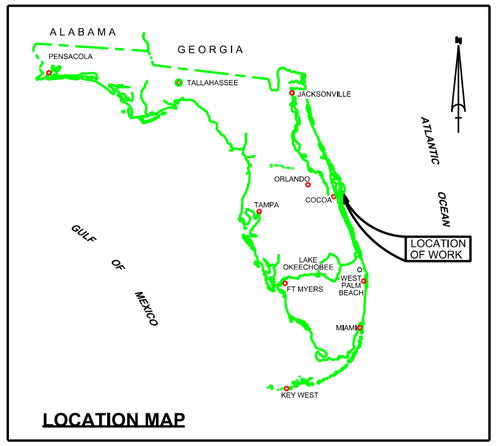
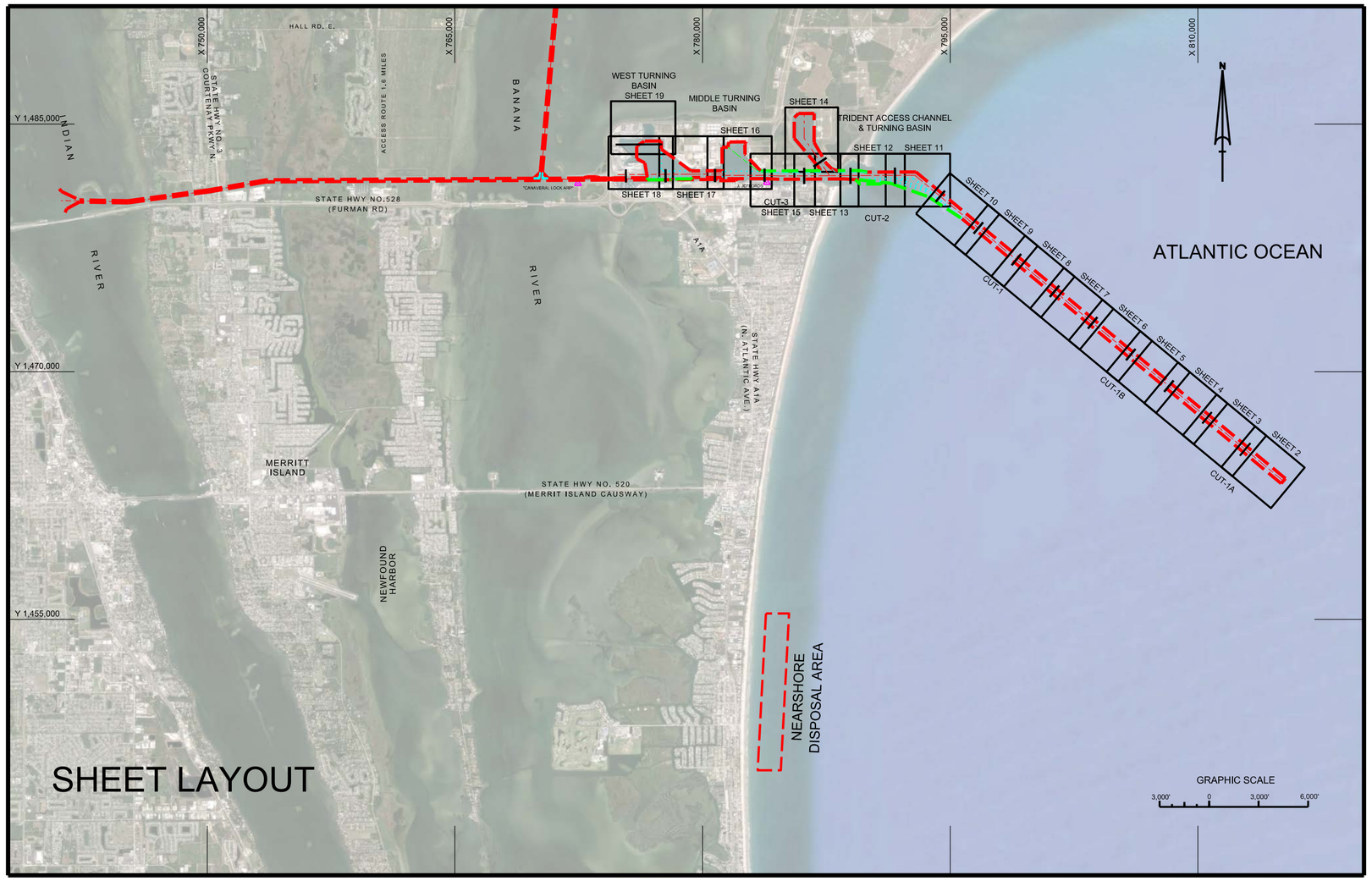
# CANAVERAL HARBOR
# BREVARD COUNTY, FLORIDA
# 1Q HYDROGRAPHIC EXAM SURVEY FY19




**LOCATION MAP**




SURVEY NOTES

1. REFER TO SURVEY NO. 19-068.
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 TRANSDCUER 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-46 | 12-13 FEB 2019 | MTB, WAC, CUT-2 |
| SB-48 | 05-07 MAR 2019 | CUTS 1, 1A, 1B, 2, 3, POSEIDON WHF, NORTH CARGO PIER |

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 |
| PROJECT DEPTH |

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
DWN by: WRM
Rev. No.: - - -
Dated: MAR 2019

19-068-C-JB-SB-01A.DGN
CANFDD-SB-01A.DGN
CANHBR-CAGMCF_POST_CONSTRUCTION.DGN
CHLAYOUT83.DGN

Reference files:
19-068-VH-001.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

**1Q HYDROGRAPHIC EXAM SURVEY FY19**

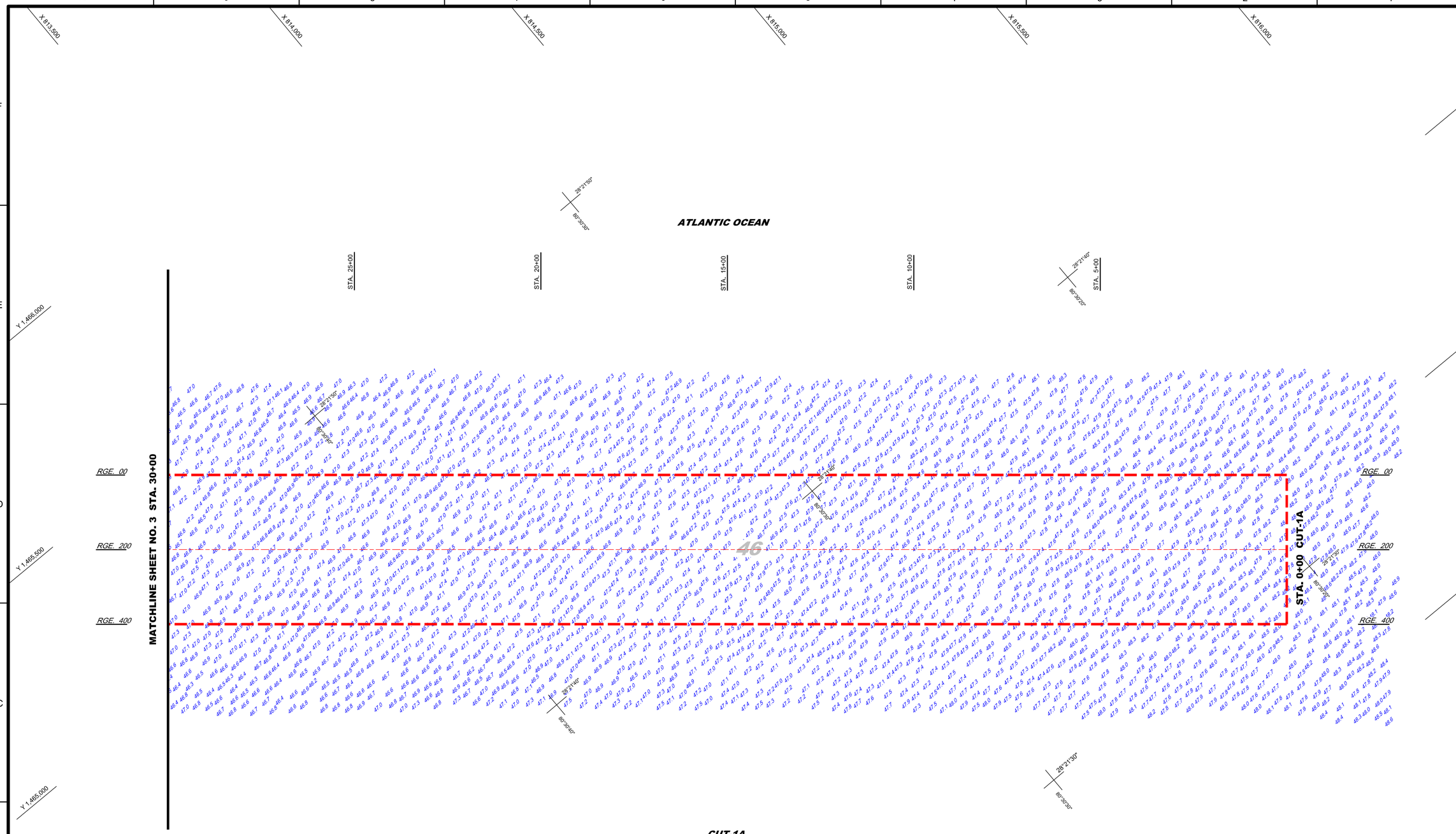
**35, 39, 41, 43, 44 AND 46-FOOT PROJECT INDEX, LOCATION AND VICINTY PLAN**

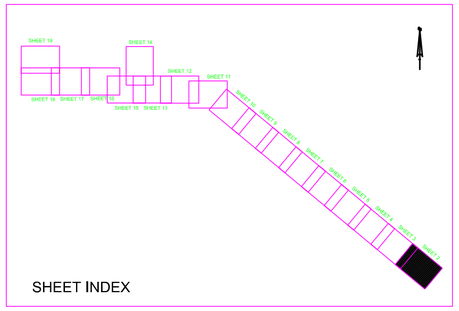
Scale: AS SHOWN

Drawing no.

**1 / 17**

SHEET 1 OF 19




SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-068.
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
Chk by: GMR
Inv. No.: - - -
Date: MAR 2019

Fn:546-C-Ex-PRTR-DGN
CANAVERAL-HARBOR-A-NGMCCF.DGN
CHLTTICS.DGN
19-068-V-SOUN_C1A_HF.DGN

Reference files:
19-068-VH-002.DGN
Fw.xerox

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

**1Q HYDROGRAPHIC EXAM SURVEY FY19**

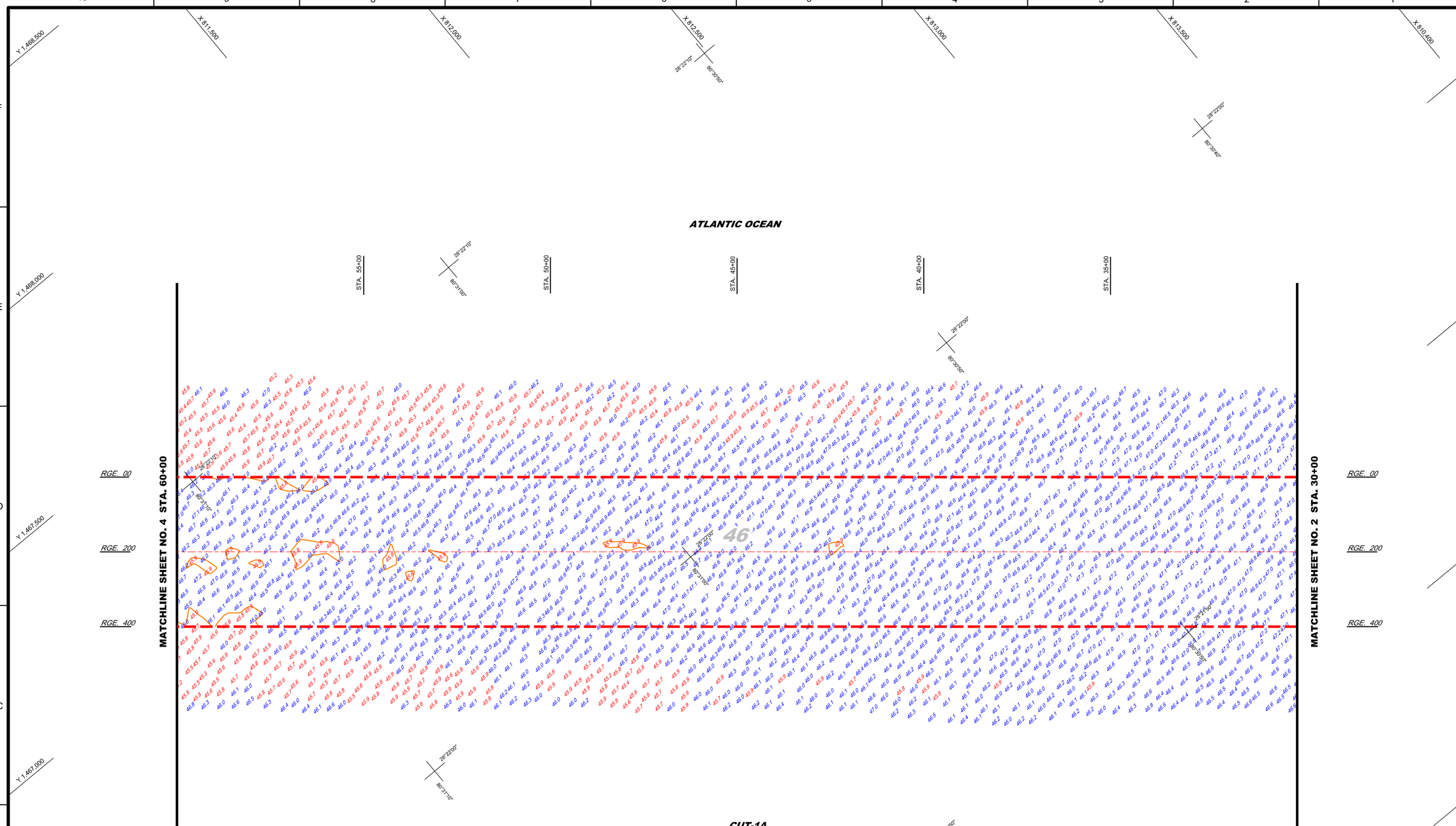
**35, 39, 41, 43, 44 AND 46-FOOT PROJECT**
**STA. 0+00 THRU 30+00 CUT - 1A**
**PLAN**

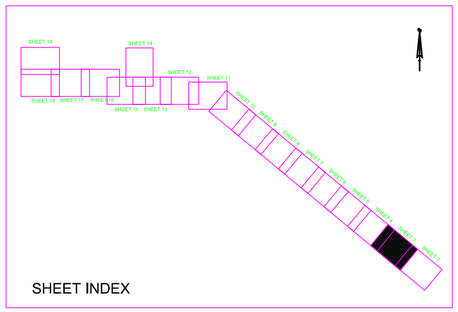
Scale: AS SHOWN

Drawing no.

**2 / 18**

SHEET 2 OF 19




SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-068.
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
Drawn by: VRM
Checked by: GMR
Proj. No.: - - -
Date: MAR 2019

19-068-CAN-HYDRO.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-068-A-SOUN_C1A_HF.DGN
19-068-A-CONE46.DGN

Reference files:
19-068-VH-003.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

**1Q HYDROGRAPHIC EXAM SURVEY FY19**

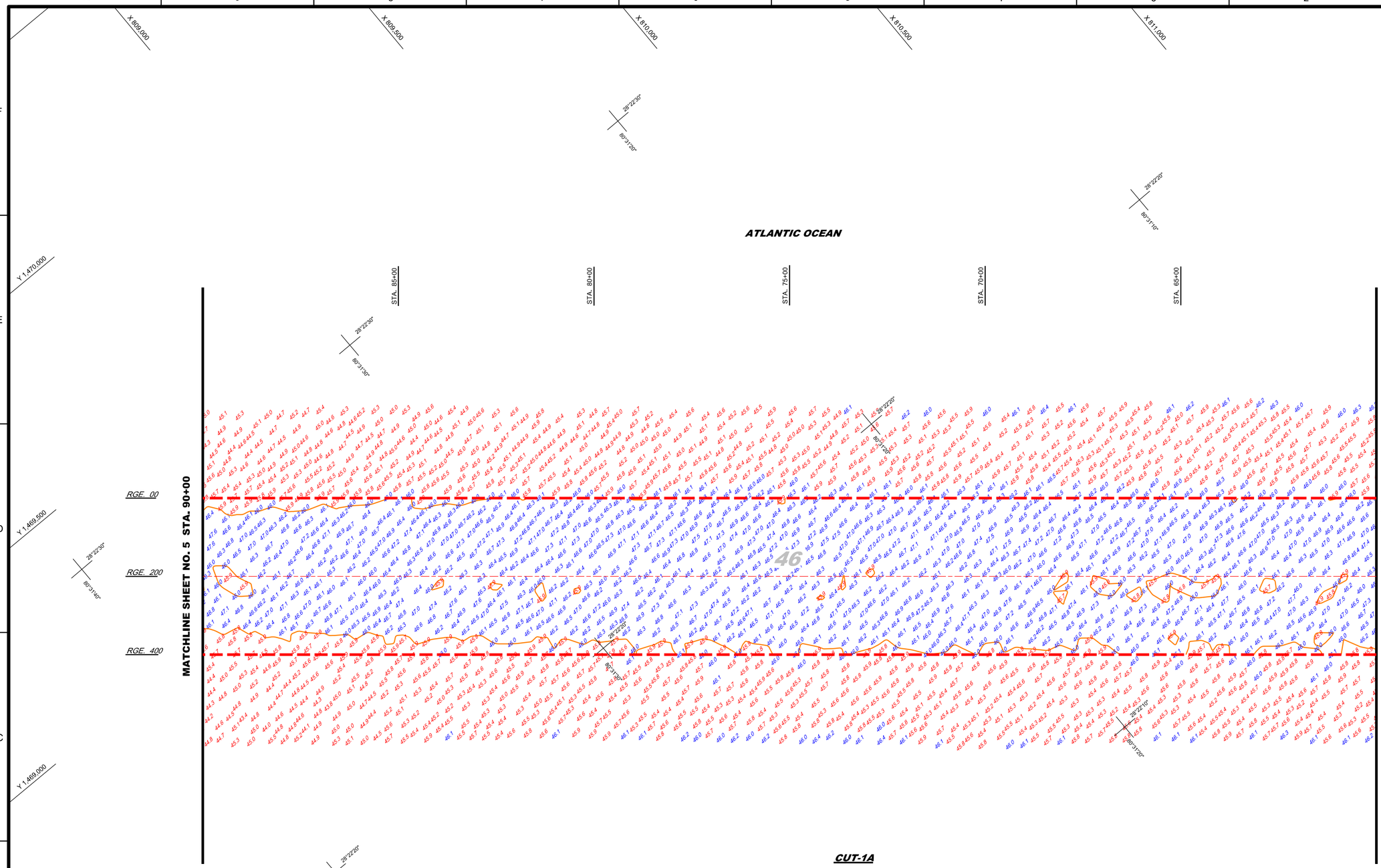
**35, 39, 41, 43, 44 AND 46-FOOT PROJECT**
**STA. 30+00 THRU 60+00 CUT - 1A**
**PLAN**

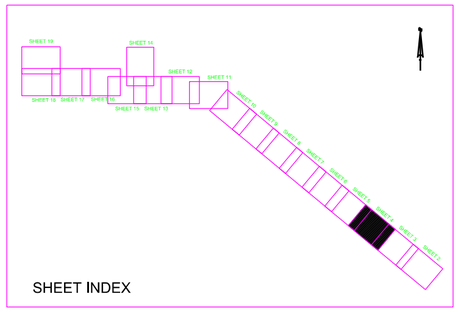
Scale: AS SHOWN

Drawing no.

**3 / 18**

SHEET 3 OF 19




SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-068.
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

Drafted by: WRM
DWN by: WRM
Cat by: GMR
Rev. No.: - - -
Date: MAR 2019

19-068-CAN-BREVARD.DGN
CANAVERAL-HARBOR-CAN-MCCF.DGN
CHLLTICS.DGN
19-068-A-SOUN_C1A_HF.DGN
19-068-A-CONR.DGN

Reference files:

19-068-VH-004.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

**1Q HYDROGRAPHIC EXAM SURVEY FY19**

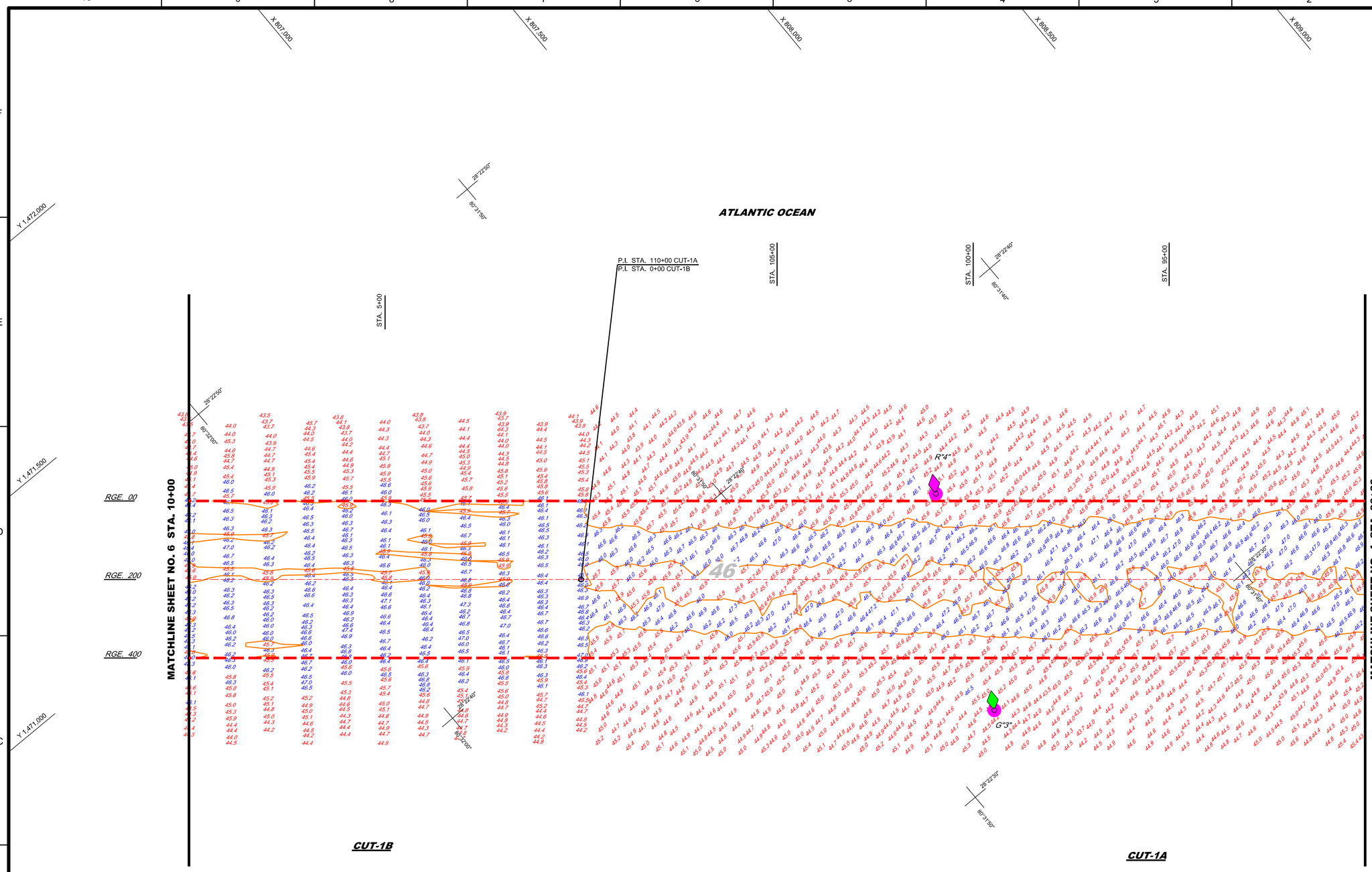
**35, 39, 41, 43, 44 AND 46-FOOT PROJECT**
**STA. 60+00 THRU 90+00 CUT - 1A**
**PLAN**

Scale: AS SHOWN

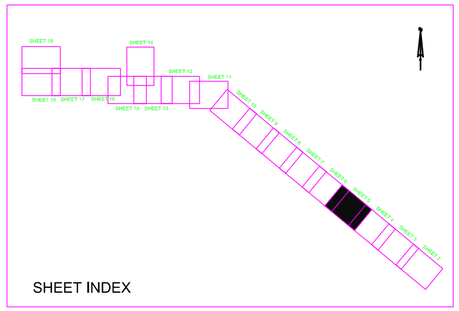
Drawing no.

**4 / 18**

SHEET 4 OF 19




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-3 (03/19) | 807,304 | 1,469,477 | 28°22'31.38" | 80°31'47.97" |
| LT. BUOY-4 (03/19) | 807,542 | 1,469,997 | 28°22'36.52" | 80°31'45.29" |




SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-068.
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. - - -
Date: MAR 2019

19-068_C-3B-SHEETS.DGN
C:\NAVFIELD_HARBOR\CANGMCCF.DGN
CHLLTICS.DGN
19-068-V-SOUL_C1B_LF.DGN
19-068-V-SOUL_C1A_HF.DGN
19-068-V-NAV.DGN
19-068-V-CONHS.DGN

Reference files:
19-068-VH-005.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

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

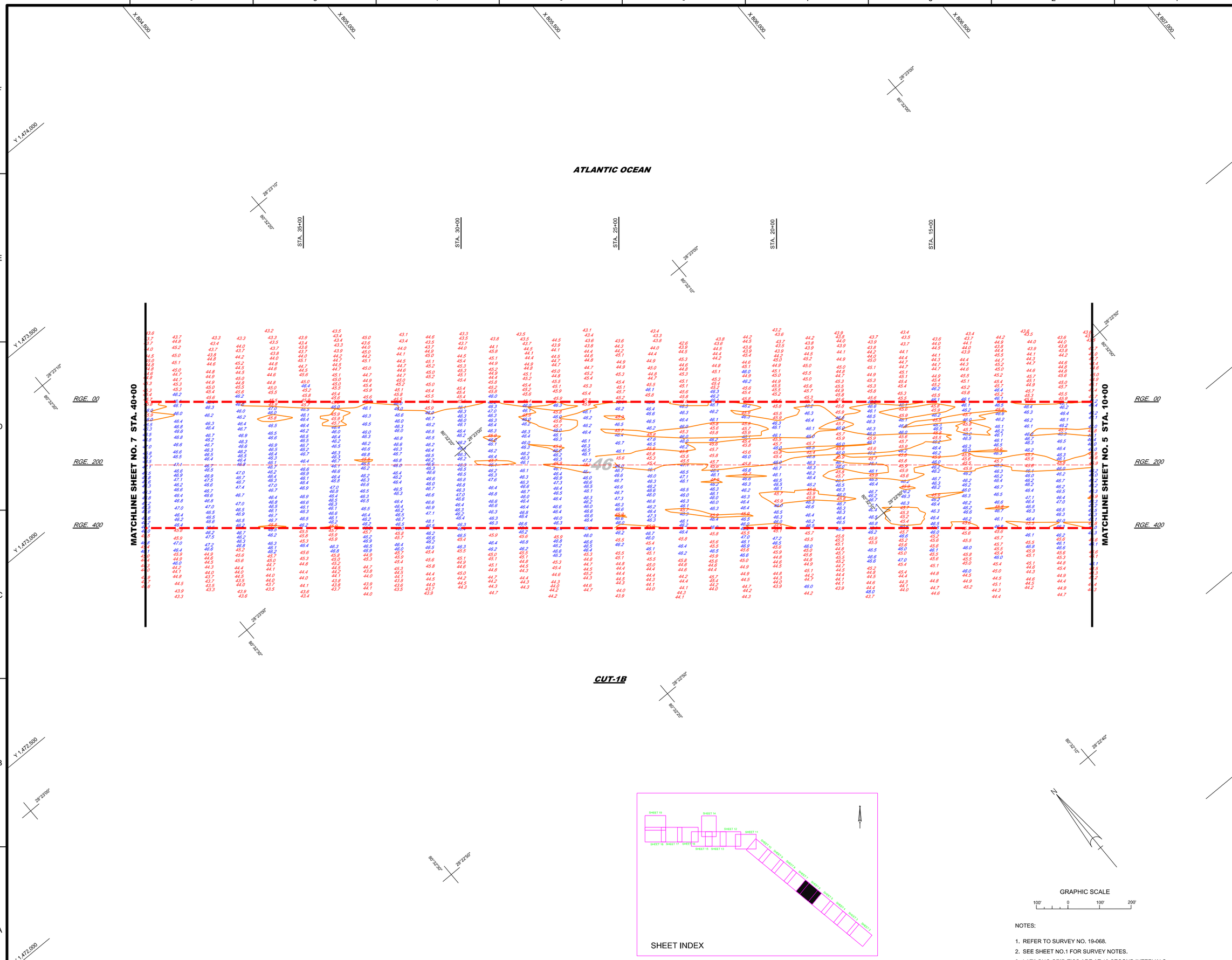
## STA. 90+00 CUT - 1A THRU STA. 10+00 CUT - 1B PLAN

Scale: AS SHOWN

Drawing no.

**5 / 18**

SHEET 5 OF 19




NOTES:

1. REFER TO SURVEY NO. 19-068.
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

Drafted by: WRM
Chk by: GMR
DWN by: WRM
Inv. No. - - -
Dated: MAR 2019

T:\456-C-S-E-BRDS-DGN\
CANAVERAL HARBOR\C-NGM\CCF.DGN
CHLTTICS.DGN
19-068-A-SOUN_C1B_LF.DGN
19-068-A-CON46.DGN

Reference files:

19-068-VH-005.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

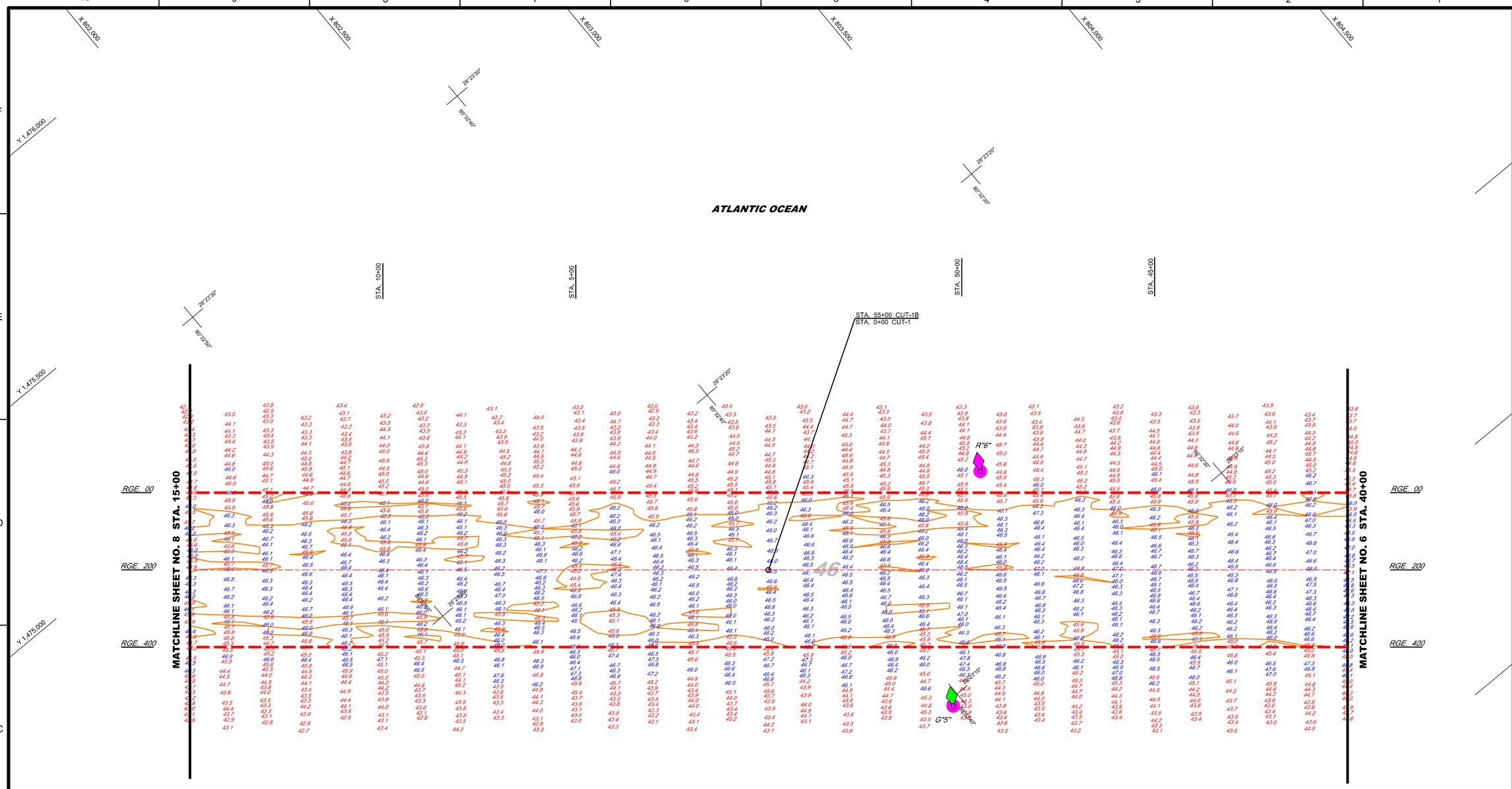
## 35, 39, 41, 43, 44 AND 46-FOOT PROJECT
## STA. 10+00 THRU STA. 40+00 CUT - 1B
## PLAN

Scale: AS SHOWN

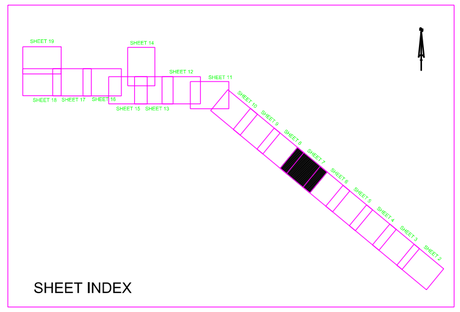
Drawing no.

**6 / 18**

SHEET 6 OF 19




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-5 (03/19) | 802,616 | 1,473,342 | 28°23'09.83" | 80°32'40.30" |
| LT. BUOY-6 (03/19) | 803,058 | 1,473,765 | 28°23'14.00" | 80°32'35.33" |




SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-068.
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
Rev. No. - - -
Dated: MAR 2019

19-068_C-25-REV18.DGN
CANAVERAL-HARBOR-ANGMCCF.DGN
CHILLTICS.DGN
19-068-V-SOUN_C1_LF.DGN
19-068-V-SOUN_C1B_LF.DGN
19-068-V-CONTOUR.DGN
19-068-V-CON46.DGN

Reference files:
19-068-VH-007.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

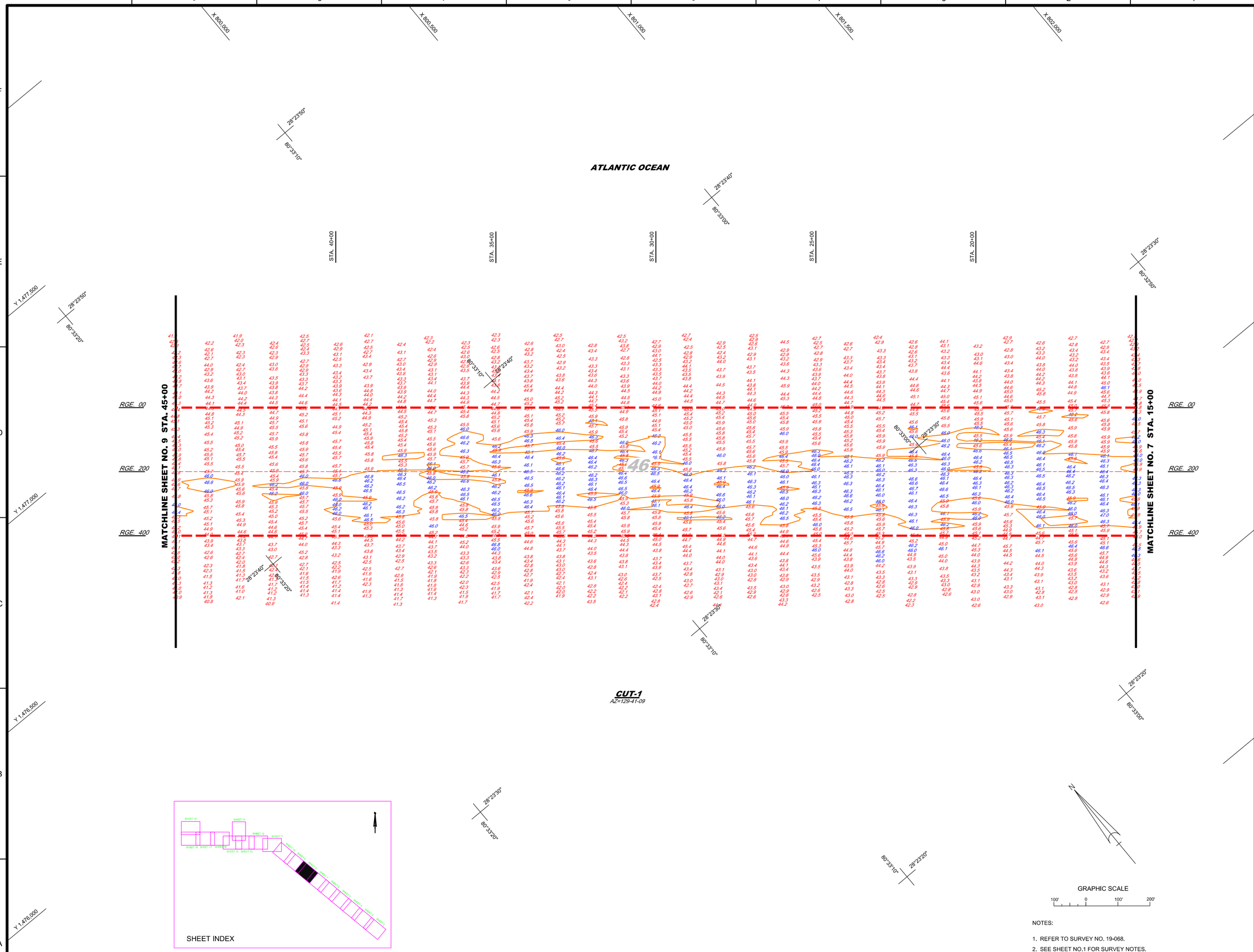
## 35, 39, 41, 43, 44 AND 46-FOOT PROJECT
## STA. 40+00 CUT - 1B THRU STA. 15+00 CUT - 1
## PLAN

Scale: AS SHOWN

Drawing no.

**7 / 18**

SHEET 7 OF 19




NOTES:

1. REFER TO SURVEY NO. 19-068.
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 | ABCD | Description |
|---|---|---|---|---|
| N | | A-N | | |

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

Drafted by: WRM
Cad by: GMR
DWN by: WRM
Inv. No.: - - -
Dated: MAR 2019

19-068-FA-B-SHEET-8.DGN
CANAVERAL HARBOR-C-NGMCCF.DGN
CHILLTICS.DGN
19-068-A-SOUN_C1_LF.DGN
19-068-A-CON46.DGN

Reference files:
19-068-VH-009.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

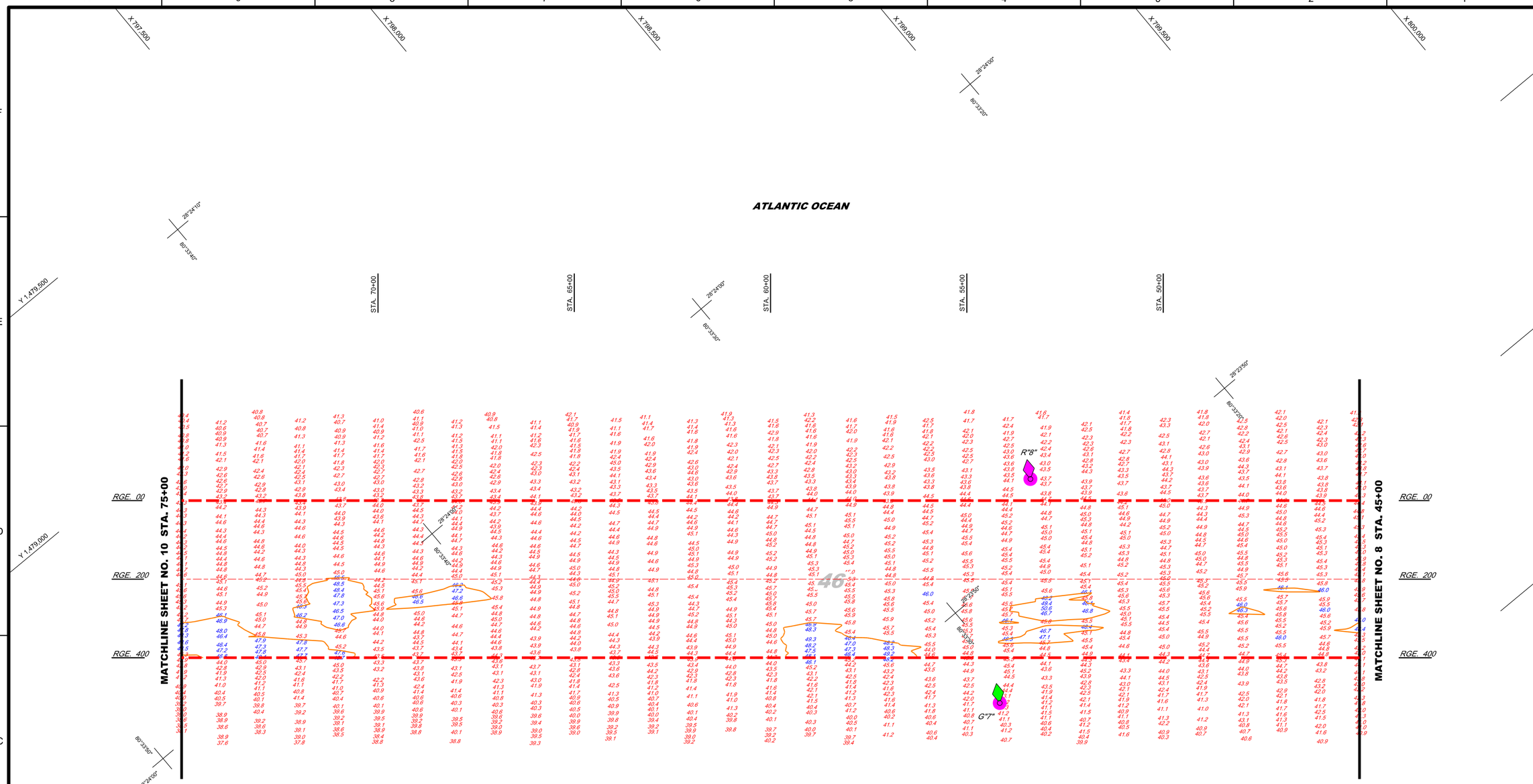
## 35, 39, 41, 43, 44 AND 46-FOOT PROJECT
## STA. 15+00 THRU STA. 45+00 CUT - 1
## PLAN

Scale: AS SHOWN

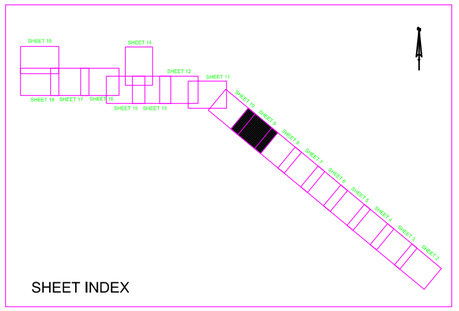
Drawing no.

**8 / 18**

SHEET 8 OF 19




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-7 (03/19) | 798,104 | 1,477,134 | 28°23'47.54" | 80°33'30.66" |
| LT. BUOY-8 (03/19) | 798,528 | 1,477,524 | 28°23'51.38" | 80°33'25.89" |




SHEET INDEX

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-068.
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

Checked by: GMR
Designed by: WRM
DWN by: WRM
Inv. No. - - -
Date: MAR 2019

19-068-C-SC-BRDR.DGN
CANAVERAL HARBOR-CV-NGMCCF.DGN
CHILLTICS.DGN
19-068-A-SOUN_C1
19-068-A-MAP-CON_LF.DGN
19-068-A-CON6.DGN

Reference files:

19-068-VH-009.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

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

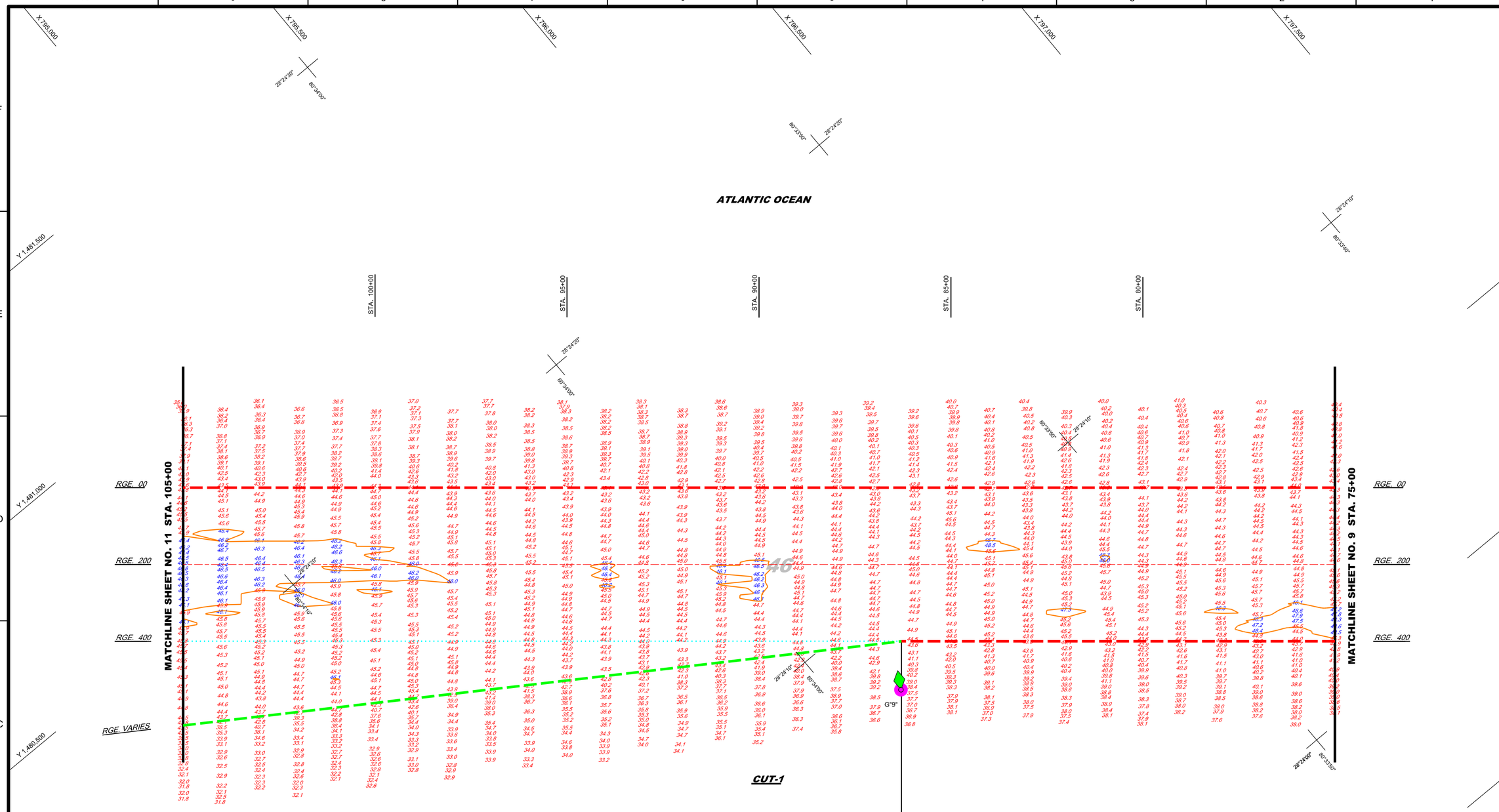
## PLAN

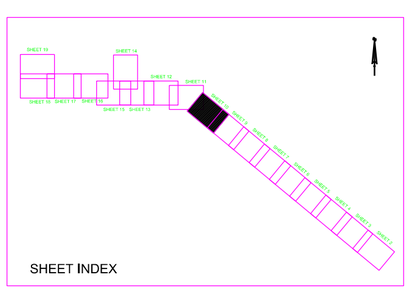
Scale: AS SHOWN

Drawing no.

**9 / 18**

SHEET 9 OF 19




SHEET INDEX

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-9 (03/19) | 795,624 | 1,479,179 | 28°24'07.87" | 80°33'58.35" |

GRAPHIC SCALE

100' 0 100' 200'

NOTES:

1. REFER TO SURVEY NO. 19-068.
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
Drawn by: VRM
Checked by: GMR
Inv. No. ---
Date: MAR 2019

Reference files:
19-068-F-BS-PRTR-DGN
CANAVERAL-HARBOR-C-AGMCCF.DGN
CHLTTICS.DGN
19-068-A-SOUN_C1_LF.DGN
19-068-A-SOUN_C1_RT.DGN
19-068-A-NAV.DGN

19-068-VH-010.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

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

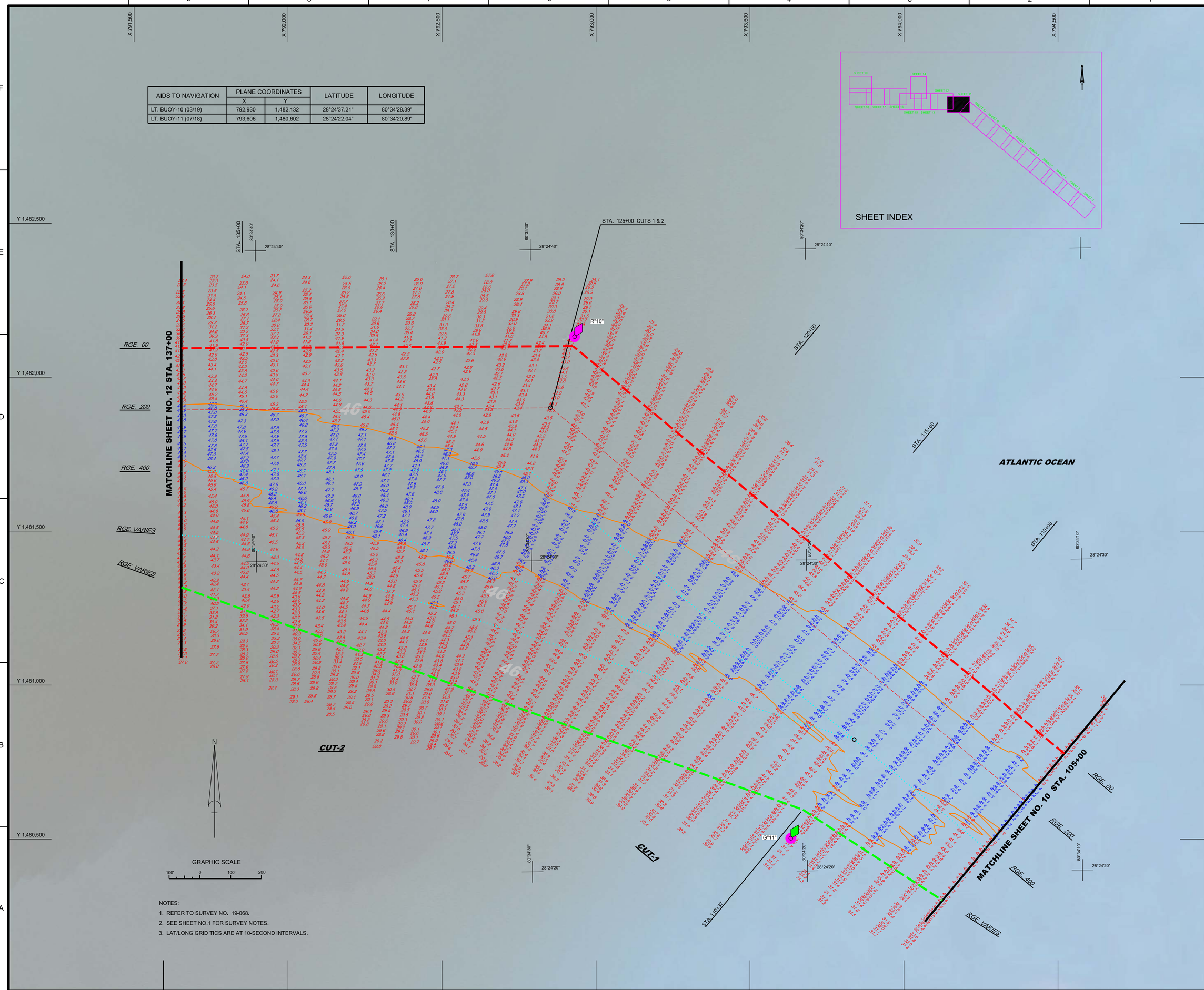
Scale: AS SHOWN

Drawing no.

**10 / 18**

SHEET 10 OF 19

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-10 (03/19) | 792,930 | 1,482,132 | 28°24'37.21" | 80°34'28.39" |
| LT. BUOY-11 (07/18) | 793,606 | 1,480,602 | 28°24'22.04" | 80°34'20.89" |




NOTES:

1. REFER TO SURVEY NO. 19-068.
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

Cad by: GMR
Engineered by: WRM
DWN by: WRM
Rev. No.: - - -
Date: MAR 2019

19-068-A-CAN-PRT26.DGN
CANAVERAL-HARBOR-CAN-MCCF.DGN
CHLLTICS.DGN
19-068-A-SOUN_C1_LF.DGN
19-068-A-SOUN_C2_LF.DGN
19-068-A-NAV.DGN
19-068-A-CON46.DGN

Reference files:
19-068-VH011.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

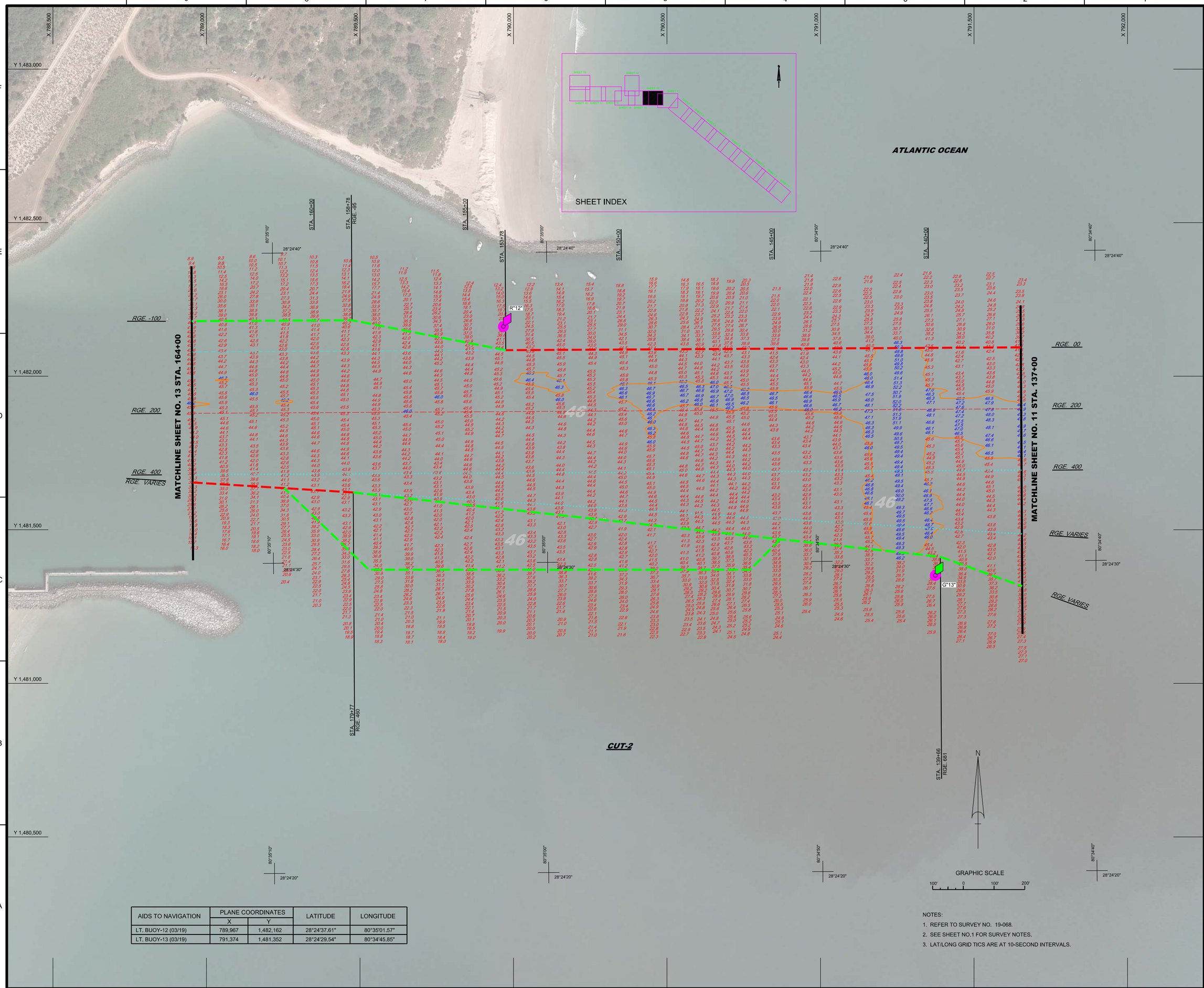
35, 39, 41, 43, 44 AND 46-FOOT PROJECT
STA. 105+00 CUT - 1 THRU STA. 137+00 CUT - 2
PLAN

Scale: AS SHOWN

Drawing no.

**11 / 18**

SHEET 11 OF 19




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-12 (03/19) | 789,967 | 1,482,162 | 28°24'37.61" | 80°35'01.57" |
| LT. BUOY-13 (03/19) | 791,374 | 1,481,352 | 28°24'29.54" | 80°34'45.85" |

NOTES:

1. REFER TO SURVEY NO. 19-068.
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

Drafted by: WRM
Cut by: GMR
DWN by: WRM
Rev. No. - - -
Date: MAR 2019

19-068-A-B-BR25.DGN
CANAVERAL-HARBOR-A-NGMCCF.DGN
CHLLTICS.DGN
19-068-V-SOUN_C2_LF.DGN
19-068-A-NAV.DGN
19-068-V-CONVELD.DGN

Reference files:

19-068-VH-012.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

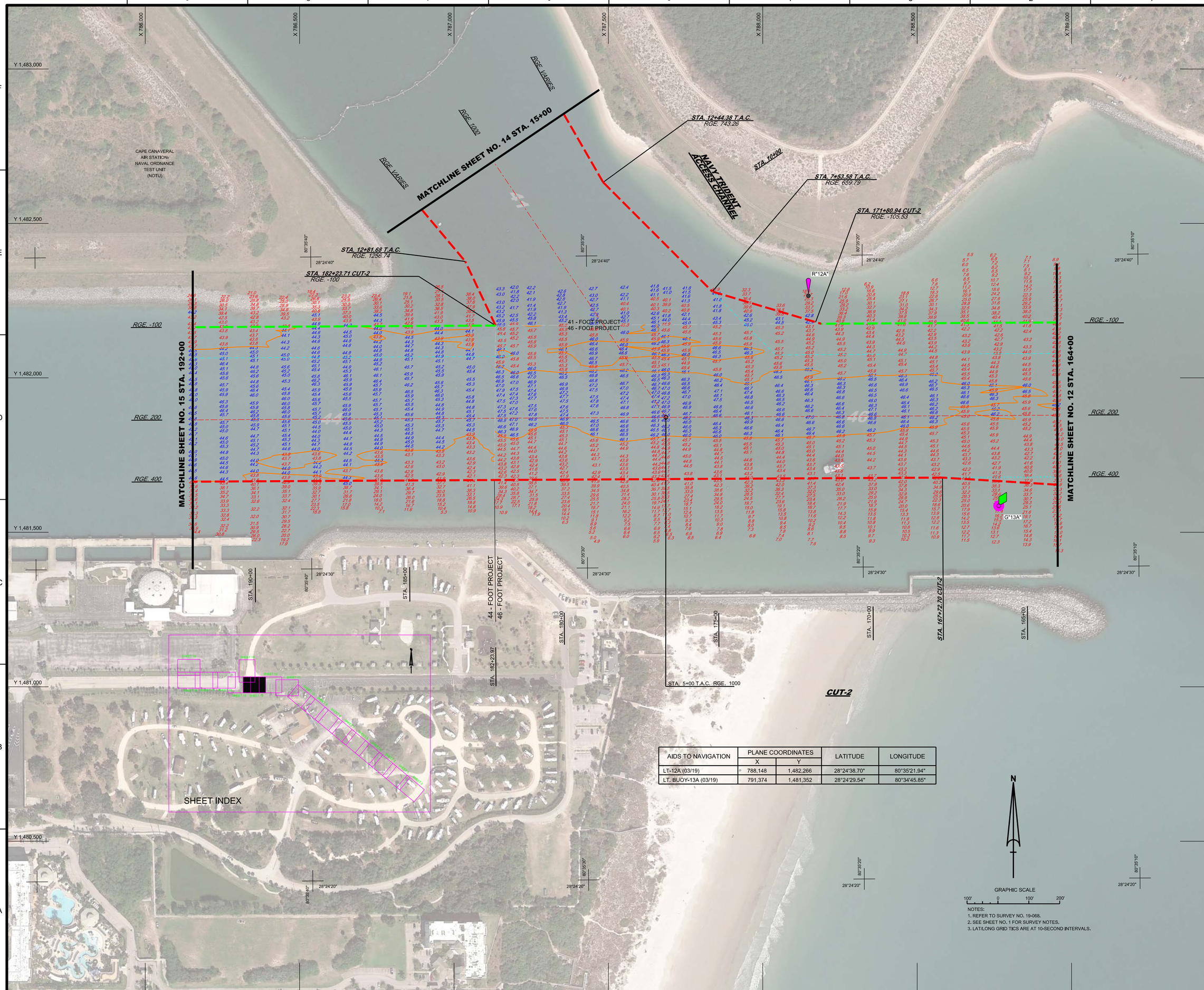
## 35, 39, 41, 43, 44 AND 46-FOOT PROJECT
## STA. 137+00 THRU STA. 164+00 CUT - 2 PLAN

Scale: AS SHOWN

Drawing no.

**12 / 18**

SHEET 12 OF 19




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT-12A (03/19) | 788,148 | 1,482,266 | 28°24'38.70" | 80°35'21.94" |
| LT. BUOY-13A (03/19) | 791,374 | 1,481,352 | 28°24'29.54" | 80°34'45.85" |

GRAPHIC SCALE
100' 0 100' 200'

NOTES:
1. REFER TO SURVEY NO. 19-068.
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.: - - -
Date: MAR 2019

19-068_C-B-FIRST.DGN
CANAVERAL-HARBOR-C-NGMCCF.DGN
CHLLTICS.DGN
19-068-V-SOUN_C2_LF.DGN
19-068-V-SOUN_C2_RT.DGN
19-068-V-CONE.DGN
19-068-V-NAV.DGN

Reference files:
19-068-VH-013.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

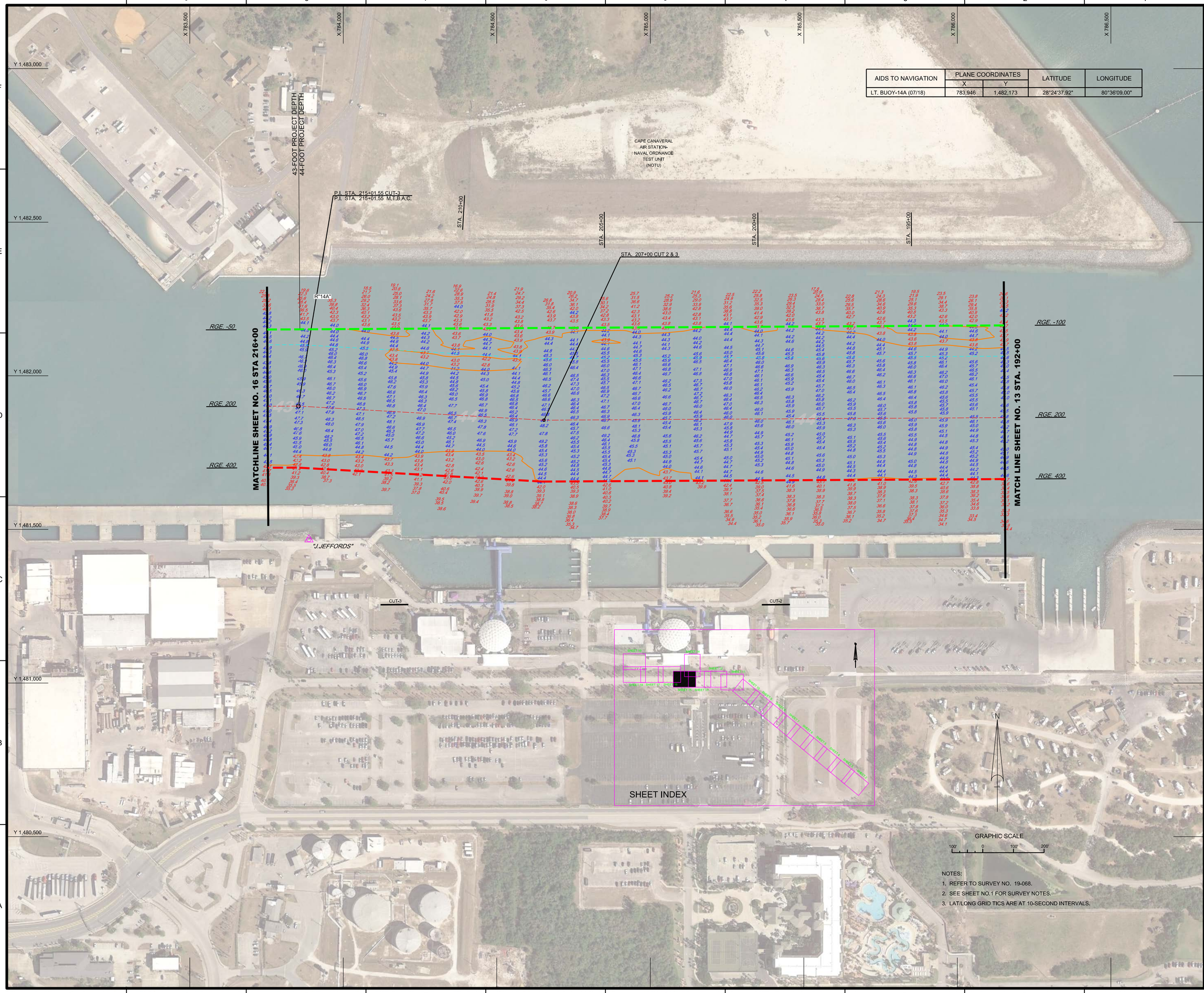
## 35, 39, 41, 43, 44 AND 46-FOOT PROJECT
## STA. 164+00 THRU STA. 192+00 CUT - 2
## PLAN

Scale: AS SHOWN

Drawing no.

**13 / 18**

SHEET 13 OF 19




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-14A (07/18) | 783,946 | 1,482,173 | 28°24'37.92" | 80°36'09.00" |

NOTES:

1. REFER TO SURVEY NO. 19-068.
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

Checked by: GMR
Designed by: WRM
DWN by: WRM
Inv. No. - - -
Dated: MAR 2019

19-068-Ch-Ch-BRIDGE.DGN
CANAVERAL HARBOR-CAGMCCF.DGN
19-068-SOUN_C2_LF.DGN
19-068-SOUN_C3_LF.DGN
19-068-SOUN_C4_LF.DGN
19-068-VCON44.DGN
19-068-VCON43.DGN
19-068-HAV.DGN
Reference files:

19-068-VH-015.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

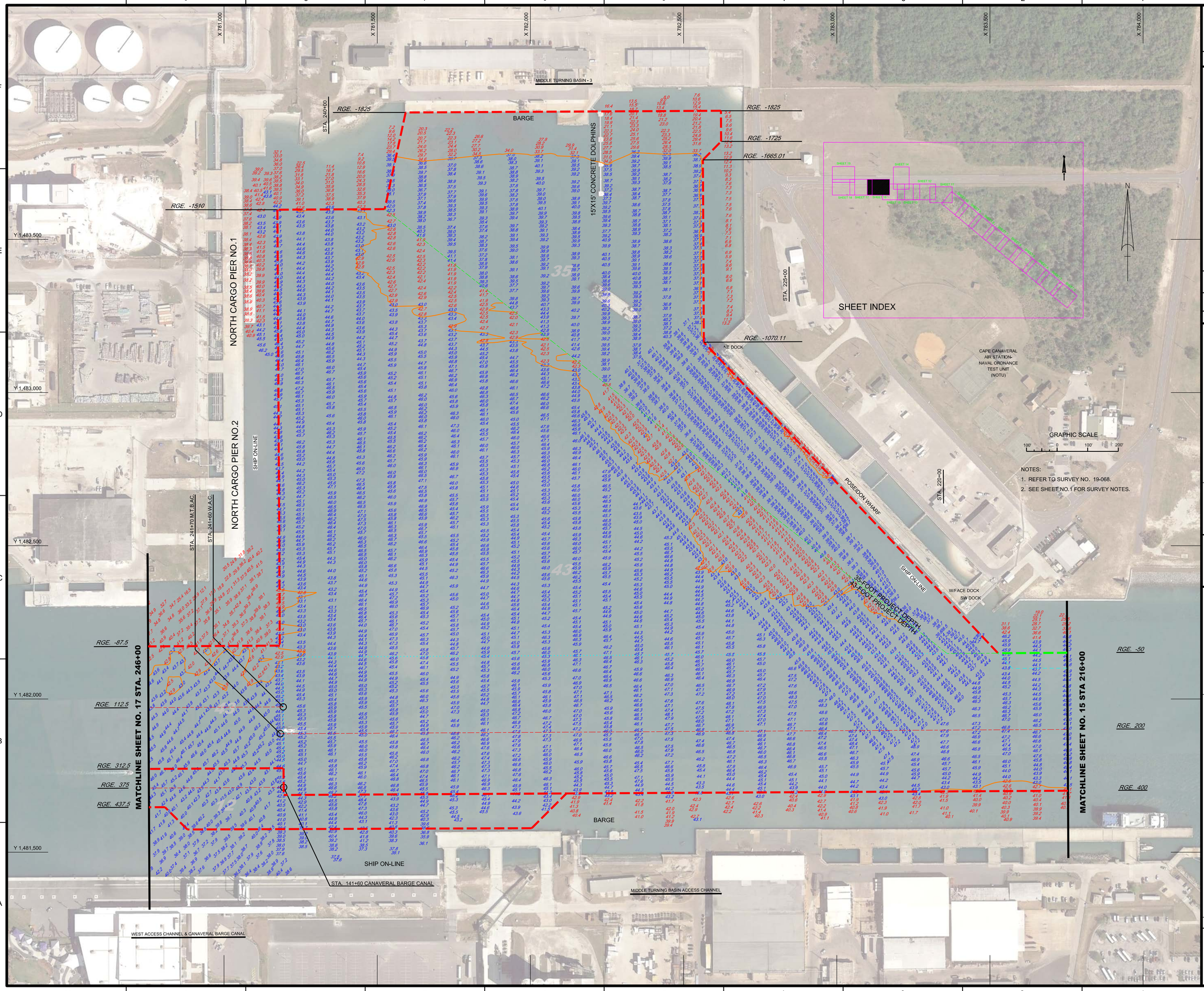
## 35, 39, 41, 43, 44 AND 46-FOOT PROJECT
## STA. 192+00 CUT - 2 THRU STA. 216+00 M.T.B.
## PLAN

Scale: AS SHOWN

Drawing no.

**14 / 18**

SHEET 15 OF 19




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: WRM
Chk'd by: GMR
DWN by: WRM
Rev. No.: - - -
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19-068-C-B-SB016.DGN
CANAVERFB-B4HBORC-A-NGMCCF.DGN
19-068A-V-SOUN_POS_LL_LF.DGN
19-068A-V-SOUN_MTB_LF.DGN
19-068A-V-SOUN_MTB_WP.DGN
19-068A-V-SOUN_WP_LF.DGN
19-068A-V-CONS.DGN
19-068A-V-CONS5.DGN
Reference files:
19-068A-VH016.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q 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

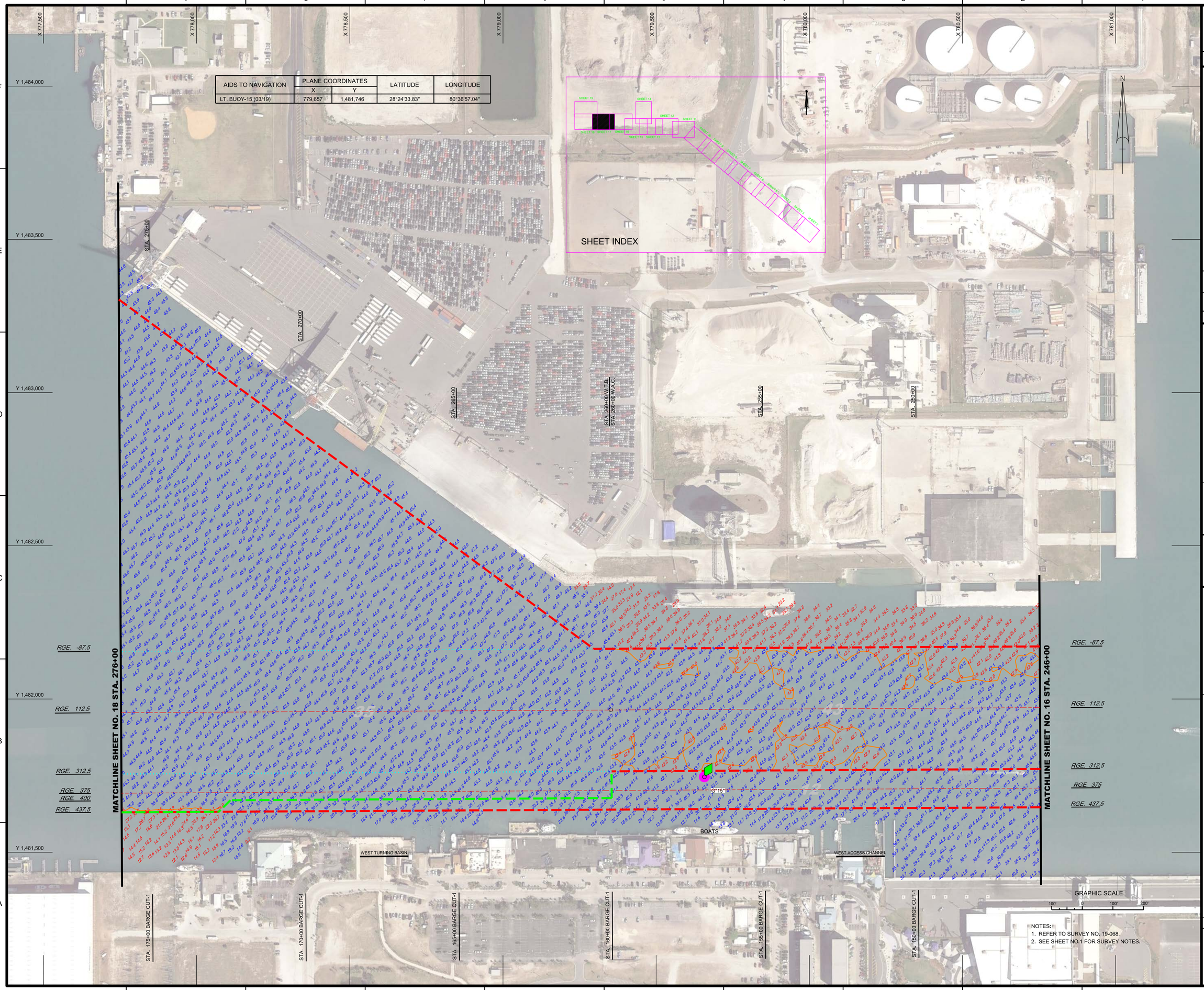
Scale: AS SHOWN

Drawing no.

**15 / 18**

SHEET 16 OF 19

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT. BUOY-15 (03/19) | 779,657 | 1,481,746 | 28°24'33.83" | 80°36'57.04" |




NOTES:
1. REFER TO SURVEY NO. 19-068.
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
DWN by: WRM
Chk by: GMR
Rev. No.: - - -
Date: MAR 2019

19-068-C-JS-BKGN.DGN
CANAVERAL-HARBOR-C-NGM-CCF.DGN
19-068-V-SOUN_WAC-VITB_HF.DGN
19-068-A-CONS.DGN
19-068-V-CONS.DGN
19-068-A-NAV.DGN

Reference files:
19-068-VH-017.DGN

File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q 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

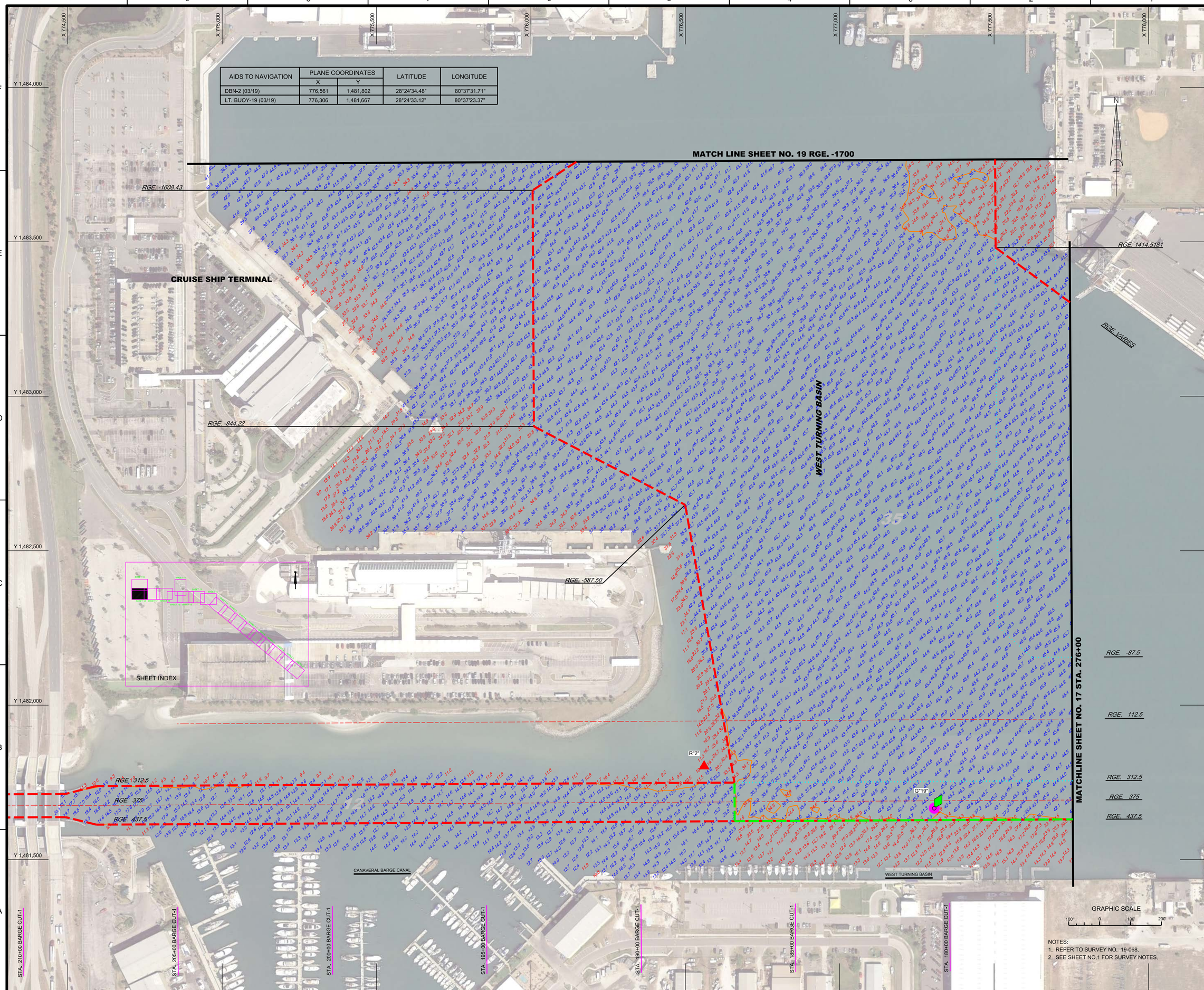
Scale: AS SHOWN

Drawing no.

**16 / 18**

SHEET 17 OF 19

| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| DBN-2 (03/19) | 776,561 | 1,481,802 | 28°24'34.48" | 80°37'31.71" |
| LT. BUOY-19 (03/19) | 776,306 | 1,481,667 | 28°24'33.12" | 80°37'23.37" |




NOTES:
1. REFER TO SURVEY NO. 19-068.
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

Designed by: WRM
Dwn by: WRM
Ckd by: GMR
Inv. No. - -
Date: MAR 2019

19-068-C-SS-BRGE.DGN
CANAVERAL-BRGE-DRG-NGMCCF.DGN
19-068-VSOUN_WAC-VWTB_HF.DGN
19-068-VCON12.DGN
19-068-VSOUN.DGN
19-068-VANA1.DGN

Reference files:
19-068-VH-018.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q HYDROGRAPHIC EXAM SURVEY FY19

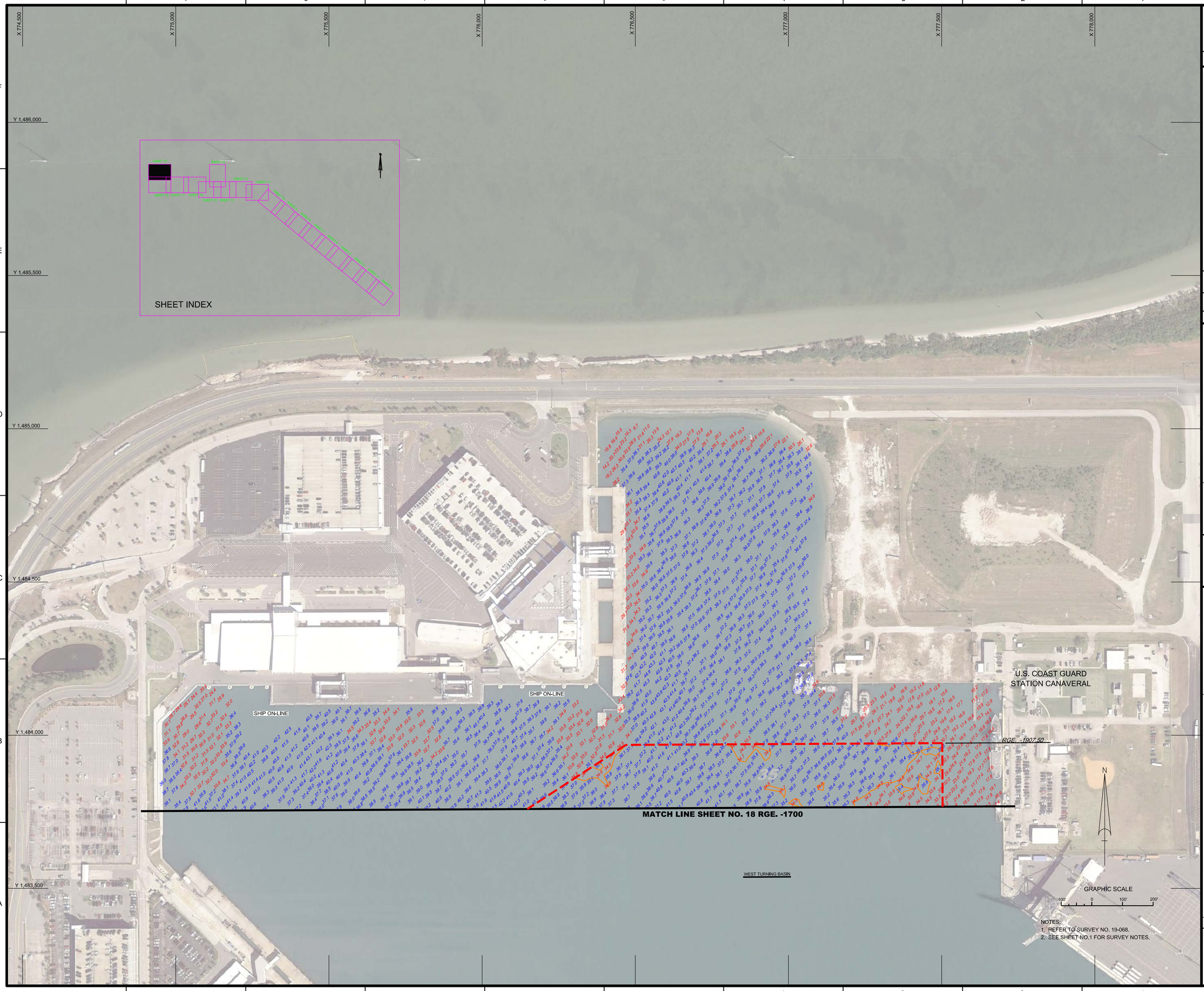
## 35, 39, 41, 43, 44 AND 46-FOOT PROJECT
## STA. 276+00 W.T.B. THRU END OF WEST TURNING BASIN PLAN

Scale: AS SHOWN

Drawing no.

**17 / 18**

SHEET 18 OF 19




NOTES:
1. REFER TO SURVEY NO. 19-068.
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
DWN by: WRM
Ckd by: GMR
Inv. No. - - -
Date: MAR 2019

Reference files:
19-068-A_SUR-RPR.DGN
CANAVERAL HARBOR-CAMCCF.DGN
19-068-V-SOUN_WAC-VWTB_HF.DGN
19-068-V-CON35.DGN

File name: 19-068-V-H-019.DGN

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q 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