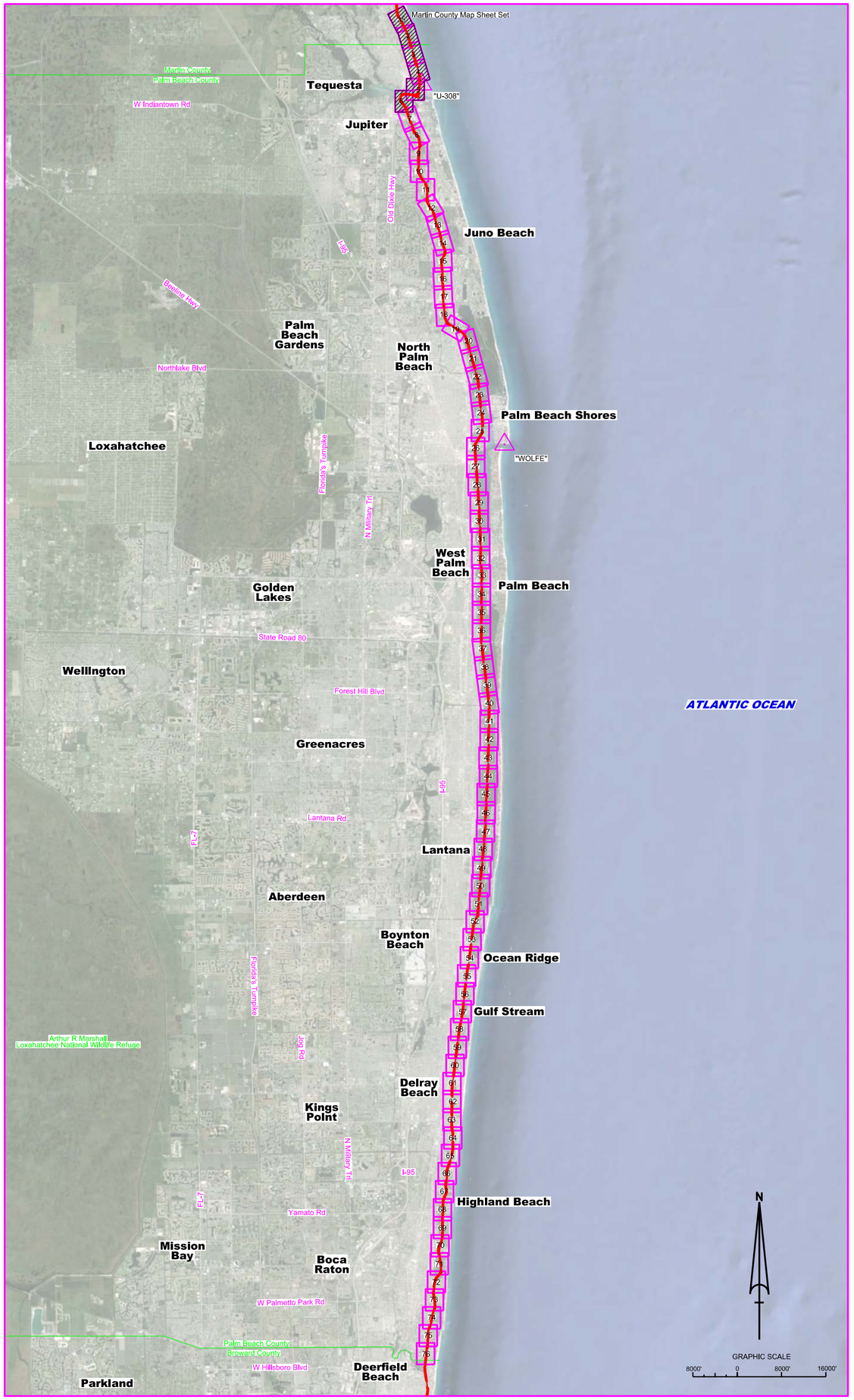
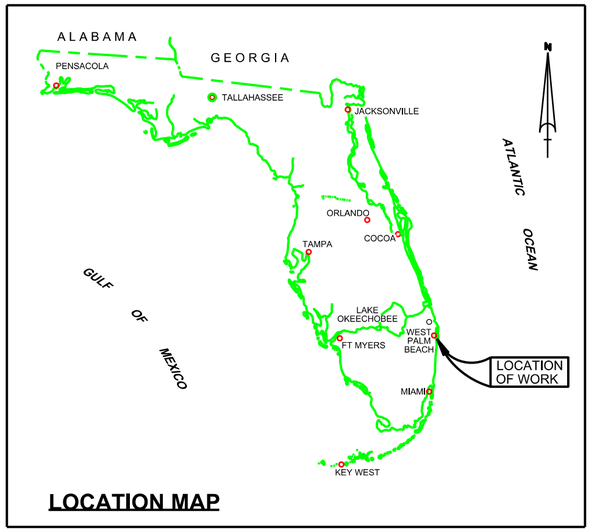




LOCATION MAP

IWW JACKSONVILLE TO MIAMI
MARTIN & PALM BEACH COUNTY, FLORIDA
CUT M-25 THRU CUT P-10
HYDROGRAPHIC EXAM SURVEY FY20
10-FOOT PROJECT

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

SURVEY NOTES

1. REFER TO SURVEY NO. 20-099.
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: "PALMBEACH-BROWARD_2018 05 03.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 "U-308" (PID: AD2996)
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 HEIGHT OF THE BENCHMARK SPECIFIED BELOW:

   NOAA TIDAL STATION "872-2491", JUPITER SOUND, SOUTH END, FL FOR ENTIRE PROJECT.

   VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 6205 COMBINED MULTI-BEAM AND SIDESCAN. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-48	27-28 JAN 2020	M-25, P-1 THRU P-10

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.

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
Designed by: WRM
DWN by: WRM
Inv. No. W912EP-XX-X-XXXX
Date: JAN 2020

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
IWW-C-NIGMCCF.DGN
20-099-CABS-BRDR_PB.DGN
Reference files:
20-099-VH-001_PB.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PALM BEACH COUNTY

HYDROGRAPHIC EXAM SURVEY FY20
10-FOOT PROJECT

INDEX, LOCATION AND VICINITY

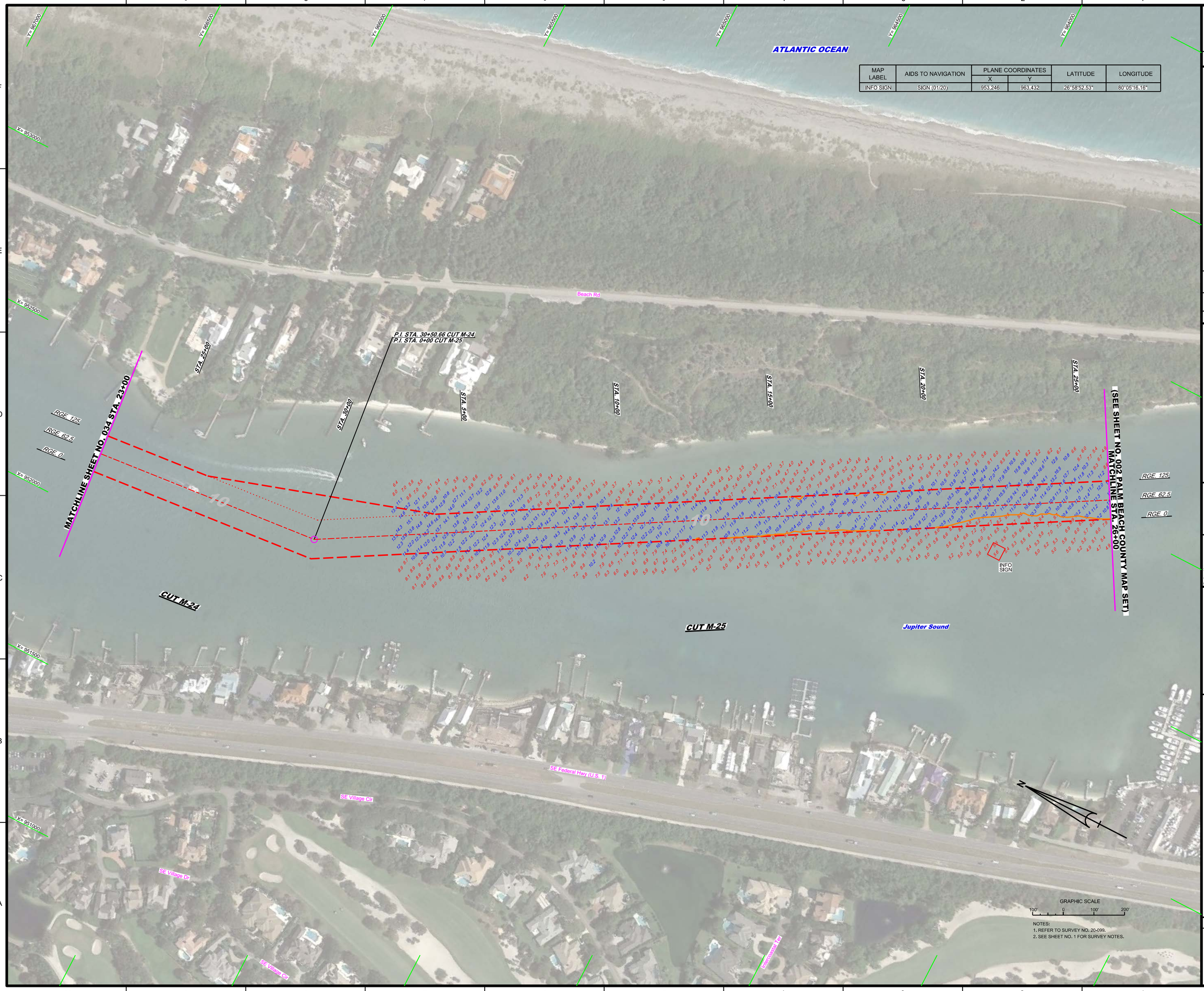
MAP

Scale: AS SHOWN

Drawing no.

1 / 7

SHEET 01 OF 76



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
INFO SIGN	SIGN (01/20)	953,246	963,432	26°58'52.53"	80°05'16.16"

NOTES:
1. REFER TO SURVEY NO. 20-099.
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: CMR
Rev. No.: V9123EP-XX-X-XXXX
Date: JAN 2020

I:\XXXXXXXX-X-XXXX-XX\
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
20-099-V-MAN.DGN
20-099-V-CONTROL.DGN
20-099-V-SOUN_MOS.DGN
NWW-CNG/MCCF.DGN
20-099-H-SBIDR_MAR.DGN
Reference files:
20-099-VH035_MAR.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
MARTIN COUNTY

HYDROGRAPHIC EXAM SURVEY FY20
10-FOOT PROJECT

STA. 23+00 CUT M-24 THRU STA. 26+00 CUT M-25

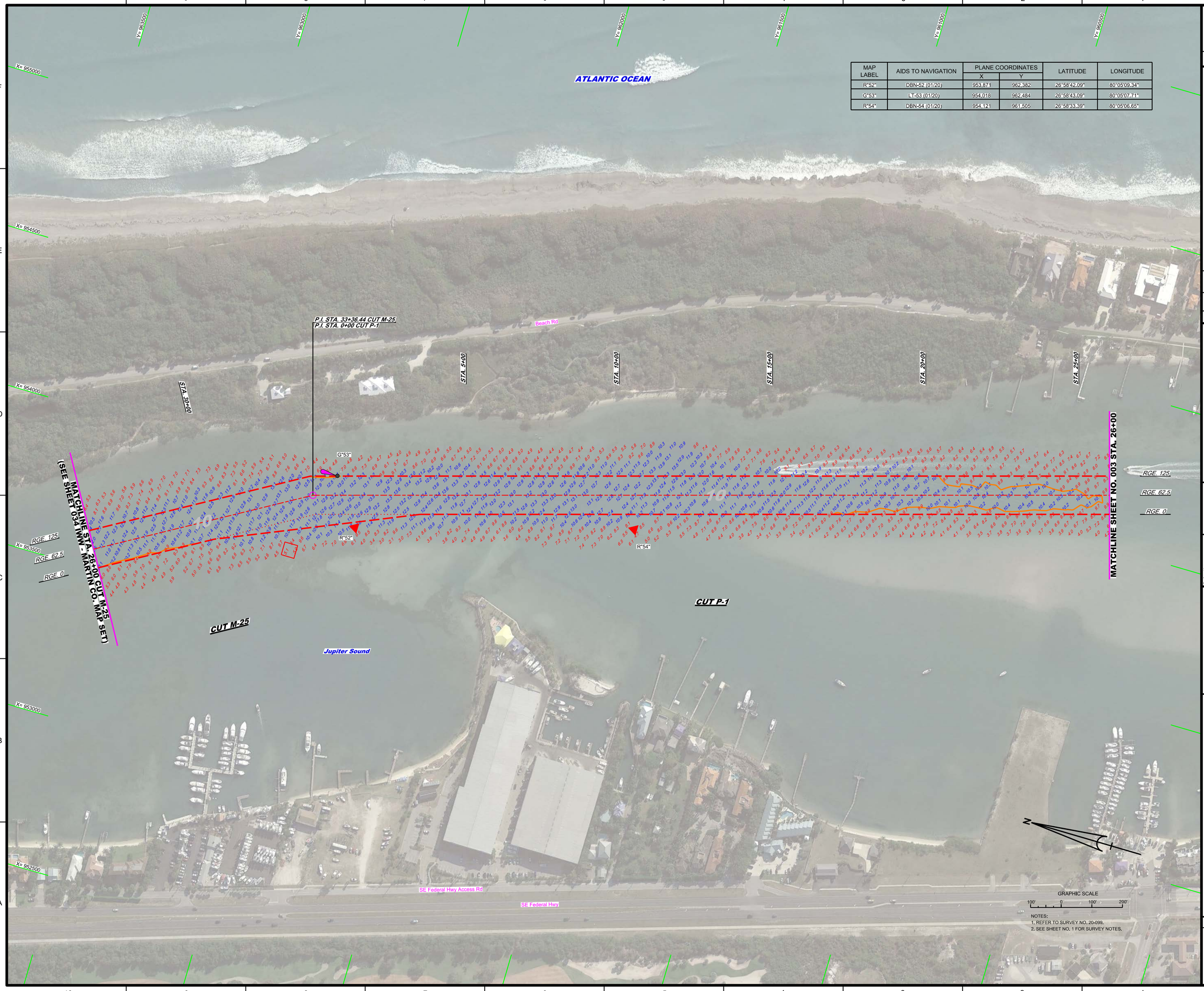
PLAN

Scale: AS SHOWN

Drawing no.

2 / 7

SHEET 35 OF 36



NOTES:
1. REFER TO SURVEY NO. 20-099.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"52"	DBN-52 (01/20)	953,871	962,382	26°58'42.09"	80°05'09.34"
G"53"	LT-53 (01/20)	954,018	962,484	26°58'43.09"	80°05'07.71"
R"54"	DBN-54 (01/20)	954,121	961,505	26°58'33.39"	80°05'06.65"

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: CMR
Rev. No. W912EP-XX-X-XXXX
Date: JAN 2020

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
20-099-NAVIGATION.DGN
20-099A-CONTOUR.DGN
20-099A-SURVEY.DGN
20-099A-SOUN_P1.DGN
IWW-C-NGMCCF.DGN
20-099-H-BS-BRDR_PB.DGN
Reference files:
20-099-VH-002_PB.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PALM BEACH COUNTY

HYDROGRAPHIC EXAM SURVEY FY20
10-FOOT PROJECT

STA. 26+00 CUT M-25 THRU STA. 26+00 CUT P-1

PLAN

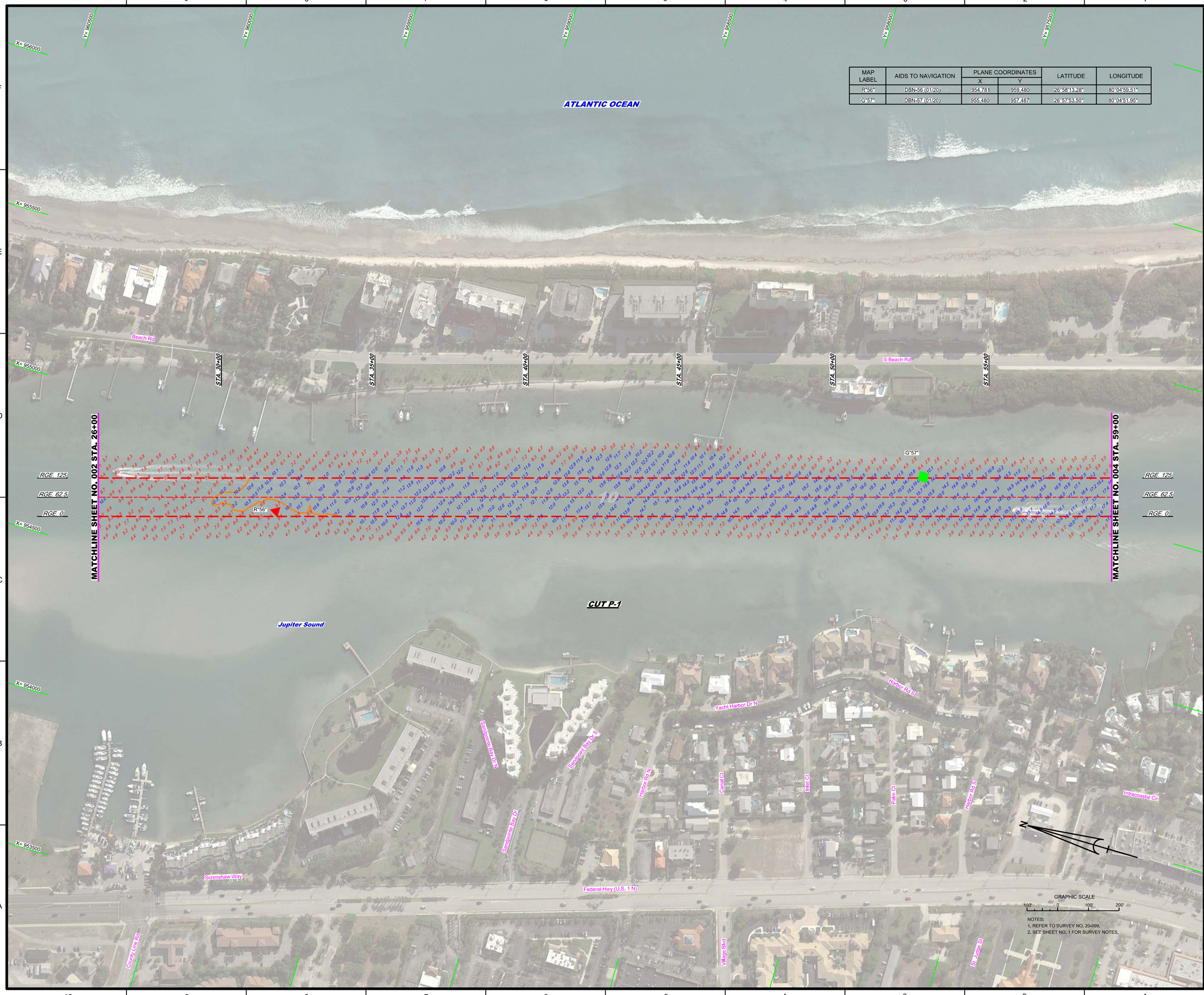
Scale: AS SHOWN

Drawing no.

3 / 7

SHEET 02 OF 76

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"56"	DBN-56 (01/20)	954,781	959,480	26°58'13.28"	80°04'59.51"
G"57"	DBN-57 (01/20)	955,480	957,487	26°57'53.50"	80°04'51.95"



NOTES:
1. REFER TO SURVEY NO. 20-099.
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: GMR
Designed by: VIRM
DWN by: VIRM
Rev. No. V01FSF>XX>X>XXXX
Dated: JAN 2020

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
20-099-NAV.DGN
20-099-VHD01_PB.DGN
20-099-SOUN_P1.DGN
IWW-CA-NGMCCF.DGN
20-099-CA-BSHDR_PB.DGN
Reference files:
20-099-VH001_PB.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PALM BEACH COUNTY

HYDROGRAPHIC EXAM SURVEY FY20
10-FOOT PROJECT

STA. 26+00 THRU STA. 59+00 CUT P-1

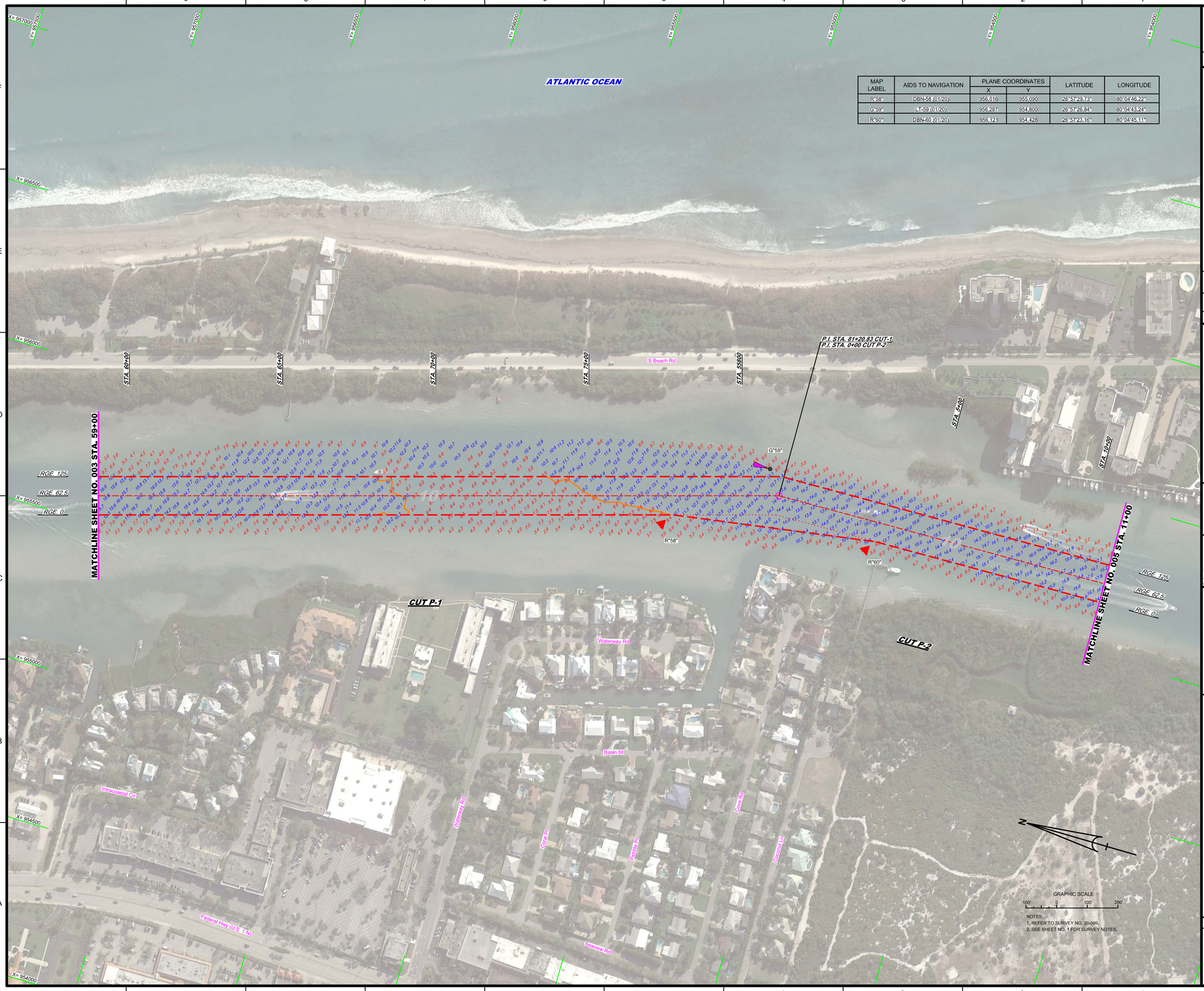
PLAN

Scale: AS SHOWN

Drawing no.

4 / 7

SHEET 03 OF 76



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"58"	DBN-58 (01/20)	956,016	955,090	26°57'29.73"	80°04'46.22"
G"59"	LT-59 (01/20)	956,287	954,800	26°57'26.84"	80°04'43.24"
R"60"	DBN-60 (01/20)	956,121	954,428	26°57'23.16"	80°04'45.11"

NOTES:
1. REFER TO SURVEY NO. 20-099.
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: JAN 2020

X:\V912EP-XX-XX-XXXX\20-099\HAV\20-099-HAV.DGN
X:\V912EP-XX-XX-XXXX\20-099\CON\20-099-CON10.DGN
X:\V912EP-XX-XX-XXXX\20-099\SOUN_F\20-099-SOUN_F.DGN
IWW-C-CNGMCF.DGN
20-099-C-BR-BRDR_PB.DGN
Reference files
20-099-VR-004_PB.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PALM BEACH COUNTY

HYDROGRAPHIC EXAM SURVEY FY20
10-FOOT PROJECT

STA. 59+00 CUT P-1 THRU STA. 11+00 CUT P-2

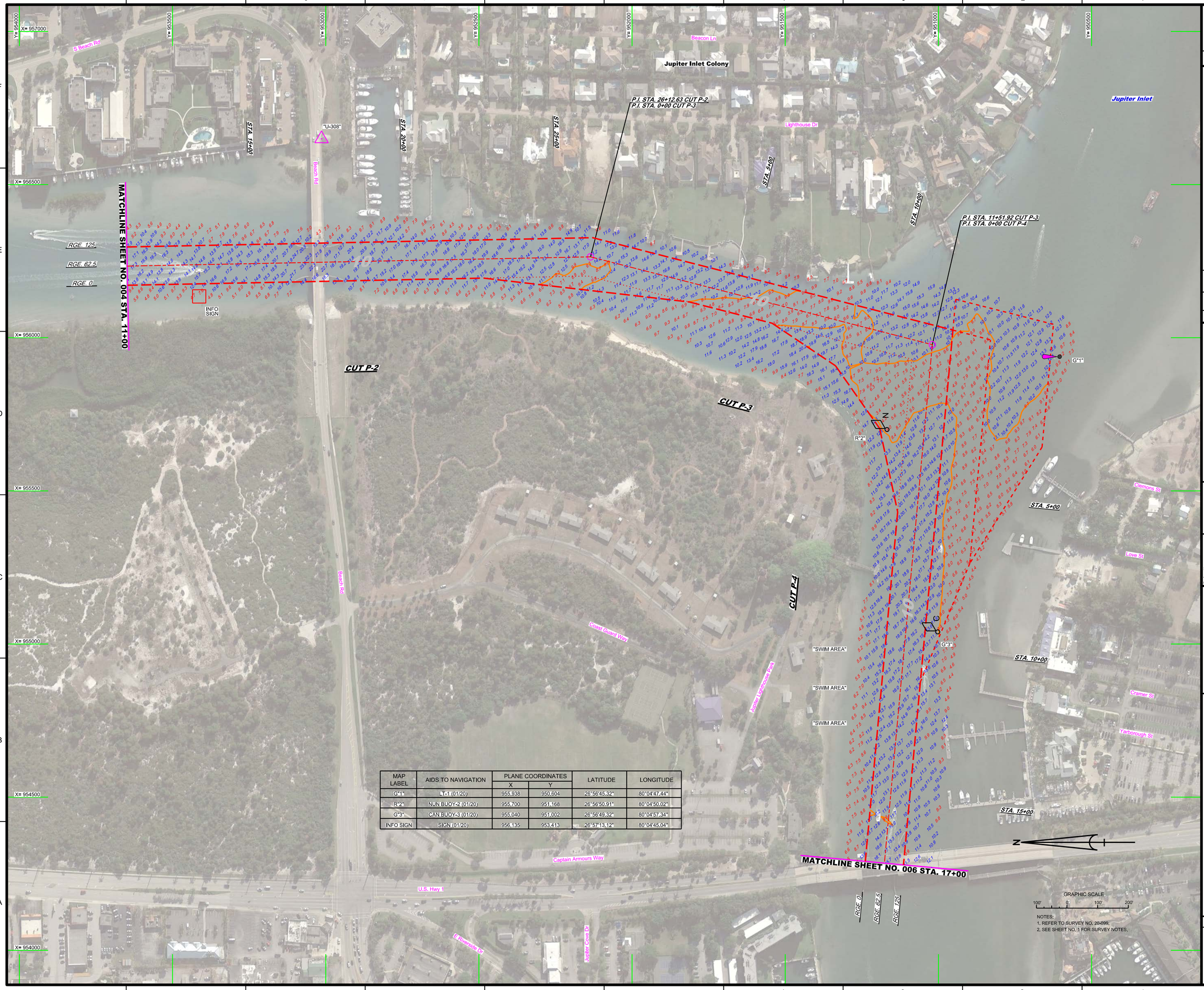
PLAN

Scale: AS SHOWN

Drawing no.

5 / 7

SHEET 04 OF 76



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"1"	LT-1 (01/20)	955,938	950,604	26°56'45.32"	80°04'47.44"
R"2"	NUN BUOY-2 (01/20)	955,700	951,168	26°56'50.91"	80°04'50.02"
G"3"	CAN BUOY-3 (01/20)	955,040	951,002	26°56'49.32"	80°04'57.34"
INFO SIGN	SIGN (01/20)	956,135	953,413	26°57'13.12"	80°04'45.04"

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. V9123EP-XX-X-XXXX
Date: JAN 2020

20-099-V-NAV.DGN
20-099-V-CONTOUR.DGN
20-099-V-SOUN_P2.DGN
20-099-V-SOUN_P3.DGN
20-099-V-SOUN_P4.DGN
20-099-V-SOUN_PB.DGN
WWW-CNGWCCF.DGN
20-099-CES-SHDR_PB.DGN
Reference files:
20-099-VH-005_PB.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PALM BEACH COUNTY

HYDROGRAPHIC EXAM SURVEY FY20
10-FOOT PROJECT

STA. 11+00 CUT P-2 THRU STA. 17+00 CUT P-4

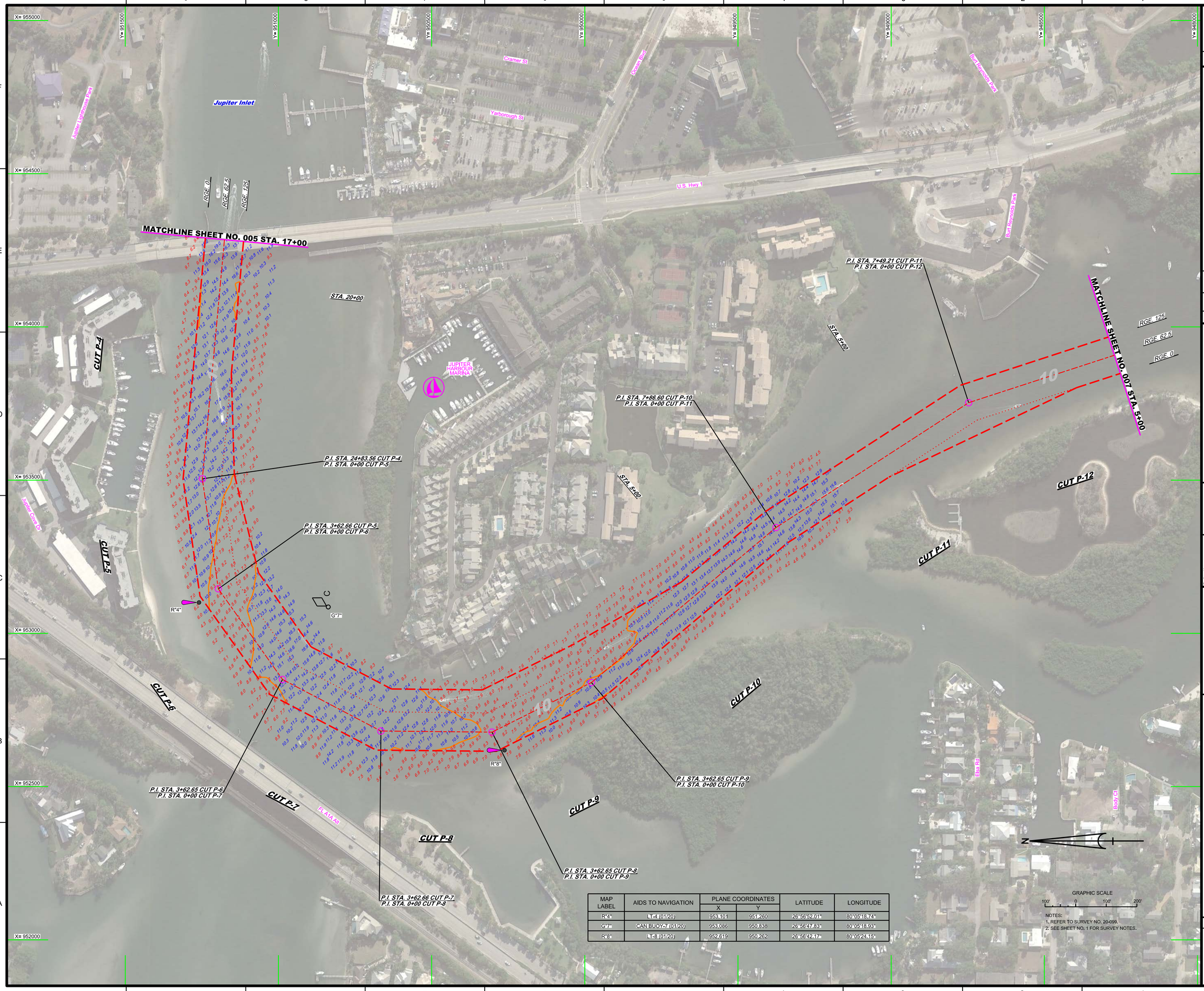
PLAN

Scale: AS SHOWN

Drawing no.

6 / 7

SHEET 05 OF 76



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"4"	LT-4 (01/20)	953,101	951,260	26°56'52.01"	80°05'18.74"
G"7"	CAN BUOY-7 (01/20)	953,086	950,838	26°56'47.83"	80°05'18.93"
R"8"	LT-8 (01/20)	952,619	950,262	26°56'42.17"	80°05'24.15"

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 20-099.
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. W912EP-XX-X-XXXX
Date: JAN 2020

XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
20-099-NAV.DGN
20-099-SOUN_PROFILE.DGN
20-099-NAV-SOUN_PROFILE.DGN
IWW-C-NGMCCF.DGN
20-099-X-BS-BRDR_PB.DGN
Reference files:
20-099-VH-036_PB.DGN
File name:

INTRACOASTAL WATERWAY
JACKSONVILLE TO MIAMI, FLORIDA
PALM BEACH COUNTY

HYDROGRAPHIC EXAM SURVEY FY20
10-FOOT PROJECT

STA. 17+00 CUT P-4 THRU STA. 5+00 CUT P-12

PLAN

Scale: AS SHOWN

Drawing no.

7 / 7

SHEET 06 OF 76