

# PONCE DE LEON INLET VOLUSIA COUNTY, FLORIDA HYDRO EXAMINATION SURVEY FY16 7, 12 AND 15-FOOT PROJECT



US Army Corps of Engineers  
Jacksonville District  
SAFETY ON THIS JOB  
DEPENDS ON YOU

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

Check By: GMR  
Designed By: WRM  
Drawn By: WRM  
File No: W-15-HR-01-DGN  
Date: JUL 2016

16-15-HR-01-DGN  
16-15-HR-02-DGN  
16-15-HR-03-DGN  
16-15-HR-04-DGN  
16-15-HR-05-DGN  
16-15-HR-06-DGN  
16-15-HR-07-DGN  
16-15-HR-08-DGN  
16-15-HR-09-DGN  
16-15-HR-10-DGN  
16-15-HR-11-DGN  
16-15-HR-12-DGN  
16-15-HR-13-DGN  
16-15-HR-14-DGN  
16-15-HR-15-DGN  
16-15-HR-16-DGN  
16-15-HR-17-DGN  
16-15-HR-18-DGN  
16-15-HR-19-DGN  
16-15-HR-20-DGN  
16-15-HR-21-DGN  
16-15-HR-22-DGN  
16-15-HR-23-DGN  
16-15-HR-24-DGN  
16-15-HR-25-DGN  
16-15-HR-26-DGN  
16-15-HR-27-DGN  
16-15-HR-28-DGN  
16-15-HR-29-DGN  
16-15-HR-30-DGN  
16-15-HR-31-DGN  
16-15-HR-32-DGN  
16-15-HR-33-DGN  
16-15-HR-34-DGN  
16-15-HR-35-DGN  
16-15-HR-36-DGN  
16-15-HR-37-DGN  
16-15-HR-38-DGN  
16-15-HR-39-DGN  
16-15-HR-40-DGN  
16-15-HR-41-DGN  
16-15-HR-42-DGN  
16-15-HR-43-DGN  
16-15-HR-44-DGN  
16-15-HR-45-DGN  
16-15-HR-46-DGN  
16-15-HR-47-DGN  
16-15-HR-48-DGN  
16-15-HR-49-DGN  
16-15-HR-50-DGN

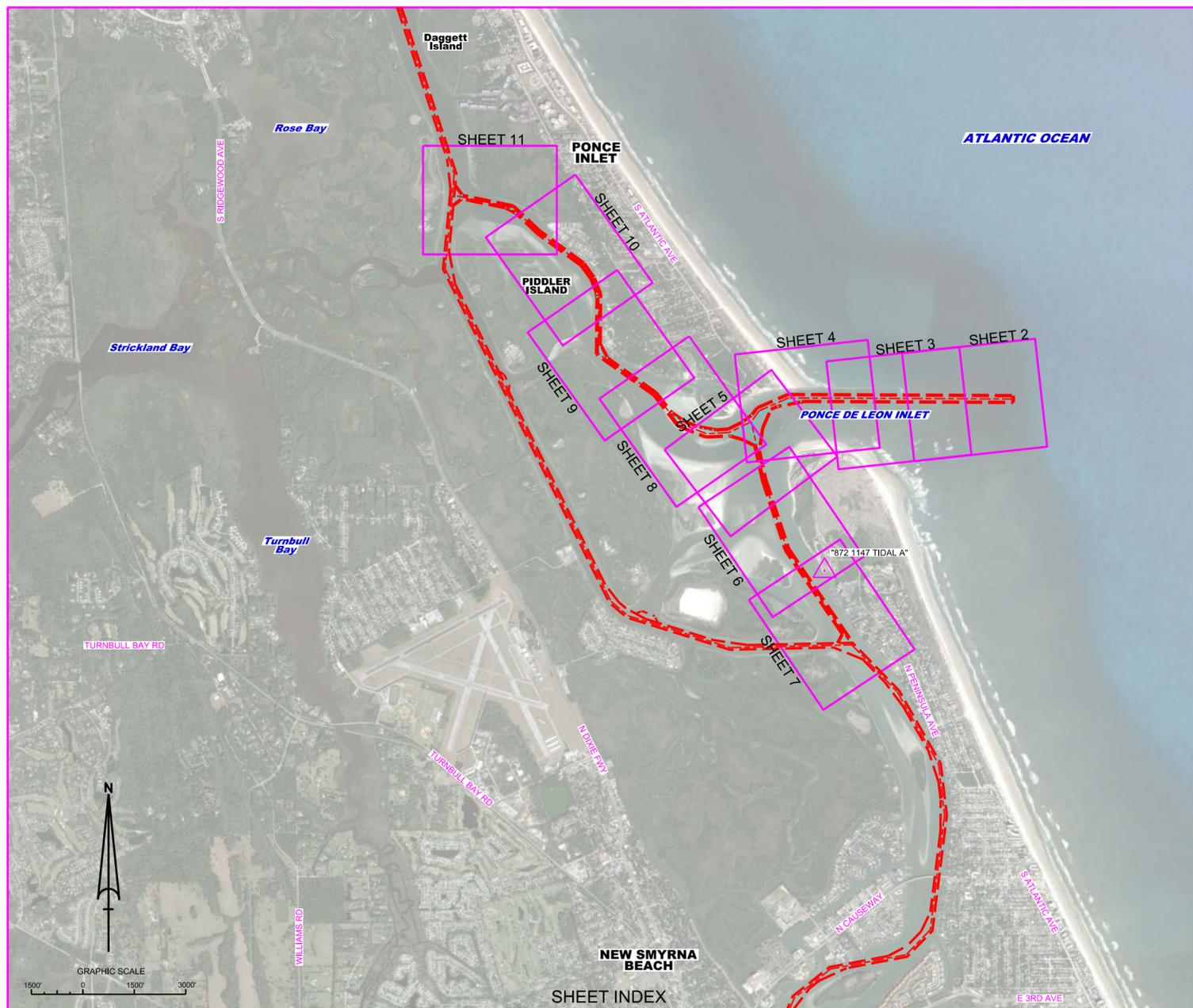
**HYDRO EXAMINATION SURVEY FY16  
7, 12 AND 15-FOOT PROJECT  
INDEX, LOCATION AND VICINITY  
MAP**

Scale: AS SHOWN  
Drawing no. **1**  
SHEET 01 OF 11

**SURVEY NOTES**

- REFER TO SURVEY NO. 16-151.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW. KTD FILE NAME IS: "VOLUSIA-BREVARD (W-O\_CANAVERALHBR\_2016 05 06.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 (NAD83).
- ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
- THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:  
REFERENCE BASE LOCATED AT "872 1147 TIDAL A" (OPUS PID: DK6692)  
TIDE STAFF LOCATED FROM "872 1147 TIDAL 1" (NGS PID: AQ1522)  
TIDE STAFF LOCATED FROM "872 1138 TIDAL B" FOR QA CHECK (NGS PID: DM3649)
- 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 SITES SPECIFIED BELOW:  
NOAA TIDAL STATION 872-1147 TIDAL A (OPUS PID: DK6692) FOR ALL CUTS.  
NOAA TIDAL STATION 872-1138 FOR QA CHECK (NGS PID: DM3649)  
  
VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER MODEL 835 WITH A DUAL-FREQUENCY 28/200 KHZ SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.  
  

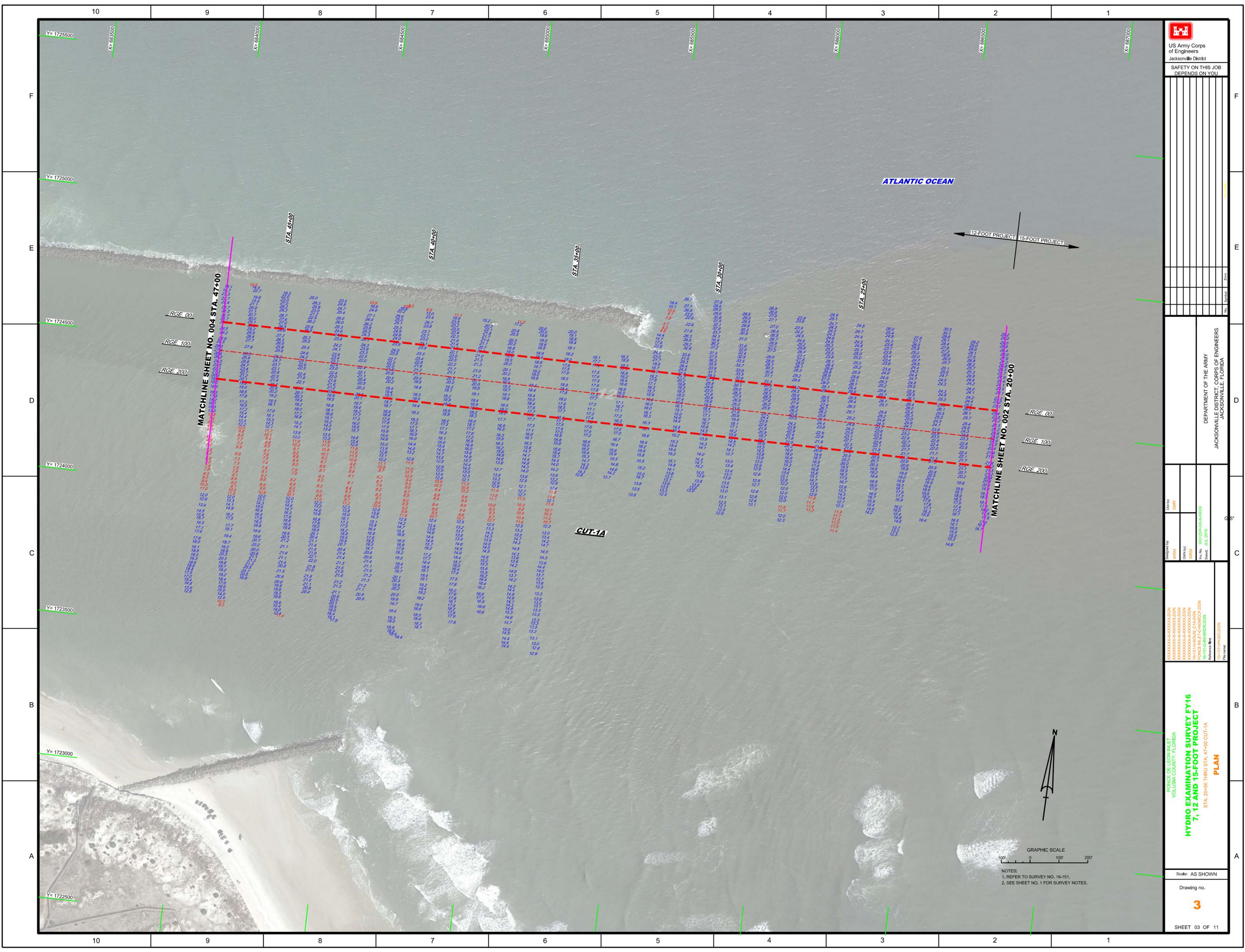
VESSEL	DATE OF SURVEY	CUT
SB-36	19 JUL 2016	2S, 3S, 7N
SB-36	20 JUL 2016	1A, 1S, 2A, 3A, 3N, 4N, 12N, 13N
SB-36	21 JUL 2016	1A, 7N, 9N, 10N, 11N
SB-36	22 JUL 2016	5N, 6N, 8N
- AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS 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. 2013.



**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  
 JACKSONVILLE, FLORIDA

---

Checked By: GHR  
 Drawn By: WRM  
 Date: JUL 2016

---

Ponce de Leon Inlet  
 Volusia County, Florida  
**HYDRO EXAMINATION SURVEY FY16**  
**7, 12 AND 15-FOOT PROJECT**  
 STA. 20+00 THRU STA. 47+00 CUT-1A  
**PLAN**

---

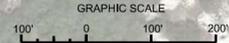
Scale: AS SHOWN  
 Drawing no. **3**  
 SHEET 03 OF 11

GRAPHIC SCALE  
 0 100 200  
 NOTES:  
 1. REFER TO SURVEY NO. 16-151.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.





AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
CAN BUOY-7B (07/16)	681.680	1,723.047	29°04'24.83"	80°55'12.45"
NUN BUOY-8B (07/16)	681.260	1,723.181	29°04'25.36"	80°55'17.18"
L.T. BUOY-9 (07/16)	681.600	1,721.817	29°04'13.25"	80°55'13.36"
NUN BUOY-10 (07/16)	681.346	1,721.660	29°04'11.10"	80°55'18.23"
SIGN (07/16)	680.291	1,723.134	29°04'25.70"	80°55'28.11"



NOTES:  
 1. REFER TO SURVEY NO. 16-151.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.



US Army Corps of Engineers  
 Jacksonville District  
 SAFETY ON THIS JOB  
 DEPENDS ON YOU

---

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

---

Checked By: GHR  
 Designed By: WRM  
 Drawn By: WRM  
 File No.: 16-151-HYDRO-000  
 Date: JULY 2016

---

16-151-HYDRO-000-000  
 16-151-HYDRO-000-001  
 16-151-HYDRO-000-002  
 16-151-HYDRO-000-003  
 16-151-HYDRO-000-004  
 16-151-HYDRO-000-005  
 16-151-HYDRO-000-006  
 16-151-HYDRO-000-007  
 16-151-HYDRO-000-008  
 16-151-HYDRO-000-009  
 16-151-HYDRO-000-010

---

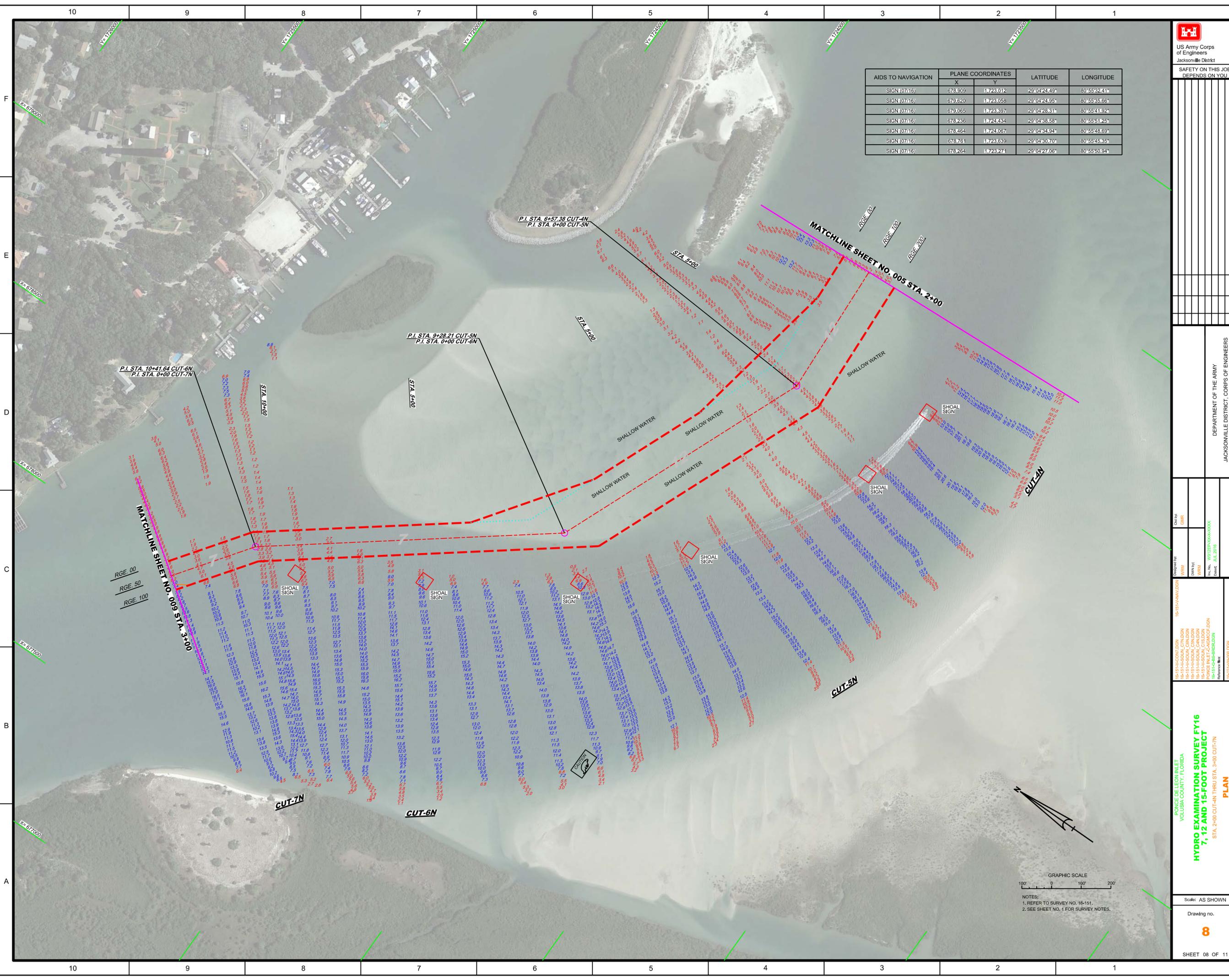
**HYDRO EXAMINATION SURVEY FY16**  
**7, 12 AND 15-FOOT PROJECT**  
 STA. 6+00 CUT-2A THRU STA. 2+00 CUT-4N &  
 STA. 0+00 CUT-15 THRU STA. 4+00 CUT-25  
**PLAN**

---

Scale: AS SHOWN  
 Drawing no.  
**5**  
 SHEET 05 OF 11







AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
	X	Y		
SIGN (0716)	678.909	17231012	29°04'24.95"	80°55'32.41"
SIGN (0716)	679.020	17231055	29°04'24.95"	80°55'35.60"
SIGN (0716)	679.065	17231397	29°04'28.31"	80°55'41.92"
SIGN (0716)	678.286	17242434	29°04'38.55"	80°55'51.25"
SIGN (0716)	678.484	17241067	29°04'34.94"	80°55'48.69"
SIGN (0716)	678.761	17231639	29°04'30.70"	80°55'45.35"
SIGN (0716)	678.254	17231274	29°04'27.05"	80°55'50.94"



US Army Corps of Engineers  
Jacksonville District

**SAFETY ON THIS JOB DEPENDS ON YOU**

---

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

---

Checked by: GHR  
Designed by: 16-15-HANW.DON  
Drawn by: WRM  
Reviewed by: WRM  
Title: 16-15-HANW.DON  
Date: JULY 2016

---

16-15-HANW.DON  
16-15-HANW.DON  
16-15-HANW.DON  
16-15-HANW.DON  
16-15-HANW.DON  
16-15-HANW.DON  
16-15-HANW.DON

---

**HYDRO EXAMINATION SURVEY FY16  
7, 12 AND 15-FOOT PROJECT**  
STA. 2+00 CUT-4N THRU STA. 3+00 CUT-7N  
**PLAN**

---

Scale: AS SHOWN

Drawing no. **8**

SHEET 08 OF 11

GRAPHIC SCALE  
100' 0 100' 200'

NOTES:  
1. REFER TO SURVEY NO. 16-151.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.





