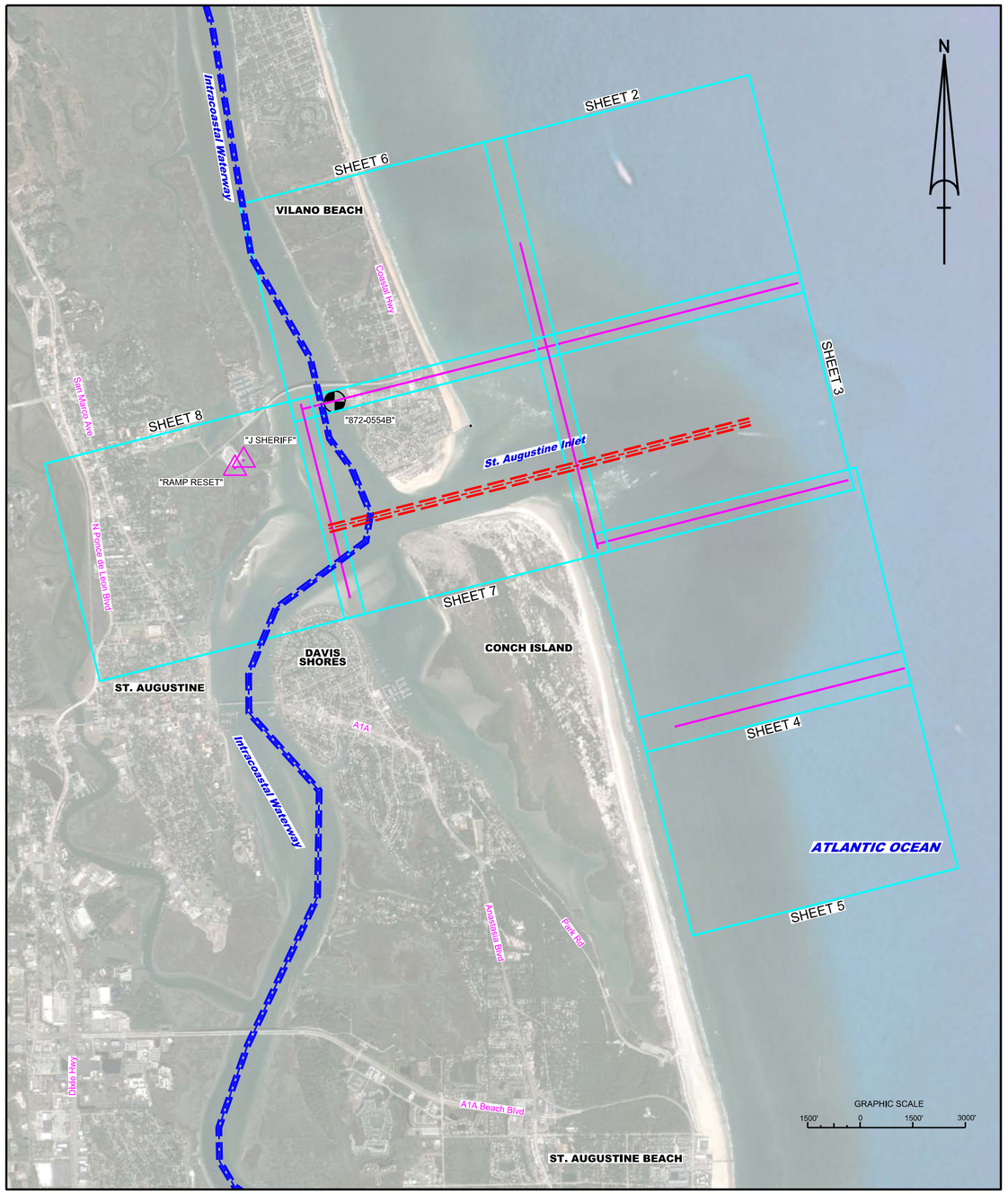
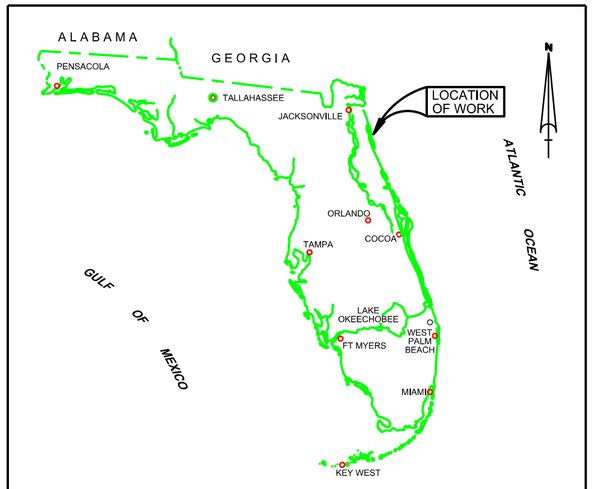
ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA
EBB AND FLOOD SHOALS
EXAMINATION SURVEY FY19
16-FOOT PROJECT





LOCATION MAP

SURVEY NOTES

1. REFER TO SURVEY NO. 19-209.
2. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
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. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATIONS:

   REFERENCE BASE LOCATED AT "J. SHERIFF" (PID: BBCJ50)

   REFERENCE BASE LOCATED AT "RAMP RESET" (PID: BBCB11)

   TIDE STAFF LOCATED AT "872 0554B TIDAL" (PID: DL5712)
7. VERTICAL MEASUREMENTS WERE MADE USING A ROSS MODEL 835 SMART SOUNDER WITH A DUAL-FREQUENCY 28/200 KHZ SINGLE-BEAM TRANSDUCER. ALL DEPTHS SHOWN ARE IN HIGH FREQUENCY.

VESSEL	DATE OF SURVEY	CUT
SB-44	04-05 JUN 2019	FLOOD SHOALS
SB-44	21-22 AUG 2019	EBB SHOALS
SB-44	18 OCT 2019	EBB SHOALS

8. AIDS TO NAVIGATION WERE COLLECTED DURING THIS SURVEY.
9. 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.
10. 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 13.

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
DWN by: WRM
Ckd by: GB
Trv. No. W912EP-XX-X-XXXX
Date: OCT 2019

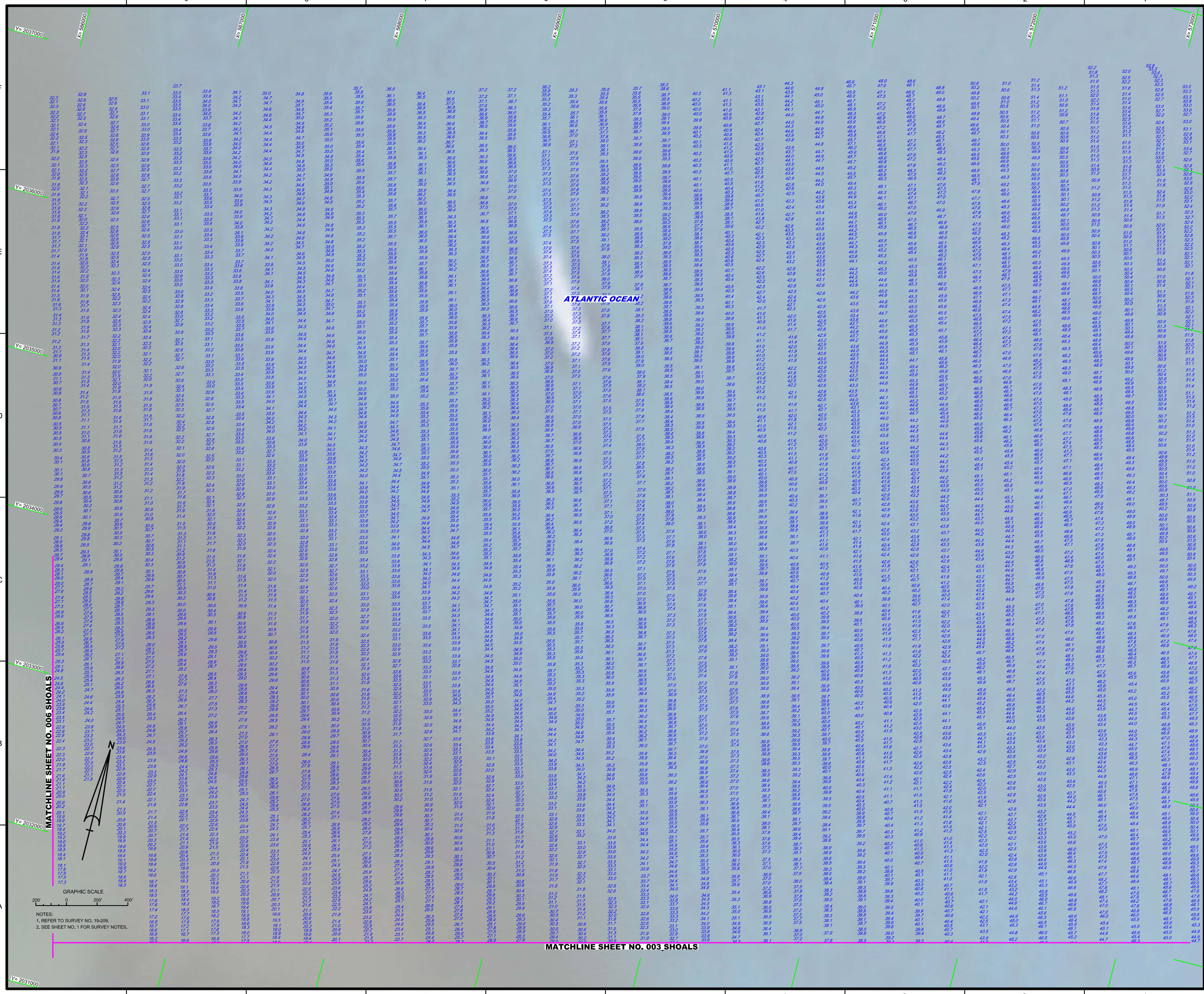
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
USACE ABBR-XXXX-XX-XX-XX.DGN
MW MCCF 83 HARN.DGN
ST AUG CHANNEL-C-NGMCCF.DGN
19-209-C-ABS-BRDR.DGN
Reference files
19-209-V-001_SHOALS.DGN
File name:

ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA
ST JOHNS COUNTY EBB AND FLOOD SHOALS SURVEY FY19
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN

Drawing no.
1

SHEET 01 OF 08



NOTES:
1. REFER TO SURVEY NO. 19-209.
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

ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA

ST JOHNS COUNTY EBB AND FLOOD SHOALS SURVEY FY19

EBB SHOALS

PLAN

Scale: AS SHOWN

Drawing no.

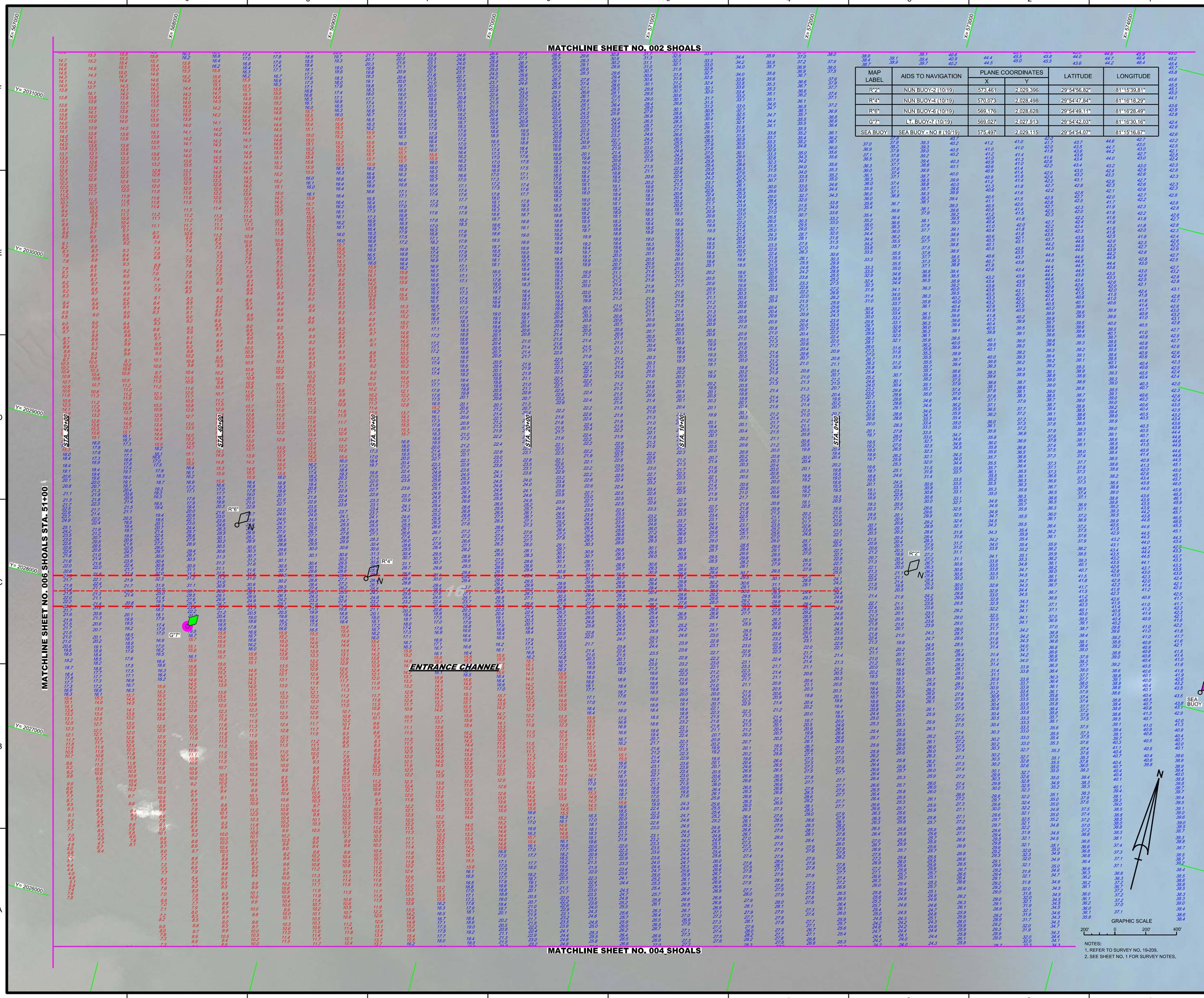
2

SHEET 02 OF 08

Designed by: WRM
Drawn by: WRM
Checked by: GMR
Proj. No. V6912EP-XXXX-XXXX
Date: OCT 2019

References Files
19-209-HR02_SHOALS.DGN
File name:

XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
XXXXXXXX-XXXXXXXX.DGN
19-209-A-SOUN_EBB_200.DGN
19-209-A-SOUN_EBB_2_200.DGN
19-209-A-SB-BRDR.DGN
Attachments



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
R"2"	NUN BUOY-2 (10/19)	573,461	2,029,396	29°54'56.82"	81°15'39.81"
R"4"	NUN BUOY-4 (10/19)	570,073	2,028,498	29°54'47.84"	81°16'18.29"
R"6"	NUN BUOY-6 (10/19)	569,176	2,028,628	29°54'49.11"	81°16'28.49"
G"7"	LT. BUOY-7 (10/19)	569,027	2,027,913	29°54'42.03"	81°16'30.16"
SEA BUOY	SEA BUOY - NO # (10/19)	575,497	2,029,115	29°54'54.07"	81°15'16.67"

GRAPHIC SCALE

200' 0 200' 400'

NOTES:
1. REFER TO SURVEY NO. 19-209.
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
Drawn by: WRM
Checked by: CMR
Rev. No. V9123EP-XX-X-XXXX
Date: OCT 2019

XXXXXXXX-X-XXXXXXXX.DGN
XXXXXXXX-X-XXXXXXXX.DGN
XXXXXXXX-X-XXXXXXXX.DGN
19-209-V-MAN.DGN
19-209-V-SOUL_EBB_2_2000.DGN
19-209-V-SOUL_EBB_2_2020.DGN
ST AUG CHANNEL-C-NGMCCF.DGN
19-209-C-PS-BNDR.DGN
19-209-VHD03_SHOALS.DGN
File name:
Reference files:

ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA

ST JOHNS COUNTY EBB AND FLOOD SHOALS SURVEY FY19

ENTRANCE CHANNEL STA. 51+00 THRU STA. 51+00 AND EBB SHOALS AREA

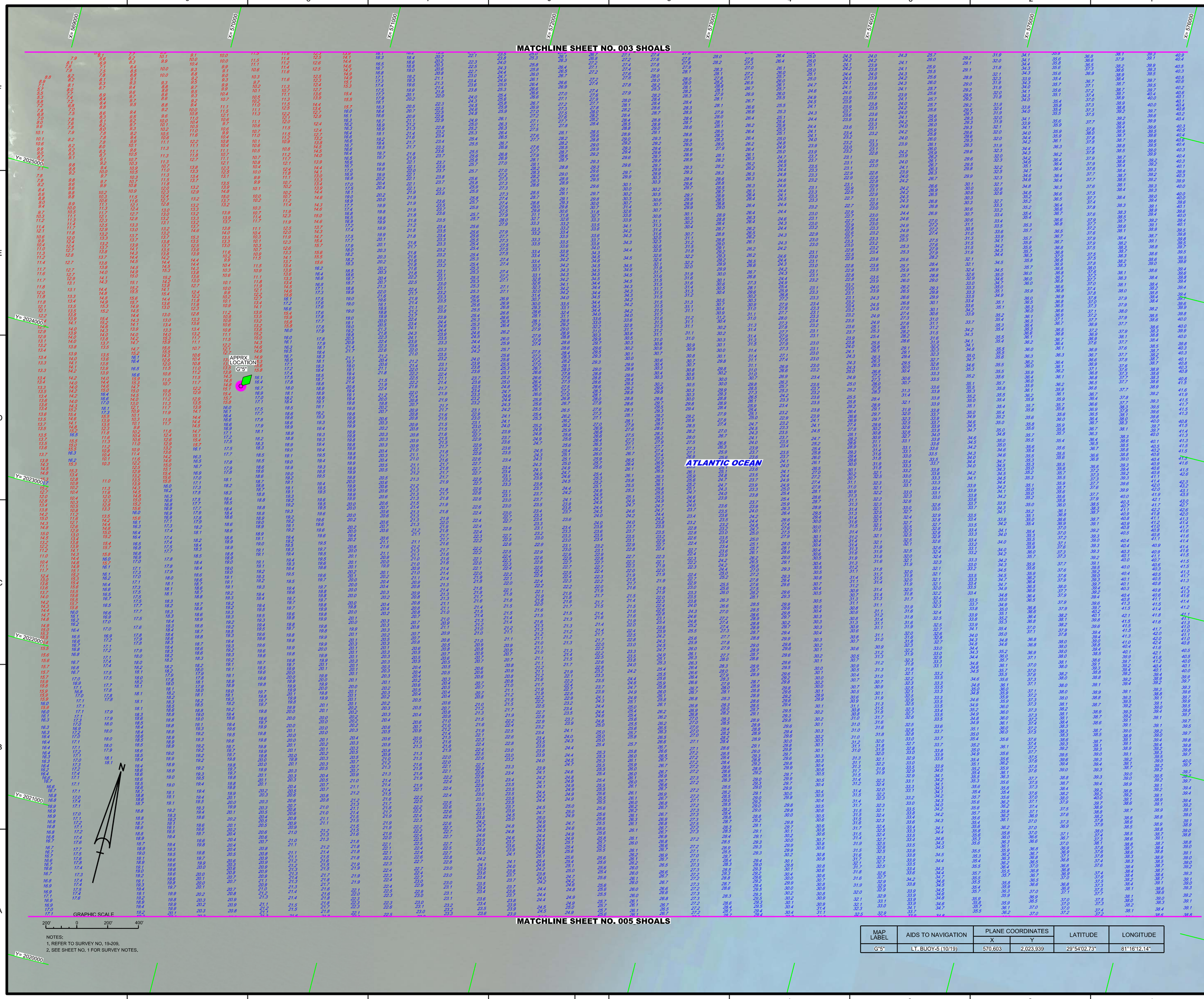
PLAN

Scale: AS SHOWN

Drawing no.

3

SHEET 03 OF 08



NOTES:
1. REFER TO SURVEY NO. 19-209.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"5"	LT. BUOY-5 (10/19)	570,603	2,023,939	29°54'02.73"	81°16'12.14"

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. V9129EP-XX-X-XXXX
Date: OCT 2019

19-209-V-H004_SHOALS.DGN
Reference files:
19-209-V-SOUL_EBB_200.DGN
19-209-V-SOUL_EBB-2_200.DGN
19-209-V-C5-SHELL-RIDR.DGN
File name:

ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA

ST JOHNS COUNTY EBB AND FLOOD SHOALS SURVEY FY19

EBB SHOALS

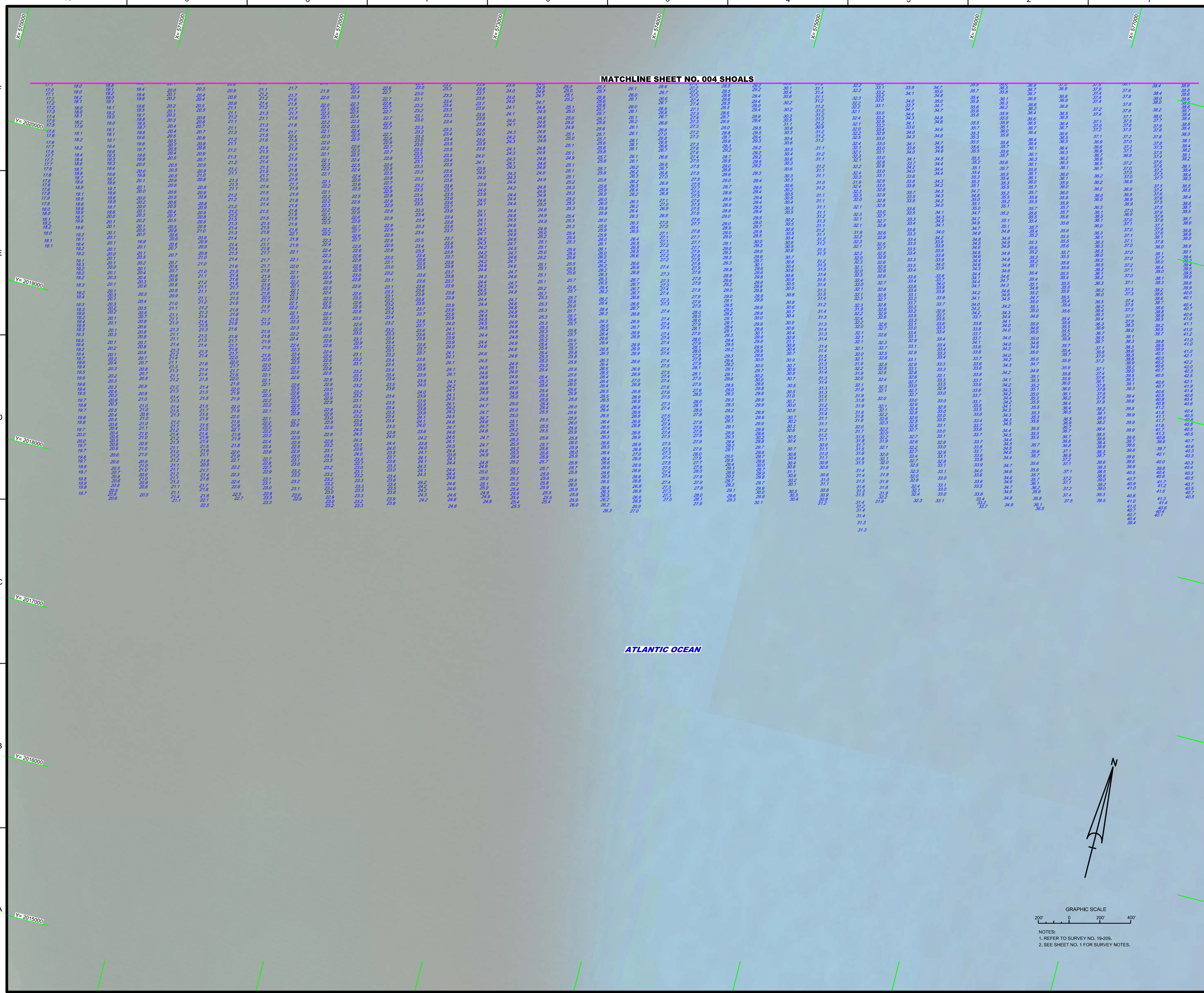
PLAN

Scale: AS SHOWN

Drawing no.

4

SHEET 04 OF 08



NOTES:
1. REFER TO SURVEY NO. 19-209.
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: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. W912EP-XX-X-XXXX
Date: OCT 2019

Reference files:
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
XXXXXXXXXXXXXXXXXX.DGN
19-209A-XS-SOUN_EBB_200.DGN
19-209A-XS-SOUN_EBB-2_200.DGN
19-209A-CABS-BRDR.DGN
19-209-VH-005_SHOALS.DGN
File name:

ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA

ST JOHNS COUNTY EBB AND FLOOD SHOALS SURVEY FY19

EBB SHOALS

PLAN

Scale: AS SHOWN

Drawing no.

5

SHEET 05 OF 08

NOTES:
1. REFER TO SURVEY NO. 19-209.
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
Rev. No. V9123EF-XX-X-XXXX
Date: OCT 2019

XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
XXXXXXXX-X-XXXXXX.DGN
19-209-X-SOUN_EBB-2_200.DGN
19-209-X-SEB-GRID.DGN
Reference files:
19-209-VHORI_SHOALS.DGN
File name:

ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA

ST JOHNS COUNTY EBB AND FLOOD SHOALS SURVEY FY19

EBB SHOALS

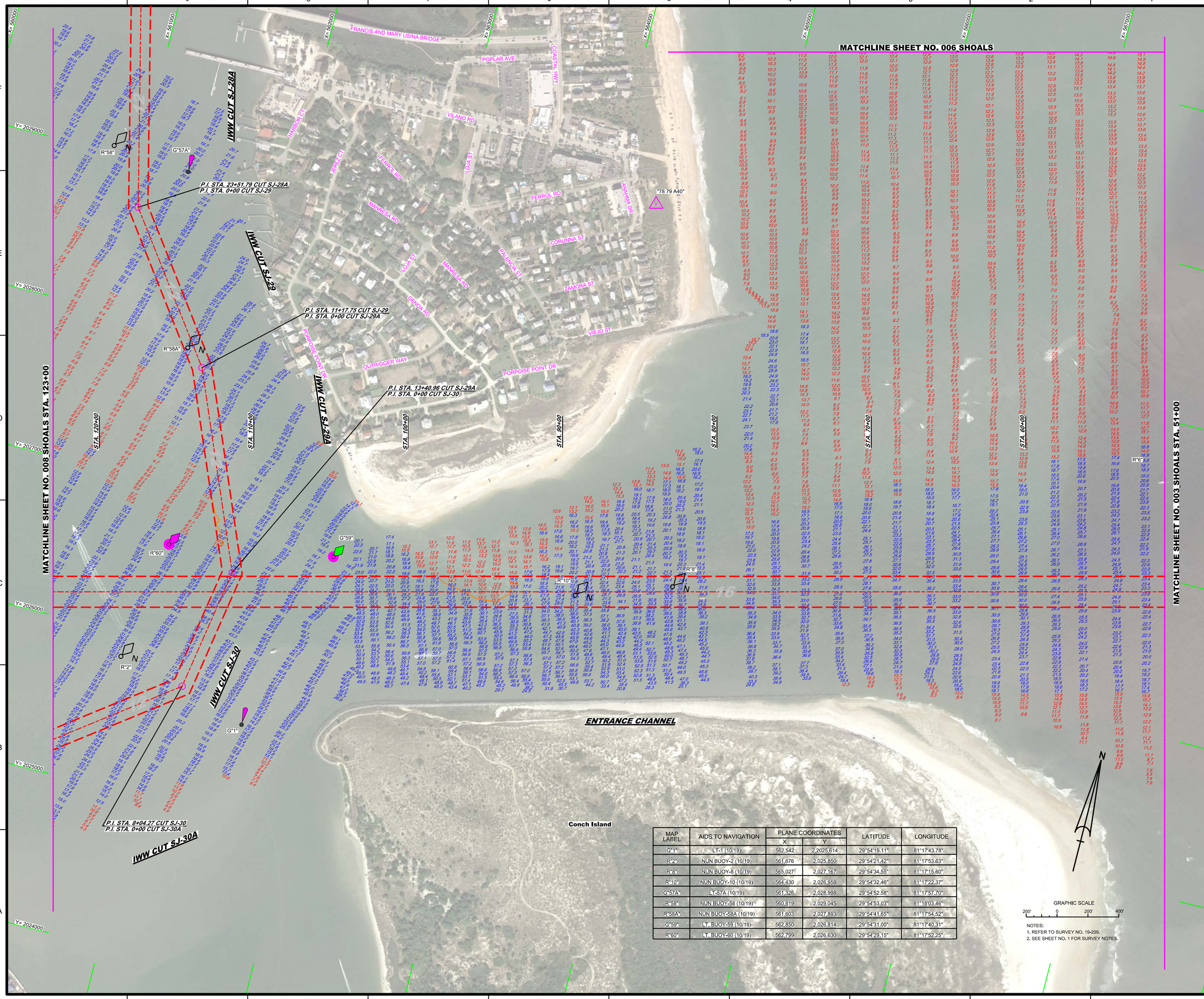
PLAN

Scale: AS SHOWN

Drawing no.

6

SHEET 06 OF 08



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"1"	LT-1 (10/19)	562,542	2,025,614	29°54'19.11"	81°17'43.78"
R"2"	NUN BUOY-2 (10/19)	561,676	2,025,850	29°54'21.42"	81°17'53.63"
R"8"	NUN BUOY-8 (10/19)	565,027	2,027,167	29°54'34.55"	81°17'15.60"
R"10"	NUN BUOY-10 (10/19)	564,430	2,026,958	29°54'32.46"	81°17'22.37"
G"57A"	LT-57A (10/19)	561,326	2,028,998	29°54'52.58"	81°17'57.70"
R"58"	NUN BUOY-58 (10/19)	560,819	2,029,045	29°54'53.03"	81°18'03.46"
R"58A"	NUN BUOY-58A (10/19)	561,603	2,027,893	29°54'41.65"	81°17'54.52"
G"59"	LT. BUOY-59 (10/19)	562,850	2,026,814	29°54'31.00"	81°17'40.31"
R"60"	LT. BUOY-60 (10/19)	562,799	2,026,630	29°54'29.15"	81°17'52.25"

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
Checked by: GMR
Inv. No.: W912EF-XX-X-XXXX
Dated: OCT 2019

15-209A-CONTS.DGN
15-209A-CONTE.DGN
15-209A-NAV.DGN
15-209A-SOUN_EBB-2_200.DGN
15-209A-SOUN_FLOOD-2_200.DGN
IWW-CASGMCF.DGN
ST AUG CHANNEL-CASGMCF.DGN
15-209A-CASGRDR.DGN
Reference files:
15-209A-HH-007_SHOALS.DGN
File name:

ST JOHNS COUNTY EBB AND FLOOD SHOALS SURVEY FY19

ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA

ENTRANCE CHANNEL STA. 0+00 THRU STA. 123+00.
EBB SHOALS AND FLOOD SHOALS AREAS

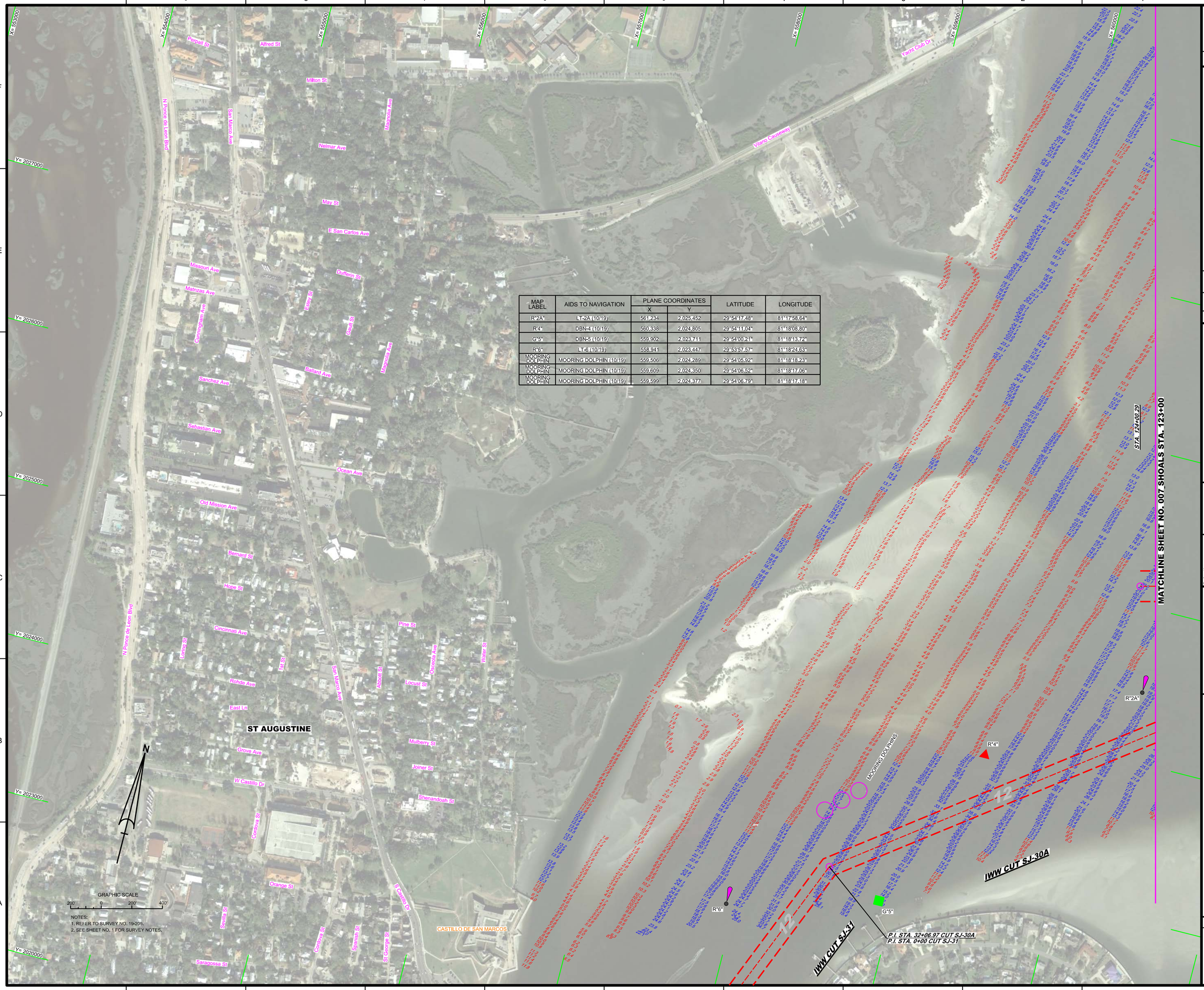
PLAN

Scale: AS SHOWN

Drawing no.

7

SHEET 07 OF 08



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"2A"	LT-2A (10/19)	561,234	2,025,452	29°54'17.48"	81°17'58.64"
R"4"	DBN-4 (10/19)	560,338	2,024,805	29°54'11.04"	81°18'08.80"
G"5"	DBN-5 (10/19)	559,902	2,023,711	29°54'00.21"	81°18'13.72"
R"6"	LT-6 (10/19)	558,941	2,023,447	29°53'57.57"	81°18'24.63"
MOORING DOLPHIN	MOORING DOLPHIN (10/19)	559,506	2,024,289	29°54'05.92"	81°18'18.23"
MOORING DOLPHIN	MOORING DOLPHIN (10/19)	559,609	2,024,350	29°54'06.52"	81°18'17.06"
MOORING DOLPHIN	MOORING DOLPHIN (10/19)	559,599	2,024,377	29°54'06.79"	81°18'17.18"

NOTES:
1. REFER TO SURVEY NO. 19-209.
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
Chkd by: GMR
Inv. No. W912EP-XX-X-XXXX
Date: OCT 2019

XXXXXXXX-X-X-XXXXXX.DGN
19-209-NAV.DGN
19-209-ST AUG ICD_2010.DGN
IWW-CAD-NICE.DGN
ST AUG CHANNEL-CNGMCCF.DGN
19-209-CAES-BRDR.DGN
Reference files:
19-209-VH-006_SHOALS.DGN
File name:

ST. AUGUSTINE INLET
ST. JOHNS COUNTY, FLORIDA

ST JOHNS COUNTY EBB AND FLOOD SHOALS SURVEY FY19

FLOOD SHOAL AREA

PLAN

Scale: AS SHOWN

Drawing no.

8

SHEET 08 OF 08