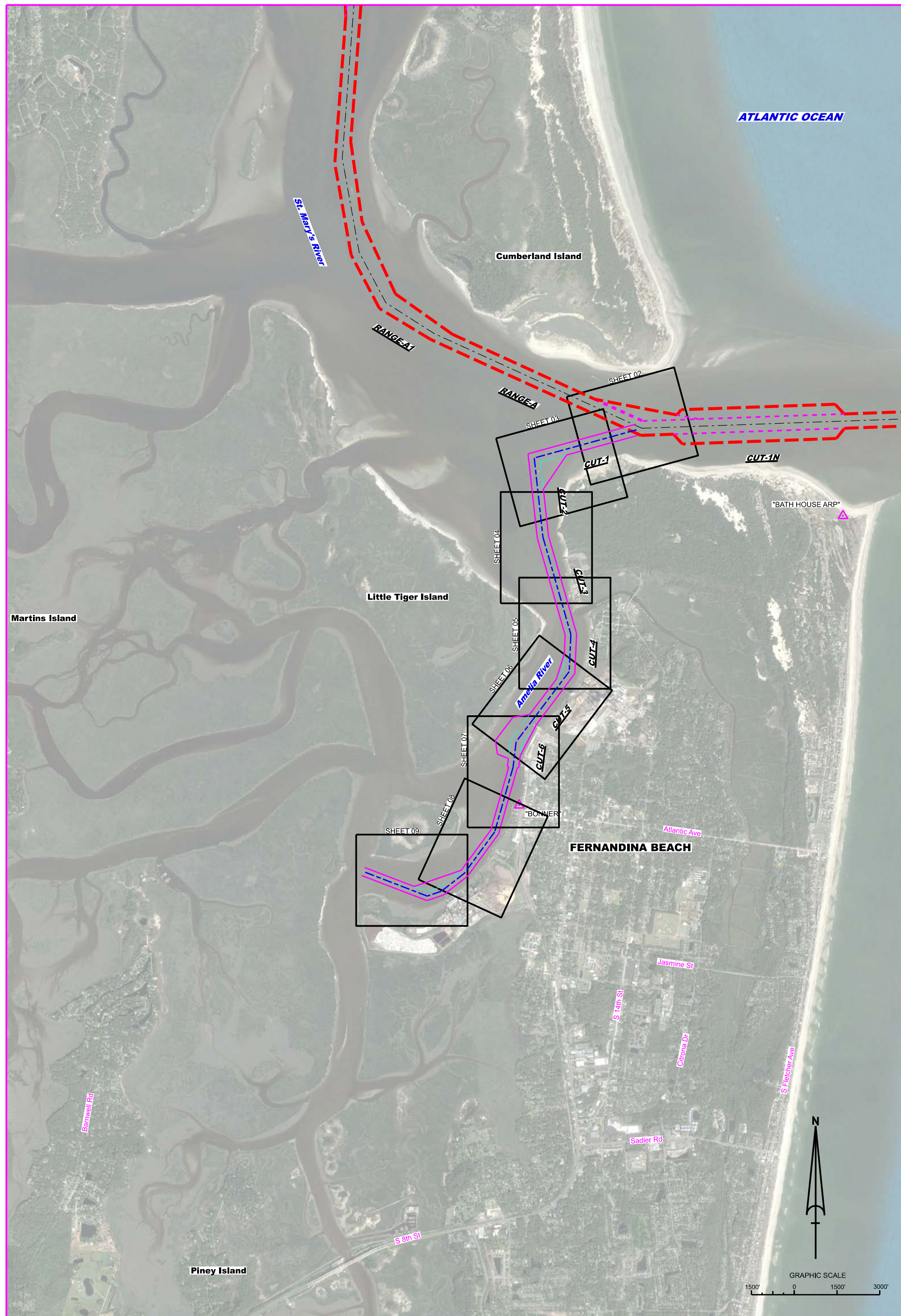




**FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY24
28, 35 & 36-FOOT PROJECT**

SURVEY NOTES

1. REFER TO SURVEY NO. 24-149.
2. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001, AS PUBLISHED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA).
3. NOAA'S VDUTAM MODEL, AND PUBLISHED TIDE STATION DATA, WERE USED TO GENERATE A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. THIS KTD MODEL, BEING A COMBINATION OF THOSE TWO SOURCES, CANNOT BE CONSIDERED EQUIVALENT TO THE VDUTAM MODEL BECAUSE OF POSSIBLE ADDITIONS OR EDITS THERETO. DO NOT USE VDUTAM IN PLACE OF THE KTD FILE. THE KTD MODEL USED FOR THIS SURVEY IS:

"CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER_20191202.KTD"
4. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING THE KTD FILE REFERENCED ABOVE, AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITES SPECIFIED BELOW:

NOAA TIDAL STATION 872-0030, FERNANDINA BEACH, AMELIA RIVER, FL
5. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
6. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
7. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
8. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

REFERENCE BASE LOCATED AT "BATH HOUSE ARP" (OPUS PID: BBCB08) FOR ALL CUTS

TIDE STAFF WAS SET ON THE SOUTH END OF THE CONSOLIDATED FUEL DOCK, NORTH OF FERNANDINA MUNICIPAL MARINA, FROM "RICHARD E BONNER" (PID: BBCK39)
9. VERTICAL MEASUREMENTS WERE MADE USING A RESON MODEL 750P MULTIBEAM SYSTEM AND AN ODOM E20 ECHOSOUNDER WITH A DUAL-FREQUENCY SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

<u>VESSEL</u>	<u>DATE OF SURVEY</u>	<u>AREA SURVEYED</u>
SB AMELIA	05 JUN 2024	CUT-1 THRU CUT-6
SB AMELIA	06 JUN 2024	CUTS 6A THRU 9 (PARTIAL) AND TURNING BASIN
SB AMELIA	07 JUN 2024	CUTS 8, 9 (PARTIAL) & 10

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 M 1110-2-1003, HYDROGRAPHIC SURVEYING, 30 NOV 2013 AND M 1110-2-8056, STANDARDS AND PROCEDURES FOR HYDROGRAPHIC SURVEYING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 2010.

LEGEND	
	MONUMENT
	LIGHTED BEACON
	GREEN DAYBEACON
	RED DAYBEACON
	RED LIGHTED BUOY
	GREEN LIGHTED BUOY
	CAN BUOY
	NUN BUOY
	TIDE STAFF
	PROJECT DEPTH

 US Army Corps of Engineers Jacksonville District	
SAFETY ON THIS JOB DEPENDS ON YOU	
DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS <!-- Empty space for drawing -->	

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FERNANDINA HARBOR
NASSAU COUNTY, FLORIDA

HYDROGRAPHIC EXAM SURVEY FY24

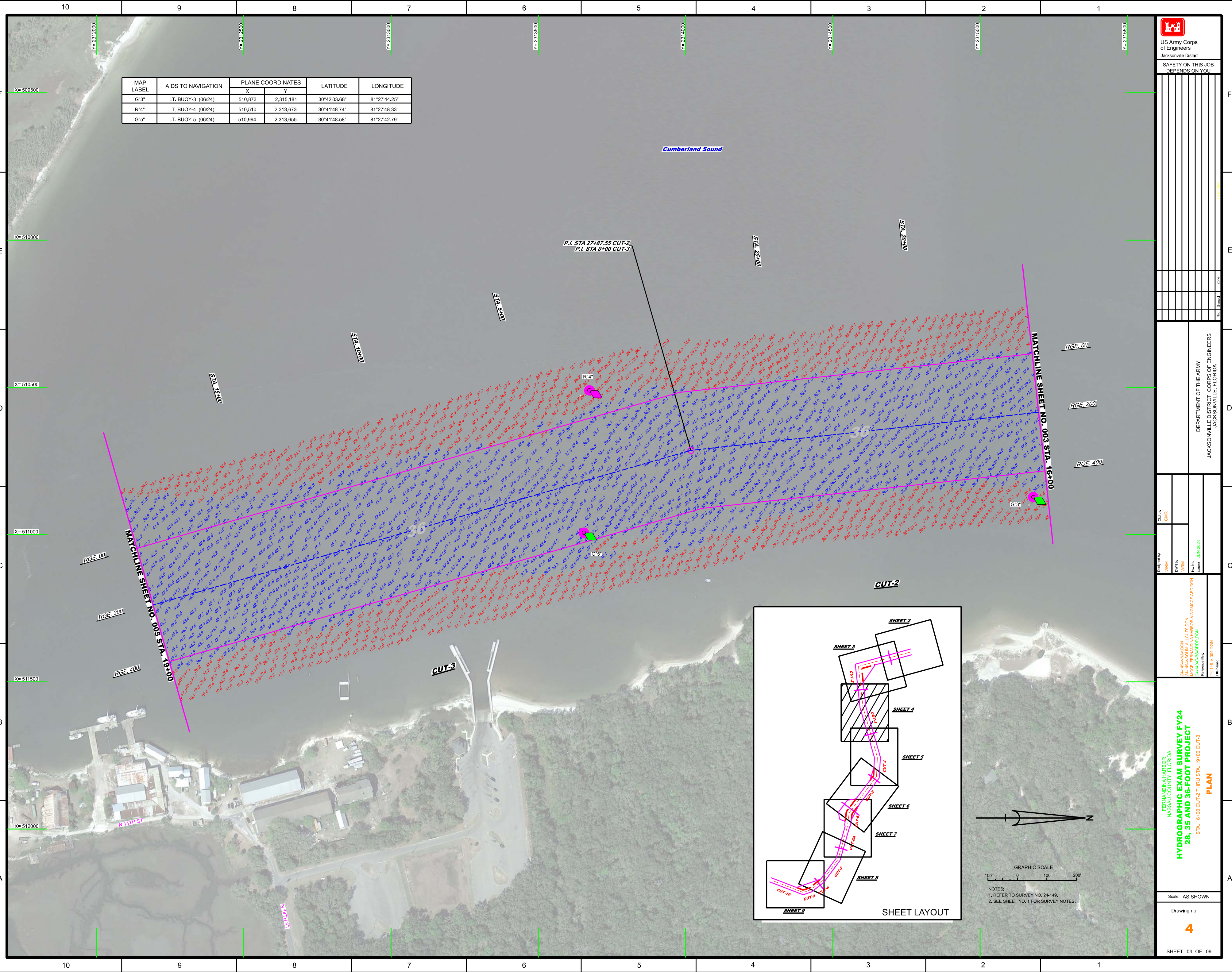
28, 35 AND 36-FOOT PROJECT

INDEX, LOCATION AND VICINITY

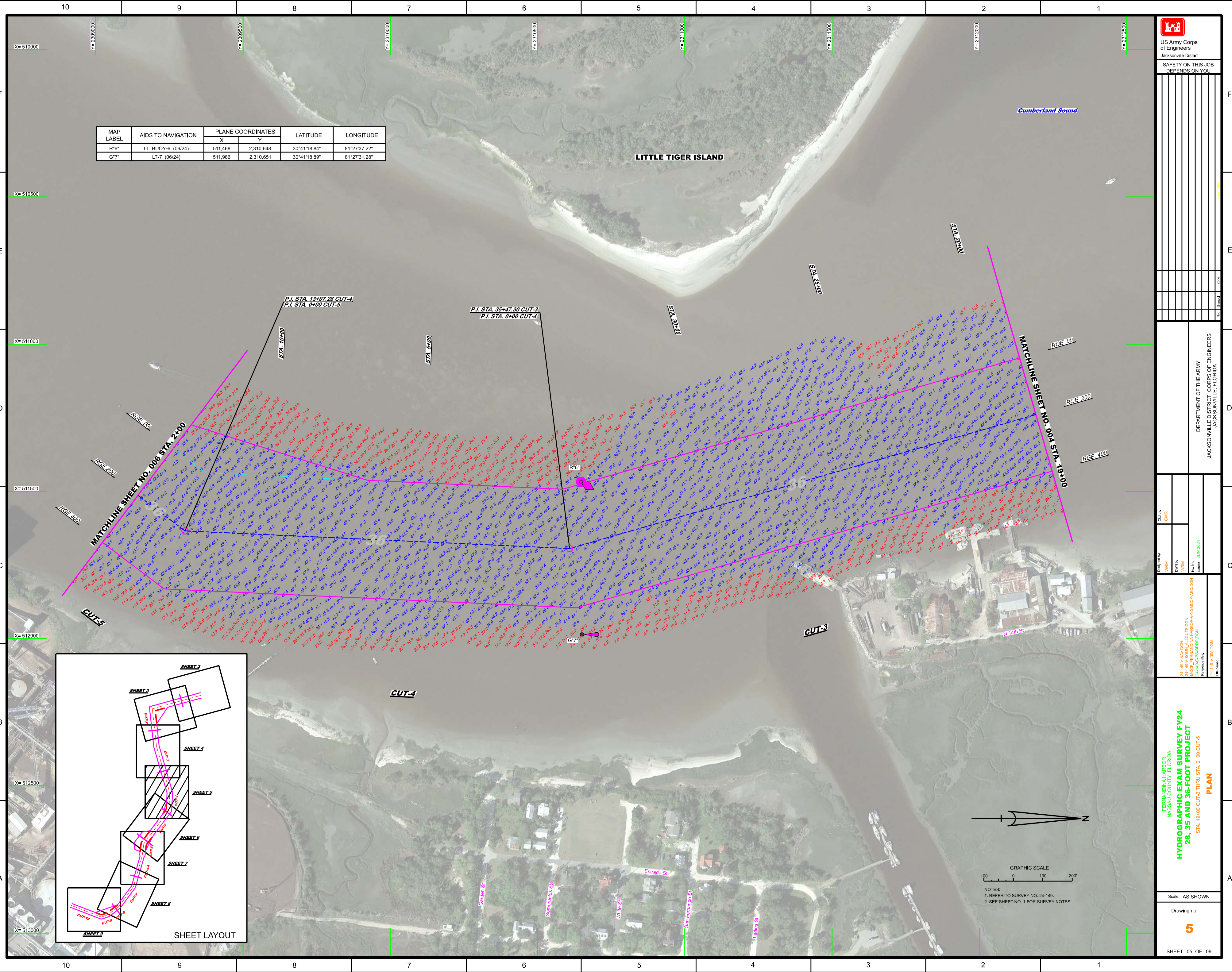
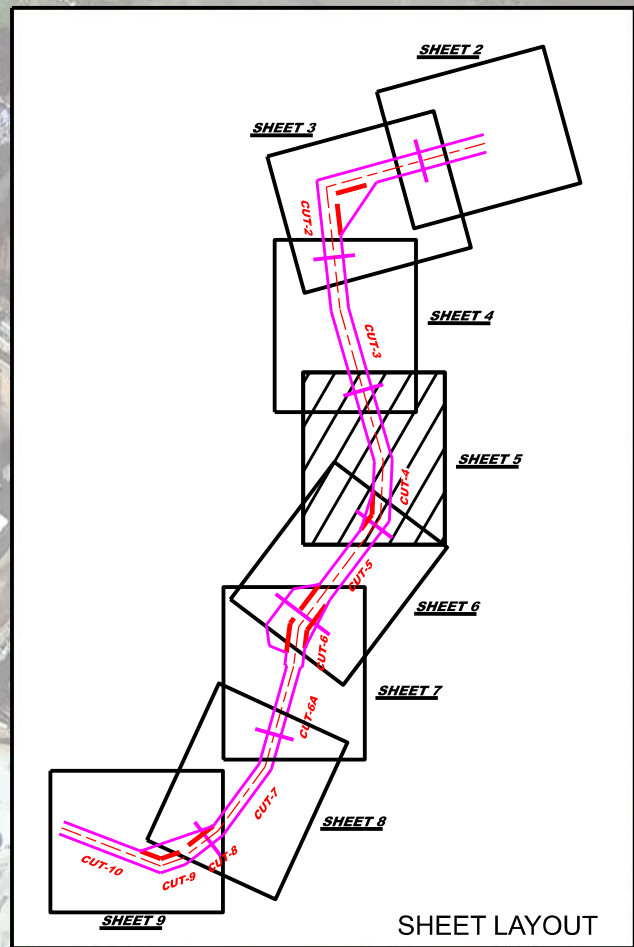
MAP

Scale: AS SHOWN	
Drawing no.	1
SHEET 01 OF 09	

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G*3"	LT. BUOY-3 (06/24)	510,873	2,315,181	30°42'03.68"	81°27'44.25"
R*4"	LT. BUOY-4 (06/24)	510,510	2,313,673	30°41'48.74"	81°27'48.33"
G*5"	LT. BUOY-5 (06/24)	510,994	2,313,655	30°41'48.58"	81°27'42.79"

[illegible]

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R*6*	LT. BUOY-6 (06/24)	511.468	2,310.648	30°41'18.84"	81°27'37.22"
G*7*	LT-7 (06/24)	511.986	2,310.651	30°41'18.89"	81°27'31.28"

[illegible]

	DIN type	Coin type
	VFRM	SMBR
20-18-BK-NAL/DON CUTS.DON MCIF_FERNANDA_HARBORN-ANGWCF-AECD.DON	DIN type	
20-18-CG-BB-BRD.LDON	VFRM	
Reference file(s)	No. Vols. Disc(s)	Date JUN 9/2024
20-16A-045-DON		
FBIHQ - retained		

LERNANDINA PARSONS
 NASSAU COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY24
28.35 AND 36-FOOT PROJECT
 STA. 19+00 CUT-3 THRU STA. 2+40 CUT-5
PLAN
 Scale: AS SHOWN
 Drawing no. **5**
 SHEET 05 OF 09

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
B*8*	LT BUOY-8 (06/24)	511.021	2 309.051	30°41'03.01"	81°27'42.26"



US Army Corps
of Engineers
Jacksonville District

SAFETY ON THIS JOB
REQUIRES CAUTION

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DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS

Diagnosed by:	Old by:
WRM	GMR
DWN by:	
WRM	
W/v. No. Dated: JUN 2024	

1-149-VH-NAV.DGN
1-149-V-SOUN_ALLCUTS.DGN
CCCF_FERNANDINA HARBOR-CNGMCCF-AEC.DGN
1-149-G-BRDR.DGN
reference files:
149-VH-006.DGN

**HYDROGRAPHIC EXAM SURVEY FY24
28, 35 AND 36-FOOT PROJECT**

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 09

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R*10'	LT. BUOY-10 (06/24)	509,482	2,305,919	30°40'31.95"	81°27'59.74"



U.S. Army Corps
Engineers
Jacksonville District

SAFETY ON THE
DEPENDS ON

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JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

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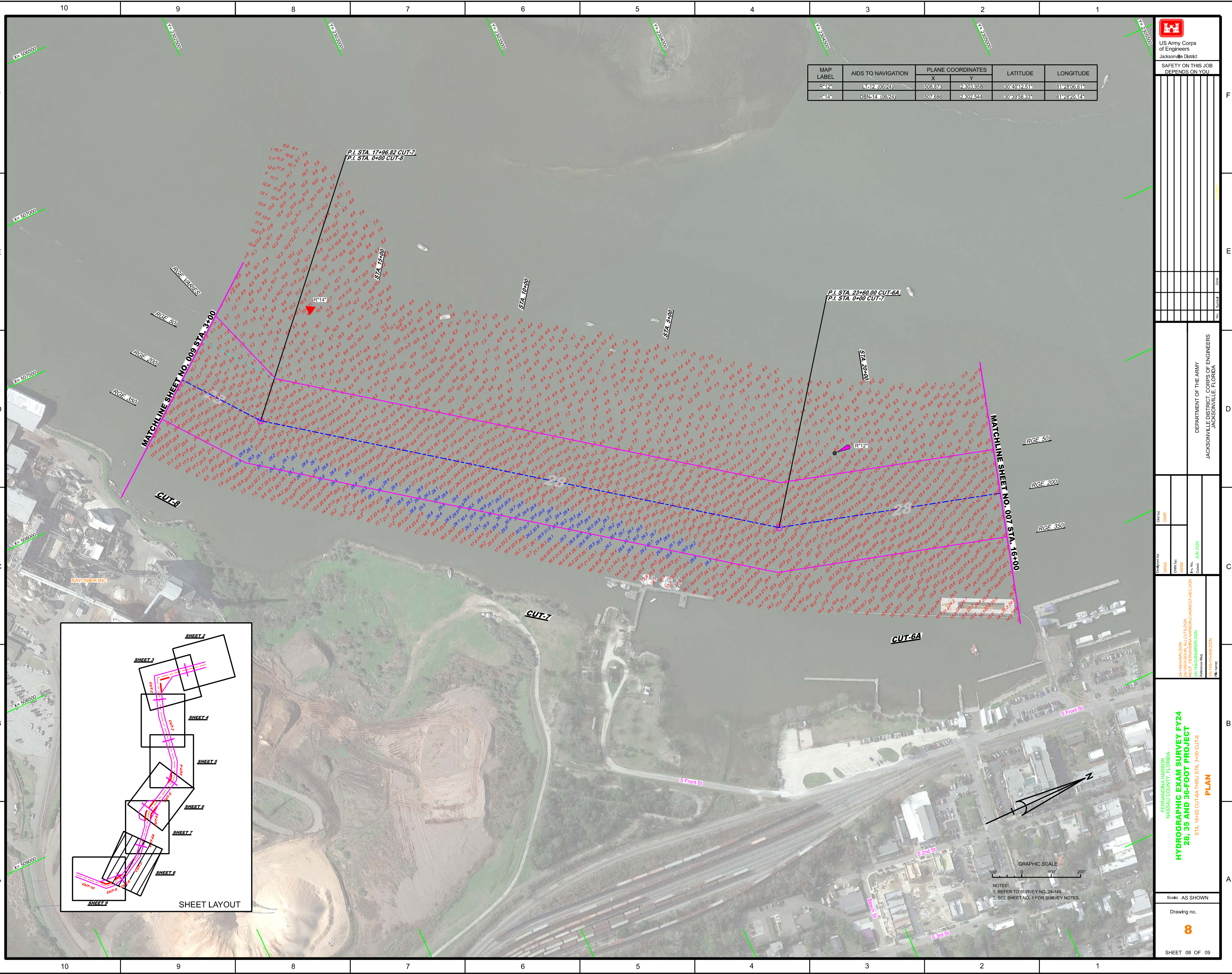
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Scale:

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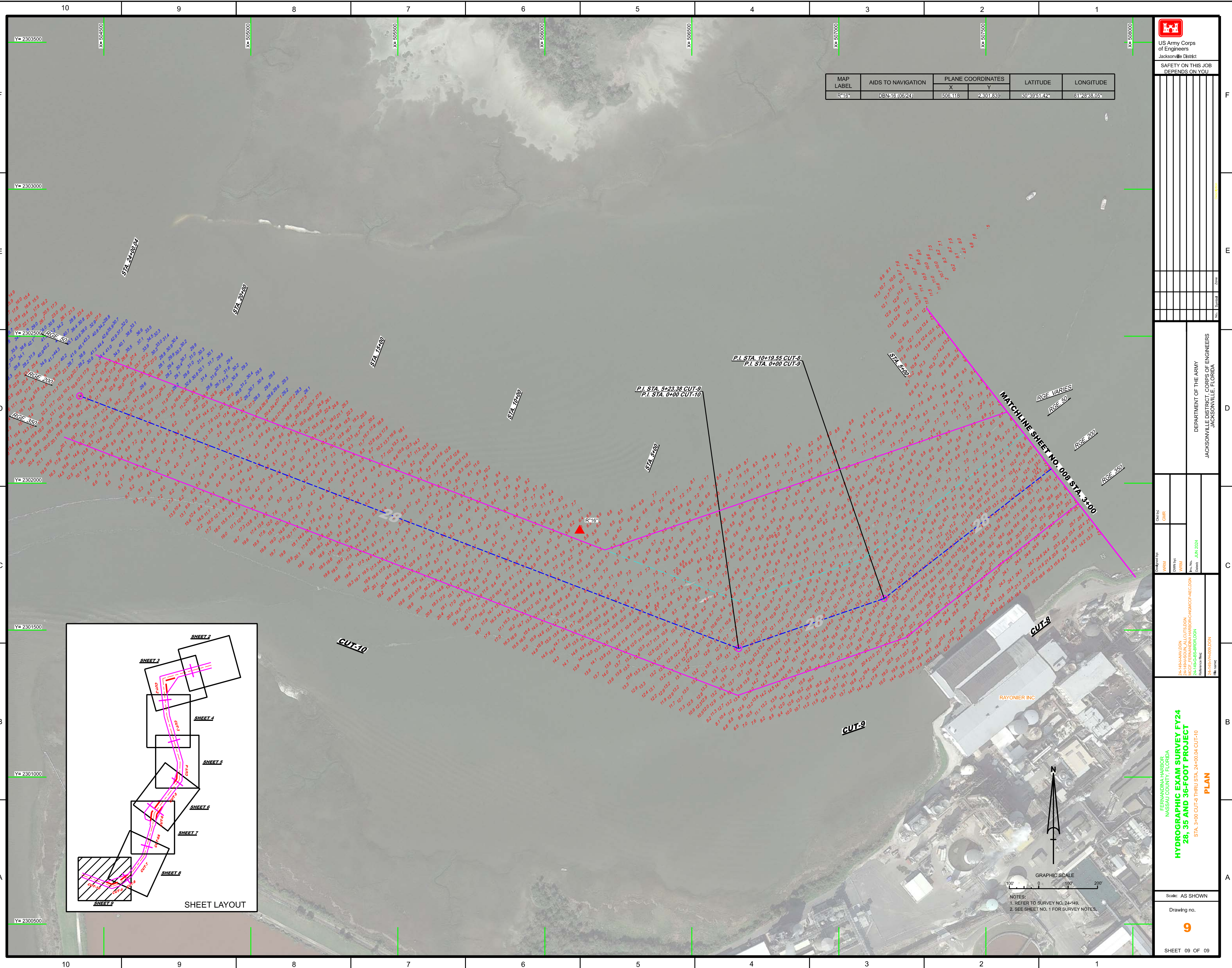
SHEET

STEEL



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R-12*	L-12 (06/24)	508.873	2,303,958	30°40'12.51"	81°28'06.61"
R-14*	DBN-14 (06/24)	507.686	2,302,544	30°39'58.33"	81°28'20.14"

 US Army Corps of Engineers Jacksonville District		SAFETY ON THIS JOB DEPENDS ON YOU																																																																																																																																																																									
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MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R*16*	DBN-16 (06/24)	506.118	2,301.839	30°39'51.42"	81°28'38.05"



US Army Corps
of Engineers
Jacksonville District

**SAFETY ON THIS JOB
DEPENDS ON YOU**

[illegible]

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

Investigative Org:	WRM	Call Org:	GMR
DWN By:	WRM		
Prv. No.		JUN 2024	
Dated:			

1-149-V-NAV.DGN
1-149-V-SOUN_ALLCUTS.DGN
CCCF_FERNANDINA HARBOR-C-NGMCCF-AEC.DGN
1-149-G-BS-BRD.R.DGN
reference files:
1-149-VH-009.DGN

HYDROGRAPHIC EXAM SURVEY FY24
28, 35 AND 36-FOOT PROJECT

PLAN

Drawing no.

9

SHEET 09 OF 09