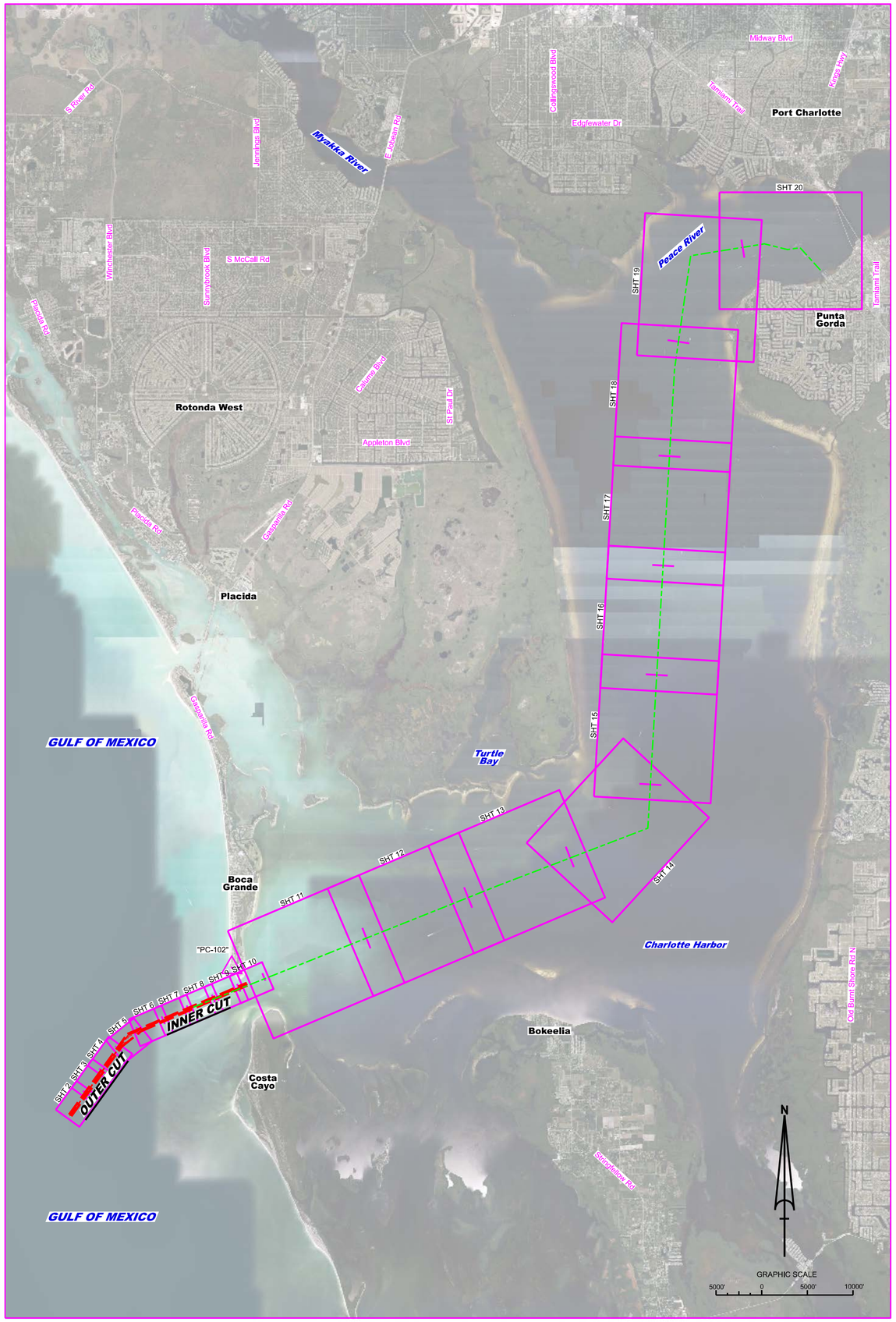

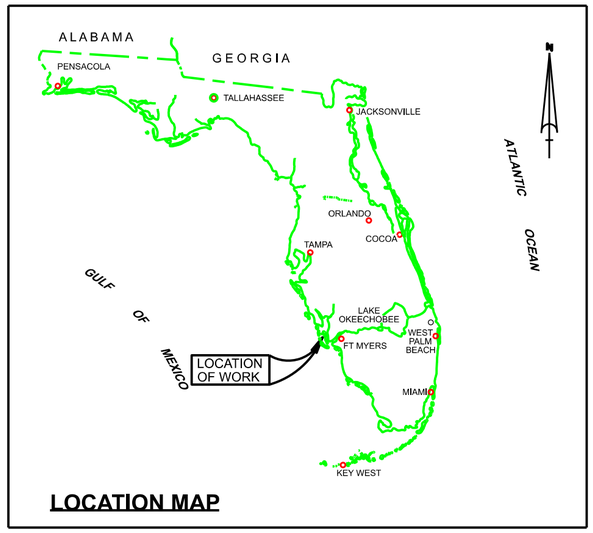

BOCA GRANDE PASS
LEE COUNTY, FLORIDA
PROJECT CONDITION SURVEY FY24
32-FOOT PROJECT

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

SURVEY NOTES

1. REFER TO SURVEY NO. 24-011.
2. SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
3. TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPACK KINEMATIC TIDE DATUM (KTD) MODEL. KTD FILE NAME IS: "SPC-FL-WEST-2010-12-07.KTD".
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 WEST ZONE OF FLORIDA AND REFERENCED TO THE CURRENT REALIZATION OF THE NORTH AMERICAN DATUM OF 1983 (NAD83), BASED ON THE NOAA NATIONAL SPATIAL REFERENCE SYSTEM (NSRS).
6. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
7. THIS SURVEY WAS PERFORMED USING THE FLORIDA PERMANENT REFERENCE NETWORK (VRS FOR REAL-TIME KINEMATIC (RTK) GPS POSITIONING).
8. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MLLW, TIDAL EPOCH 1983-2001, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). A MODIFIED VERSION OF NOAA'S VDATUM MODEL WAS USED TO CALIBRATE TO THE PUBLISHED MLLW HEIGHT OF THE BENCH MARK BELOW:

   NOAA TIDAL STATION 872 5577 E (PID: DL7346)
9. VERTICAL MEASUREMENTS WERE MADE USING AN ECHOTRAC E20 DUAL-FREQUENCY SINGLE-BEAM TRANSDUCER AND AN EDGETECH 6205 COMBINED MULTI-BEAM / SIDESCAN . ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	AREA
SB-48	09 FEB 2024	INNER AND OUTER CUTS

10. AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
11. 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.
12. 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.

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

Cad by: GMR
Digitized by: WRM
DWN by: WRM
Rev. No.
Dates: FEB 2024

24-011-VINDX2.DGN
C1ARLOTTE+HARBOR/C-SPMCCF.DGN
24-011-C-SBS-BRDR.DGN
Reference files:
24-011-VH-001.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA
PROJECT CONDITION SURVEY FY24
32-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1 / 10

SHEET 01 OF 20

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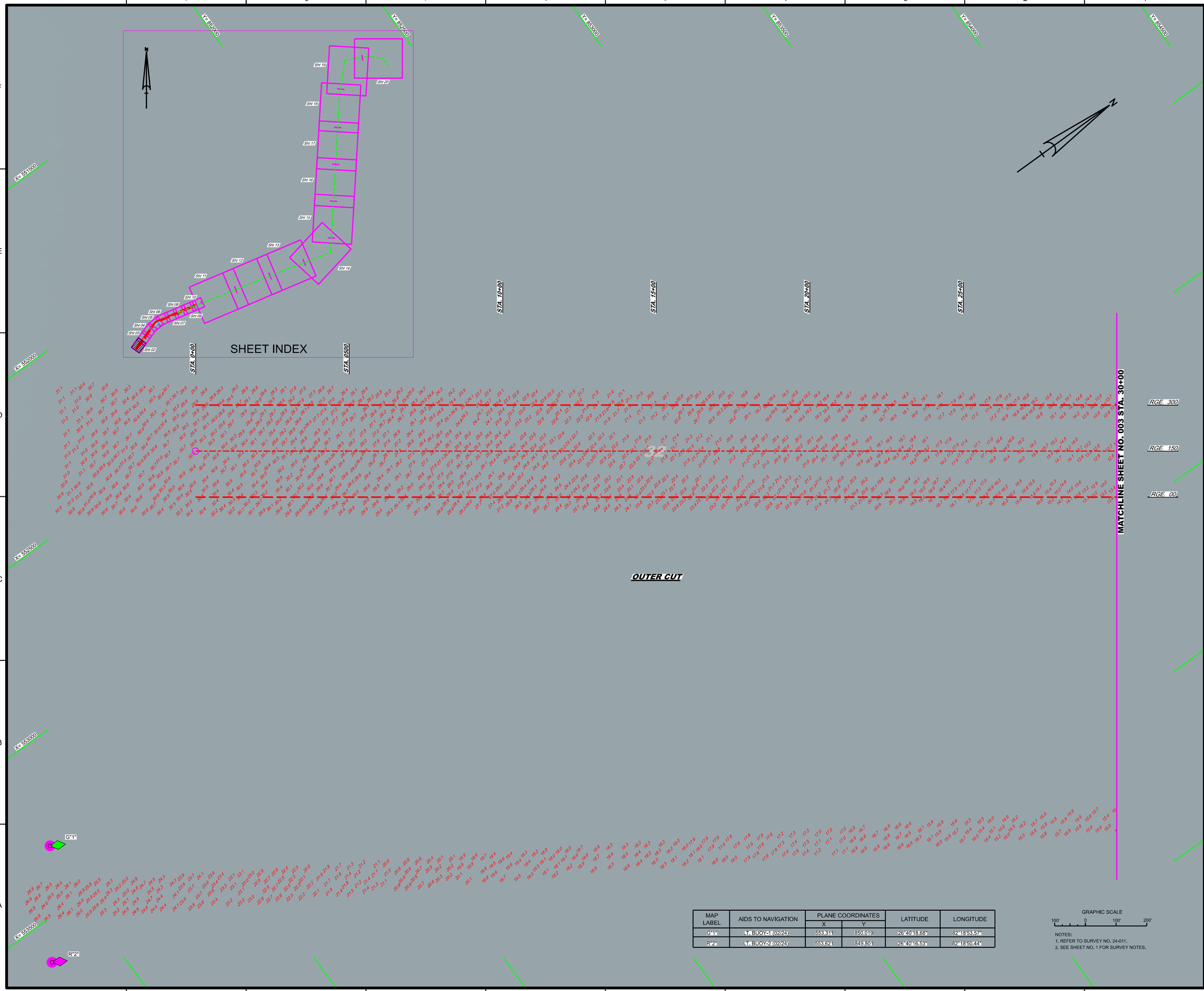

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"1"	LT. BUOY-1 (02/24)	553,311	850,019	26°40'18.68"	82°18'53.57"
R"2"	LT. BUOY-2 (02/24)	553,621	849,801	26°40'16.53"	82°18'50.44"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 24-011.
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

Checked by: GMR
Drafted by: WRM
DWN by: WRM
Rev. No.
Date: FEB 2024

XXXXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXXXX.DGN
24-011-VAERIAL_BRIGDGN
24-011-NAVAV.DGN
24-011-SOUTH_HARBOR-CL.DGN
24-011-VSOUN_ALLCUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
24-011-CBS-BRGR.DGN
Reference files:

24-011-VHx002.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY24
32-FOOT PROJECT

STA. 0+00 THRU STA. 30+00 OUTER CUT

PLAN

Scale: AS SHOWN

Drawing no.

2 / 10

SHEET 02 OF 20

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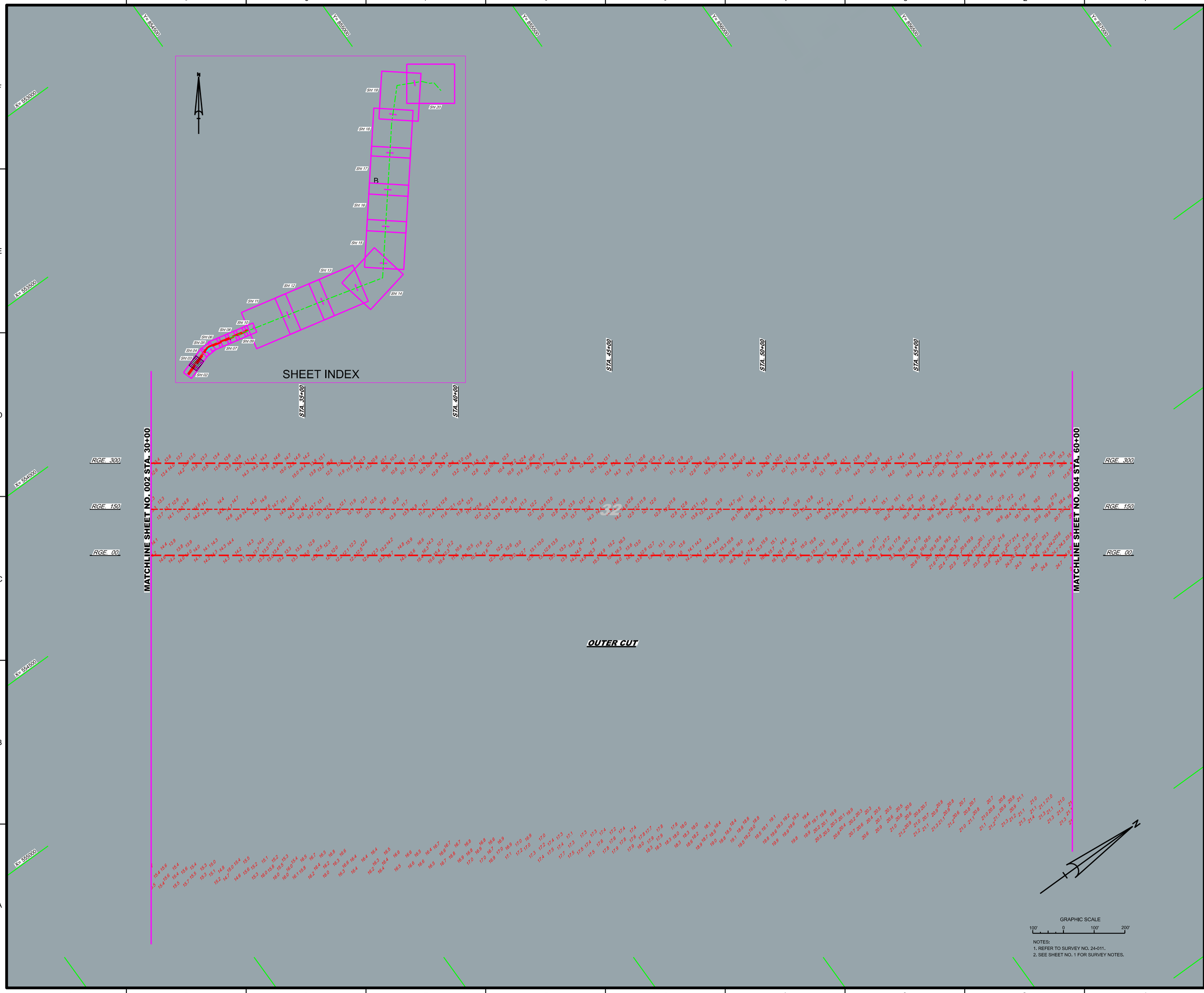

NOTES:
1. REFER TO SURVEY NO. 24-011.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Cad by: GR
Checked by: WRM
DWN by: WRM
Rev. No.
Dated: FEB 2024

Reference files:
X:\XXXXXXXX-X-XXXXXXX.DGN
XXXXXXXX-X-XXXXXXX.DGN
XXXXXXXX-X-XXXXXXX.DGN
24-011-X-AERIAL_BING.DGN
24-011-X-SDSN_BATHO-CD.DGN
24-011-X-SOUN_ALLCUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
24-011-C-ES-SHOR.DGN
File name: 24-011-VH-003.DGN

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY24
32-FOOT PROJECT
STA. 30+00 THRU STA. 60+00 OUTER CUT
PLAN

Scale: AS SHOWN

Drawing no.
3 / 10

SHEET 03 OF 20

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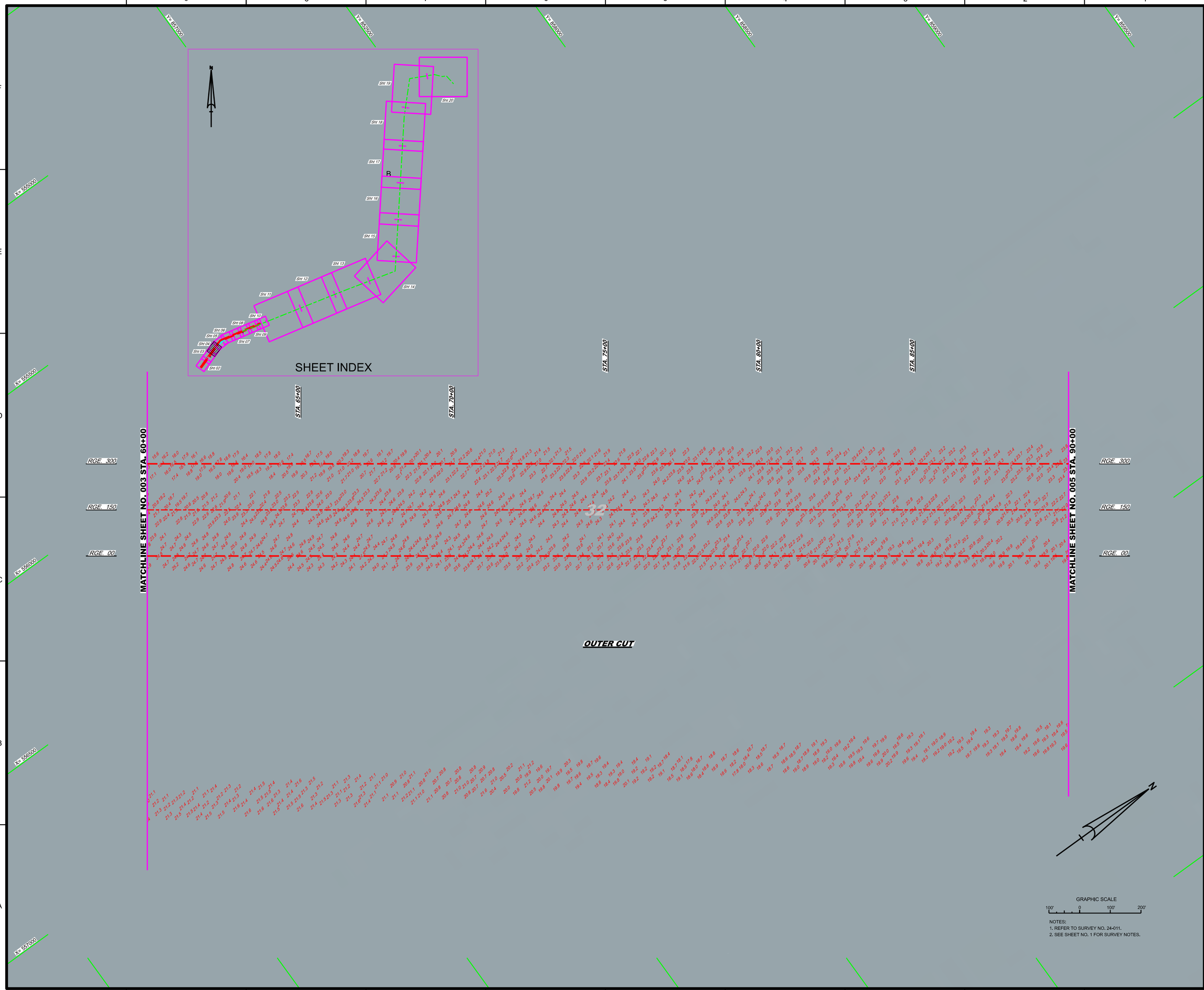

NOTES:
1. REFER TO SURVEY NO. 24-011.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Chkd by: GMR
Dwn by: WRM
Engrd by: WRM
Rev. No.
Date: FEB 2024

XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
XXXXXXXX-XXXXXX.DGN
24-011-A-AERIAL_BRN.DGN
24-011-A-SOUTH_HARBOR.DGN
24-011-A-SOUTH_ALLOUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
24-011-C-BR-BRGR.DGN
Reference files:
24-011-VHx004.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY24
32-FOOT PROJECT
STA. 60+00 THRU STA. 90+00 OUTER CUT
PLAN

Scale: AS SHOWN

Drawing no.
4 / 10

SHEET 04 OF 20

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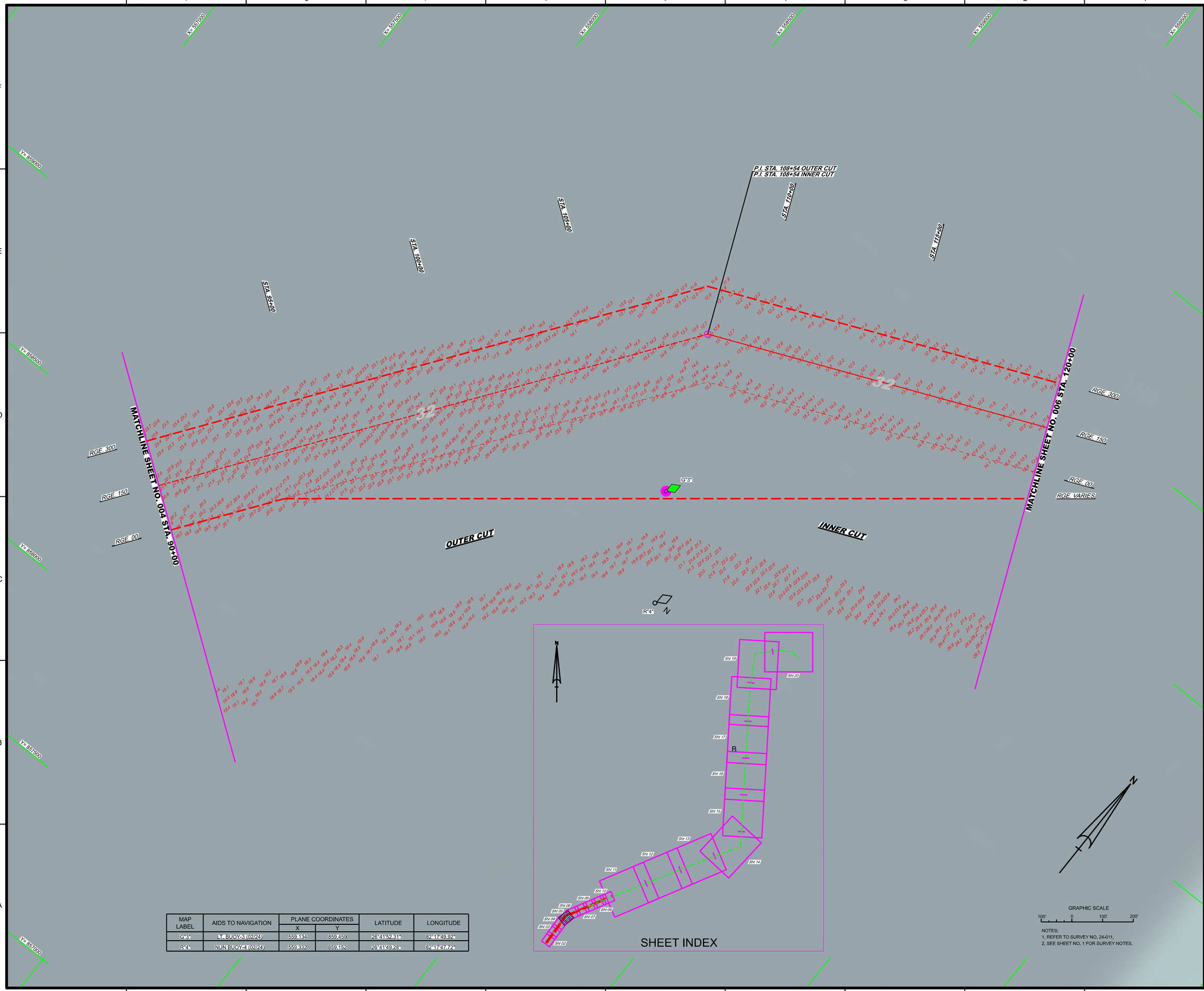

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT. BUOY-3 (02/24)	559,134	859,459	26°41'52.31"	82°17'49.92"
R"4"	NUN BUOY-4 (02/24)	559,332	859,152	26°41'49.28"	82°17'47.72"

NOTES:
1. REFER TO SURVEY NO. 24-011.
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

Cad by: CMR
Checked by: VIRM
DWN by: VIRM
Rev. No.
Date: FEB 2024

X:\XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
24-011-C-AERIAL_BING.DGN
24-011-V-ADN.DGN
24-011-V-SOUTH_MARKER-CL.DGN
24-011-V-SOUN_ALLCUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
24-011-C-SS-BNDR.DGN
Reference files:
24-011-VH-005.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY24
32-FOOT PROJECT
STA. 90+00 OUTER CUT THRU STA. 120+00 INNER CUT

PLAN

Scale: AS SHOWN

Drawing no.
5 / 10

SHEET 05 OF 20

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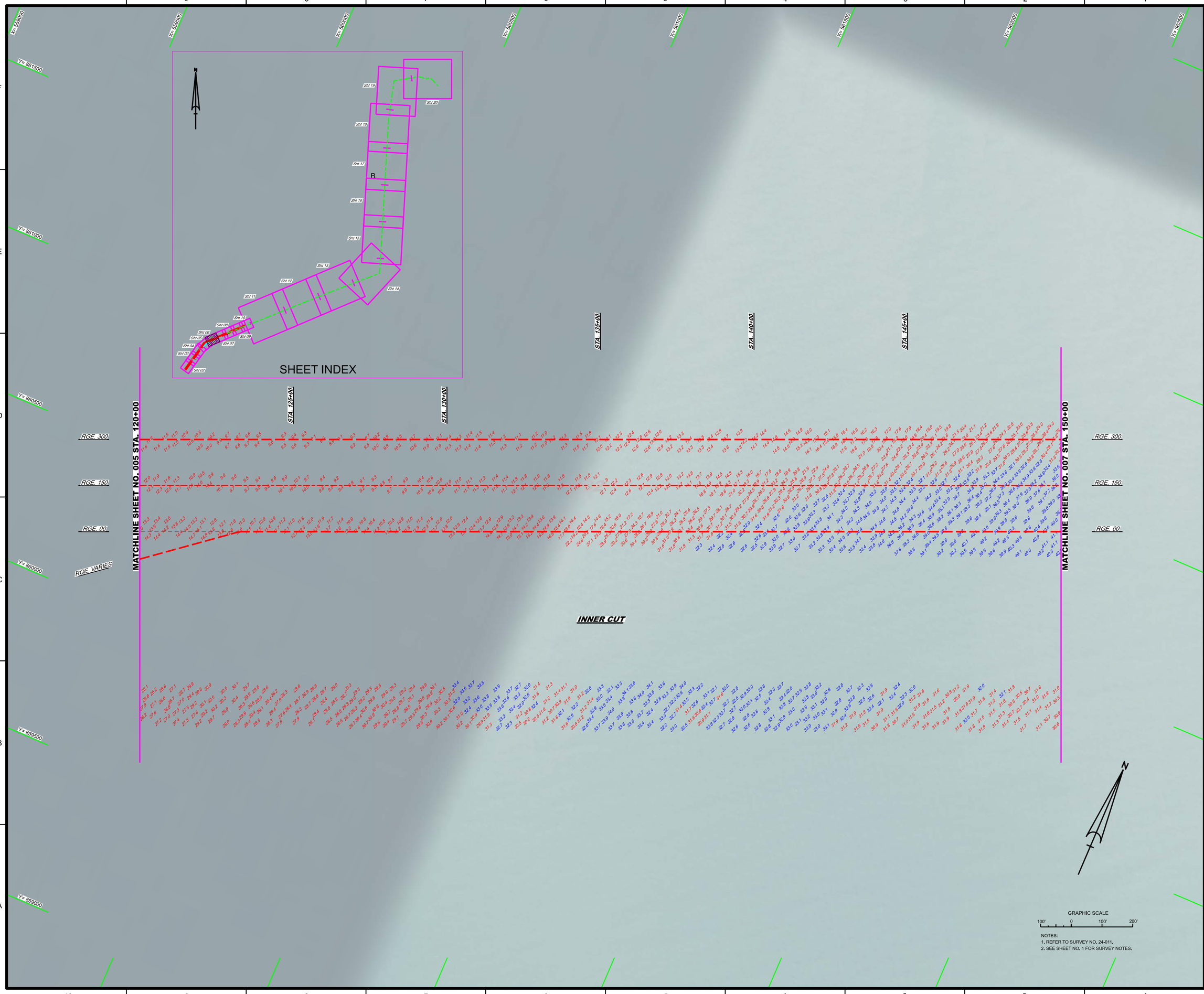

NOTES:
1. REFER TO SURVEY NO. 24-011.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Cad by: GAB
Designed by: WRM
DWN by: WRM
Rev. No.
Date: FEB 2024

XXXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
24-011-V-AERIAL_BING.DGN
24-011-V-SCAN_MAPPING.DGN
24-011-V-SCAN_ALLCUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
24-011-D-BS-BRDR.DGN
Reference files:
24-011-VH-005.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY24
32-FOOT PROJECT

STA. 120+00 THRU STA. 150+00 INNER CUT

PLAN

Scale: AS SHOWN

Drawing no.

6 / 10

SHEET 06 OF 20

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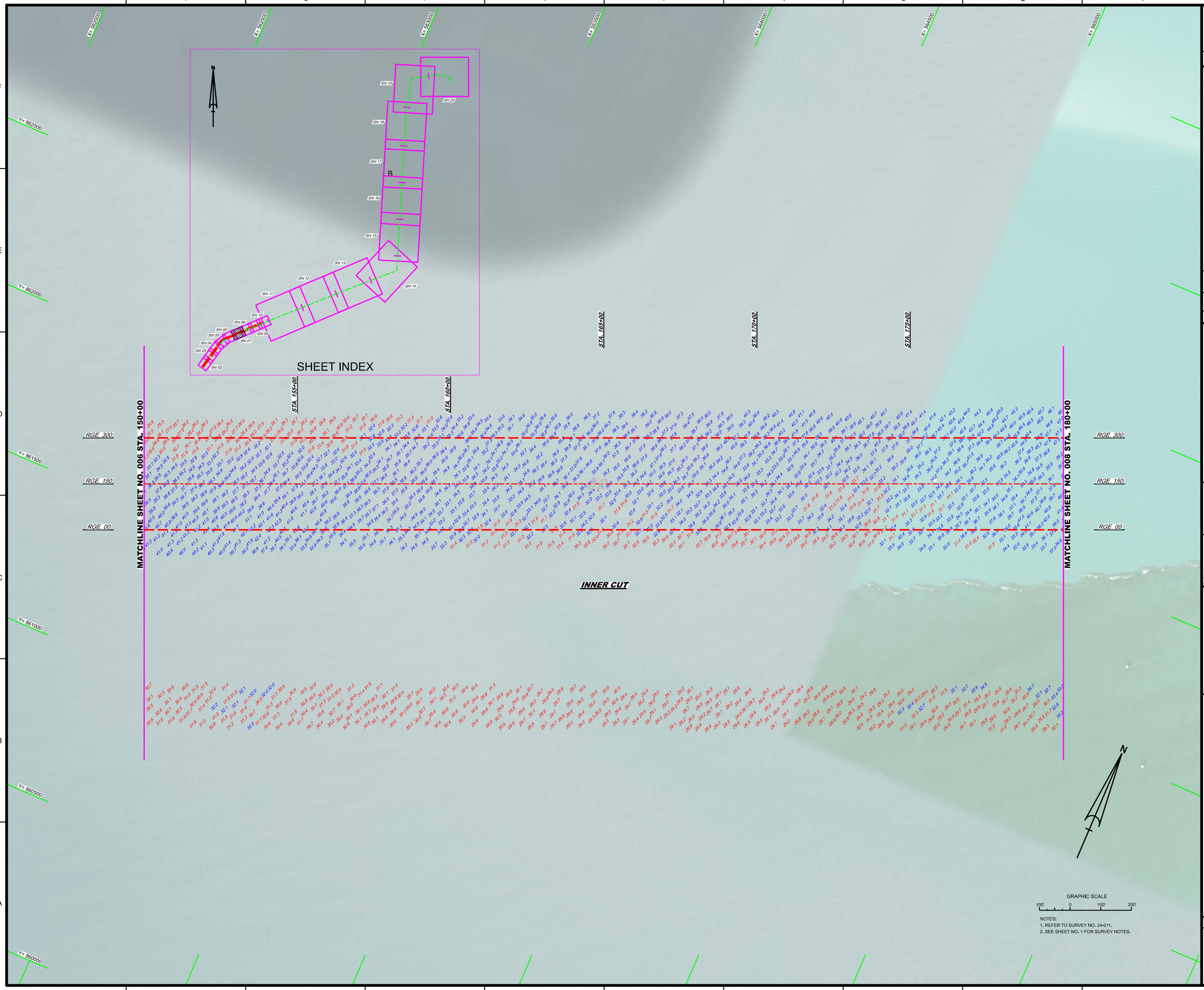

NOTES:
1. REFER TO SURVEY NO. 24-011.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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
Inv. No.:
Dates: FEB 2024

XXXXXXXXXX-XXXXXXX.DGN
XXXXXXXX-XX-XXXXXX.DGN
24-011-HAERIAL_BRKG.DGN
24-011-HSURVEY_MASTER.DGN
24-011-HSOUND_ALLCUTS.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
Reference files:
24-011-GBS-BROR.DGN
24-011-VH-007.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY24
32-FOOT PROJECT

STA. 150+00 THRU STA. 180+00 INNER CUT

PLAN

Scale: AS SHOWN

Drawing no.

7 / 10

SHEET 07 OF 20

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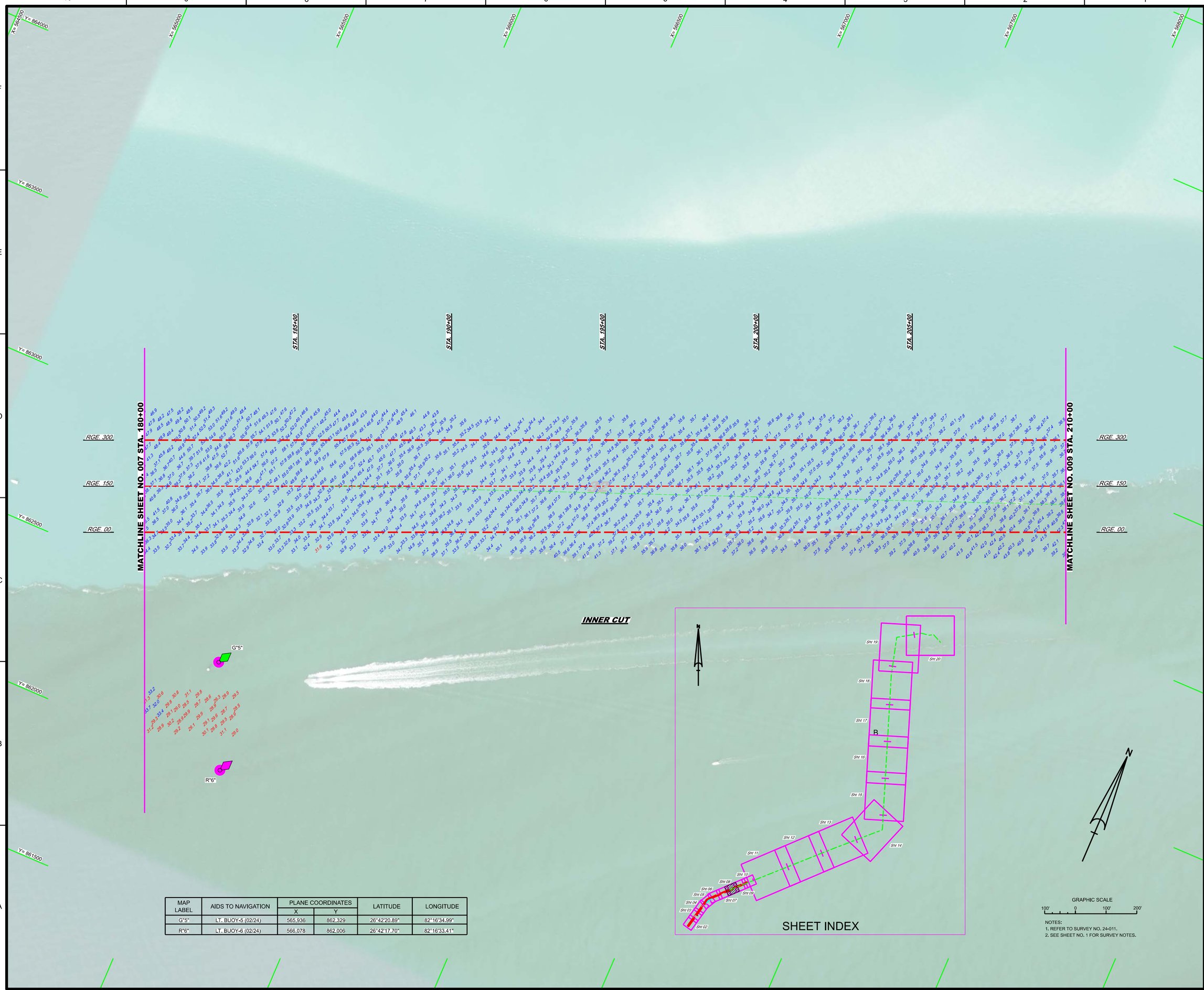

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"5"	LT. BUOY-5 (02/24)	565,936	862,329	26°42'20.89"	82°16'34.99"
R"6"	LT. BUOY-6 (02/24)	566,078	862,006	26°42'17.70"	82°16'33.41"

NOTES:
1. REFER TO SURVEY NO. 24-011.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

Rev.	Symbol	Zone

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

Designed by: VRTM
DWN by: VRTM
CHK by: GMR
Rev. No.
Dates: FEB 2024

XXXXXXXXXXXXXXXXXX.DGN
24-011-VA-AERIAL_BRKG.DGN
24-011-VA-NAV.DGN
24-011-VA-SOUNDING_MKCR-CL.DGN
24-011-VA-SOUN_ALLCUTS.DGN
CHARLOTTE HARBOR-C_SPMCCF.DGN
24-011-GBS-GRIDPLOG.DGN
Reference files:

24-011-VHA08.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY24
32-FOOT PROJECT

STA. 180+00 THRU STA. 210+00 INNER CUT

PLAN

Scale: AS SHOWN

Drawing no.

8 / 10

SHEET 08 OF 20

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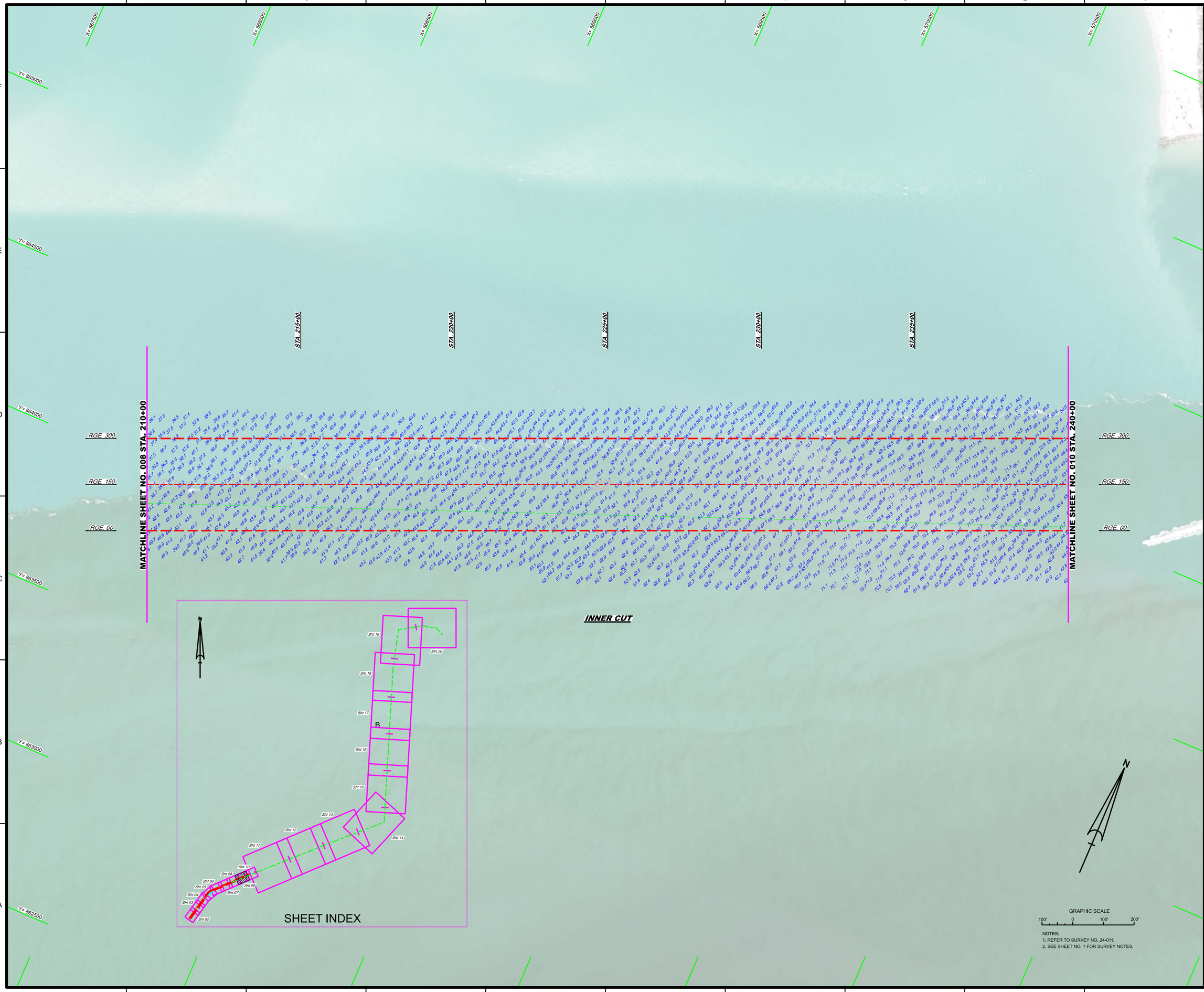

NOTES:
1. REFER TO SURVEY NO. 24-011.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Checked by: GMR
Designed by: WRM
DWN by: WRM
Rev. No.
Dates: FEB 2024

XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
24-011-H-AERIAL_BING.DGN
24-011-H-SOUNDINGS_FILE.DGN
24-011-H-SOUN_FILE_CUTS.DGN
CHARLOTTE HARBOR-C-SPM/CCF.DGN
24-011-C-BS-BRGR.DGN
Reference files:

24-011-H-010.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY FY24
32-FOOT PROJECT

STA. 210+00 THRU STA. 240+00 INNER CUT

PLAN

Scale: AS SHOWN

Drawing no.

9 / 10

SHEET 09 OF 20

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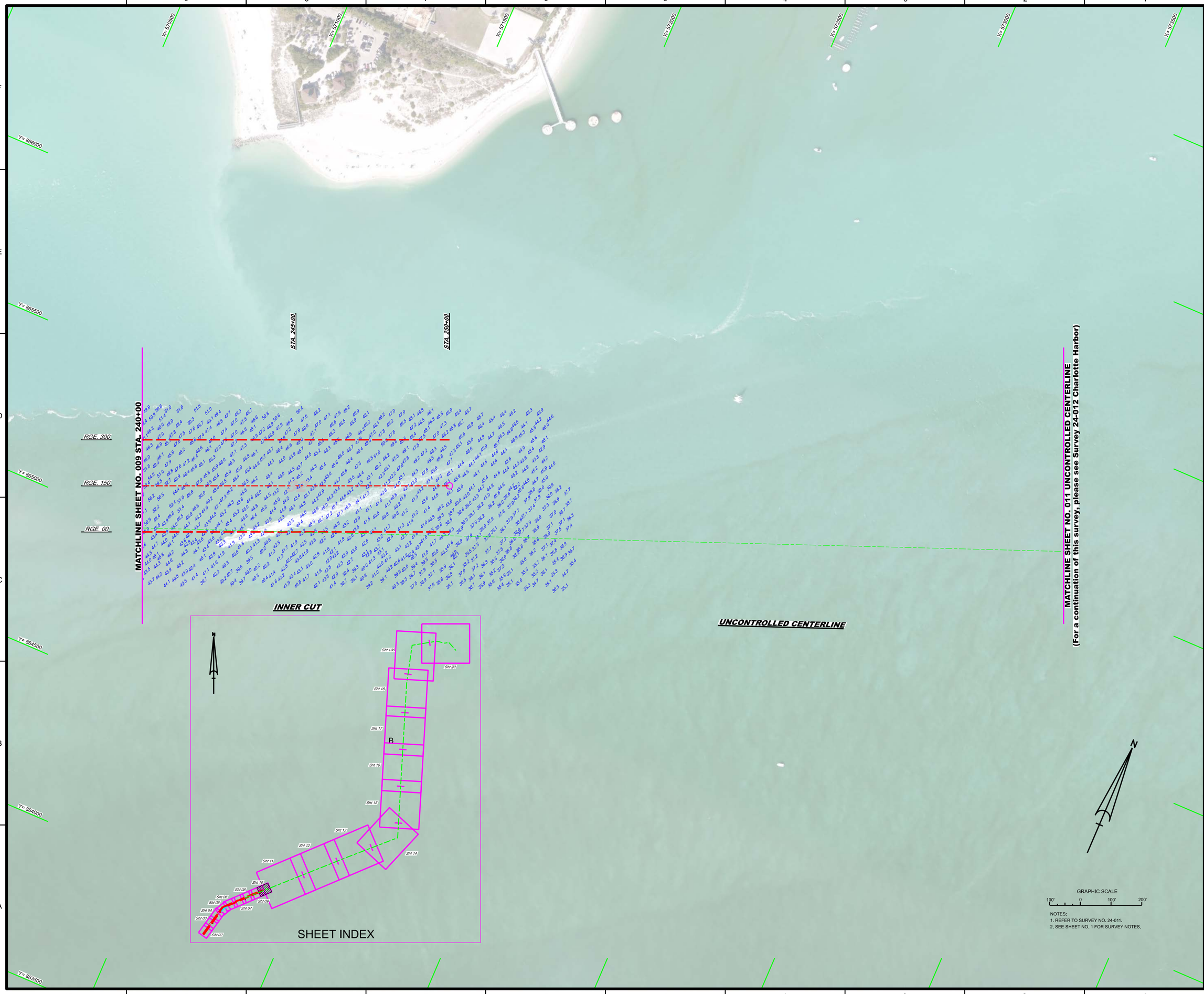

NOTES:
1. REFER TO SURVEY NO. 24-011.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

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

Chk'dby: GMR
Drafted by: VRM
DWN by: VRM
Rev. No.
Dates: FEB 2024

XXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXX.DGN
24-011-A-AERIAL_LBRG.DGN
24-011-A-GRID_ALL_FEET.DGN
24-011-A-SOUND_ALL_FEET.S.DGN
CHARLOTTE HARBOR-C-SPMCCF.DGN
24-011-C-BR-SPRDR.DGN
Reference files:
24-011-VHD10.DGN
File name:

BOCA GRANDE PASS
LEE COUNTY, FLORIDA

PROJECT CONDITION SURVEY SURVEY FY24
32-FOOT PROJECT

STA. 240+00 THRU STA. 250+00 INNER CUT

PLAN

Scale: AS SHOWN

Drawing no.

10 / 10

SHEET 10 OF 20

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