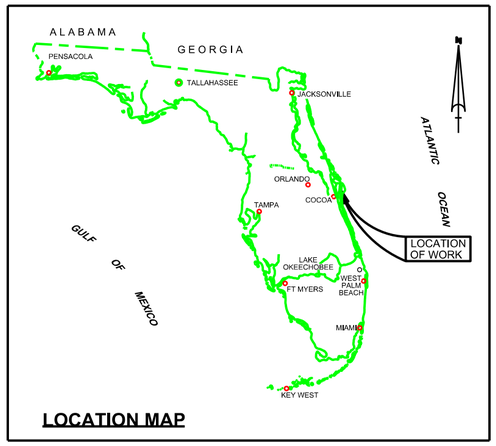
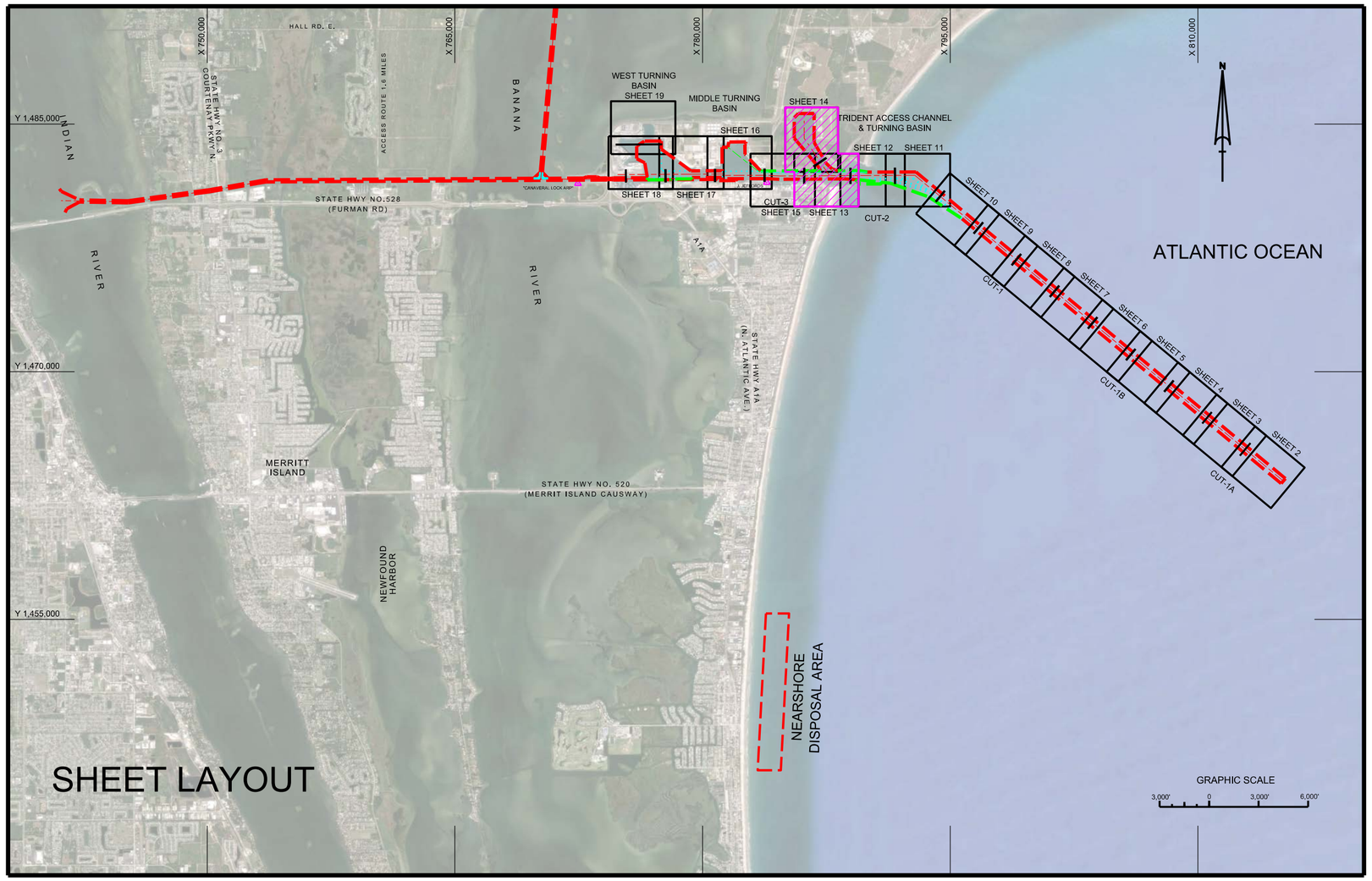
# CANAVERAL HARBOR
# BREVARD COUNTY, FLORIDA
# 1Q NAVY HYDRO EXAM SURVEY FY19




**LOCATION MAP**




SURVEY NOTES

1. REFER TO SURVEY NO. 19-069.
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). NOAA'S VDATUM MODEL WAS USED AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAUGE SITES SPECIFIED BELOW:

   NOAA TIDAL STATION 872-1604, TRIDENT PIER, CANAVERAL, FL
8. VERTICAL MEASUREMENTS WERE MADE USING A ROSS SMART SOUNDER SINGLE-BEAM TRANSDUCER OPERATING AT 28/200 KHZ. LOW FREQUENCY SOUNDINGS ARE SHOWN FOR THE TRIDENT ACCESS CHANNEL AND THE TRIDENT TURNING BASIN.

| VESSEL | DATE OF SURVEY | CUT |
|---|---|---|
| SB-46 | 13 FEB 2019 | TAC, TTB |

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 |

| 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

19-069-CJR-FIELD-DGN
CHLAYOUT-DGN
CANAVERAL HARBOR-C-NGNCCF.DGN

Reference files:
19-069-VH-001.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

**1Q NAVY HYDRO EXAM SURVEY FY19**

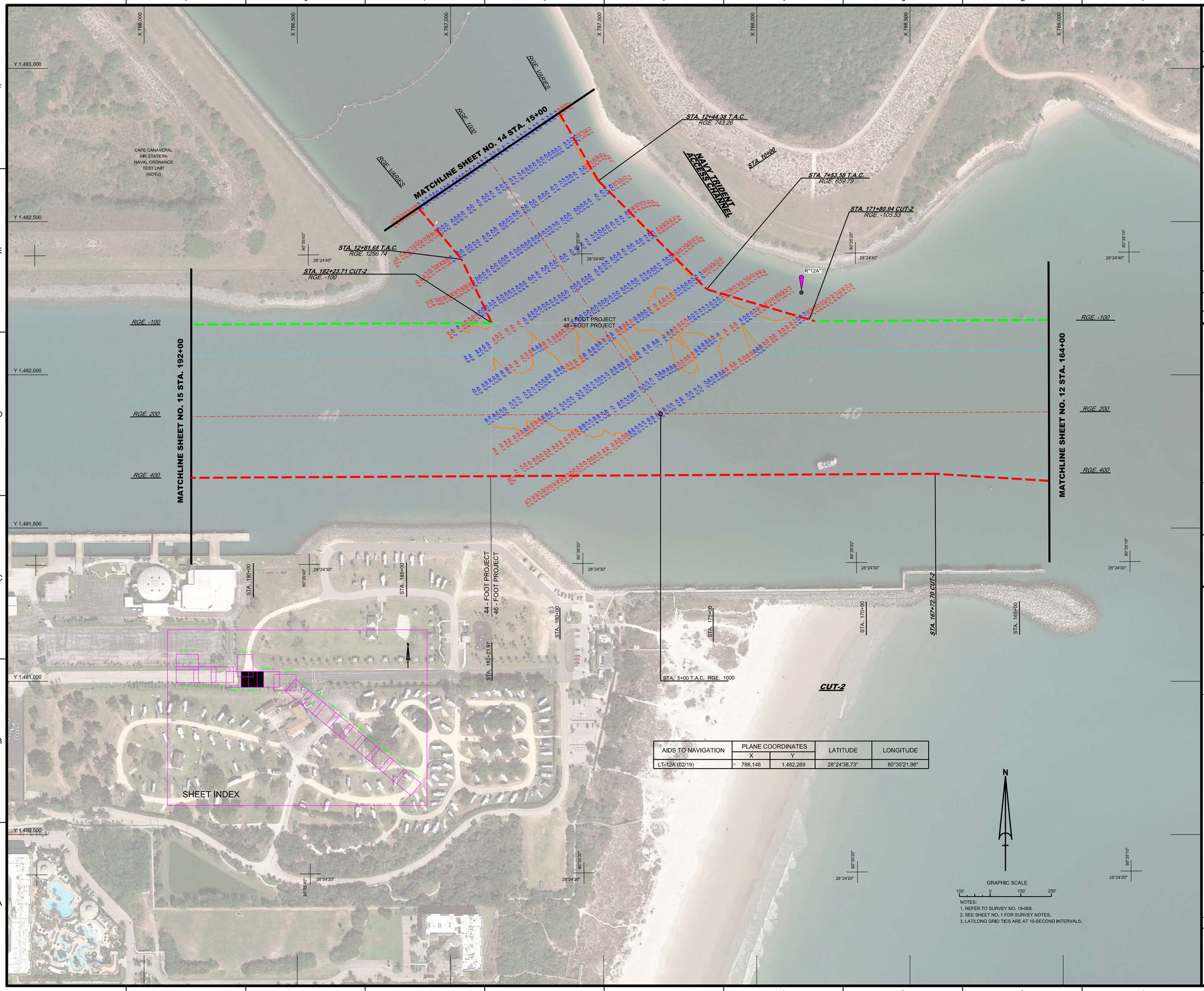
**41-FOOT PROJECT**
**INDEX, LOCATION AND VICINTY PLAN**

Scale: AS SHOWN

Drawing no.

**1 / 3**

SHEET 1 OF 19




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT-12A (02/19) | 788,146 | 1,482,269 | 28°24'38.73" | 80°35'21.96" |

NOTES:
1. REFER TO SURVEY NO. 19-069.
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

19-069-CAR-BRCR.DGN
CANAVERAL-HARBOR-A-NGMCCF.DGN
CHLTTICS.DGN
19-069-V-SOUN_TACT_LF.DGN
19-069-V-CONM-CUT.DGN
19-069-V-CONM.DGN
19-069-V-CONM.DGN
19-069-V-NAV.DGN
Reference files:
19-069-VH-013.DGN
File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

**1Q NAVY HYDRO EXAM SURVEY FY19**

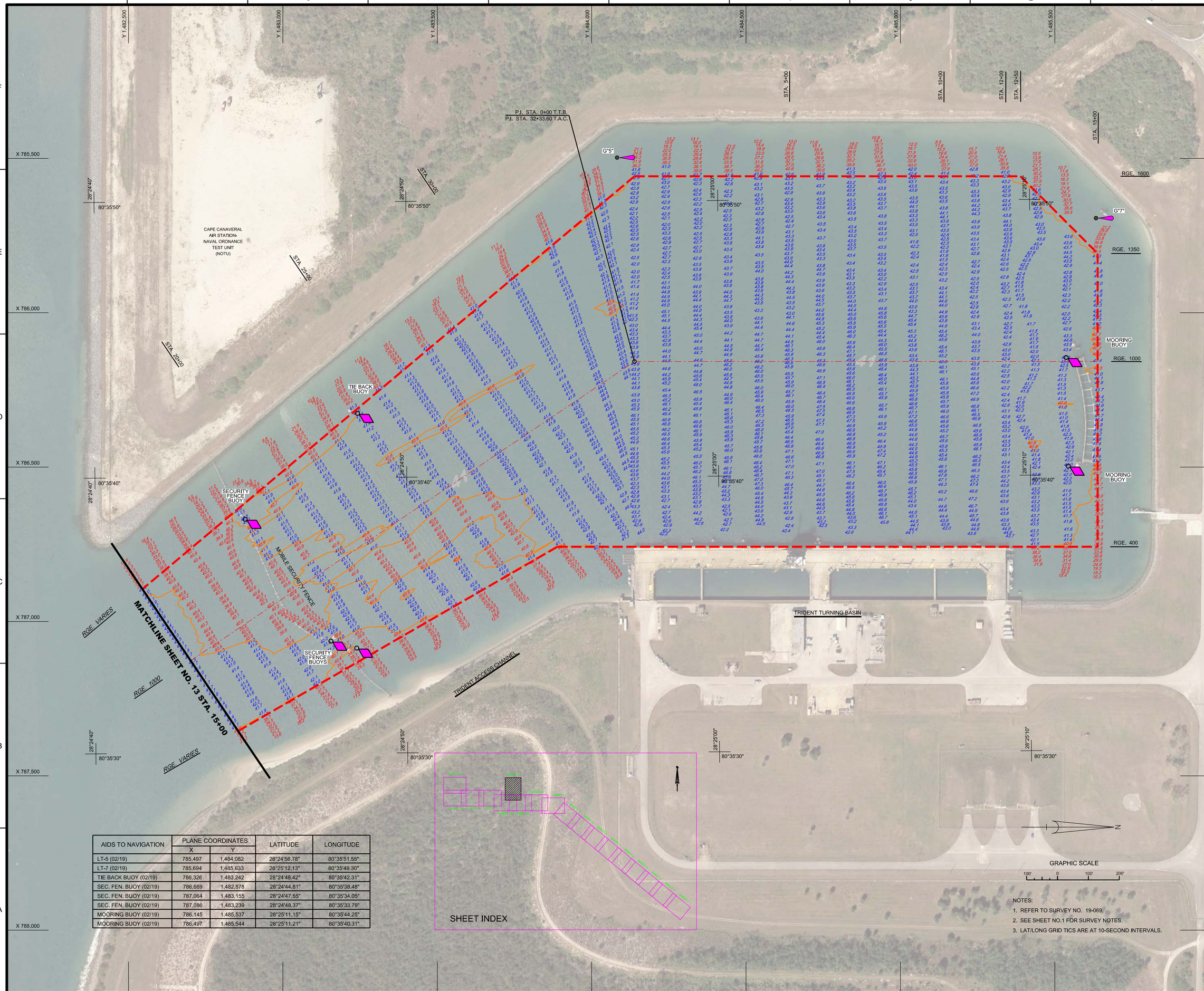
**41-FOOT PROJECT**
**STA. 164+00 THRU STA. 192+00 CUT - 2**
**PLAN**

Scale: AS SHOWN

Drawing no.

**2 / 3**

SHEET 13 OF 19




| AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|---|---|---|---|---|
| | X | Y | | |
| LT-5 (02/19) | 785,497 | 1,484,082 | 28°24'56.78" | 80°35'51.55" |
| LT-7 (02/19) | 785,694 | 1,485,633 | 28°25'12.13" | 80°35'49.30" |
| TIE BACK BUOY (02/19) | 786,326 | 1,483,242 | 28°24'48.42" | 80°35'42.31" |
| SEC. FEN. BUOY (02/19) | 786,669 | 1,482,878 | 28°24'44.81" | 80°35'38.48" |
| SEC. FEN. BUOY (02/19) | 787,064 | 1,483,155 | 28°24'47.55" | 80°35'34.05" |
| SEC. FEN. BUOY (02/19) | 787,086 | 1,483,239 | 28°24'48.37" | 80°35'33.79" |
| MOORING BUOY (02/19) | 786,145 | 1,485,537 | 28°25'11.15" | 80°35'44.25" |
| MOORING BUOY (02/19) | 786,497 | 1,485,544 | 28°25'11.21" | 80°35'40.31" |

NOTES:

1. REFER TO SURVEY NO. 19-069.
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 | Description |
|---|---|---|
| N | | ABCD |

Zone: A-N

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

19-069_C-B-SHEETS.DGN
CANAVERAL-HARBOR-AND-MCCF.DGN
CHLLTICS.DGN
19-069-V-SOUN_TAC2_LF.DGN
19-069-V-SOUN_TB_LF.DGN
19-069-V-NAV.DGN
19-069-V-NAV2.DGN

Reference files:

19-069-VH-014.DGN

File name:

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

# 1Q NAVY HYDRO EXAM SURVEY FY19

## 41-FOOT PROJECT

## TRIDENT ACCESS CHANNEL & TURNING BASIN PLAN

Scale: AS SHOWN

Drawing no.

3 / 3

SHEET 14 OF 19