

# U.S. NAVAL STATION MAYPORT 4Q HYDROGRAPHIC EXAM SURVEY FY21



SHEET INDEX



**LOCATION MAP**

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

**SURVEY NOTES**

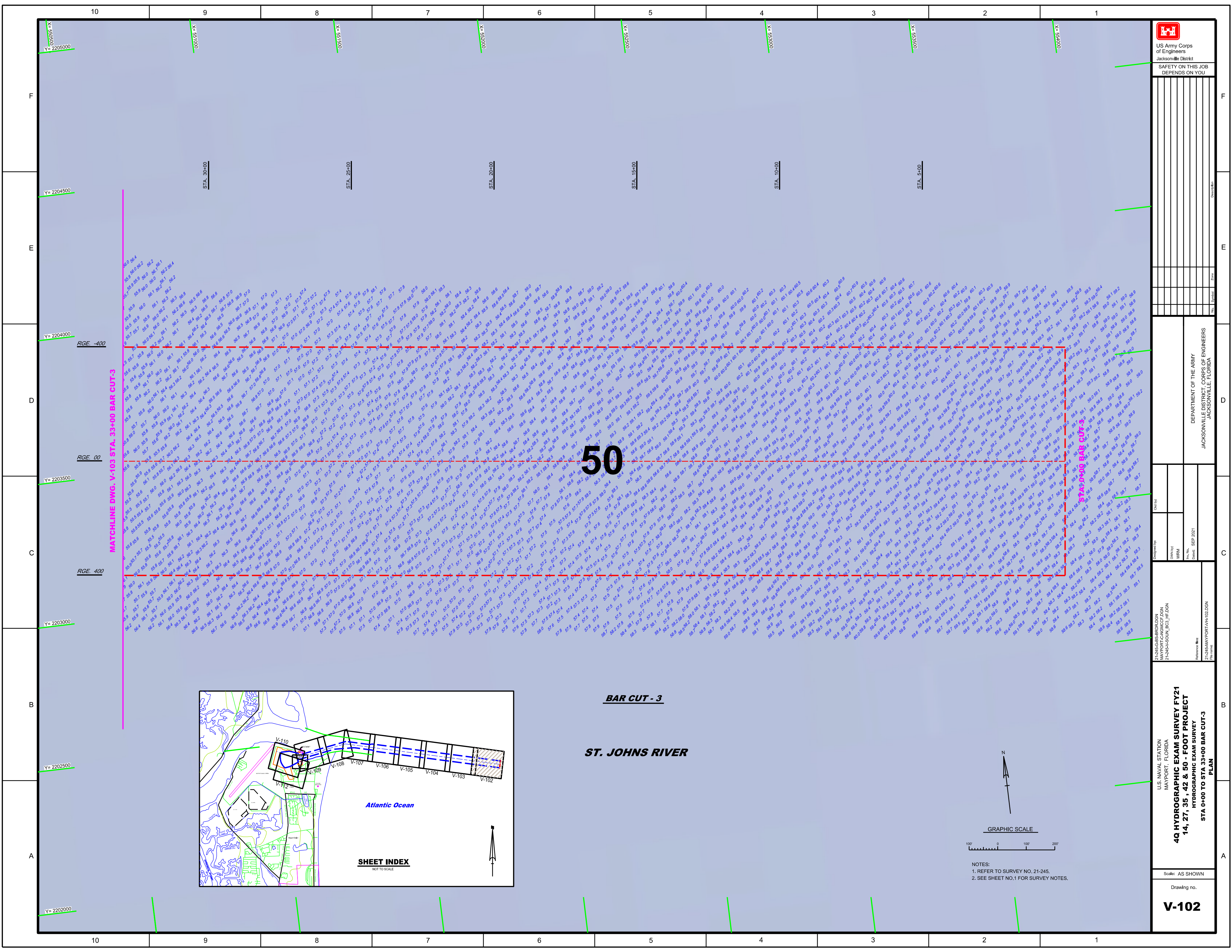
1. REFER TO SURVEY NO. 21-245.
  2. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001 AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S VDATUM MODEL, AND PUBLISHED TIDE STATION DATA, WERE USED TO GENERATE A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. THIS KTD MODEL, BEING A COMBINATION OF THOSE TWO SOURCES, CANNOT BE CONSIDERED EQUIVALENT TO THE VDATUM MODEL BECAUSE OF POSSIBLE ADDITIONS THERETO. DO NOT USE VDATUM MODEL IN PLACE OF THE KTD FILE. THE KTD MODEL USED FOR THIS SURVEY IS:  
 \*CAMDENG-NASSAU-DUVAL-STJOHNS-FLAGLER\_20191202.KTD\*.
  3. 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 SITE SPECIFIED BELOW:  
 NOAA TIDAL STATION 872-0218, BAR PILOTS DOCK
  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 "USACE MAYPORT ARP" (OPUS PID: BBG280)
  8. VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC 2024 MULTI-BEAM AND A ROSS MODEL 835 SMART SOUNDER OPERATING AT 28/200 KHZ. ALL MULTI-BEAM SOUNDINGS IN THE MEC ARE IN HIGH FREQUENCY. ALL OTHER SINGLE-BEAM SOUNDINGS IN THE TURNING BASIN, SLIP, SMALL BOAT BASIN AND MEC STA. 56+28 TO 63+42 ARE IN LOW FREQUENCY.
- | VESSEL        | DATE OF SURVEY | CUT                                      |
|---------------|----------------|--|
| SV FLORIDA II | 27-29 SEP 2021 | MEC, BAR CUT-3                           |
| SB-36         | 28 SEP 2021    | SMALL BOAT BASIN,<br>TURNING BASIN, SLIP |
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 AND EM 1110-2-6506, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 31 DEC 2010.

21-245-G-18-BRDLDGN  
 MAYPORT-4QHYDROCF.DGN  
 21-245-AMAYPORT-VH-101.DGN  
 File Name

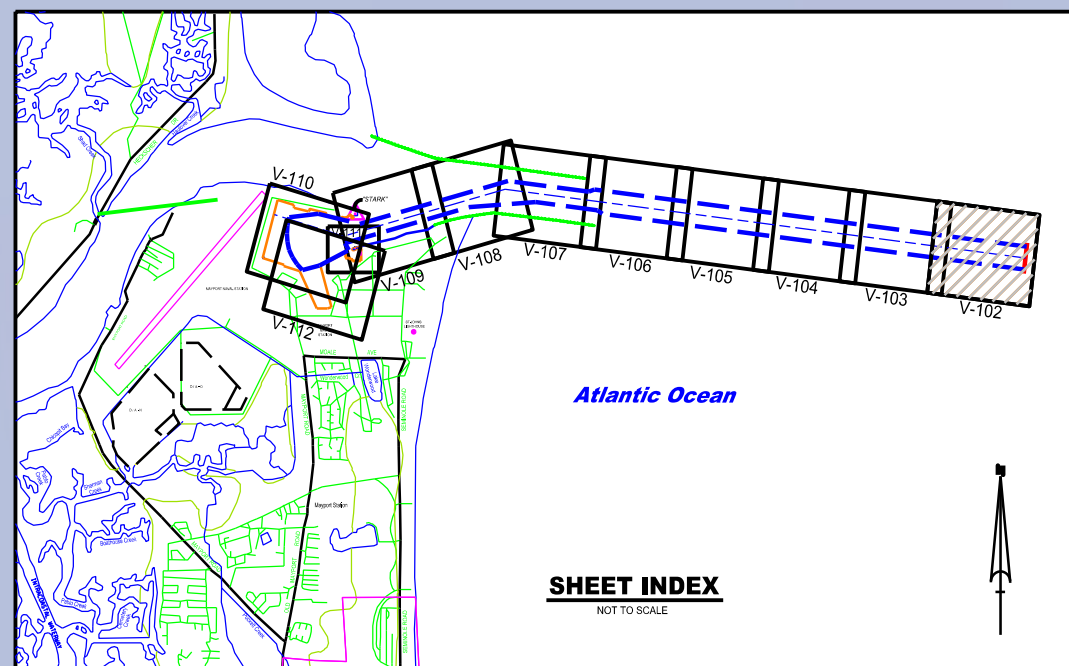
U.S. NAVAL STATION  
 MAYPORT, FLORIDA  
**4Q HYDROGRAPHIC EXAM SURVEY FY21**  
**14, 27, 35, 42 & 50 - FOOT PROJECT**  
 HYDROGRAPHIC EXAM SURVEY

Scale: AS SHOWN  
 Drawing no.  
**VH-101**



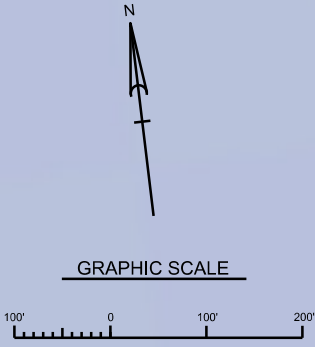


MATCHLINE DWG. V-103 STA. 33+00 BAR CUT-3



**BAR CUT - 3**  
**ST. JOHNS RIVER**

**SHEET INDEX**  
NOT TO SCALE

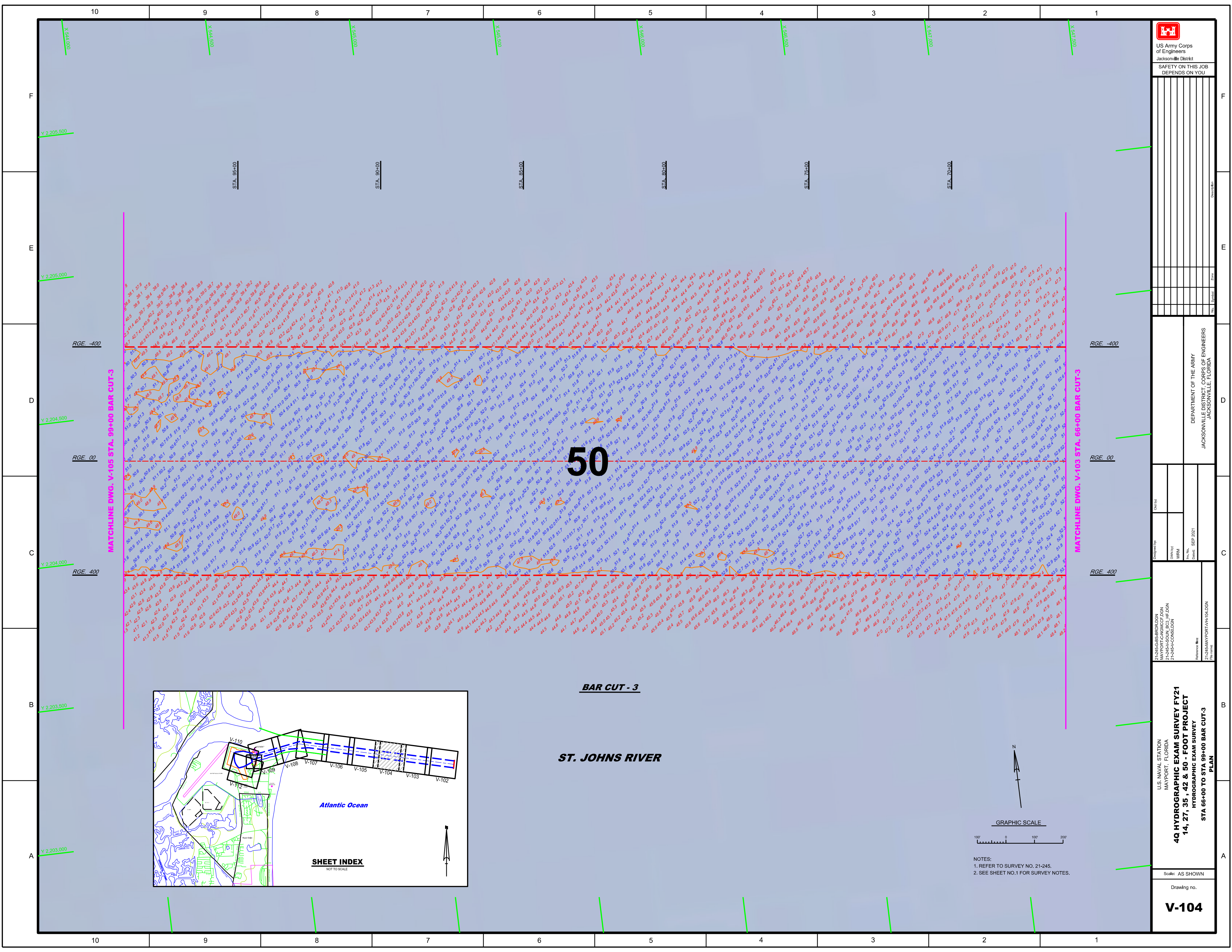


- NOTES:  
1. REFER TO SURVEY NO. 21-245.  
2. SEE SHEET NO.1 FOR SURVEY NOTES.





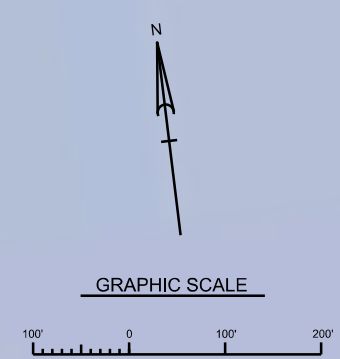
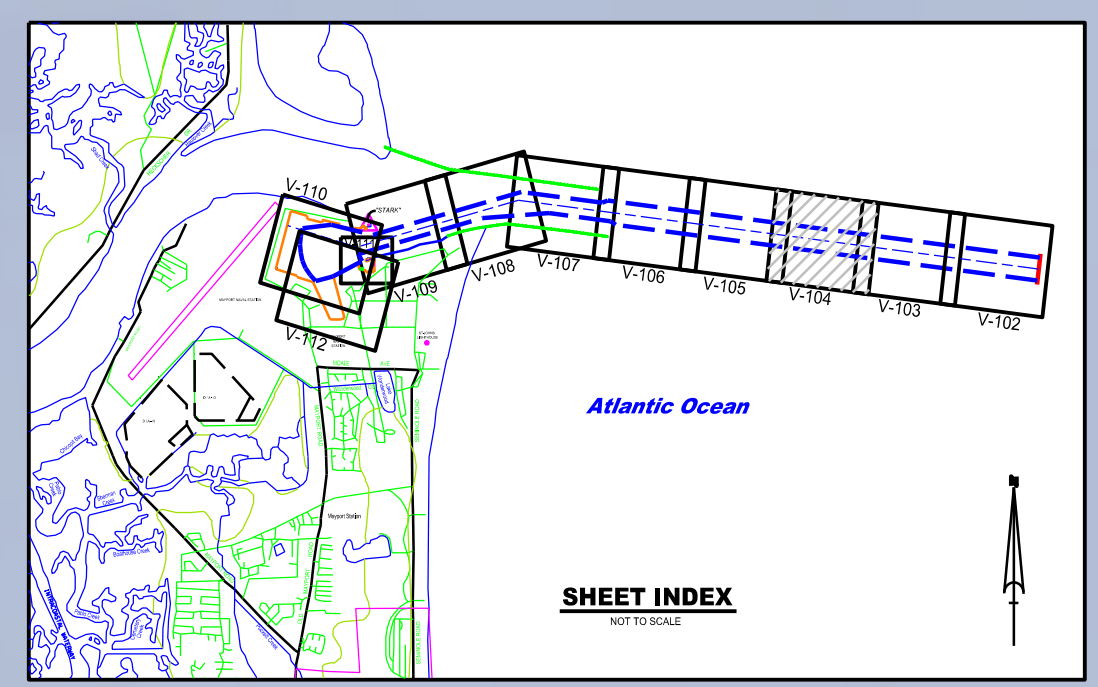




**50**

**BAR CUT - 3**

**ST. JOHNS RIVER**



NOTES:  
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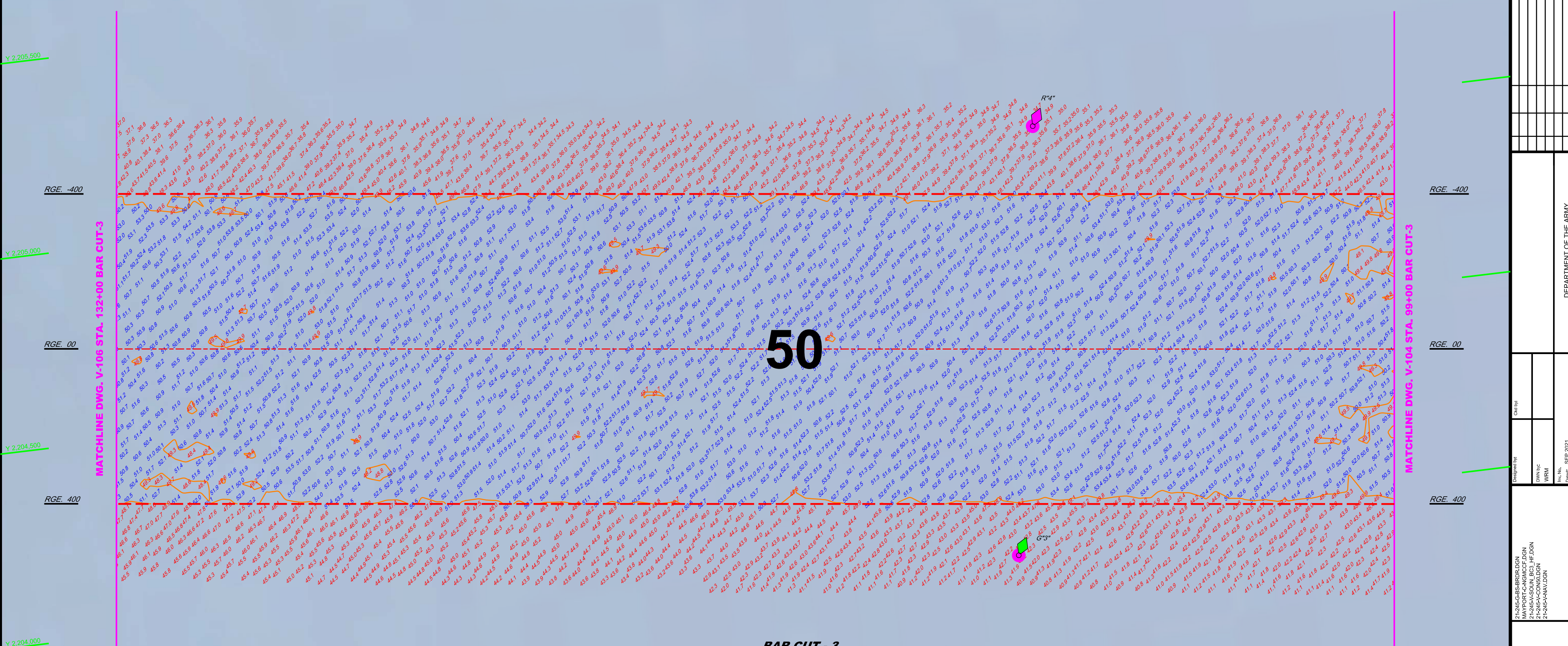


MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G*3"	LT. BUOY-3 (09/21)	543,003	2,203,925	30°23'43.62"	81°21'32.16"
R*4"	LT. BUOY-4 (09/21)	543,172	2,205,021	30°23'54.47"	81°21'30.27"

STA. 130+00      STA. 125+00      STA. 120+00      STA. 115+00      STA. 110+00      STA. 105+00

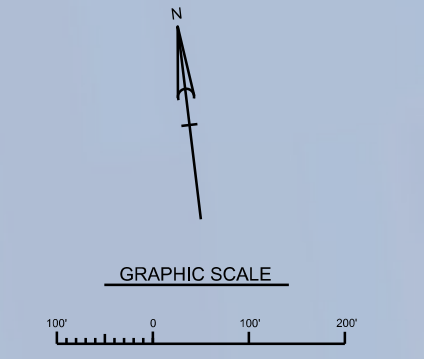
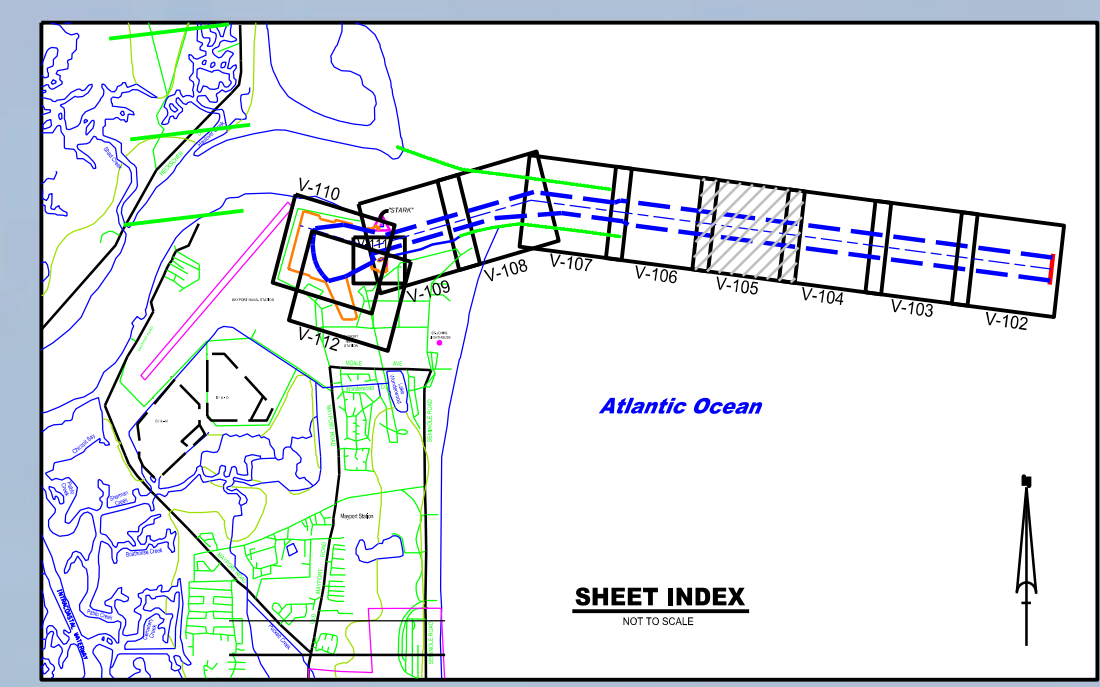
MATCHLINE DWG. V-106 STA. 132+00 BAR CUT-3

MATCHLINE DWG. V-104 STA. 99+00 BAR CUT-3



BAR CUT - 3

ST. JOHNS RIVER



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

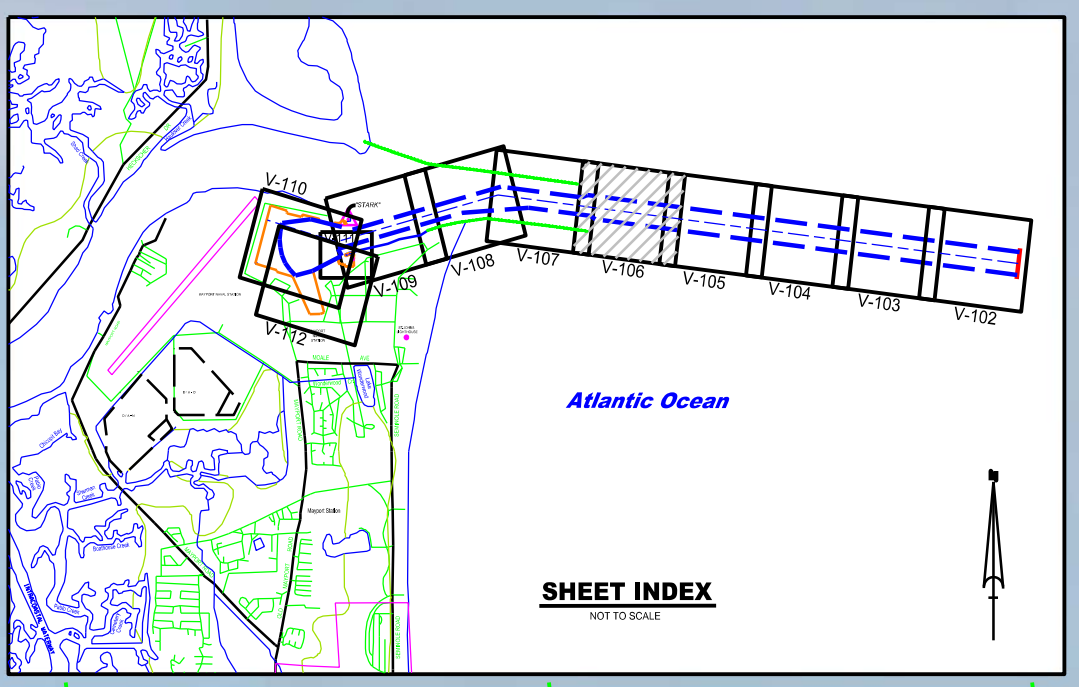
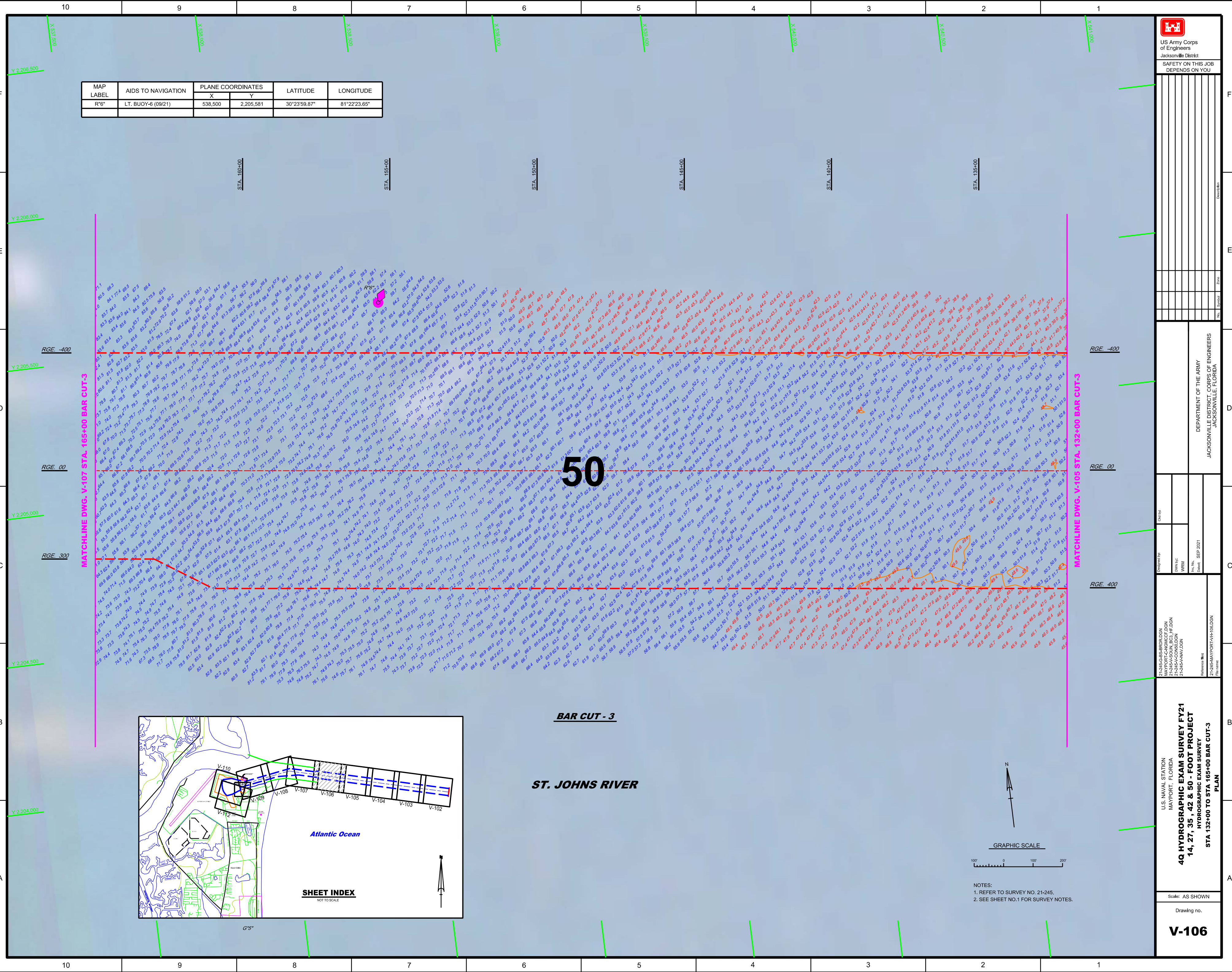
U.S. NAVAL STATION  
MAYPORT, FLORIDA  
21-245-CB-BRDLDRN  
21-245-CA-CONDRGN  
21-245-CA-HAVDRGN  
21-245-CA-CONDRGN  
21-245-CA-HAVDRGN  
Reference: 21-245-CA-PORTVAH-05LDRN  
File name: V-105

4Q HYDROGRAPHIC EXAM SURVEY FY21  
14, 27, 35, 42 & 50 - FOOT PROJECT  
HYDROGRAPHIC EXAM SURVEY  
STA 99+00 TO STA 132+00 BAR CUT-3  
PLAN

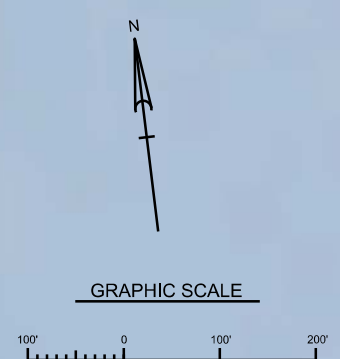
Drawing no.  
**V-105**



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R#6	LT. BUOY-6 (09/21)	538,500	2,205,581	30°23'59.87"	81°22'23.65"



**BAR CUT - 3**  
**ST. JOHNS RIVER**



U.S. NAVAL STATION  
MAYPORT, FLORIDA

**4Q HYDROGRAPHIC EXAM SURVEY FY21**  
**14, 27, 35, 42 & 50 - FOOT PROJECT**  
HYDROGRAPHIC EXAM SURVEY  
STA 132+00 TO STA 165+00 BAR CUT-3  
PLAN

Scale: AS SHOWN  
Drawing no.  
**V-106**

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

21-245-GS-BIRDSON  
21-245-CH-NGRICE.DGN  
21-245-CA-COON.DGN  
21-245-H-NAV.DGN

Designed by: [Name]  
Drawn by: WRM  
Checked by: [Name]  
Date: SEP 2021



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G7*	LT. BUOY-7 (09/21)	534,959	2,204,926	30°23'53.27"	81°23'04.05"
R8*	LT. BUOY-8 (09/21)	535,304	2,205,770	30°24'01.63"	81°23'00.15"

Drawn by	Checked by

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

Drawn by	Checked by

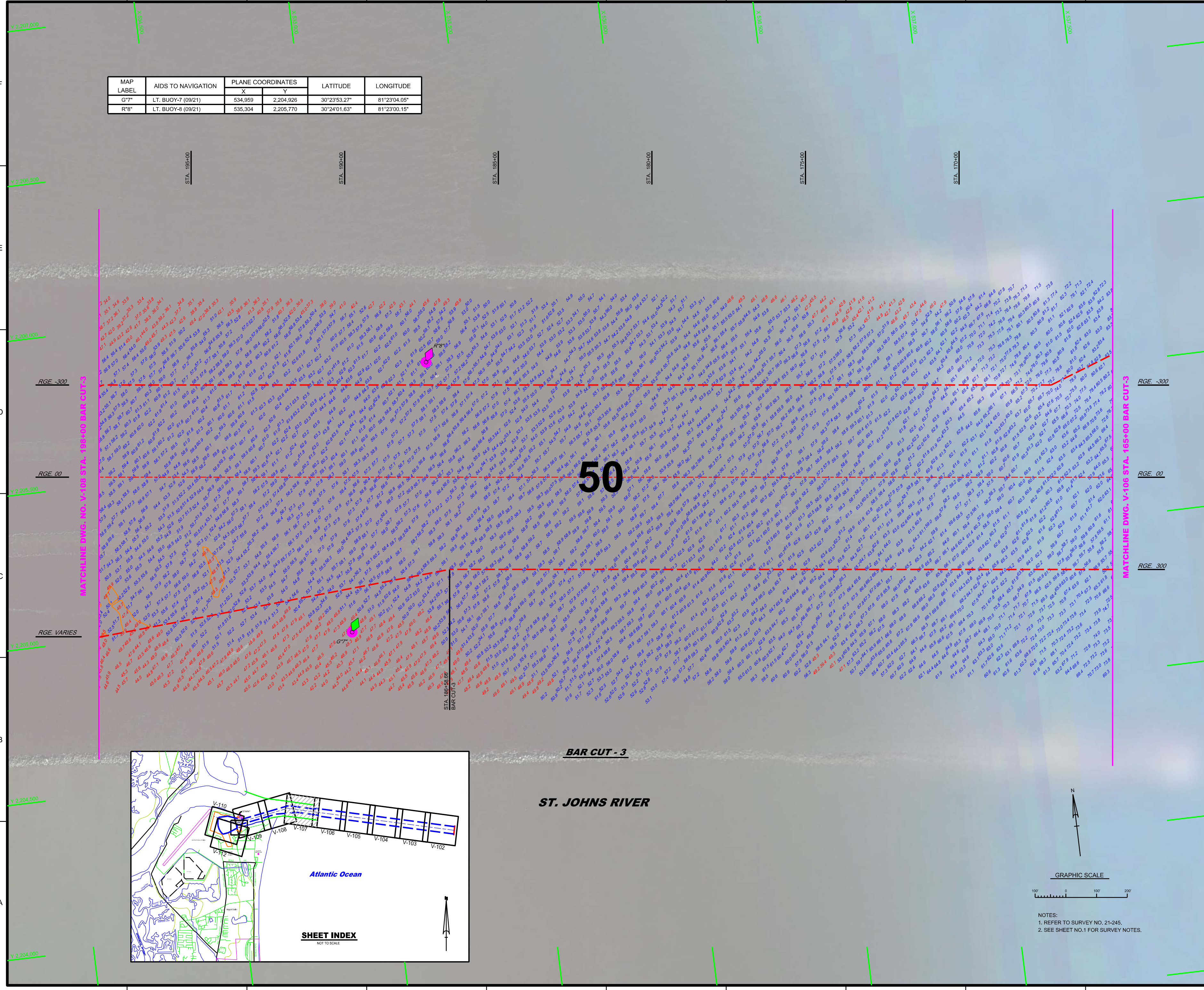
Project No.	Project Name
21-245-SB-BIRDSON	
21-245-PC-NGRICE.DON	
21-245-CA-SOUL.EC.HF.JIB.DON	
21-245-CA-CON00.DON	
21-245-CA-HAV.DON	

U.S. NAVAL STATION  
MAYPORT, FLORIDA

**4Q HYDROGRAPHIC EXAM SURVEY FY21**  
**14, 27, 35, 42 & 50 - FOOT PROJECT**  
**HYDROGRAPHIC EXAM SURVEY**  
**STA 165+00 TO STA 198+00 BAR CUT-3**  
**PLAN**

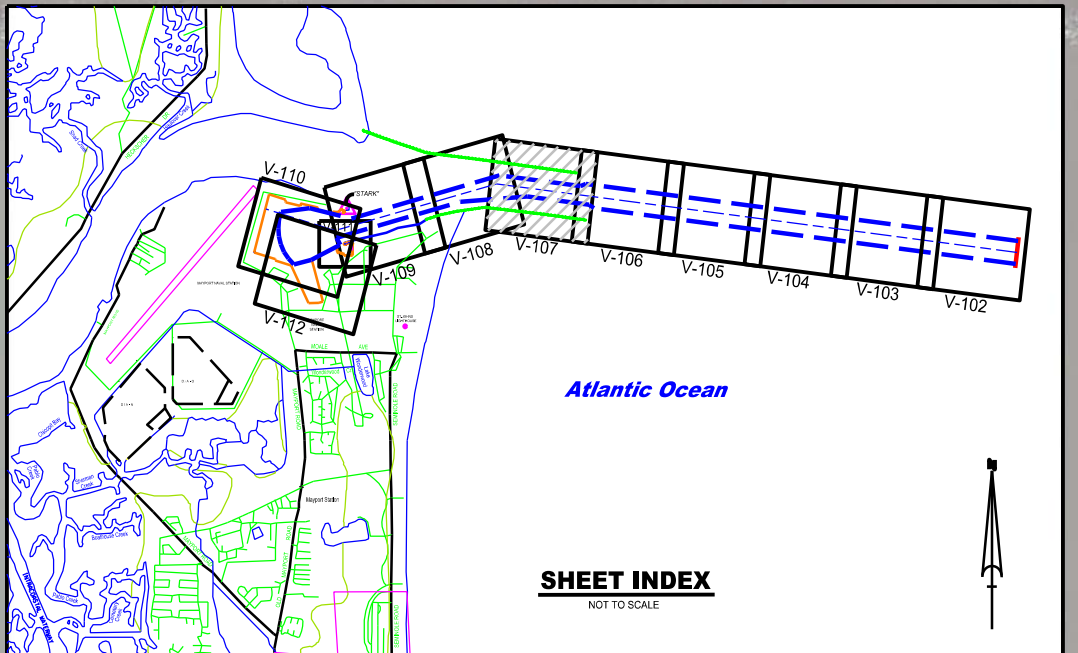
Scale: AS SHOWN

Drawing no.  
**V-107**



50

**BAR CUT - 3**  
**ST. JOHNS RIVER**



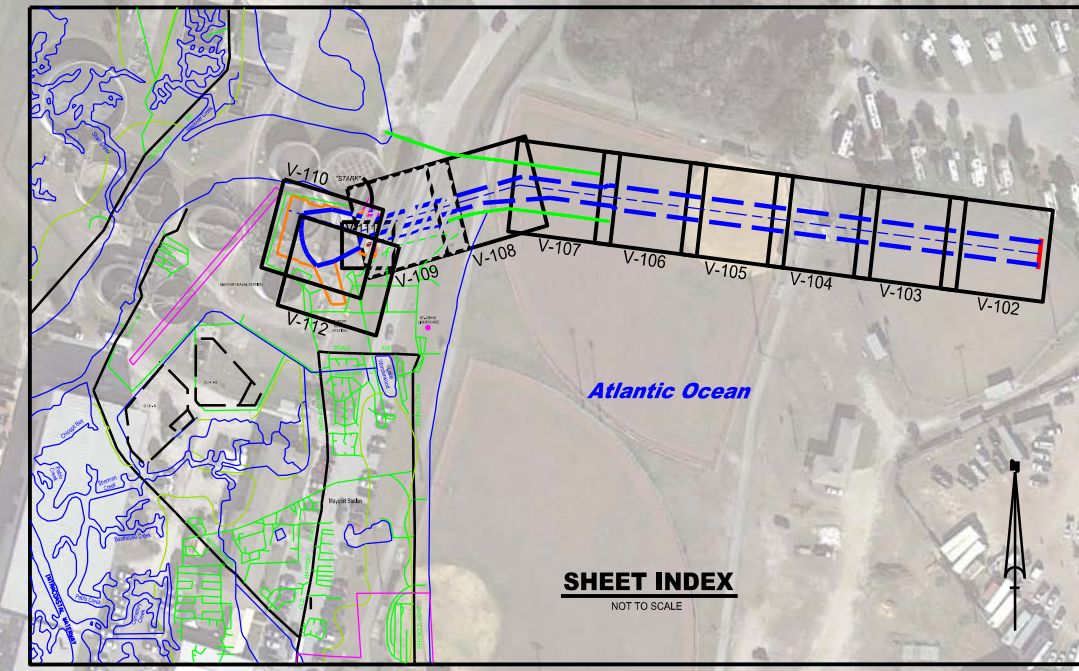
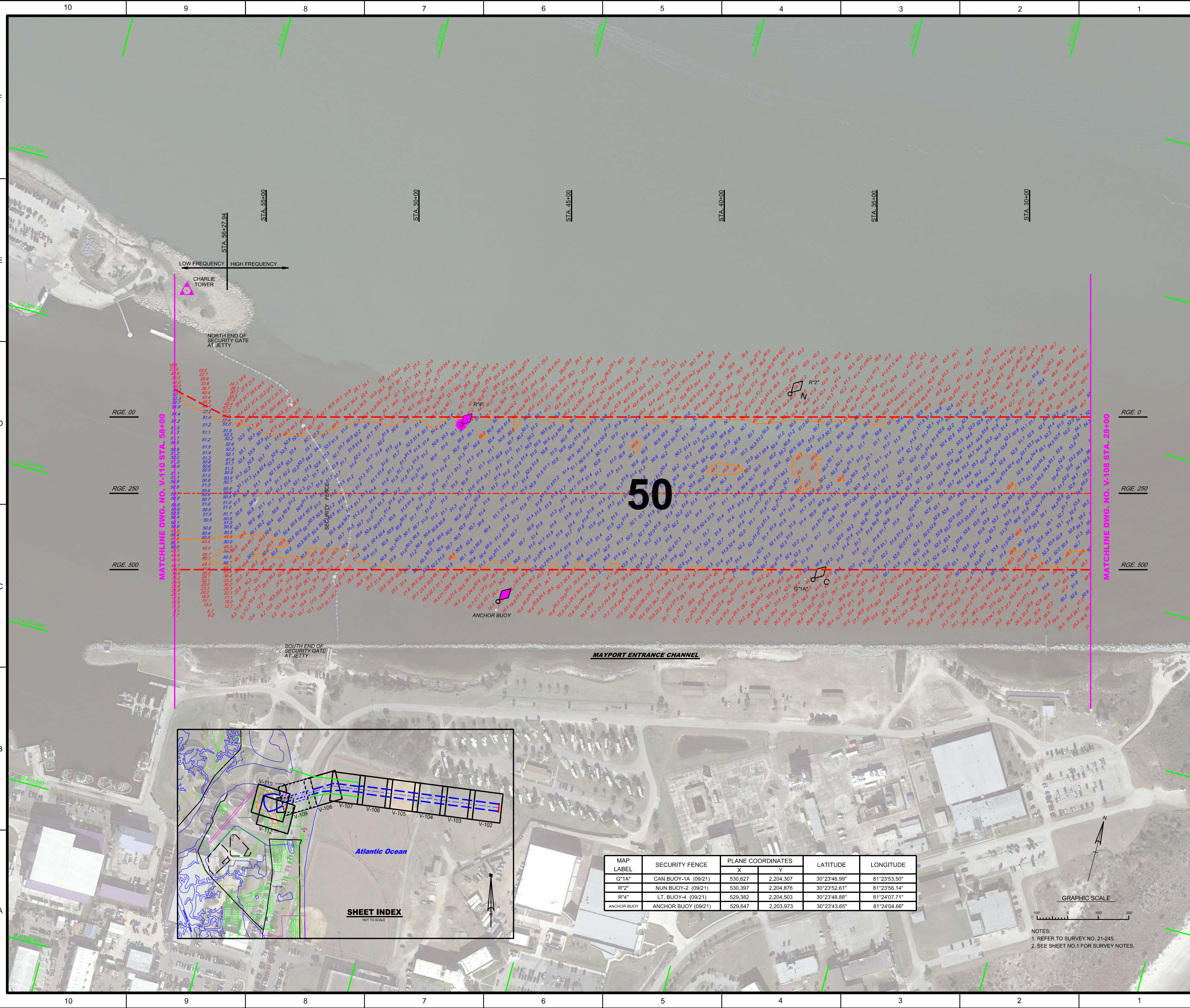
GRAPHIC SCALE  
100 0 100 200

NOTES:  
1. REFER TO SURVEY NO. 21-245.  
2. SEE SHEET NO.1 FOR SURVEY NOTES.

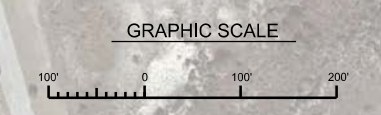






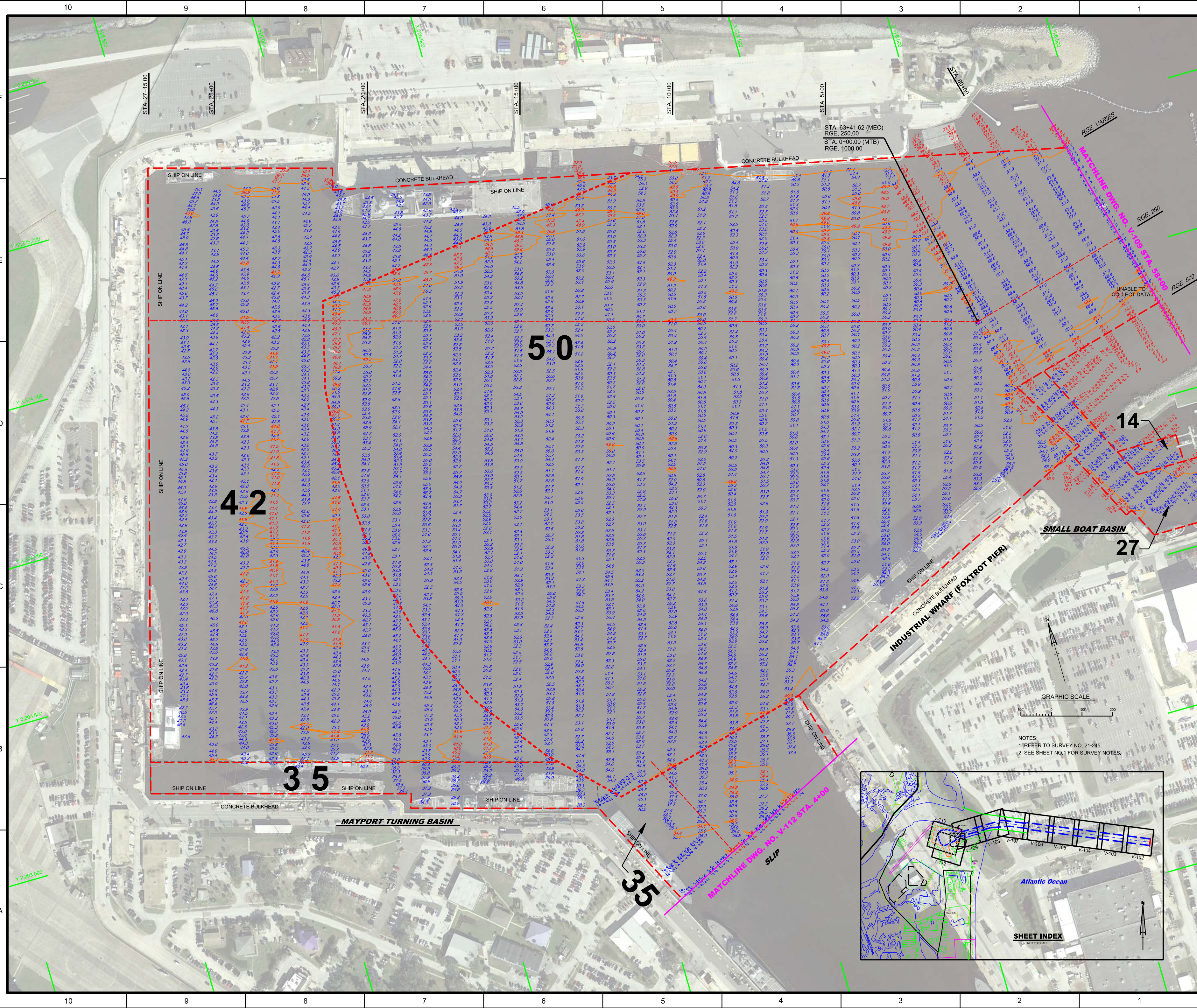


MAP LABEL	SECURITY FENCE	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G*1A	CAN BUOY-1A (09/21)	530.627	2,204.307	30°23'46.99"	81°23'53.50"
R*2	NUN BUOY-2 (09/21)	530.397	2,204.876	30°23'52.61"	81°23'56.14"
R*4	LT. BUOY-4 (09/21)	529.382	2,204.503	30°23'48.88"	81°24'07.71"
ANCHOR BUOY	ANCHOR BUOY (09/21)	529.647	2,203.973	30°23'43.65"	81°24'04.66"



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Zone	Spot	Depth
F		
ET		
D		
C		
B		
A		

JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

Drawn By	Checked By	Scale
WPM	SEP 2021	AS SHOWN

U.S. NAVAL STATION  
MAYPORT, FLORIDA

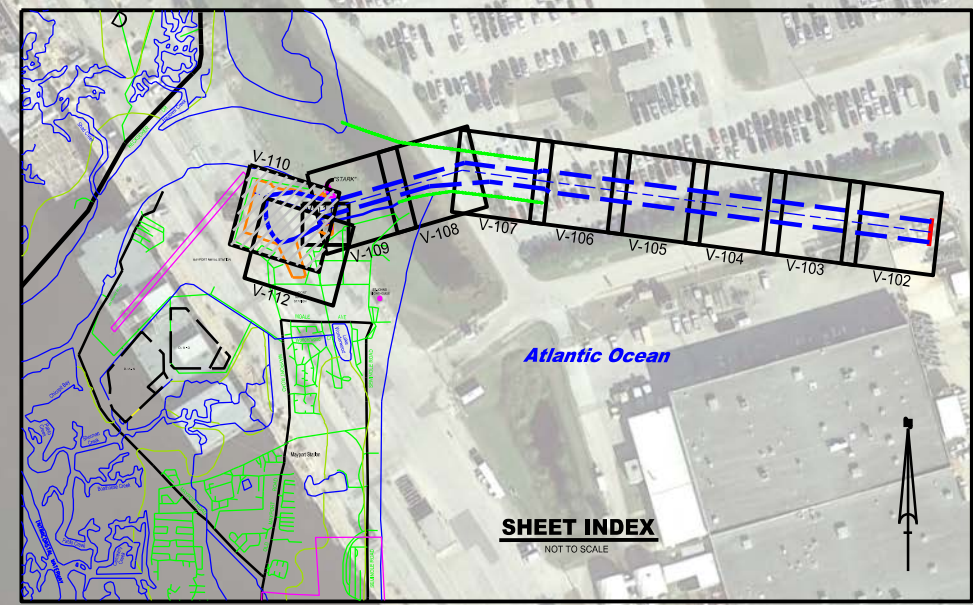
**4Q HYDROGRAPHIC EXAM SURVEY FY21**  
**14, 27, 35, 42 & 50 - FOOT PROJECT**  
HYDROGRAPHIC EXAM SURVEY  
TURNING BASIN  
PLAN

Scale: AS SHOWN  
Drawing no.  
**V-110**

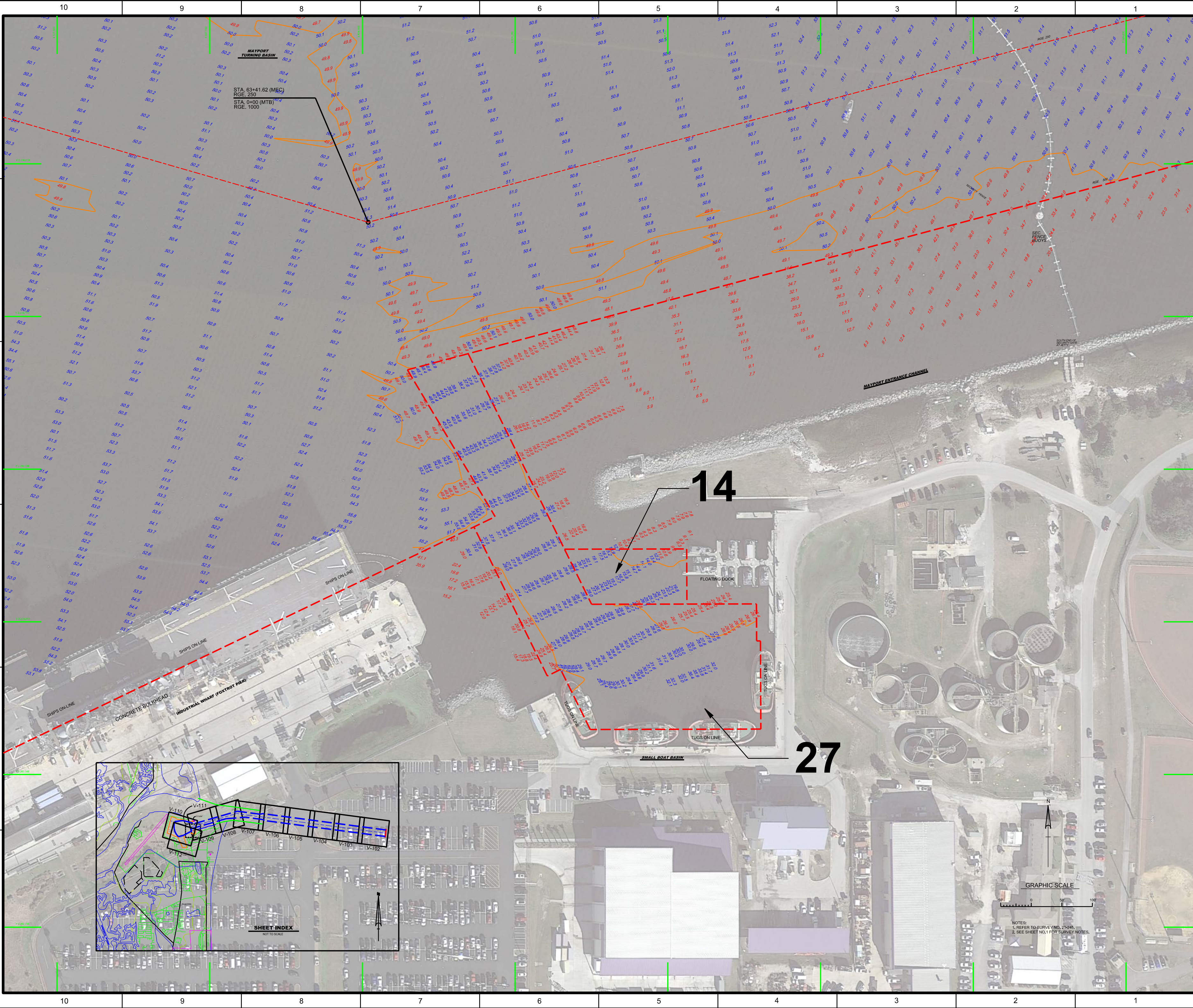
NOTES:  
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GRAPHIC SCALE  
0 100 200

SHEET INDEX







<p>US Army Corps of Engineers Jacksonville District SAFETY ON THIS JOB DEPENDS ON YOU</p>	
<p>DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA</p>	
<p>Checked By: _____ Date: _____</p>	<p>Designed By: 21245-ACON02.DGN Drawn By: WRM Plot Date: SEP 2021 Reference File: 21245MAYPORTVH11.DGN File Name: _____</p>
<p><b>4Q HYDROGRAPHIC EXAM SURVEY FY21</b> <b>14, 27, 35, 42 &amp; 50 - FOOT PROJECT</b> HYDROGRAPHIC EXAM SURVEY <b>SMALL BOAT BASIN</b> PLAN</p>	
<p>Scale: AS SHOWN</p>	
<p>Drawing no. <b>V-111</b></p>	



50

35

35

MAYPORT TURNING BASIN

INDUSTRIAL WHARF  
 (FOXTROT PIER)

SMALL BOAT BASIN

STA. 5+00 D.S.

SLIP

STA. 10+00 D.S.

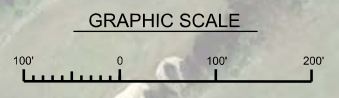
RGE. 23.0

SHIP ON-LINE

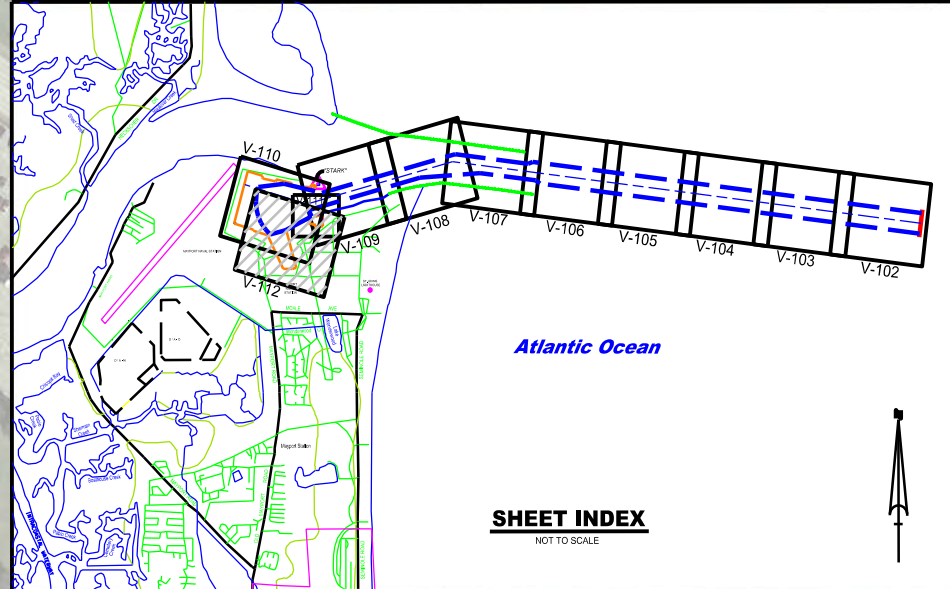
STA. 15+46.3 D.S.  
 RGE. 250

STA. 16+12 D.S.  
 RGE. 363.7

STA. 16+31.3 D.S.  
 RGE. 490.4



NOTES:  
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DEPARTMENT OF THE ARMY  
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 JACKSONVILLE, FLORIDA

U.S. NAVAL STATION  
 MAYPORT, FLORIDA  
**4Q HYDROGRAPHIC EXAM SURVEY FY21**  
**14, 27, 35, 42 & 50 - FOOT PROJECT**  
 HYDROGRAPHIC EXAM SURVEY  
 DESTROYER SLIP  
 PLAN

Scale: AS SHOWN  
 Drawing no.  
**V-112**