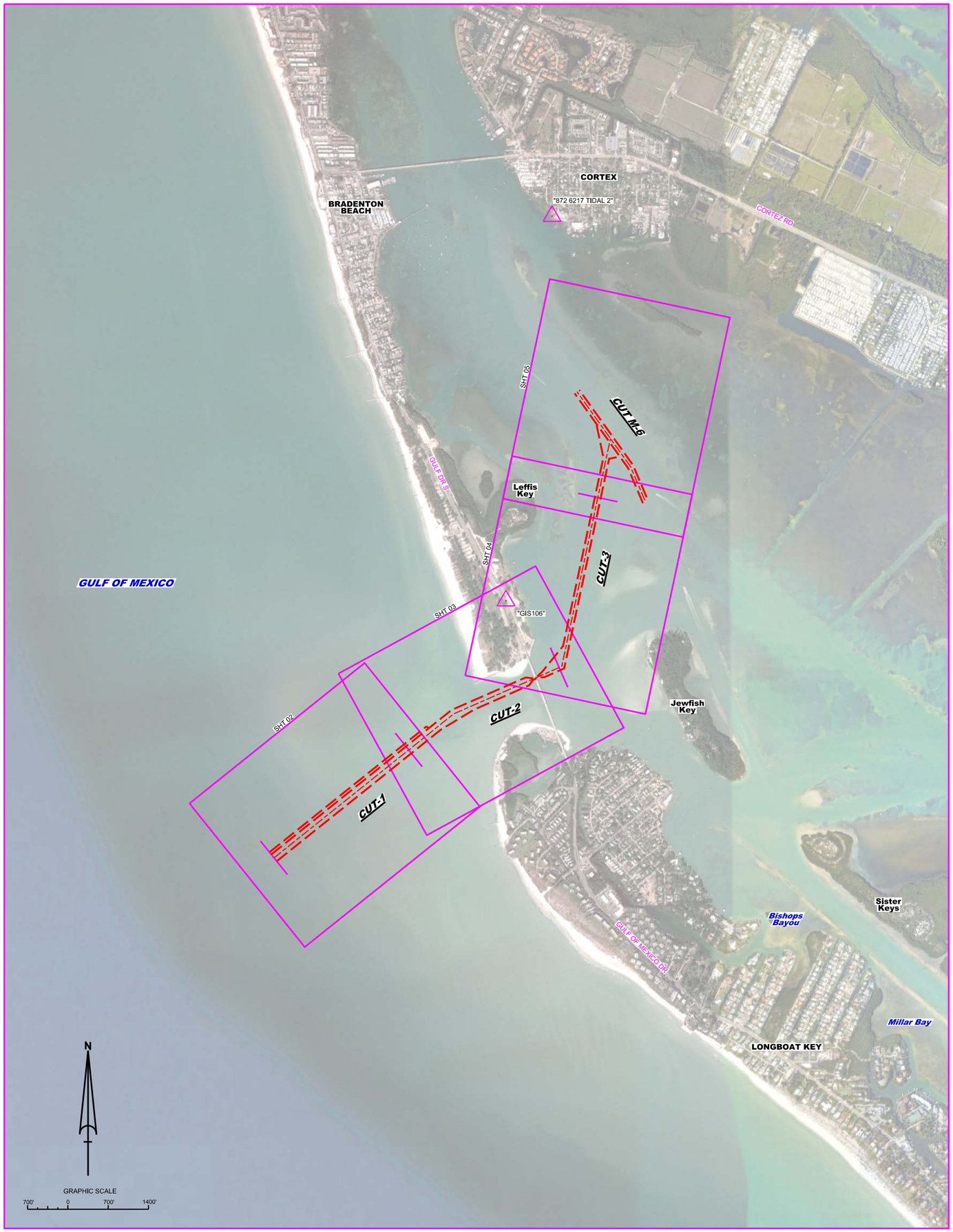
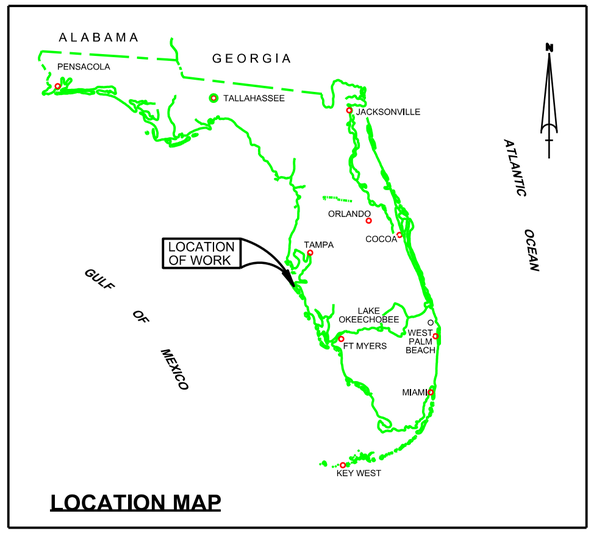




LOCATION MAP

LONGBOAT PASS
MANATEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY23
10 AND 12-FOOT PROJECT

SURVEY NOTES

1. REFER TO SURVEY NO. 23-152.
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: "SPC-FL-WEST-2010-12-07.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 WEST 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 "GIS-106" (PID: AG9211)
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 6217 TIDAL 2" USED FOR ALL CUTS (PID: AG1999)

   VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER 835 SINGLE-BEAM TRANSDUCER OPERATING AT 28/200 KHZ. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-52	02-10 MAY 2023	CUTS 1-3

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

Cad by: CMR
Designer by: WRM
DWN by: WRM
Inv. No.
Date: MAY 2023

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
23-152-LN01X.DGN
LONGBOAT PASS NAD83(90)-2D.DGN
23-152-CF-BS-BRDR.DGN
Reference files:
23-152-VH-001.DGN
File name:

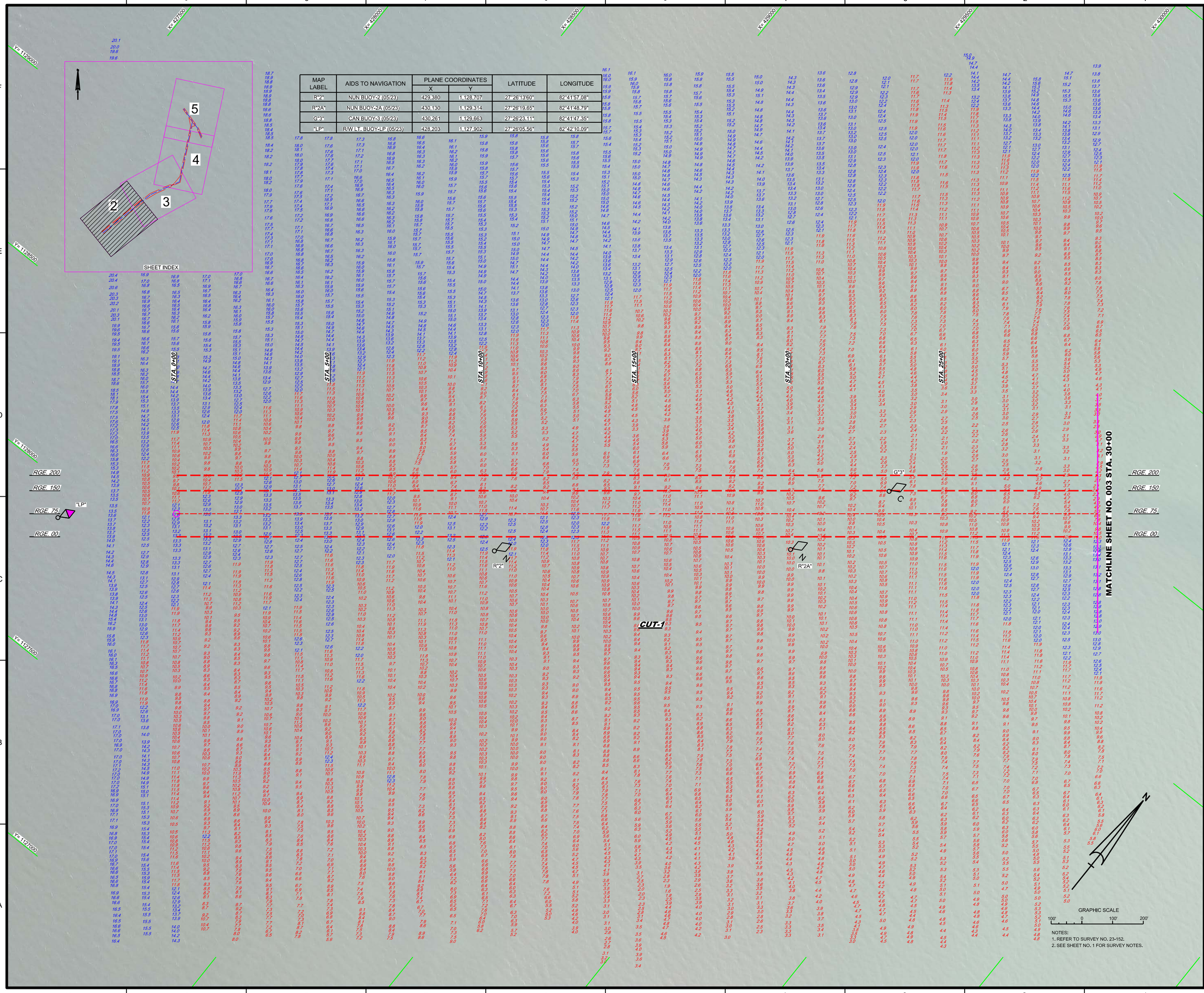
LONGBOAT PASS
MANATEE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY23
10 AND 12-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 05

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"2"	NUN BUOY-2 (05/23)	429,380	1,128,707	27°26'13.60"	82°41'57.08"
R"2A"	NUN BUOY-2A (05/23)	430,130	1,129,314	27°26'19.65"	82°41'48.79"
G"3"	CAN BUOY-3 (05/23)	430,261	1,129,663	27°26'23.11"	82°41'47.35"
"LP"	R/W LT. BUOY-LP (05/23)	428,203	1,127,902	27°26'05.56"	82°42'10.09"



NOTES:
1. REFER TO SURVEY NO. 23-152.
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.
Date: MAY 2023

23-152-HAN-U.DGN
23-152-A-SOUN_C1.DGN
LONGBOAT PASS NAD83(96)-2D.DGN
23-152-C-BS-BRDR.DGN
Reference files
23-152-VHK02.DGN
File name:

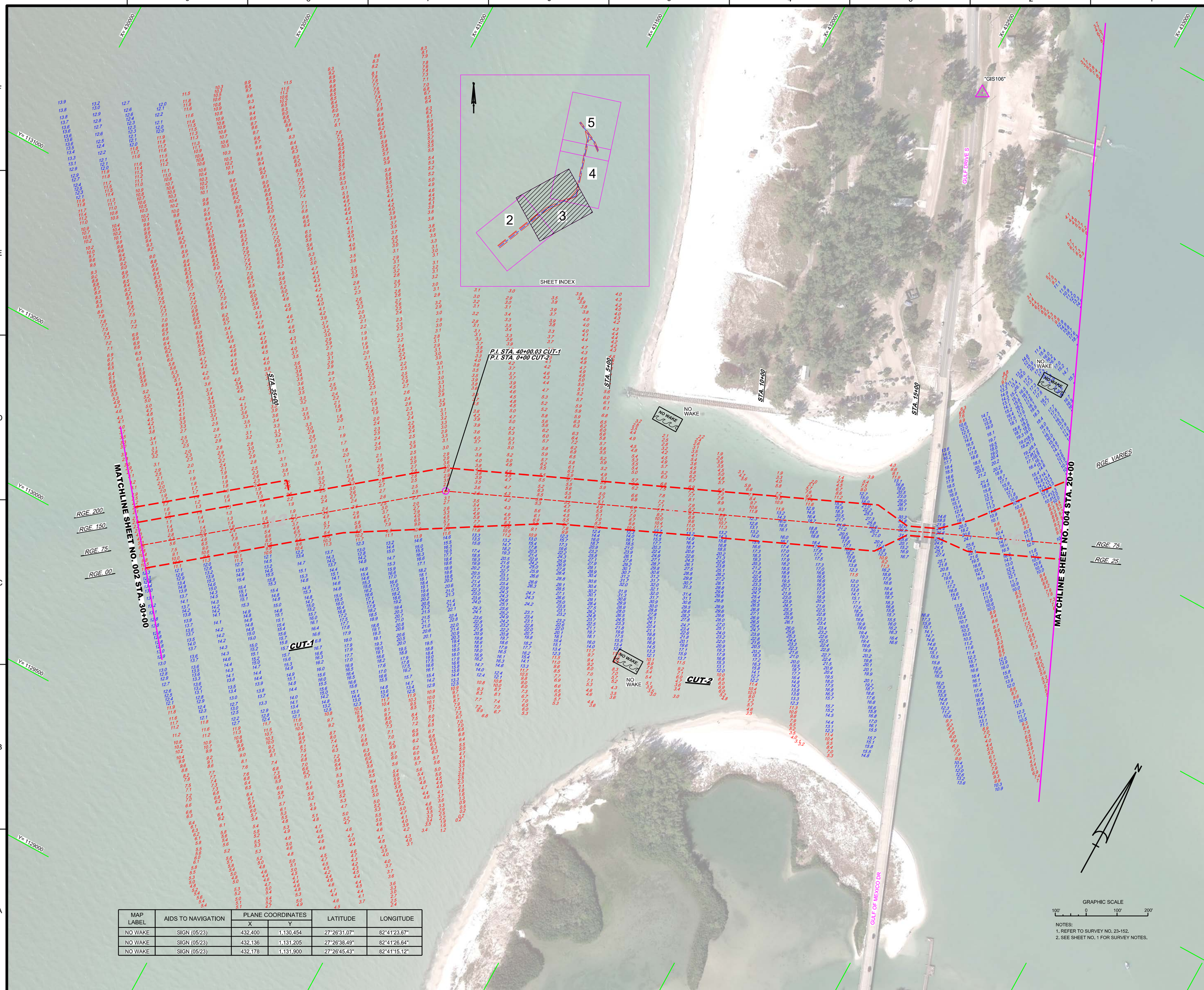
LONGBOAT PASS
MANATEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
10 AND 12-FOOT PROJECT
PLAN
STA. 0+00 THRU STA. 30+00 CUT-1

Scale: AS SHOWN

Drawing no.
2

SHEET 02 OF 05



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
NO WAKE	SIGN (05/23)	432,400	1,130,454	27°26'31.07"	82°41'23.67"
NO WAKE	SIGN (05/23)	432,136	1,131,205	27°26'38.49"	82°41'26.64"
NO WAKE	SIGN (05/23)	432,178	1,131,900	27°26'45.43"	82°41'15.12"

NOTES:
1. REFER TO SURVEY NO. 23-152.
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: VRM
Drawn by: VRM
Checked by: GMR
Proj. No.
Date: MAY 2023

23-152A-NAV.DGN
23-152A-SOUL_C1.DGN
23-152A-SOUL_C2.DGN
23-152A-SOUL_C1.DGN
LONGBOAT PASS NAD83(96)-2D.DGN
23-152A-RBS-RBDR.DGN
Reference files:
23-152A-H003.DGN
Filename:

LONGBOAT PASS
MANATEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
10 AND 12-FOOT PROJECT

STA. 30+00 CUT-1 THRU STA. 20+00 CUT-2

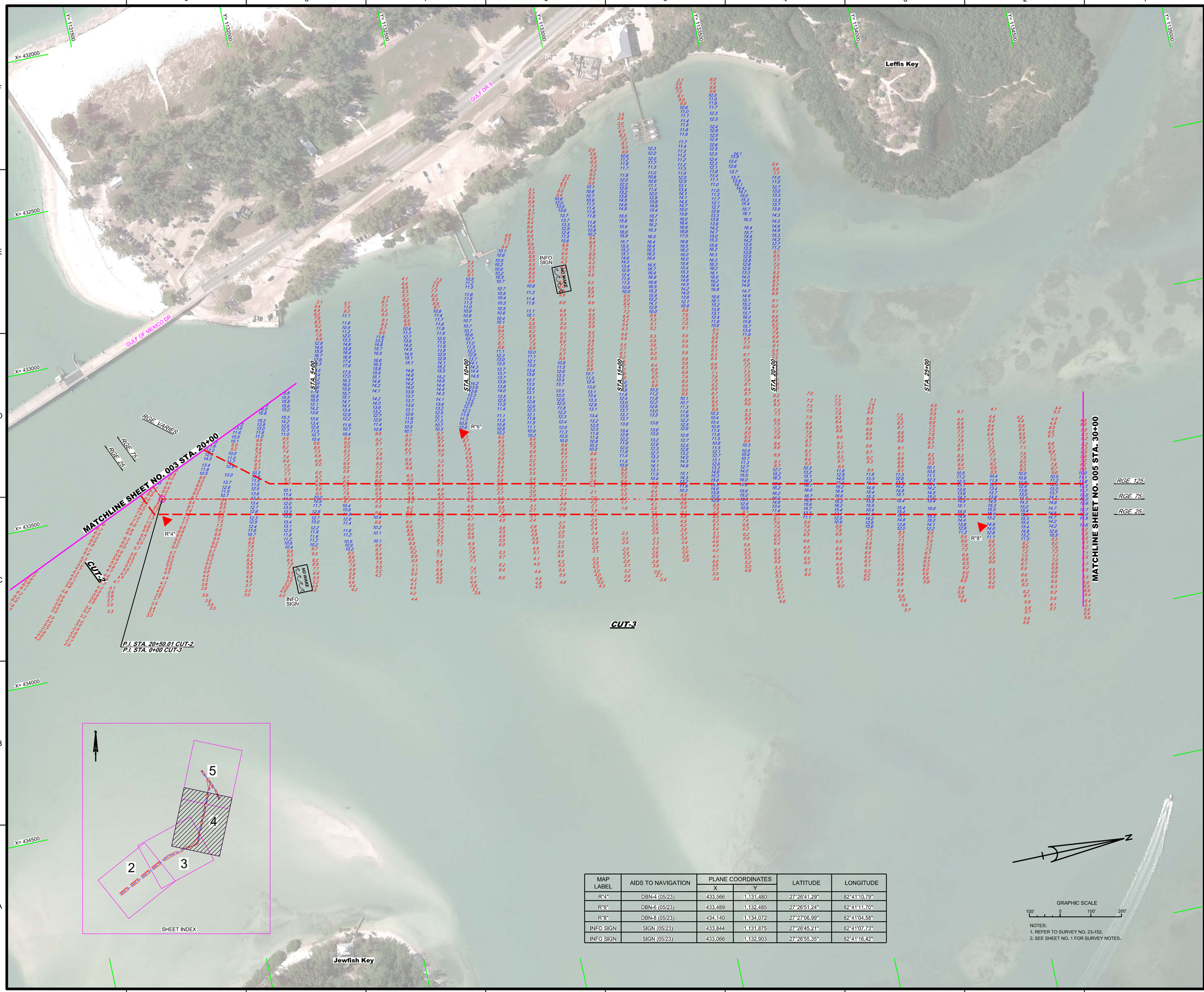
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 05



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"4"	DBN-4 (05/23)	433,566	1,131,480	27°26'41.29"	82°41'10.79"
R"6"	DBN-6 (05/23)	433,489	1,132,485	27°26'51.24"	82°41'11.70"
R"8"	DBN-8 (05/23)	434,140	1,134,072	27°27'06.99"	82°41'04.58"
INFO SIGN	SIGN (05/23)	433,844	1,131,875	27°26'45.21"	82°41'07.73"
INFO SIGN	SIGN (05/23)	433,066	1,132,903	27°26'55.35"	82°41'16.42"

NOTES:
1. REFER TO SURVEY NO. 23-152.
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
Drawn by: WRM
Checked by: GMR
Proj. No.
Date: MAY 2023

23-152-NAV.DGN
23-152-SOUN_CL.DGN
23-152-SOUN_CD.DGN
LONGBOAT PASS NAD83(96)-2D.DGN
23-152-CB-BRGR.DGN
References files:
23-152-VHD04.DGN
File name:

LONGBOAT PASS
MANATEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
10 AND 12-FOOT PROJECT

STA. 20+00 CUT-2 THRU STA. 30+00 CUT-3

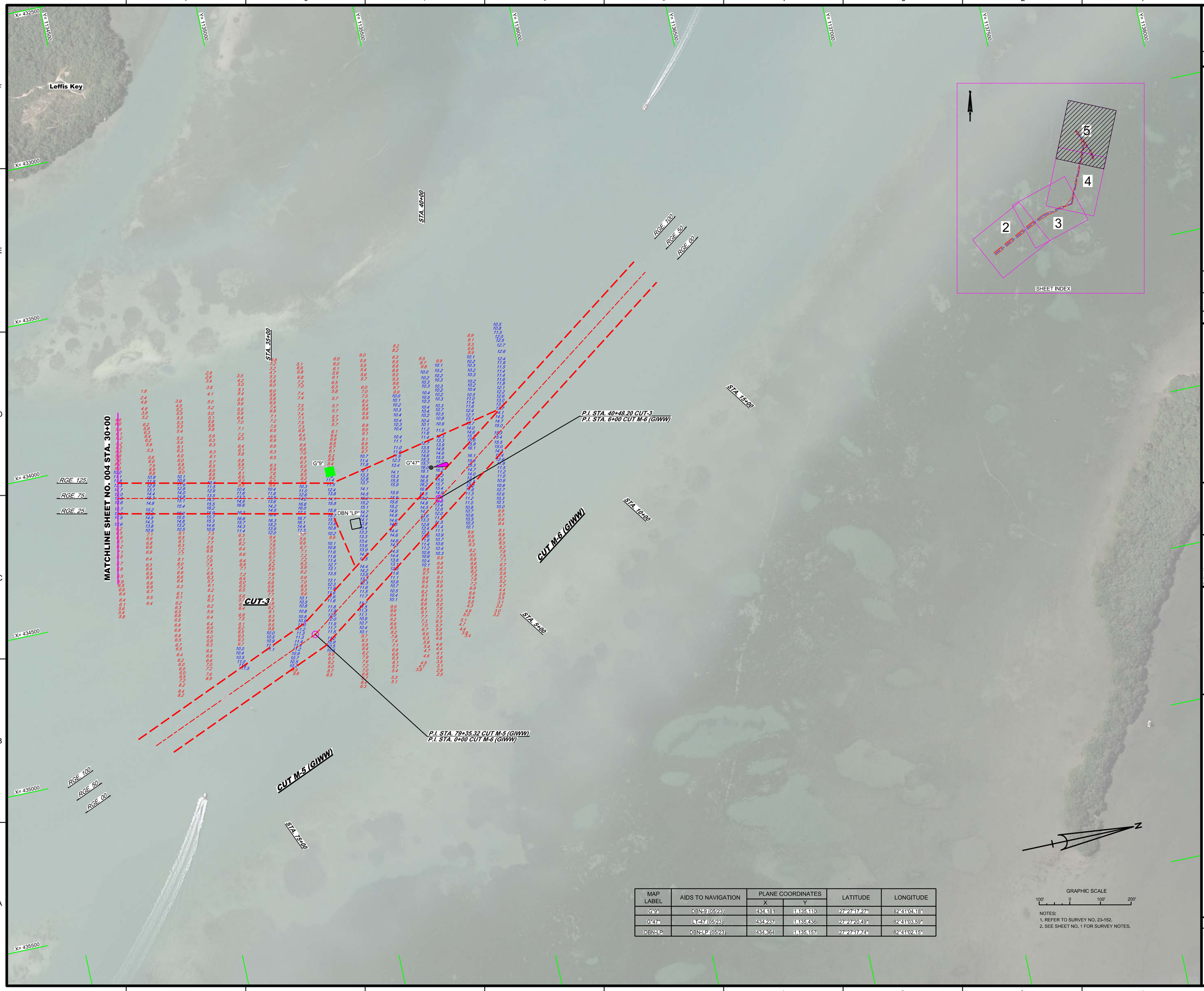
PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 05



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"9"	DBN-9 (05/23)	434,181	1,135,110	27°27'17.27"	82°41'04.18"
G"47"	LT-47 (05/23)	434,237	1,135,436	27°27'20.49"	82°41'03.59"
DBN-LP	DBN-LP (05/23)	434,364	1,135,157	27°27'17.74"	82°41'02.15"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-152.
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.
Date: MAY 2023

23-152-NAVI.DGN
23-152-VSUR_CUT.DGN
LONGBOAT PASS NAD83(1990)-2D.DGN
23-152-CHS-BRDR.DGN
Reference files:
23-152-VH-005.DGN
File name:

LONGBOAT PASS
MANATEE COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY23
10 AND 12-FOOT PROJECT

STA. 30+00 CUT-3 THRU STA. 30+00 CUT-3

PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 05