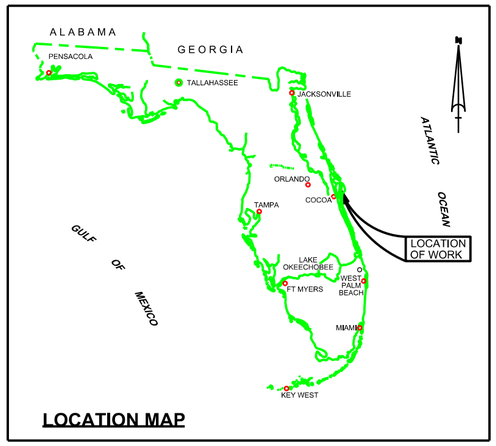
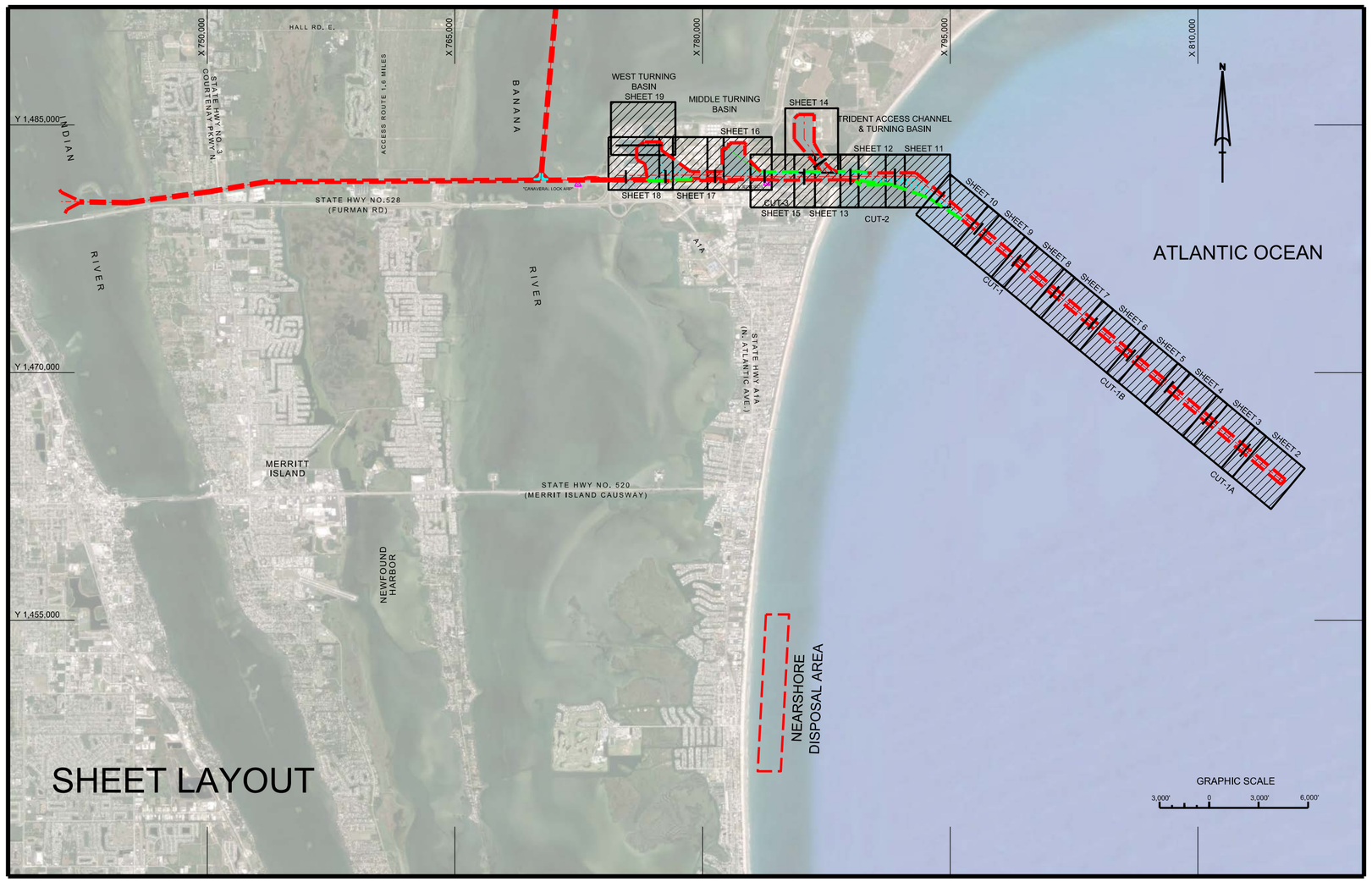
CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
3Q PORT HYDRO EXAM SURVEY FY20



LOCATION MAP



SURVEY NOTES

1. REFER TO SURVEY NO. 20-192.
2. 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: "CANAVERALHBR-2015 02 20.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. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   "REFERENCE BASE LOCATED AT "CANAVERAL LOCK ARP" (PID: BBCV67)

   "TIDE STAFF LOCATED FROM "JEFFORDS" (PID: BBCQ55)
7. 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 HEIGHTS OF THE BENCHMARKS BELOW:

   NOAA TIDAL STATION 872-1604, TRIDENT PIER, CANAVERAL, FL (PID: BBCQ55)
8. VERTICAL MEASUREMENTS WERE MADE USING A RESON T20P MULTI-BEAM SYSTEM AND A ROSS SMARTSOUNDER DUAL-FREQUENCY 28/200 KHZ SINGLE-BEAM TRANSDUCER OPERATING AT 28/200 KHZ. HIGH FREQUENCY SOUNDINGS ARE SHOWN FOR THE WEST ACCESS CHANNEL. LOW FREQUENCY SOUNDINGS SHOWN FOR CUTS 1, 2, 3, MTB, TRIDENT ACCESS CHANNEL, TRIDENT TURNING BASIN AND THE POSEIDON WHARF.

VESSEL	DATE OF SURVEY	CUT
SB-36	23 JUN 2020	MTB / POSEIDON WHARF
SB-36	24 JUN 2020	BARGE CANAL, WAC, WTB
SB-36	25 JUN 2020	CUTS 2, 3, TAC
SB-36	26 JUN 2020	CUTS 1, 2
FLORIDA II	18 JUL 2020	CUT-1A
FLORIDA II	19 JUL 2020	CUT-1B

9. AIDS TO NAVIGATION WERE LOCATED DURING 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 THE SURVEY.
11. SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIR5EMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 30 NOV 2013.

LEGEND
MONUMENT
LIGHTED BEACON
GREEN DAYBEACON
RED DAYBEACON
RED LIGHTED BUOY
GREEN LIGHTED BUOY
CAN BUOY
NUN BUOY
TIDE STAFF
8 PROJECT DEPTH

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
		A-N	ABCD

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

Drafted by: GMR
Designed by: WRM
DWN by: WRM
Rev. No.: - - -
Dated: JUL 2020

20-192-C-JB-SHEETS.DGN
CANTOPO-SHEET.DGN
CANAVERAL HARBOR-C-NGNCCF.DGN
CHLAYOUT83.DGN
Reference files:
20-192-VH-001.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

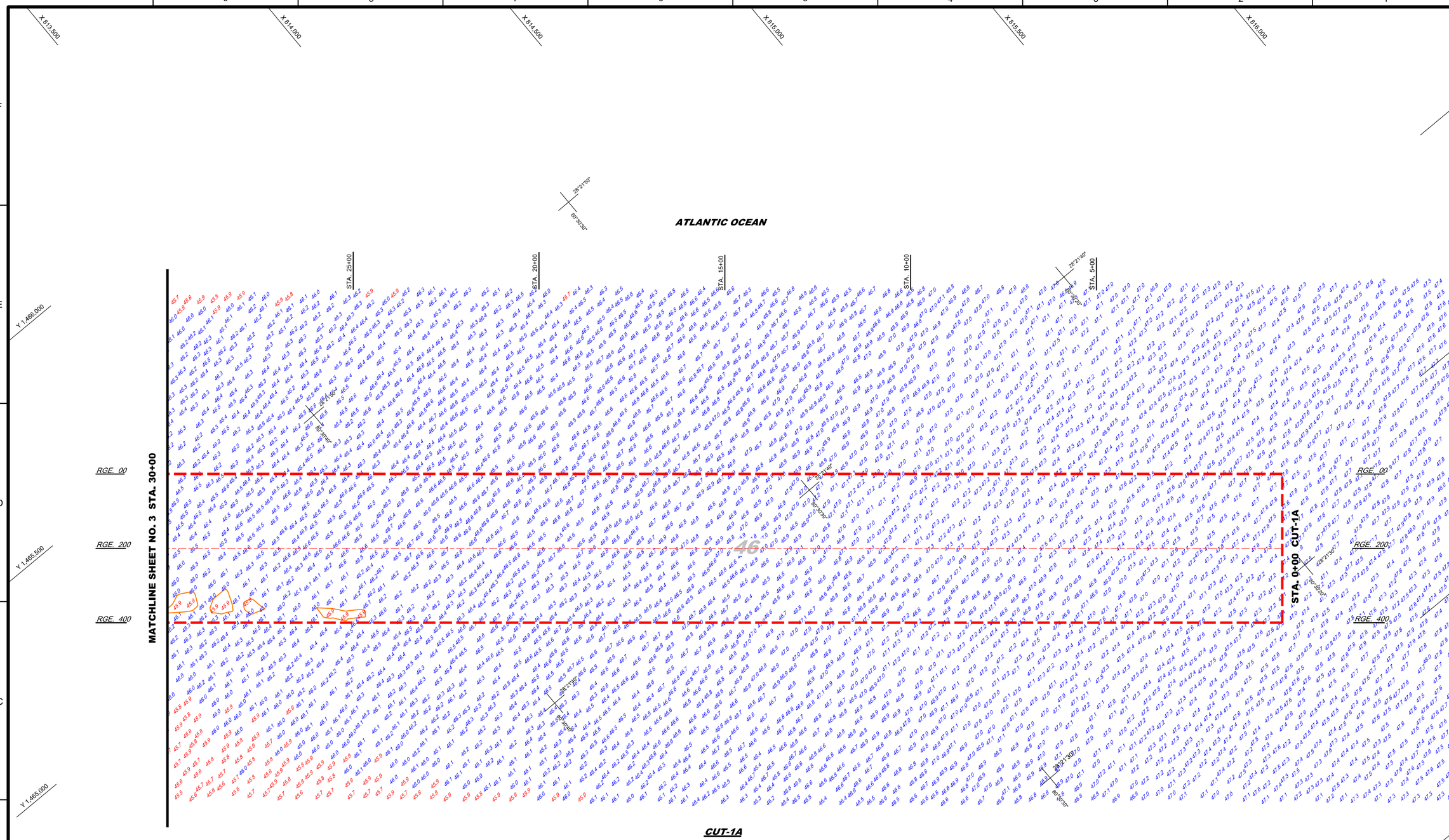
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
INDEX, LOCATION AND VICINTY PLAN

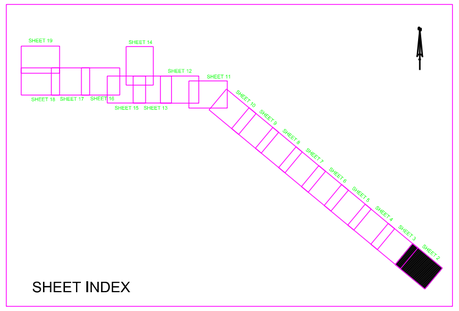
Scale: AS SHOWN

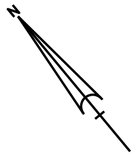
Drawing no.

1 / 18

SHEET 1 OF 19







GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A-N	ABCD	

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

Designed by: VRM
DWN by: VRM
Ckd by: GMR
Inv. No.: ---
Dates: JUL 2020

20-192-CAB-PRTR.DGN
CANAVERAL HARBOR-ACM CF.DGN
CHLTTICS.DGN
20-192A-SOUN_C1A_HF.DGN
20-192A-COM46.DGN

Reference files
20-192-VH-002.DGN
Parameter

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

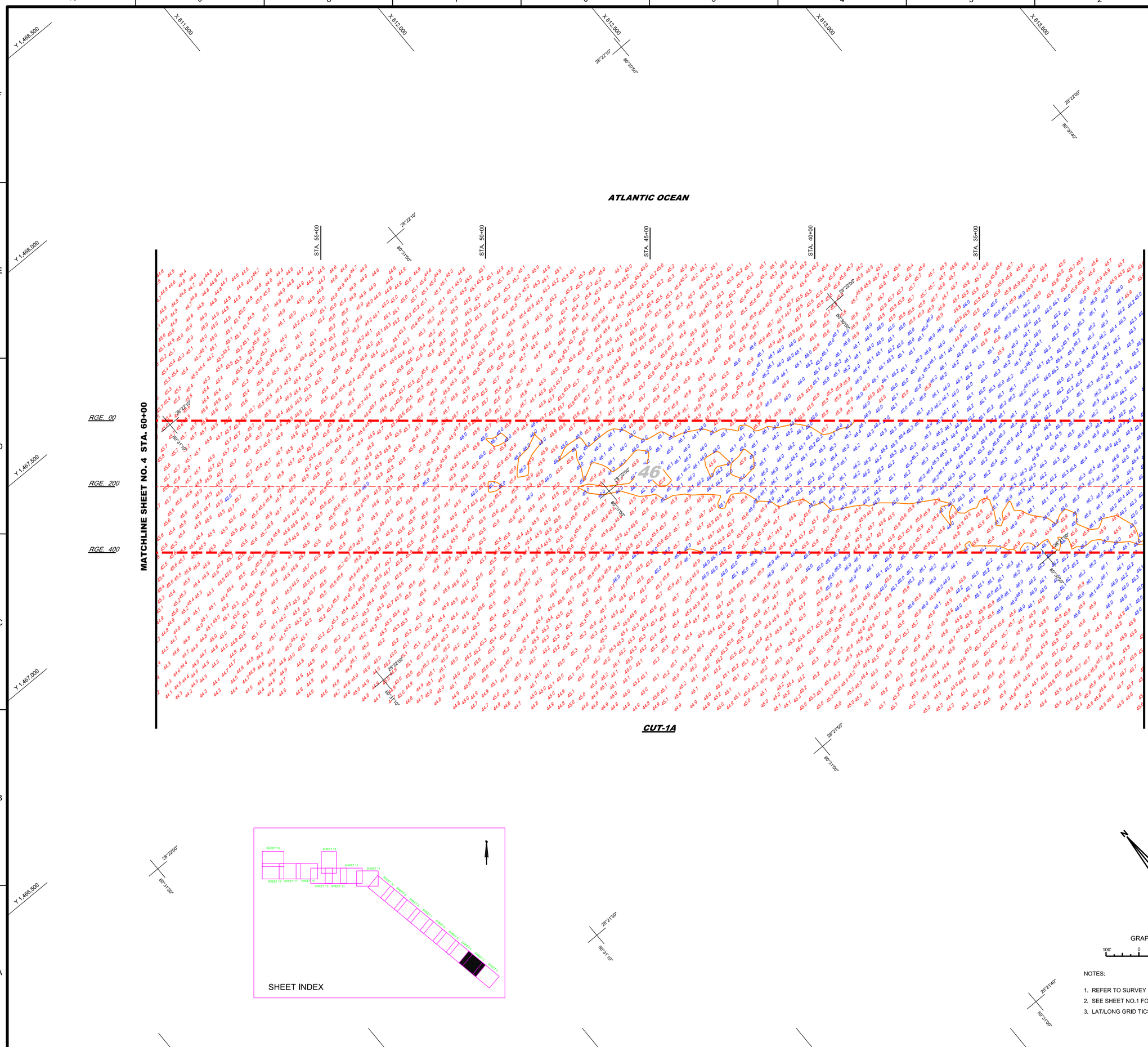
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 0+00 THRU 30+00 CUT - 1A
PLAN

Scale: AS SHOWN

Drawing no.

2 / 18

SHEET 2 OF 19



NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Drafted by: WRM
Chk'd by: GMR
DWN by: WRM
Rev. No. ---
Date: JUL 2020

20-192-C-JB-BRGR.DGN
CANAVERAL HARBOR-CANCCF.DGN
CHILLTICS.DGN
20-192A-SOUN_C1A_HF.DGN
20-192A-COMB.DGN

Reference files:

20-192-VH-003.DGN

File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

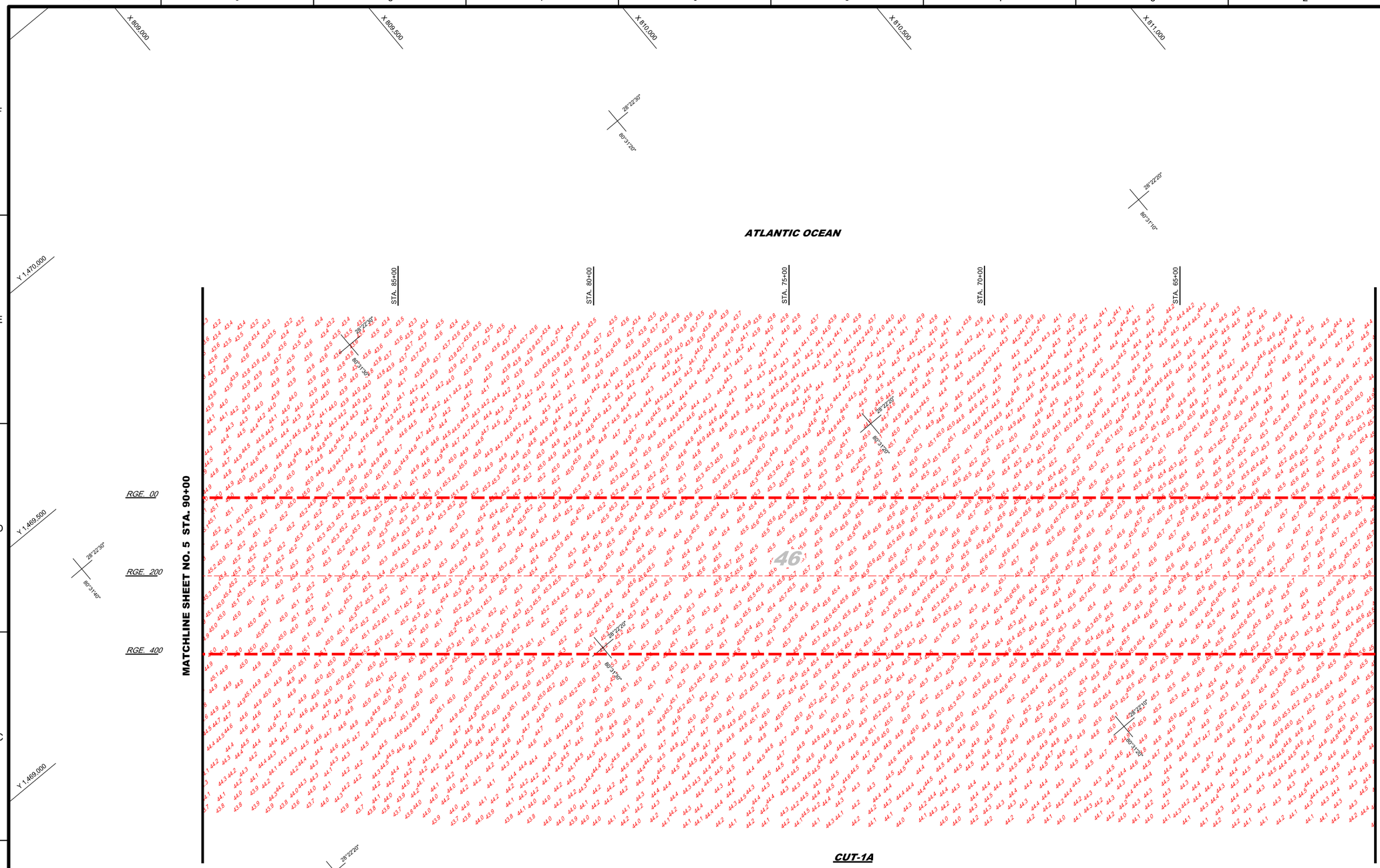
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 30+00 THRU 60+00 CUT - 1A
PLAN

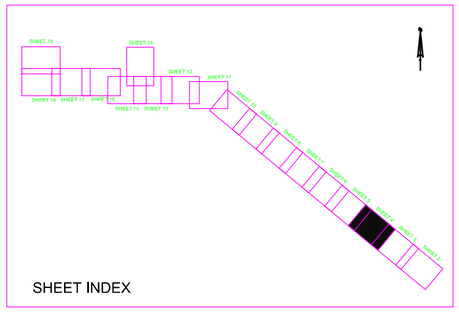
Scale: AS SHOWN

Drawing no.

3 / 18

SHEET 3 OF 19





SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Drafted by: WRM
Cad by: GMR
DWN by: WRM
Proj. No. - - -
Date: JUL 2020

Reference files:
20-192-CS-SHORE.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
20-192-V-SOUN_C1A_HF.DGN

20-192-VH-004.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

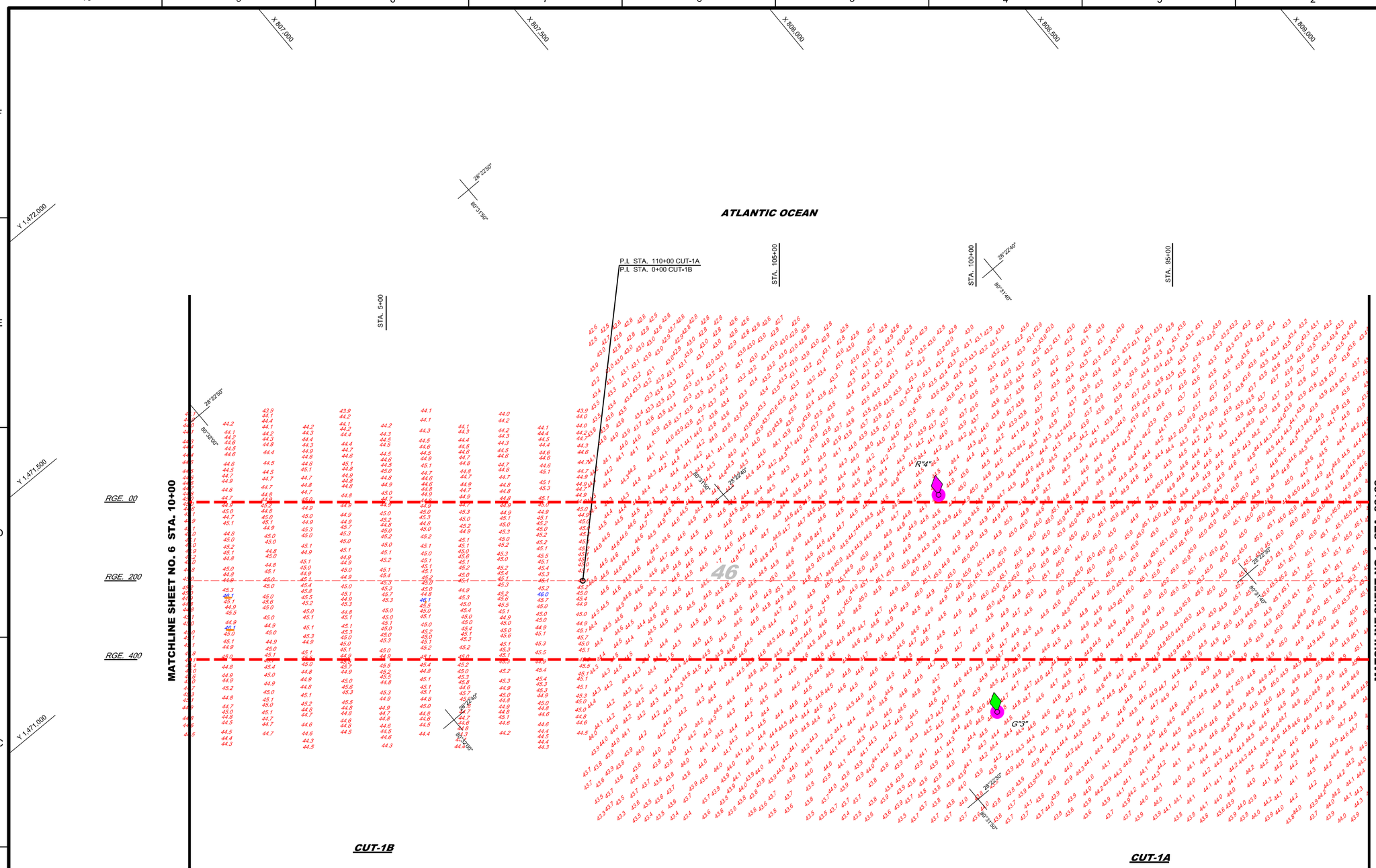
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 60+00 THRU 90+00 CUT - 1A
PLAN

Scale: AS SHOWN

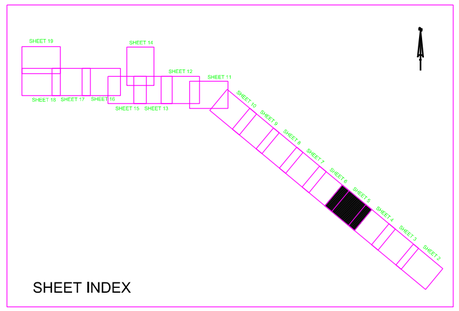
Drawing no.

4 / 18

SHEET 4 OF 19



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT. BUOY-3 (12/19)	807,304	1,469,454	28°22'31.16"	80°31'47.99"
R"4"	LT. BUOY-4 (12/19)	807,647	1,479,972	28°22'36.28"	80°31'44.12"



SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: GMR
Proj. No. ---
Date: JUL 2020

20-192-C-BB-BRDR.DGN
CANAVERAL HARBOR-C-ANCMCDF.DGN
CHILLTICS.DGN
20-192-A-SOUN_C1B_LF.DGN
20-192-A-SOUN_C1A_HF.DGN
20-192-A-CONUS.DGN
20-192-V-NAV.DGN
Reference files:

20-192-VH-005.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT

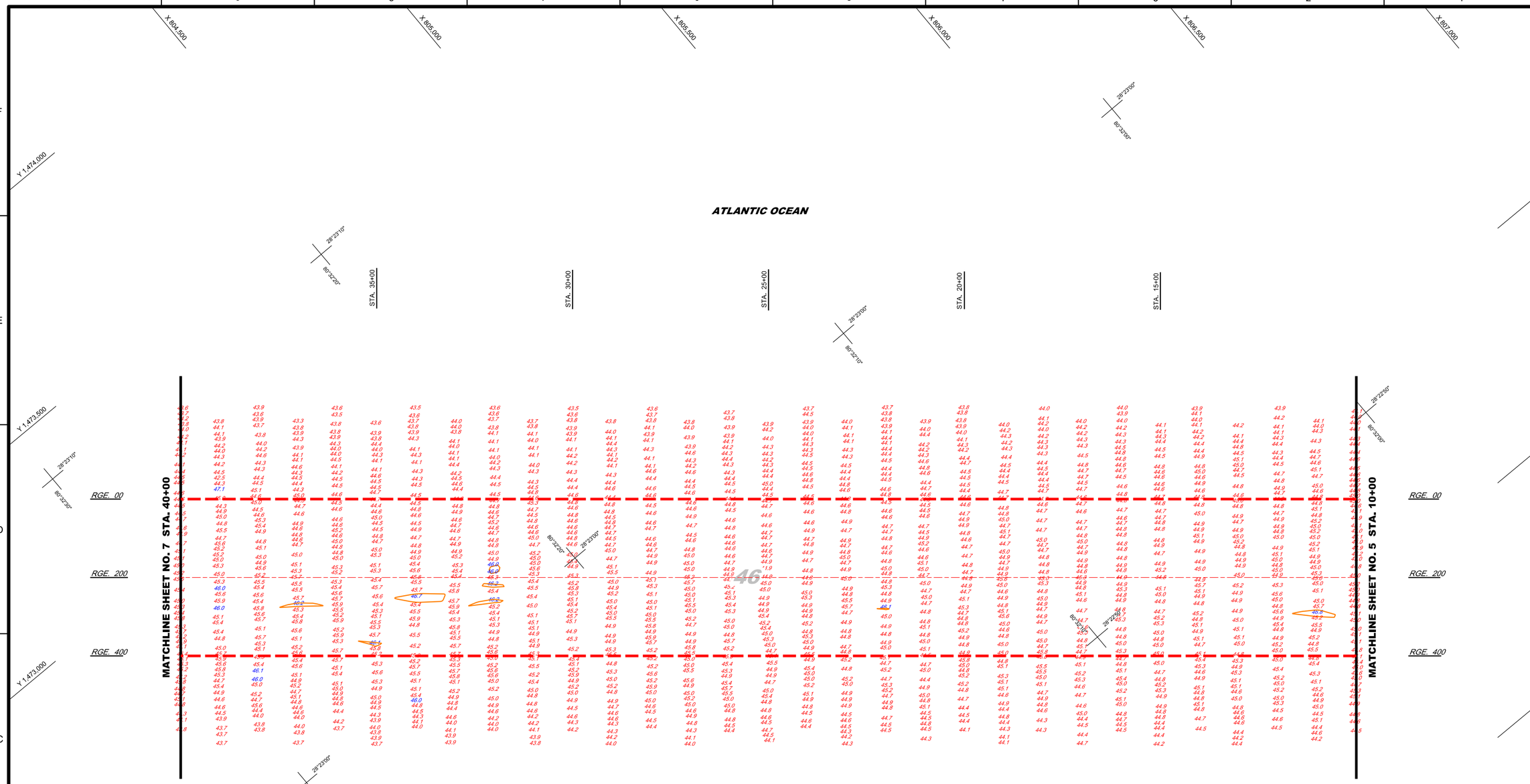
STA. 90+00 CUT - 1A THRU STA. 10+00 CUT - 1B PLAN

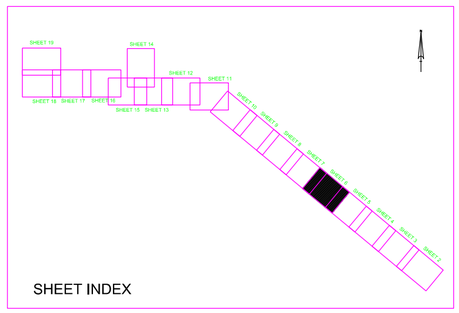
Scale: AS SHOWN

Drawing no.

5 / 18

SHEET 5 OF 19





SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
		A-N	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: GMR
Rev. No. ---
Date: JUL 2020

20-192-CJB-BRDR.DGN
CANAVERAL HARBOR-ANGMCCF.DGN
CHILLTICS.DGN
20-192-A-SOUN_C1B_LF.DGN
20-192-A-CONARL.DGN

Reference files:

20-192-VH-006.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

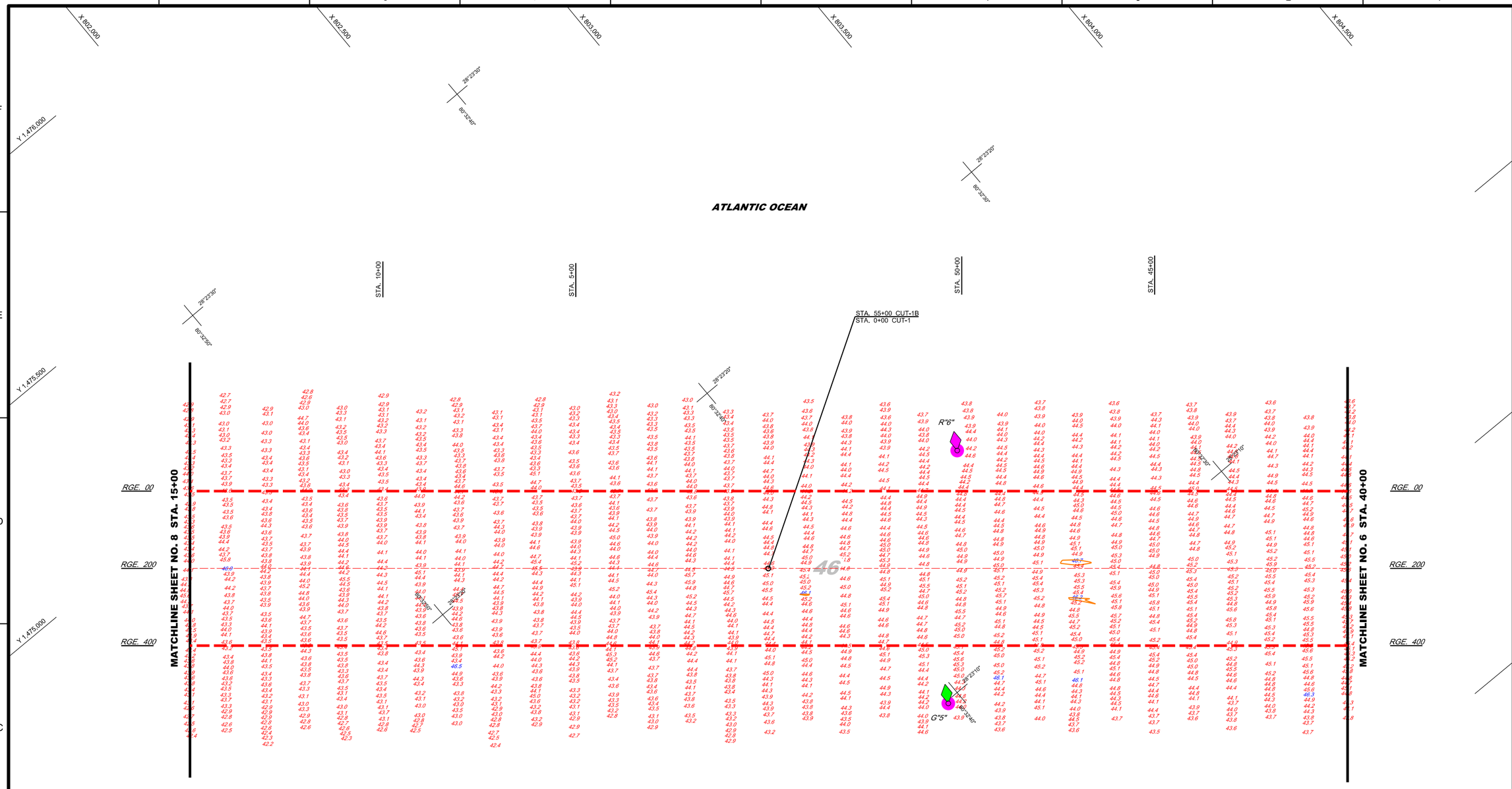
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 10+00 THRU STA. 40+00 CUT - 1B
PLAN

Scale: AS SHOWN

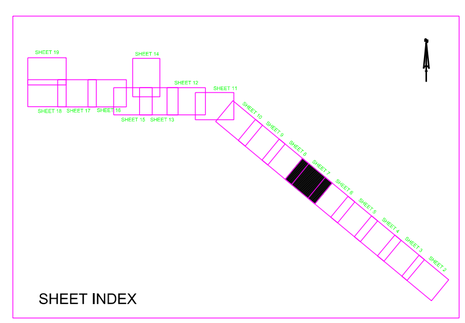
Drawing no.

6 / 18

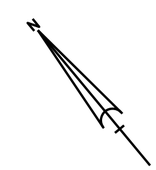
SHEET 6 OF 19



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"5"	LT. BUOY-5 (06/20)	802,608	1,473,352	28°23'09.93"	80°32'40.39"
R"6"	LT. BUOY-6 (06/20)	803,044	1,473,841	28°23'14.76"	80°32'35.48"



SHEET INDEX



GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: GMR
Rev. No.: - - -
Date: JUL 2020

20-192-CANAVERAL-HARBOR-CHILLTICS.DGN
20-192-CANAVERAL-HARBOR-ANGMCCF.DGN
20-192-VSOUN_C1_LF.DGN
20-192-VSOUN_C1_LF_F.DGN
20-192-VCONE.DGN
20-192-VNAV.DGN
Reference files:
20-192-VH-007.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT

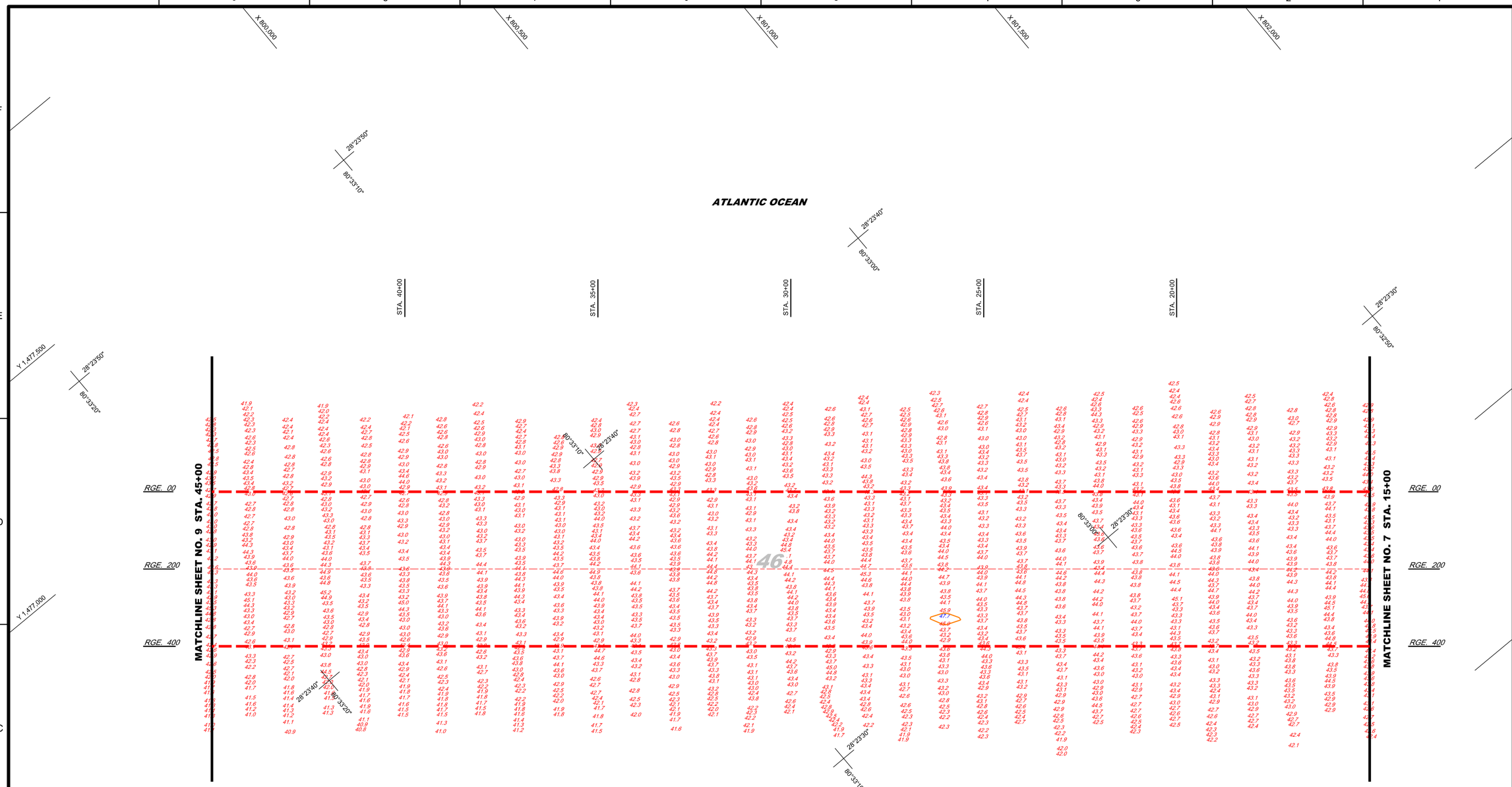
STA. 40+00 CUT - 1B THRU STA. 15+00 CUT - 1 PLAN

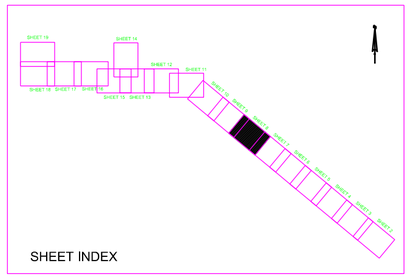
Scale: AS SHOWN

Drawing no.

7 / 18

SHEET 7 OF 19





SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
		A-N	ABCD

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

Drawn by: GMR
Designed by: WRM
DWN by: WRM
Inv. No. - - -
Dates: JUL 2020

20-192-CE-BRD.DGN
CANAVERAL HARBOR-NGMCCF.DGN
CHLLTICS.DGN
20-192A-SOUN_C1_LF.DGN
20-192A-CONVE.DGN

Reference files:

20-192-VH-008.DGN
File names:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

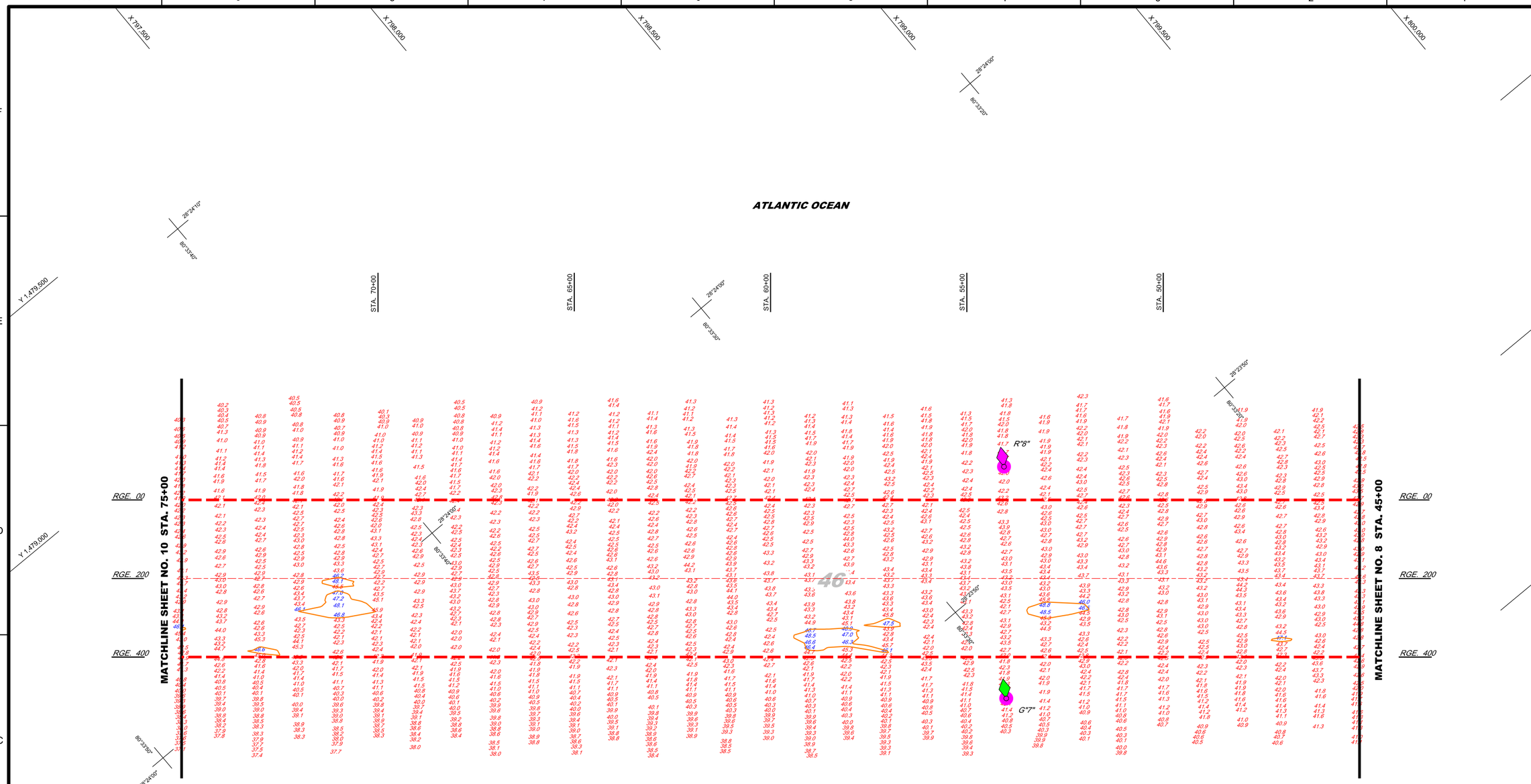
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 15+00 THRU STA. 45+00 CUT - 1
PLAN

Scale: AS SHOWN

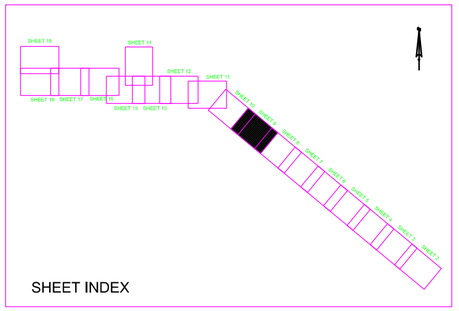
Drawing no.

8 / 18

SHEET 8 OF 19



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"7"	LT. BUOY-7 (06/20)	798,123	1,477,132	28°23'47.52"	80°33'30.45"
R"8"	LT. BUOY-8 (06/20)	798,495	1,477,589	28°23'52.03"	80°33'26.26"



SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
		A-N	ABCD

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

Designed by: WRM
DWN by: WRM
Cut by: GMR
Rev. No.: ---
Date: JUL 2020

20-192-C-SE-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHILLTICS.DGN
20-192-A-SOUN_C1_LF.DGN
20-192-A-SOUN_C2.DGN
20-192-A-CONN.DGN

Reference files:
20-192-VH-009.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT

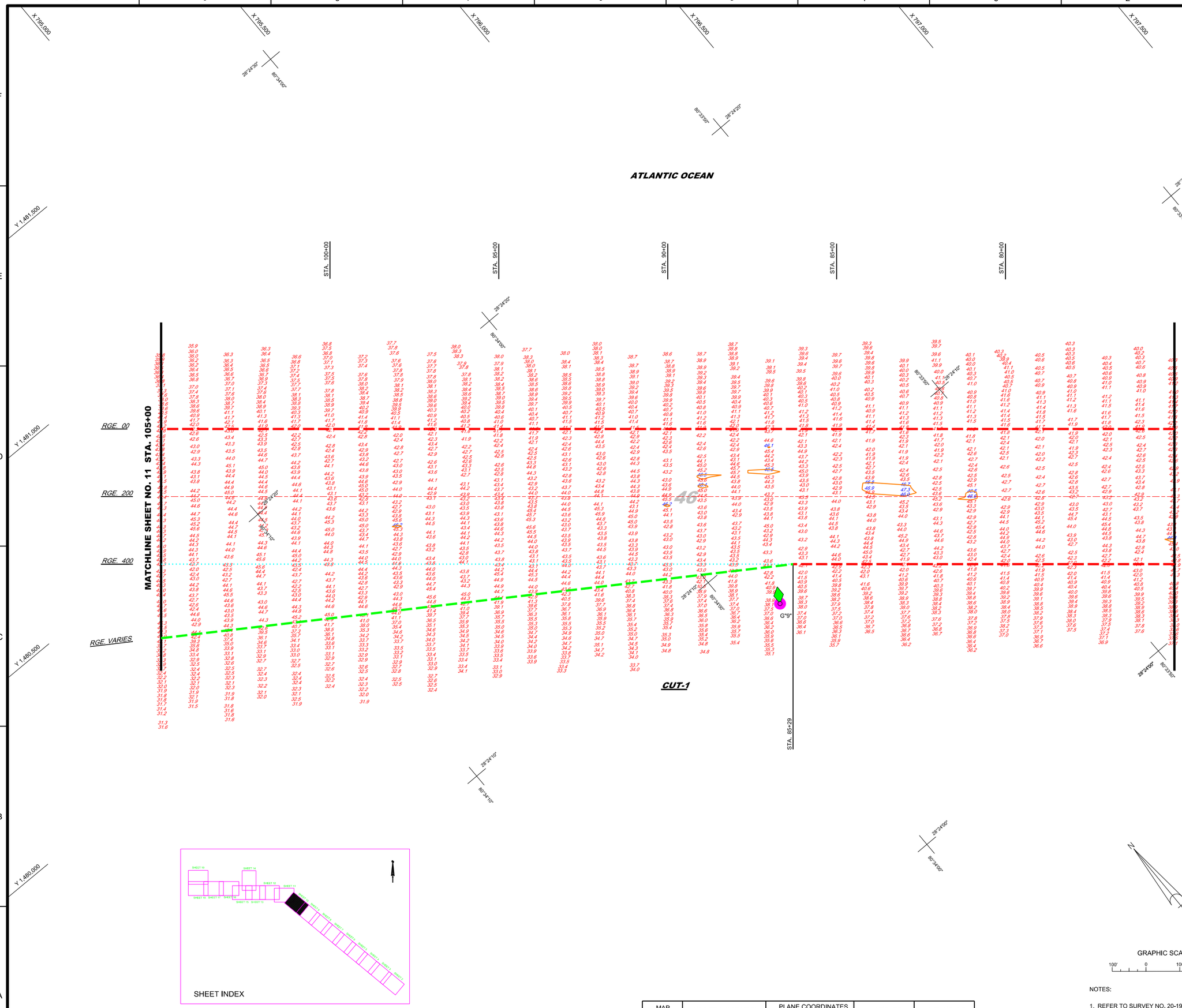
PLAN

Scale: AS SHOWN

Drawing no.

9 / 18

SHEET 9 OF 19



SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"9"	LT. BUOY-9 (06/20)	795,601	1,479,209	28°24'08.18"	80°33'58.60"

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
		A-N	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: GMR
Proj. No.: ---
Date: JUL 2020

20-192-CAN-BRDR-DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLTTICS.DGN
20-192A-SOUN_C1_LF.DGN
20-192A-SOUN_C1_RT.DGN
20-192A-NAVI.DGN

Reference files:
20-192-VH-010.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 75+00 THRU STA. 105+00 CUT - 1
PLAN

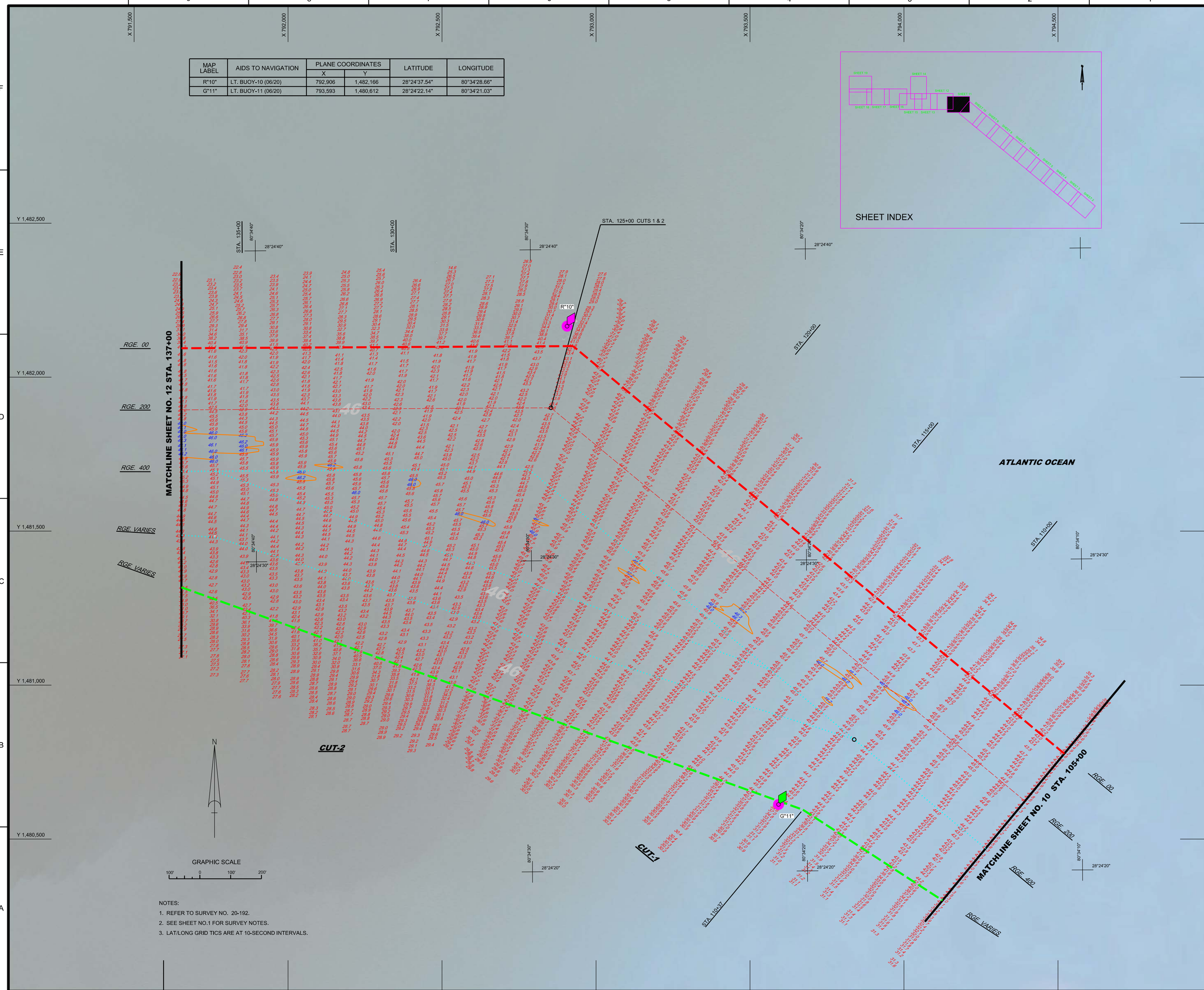
Scale: AS SHOWN

Drawing no.

10 / 18

SHEET 10 OF 19

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"10"	LT. BUOY-10 (06/20)	792,906	1,482,166	28°24'37.54"	80°34'28.66"
G"11"	LT. BUOY-11 (06/20)	793,593	1,480,612	28°24'22.14"	80°34'21.03"



NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Rev. No.:
Dated: JUL 2020

20-192-CUB-SHEETS.DGN
CANAVERAL-HARBOR-A-NGMCCF.DGN
CHLITPCS.DGN
20-192-V-SOUL_C1_LF.DGN
20-192-V-SOUL_C2_LF.DGN
20-192-V-CONES.DGN
20-192-V-NAV.DGN
Reference files:

20-192-VH-011.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT

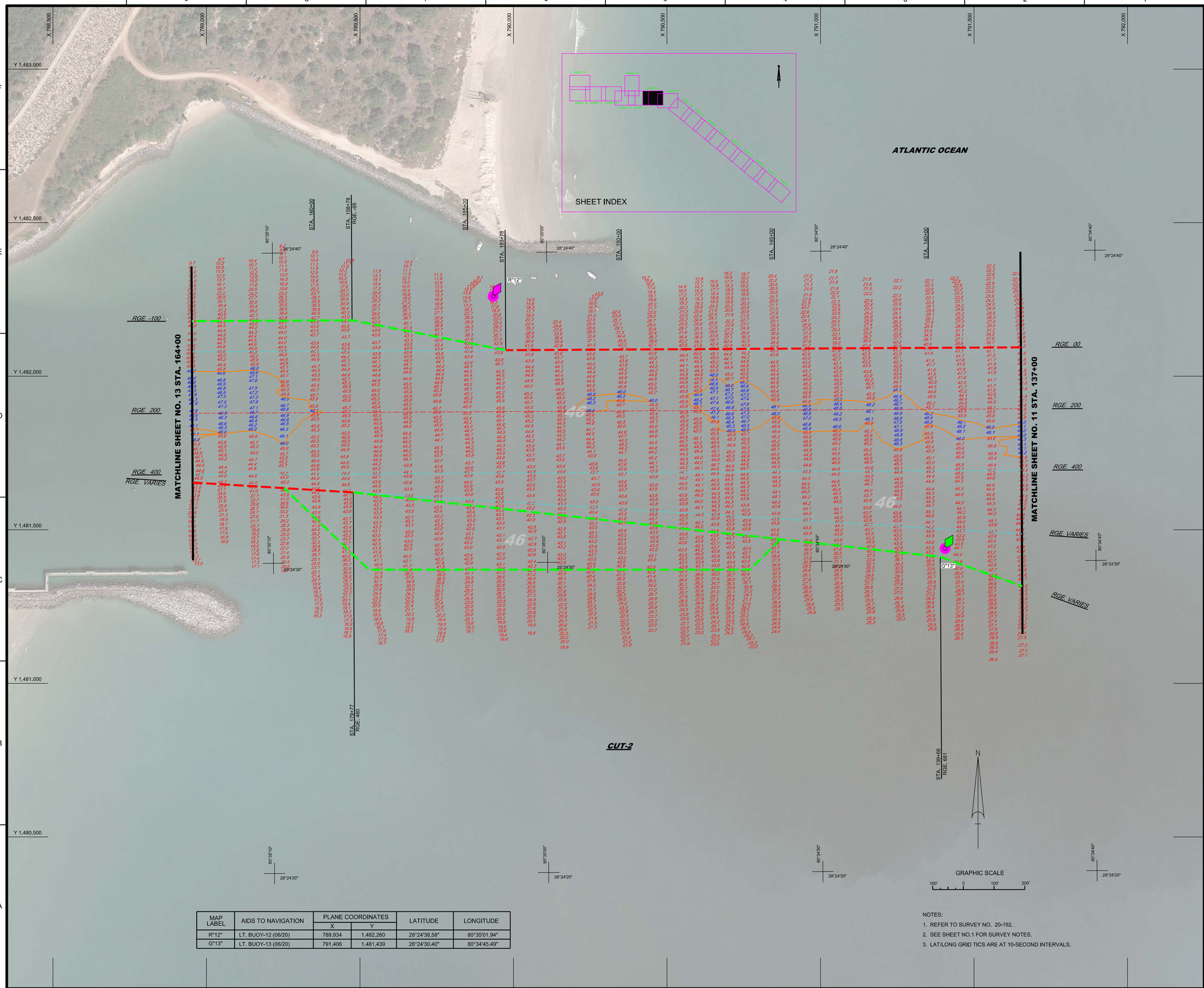
STA. 105+00 CUT - 1 THRU STA. 137+00 CUT - 2 PLAN

Scale: AS SHOWN

Drawing no.

11 / 18

SHEET 11 OF 19



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"12"	LT. BUOY-12 (06/20)	789,934	1,482,260	28°24'38.58"	80°35'01.94"
G"13"	LT. BUOY-13 (06/20)	791,406	1,481,439	28°24'30.40"	80°34'45.49"

NOTES:

1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO.1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N		A-N	ABCD

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

Cad by: GMR
Designed by: WRM
DWN by: WRM
Rev. No. - - -
Date: JUL 20,20

20-192-CAN-BR25.DGN
CANAVERAL HARBOR-CNGMCCF.DGN
CHLTTICS.DGN
20-192-V-SOUN_C2_LF.DGN
20-192-V-SOUN_C2.DGN
20-192-V-AAVL.DGN

Reference files:

20-192-VH-012.DGN

File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3G HYDROGRAPHIC EXAM SURVEY FY20

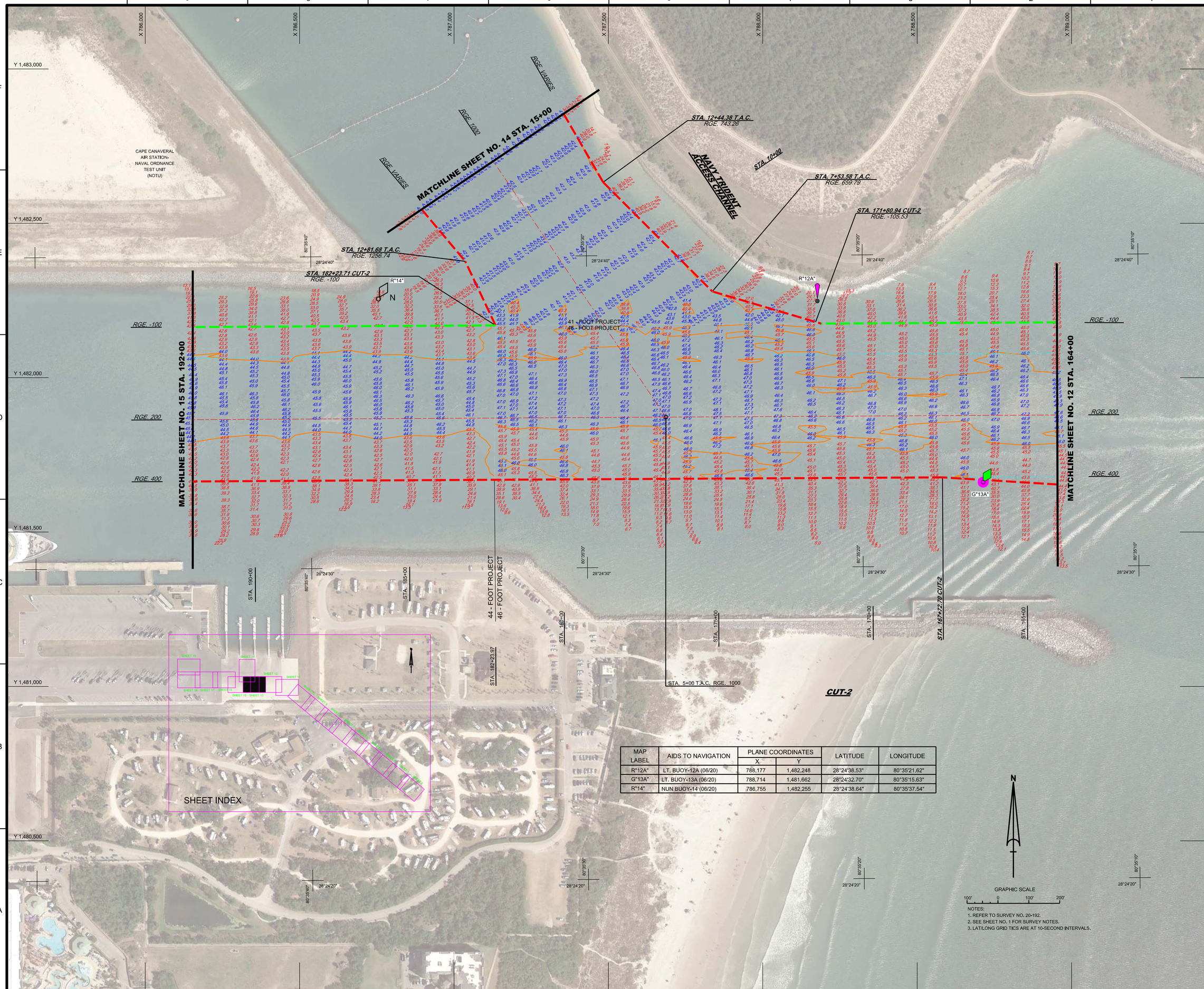
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 137+00 THRU STA. 164+00 CUT - 2
PLAN

Scale: AS SHOWN

Drawing no.

12 / 18

SHEET 12 OF 19



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"12A"	LT. BUOY-12A (06/20)	788,177	1,482,248	28°24'38.53"	80°35'21.62"
G"13A"	LT. BUOY-13A (06/20)	788,714	1,481,662	28°24'32.70"	80°35'15.63"
R"14"	NUN BUOY-14 (06/20)	786,755	1,482,255	28°24'38.64"	80°35'37.54"

NOTES:
1. REFER TO SURVEY NO. 20-192.
2. SEE SHEET NO. 1 FOR SURVEY NOTES.
3. LAT/LONG GRID TICS ARE AT 10-SECOND INTERVALS.

US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

No.	Symbol	Zone	Description
N	A	A-N	ABCD

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

Cad by: GMR
Designed by: WRM
DWN by: WRM
Rev. No.: - - -
Dated: JUL 2020

20-192-CJB-BR23.DGN
CANAVERAL-HARBOR-A-NGMCCF.DGN
CHLLTPCS.DGN
20-192-V-SOUN_C2_LF.DGN
20-192-V-SOUN_C2_LF_LF.DGN
20-192-V-CONA1.DGN
20-192-V-CONA4.DGN
20192VA-CONA6.DGN
Reference files:

20-192-VH-013.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 164+00 THRU STA. 192+00 CUT - 2
PLAN

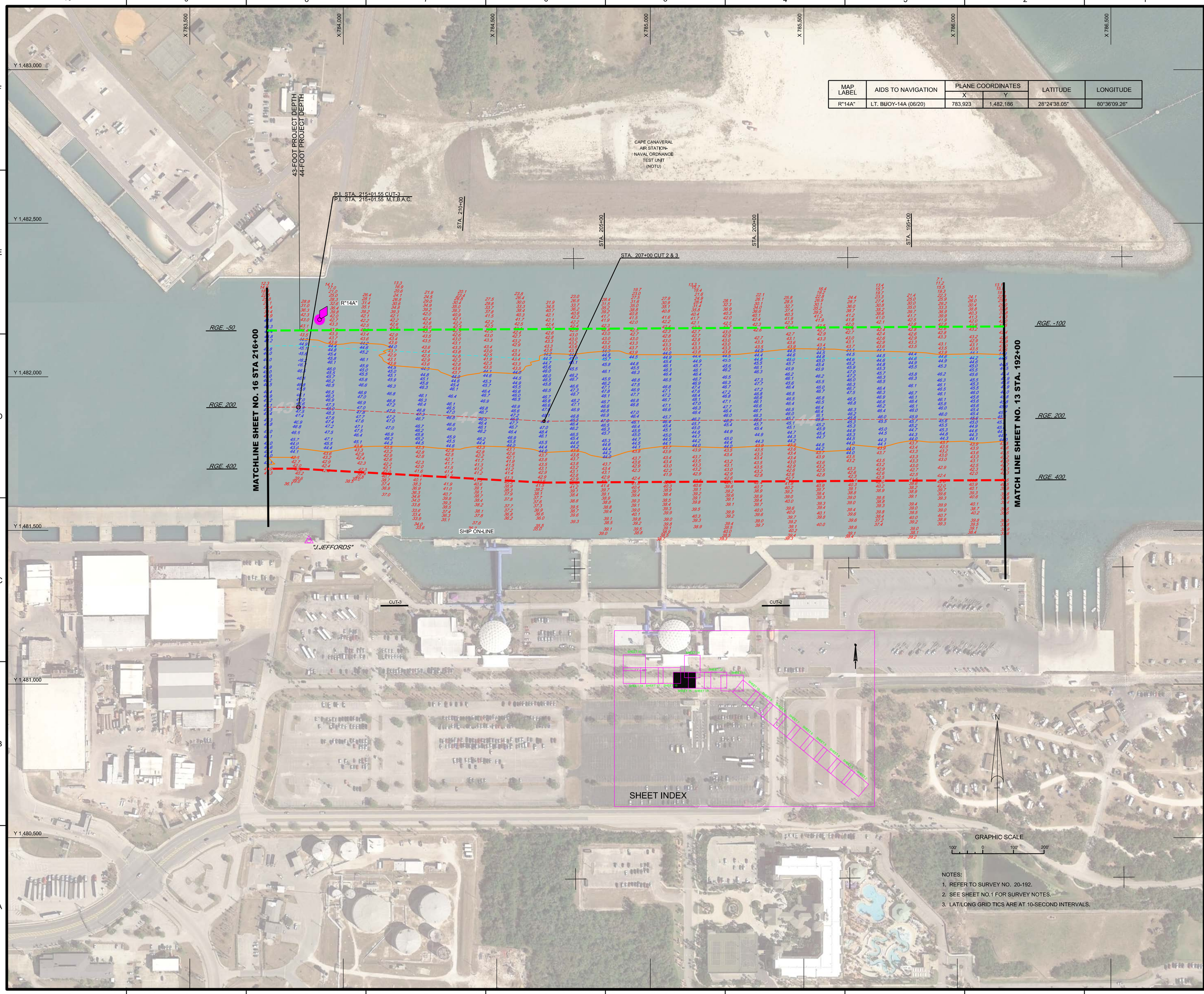
Scale: AS SHOWN

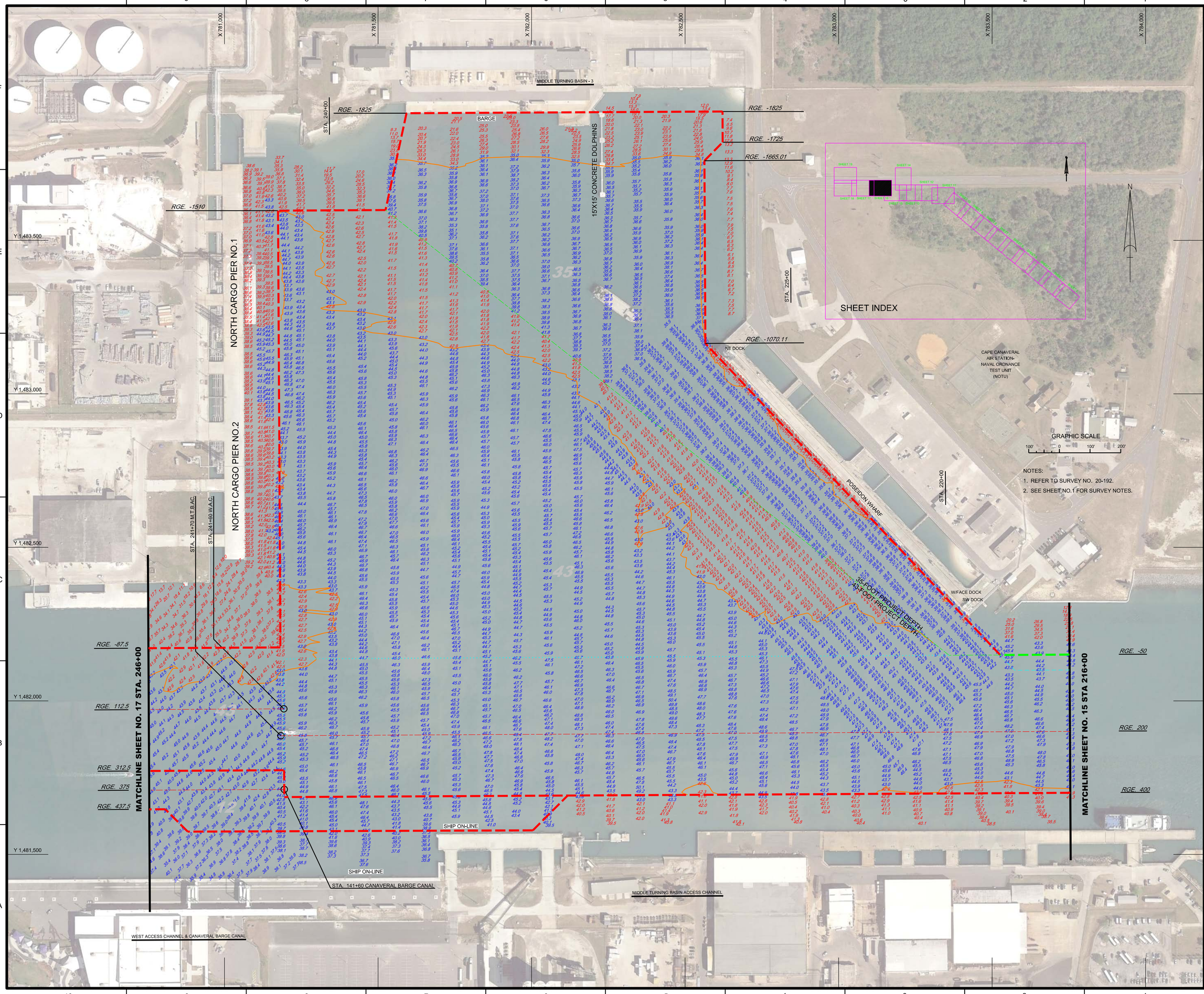
Drawing no.

13 / 18

SHEET 13 OF 19

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"14A"	LT. BUOY-14A (06/20)	783,923	1,482,186	28°24'38.05"	80°36'09.26"





NOTES:

1. REFER TO SURVEY NO. 20-192.
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	Description
		A-N	ABCD

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

Cad by: GMR

Designed by: WRM
Drawn by: WRM
Rev. No. - - -
Date: JUL 2020

20-192-C-BR-BRDR.DGN
CANAVERAL HRBR-CDR-C-NGMCCF.DGN
20-192-X-SOUN_MTB_LF.DGN
20-192-X-SOUN_WAC-WTB-CBC.DGN
20-192-X-CONS-SHEET.DGN
20-192-X-CONS.DGN
20-192-X-CON41.DGN
20-192-X-CON43.DGN

Reference files:
20-192-VH-016.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 216+00 M.T.B.A.C. THRU STA. 246+00 W.A.C.
PLAN

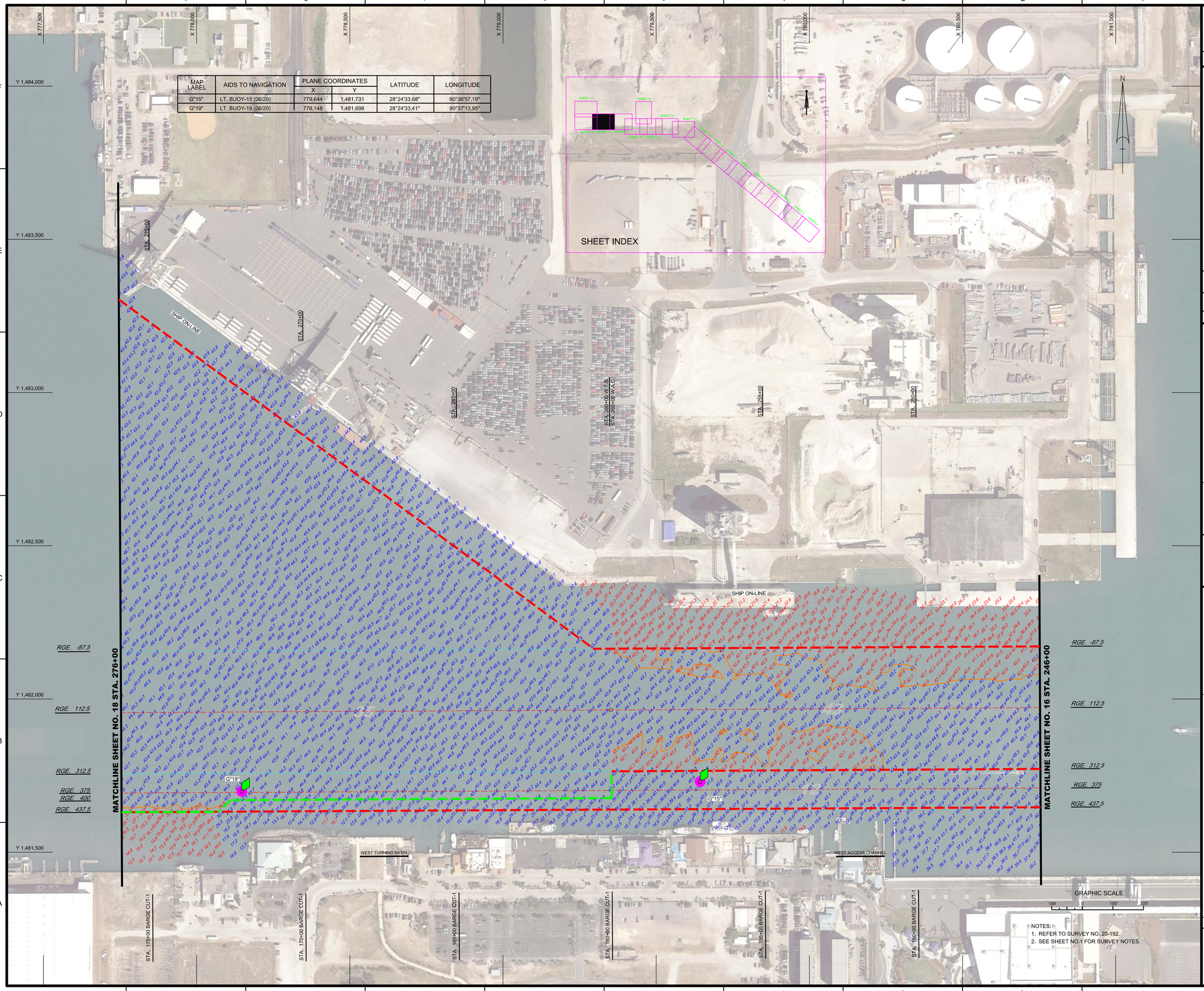
Scale: AS SHOWN

Drawing no.

15 / 18

SHEET 16 OF 19

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
G"15"	LT. BUOY-15 (06/20)	779,644	1,481,731	28°24'33.68"	80°36'57.19"
G"19"	LT. BUOY-19 (06/20)	778,148	1,481,698	28°24'33.41"	80°37'13.95"



NOTES:
1. REFER TO SURVEY NO. 20-192.
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	Description
N		A-N	ABCD

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

Drafted by: WRM
Cad by: GMR
DWN by: WRM
Inv. No. - - -
Date: JUL 2020

20-192-CE-SE-REDS.DGN
CE-NAVIGATION-HARBOR-C-NGMCCF.DGN
20-192-VI-SOUN_WAC-WTB-CBC.DGN
20-192-A-CONS.DGN
20-192-A-CONS-1.DGN
20-192-A-HAVI.DGN

Reference files:
20-192-VP-017.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 246+00 W.A.C. THRU STA. 276+00 W.T.B. PLAN

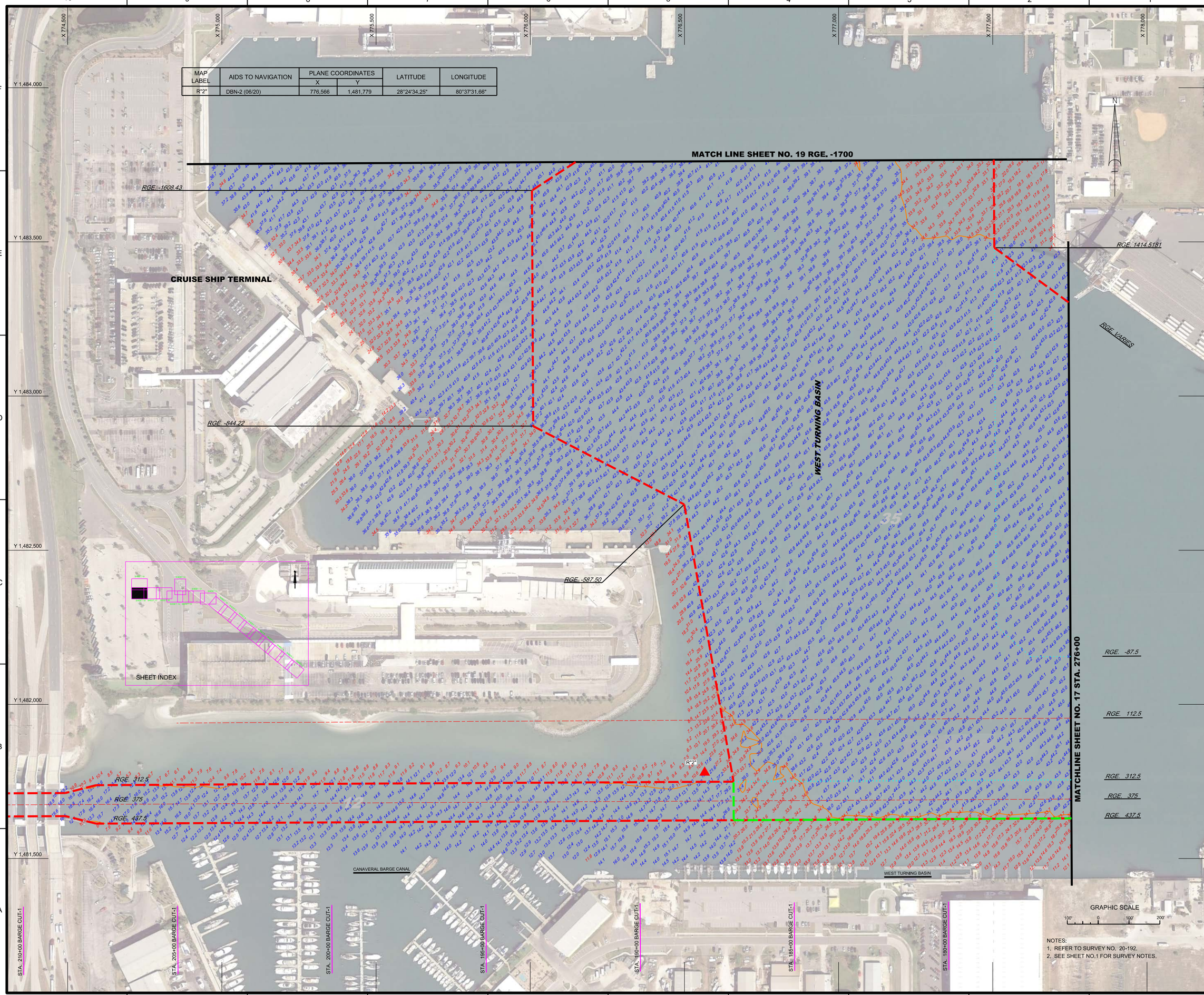
Scale: AS SHOWN

Drawing no.

16 / 18

SHEET 17 OF 19

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"2"	DBN-2 (06/20)	776,566	1,481,779	28°24'34.25"	80°37'31.66"



NOTES:
1. REFER TO SURVEY NO. 20-192.
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	Description
N		A-N	ABCD

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

Designed by: WRM
Drawn by: WRM
Checked by: GMR
Proj. No.: ---
Date: JUL 2020

20-192-A-B-C-BRDG.DGN
CANAVERAL HARBOR-C-NIGMCCF.DGN
20-192A-SOUN_WAC-WTB-C-BC.DGN
20-192A-CON12.DGN
20-192A-CON13.DGN
20-192A-NAVA.DGN

Reference files:
20-192-VH18.DGN
Fla-sanc

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

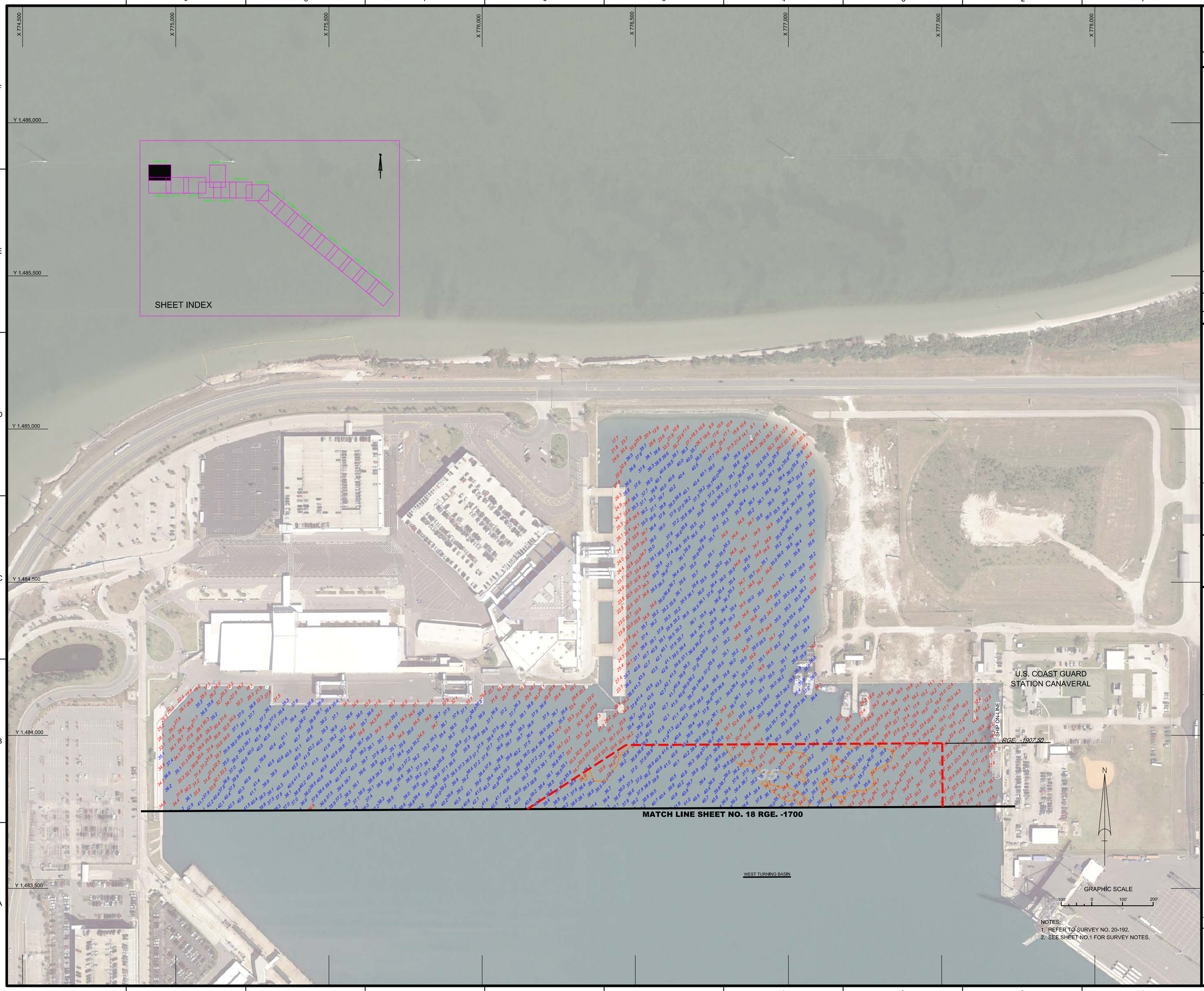
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 276+00 W.T.B. THRU END OF WEST TURNING BASIN
PLAN

Scale: AS SHOWN

Drawing no.

17 / 18

SHEET 18 OF 19



NOTES:
1. REFER TO SURVEY NO. 20-192.
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	Description
N		A-N	ABCD

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

Drawn by: GMR
Designed by: WRM
Checked by: WRM
Rev. No. - -
Date: JUL 2020

20-192-C-Sub-BRDR.DGN
CANAVERAL HARBOR-CNGMCCF.DGN
20-192-VSOUN_WAC-WTB-CBC.DGN
20-192-V-CON35.DGN

Reference files:
20-192-VH-019.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

3Q HYDROGRAPHIC EXAM SURVEY FY20

35, 39, 41, 43, 44 AND 46-FOOT PROJECT
WEST TURNING BASIN PLAN

Scale: AS SHOWN

Drawing no.

18 / 18

SHEET 19 OF 19