

MIAMI HARBOR DADE COUNTY, FLORIDA HYDROGRAPHIC EXAM SURVEY FY21

SURVEY NOTES

- REFER TO SURVEY NOS. 21-222.
- SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL NAMED "BROWARD-MIAMIDADE-MONROE-COLLIER_2018 05 02.KTD".
- ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983, REALIZATION OF 2007 (NAD83(2007)).
- ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
- THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:
REFERENCE BASE LOCATED AT "USCG MIAMI ARP" (OPUS PID: BBDD68)
TIDE STAFF SET NEAR BAYSIDE MARINA FROM "MH-16 RM-1" (PID: AC2178)
- 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 SITE SPECIFIED BELOW:
NOAA TIDAL STATION 872-3165 MIAMI BISCAYNE BAY, FLORIDA FOR ALL CUTS.
- VERTICAL MEASUREMENTS WERE MADE USING A RESON T-20P MULTI-BEAM SYSTEM OPERATING AT 300 KHZ AND A ROSS MODEL 835 SMART SOUNDER WITH A DUAL-FREQUENCY (28/200 KHZ) TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-52	14-15 JUL 2021	CUT-1, CUT-2
SB-52	15 JUL 2021	CUT-2, CUT-3
SB-52	20 JUL 2021	CUT-4, MTB
SB-52	21 JUL 2021	SOUTH SHIP CHANNEL, LUMMUS ISLAND T.B., DODGE ISLAND CUT

- AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
- 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.
- 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 AND EM 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 10.

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

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JACKSONVILLE, FLORIDA

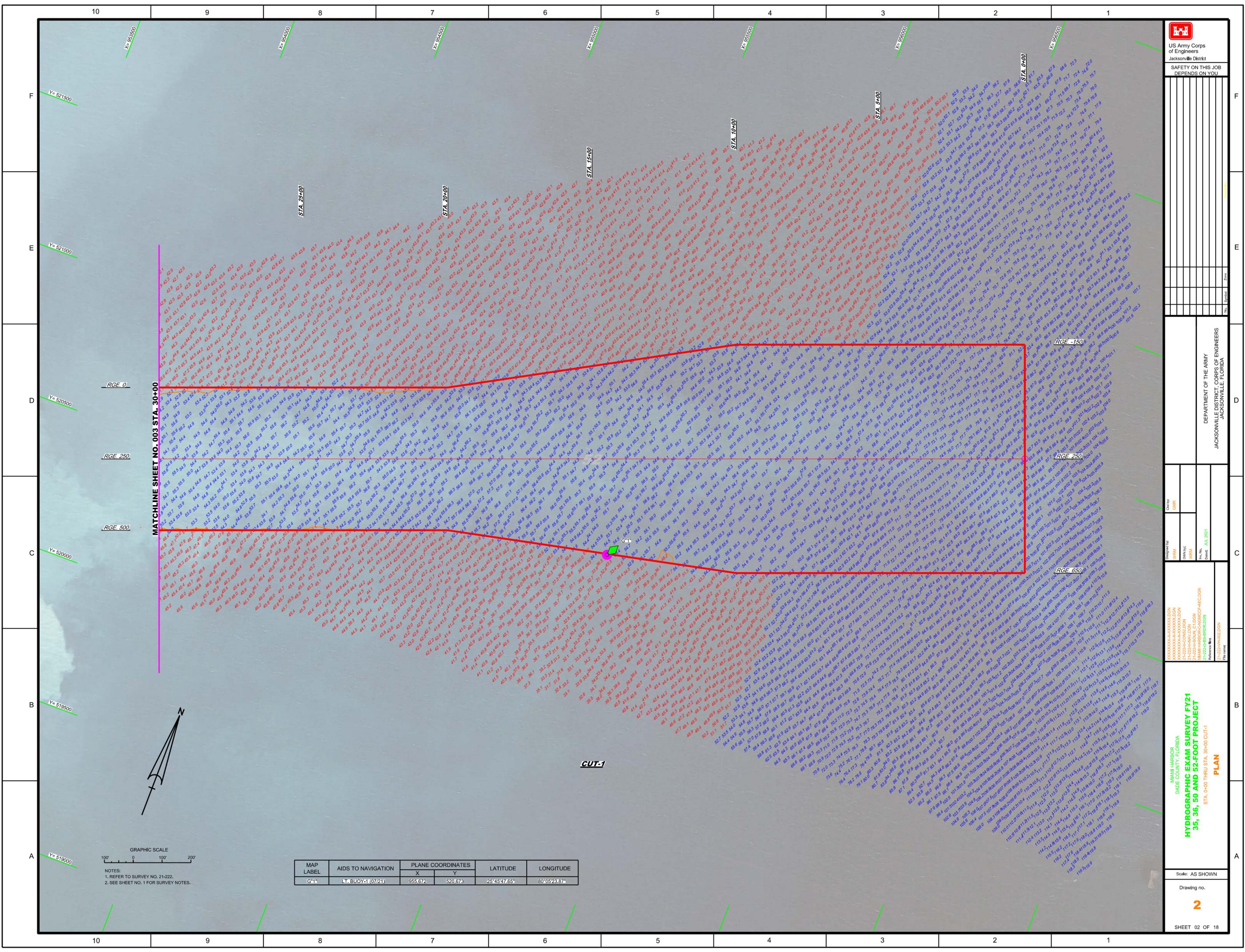
MIAMI HARBOR, FLORIDA
DADE COUNTY, FLORIDA
**HYDROGRAPHIC EXAM SURVEY FY21
35, 36, 50 AND 52-FOOT PROJECT**
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 18







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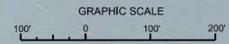
Checked by:	GHR
Designed by:	WRM
Drawn by:	WRM
Field Date:	JUL 2021

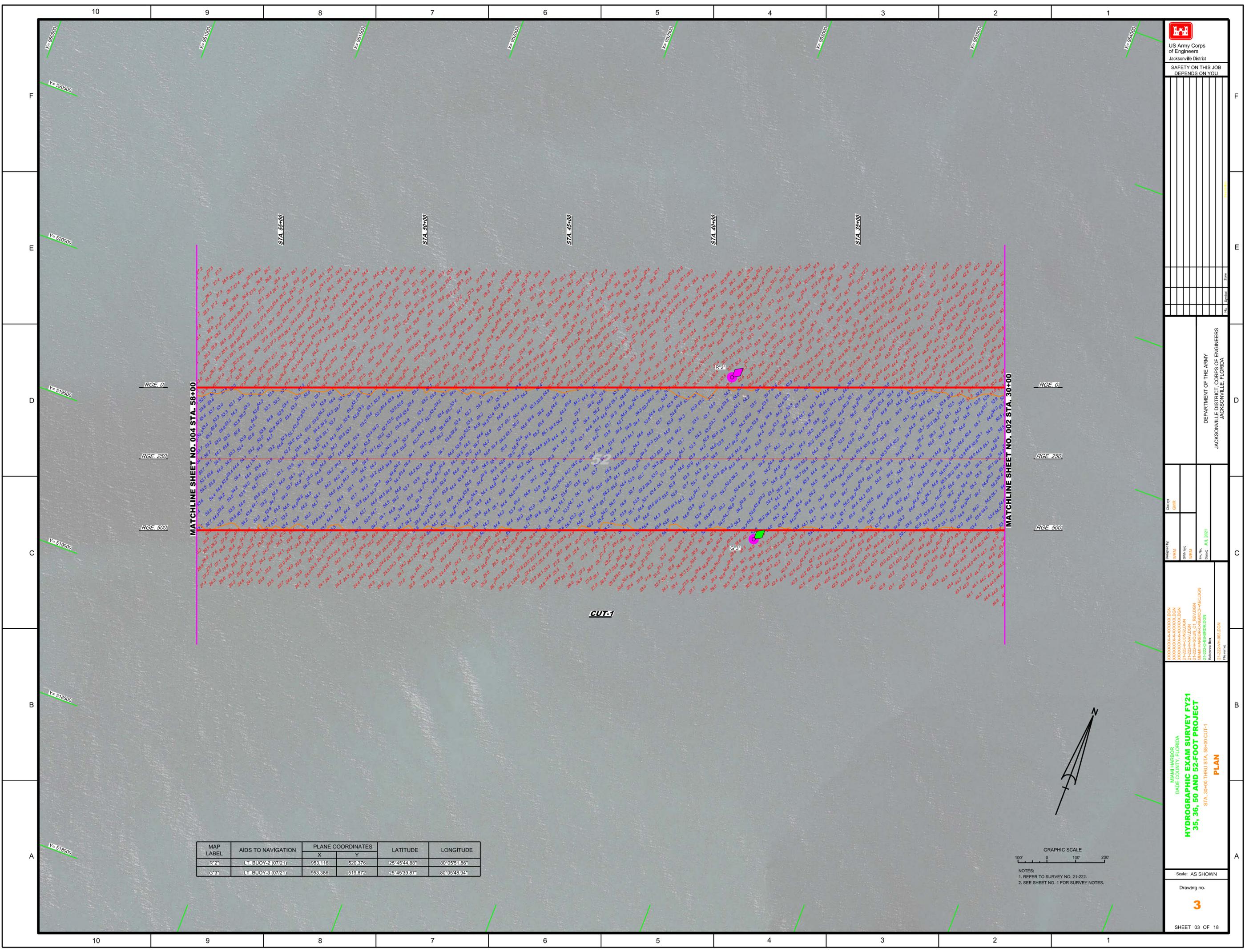
MAMI HARBOR
 DADE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY21
35, 36, 50 AND 52-FOOT PROJECT
 STA. 0+00 THRU STA. 30+00 CUT-1
PLAN

Scale: AS SHOWN
 Drawing no. **2**
 SHEET 02 OF 18

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G#1	BUOY (71/21)	955.672	520.676	25°45'47.65"	80°05'23.87"

NOTES:
 1. REFER TO SURVEY NO. 21-222.
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.





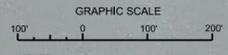

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 JACKSONVILLE, FLORIDA

Designed by: **WRM**
 Checked by: **GHR**
 Drawn by: **WRM**
 Date: **JUL 2021**

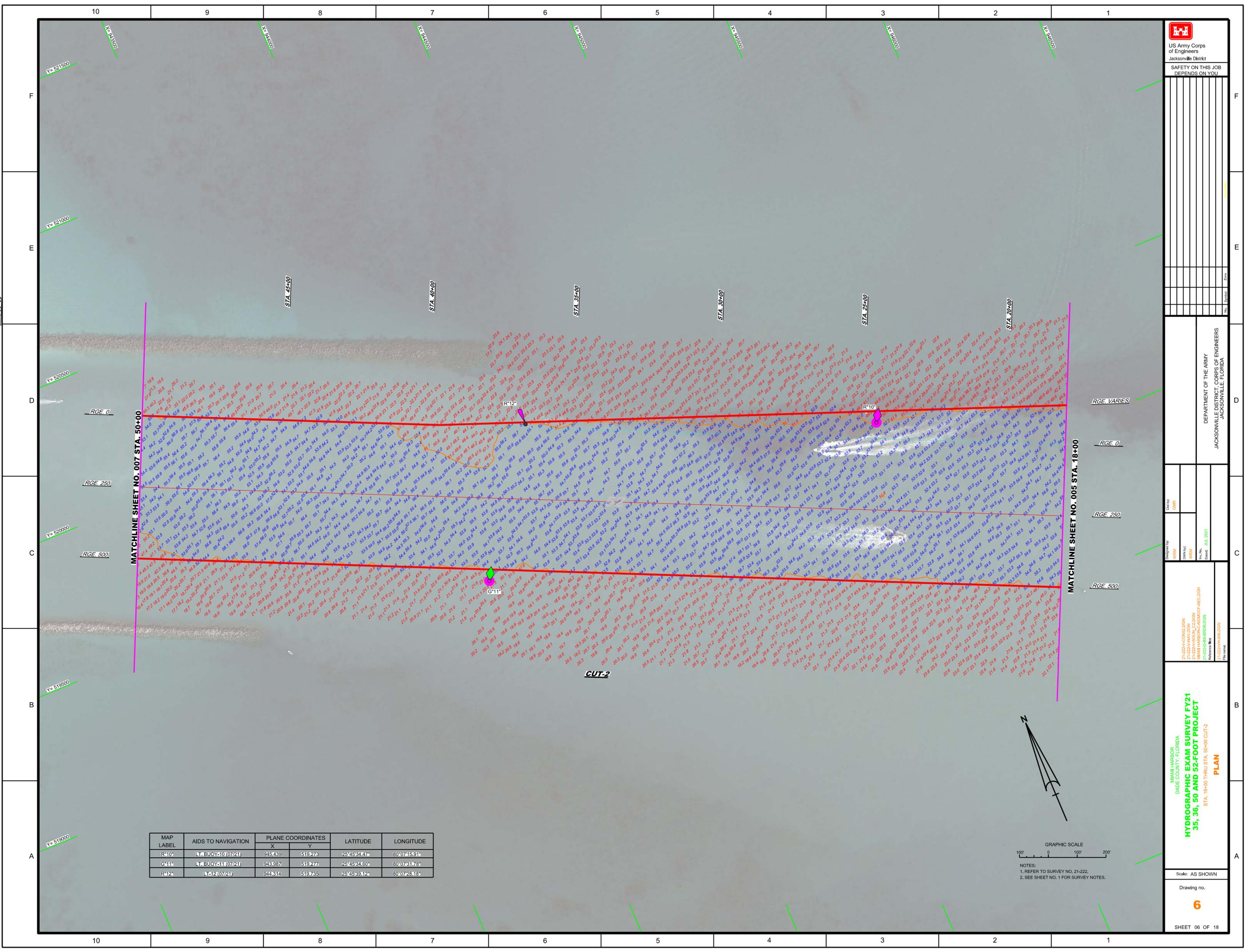
MAMI HARBOR
 DADE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY21
35, 36, 50 AND 52-FOOT PROJECT
 STA. 30+00 THRU STA. 58+00 CUT-1
PLAN

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R'2*	LT BUOY-2 (07/21)	953.116	520.376	25°45'44.88"	80°05'51.86"
G'3*	LT BUOY-3 (07/21)	953.386	519.872	25°45'39.87"	80°05'48.94"



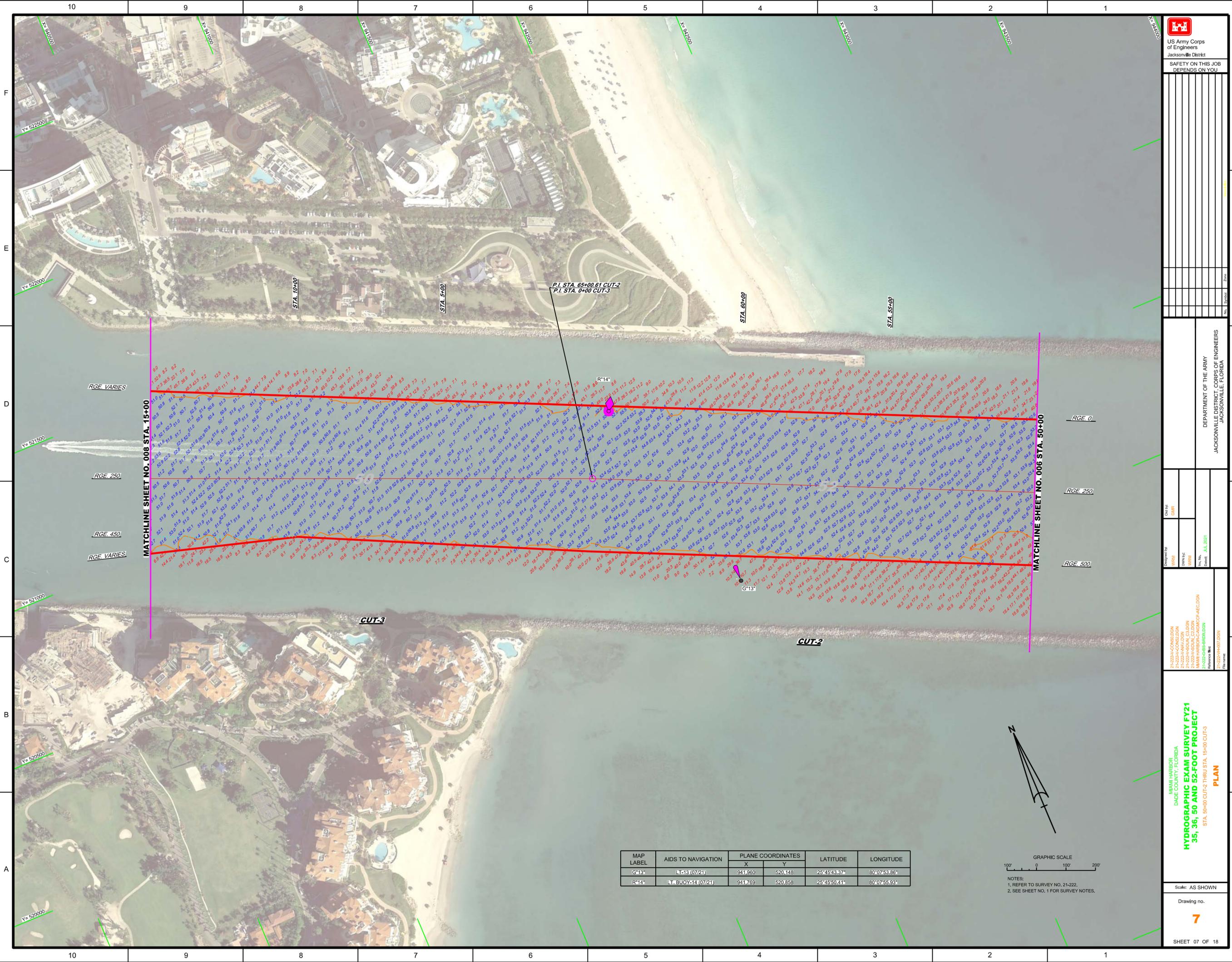
NOTES:
 1. REFER TO SURVEY NO. 21-222.
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Scale: AS SHOWN
 Drawing no. **3**
 SHEET 03 OF 18

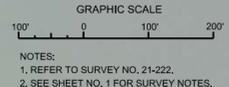


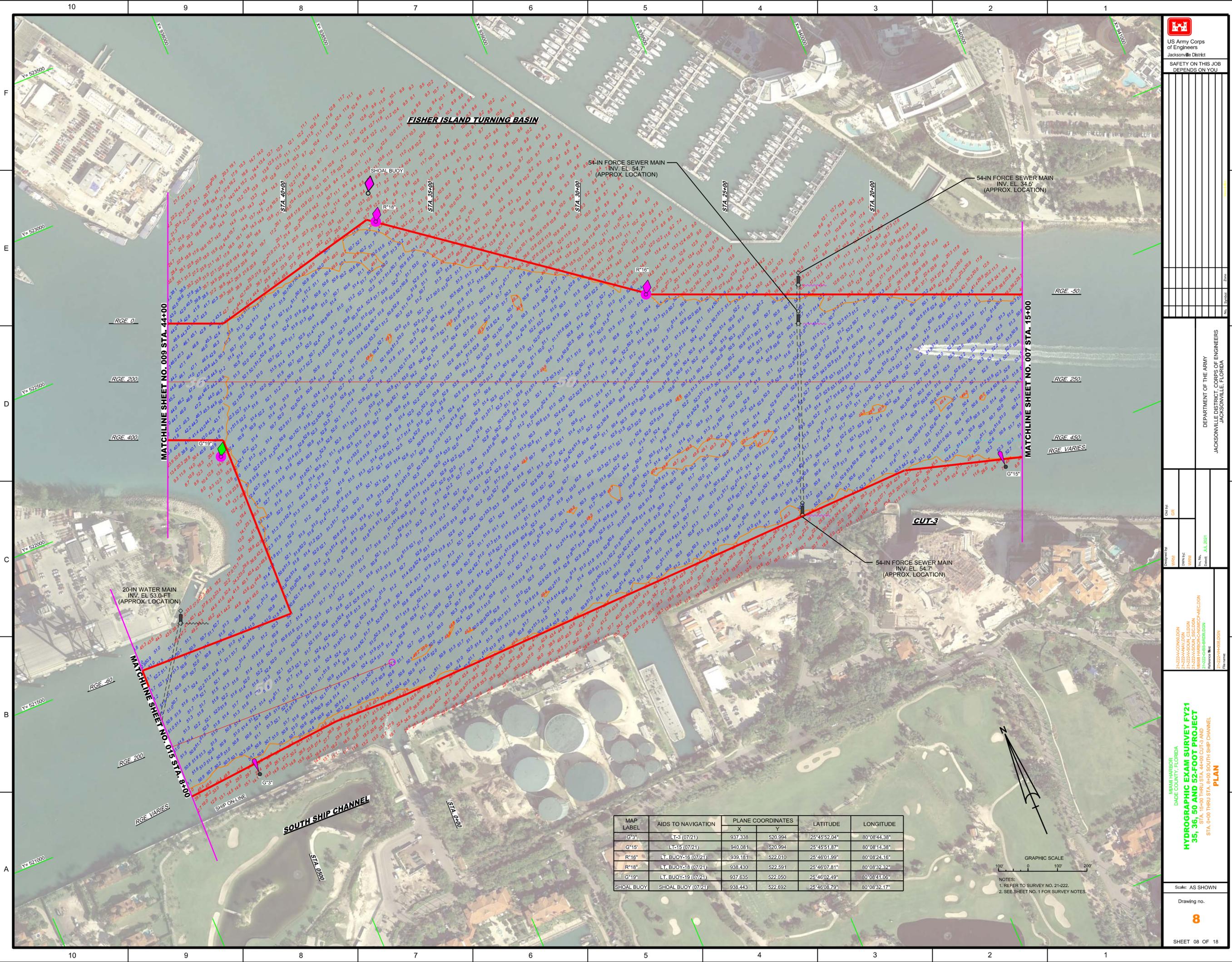
MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R10*	LT BUIOY10 (07/21)	945439	519273	25°45'34.47"	80°07'15.91"
G11*	LT BUIOY11 (07/21)	943987	519277	25°45'34.60"	80°07'31.78"
R12*	LT 52 (07/21)	944814	519785	25°45'39.12"	80°07'28.18"

GRAPHIC SCALE
0 100' 200'
NOTES:
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2. SEE SHEET NO. 1 FOR SURVEY NOTES.



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G-13*	13 (07/21)	941,860	520,148	25°45'43.37"	80°07'53.86"
R-14*	14 (07/21)	941,769	520,858	25°45'50.41"	80°07'55.93"





MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G*3	LT-3 (07/21)	937.338	520.994	25°45'52.04"	80°08'44.38"
G*15	LT-15 (07/21)	940.081	520.994	25°45'51.87"	80°08'44.38"
R*16	LT. BUOY-16 (07/21)	939.181	522.010	25°46'01.99"	80°08'24.16"
R*18	LT. BUOY-18 (07/21)	938.430	522.591	25°46'07.81"	80°08'32.32"
G*19	LT. BUOY-19 (07/21)	937.635	522.050	25°46'02.49"	80°08'41.06"
SHOAL BUOY	SHOAL BUOY (07/21)	938.443	522.692	25°46'08.79"	80°08'32.17"

GRAPHIC SCALE
100' 0 100' 200'

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JACKSONVILLE, FLORIDA

Checked By: GRL
Designed By: WRM
Drawn By: WRM
Reference Map: 21-222-CA-CON/CON
21-222-AA-VAY/CON
21-222-AA-SOJA_COLDN
21-222-CA-CAN/CAC/CAE/CON
21-222-CA-SB-SB/OLDN
Date: JUL 2021

MAMI HARBOR
DADE COUNTY, FLORIDA
HYDROGRAPHIC EXAM SURVEY FY21
35, 36, 50 AND 52-FOOT PROJECT
STA. 0+00 THRU STA. 44+00 CUT-3 AND
STA. 0+00 THRU STA. 8+00 SOUTH SHIP CHANNEL
PLAN

Scale: AS SHOWN

Drawing no.
8

SHEET 08 OF 18

