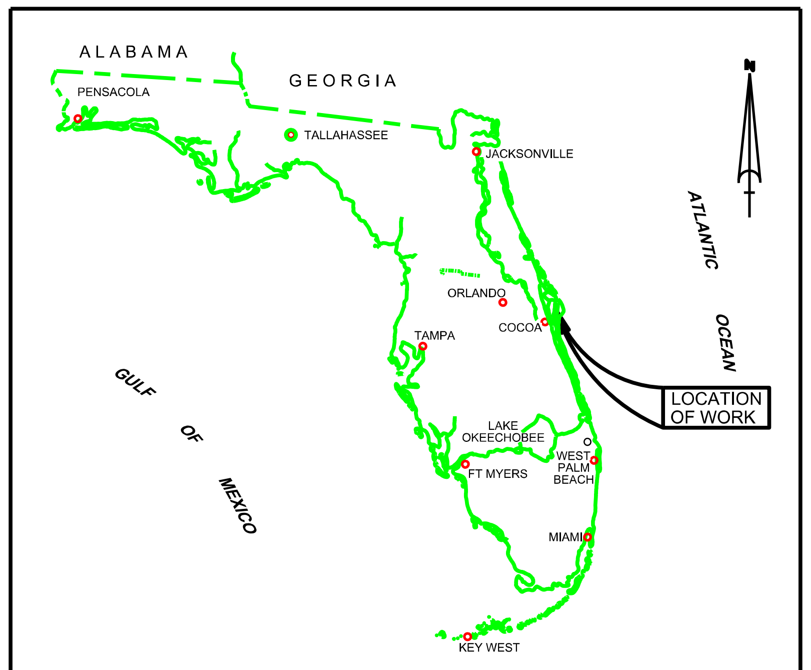
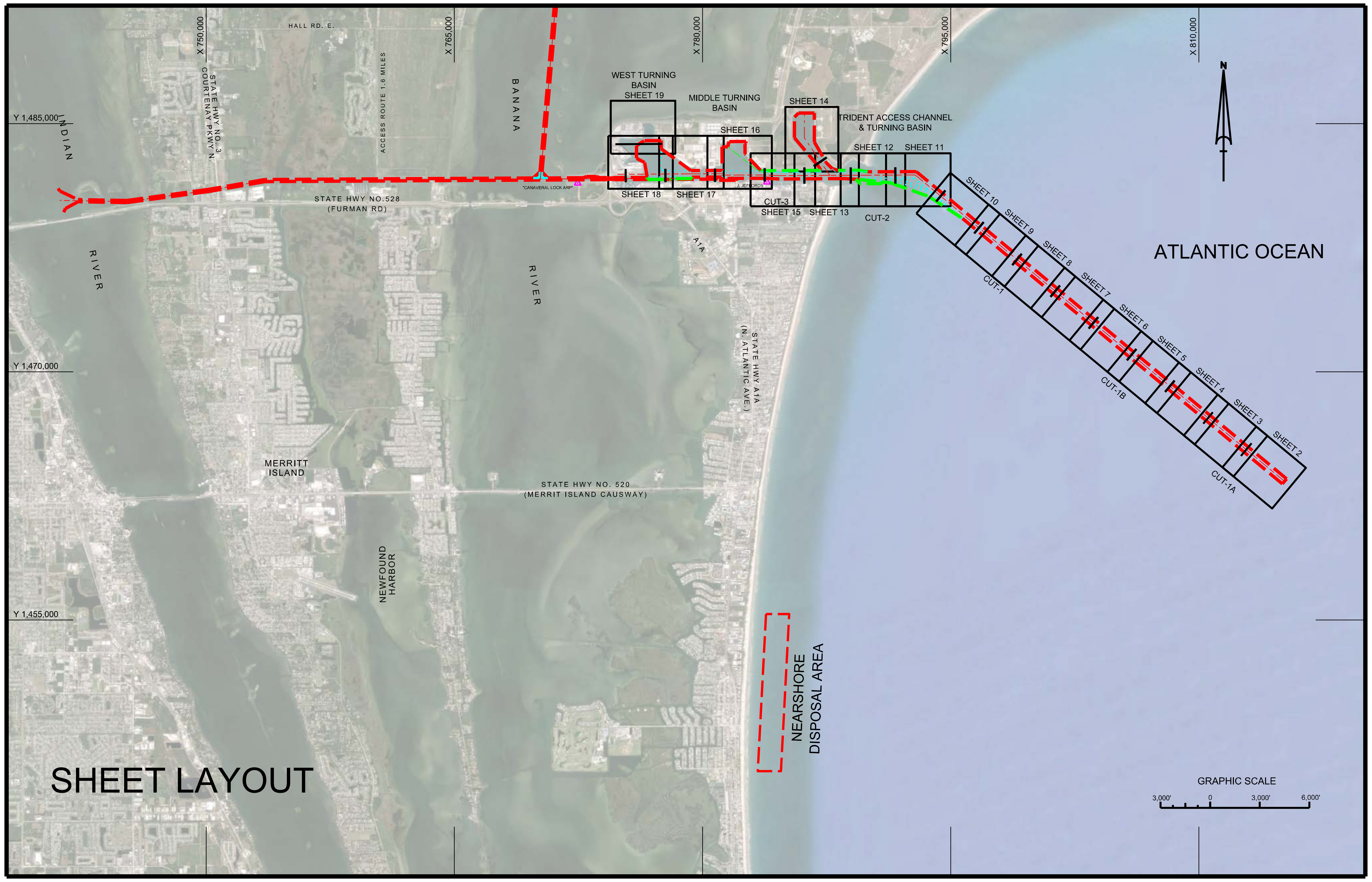
US Army Corps of Engineers
Jacksonville District

SAFETY ON THIS JOB DEPENDS ON YOU

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
4Q HYDROGRAPHIC EXAM SURVEY FY19



LOCATION MAP



SURVEY NOTES

1. REFER TO SURVEY NO. 19-253.

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" (OPUS PID: BBCV67)

   "TIDE STAFF LOCATED FROM "JEFFORDS" (COE 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 R2 SONIC 2024 MULTI-BEAM SYSTEM OPERATING AT 240 KHZ, AN EDGETECH 6205 SIDESCAN AND MULTI-BEAM TRANSDUCER AND A ROSS SMARTSOUNDER SINGLE-BEAM TRANSDUCER OPERATING AT 28/200 KHZ. HIGH FREQUENCY SOUNDINGS ARE SHOWN FOR THE WEST ACCESS CHANNEL, WEST TURNING BASIN AND CUT-1A. LOW FREQUENCY SOUNDINGS SHOWN FOR CUTS 1B, 1, 2, 3, MTB AND THE POSEIDON WHARF.

VESSEL	DATE OF SURVEY	CUT
SB-52	10-11 SEP 2019	CUTS 2 & 3
SB-52	10 SEP 2019	MTB / POSEIDON WHARF
SB-52	11 SEP 2019	WTB, WAC, BARGE CANAL
SV FLORIDA II	18 SEP 2019	CUT-1
SV FLORIDA II	17, 19 SEP 2019	CUTS 1A & 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

Symbol	Zone	Description
	A-N	ABCD

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANTOPO 8390.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLAYOUT83.DGN

File name: 19-253-VH-001.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

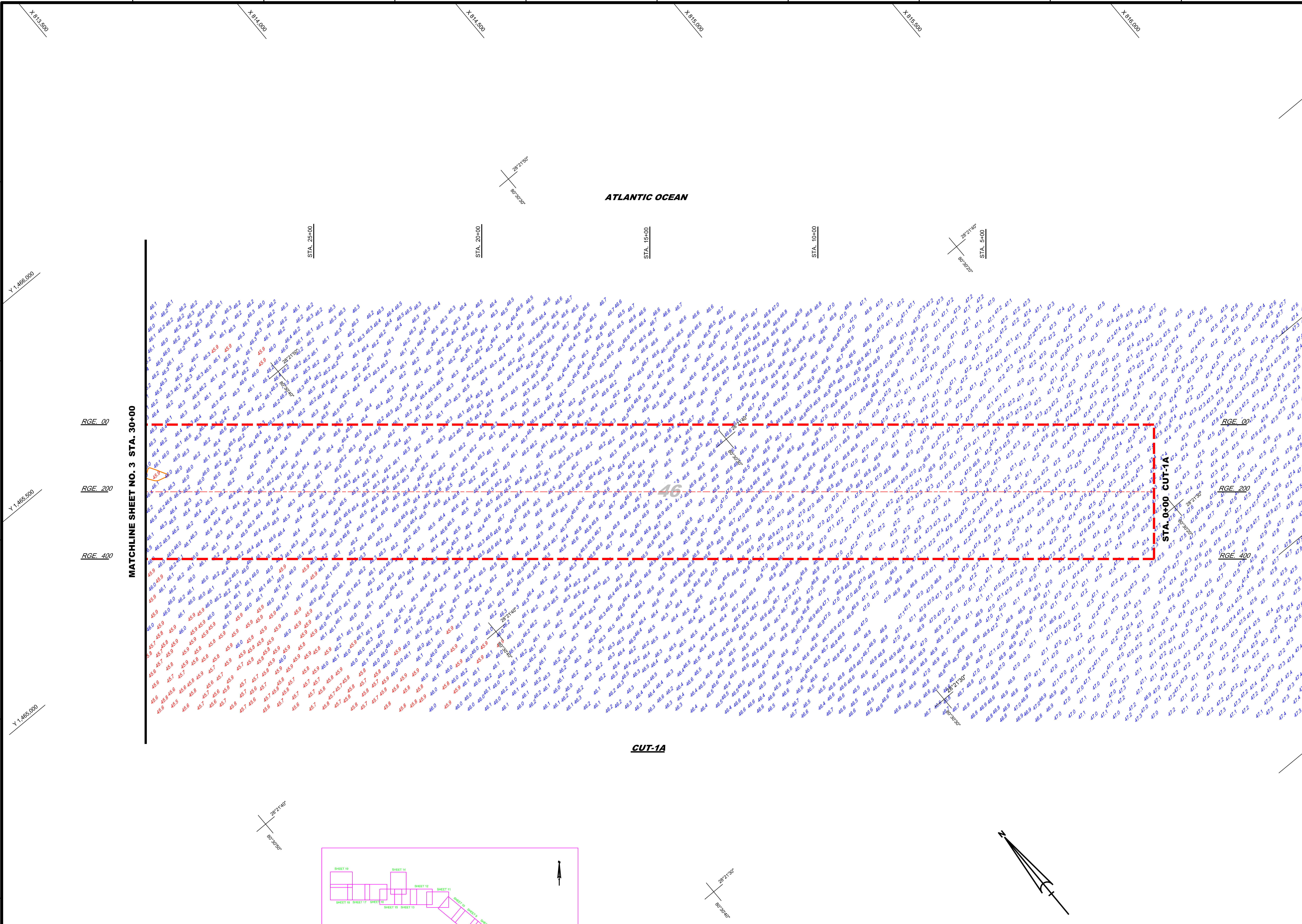
35, 39, 41, 43, 44 AND 46-FOOT PROJECT INDEX, LOCATION AND VICINTY PLAN

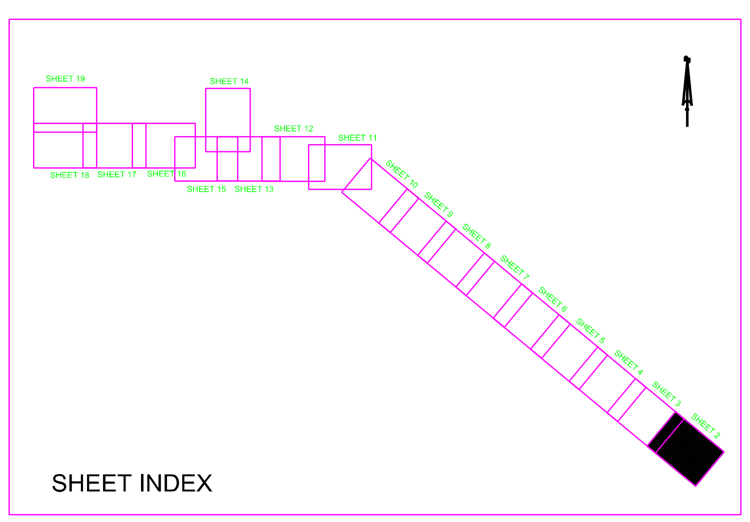
Scale: AS SHOWN

Drawing no.

1 / 18

SHEET 1 OF 19





NOTES:

1. REFER TO SURVEY NO. 19-253.
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

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C1A_HF.DGN
19-253-V-CON50.DGN

File name: 19-253-VH-002.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

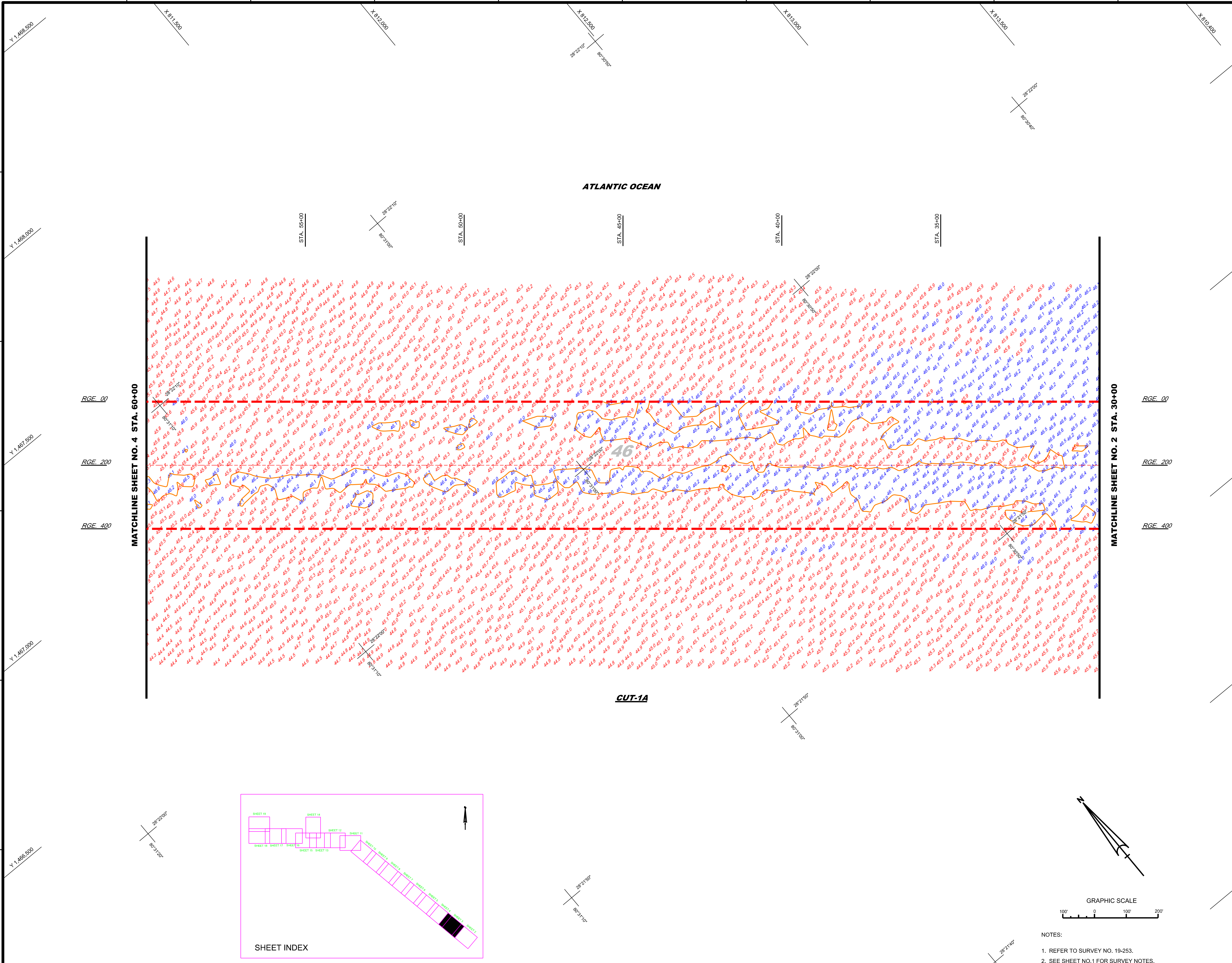
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 0+00 THRU 30+00 CUT - 1A
PLAN

Scale: AS SHOWN

Drawing no.

2 / 18

SHEET 2 OF 19



NOTES:

1. REFER TO SURVEY NO. 19-253.
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

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C1A_HF.DGN
19-253-V-CON46.DGN

File name: 19-253-VH-003.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

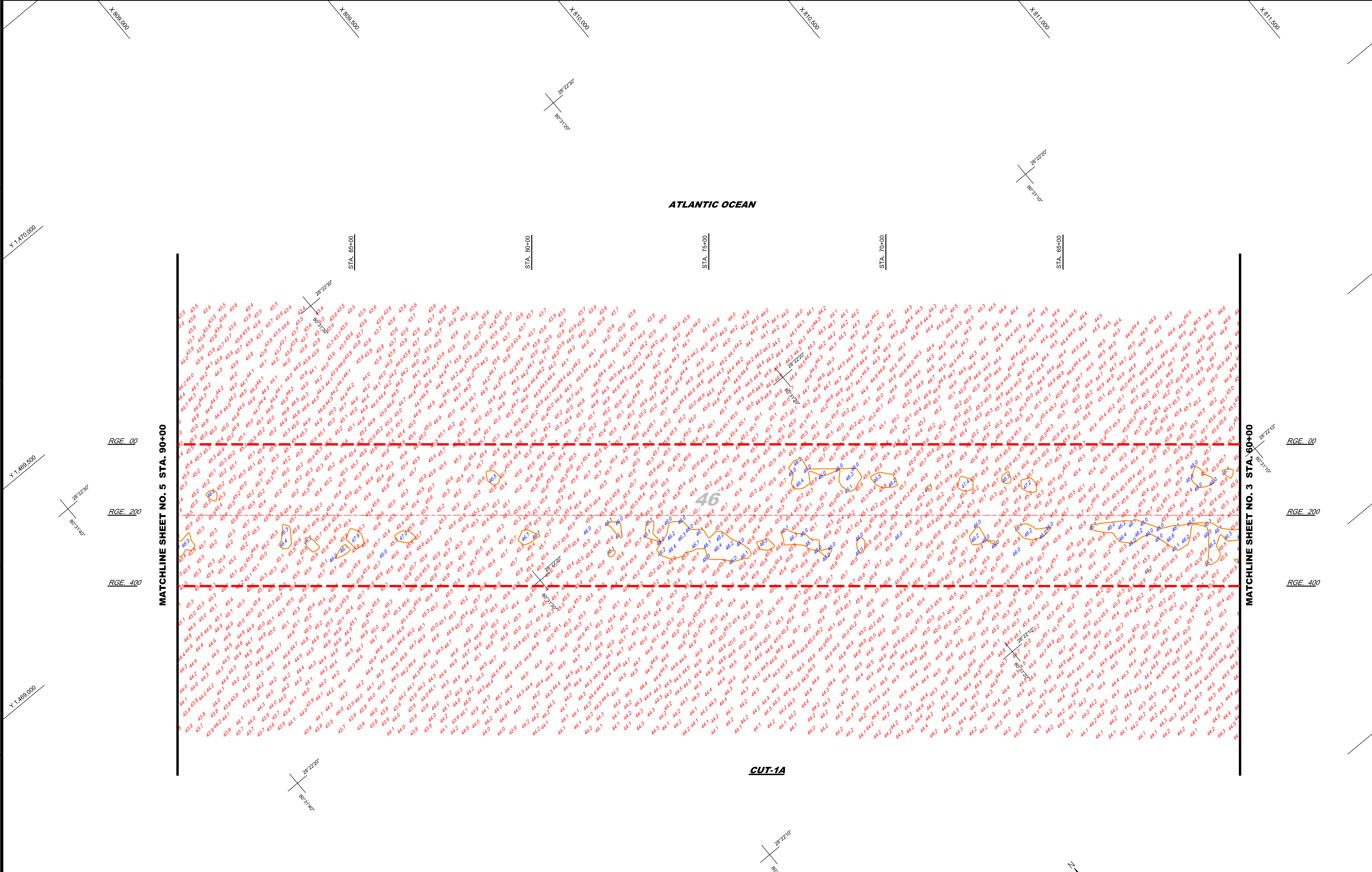
4Q HYDROGRAPHIC EXAM SURVEY FY19

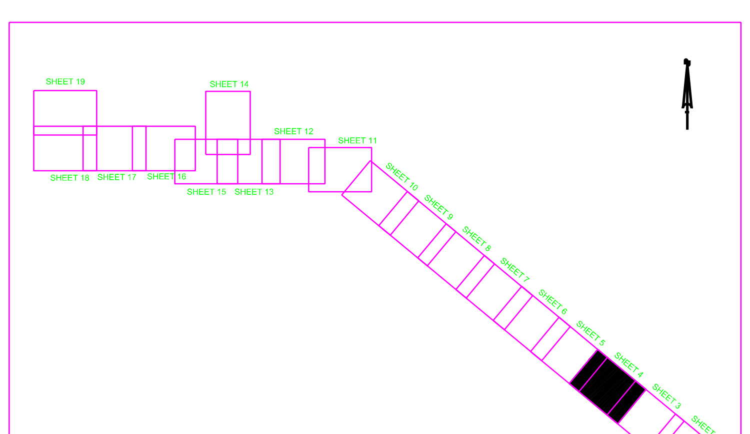
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 30+00 THRU 60+00 CUT - 1A
PLAN

Scale: AS SHOWN

Drawing no.

3 / 18





SHEET INDEX

GRAPHIC SCALE

NOTES:

1. REFER TO SURVEY NO. 19-253.
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

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

Designed by: WRM
Ckd by: GMR
DWN by: WRM
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C1A_HF.DGN
19-253-V-CON46.DGN

File name: 19-253-VH-004.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

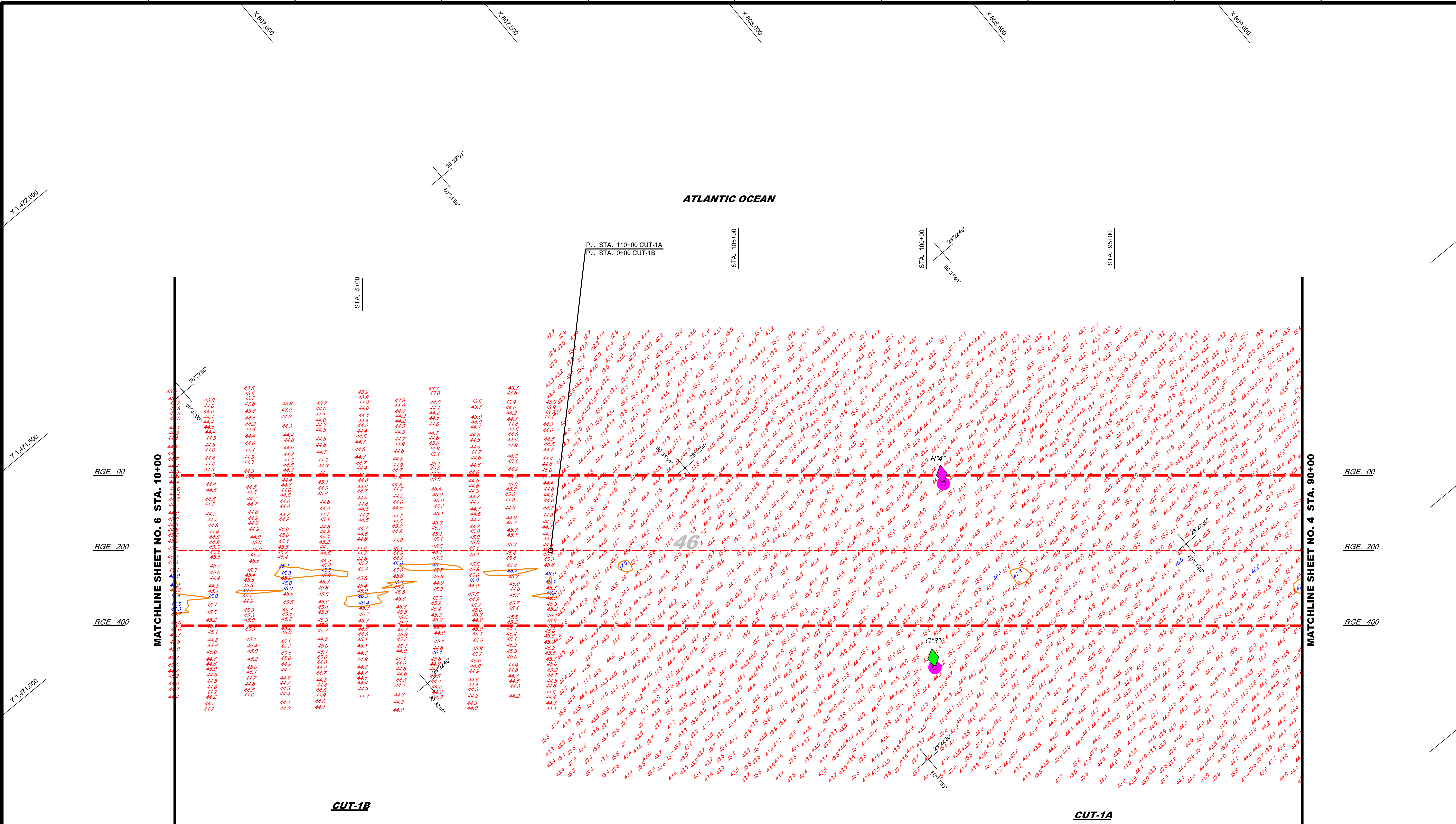
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 60+00 THRU 90+00 CUT - 1A
PLAN

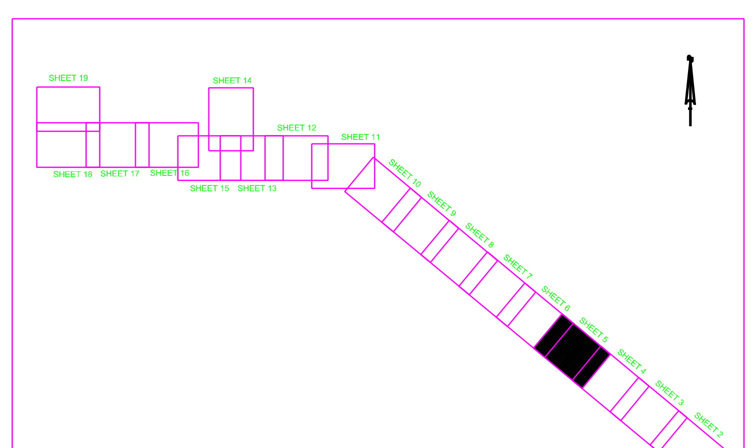
Scale: AS SHOWN

Drawing no.

4 / 18

SHEET 4 OF 19





SHEET INDEX

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"3"	LT. BUOY-3 (09/19)	807,294	1,469,514	28°22'31.75"	80°31'48.09"
R"4"	LT. BUOY-4 (09/19)	807,624	1,479,876	28°22'35.32"	80°31'44.38"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-253.
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

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

Designed by: WRM
Drawn by: WRM
Ckd by: GMR
Date: SEP 2019

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

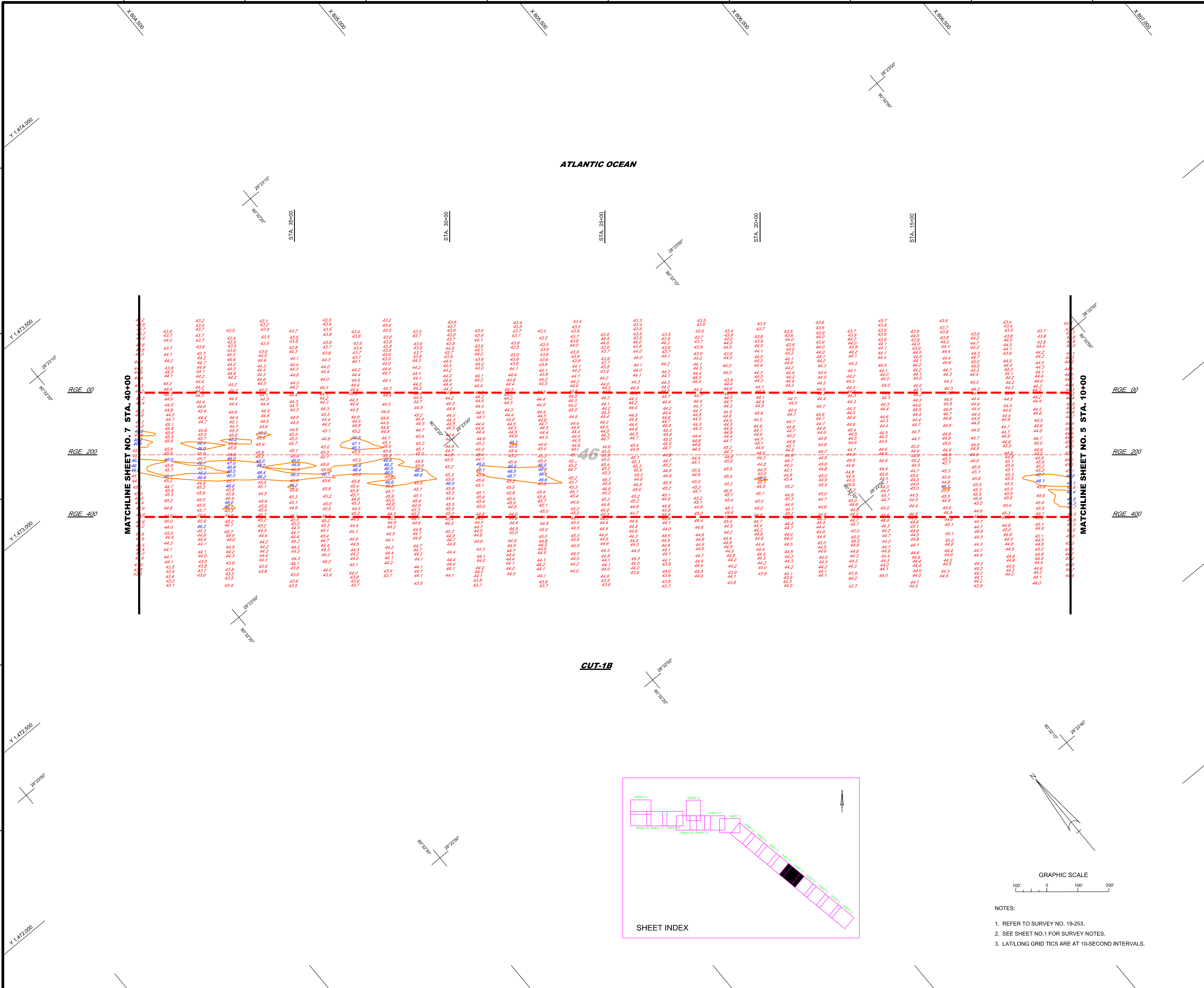
4Q HYDROGRAPHIC EXAM SURVEY FY19

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



NOTES:

1. REFER TO SURVEY NO. 19-253.
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

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C1B_LF.DGN
19-253-V-CON46.DGN

File name: 19-253-VH-006.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

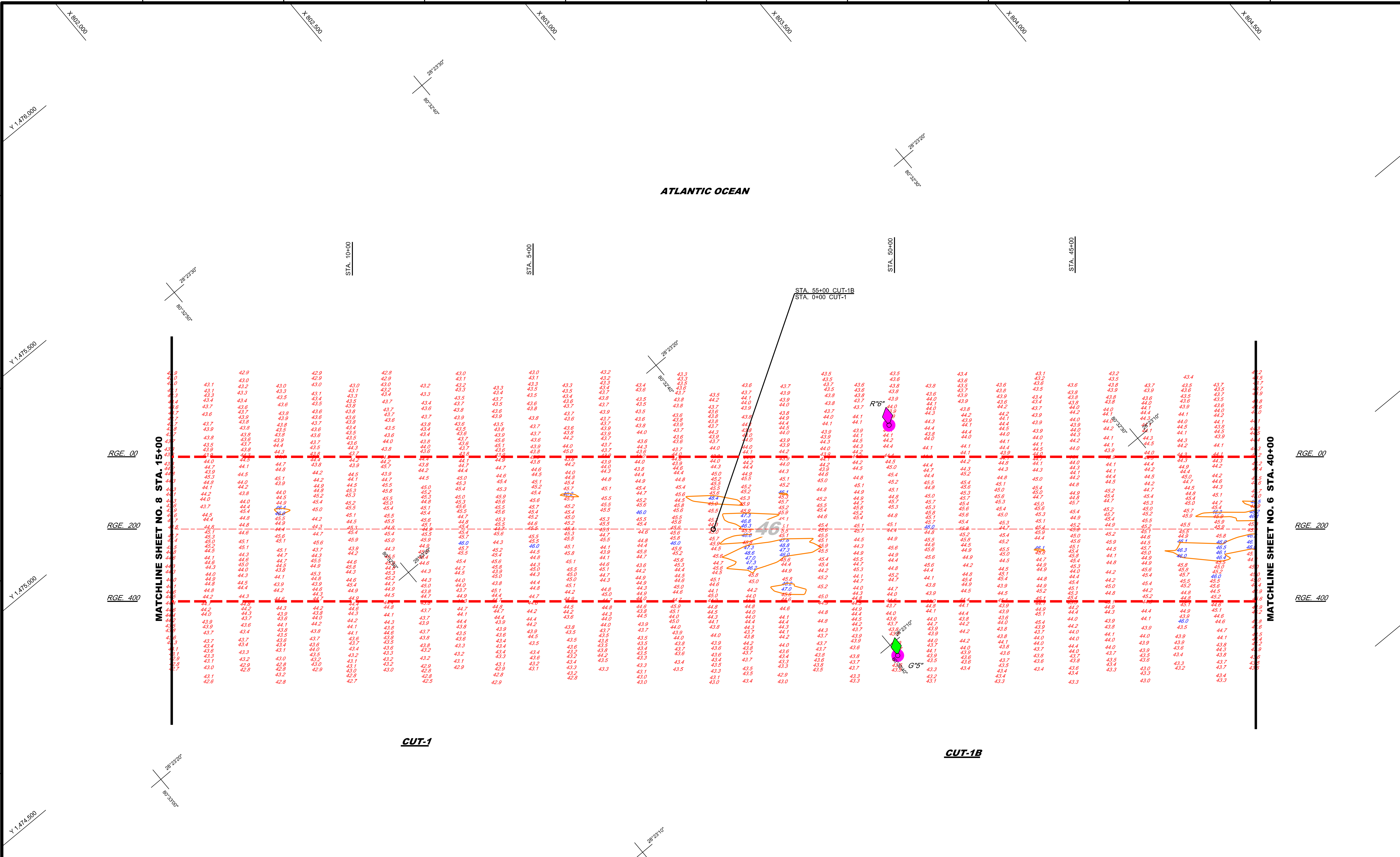
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 10+00 THRU STA. 40+00 CUT - 1B
PLAN

Scale: AS SHOWN

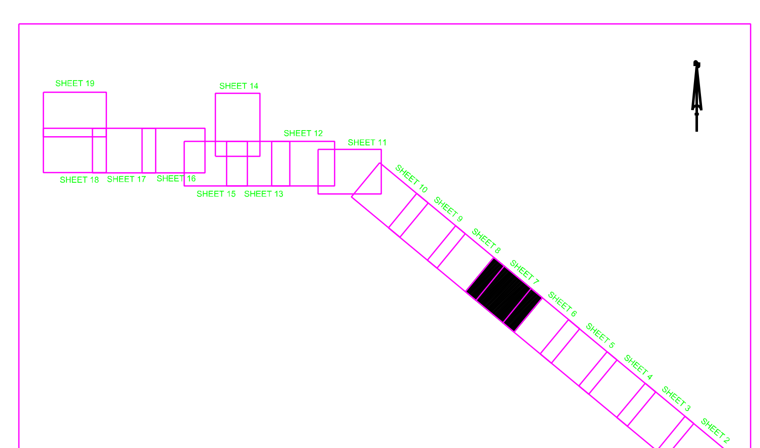
Drawing no.

6 / 18

SHEET 6 OF 19



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"5"	LT. BUOY-5 (09/19)	802,641	1,473,324	28°23'09.65"	80°32'40.01"
R"6"	LT. BUOY-6 (09/19)	803,030	1,473,830	28°23'14.65"	80°32'35.64"



SHEET INDEX

NOTES:

1. REFER TO SURVEY NO. 19-253.
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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C1_LF.DGN
19-253-V-SOUN_C1B_LF.DGN
19-253-V-NAV.DGN
19-253-V-CON46.DGN

File name: 19-253-VH-007.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

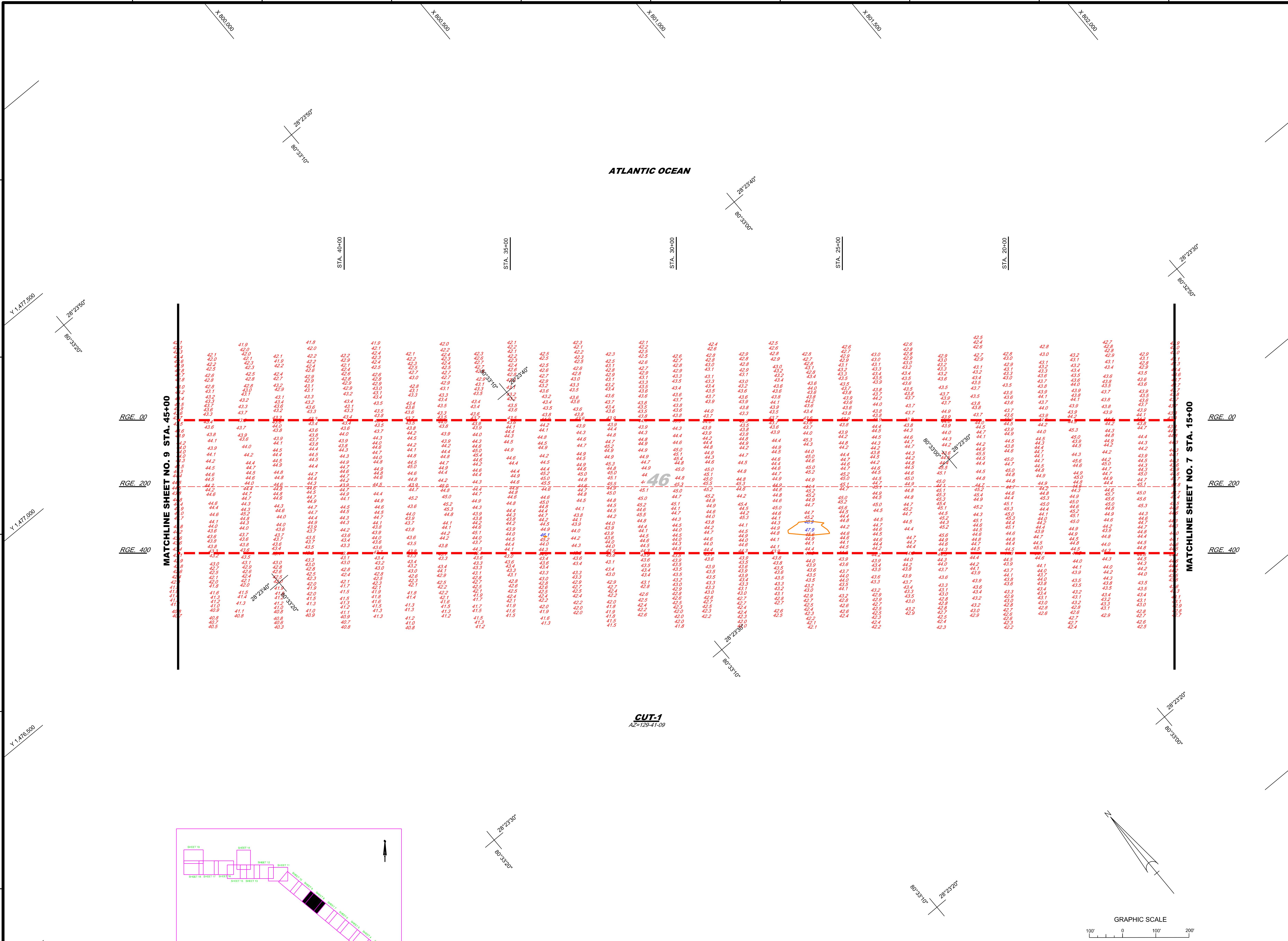
4Q HYDROGRAPHIC EXAM SURVEY FY19

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



NOTES:

1. REFER TO SURVEY NO. 19-253.
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

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

Designed by: WRM
Drawn by: WRM
Ckd by: GMR
Date: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C1_LF.DGN
19-253-V-CON46.DGN

File name: 19-253-VH-008.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

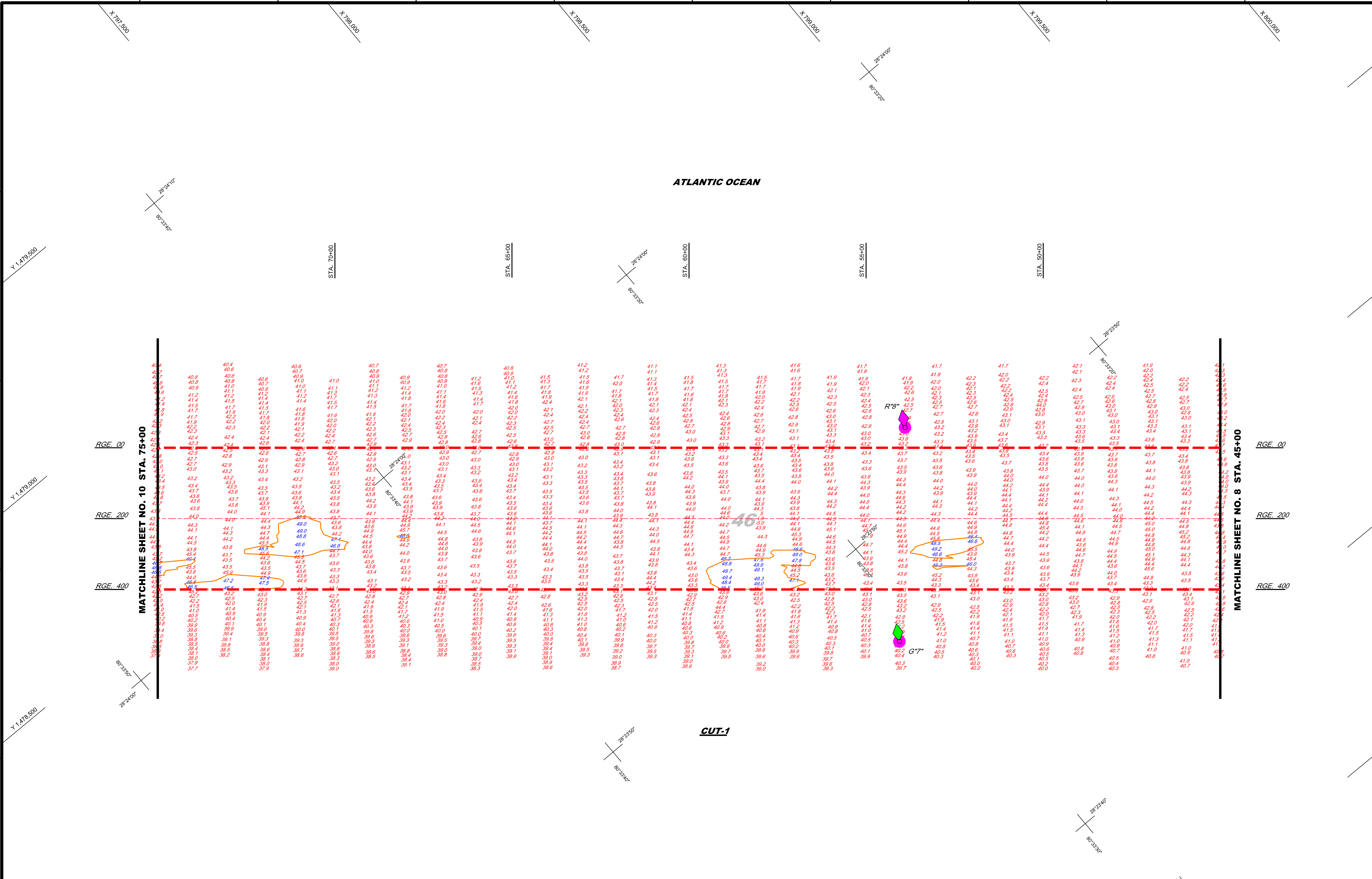
4Q HYDROGRAPHIC EXAM SURVEY FY19

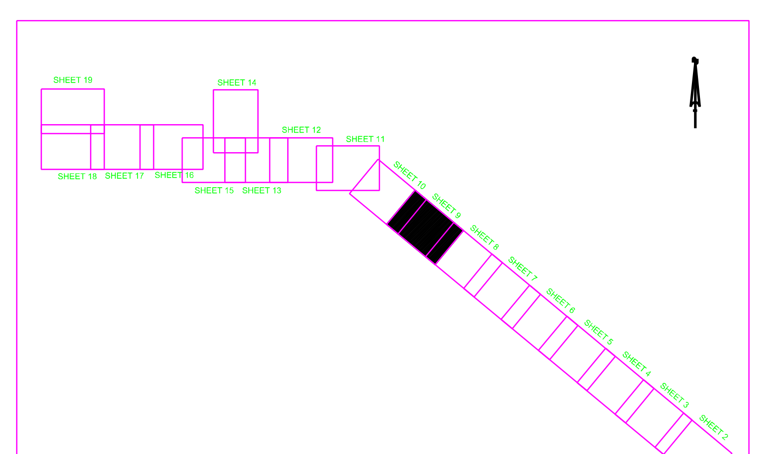
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 15+00 THRU STA. 45+00 CUT - 1
PLAN

Scale: AS SHOWN

Drawing no.

8 / 18




SHEET INDEX

MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"7"	LT. BUOY-7 (09/19)	798,091	1,477,104	28°23'47.24"	80°33'30.80"
R"8"	LT. BUOY-8 (09/19)	798,489	1,477,558	28°23'51.73"	80°33'26.32"

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-253.
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

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

Designed by: WRM
Dwn by: WRM
Ckd by: GMR
Date: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTYCS.DGN
19-253-V-SOUN_C1_LF.DGN
19-253-V-NAV.DGN
19-253-V-CON46.DGN

File name: 19-253-VH-009.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

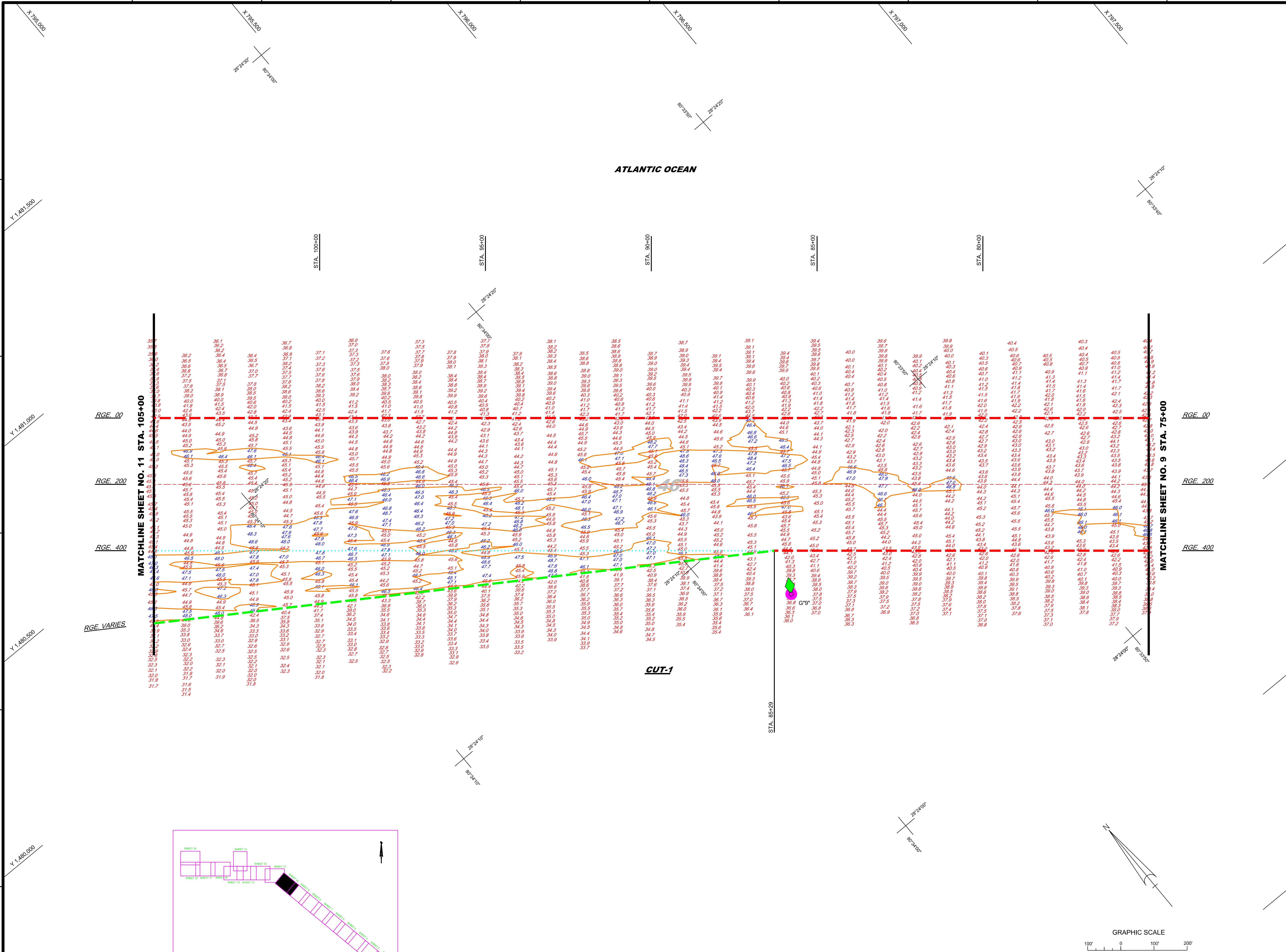
35, 39, 41, 43, 44 AND 46-FOOT PROJECT

PLAN

Scale: AS SHOWN

Drawing no.

9 / 18



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"9"	LT. BUOY-9 (09/19)	795,661	1,479,142	28°24'07.51"	80°33'57.93"

NOTES:

1. REFER TO SURVEY NO. 19-253.
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

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

Designed by: WRM
Drawn by: WRM
Ckd by: GMR
Date: SEP 2019

Reference files: 19-253-G-RS-BRDR.DGN, CANAVERAL HARBOR-C-NGMCCF.DGN, CHLLTCS.DGN, 19-253-V-SOUN_C1_LF.DGN, 19-253-V-CON46.DGN, 19-253-V-NAV.DGN
File name: 19-253-VH-010.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

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 (09/19)	792,941	1,482,093	28°24'36.83"	80°34'28.27"
G"11"	LT. BUOY-11 (09/19)	793,627	1,480,475	28°24'20.78"	80°34'20.66"

NOTES:

1. REFER TO SURVEY NO. 19-253.
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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C1_LF.DGN
19-253-V-SOUN_C2_LF.DGN
19-253-V-CON46.DGN
19-253-V-NAV.DGN

File name: 19-253-VH-011.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

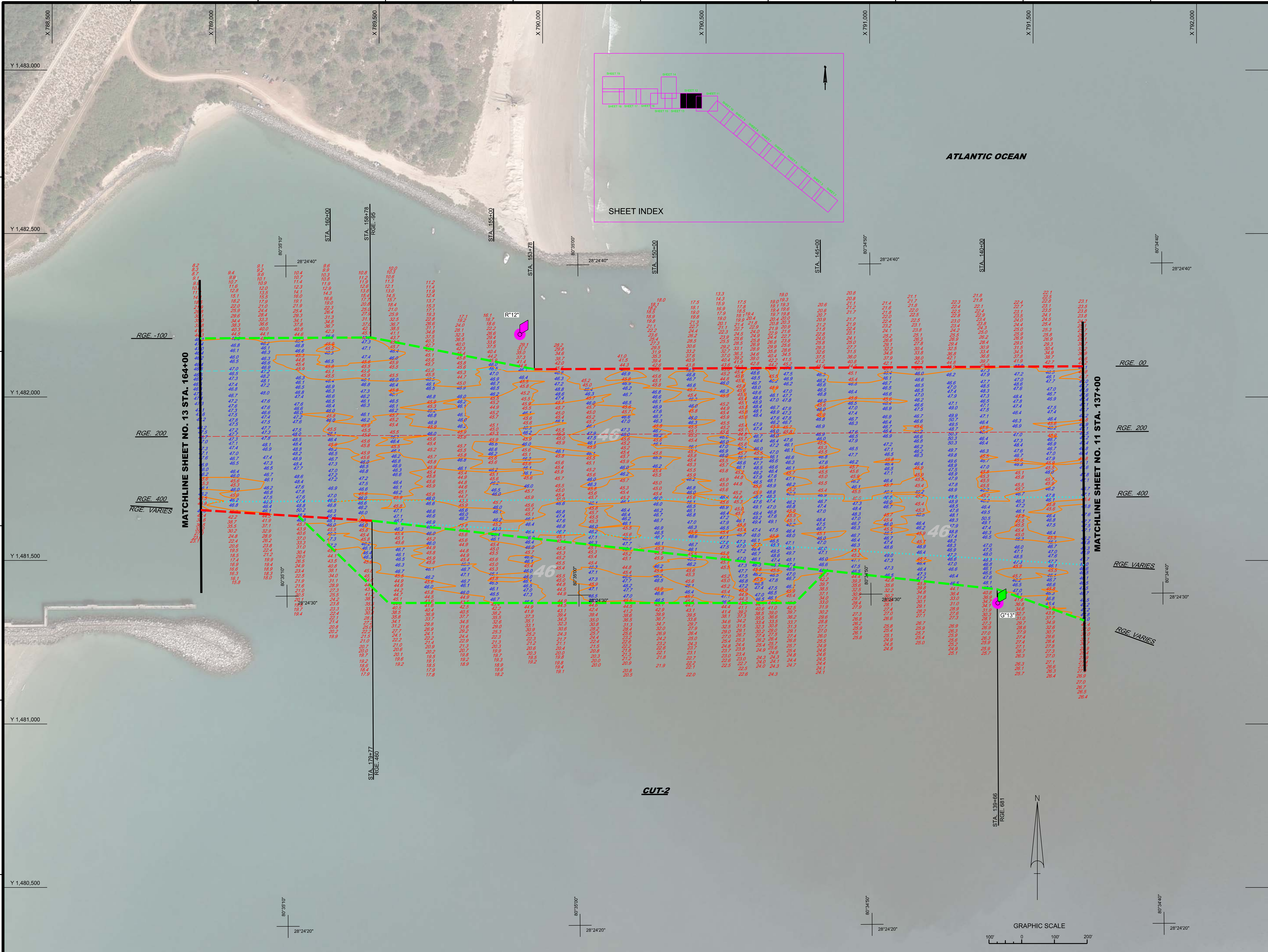
4Q HYDROGRAPHIC EXAM SURVEY FY19

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



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
R"12"	LT. BUOY-12 (09/19)	789,930	1,482,192	28°24'37.91"	80°35'01.98"
G"13"	LT. BUOY-13 (09/19)	791,392	1,481,370	28°24'29.72"	80°34'45.64"

NOTES:

1. REFER TO SURVEY NO. 19-253.
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

Symbol	Zone	Description
No.	A-N	ABCD

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

Designed by: WRM
Ckd by: GMR
DWN by: WRM
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C2_LF.DGN
19-253-V-CON46.DGN
19-253-V-NAV.DGN

File name: 19-253-VH-012.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

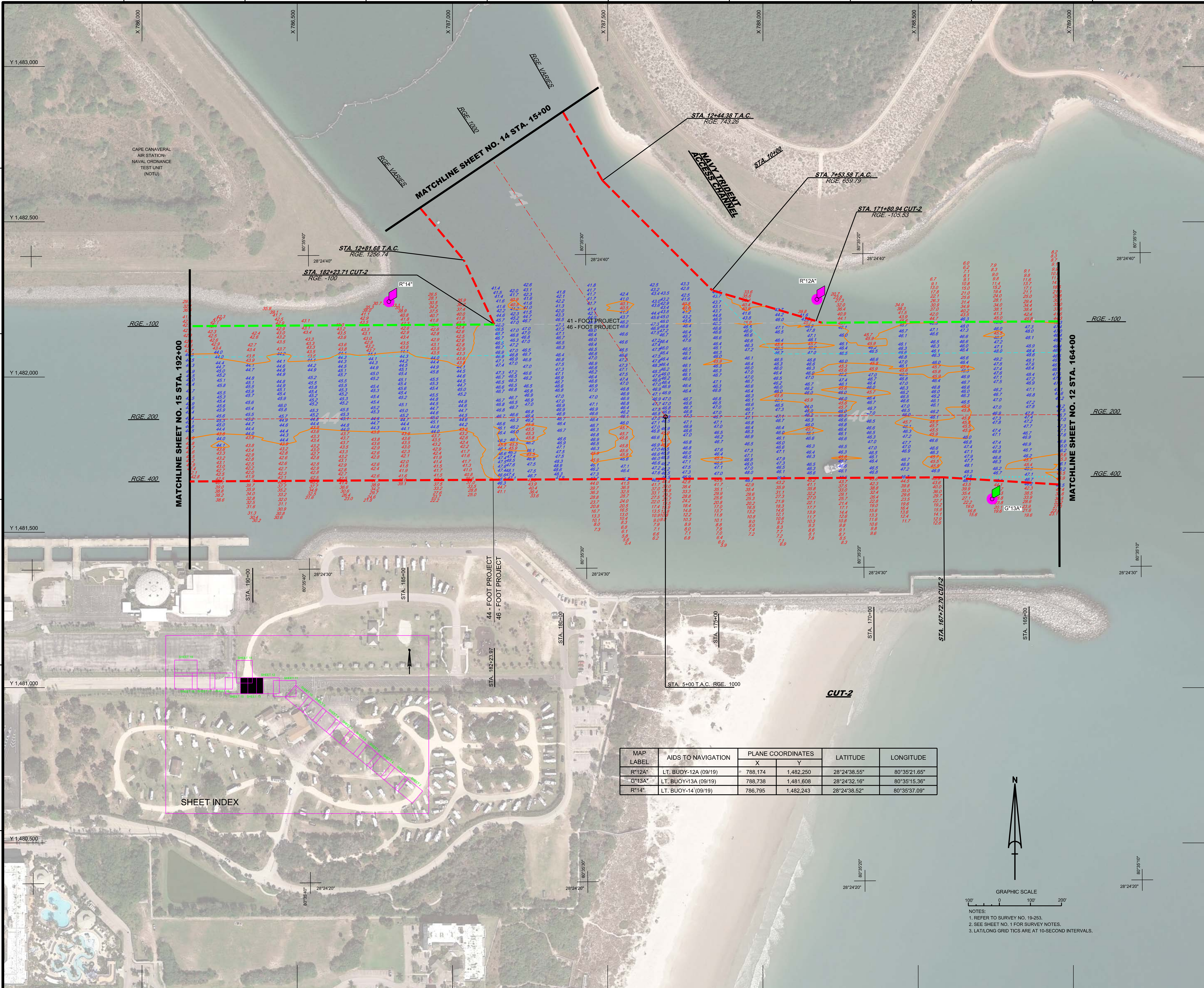
4Q HYDROGRAPHIC EXAM SURVEY FY19

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



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
R"12A"	LT. BUOY-12A (09/19)	788,174	1,482,250	28°24'38.55"	80°35'21.65"
G"13A"	LT. BUOY-13A (09/19)	788,738	1,481,608	28°24'32.16"	80°35'15.36"
R"14"	LT. BUOY-14 (09/19)	786,795	1,482,243	28°24'38.52"	80°35'37.09"

NOTES:
1. REFER TO SURVEY NO. 19-253.
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

Designed by: WRM
Ckd by: GMR
DWN by: WRM
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-253-V-SOUN_C2_LF.DGN
19-253-V-CON41.DGN
19-253-V-CON44.DGN
19-253-V-CON46.DGN
19-253-V-NAV.DGN

File name: 19-253-VH-013.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

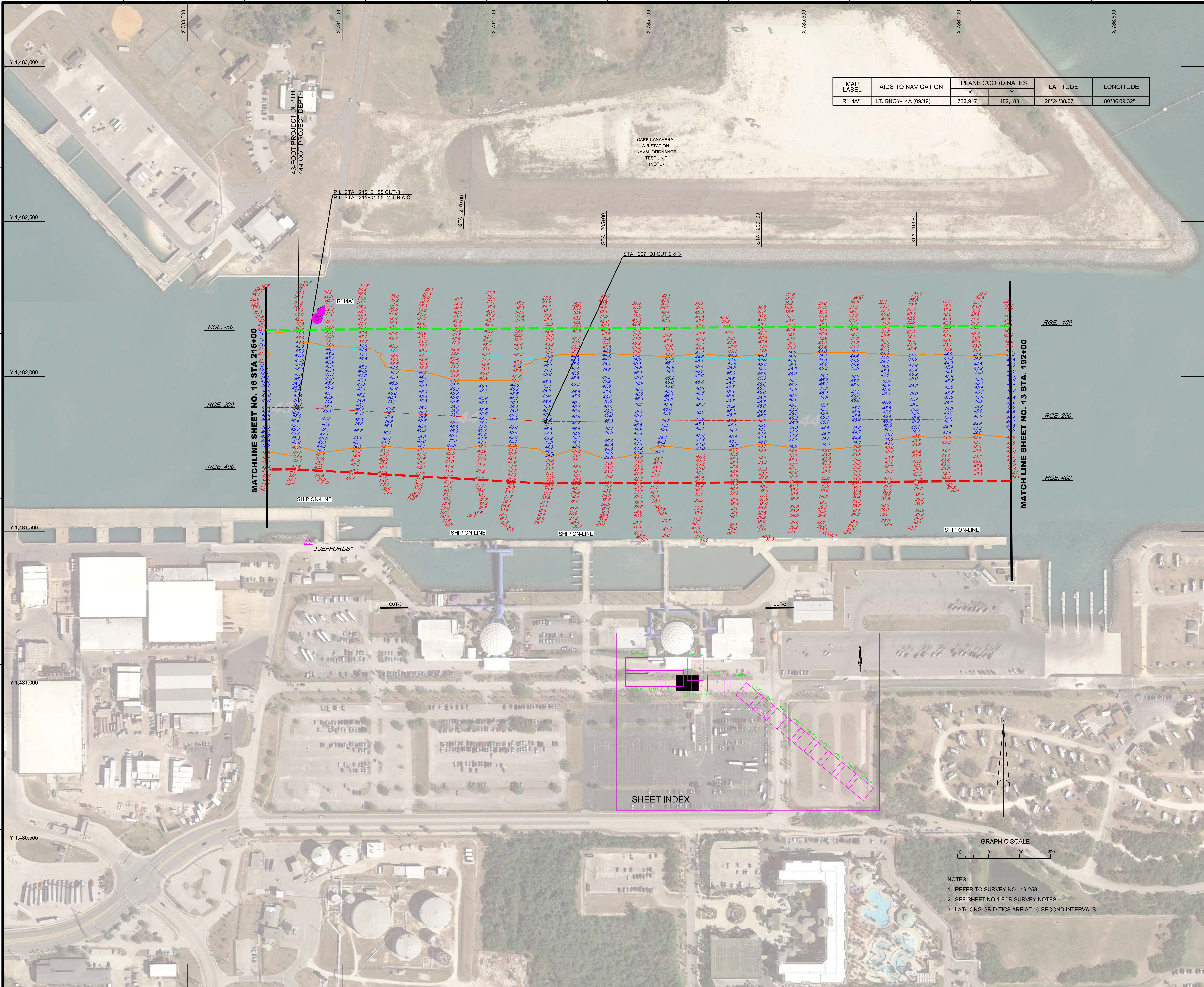
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 164+00 THRU STA. 192+00 CUT - 2
PLAN

Scale: AS SHOWN

Drawing no.

13 / 18

SHEET 13 OF 19



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES X	PLANE COORDINATES Y	LATITUDE	LONGITUDE
R"14A"	LT. BUOY-14A (09/19)	783,917	1,482,188	28°24'38.07"	80°36'09.32"

NOTES:

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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

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
19-253-V-SOUN_C2_LF.DGN
19-253-V-SOUN_C3_LF.DGN
19-253-V-SOUN_MTB_LF.DGN
19-253-V-CON43.DGN
19-253-V-CON44.DGN
19-253-V-NAV.DGN

File name: 19-253-VH-015.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

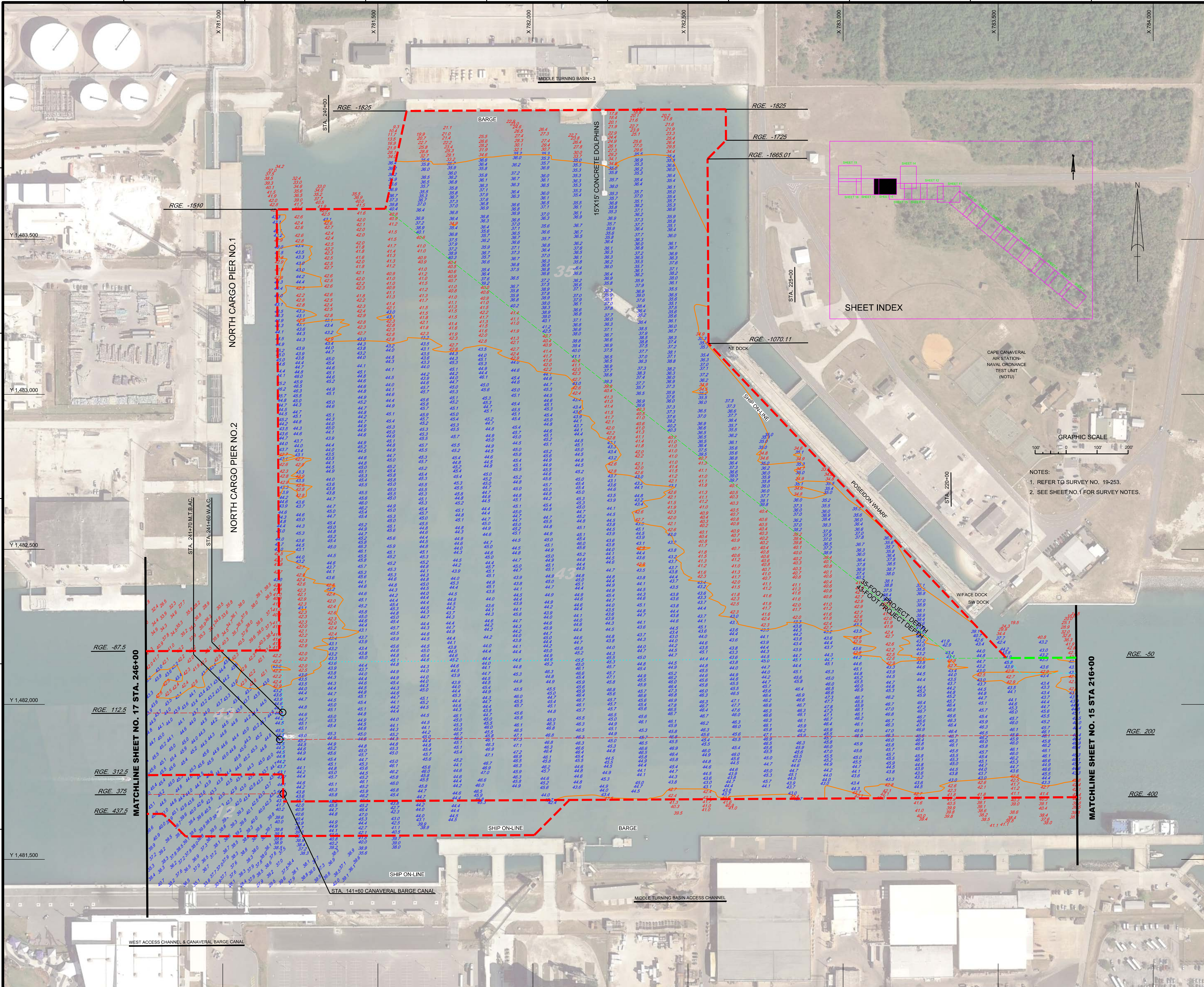
4Q HYDROGRAPHIC EXAM SURVEY FY19

35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 192+00 CUT - 2 THRU STA. 216+00 M.T.B.
PLAN

Scale: AS SHOWN

Drawing no.

14 / 18



NOTES:

1. REFER TO SURVEY NO. 19-253.
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
Drawn by: WRM
Ckd by: GMR
Dated: SEP 2019

19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-CAGMCCF.DGN
19-253-V-SOUN_MTB_LF.DGN
19-253-V-SOUN_TAC-WTB-CBC.DGN
19-253-V-CON35.DGN
19-253-V-CON43.DGN

19-253-VH-016.DGN

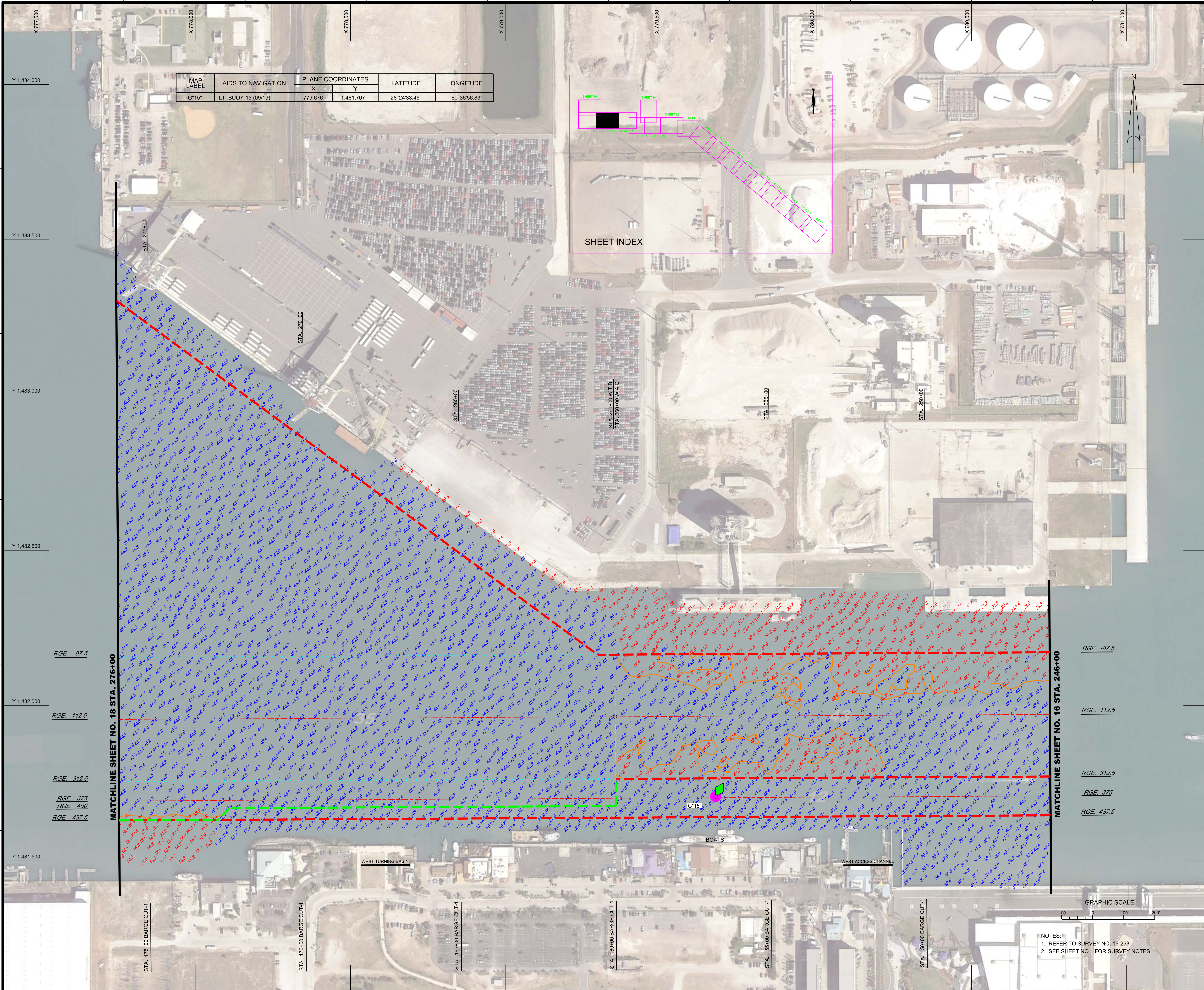
CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
4Q HYDROGRAPHIC EXAM SURVEY FY19
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 216+00 M.T.B.A.C. THRU STA. 246+00 W.A.C.
PLAN

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 (09/19)	779,676	1,481,707	28°24'33.45"	80°36'56.83"



NOTES:
1. REFER TO SURVEY NO. 19-253.
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. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
19-253-V-SOUN_WAC-WTB-CBC.DGN
19-253-V-CON35.DGN
19-253-V-CON43.DGN
19-253-V-NAV.DGN

File name: 19-253-VH-017.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

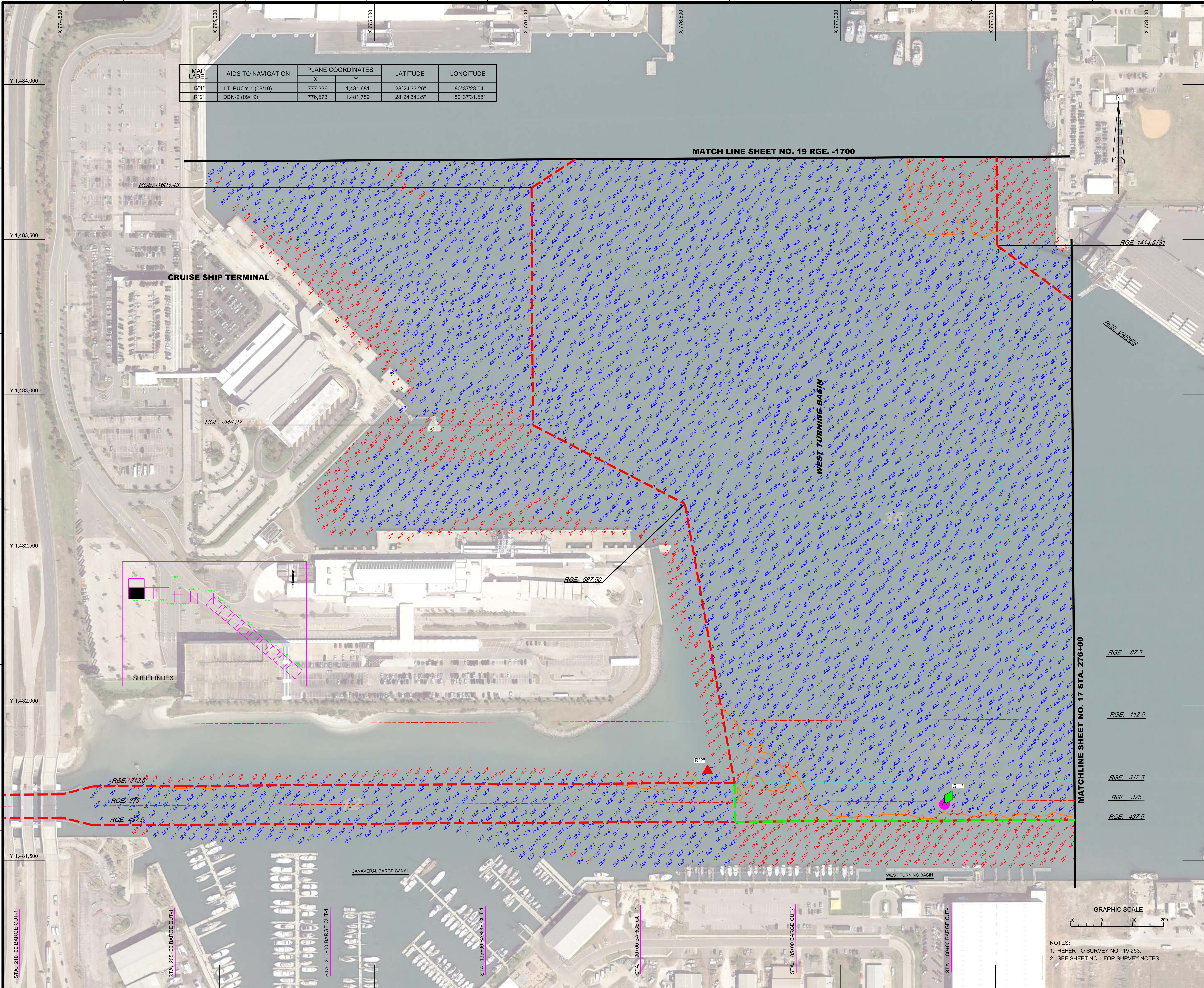
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 246+00 W.A.C. THRU STA. 276+00 W.T.B.
PLAN

Scale: AS SHOWN

Drawing no.

16 / 18

SHEET 17 OF 19



MAP LABEL	AIDS TO NAVIGATION	PLANE COORDINATES		LATITUDE	LONGITUDE
		X	Y		
G"1"	LT. BUOY-1 (09/19)	777,336	1,481,681	28°24'33.26"	80°37'23.04"
R"2"	DBN-2 (09/19)	776,573	1,481,789	28°24'34.35"	80°37'31.58"

NOTES:
1. REFER TO SURVEY NO. 19-253.
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	A-N	ABCD

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
19-253-V-SOUN_WAC-WTB-CBC.DGN
19-253-V-CON12.DGN
19-253-V-CON35.DGN
19-253-V-NAV.DGN

File name: 19-253-VH-018.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

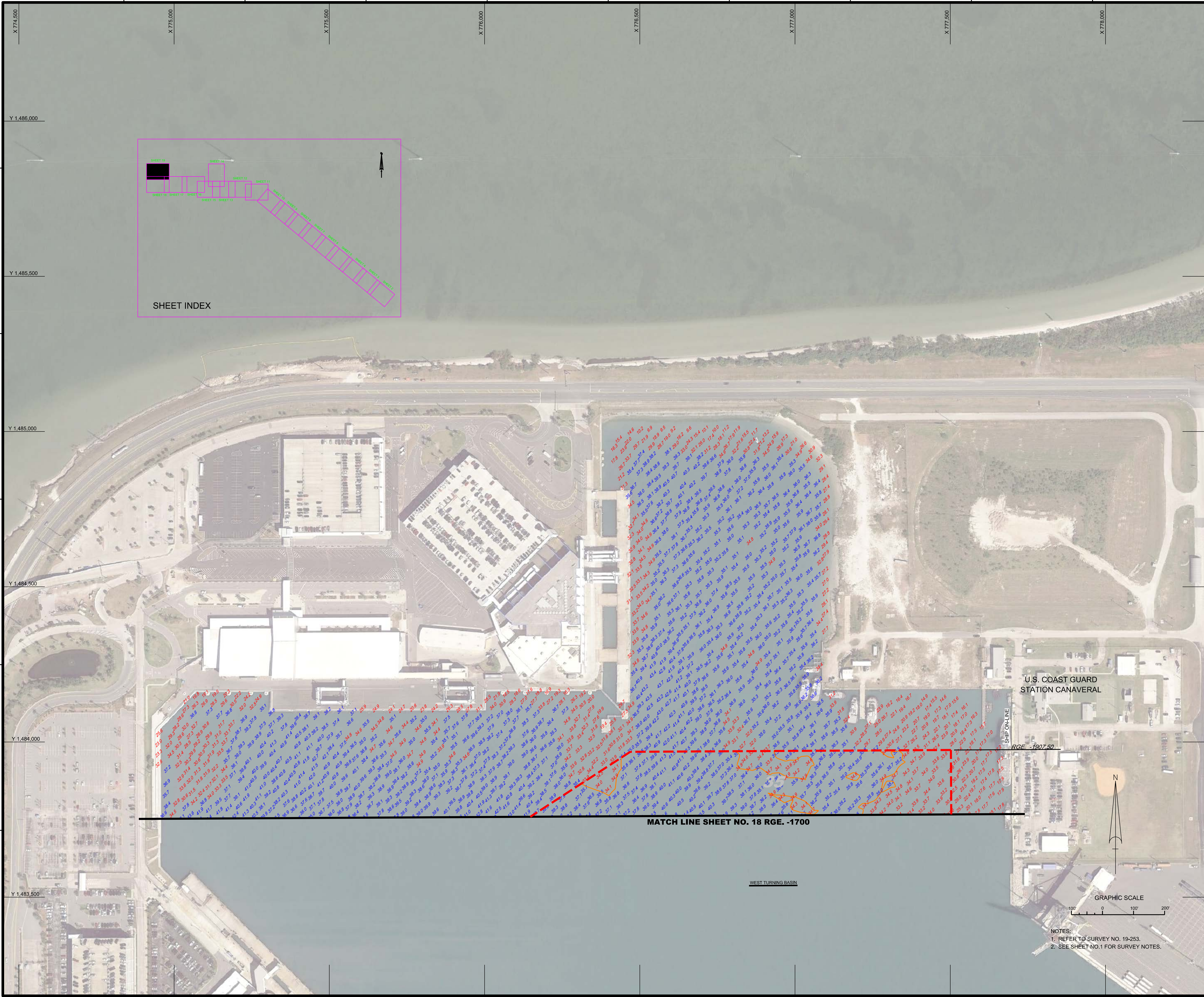
4Q HYDROGRAPHIC EXAM SURVEY FY19

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. 19-253.
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	A-N	ABCD

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

Designed by: WRM
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Dated: SEP 2019

Reference files:
19-253-G-BS-BRDR.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
19-253-V-SOUN_WAC-WTB-CBC.DGN
19-253-V-CON35.DGN

File name: 19-253-VH-019.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

4Q HYDROGRAPHIC EXAM SURVEY FY19

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

Scale: AS SHOWN

Drawing no.

18 / 18

SHEET 19 OF 19