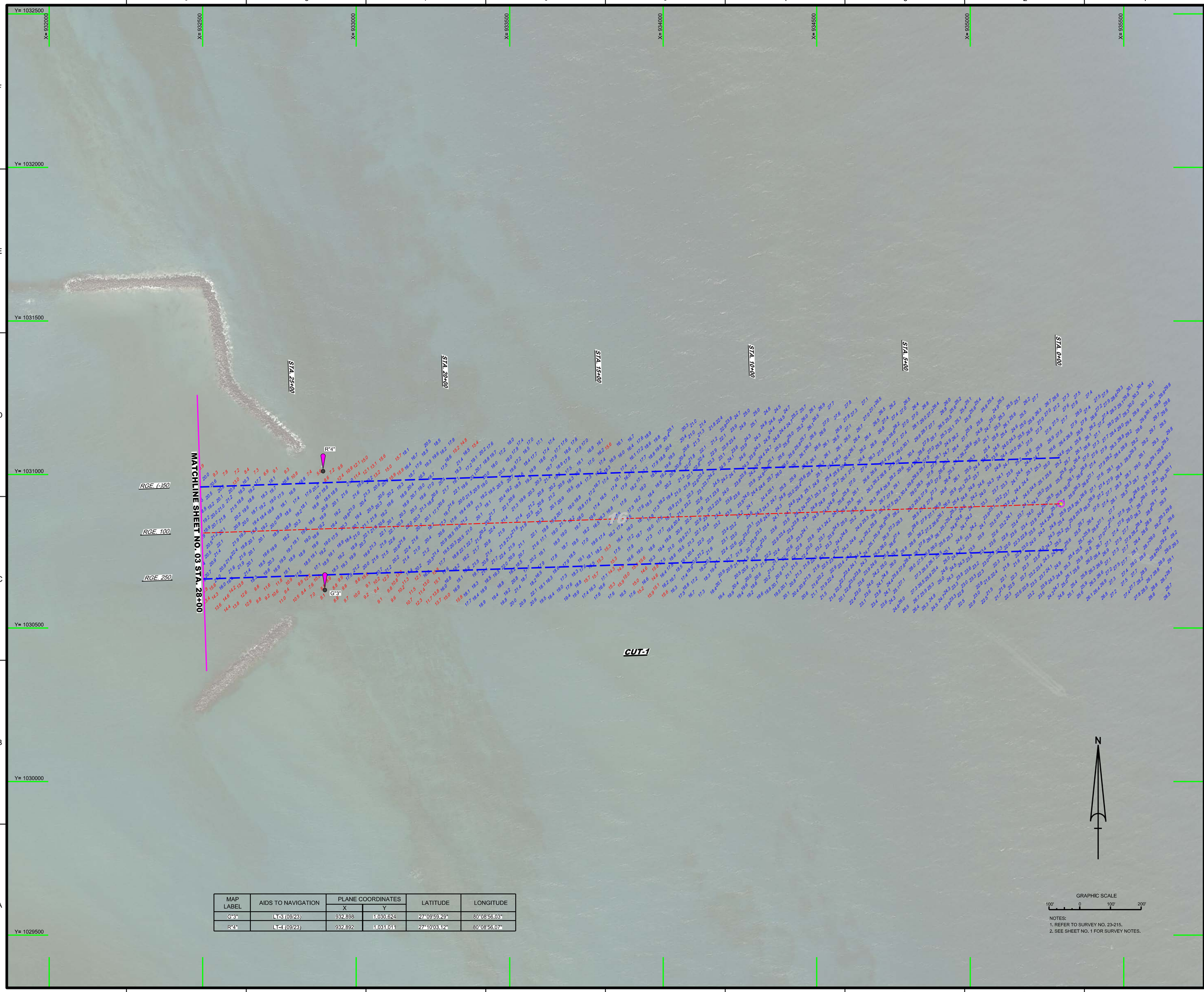
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
IWW-CADSICCF.DGN
SLI AND OWW(CUTS 1-5)_3D-MICCF.DGN
23-215-CABS-RBGR.DGN
Reference files:
23-215-VH-SR01.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY23
7, 10 & 16-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 06



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT-3 (09/23)	932,898	1,030,624	27°09'59.29"	80°08'56.03"
R"4"	LT-4 (09/23)	932,892	1,031,011	27°10'03.12"	80°08'56.07"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-215.
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
Drawn by: VIRM
Checked by: CMR
Rev. No.: V01FSFP-XXX-XXXX
Date: SEP 2023

XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXXXX-XXXXXXX.DGN
23-215-XXXXXXXXXX
23-215-VS-SOUN_ALCUTS.DGN
SLI AND OWW(CUTS 1-5)_3D-MCCF.DGN
23-215-CeBS-BRDR.DGN
Reference files:
23-215-VH-SHOZ.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
7, 10 & 16-FOOT PROJECT

STA. 0+00 THRU STA. 28+00 CUT-1

PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 06

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"6"	NUN BUOY-6 (09/23)	931,404	1,031,004	27°10'03.15"	80°09'12.55"

NOTES:
1. REFER TO SURVEY NO. 23-215.
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: GMR
Designed by: WRM
DWN by: WRM
Pro. No. W912EP-XX-X-XXXX
Date: SEP 2023

23-215-NAV.DGN
23-215-DOC-MAPS.DGN
23-215-SOUN_ALLCUTS.DGN
SLI AND OWW(CUTS 1-5)_3D-MCCF.DGN
23-215-CABS-BRDR.DGN
Reference files:
23-215-VH-SH03.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
7, 10 & 16-FOOT PROJECT
STA. 28+00 THRU STA. 58+00 CUT-1
PLAN

Scale: AS SHOWN

Drawing no.
3

SHEET 03 OF 06

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"7"	CAN BUOY-7 (09/23)	929,288	1,030,643	27°09'59.71"	80°09'35.99"
R"8"	LT. BUOY-8 (09/23)	929,025	1,031,032	27°10'03.59"	80°09'38.88"
G"9"	LT-9 (09/23)	928,219	1,030,340	27°09'56.79"	80°09'47.86"
R"12"	DBN-12 (09/23)	927,351	1,030,344	27°09'56.88"	80°09'57.47"

NOTES:
1. REFER TO SURVEY NO. 23-215.
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: SEP 2023

23-215-N-NAV.DGN
23-215-N-SOUN_ALLCUTS.DGN
SLI AND OWW(CUTS 1-5)_3D-MICOF.DGN
23-215-C-BS-BNDR.DGN
Reference files
23-215-VH-SHW4.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
7, 10 & 16-FOOT PROJECT

STA. 58+00 CUT-1 THRU STA. 10+00 CUT-3

PLAN

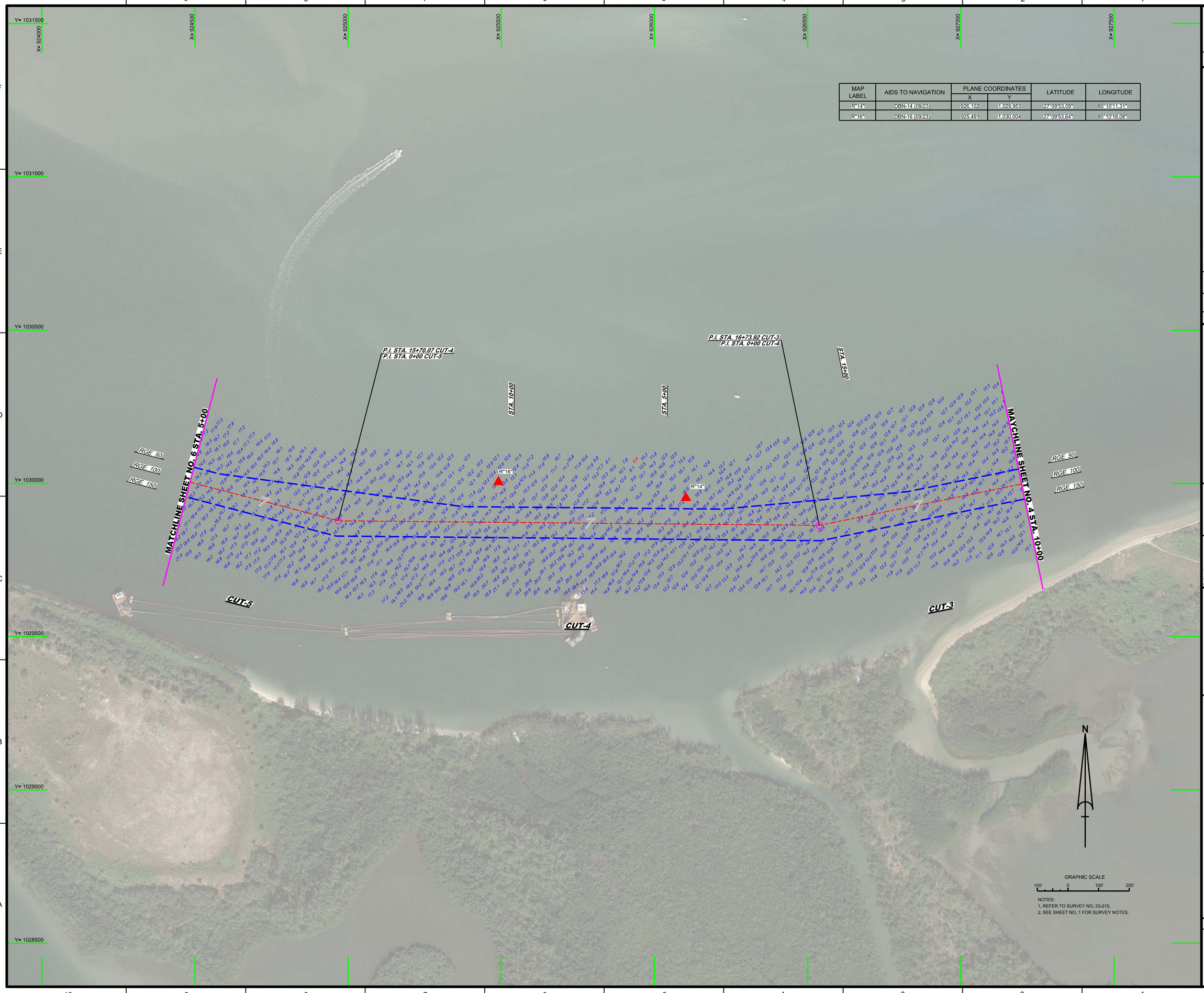
Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 06

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"14"	DBN-14 (09/23)	926,102	1,029,953	27°09'53.09"	80°10'11.31"
R"16"	DBN-16 (09/23)	925,491	1,030,004	27°09'53.64"	80°10'18.08"



NOTES:
1. REFER TO SURVEY NO. 23-215.
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: GMR
Designed by: WRM
DWN by: WRM
Rev. No. V9125EP-XXX-XXXX
Date: SEP 2023

XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
23-215-SVSOUN_ALCUTS.DGN
SLI AND OWW(CUTS 1-5)_3D-MCCF.DGN
23-215-CeBS-BRDR.DGN
Reference files:
23-215-VH-SHX5.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
7, 10 & 16-FOOT PROJECT

STA. 10+00 CUT-3 THRU STA. 5+00 CUT-5

PLAN

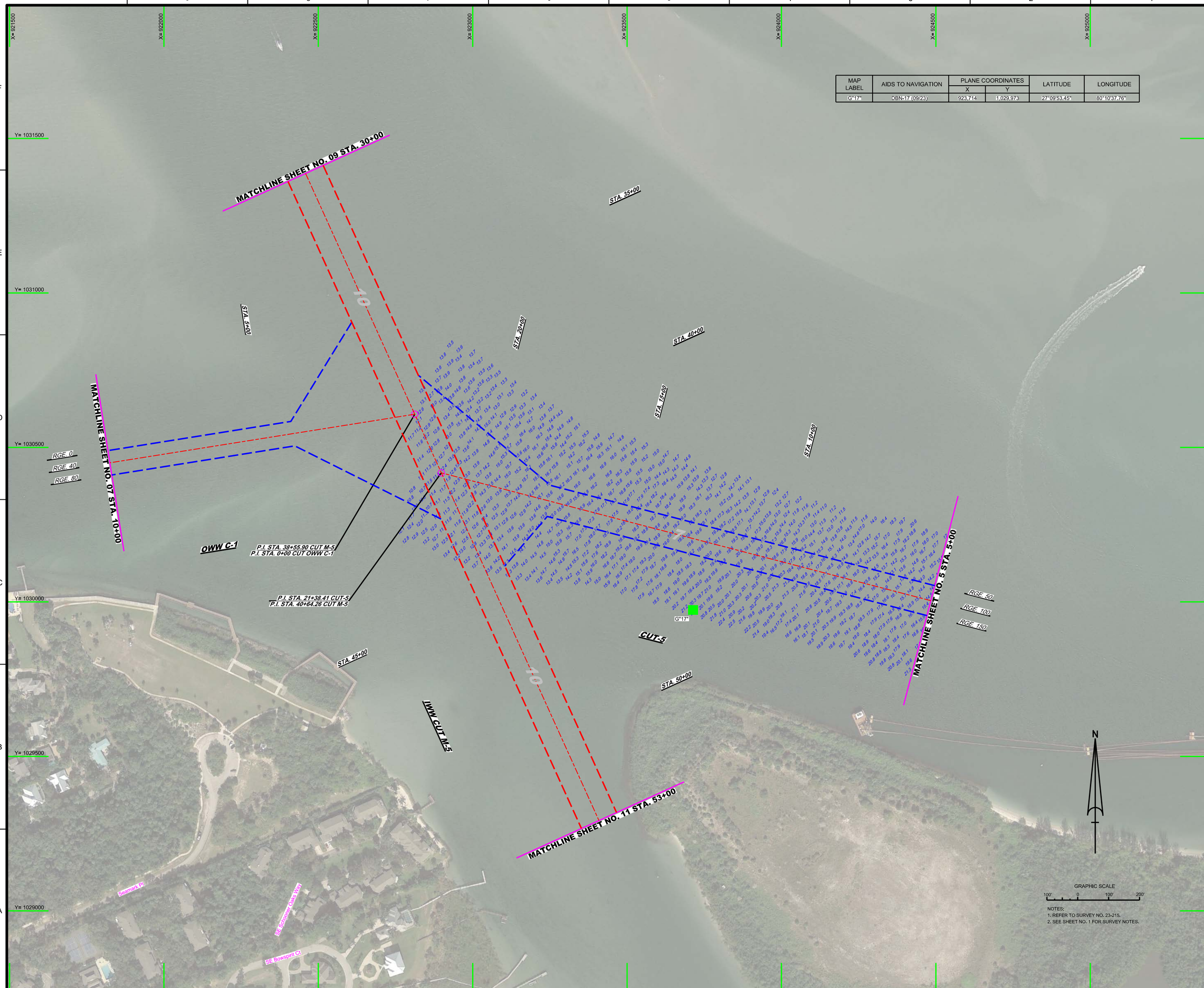
Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 06

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"17"	DBN-17 (09/23)	923,714	1,029,973	27°09'53.45"	80°10'37.76"



NOTES:
1. REFER TO SURVEY NO. 23-215.
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
Chk by: CMR
Rev. No. V01(2EF-XX-X-XXX)
Date: SEP 2023

23-215-LV-NAV.DGN
23-215-LV-SHOAL CUTS.DGN
IWW-CNGWCCF.DGN
SLI AND OWW(CUTS 1-5)_3D-MCCF.DGN
23-215-LV-ES-SHOR.DGN
Reference files:
23-215-LV-H-SH09.DGN
File name:

ST. LUCIE INLET
MARTIN COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
7, 10 & 16-FOOT PROJECT

STA. 5+00 THRU STA. 21+38.41 CUT-5

PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 06