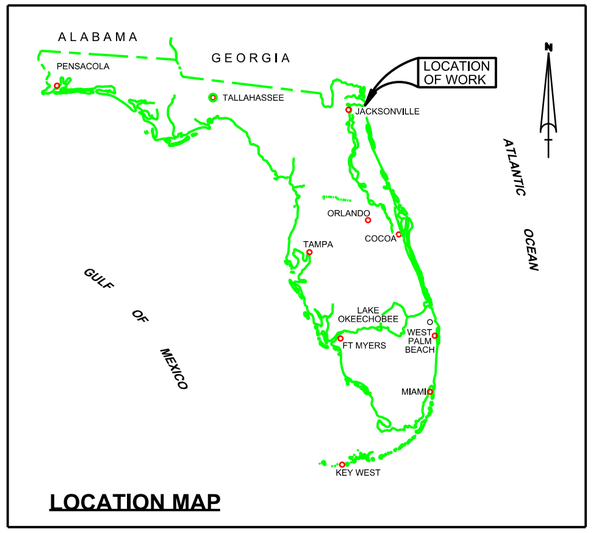
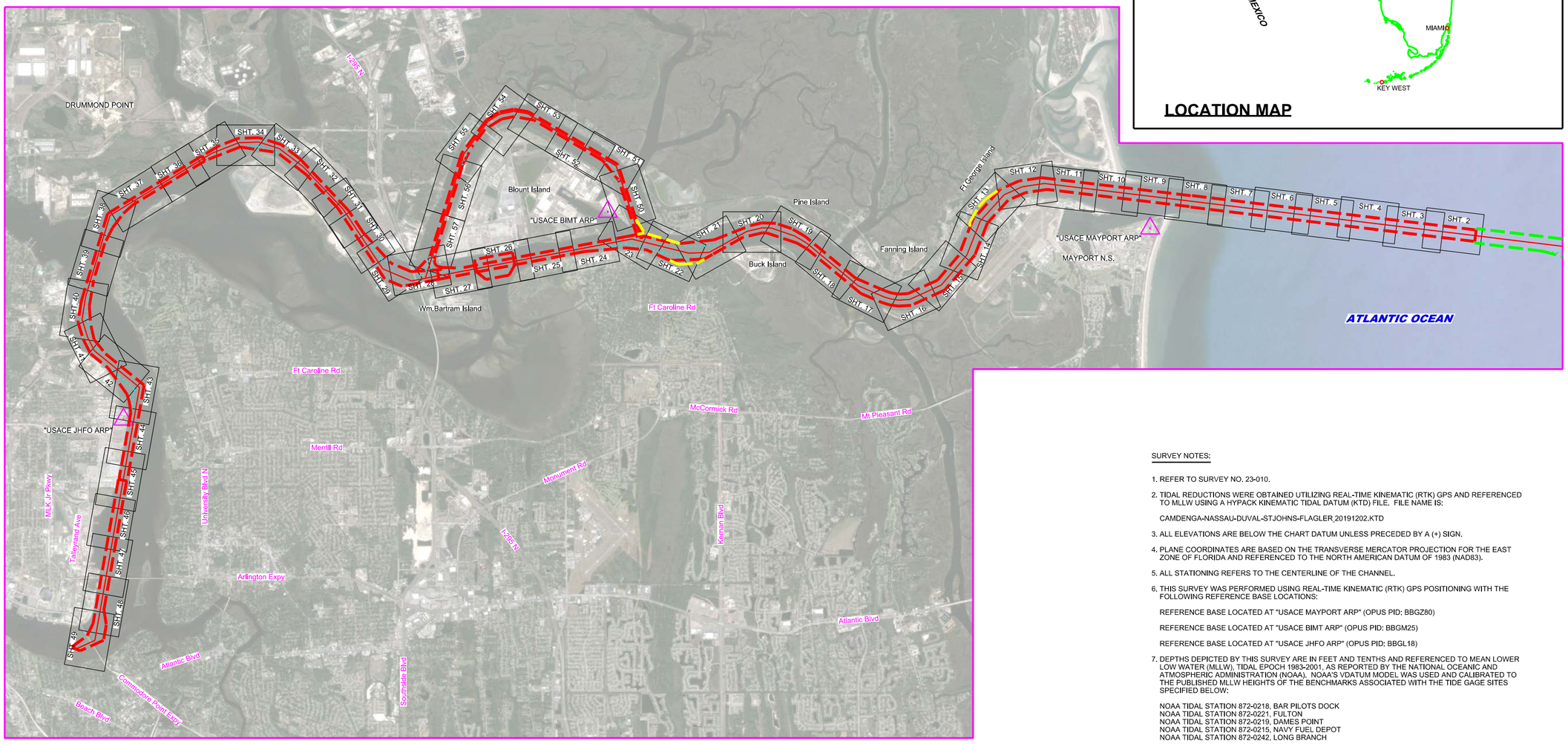
JACKSONVILLE HARBOR, FLORIDA
1st QUARTER EXAM SURVEY FY23
30, 34, 38, 47 & 49-FOOT PROJECT



LOCATION MAP



SURVEY NOTES:

1. REFER TO SURVEY NO. 23-010.
2. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW USING A HYPACK KINEMATIC TIDAL DATUM (KTD) FILE. FILE NAME IS:

   CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER_20191202.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 THE NORTH AMERICAN DATUM OF 1983 (NAD83).
5. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
6. 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: BBGZ80)

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

   REFERENCE BASE LOCATED AT "USACE JHFO ARP" (OPUS PID: BBGL18)
7. 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 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
   NOAA TIDAL STATION 872-0219, DAMES POINT
   NOAA TIDAL STATION 872-0215, NAVY FUEL DEPOT
   NOAA TIDAL STATION 872-0242, LONG BRANCH
8. VERTICAL MEASUREMENTS WERE MADE USING A R2 SONIC MODEL 2026 MULTI-BEAM SYSTEM (240 KHZ), A RESON T50P MULTI-BEAM SYSTEM (300 KHZ), AND AN EDGETECH 6205 MULTI-BEAM / SIDESCAN OPERATING AT 550 KHZ. ALL SINGLE-BEAM SOUNDING WERE MADE WITH A TELEDYNE E20 OPERATING AT 28/200 KHZ. ALL SOUNDINGS ARE SHOWN IN HIGH FREQUENCY EXCEPT FOR TERMINAL CHANNEL STATIONS 0+00 - 72+00 WHICH ARE IN LOW FREQUENCY (28 KHZ),

VESSEL	DATE OF SURVEY	AREA SURVEYED
SV FLORIDA II	01-02 NOV 2022	BAR CUT-3
SB-44	01 NOV 2022	UPPER TERMINAL CHANNEL
SB-44	02 NOV 2022	CUTS 52 - 55
SV FLORIDA II	07 NOV 2022	CUTS 4 - 6
SB-36	08 NOV 2022	CUTS 16 - 19
SV FLORIDA II	08 NOV 2022	CUTS 7 - 16
SV FLORIDA II	15 NOV 2022	MAYPORT ENTRANCE CHANNEL
SB-36	21 NOV 2022	CUTS 47 - 51
SB-36	22 NOV 2022	CUTS 43 - 46, CUT-G, CUT-F
SB36 & SB-44	23 NOV 2022	CUTS 39 - 42
SB-36	28 NOV 2022	CUTS A & B
SB-WELLS	30 NOV - 01 DEC 2022	LOWER TERMINAL CHANNEL

9. AIDS TO NAVIGATION WERE LOCATED FOR 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 SURVEY.
11. 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.

N

GRAPHIC SCALE
3000' 0 3000' 6000'

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

Cad by: CJMB
Designed by: WRM
DWN by: VRM
Rev. No.
Date: JUL 2022

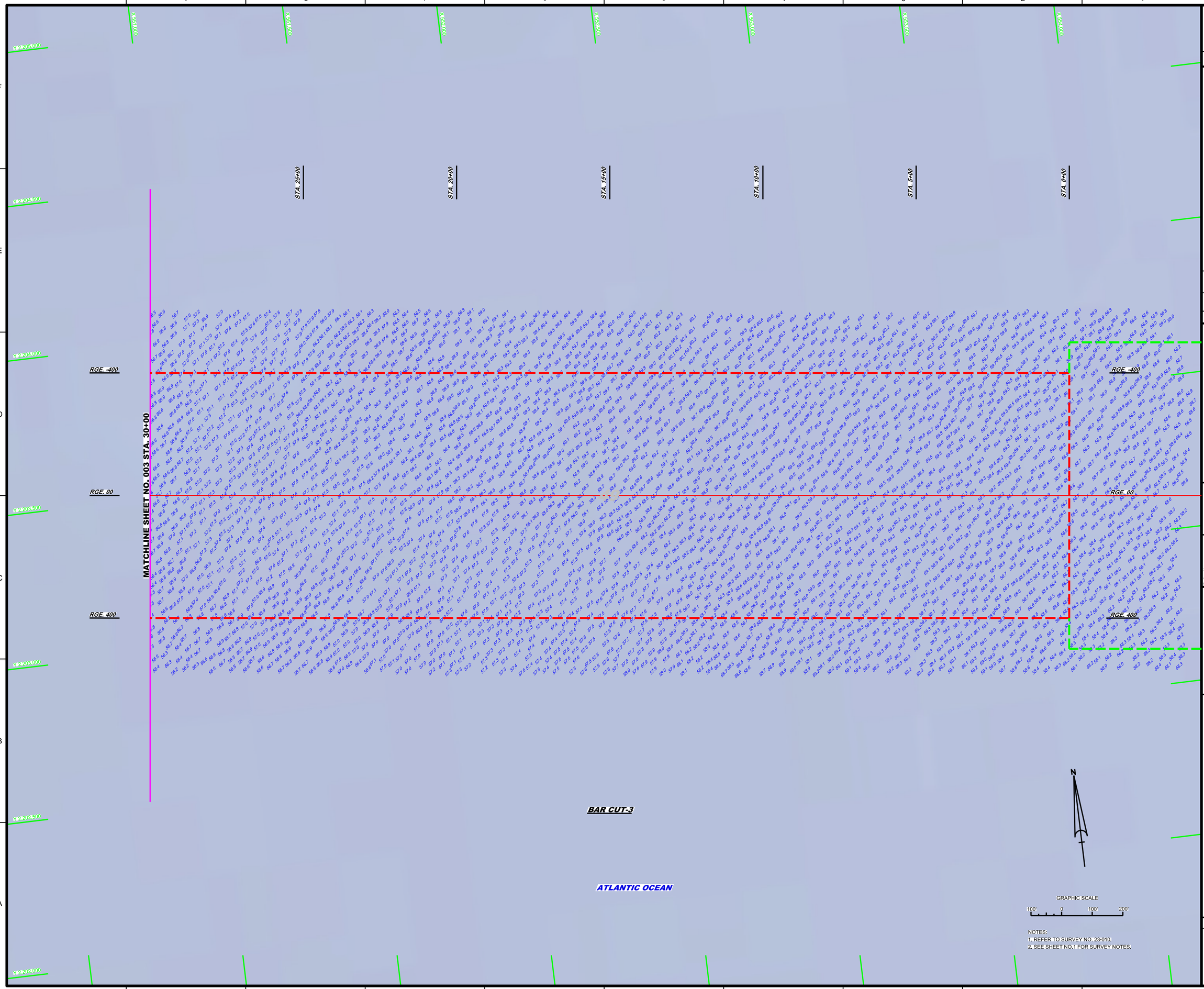
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
JAX HARBOR 47 EXTENSION-CNGMCCF.DGN
Reference files:
23-010-VH-001.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA
3rd QUARTER EXAM SURVEY FY22
30, 34, 38, 40, 47 & 49-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 57



NOTES:
1. REFER TO SURVEY NO. 23-010.
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: VIRM
DWN by: VIRM
Rev. No.
Date: NOV 2022

XXXXXXXXXX-XXXXXXXX.DGN
XXXXXXXXXX-XXXXXXXX.DGN
XXXXXXXXXX-XXXXXXXX.DGN
XXXXXXXXXX-XXXXXXXX.DGN
XXXXXXXXXX-XXXXXXXX.DGN
23-010-VSCALE-ALL-CUTS.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
23-010-C-ES-BRDR.DGN
Reference files:
23-010-VH-002.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

1st QUARTER EXAM SURVEY FY23
30, 34, 38, 40, 47 & 49-FOOT PROJECT

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

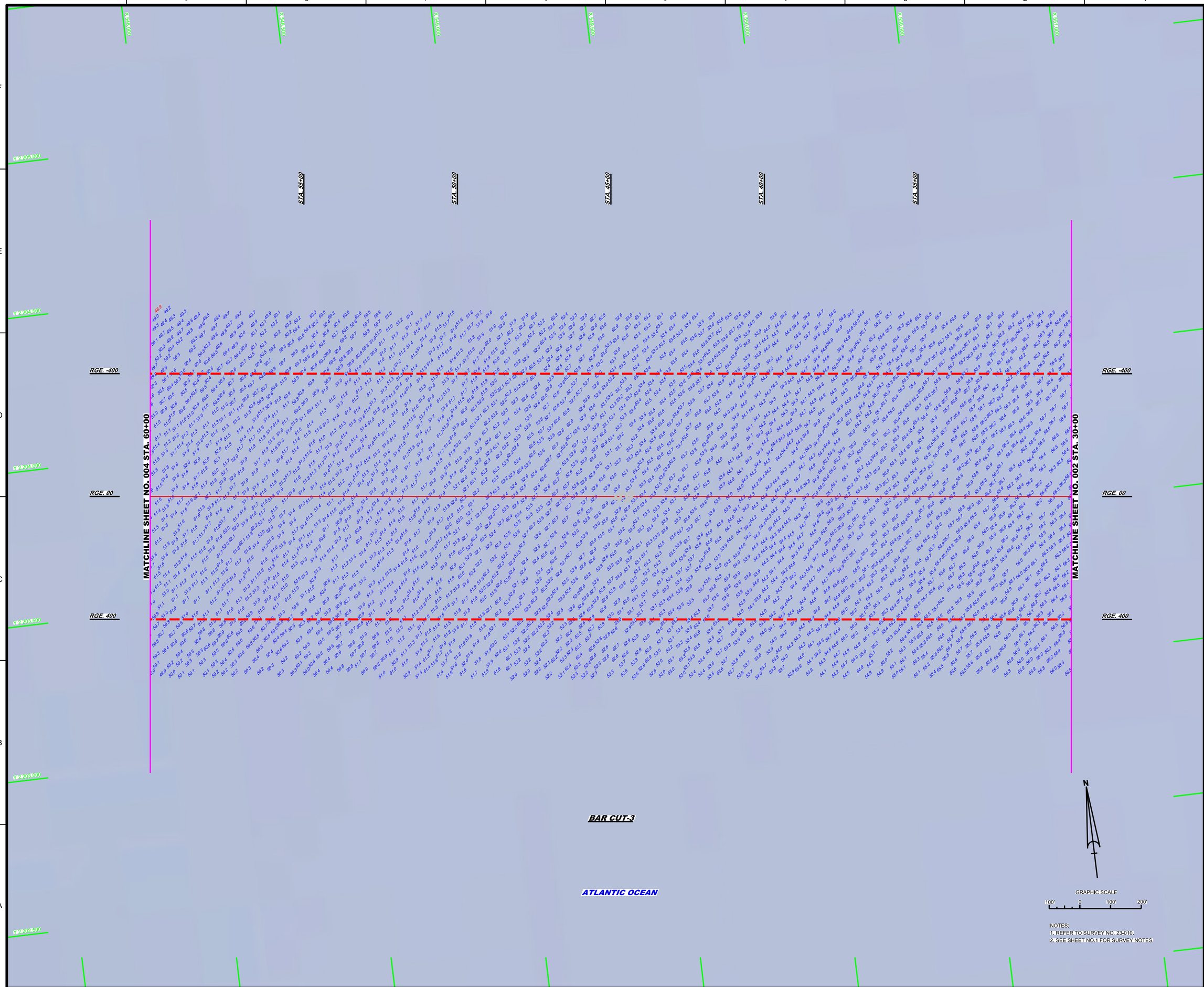
PLAN

Scale: AS SHOWN

Drawing no.

2

SHEET 02 OF 57



NOTES:
1. REFER TO SURVEY NO. 23-010.
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: NOV 2022

X:\XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
23-010-LVSCUN_ALL CUTS.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
23-010-LVS-BRDR.DGN
23-010-LVH-003.DGN

Reference files:
File name:

JACKSONVILLE HARBOR, FLORIDA

1st QUARTER EXAM SURVEY FY23
30, 34, 38, 40, 47 & 49-FOOT PROJECT

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

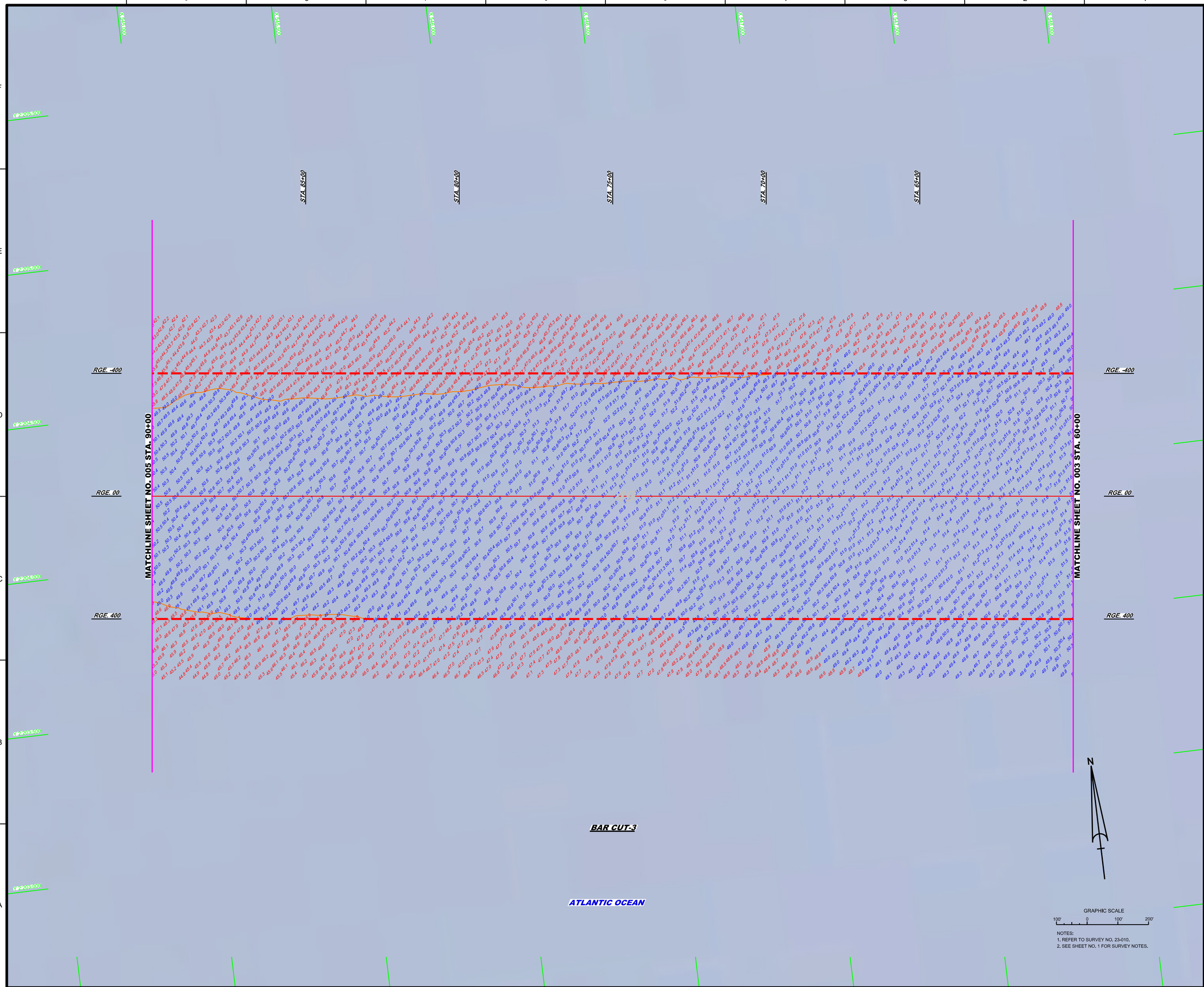
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 57



NOTES:
1. REFER TO SURVEY NO. 23-010.
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: GMR
Rev. No.
Date: NOV 2022

XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXX.DGN
23-010-XXXXXXXXXX.DGN
23-010-VUL-SOUN_ALCUTS.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
23-010-CESHBORX.DGN
Reference files:
23-010-VH-004.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

1st QUARTER EXAM SURVEY FY23
30, 34, 38, 40, 47 & 49-FOOT PROJECT

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

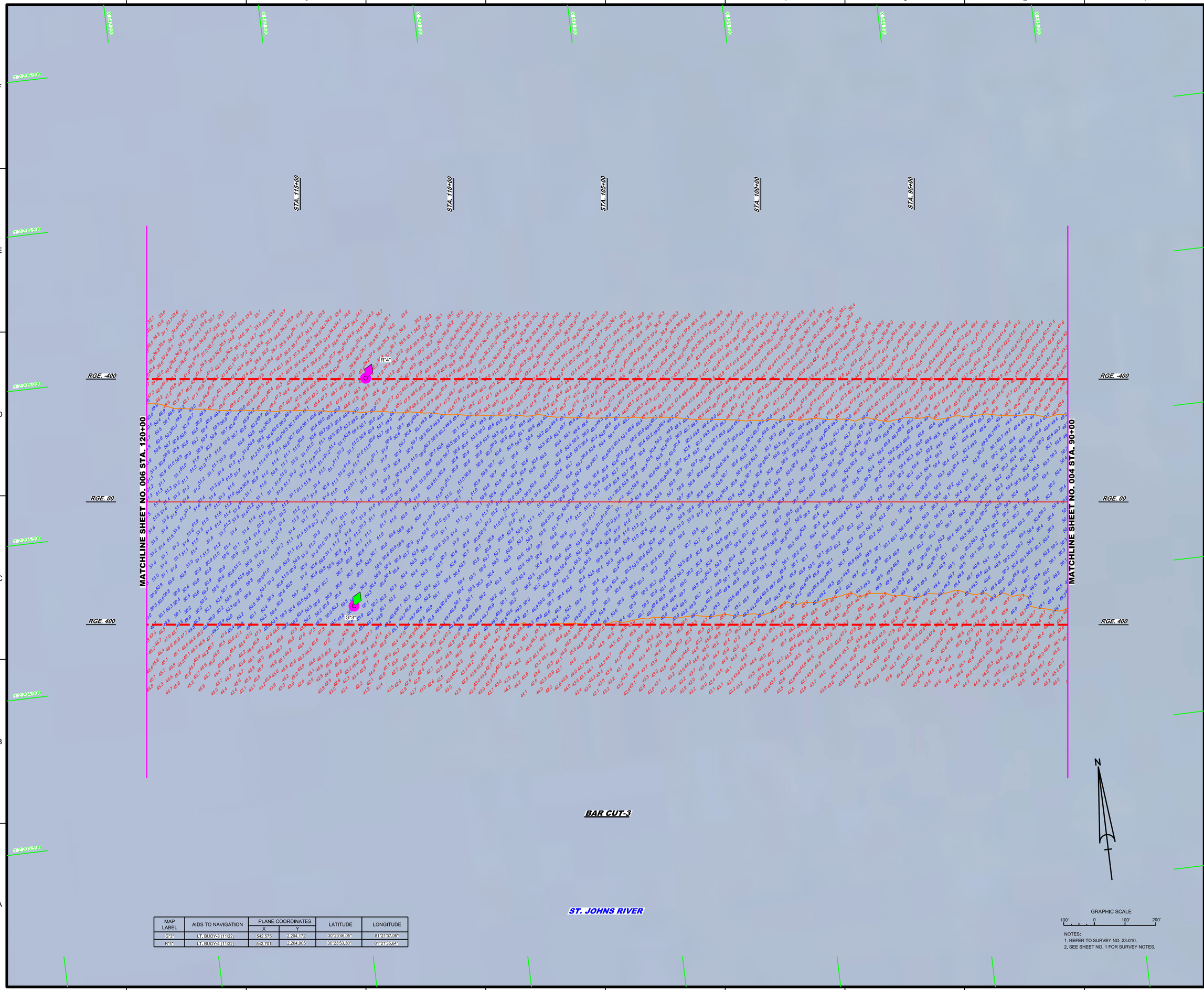
PLAN

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 (11/22)	542,575	2,204,172	30°23'46.05"	81°21'37.06"
R"4"	LT. BUOY-4 (11/22)	542,701	2,204,905	30°23'53.30"	81°21'35.64"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 23-010.
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: NOV 2022

XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
XXXXXXXXX-XXXXXXX.DGN
23-010-V-C-02H49.DGN
23-010-V-C-02H50.DGN
23-010-V-SOUN_ALCUTS.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
23-010-V-C-05-SHDR.DGN
Reference files:
23-010-V-H005.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

1st QUARTER EXAM SURVEY FY23
30, 34, 38, 40, 47 & 49-FOOT PROJECT

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

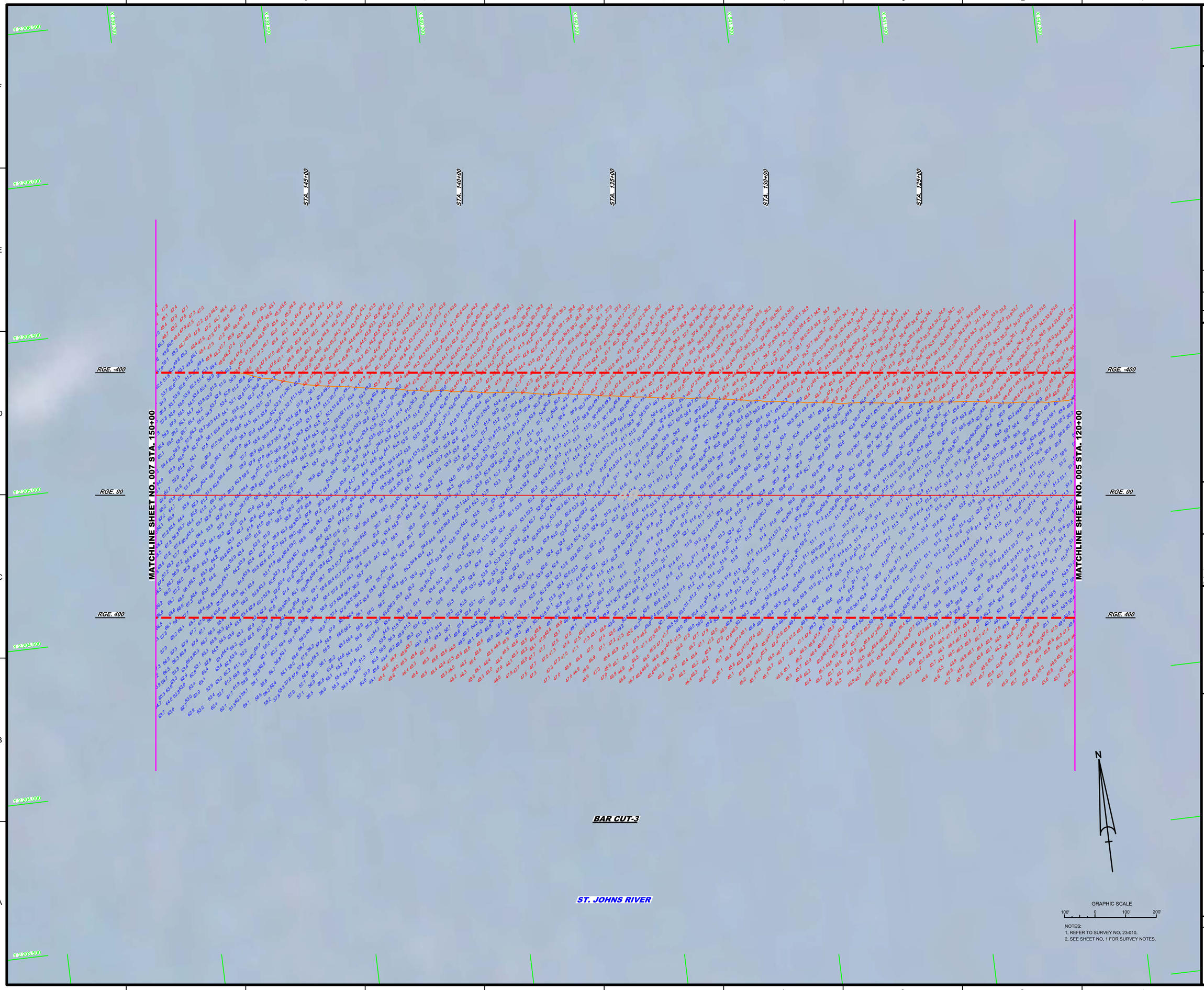
PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 35 OF 54



NOTES:
1. REFER TO SURVEY NO. 23-010.
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: NOV 2022

X:\XXXXXXXX-XXXXXXX.DGN
X:\XXXXXXXX-XXXXXXX.DGN
X:\XXXXXXXX-XXXXXXX.DGN
X:\XXXXXXXX-XXXXXXX.DGN
X:\XXXXXXXX-XXXXXXX.DGN
23-010-SOUNDINGS.DGN
23-010-SOUN_ALCUTS.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
23-010-C-BS-BRDR.DGN
Reference files:
23-010-VH006.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

1st QUARTER EXAM SURVEY FY23
30, 34, 38, 40, 47 & 49-FOOT PROJECT

STA. 120+00 THRU STA. 150+00 BAR CUT-3

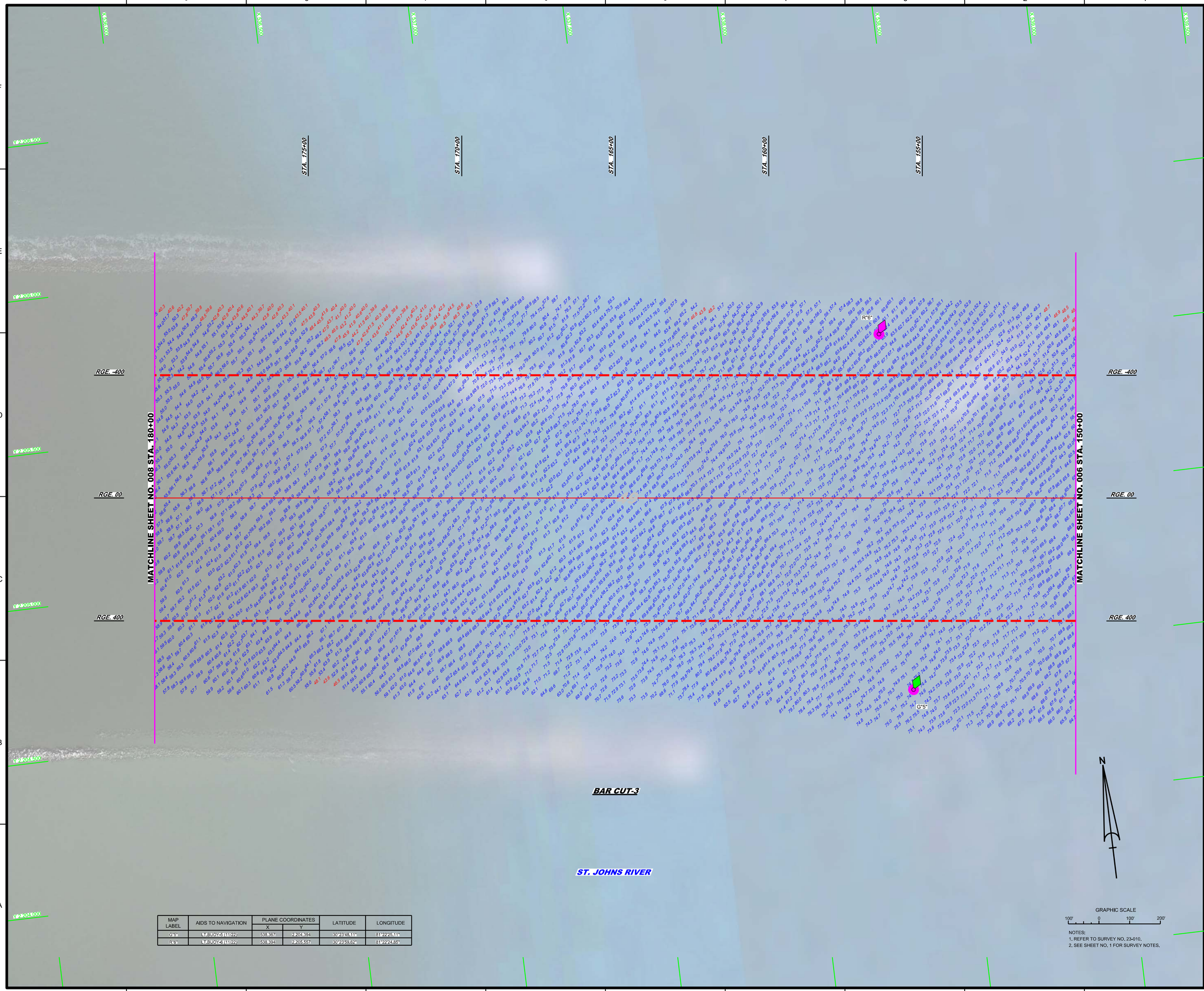
PLAN

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 (11/22)	538,367	2,204,394	30°23'48.11"	81°22'25.11"
R"6"	LT.BUOY-6 (11/22)	538,394	2,205,557	30°23'59.62"	81°22'24.85"

NOTES:
1. REFER TO SURVEY NO. 23-010.
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
Proj. No.
Date: NOV 2022

XXXXXXXXXX-XXXXXXXX.DGN
XXXXXXXXXX-XXXXXXXX.DGN
XXXXXXXXXX-XXXXXXXX.DGN
23-010-XX-SOUN_ALL CUTS.DGN
23-010-XX-SOUN_ALL CUTS.DGN
JAX HARBOR 47 EXTENSION-C-NGVICCF.DGN
23-010-XX-BR-BRDR.DGN
Reference files:
23-010-HR-007.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

1st QUARTER EXAM SURVEY FY23
30, 34, 38, 40, 47 & 49-FOOT PROJECT

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

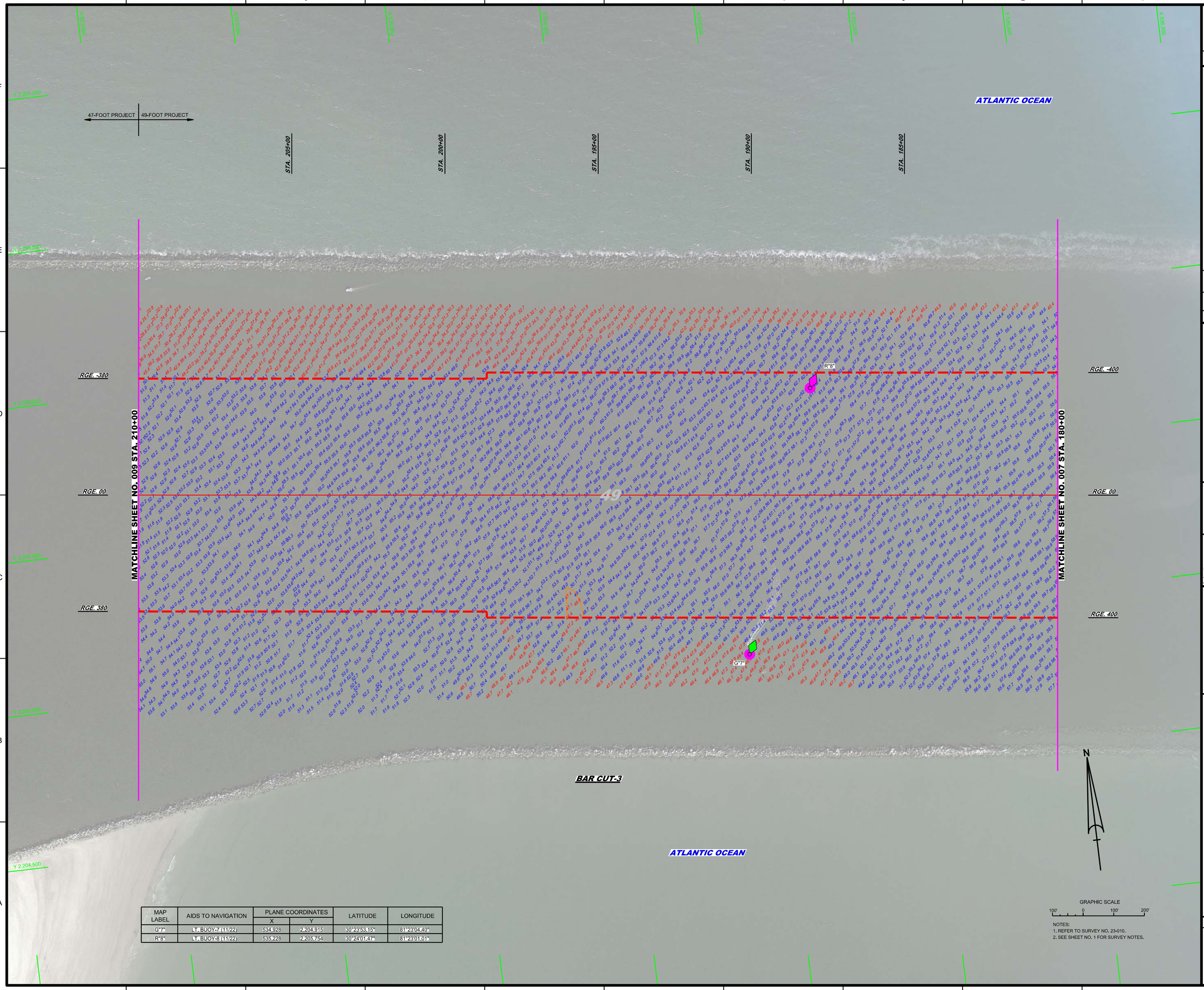
PLAN

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 (11/22)	534,928	2,204,915	30°23'53.15"	81°23'04.40"
R"8"	LT. BUOY-8 (11/22)	535,228	2,205,754	30°24'01.47"	81°23'01.01"

NOTES:
1. REFER TO SURVEY NO. 23-010.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

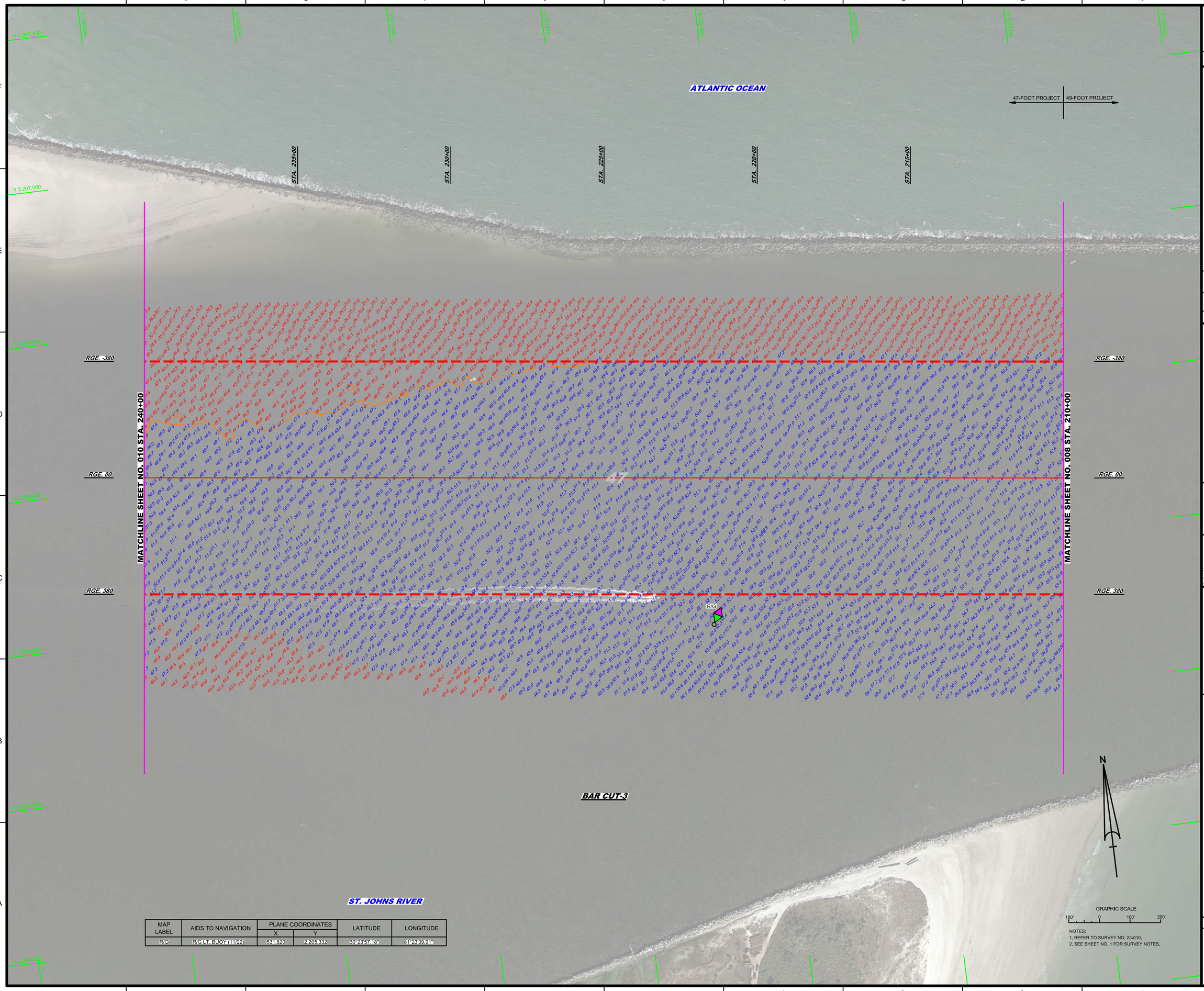
US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

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

Designed by: VIRM
DWN by: VIRM
Chkd by: CMR
Date: NOV 2022

XXXX



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R/G	R/G LT. BUOY (11/22)	531,820	2,205,332	30°23'57.18"	81°23'39.91"

NOTES:
1. REFER TO SURVEY NO. 23-010.
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 by: CMR
Rev. No.
Date: NOV 2022

XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
23-010-VC-CONT.DGN
23-010-VC-SOUND.DGN
23-010-VC-SOUN_ALCUTS.DGN
JAX HARBOR AT EXTENSION-CANGMCCF.DGN
23-010-C-BS-BKDR.DGN
Reference files:
23-010-VH-009.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

1st QUARTER EXAM SURVEY FY23
30, 34, 38, 40, 47 & 49-FOOT PROJECT

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

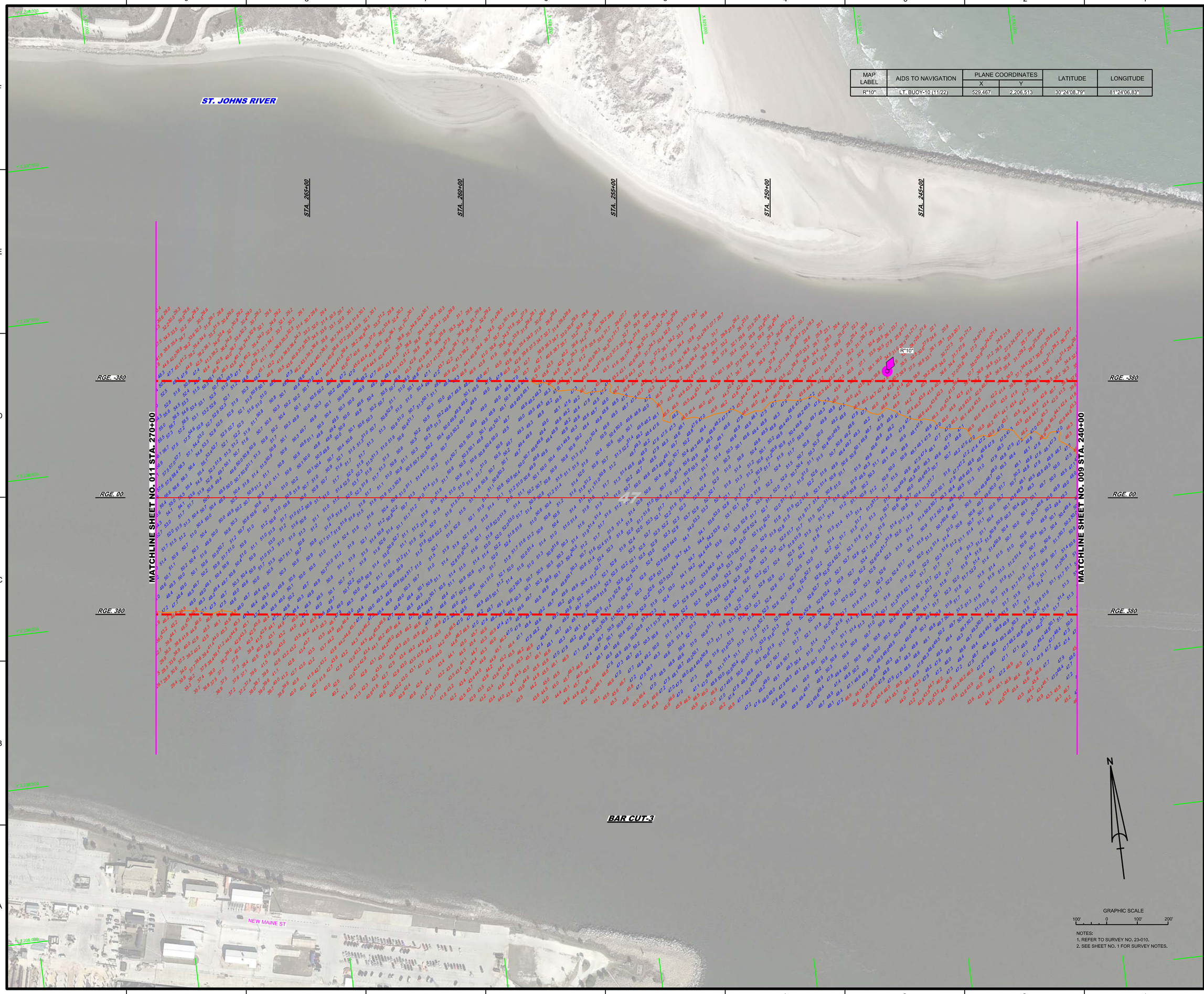
PLAN

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 (11/22)	529,467	2,206,513	30°24'08.79"	81°24'06.83"



NOTES:
1. REFER TO SURVEY NO. 23-010.
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

Designed by: VIRM
DWN by: VIRM
Ckd by: CMR
Rev. No.
Date: NOV 2022

XXXXXXXXXX-XXXXXX.DGN
XXXXXXXXXX-XXXXXX.DGN
23-010-VC-CONT.DGN
23-010-VC-SURF.DGN
23-010-VC-SOUN_ALL-CUTS.DGN
JAX HARBOR 47 EXTENSION-CANGMCCF.DGN
23-010-C-BS-BKDR.DGN
Reference files:
23-010-VH-010.DGN
File name:

JACKSONVILLE HARBOR, FLORIDA

1st QUARTER EXAM SURVEY FY23
30, 34, 38, 40, 47 & 49-FOOT PROJECT

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

PLAN

Scale: AS SHOWN

Drawing no.

10

SHEET 10 OF 57