

SHEET INDEX

# ST. JOHNS RIVER JACKSONVILLE TO GREEN COVE SPRINGS, FL DUVAL, CLAY AND ST. JOHNS COUNTIES HYDROGRAPHIC EXAM SURVEY FY11 13-FOOT PROJECT



LOCATION MAP

LEGEND	
• BM	BENCHMARK
⚓	LIGHTED BEACON
□	GREEN DAYBEACON
△	RED DAYBEACON
⊕	RED LIGHTED BUOY
⊕	GREEN LIGHTED BUOY
⊕	CAN BUOY
⊕	NUN BUOY
⊕	TIDE STAFF
8	PROJECT DEPTH

**SURVEY NOTES**

- REFER TO SURVEY NO. 11-181.
  - SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
  - 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 AZIMUTHS ARE GRID; RECKONED CLOCKWISE FROM SOUTH.
  - THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:  
REFERENCE BASE LOCATED AT "0242 A 1895"  
PID: BBB231  
REFERENCE BASE LOCATED AT 872 0503 C"  
PID: DE8889
  - 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 GAUGE SITES SPECIFIED BELOW:  
NOAA TIDAL STATION 872-0242 USED FOR JAX TO GCS CENTERLINE (PID: BBB231)  
NOAA TIDAL STATION 872-0486 USED FOR PIER-1 (PID: AQ1562)
  - VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMARTSOUNDER DUAL-FREQUENCY 282000 KHZ SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.
- | VESSEL | DATE OF SURVEY | CUT                   |
|--------|----------------|-----------------------|
| WB-32  | 03 NOV 2011    | PIER-1                |
| WB-32  | 04 NOV 2011    | JAX TO GCS CENTERLINE |
- 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 AND IS NOT TO BE USED FOR NAVIGATION.
  - 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, 1 JAN 02.

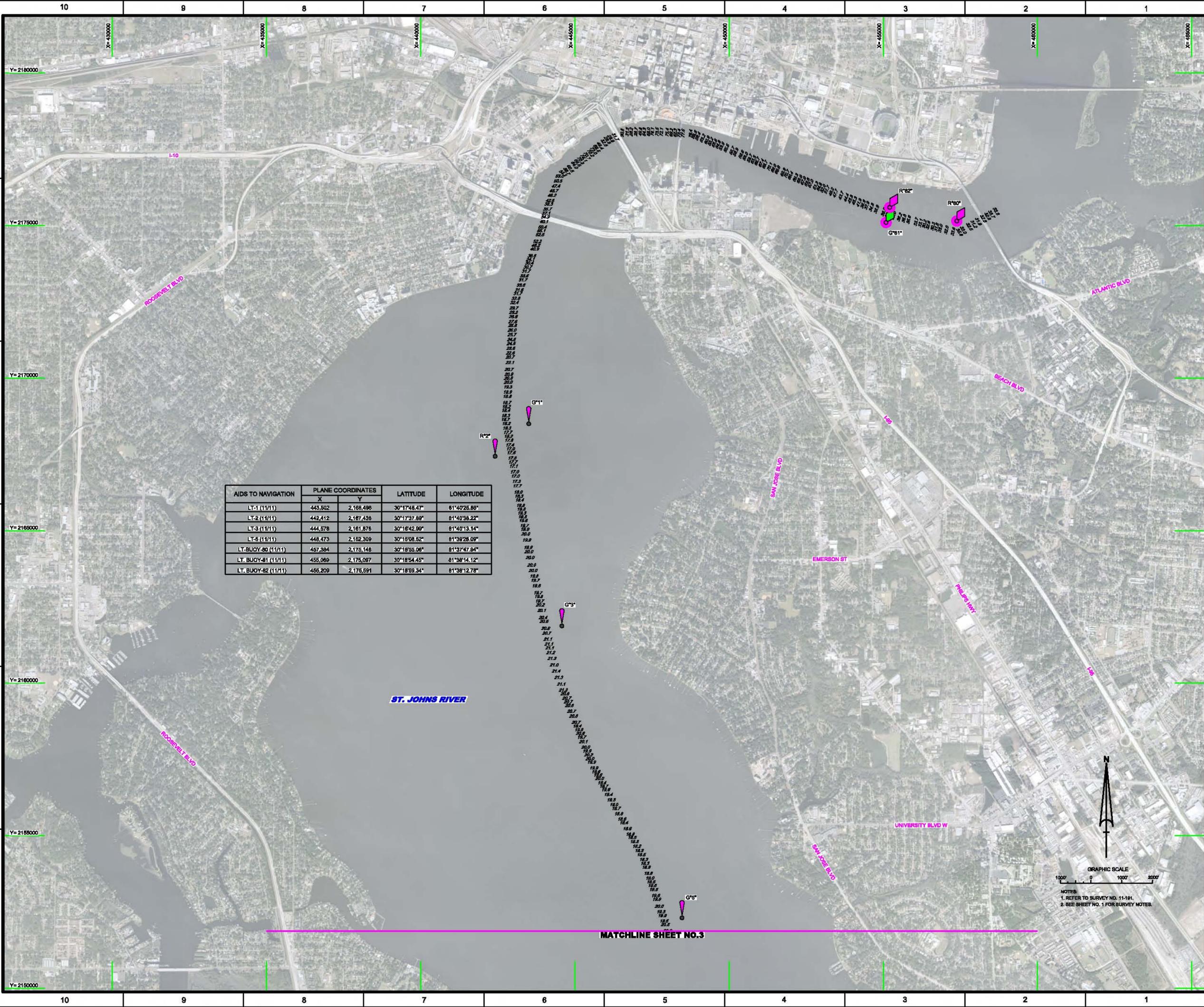
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Jacksonville District  
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Checked by	DVT
Designed by	WPM
Drawn by	WPM
File No.	11-181-13-FOOT
Check	DD MM YY

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

ST. JOHNS RIVER  
DUVAL, ST. JOHNS & CLAY COUNTIES, FLORIDA  
HYDROGRAPHIC SURVEY FY11  
13-FOOT PROJECT  
INDEX, LOCATION & VICINITY  
MAP

Scale: AS SHOWN  
Drawing no.  
**1/8**  
SHEET 01 OF 08



AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-1 (11/11)	443,502	2,168,498	30°17'48.47"	81°40'26.88"
LT-2 (11/11)	442,412	2,167,438	30°17'37.89"	81°40'36.22"
LT-3 (11/11)	444,578	2,161,876	30°16'42.99"	81°40'13.14"
LT-5 (11/11)	448,473	2,162,309	30°16'08.52"	81°39'28.09"
LT-BUOY-80 (11/11)	457,384	2,175,148	30°18'55.06"	81°37'47.84"
LT-BUOY-81 (11/11)	455,089	2,175,087	30°18'54.45"	81°38'14.12"
LT-BUOY-82 (11/11)	456,209	2,176,591	30°18'59.34"	81°38'12.78"

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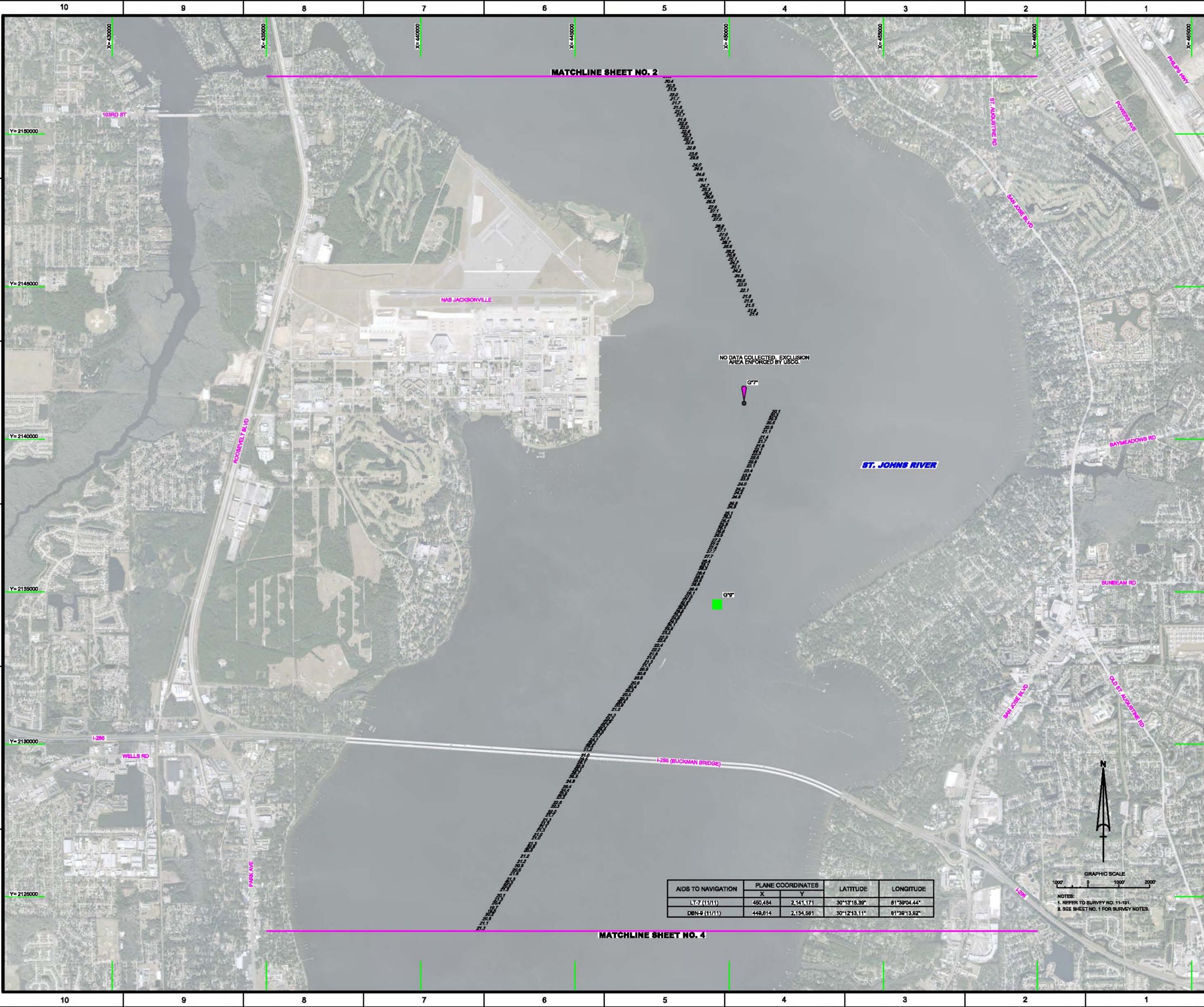
**ST. JOHNS RIVER  
HYDROGRAPHIC SURVEY FY11  
13-FOOT PROJECT  
PLAN**

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Scale: AS SHOWN

Drawing no.  
**2/8**

SHEET 02 OF 08

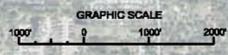


MATCHLINE SHEET NO. 2

MATCHLINE SHEET NO. 4

NO DATA COLLECTED. EXCLUSION AREA ENFORCED BY USCG.

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-7 (11/11)	480,484	2,141,171	30°13'18.39"	81°39'04.44"
DBN-9 (11/11)	448,614	2,134,581	30°12'13.11"	81°38'13.92"



NOTES:  
 1. REFER TO SURVEY NO. 11-191.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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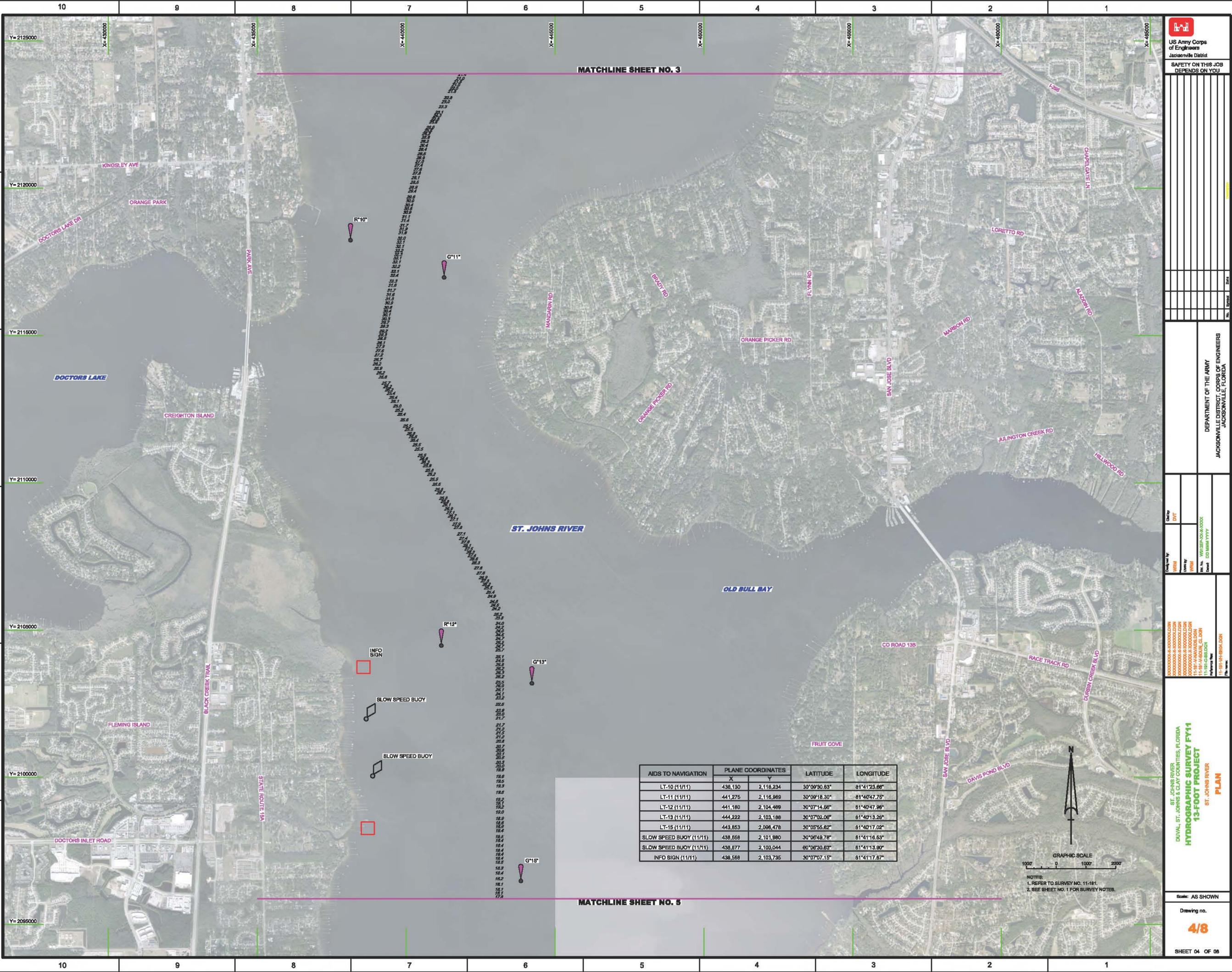
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**ST. JOHNS RIVER  
 DIVISION, ST. JOHNS & CLAY COUNTIES, FLORIDA  
 HYDROGRAPHIC SURVEY FY11  
 13-FOOT PROJECT  
 ST. JOHNS RIVER  
 PLAN**

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Scale: AS SHOWN  
 Drawing no.  
**3/8**

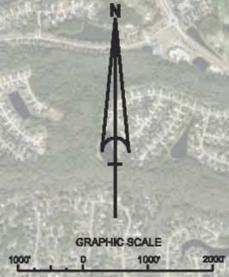
SHEET 03 OF 08



MATCHLINE SHEET NO. 3

MATCHLINE SHEET NO. 5

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
LT-10 (11/11)	438,130	2,118,234	30°09'30.83"	81°41'23.86"
LT-11 (11/11)	441,275	2,116,989	30°09'18.30"	81°40'47.75"
LT-12 (11/11)	441,180	2,104,489	30°07'14.66"	81°40'47.96"
LT-13 (11/11)	444,222	2,103,188	30°07'02.06"	81°40'13.28"
LT-15 (11/11)	443,853	2,096,476	30°05'55.62"	81°40'17.02"
SLOW SPEED BUOY (11/11)	438,858	2,101,880	30°06'49.78"	81°41'16.63"
SLOW SPEED BUOY (11/11)	438,877	2,100,044	30°06'30.63"	81°41'13.90"
INFO SIGN (11/11)	438,568	2,103,735	30°07'07.15"	81°41'17.67"



NOTES:  
1. REFER TO SURVEY NO. 11-181.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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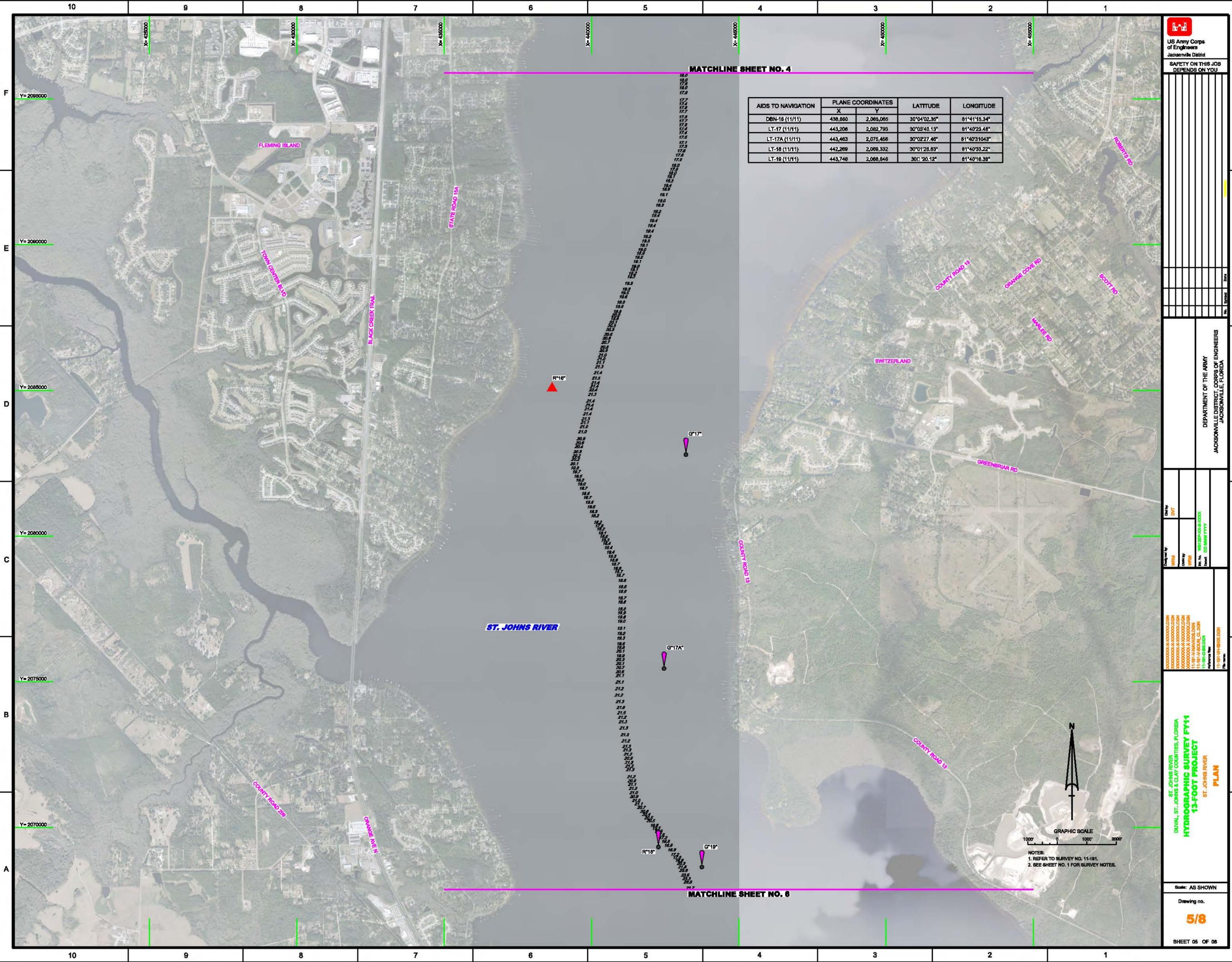
**ST. JOHNS RIVER**  
DUVAL, ST. JOHNS & CLAY COUNTIES, FLORIDA  
**HYDROGRAPHIC SURVEY FY11**  
**13-FOOT PROJECT**  
**ST. JOHNS RIVER**  
**PLAN**

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Scale: AS SHOWN

Drawing no.  
**4/8**

SHEET 04 OF 08



MATCHLINE SHEET NO. 4

AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
DBN-16 (11/11)	438,880	2,085,065	30°04'02.35"	81°41'15.34"
LT-17 (11/11)	443,206	2,082,793	30°03'40.13"	81°40'23.48"
LT-17A (11/11)	443,463	2,075,466	30°02'27.46"	81°40'31043"
LT-18 (11/11)	442,288	2,088,332	30°01'28.83"	81°40'33.22"
LT-18 (11/11)	443,746	2,088,848	30°02'0.12"	81°40'16.38"



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**HYDROGRAPHIC SURVEY FY11**  
**13-FOOT PROJECT**  
ST. JOHNS RIVER  
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