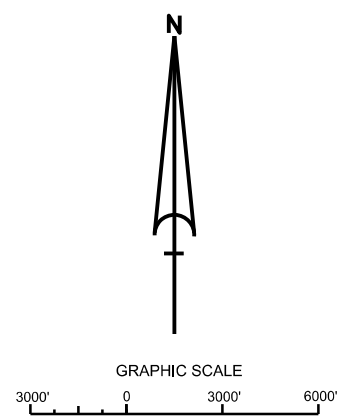
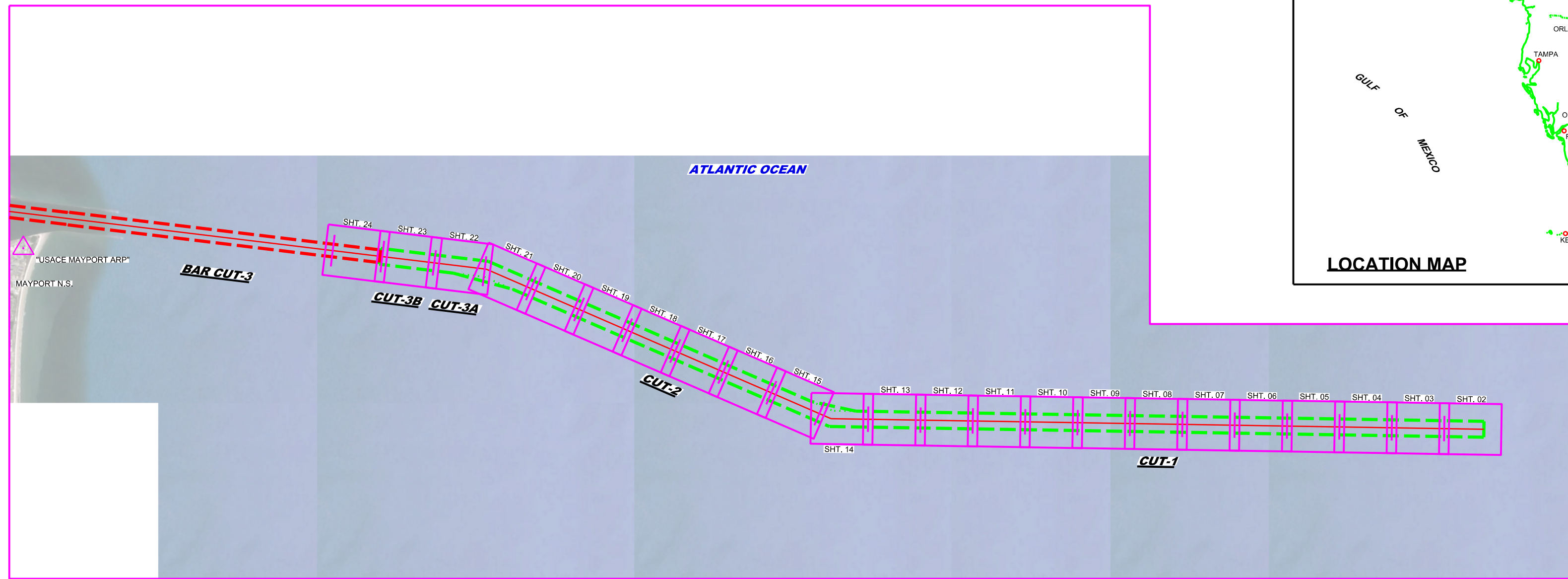
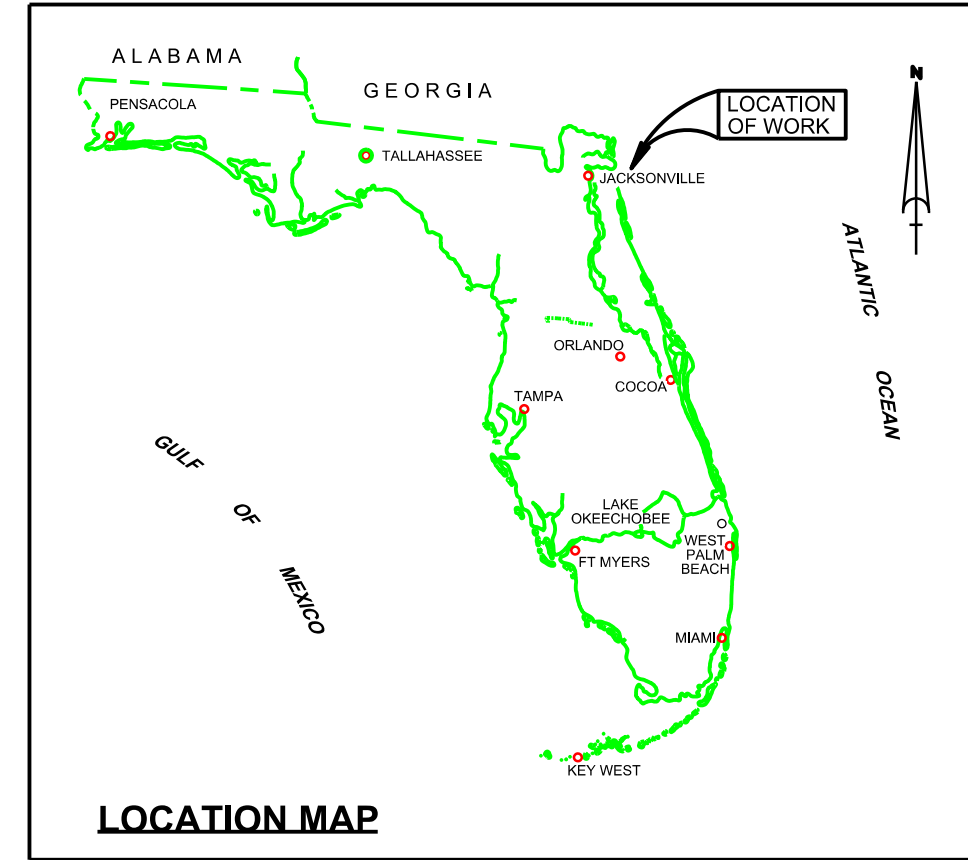


# JACKSONVILLE HARBOR, FLORIDA OUTER EXTENSION EXAM SURVEY FY23 50-FOOT PROJECT



LEGEND	
	MONUMENT
	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. 23-011.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW USING A HYPACK KINEMATIC TIDAL DATUM (KTD) FILE. FILE NAME:  
CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER\_20191202.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 THE NORTH AMERICAN DATUM OF 1983 (NAD83).
- 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 LOCATIONS:  
REFERENCE BASE LOCATED AT "USACE MAYPORT ARP" (OPUS PID: BBG280)  
TIDE STAFF LOCATED AT MORNING STAR MARINA (872 0218 TIDAL A)
- DEPTHS DEPICTED BY THIS SURVEY ARE IN FEET AND TENTHS AND REFERENCED TO MEAN LOWER LOW WATER (MLLW), TIDAL EPOCH 1983-2001, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S DATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHT OF THE BENCHMARK ASSOCIATED WITH THE TIDE GAGE SITE SPECIFIED BELOW:  
NOAA TIDAL STATION 872-0218, BAR PILOTS DOCK
- VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC MODEL 2026 MULTI-BEAM SYSTEM OPERATING AT 300 KHZ. ALL SOUNDINGS SHOWN IN HIGH FREQUENCY.
- VESEL: SV FLORIDA II      DATE OF SURVEY: 16, 18, 28-29 NOV 2022      AREA SURVEYED: JAX HARBOR OUTER EXTENSION
- AIDS TO NAVIGATION WERE LOCATED FOR 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 SURVEY.
- SURVEY ACCURACY 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 1110-2-6056, STANDARDS AND PROCEDURES FOR REFERENCING PROJECT ELEVATION GRADES TO NATIONWIDE VERTICAL DATUMS, 30 NOV 2013.

US Army Corps of Engineers  
Jacksonville District

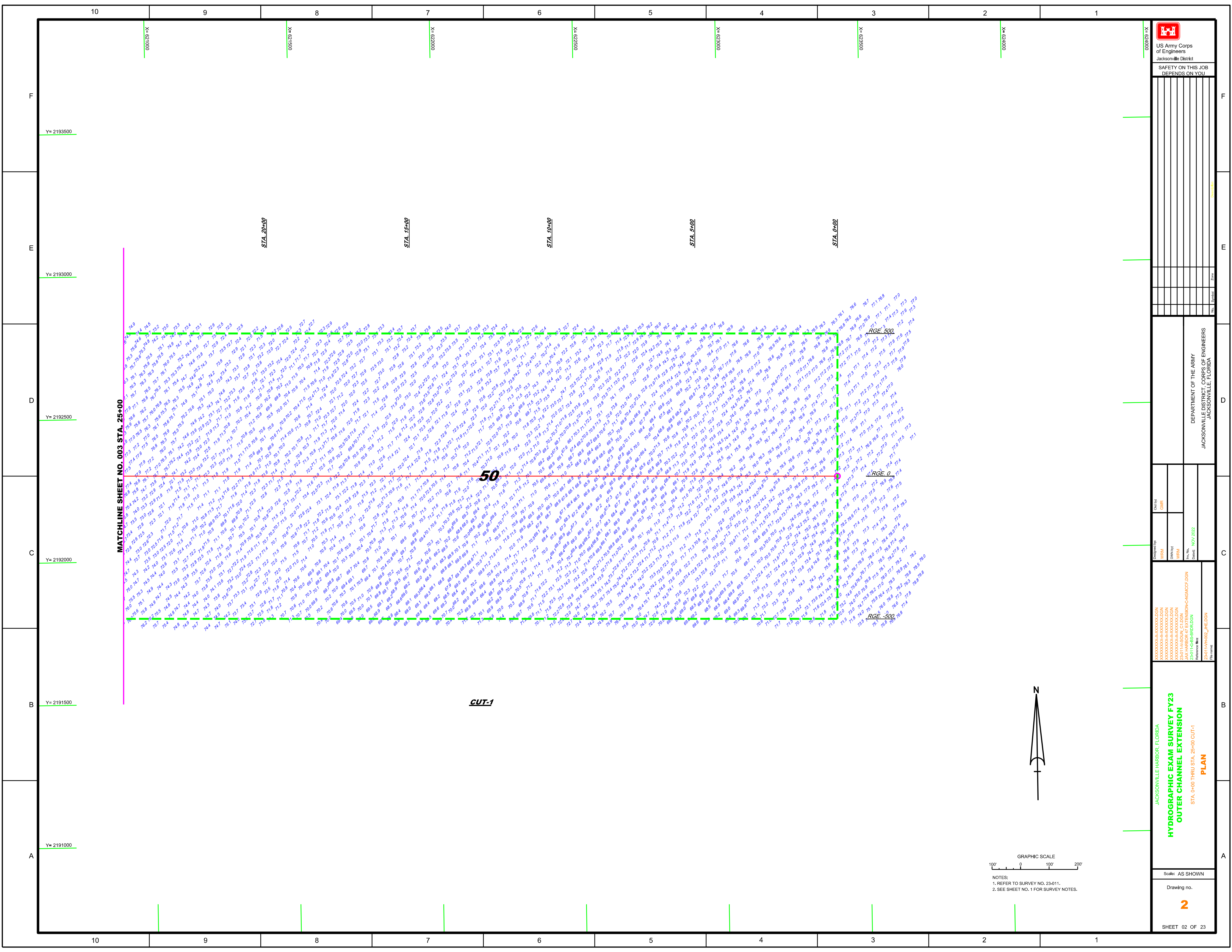
SAFETY ON THIS JOB  
DEPENDS ON YOU

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

Checked by: GMR  
Designed by: WRM  
Drawn by: WRM  
File Name: JAX HARBOR AT EXTENSION-CANVACCE.DGN  
Reference File: 23-011-HYD07\_P1E.DGN  
Date: NOV 2022

JACKSONVILLE HARBOR, FLORIDA  
HYDROGRAPHIC EXAM SURVEY FY23  
OUTER CHANNEL EXTENSION  
INDEX, LOCATION AND VICINITY MAP

Scale: AS SHOWN  
Drawing no. 1



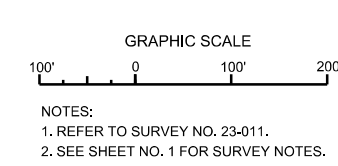
US Army Corps of Engineers  
Jacksonville District  
SAFETY ON THIS JOB  
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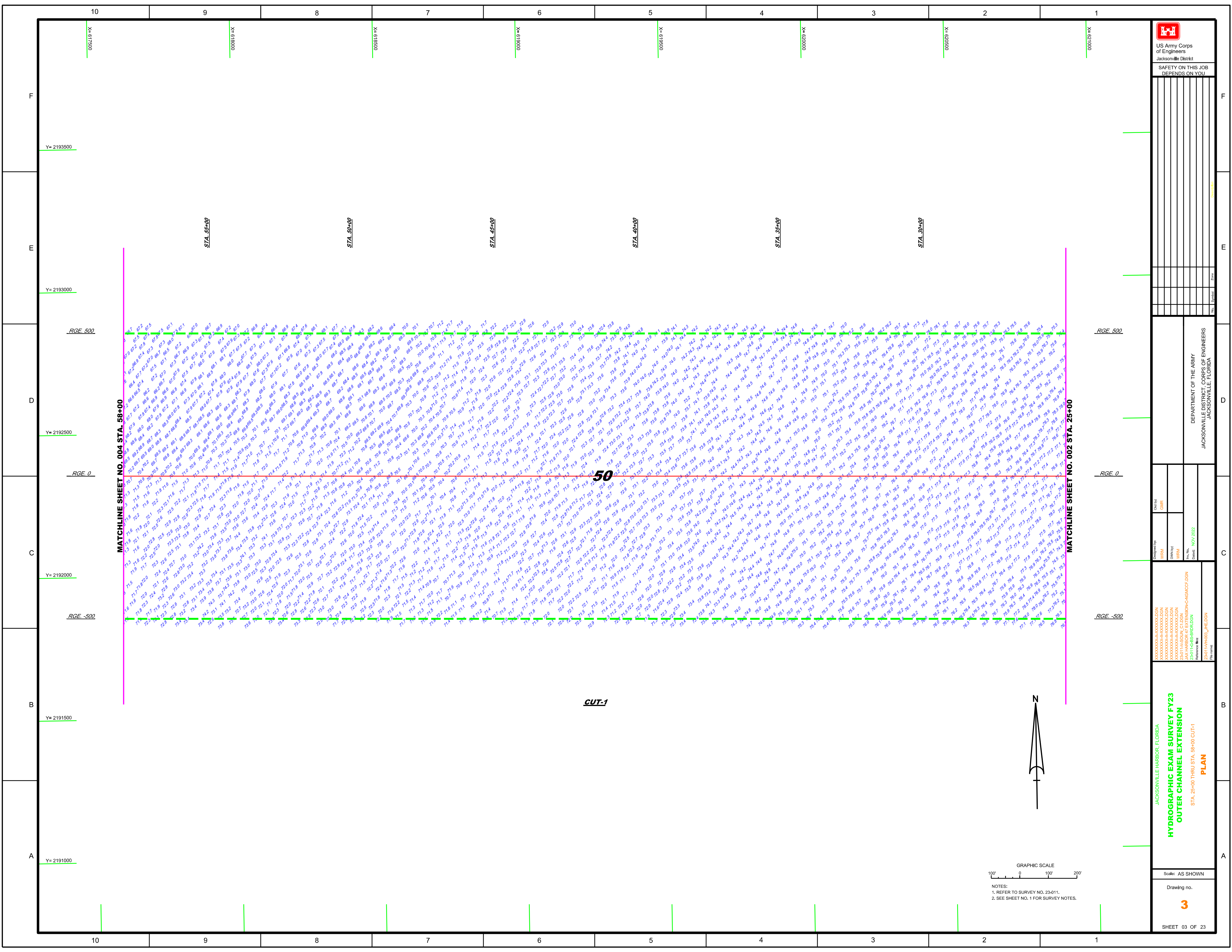
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA


Designed by: WRM  
Checked by: GHR  
Drawn by: WRM  
File Name: 2401-HARBOR-EXTENSION-CUT-1.DGN  
Revision: 02  
Date: NOV 2022

JACKSONVILLE HARBOR, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY23  
OUTER CHANNEL EXTENSION**  
STA. 0+00 THRU STA. 25+00 CUT-1  
**PLAN**

Scale: AS SHOWN  
Drawing no. **2**  
SHEET 02 OF 23





  
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 Jacksonville District  
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 DEPENDS ON YOU

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

Designed by: **WPM**  
 Drawn by: **WPM**  
 Check by: **GHR**  
 Date: **NOV 2022**  
 Project: **JAX HARBOR EXTENSION-CAIGCC-03N**  
 Reference File: **J240114HAR03\_PIE.DGN**

**JACKSONVILLE HARBOR, FLORIDA**  
**HYDROGRAPHIC EXAM SURVEY FY23**  
**OUTER CHANNEL EXTENSION**  
 STA. 25+00 THRU STA. 58+00 CUT-1  
**PLAN**  
 Scale: AS SHOWN  
 Drawing no. **3**  
 SHEET 03 OF 23

MATCHLINE SHEET NO. 004 STA. 58+00

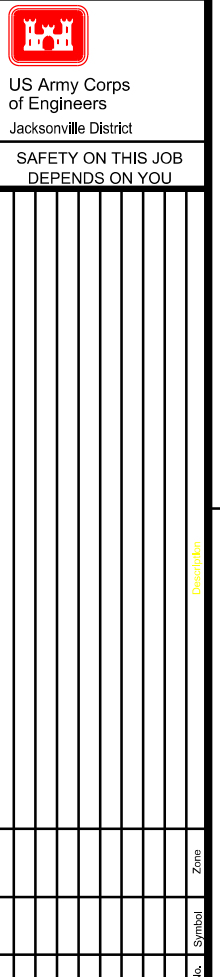
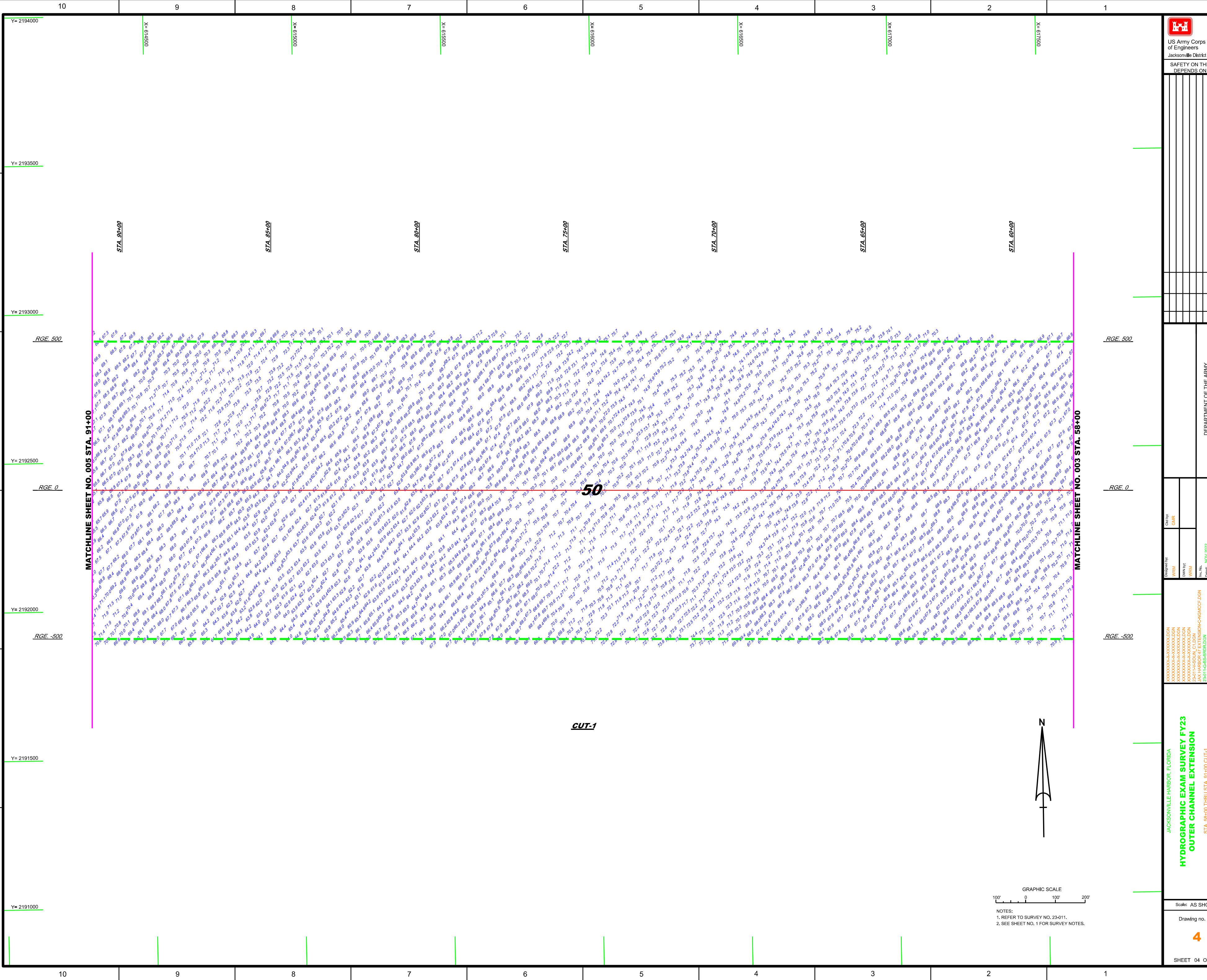
MATCHLINE SHEET NO. 002 STA. 25+00

**50**

**CUT-1**



NOTES:  
 1. REFER TO SURVEY NO. 23-011.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.



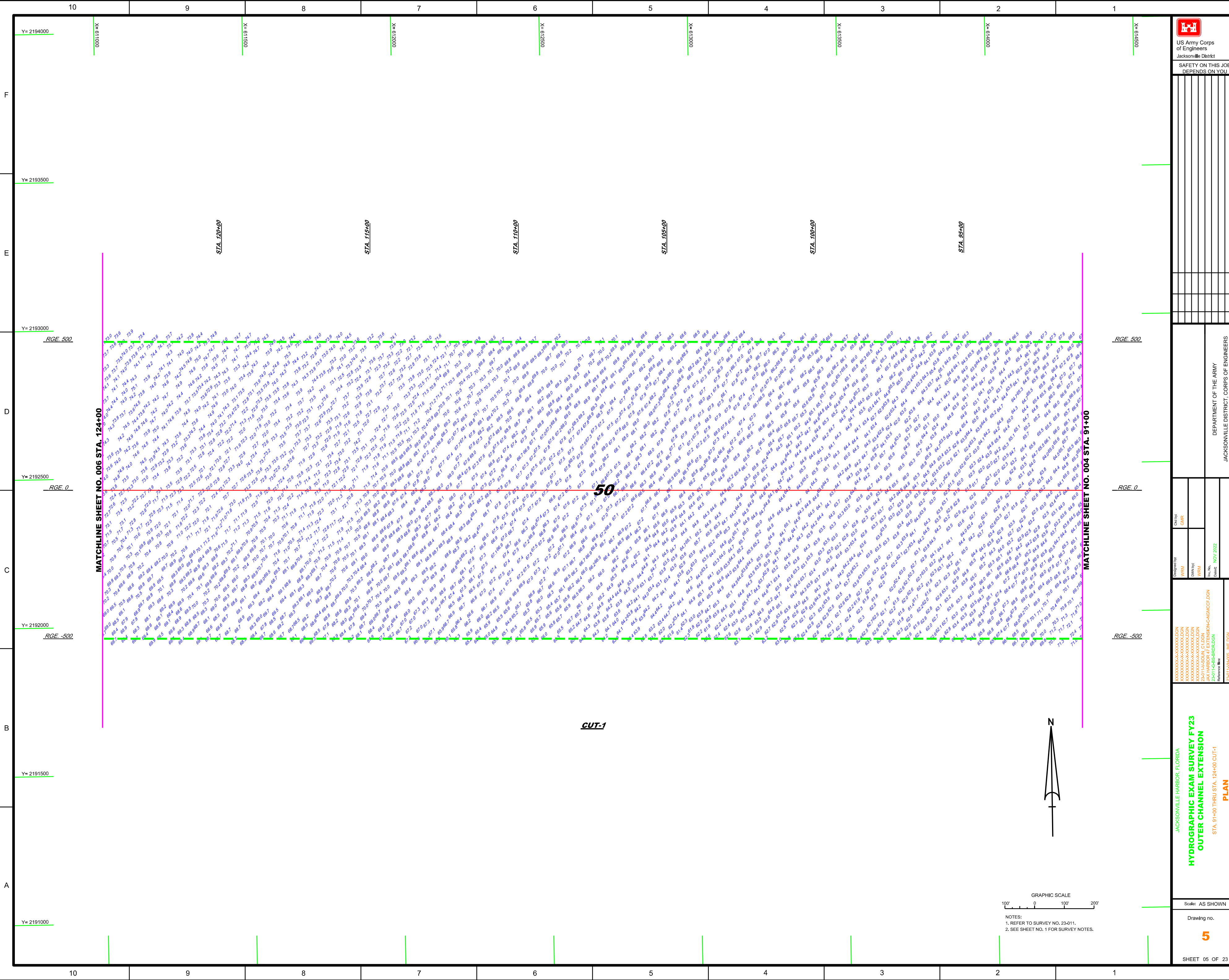
DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS  
JACKSONVILLE, FLORIDA

Created by: GHR  
Designed by: WRM  
Checked by: WRM  
Date: NOV 2022

JACKSONVILLE HARBOR, FLORIDA  
HYDROGRAPHIC EXAM SURVEY FY23  
OUTER CHANNEL EXTENSION  
STA. 59+00 THRU STA. 91+00 CUT-1  
PLAN

Scale: AS SHOWN  
Drawing no. 4

NOTES:  
1. REFER TO SURVEY NO. 23-011.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



US Army Corps  
of Engineers  
Jacksonville District

**SAFETY ON THIS JOB  
DEPENDS ON YOU**


Designed By: **WRM**

Checked By: **GHR**

DRAWN BY: **WRM**

FILE NO.: **2401GCS-BIRDSON**

DATE: **NOV 2022**

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

---

**JACKSONVILLE HARBOR, FLORIDA**

**HYDROGRAPHIC EXAM SURVEY FY23  
OUTER CHANNEL EXTENSION**

STA. 91+00 THRU STA. 124+00 CUT-1

**PLAN**

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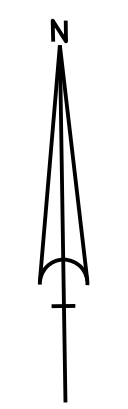
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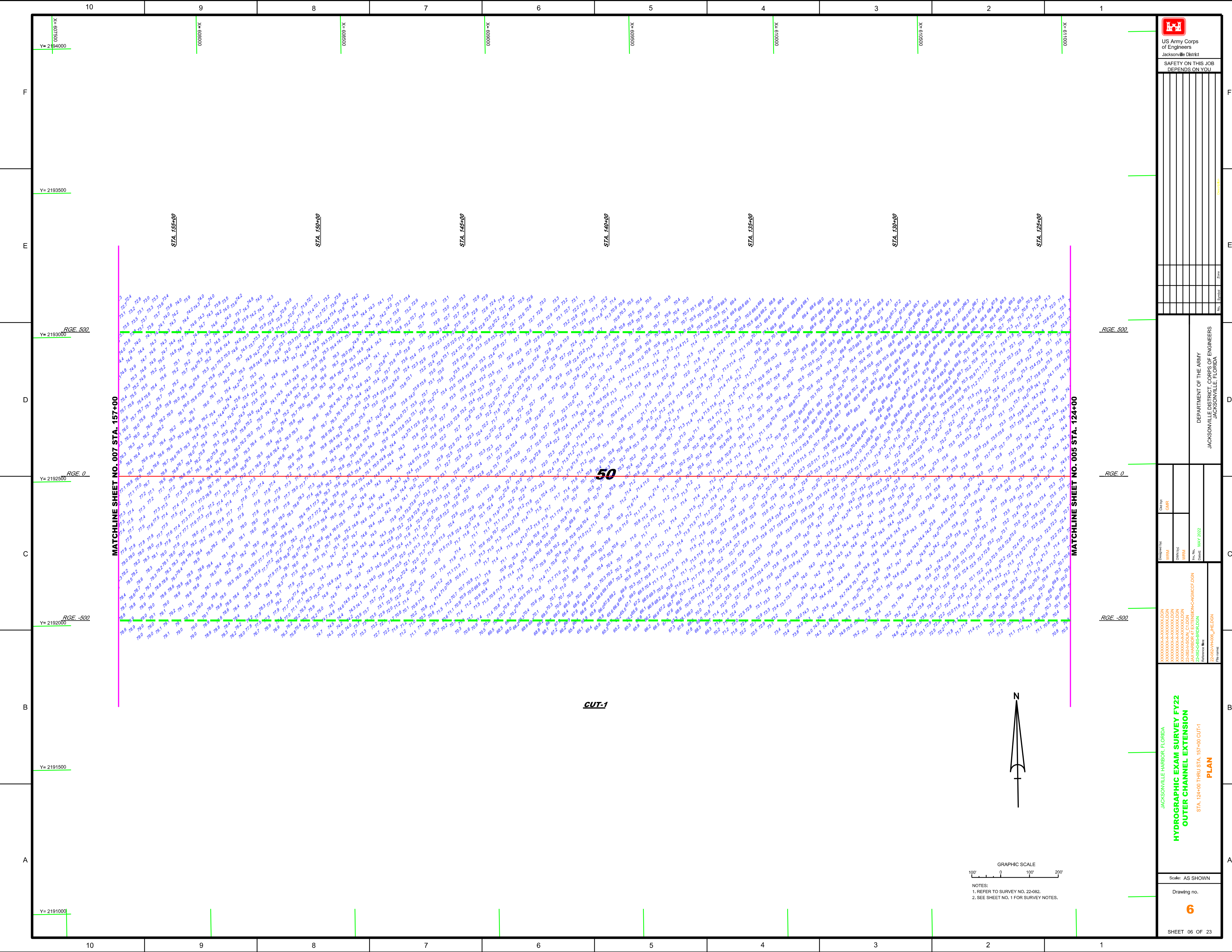
Drawing no.  
**5**

SHEET 05 OF 23



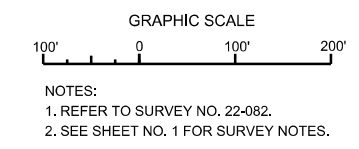
NOTES:  
1. REFER TO SURVEY NO. 23-011.  
2. SEE SHEET NO. 1 FOR SURVEY NOTES.



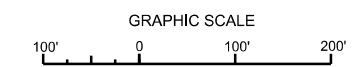
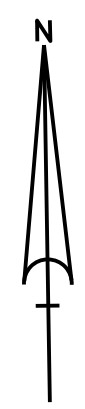
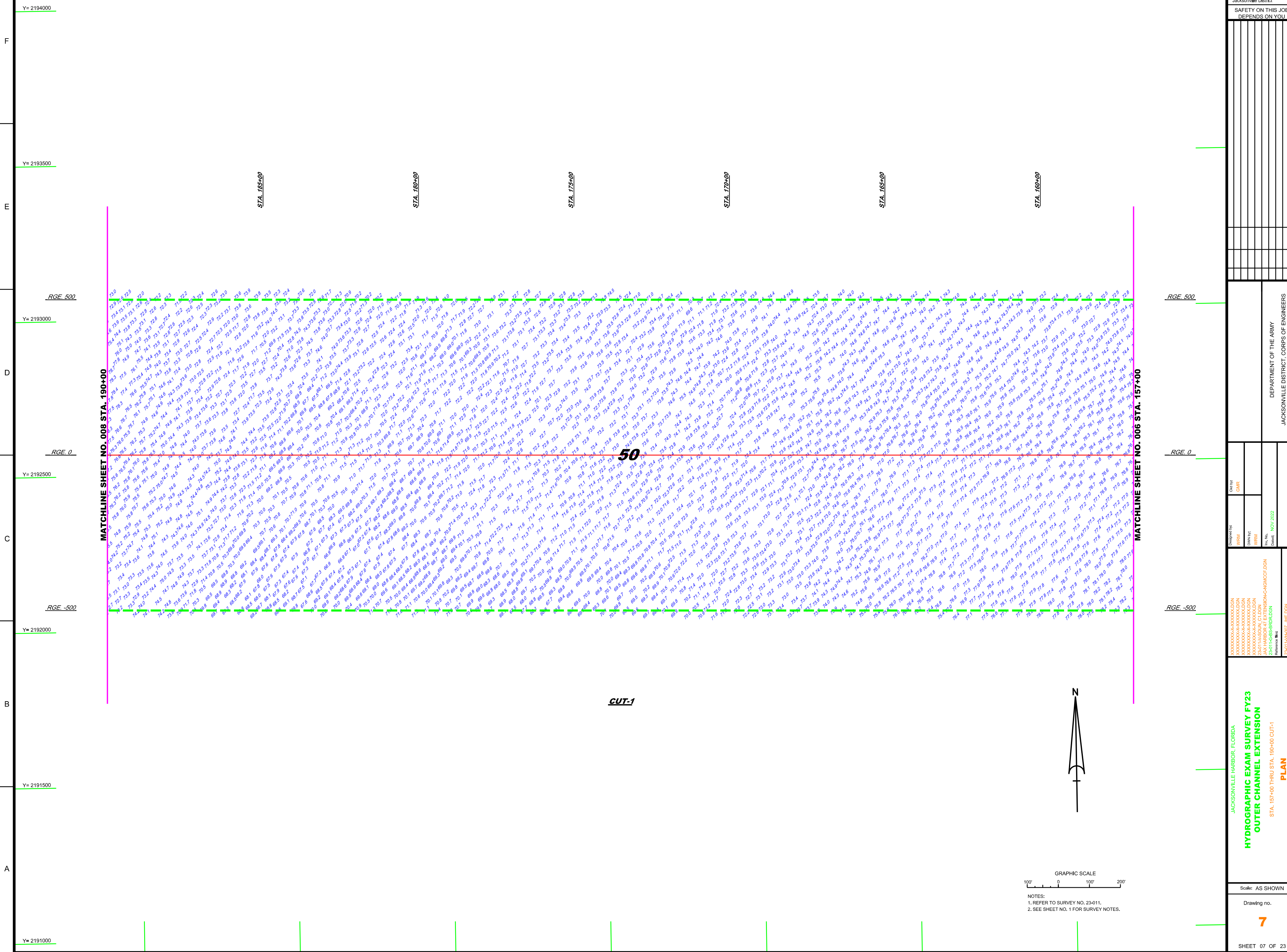


Designed by: WRM	Checked by: GHR
Drawn by: WRM	
Job No.: 22-AR63-5-B-0100010-010	Date: MAY 2022
Reference File: 22-AR63-5-B-0100010-010	

JACKSONVILLE HARBOR, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY22  
OUTER CHANNEL EXTENSION**  
STA. 124+00 THRU STA. 157+00 CUT-1  
**PLAN**



10 9 8 7 6 5 4 3 2 1

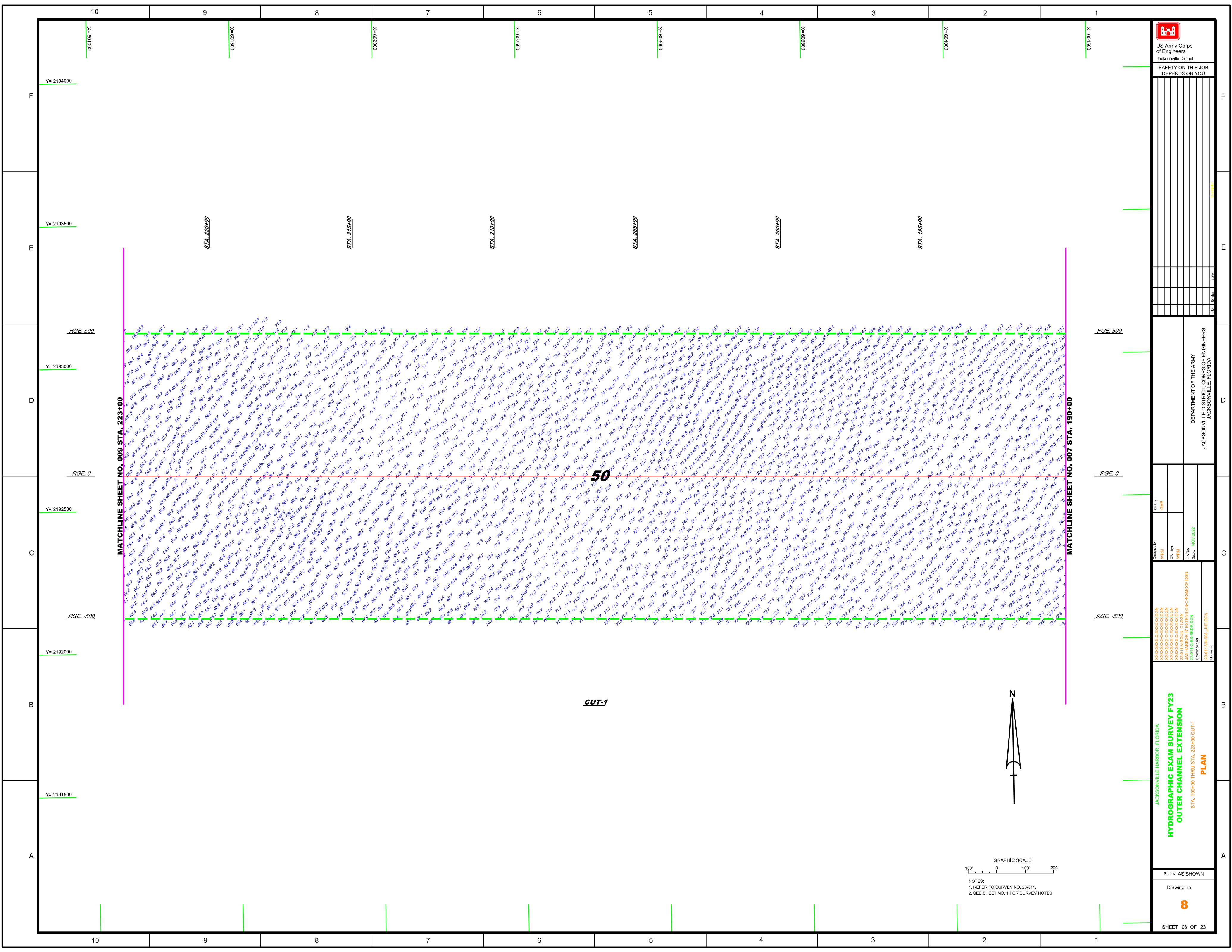


Scale: AS SHOWN  
 NOTES:  
 1. REFER TO SURVEY NO. 23-011.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

 US Army Corps of Engineers Jackson District																									
SAFETY ON THIS JOB DEPENDS ON YOU																									
<table border="1"> <tr><th>No.</th><th>Symbol</th><th>Zone</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>		No.	Symbol	Zone																					
No.	Symbol	Zone																							
Checked By: GHR Designed By: WRM Drawn By: WRM File No.: JAX HARBOR 67 EXTENSION-CAUGACE-03N Date: NOV 2022	DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA																								
<p style="text-align: center;"><b>JACKSONVILLE HARBOR, FLORIDA</b>  <b>HYDROGRAPHIC EXAM SURVEY FY23</b>  <b>OUTER CHANNEL EXTENSION</b>                  STA. 157+00 THRU STA. 190+00 CUT-1  <b>PLAN</b></p>																									
Scale: AS SHOWN Drawing no. <b>7</b>																									
SHEET 07 OF 23																									

MATCHLINE SHEET NO. 008 STA. 190+00

MATCHLINE SHEET NO. 006 STA. 157+00



US Army Corps of Engineers  
Jacksonville District

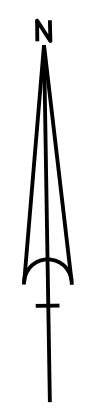
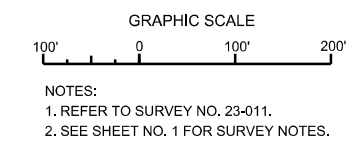
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DEPENDS ON YOU

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

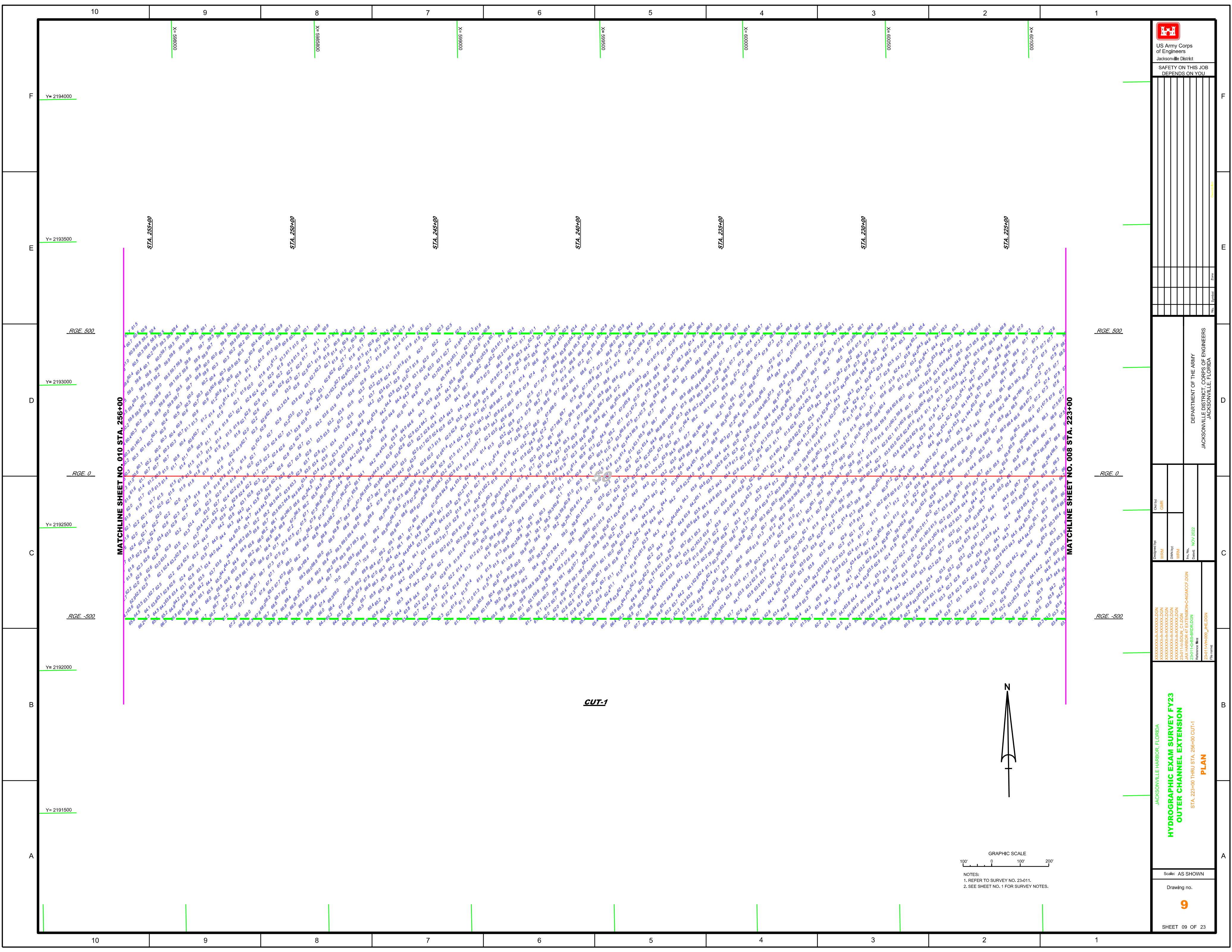
Checked By: GHR  
Designed By: WRM  
Drawn By: WRM  
File No.: 23-011-ES-BRD-03N  
Date: NOV 2022

JACKSONVILLE HARBOR, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY23  
OUTER CHANNEL EXTENSION**  
STA. 190+00 THRU STA. 223+00 CUT-1  
**PLAN**

Scale: AS SHOWN  
Drawing no. **8**  
SHEET 08 OF 23







XXXXXXXXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXXXXXX  
 JAX HARBOR EXTENSION-CAG/CCE/DGN  
 23-011-CB-SR-BRD/DGN  
 Reference File:  
 23-011-HARBOR\_EXT.DGN  
 File Name:

JACKSONVILLE HARBOR, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY23  
 OUTER CHANNEL EXTENSION**  
 STA. 223+00 THRU STA. 256+00 CUT-1  
**PLAN**

GRAPHIC SCALE  
 100' 0 100' 200'  
 NOTES:  
 1. REFER TO SURVEY NO. 23-011.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.



**CUT-1**

**MATCHLINE SHEET NO. 010 STA. 256+00**

**MATCHLINE SHEET NO. 008 STA. 223+00**

STA. 255+00

STA. 250+00

STA. 245+00

STA. 240+00

STA. 235+00

STA. 230+00

STA. 225+00

RGE\_500

RGE\_0

RGE\_-500

RGE\_500

RGE\_0

RGE\_-500

F  
Y=2194000

E  
Y=2193500

D  
Y=2193000

C  
Y=2192500

B  
Y=2192000

A  
Y=2191500

F

E

D

C

B

A

10

9

8

7

6

5

4

3

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1

10

9

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000885=X

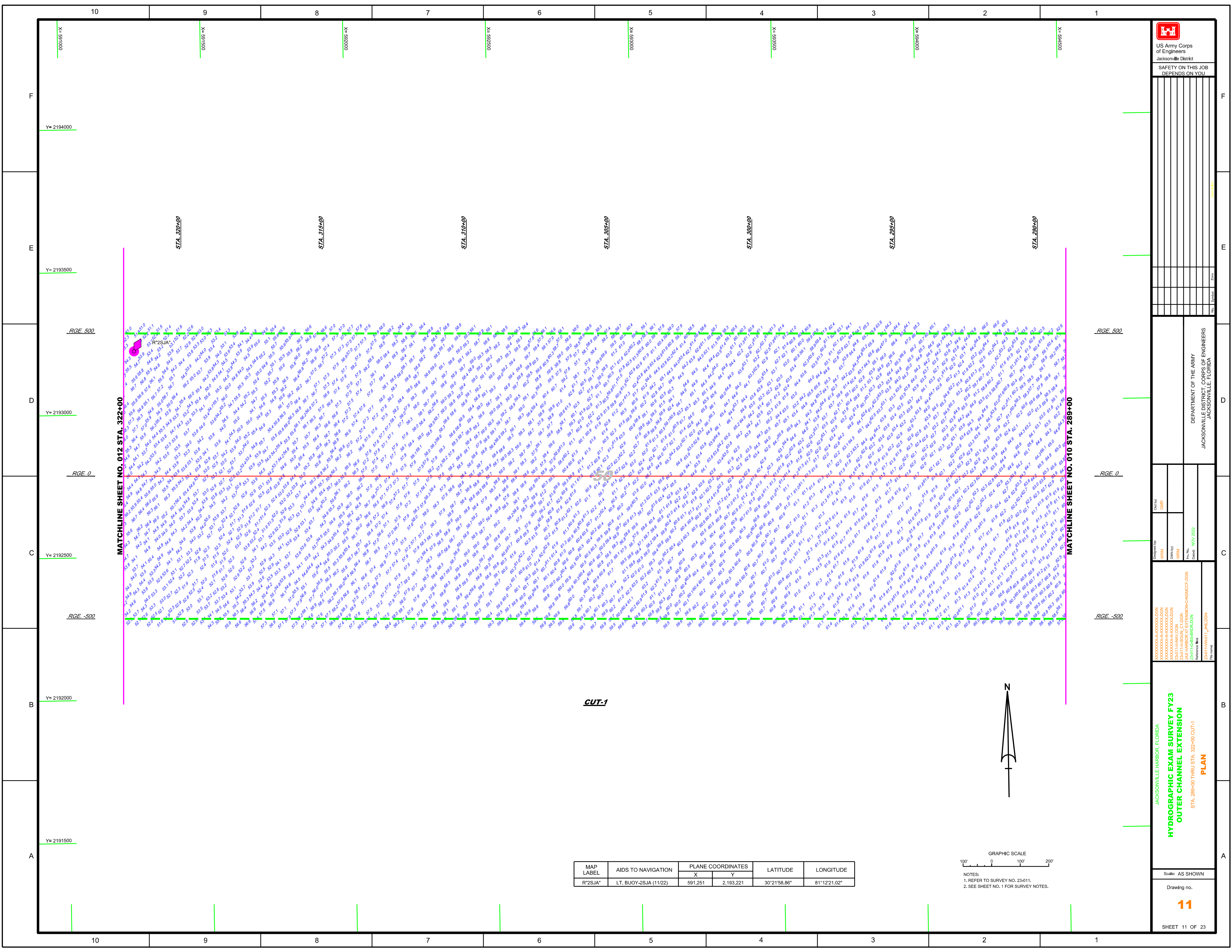
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000009=X

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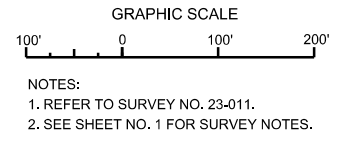

  
 US Army Corps of Engineers  
 Jacksonville District  
 SAFETY ON THIS JOB  
 DEPENDS ON YOU

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

Designed By: WRM  
 Drawn By: WRM  
 Checked: NOV 2022  
 Project: JACK HARBOR EXTENSION-CAIGCC-DCN  
 Reference File: 23-011-HAV-DGN  
 File Name: 23-011-HAV-DGN

JACKSONVILLE HARBOR, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY23  
 OUTER CHANNEL EXTENSION**  
 STA. 289+00 THRU STA. 322+00 CUT-1  
**PLAN**  
 Scale: AS SHOWN  
 Drawing no. **11**  
 SHEET 11 OF 23

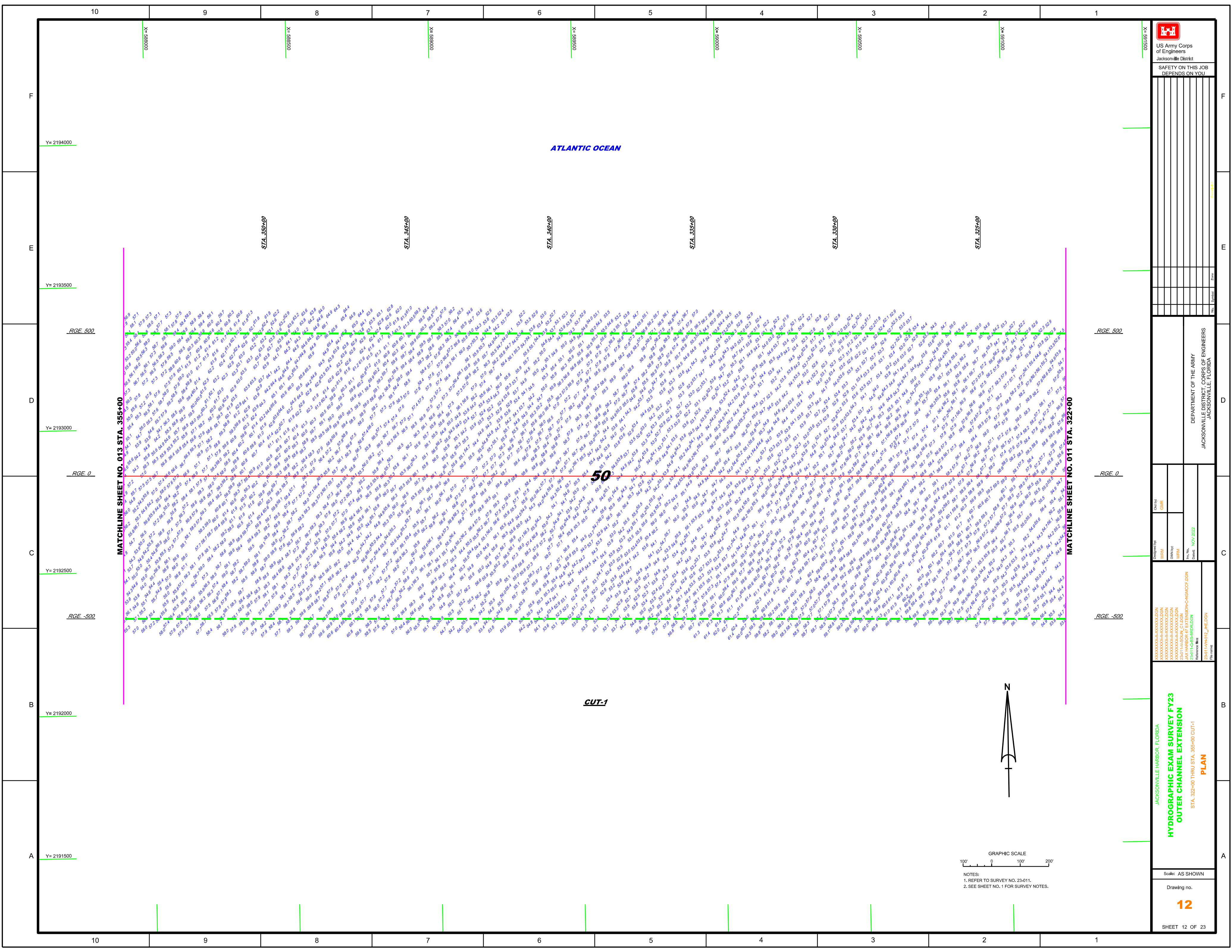
MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R2SJA*	LT. BUOY-2SJA (11/22)	591,251	2,193,221	30°2'58.86"	81°12'21.02"



**CUT-1**

MATCHLINE SHEET NO. 012 STA. 322+00

MATCHLINE SHEET NO. 010 STA. 289+00




ATLANTIC OCEAN

50

CUT-1

MATCHLINE SHEET NO. 013 STA. 355+00

MATCHLINE SHEET NO. 011 STA. 322+00


 US Army Corps of Engineers  
 Jacksonville District  
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DEPARTMENT OF THE ARMY  
 JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
 JACKSONVILLE, FLORIDA

Designated By: **WRM**  
 Drawn By: **WRM**  
 Checked By: **WRM**  
 Date: **NOV 2022**

JACKSONVILLE HARBOR, FLORIDA  
**HYDROGRAPHIC EXAM SURVEY FY23**  
**OUTER CHANNEL EXTENSION**  
 STA. 322+00 THRU STA. 355+00 CUT-1  
**PLAN**

Scale: AS SHOWN  
 Drawing no. **12**  
 SHEET 12 OF 23

GRAPHIC SCALE  
 100' 0 100' 200'  
 NOTES:  
 1. REFER TO SURVEY NO. 23-011.  
 2. SEE SHEET NO. 1 FOR SURVEY NOTES.

