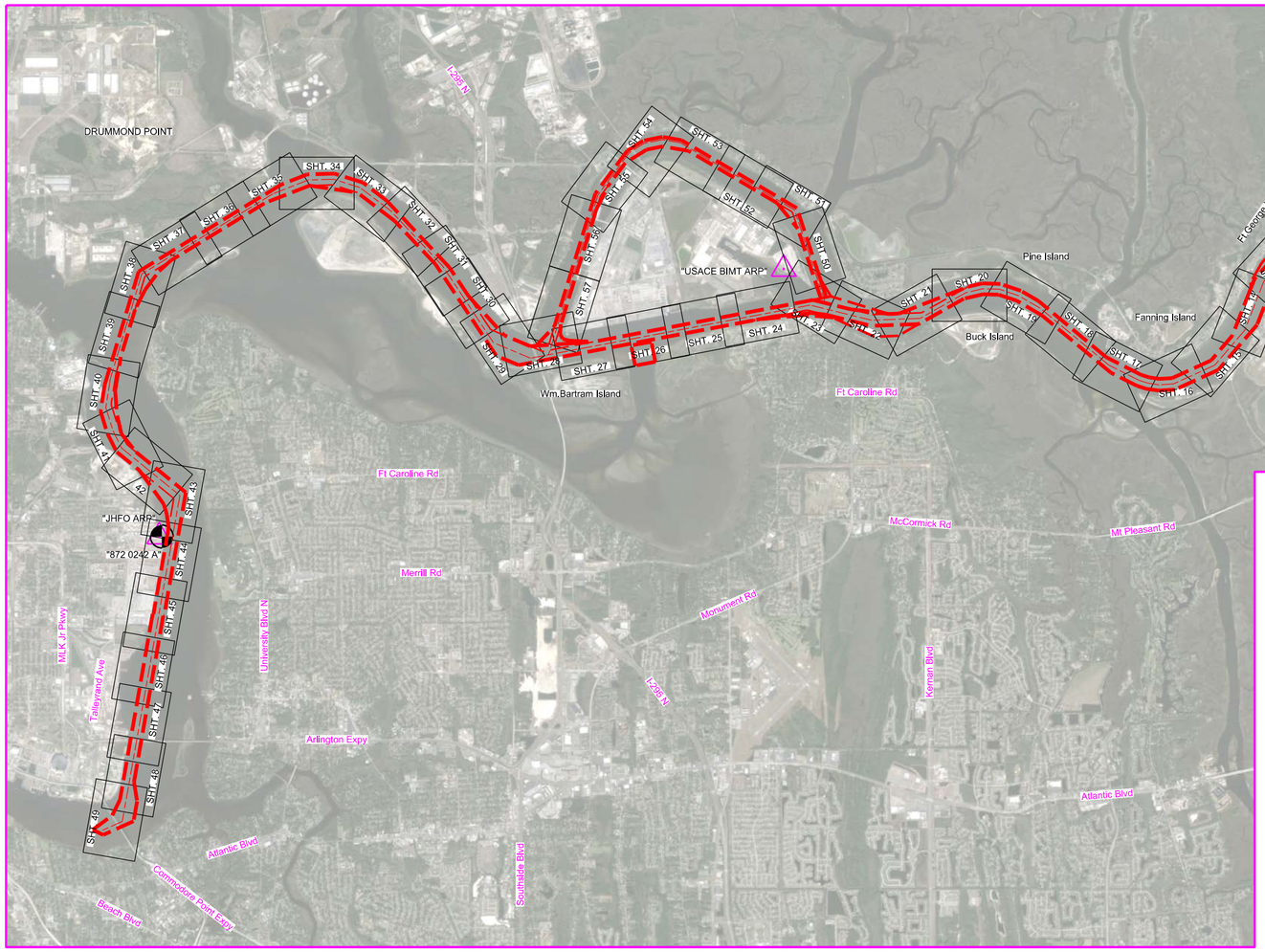
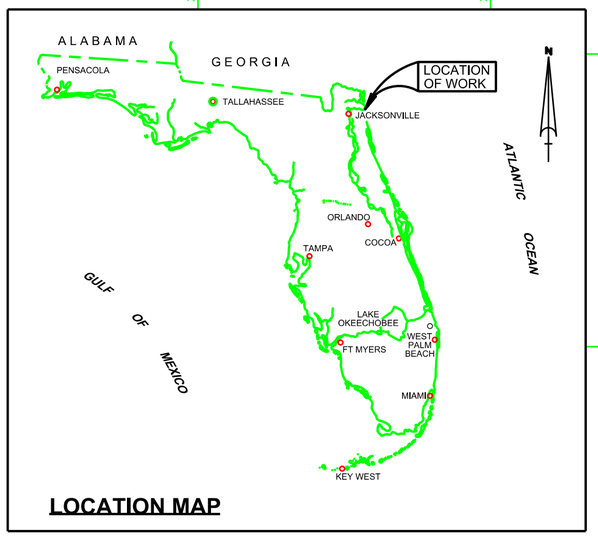
JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAM SURVEY FY22





LOCATION MAP

SURVEY NOTES

1. REFER TO SURVEY NO. 22-001.
2. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER_01FEB2011.KTD".
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
5. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
6. 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 872-0218, BAR PILOTS DOCK
   NOAA TIDAL STATION 872-0221, FULTON LANDING
   NOAA TIDAL STATION 872-0219, DAMES POINT
   NOAA TIDAL STATION 872-0215, NAVY FUEL DEPOT
   NOAA TIDAL STATION 872-0242, LONG BRANCH
7. VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 6205 (550 KHZ), A R2 SONIC 2024 MULTI-BEAM SYSTEM (240 KHZ) AND A TELEDYNE E20 WITH A DUAL-FREQUENCY (28/200 KHZ) SINGLE-BEAM TRANSDUCER. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY (200/240 KHZ) EXCEPT FOR STATIONS 20+00 TO 65+00 OF THE TERMINAL CHANNEL WHICH ARE SHOWN IN LOW FREQUENCY (28 KHZ).

VESSEL	DATE OF SURVEY	CUT
SB-44	17 NOV 2021	CUTS 14 THRU 19
SB-44	18 NOV 2021	CUTS 4 THRU 6
SB-44	30 NOV 2021	CUTS 52 THRU 55
SB-44	02 DEC 2021	CUTS 50-51
SV SALZER	08-09 DEC 2021	BAR CUT-3
SV SALZER	09-10 DEC 2021	CUT-7
SV SALZER	09 DEC 2021	BAR CUT-3
SV SALZER	10, 13 DEC 2021	CUTS 39 THRU 42
SB-44	28 DEC 2021	CUTS 45 THRU 49
SB-44	29 DEC 2021	CUTS 43-44
SV SALZER	12 DEC 2021, 10 JAN 2022	CUTS A & B
SV SALZER	12-13 JAN 2022	CUTS F, G AND 42
SV SALZER	13 JAN 2022	CUTS 8 THRU 13
SV SALZER	19 JAN 2022	UPPER TERMINAL CHANNEL
SV WELLS	24-25 JAN 2022	LOWER TERMINAL CHANNEL

8. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

   REFERENCE BASE LOCATED AT "CHARLIE TOWER ARP" (OPUS PID: BBDC09)

   REFERENCE BASE LOCATED AT "USACE BIMT ARP" (OPUS PID: BBGM25)

   REFERENCE BASE LOCATED AT "USACE JHFO ARP" (OPUS PID: BBGL18)
9. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY AS WELL AS DURING SURVEY 21-247.
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.

N

GRAPHIC SCALE

3000' 0 3000' 6000'

AUTHORIZED PROJECT DEPTH	
42 FT	CUT - 3 (BAR CUT), STA. 0+00 THRU STA. 210+00
40 FT	CUT - 3 (BAR CUT) STA. 210+00 THRU TERMINAL CHANNEL STA. 65+00.
34 FT	TERMINAL CHANNEL, STA. 65+00 THRU STA. 186+21 (APPROX. 1200 FEET UPSTREAM FROM THE HART BRIDGE NEAR COMMODORE POINT).
30 FT	CUT-A, STA. 0+00 THRU 53+10.21
38 FT	OLD RIVER BLOUNT ISLAND (WESTSIDE) CHANNEL CUT-F, STA. 10+00 - NEAR WOODEN FISHING BRIDGE PIER THRU INTERSECTION OF CUT - 42 (DAMES PT. - FULTON CUT - OFF

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

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: WRM
Drawn by: WRM
Cad by: GMR
Proj. No.
Date: JAN 2022

XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
22-001-GRS-BRDR.DGN
Reference files
22-001-VR-001.DGN
Raster

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT

INDEX, LOCATION AND VICINITY

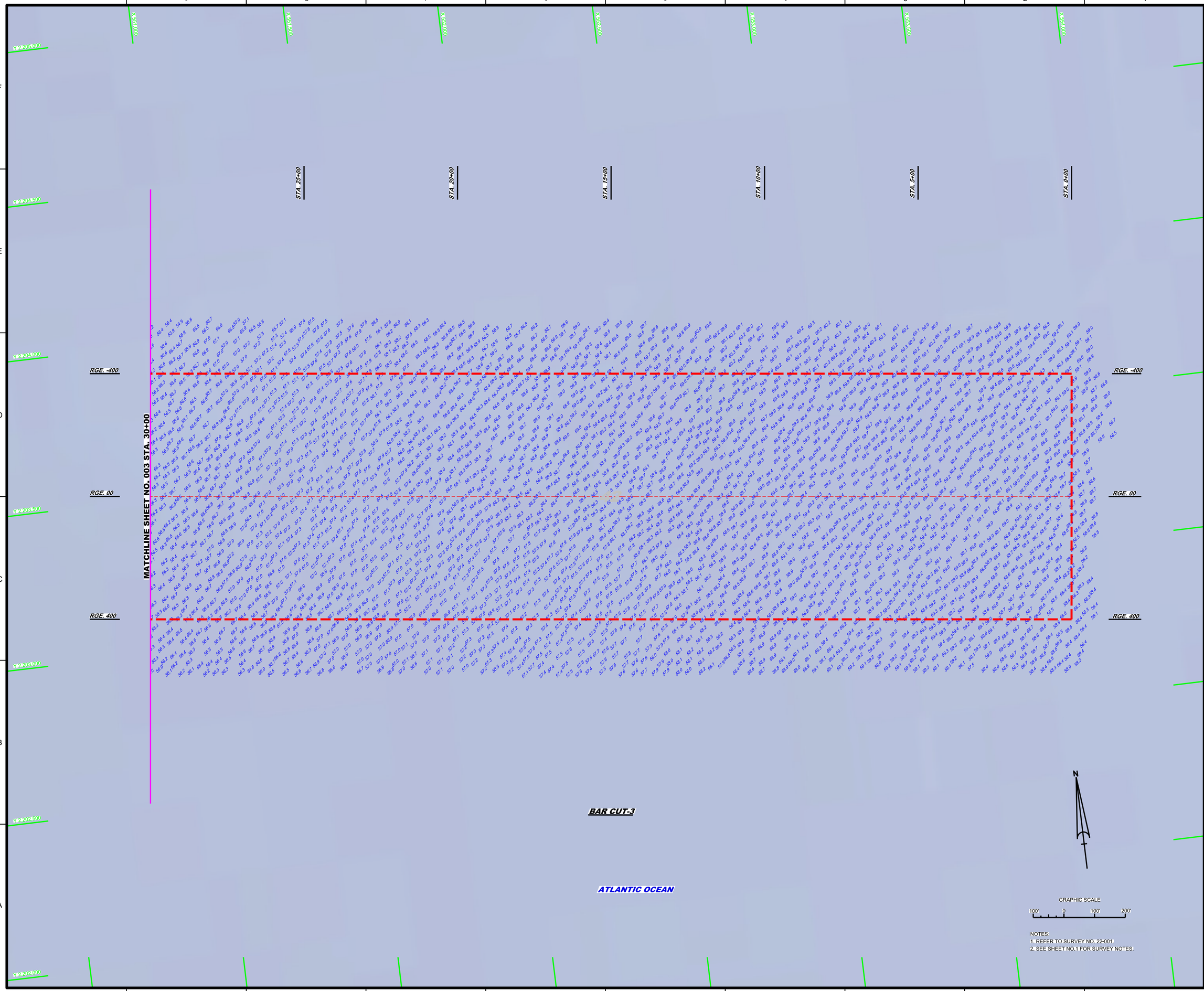
MAP

Scale: AS SHOWN

Drawing no.

1

SHEET 01 OF 57



NOTES:
1. REFER TO SURVEY NO. 22-001.
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: WRM
DWN by: WRM
Ckd by: GMR
Proj. No.
Date: JAN 2022

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
22-001-A-SQUA_EC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
22-2014-CB-SPGR.DGN
Reference files
22-001-VH-002.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 0+00 THRU STA. 30+00 BAR CUT-3

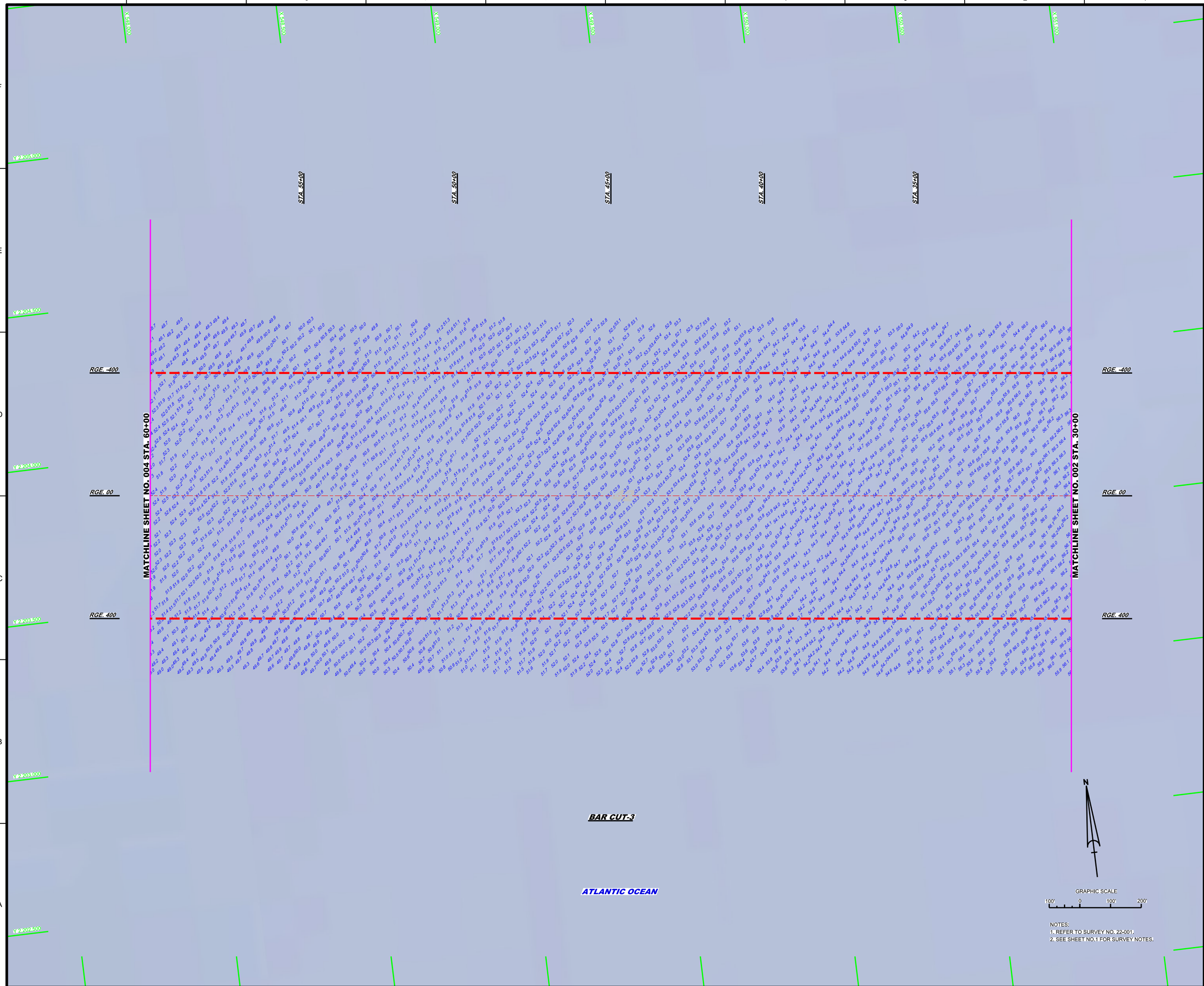
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 57



NOTES:
1. REFER TO SURVEY NO. 22-001.
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
Drawn by: VIRM
Checked by: CMR
Rev. No.
Date: JAN 2022

XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
22-001-H-SOUN_BCL.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
22-001-H-SHEETS.DGN
Reference files:
22-001-VH-003.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 30+00 THRU STA. 60+00 BAR CUT-3

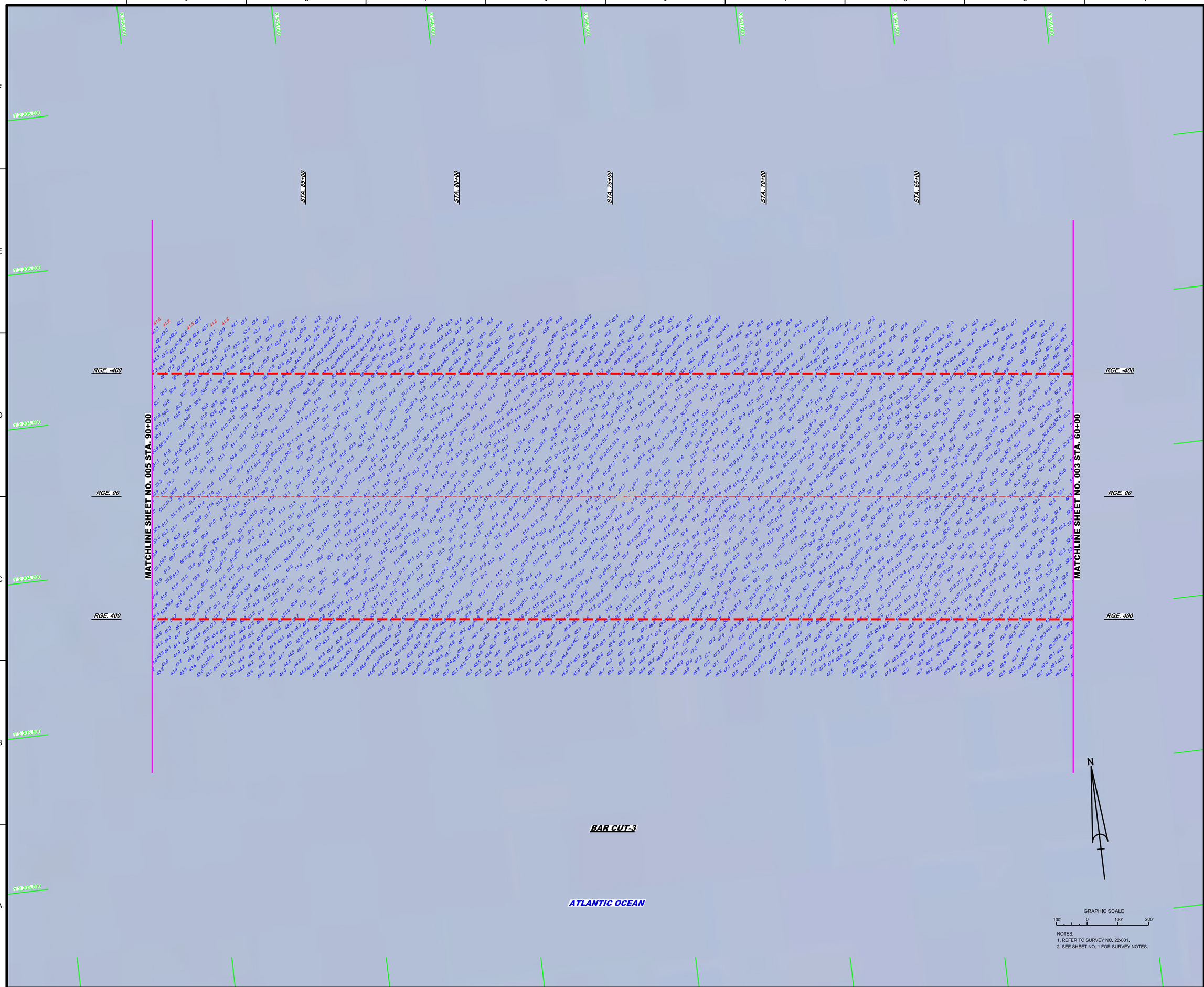
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 57



NOTES:
1. REFER TO SURVEY NO. 22-001.
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.
Date: JAN 2022

JAXWIBR_XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX-XXXXXXX.DGN
22-001-X-SCUM_BCL.DGN
JAXWIBR_HYBRID_MAR2013_NAD83HARN.DGN
22-001-H-BS-BNDR.DGN
Reference files:
22-001-VH-004.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 60+00 THRU STA. 90+00 BAR CUT-3

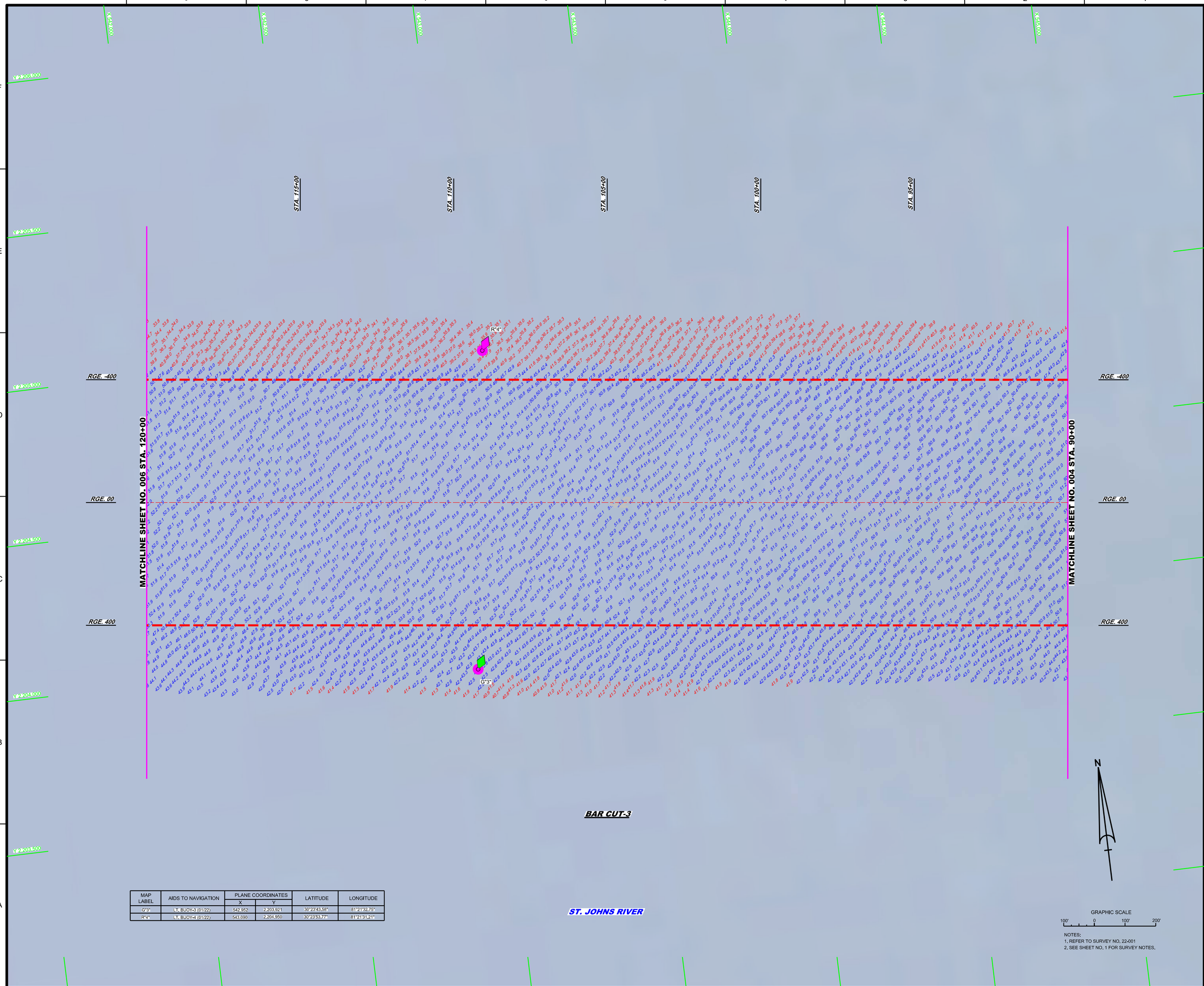
PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 57



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT. BUOY-3 (01/22)	542,952	2,203,921	30°23'43.58"	81°21'32.75"
R"4"	LT. BUOY-4 (01/22)	543,090	2,204,950	30°23'53.77"	81°21'31.21"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 22-001
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
Drawn by: VIRM
Checked by: CMR
Rev. No.
Date: JAN 2022

XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
22-001-H-SOUN_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
22-001-H-SHEET-BAR-CUT-3.DGN
22-001-H-SHEET-BAR-CUT-3.DGN
Reference files:
22-001-VH005.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 90+00 THRU STA. 120+00 BAR CUT-3

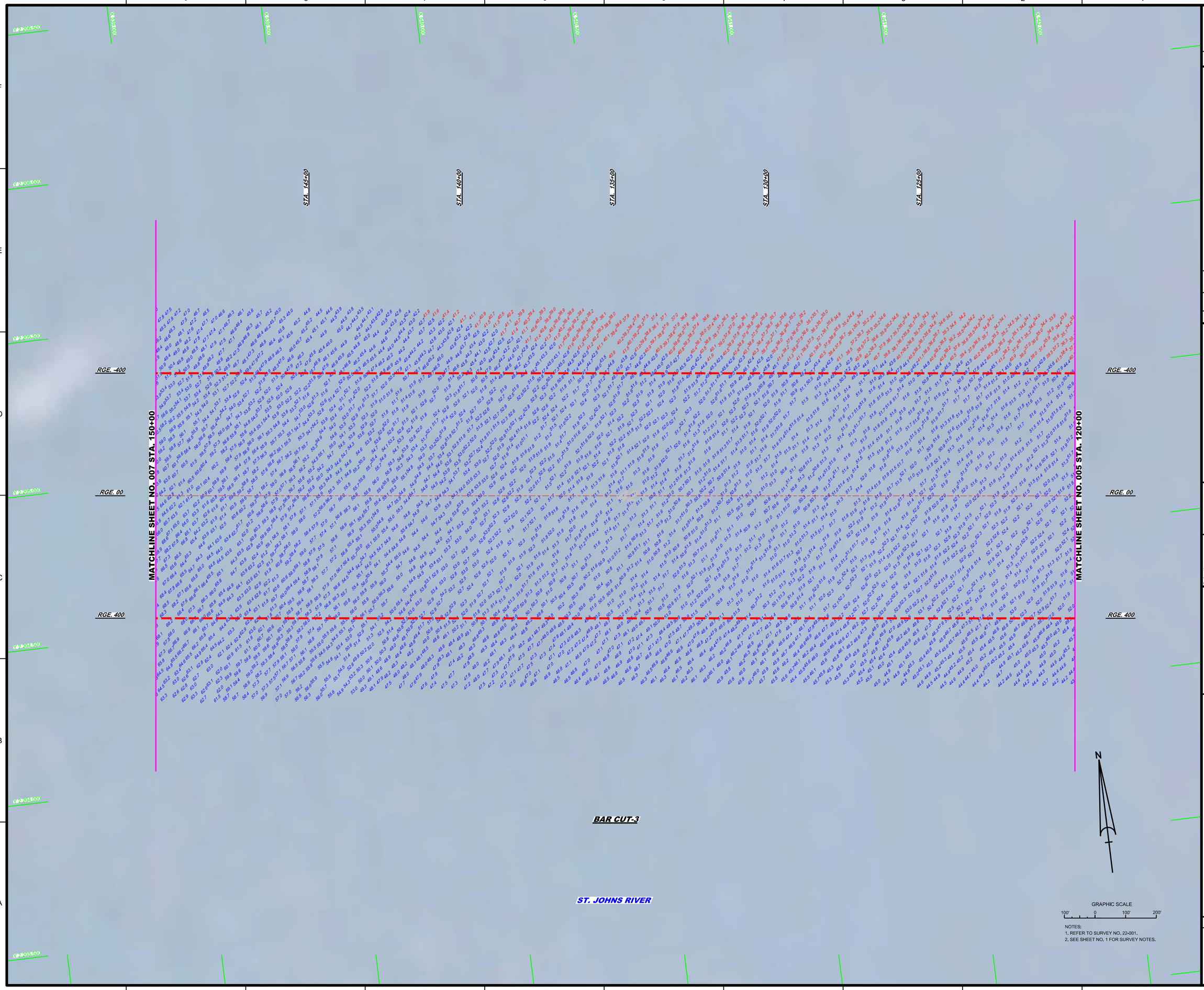
PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 5 OF 54



NOTES:
1. REFER TO SURVEY NO. 22-001.
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

Cad by: CMR
Designed by: WRM
DWN by: WRM
Rev. No.
Date: JAN 2022

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
22-001-A-SOUN_BCS.DGN
JAXHIBR_HYBRID_MAR2013_NAD83HARN.DGN
22-001-CASE-BRDR.DGN
Reference files:
22-001-VH-006.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT
STA. 120+00 THRU STA. 150+00 BAR CUT-3

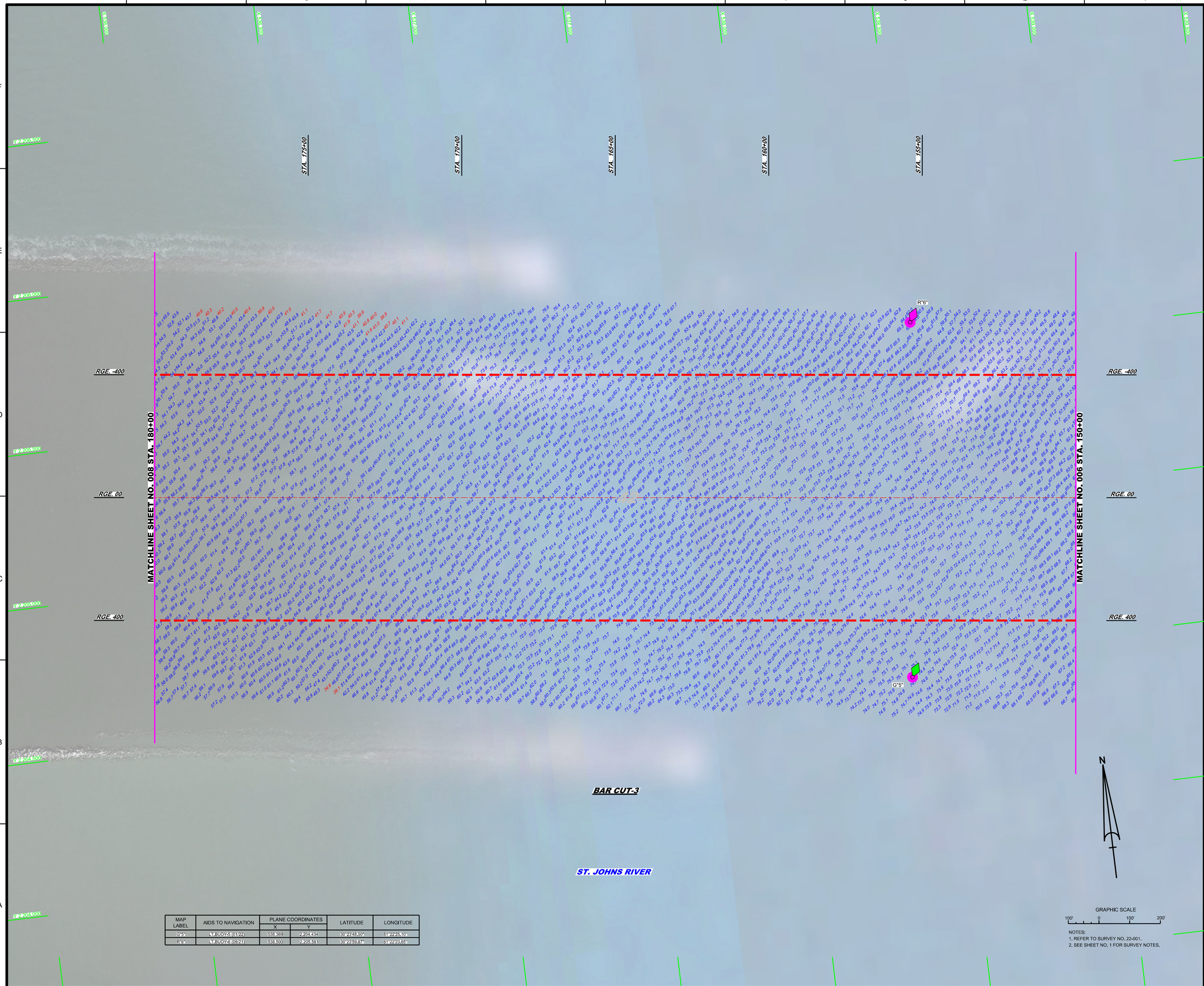
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 57



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"5"	LT.BUOY-5 (01/22)	538,369	2,204,434	30°23'48.50"	81°22'25.10"
R"6"	LT.BUOY-6 (09/21)	538,500	2,205,581	30°23'59.87"	81°22'23.65"

NOTES:
1. REFER TO SURVEY NO. 22-001.
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
Chk'd by: CMR
Rev. No.
Date: JAN 2022

Reference files:
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XXXXXXX.DGN
22-001-VA-SOUN_BC3.DGN
JAXWBR_HYBRID_MAR2013_NAD83HARN.DGN
22-001-CES-SNDR.DGN
22-001-VH-007.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 150+00 THRU STA. 180+00 BAR CUT-3

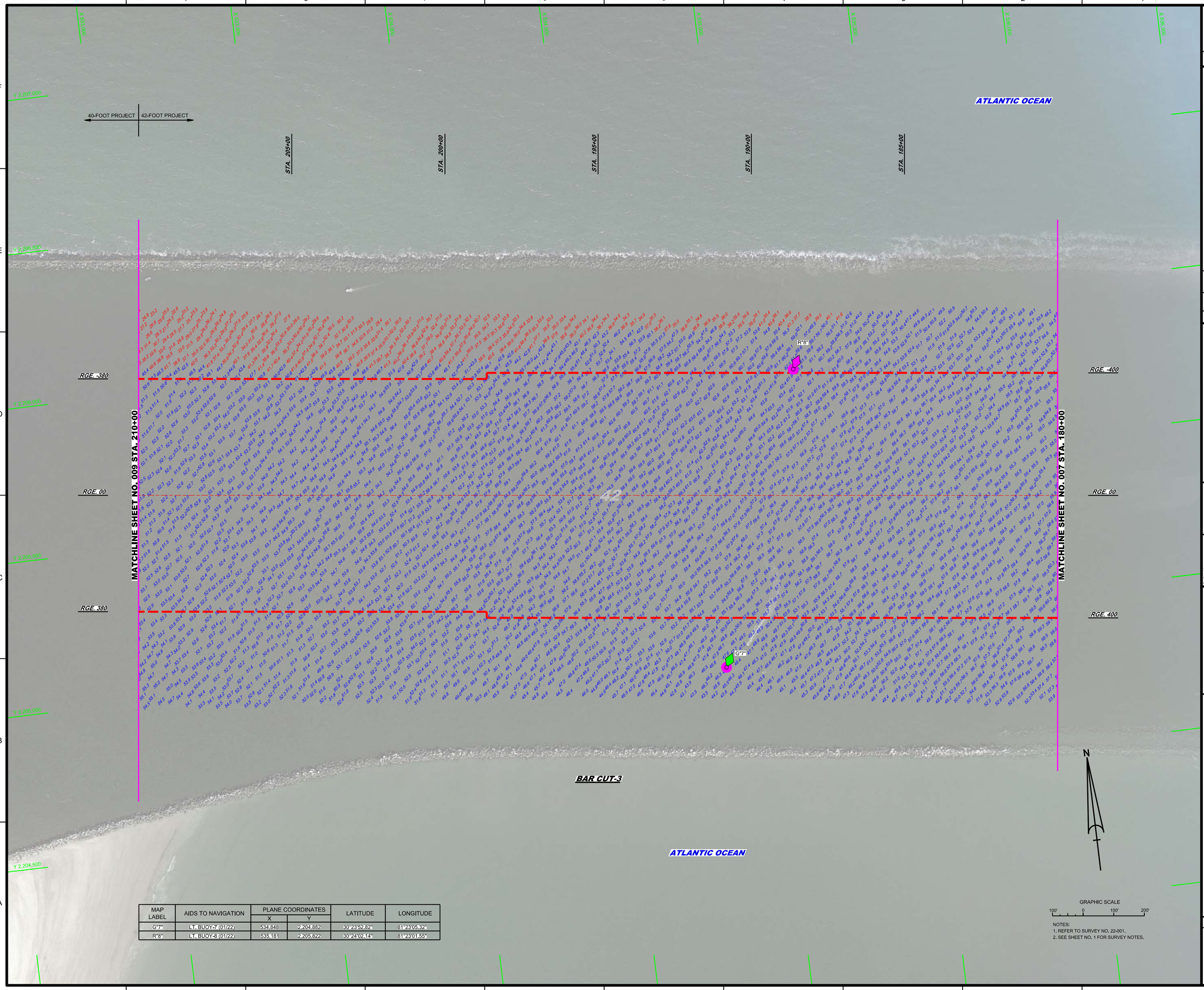
PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 57



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"7"	LT. BUOY-7 (01/22)	534,848	2,204,882	30°23'52.82"	81°23'05.32"
R"8"	LT. BUOY-8 (01/22)	535,181	2,205,822	30°24'02.14"	81°23'01.55"

NOTES:
1. REFER TO SURVEY NO. 22-001.
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

Cad by: CMR
Designed by: WRM
DWN by: WRM
Rev. No.
Date: JAN 2022

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-XX-XXXXX.DGN
XXXXXXXX-X-XXXXX.DGN
22-001-VH-008.DGN
22-001A-SOUN_BCS.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
22-001-CASE-BRDR.DGN
Reference files:
22-001-VH-008.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT
STA. 180+00 THRU STA. 210+00 BAR CUT-3

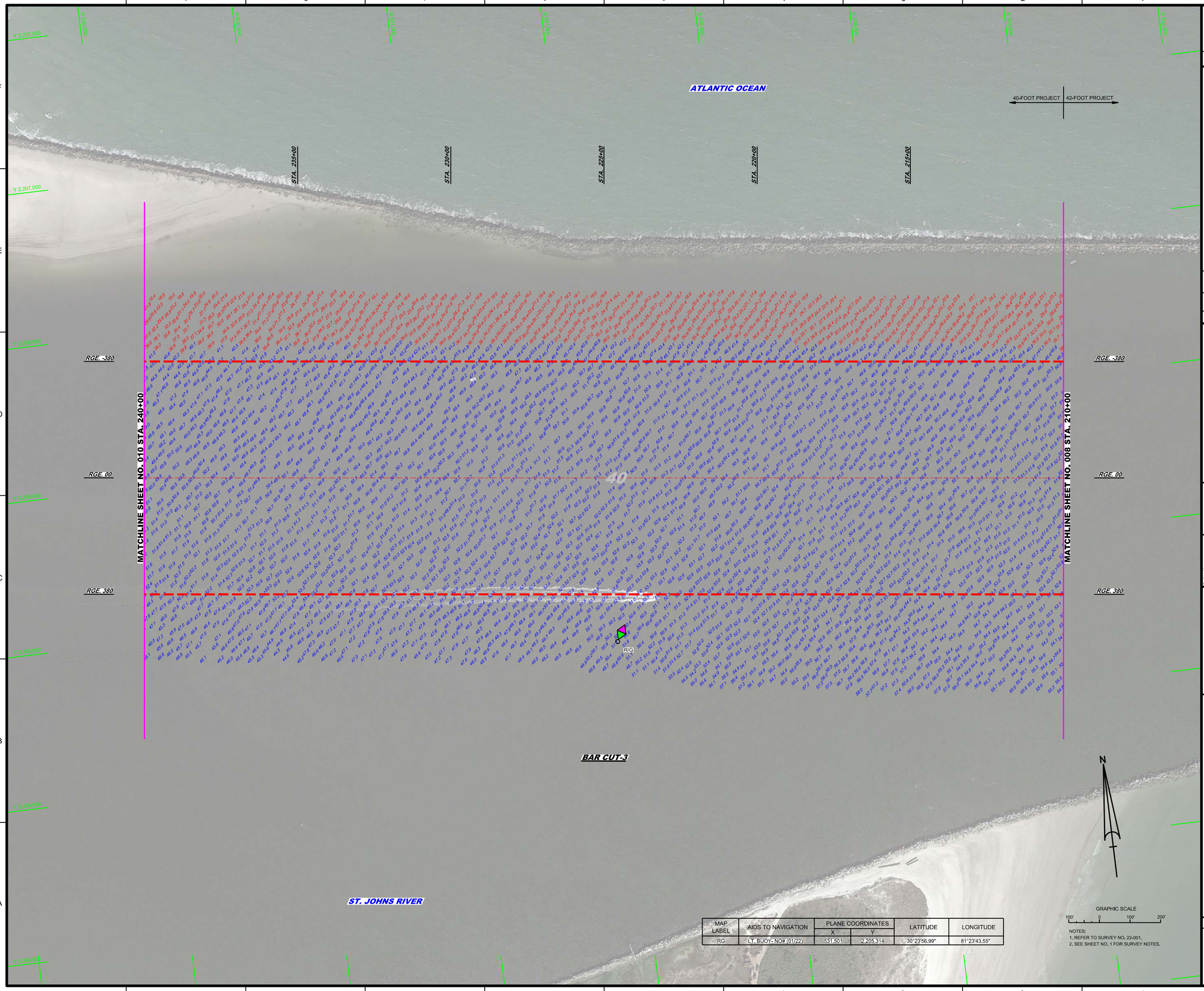
PLAN

Scale: AS SHOWN

Drawing no.

8

SHEET 08 OF 57



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
RG	LT. BUOY- NO# (01/22)	531,501	2,205,314	30°23'56.99"	81°23'43.55"

NOTES:
1. REFER TO SURVEY NO. 22-001.
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
Date: JAN 2022

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
22-001-A-SOUN_EC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
22-2014-C-BR-BRDR.DGN
Reference files:

22-001-HH-009.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 210+00 THRU STA. 240+00 BAR CUT-3

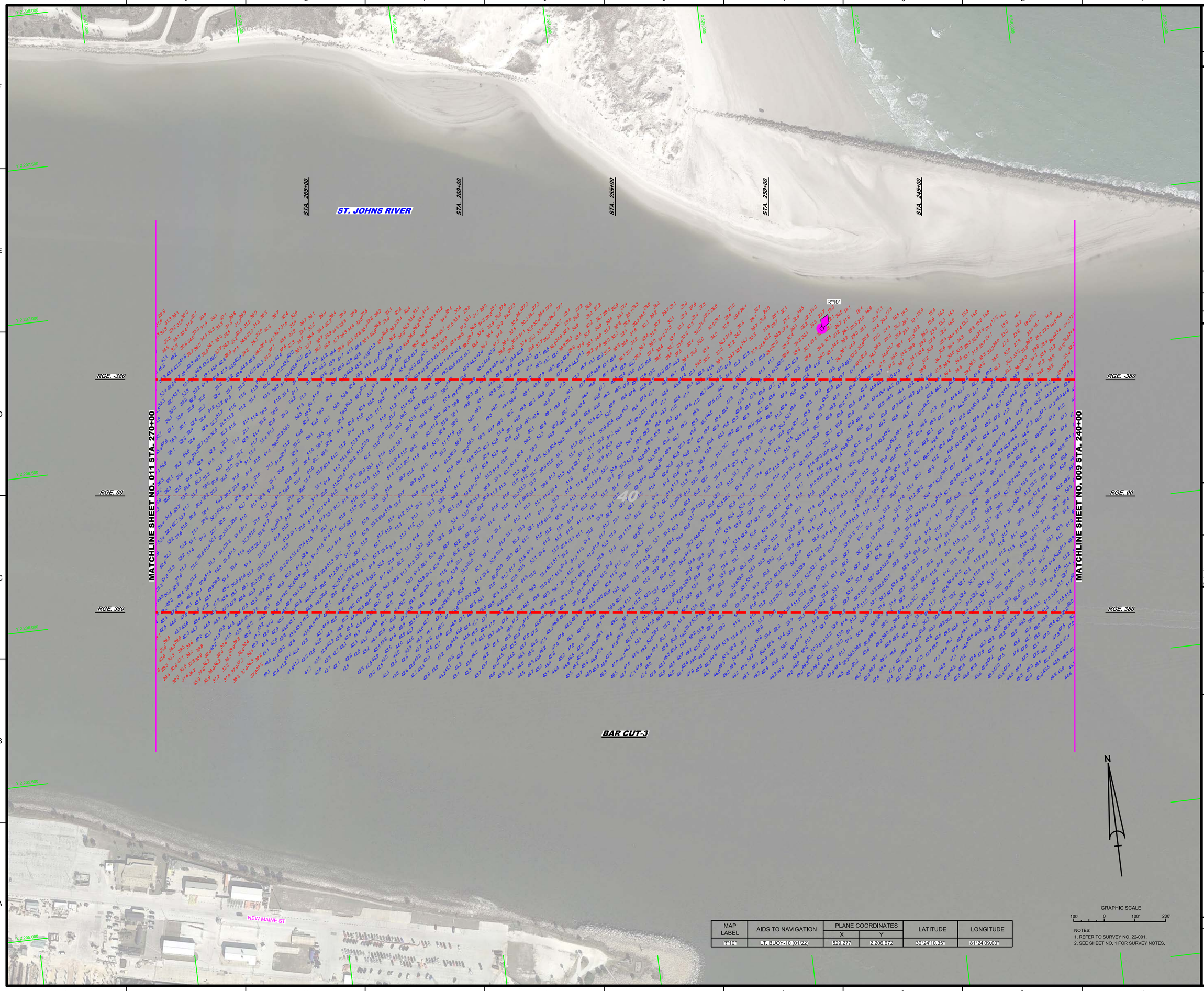
PLAN

Scale: AS SHOWN

Drawing no.

9

SHEET 09 OF 57



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"10"	LT. BUOY-10 (01/22)	529,277	2,206,672	30°24'10.35"	81°24'09.00"

NOTES:
1. REFER TO SURVEY NO. 22-001.
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
Drawn by: VIRM
Checked by: CMR
Rev. No.
Date: JAN 2022

XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
XXXXXXXXX-XXXXXX.DGN
22-001-HYDRO.DGN
22-001-NSUM_BC3.DGN
JAXHBR_HYBRID_MAR2013_NAD83HARN.DGN
22-001-C-ES-SHDR.DGN
Reference files:
22-001-VH-010.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

ANNUAL EXAMINATION SURVEY FY22
30, 34, 38, 40 & 42-FOOT PROJECT

STA. 240+00 THRU STA. 270+00 BAR CUT-3

PLAN

Scale: AS SHOWN

Drawing no.

10

SHEET 10 OF 57