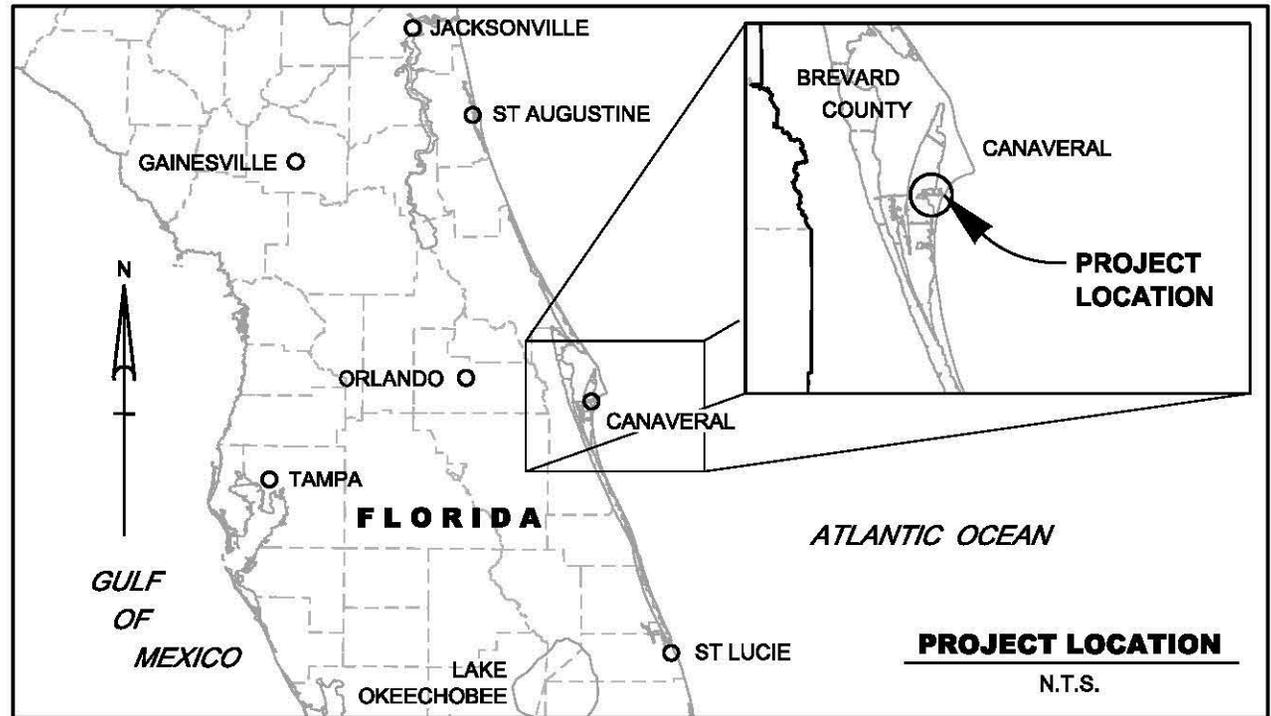


INDEX TO PLATES

| # | TITLE ON PLATE |
|----|--------------------|
| 01 | COVER SHEET |
| 02 | PROJECT OVERVIEW |
| 03 | O&M CHANNEL AREAS |
| 04 | ODMDS |
| 05 | NEARSHORE DISPOSAL |



LEGEND

| | |
|--|--|
| | FEDERAL CHANNEL |
| | NEARSHORE PLACEMENT AREA |
| | OCEAN DREDGED MATERIAL DISPOSAL SITE - ODMDS |
| | EXISTING CONTOUR LINE |
| | ROCK REVETMENT |
| | MATERIAL EXCLUDED FROM ODMDS DISPOSAL |

GENERAL NOTES:

1. REFER TO THIS PLATE FOR PROJECT LOCATION, PLATE INDEX, ABBREVIATIONS AND LEGEND
2. THE PLANE COORDINATES SHOWN ARE BASED ON THE FLORIDA STATE PLANE EAST COORDINATE SYSTEM (0901) AND REFERENCED TO THE 1990 ADJUSTMENT OF THE NAD OF 1983 (NAD83(90)).
3. ELEVATIONS SHOWN ON ALL PLATES ARE IN US SURVEY FEET AND ARE BASED ON NAVD88. ELEVATIONS ARE BELOW THE DATUM UNLESS PRECEDED BY A (+) SIGN.
4. ALL PLANIMETRIC LAND FEATURES DEPICTED ON THESE PLATES ARE FOR INFORMATION ONLY AND WERE NOT PHYSICALLY LOCATED BY SURVEY UNLESS OTHERWISE INDICATED. NOT ALL EXISTING STRUCTURES ARE INDICATED ON THESE PLATES.

ABBREVIATIONS

| | |
|---------|---|
| AUTH. | = AUTHORIZATION |
| DWG. | = DRAWING |
| EL. | = ELEVATION |
| ECL. | = EROSION CONTROL LINE |
| FT. | = FOOT/FEET |
| MHW. | = MEAN HIGH WATER |
| MLW. | = MEAN LOW WATER |
| NAVD88. | = NORTH AMERICAN VERTICAL DATUM OF 1988 |
| NTS. | = NOT TO SCALE |
| TYP. | = TYPICAL |



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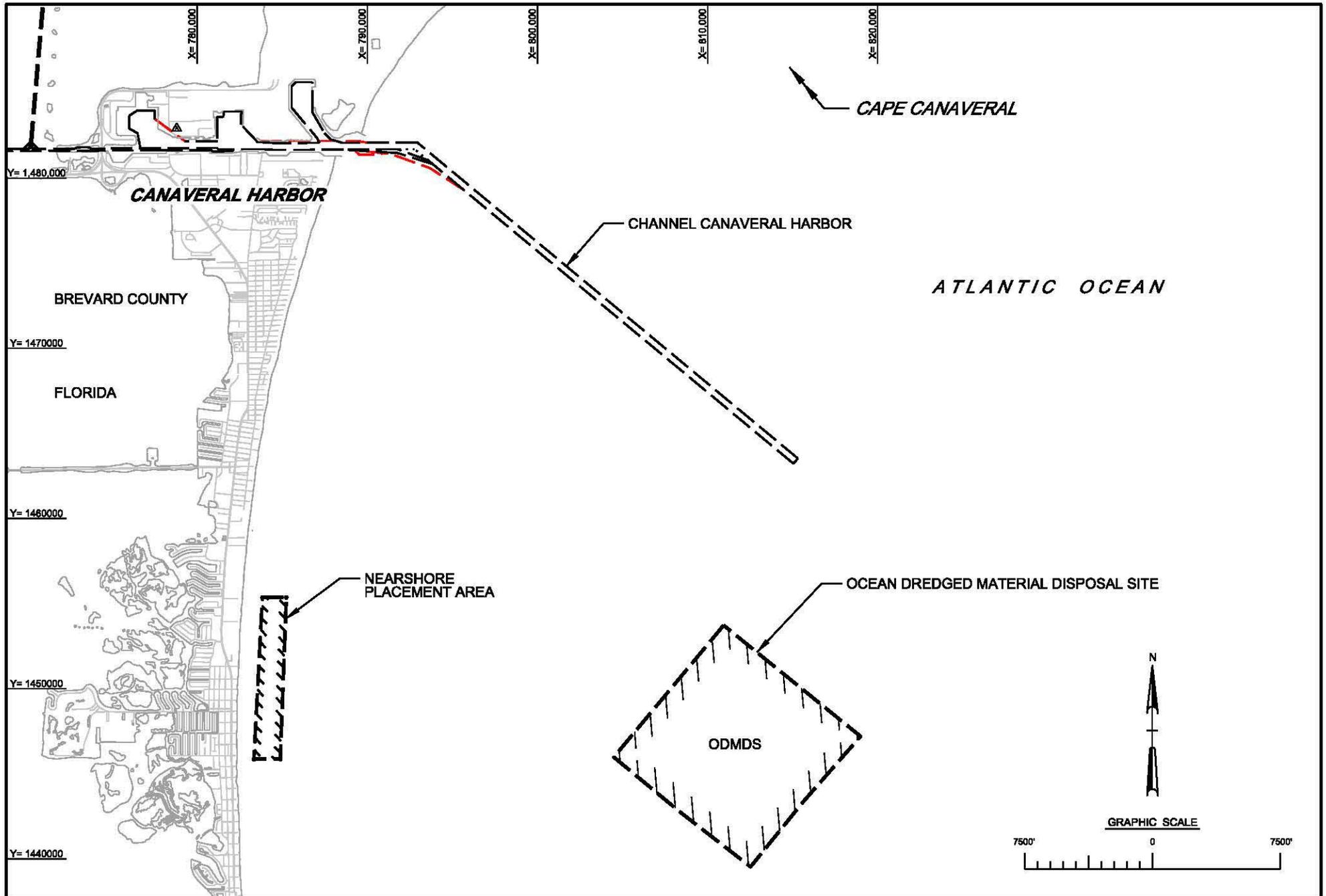
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

CANAVERAL HARBOR MAINTENANCE DREDGING

COVER SHEET

| DATE | DESIGNED | APPROVED | SYMBOL | DATE: |
|----------|----------|----------|--------|-----------------|
| 11/15/18 | J.W.L. | D.F.D. | | NOV. 2018 |
| | | | | DWN BY: H.T. |
| | | | | PLATE: 01 OF 05 |



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JACKSONVILLE, FLORIDA

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
CANAVERAL HARBOR MAINTENANCE DREDGING

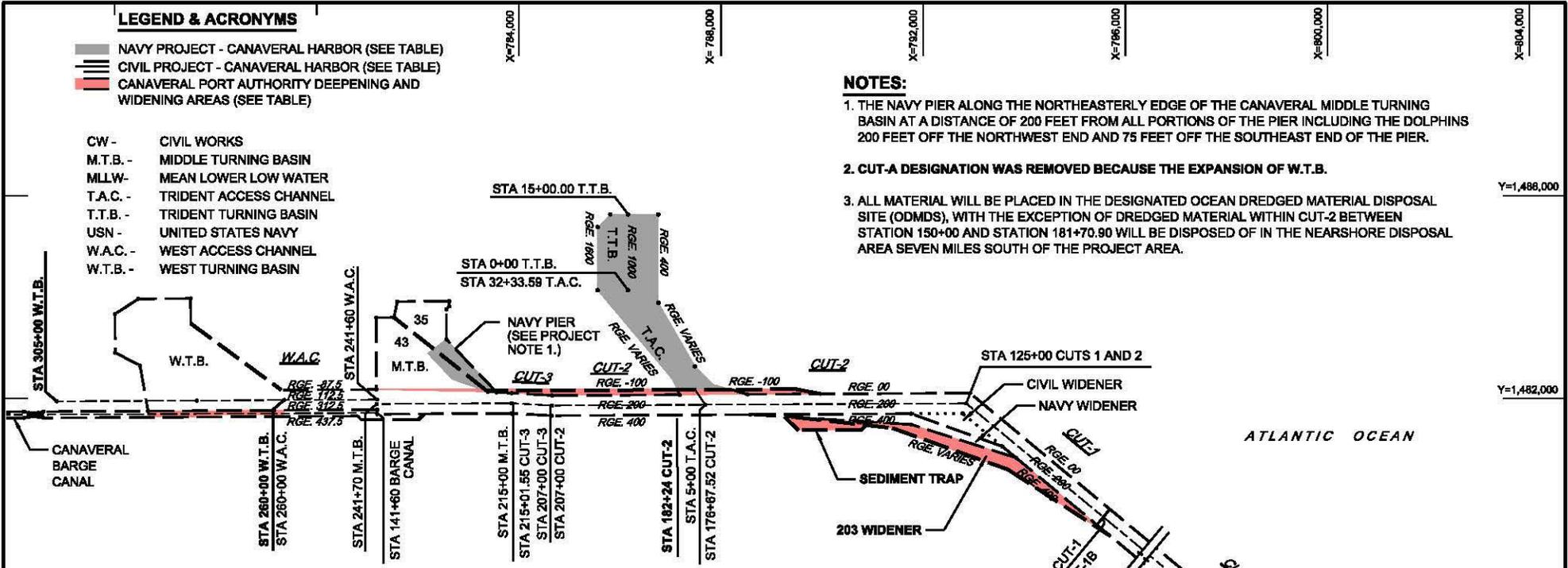
PROJECT OVERVIEW

| DATE | DESIGNED | APPROVED | SYMBOL | DATE: |
|----------|----------|----------|--------|---------------------------|
| 11/15/18 | J.W.L. | D.F.D. | | NOV. 2018 |
| | | | | DWN BY: H.T. |
| | | | | PLATE: 02 OF 05 |

LEGEND & ACRONYMS

- █ NAVY PROJECT - CANAVERAL HARBOR (SEE TABLE)
- █ CIVIL PROJECT - CANAVERAL HARBOR (SEE TABLE)
- █ CANAVERAL PORT AUTHORITY DEEPENING AND WIDENING AREAS (SEE TABLE)

- CW - CIVIL WORKS
- M.T.B. - MIDDLE TURNING BASIN
- MLLW- MEAN LOWER LOW WATER
- T.A.C. - TRIDENT ACCESS CHANNEL
- T.T.B. - TRIDENT TURNING BASIN
- USN - UNITED STATES NAVY
- W.A.C. - WEST ACCESS CHANNEL
- W.T.B. - WEST TURNING BASIN



NOTES:

1. THE NAVY PIER ALONG THE NORTHEASTERLY EDGE OF THE CANAVERAL MIDDLE TURNING BASIN AT A DISTANCE OF 200 FEET FROM ALL PORTIONS OF THE PIER INCLUDING THE DOLPHINS 200 FEET OFF THE NORTHWEST END AND 75 FEET OFF THE SOUTHEAST END OF THE PIER.
2. CUT-A DESIGNATION WAS REMOVED BECAUSE THE EXPANSION OF W.T.B.
3. ALL MATERIAL WILL BE PLACED IN THE DESIGNATED OCEAN DREDGED MATERIAL DISPOSAL SITE (ODMDS), WITH THE EXCEPTION OF DREDGED MATERIAL WITHIN CUT-2 BETWEEN STATION 150+00 AND STATION 181+70.90 WILL BE DISPOSED OF IN THE NEARSHORE DISPOSAL AREA SEVEN MILES SOUTH OF THE PROJECT AREA.

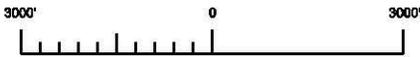
CANAVERAL HARBOR CHANNEL BOUNDARIES

| PROJECT FEATURE | STATION | EXISTING DIMENSIONS DREDGING DEPTH (FT) X WIDTH (FT) X LENGTH (FT) |
|------------------------------------|----------------------------------|---|
| Outer Reach | Cut 1A, 0+00 TO 110+00 | 46 x 400 x 11,000 (CW) |
| | Cut 1B, 0+00 TO 55+00 | 46 x 400 x 5,500 (CW) |
| | Cut 1, 0+00 TO 125+00 | 46 x 400 x 12,500 (CW) |
| Civil Turn Widener | | 46 x Irregular Shape - 7.7 ac (CW) |
| Navy Turn Widener | | 46 x Irregular Shape - 15.6 ac (CW) |
| 203 Turn Widener/ Sediment Trap | | 46 x Irregular Shape - 22.8 acres (CW) |
| Middle Reach | Cut 2, 125+00 TO 158+78.35 | 46 x 400 x 3,378.35 (CW) |
| | CUT 2, 158+78 TO 182+23.98 | 46 x 500 x 2,292.6 |
| T.A.C. | T.A.C., 5+00 TO 32+33.59 | 41 x width varies x 2,733.59 (USN) |
| T.T.B. | T.T.B., 0+00 TO 15+00 | 41 x 1,200 x 1,500 (USN) |
| Inner Reach | Cut 2, 181+70.90 TO 207+00 | 44 x 500 x 2,529.10 (CW) |
| | Cut 3, 207+00 TO 215+01.56 | 44 x 500 x 801.56 (CW) |
| M.T.B. | M.T.B., 215+00 TO 241+70 | As Shown x 500 x 296.68 (CW) |
| M.T.B. | M.T.B., 217+96.68 TO 241+70 | 43 x width varies x Diameter 1,422' 68.9 acres (CW) |
| W.A.C. | W.A.C. 241+60 TO 260+00 | 43 x 400 x 1,840 (CW) |
| W.T.B. | W.A.C. 260+00 TO 293+38.92 | 35 x width varies x Diameter 1,725' - 141 acres (CW) |
| C.B.C. | Cut 1 TO Cut 4, 141+60 TO 543+05 | 12 x 125 x 40,145 (CW) |

ALL DEPTHS PROVIDED ARE REQUIRED DEPTHS.
2-FEET IS TO BE ADDED FOR ALLOWABLE OVERDEPTH.



GRAPHIC SCALE



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

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
CANAVERAL HARBOR MAINTENANCE DREDGING
O&M CHANNEL AREAS

| DATE | DESIGNED | APPROVED | SYMBOL | DATE: |
|----------|----------|----------|--------|--------------------|
| 11/15/18 | J.W.L. | D.F.D. | | NOV. 2018 |
| | | | | DWN BY: H.T. |
| | | | | FLATE: 03 OF 05 |

Y = 1,455,000

X = 805,000

X = 810,000

X = 815,000

X = 820,000

X = 825,000

X = 830,000

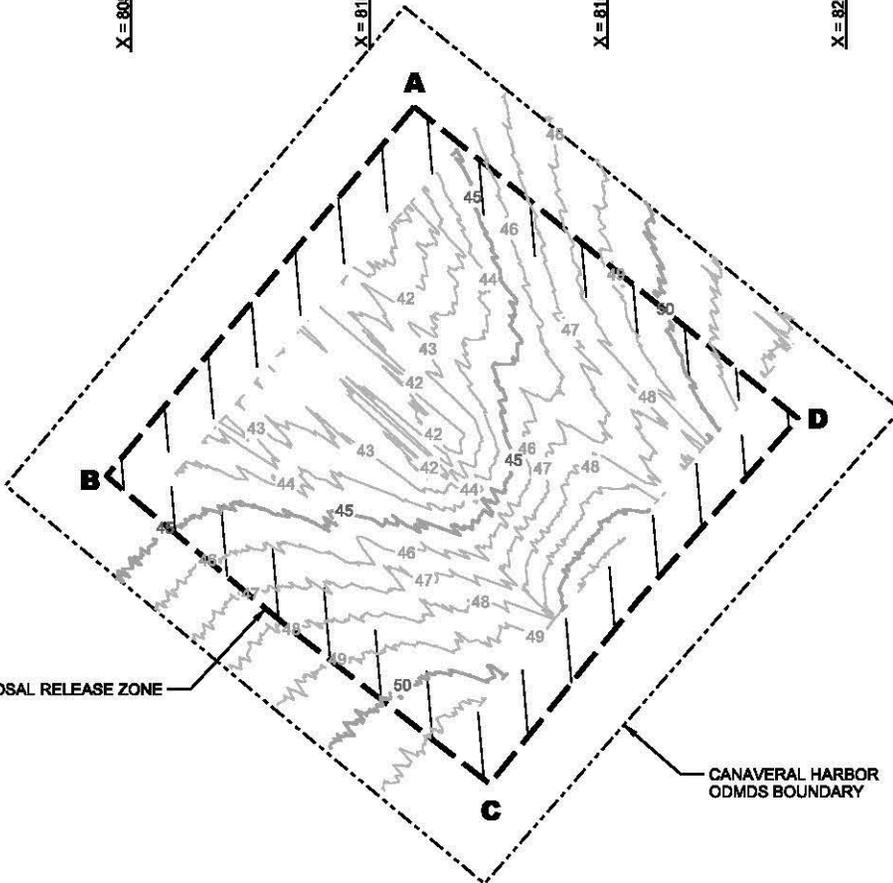
X = 835,000

Y = 1,450,000

Y = 1,445,000

Y = 1,440,000

Y = 1,435,000



ODMDS SURVEY NOTES:

1. REFER TO SURVEY NO. 13-185.
2. DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MEAN LOWER LOW WATER (MLLW), TIDAL EPOCH 1983-2001, AS REPORTED BY THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA). NOAA'S VDATUM MODEL WAS USE AND CALIBRATED TO THE PUBLISHED MLLW HEIGHTS OF THE BENCHMARKS ASSOCIATED WITH THE TIDE GAGE SITE SPECIFIED BELOW:
NOAA TIDAL STATION 872-1804, TRIDENT PIER, CANAVERAL, FL.
3. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
4. TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC GPS WITH A KINEMATIC TIDAL DATUM MODEL. FILE NAME : PORTCANAVERAL-ONLY-06JULY2010.KTD.
5. HORIZONTAL POSITIONS ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (0901), REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
6. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:
CANAVERAL LOCK ARP (OPUS PID: BBCV87)
TIDE STAFF SET NEAR BAR PILOTS DOCK FROM "J JEFFORDS" (OPUS PID: BBCQ55)
7. VERTICAL MEASUREMENTS WERE MADE USING A R2SONIC 2024 MULTI-BEAM SYSTEM OPERATING AT 240 KHZ. ALL DEPTHS REPORTED IN HIGH FREQUENCY.

| | | |
|------------|---------------|------------------------|
| VESSEL | AREA SURVEYED | DATE SURVEYED |
| FLORIDA II | ODMDS | 26-27 AUG & 4 SEP 2013 |

8. AIDS TO NAVIGATION WERE NOT COLLECTED FOR THIS SURVEY.
9. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED, 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 AND IS NOT TO BE USED FOR NAVIGATION.
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, 1 JAN 02.

ODMDS DISPOSAL RELEASE ZONE

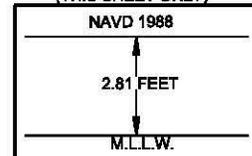
CANAVERAL HARBOR ODMDS BOUNDARY

CANAVERAL HARBOR ODMDS

| ODMDS BOUNDARY LIMITS | | |
|---------------------------|---------|-----------|
| PLANE COORDINATES (NAD83) | | |
| BOUNDARY POINTS | X | Y |
| NORTH | 810,734 | 1,455,819 |
| EAST | 821,139 | 1,447,378 |
| SOUTH | 812,416 | 1,437,446 |
| WEST | 802,376 | 1,445,788 |

| DISPOSAL ZONE LIMITS | | |
|---------------------------|---------|-----------|
| PLANE COORDINATES (NAD83) | | |
| BOUNDARY POINTS | X | Y |
| POINT A | 810,940 | 1,453,721 |
| POINT B | 804,488 | 1,445,982 |
| POINT C | 812,525 | 1,439,532 |
| POINT D | 818,982 | 1,447,196 |

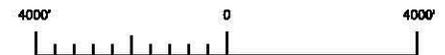
VERTICAL DATUM DIAGRAM (THIS SHEET ONLY)



RELATIONSHIP BETWEEN NAVD 1988 AND NOAA MEAN LOWER LOW WATER TIDAL DATUM (1983-2001 EPOCH)
SOURCE: U.S. DEPARTMENT OF COMMERCE, NOAA NOS
TIDE STATION ID: 872 1848 (COCOA BEACH, ATLANTIC OCEAN, FL)
PUBLICATION DATE: 01/04/2010



GRAPHIC SCALE



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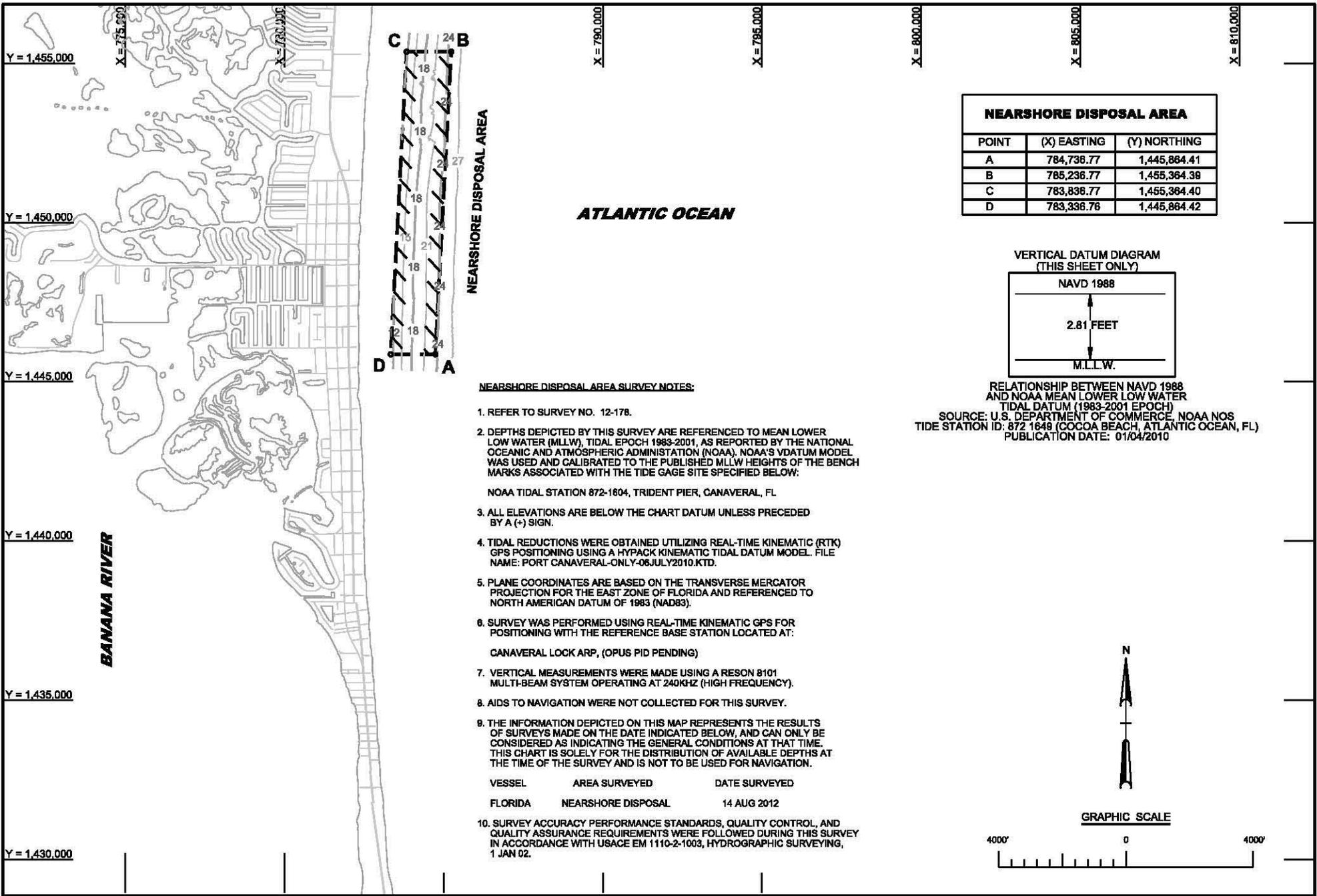
DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

CANAVERAL HARBOR MAINTENANCE DREDGING

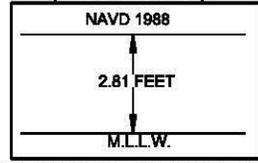
ODMDS PLAN

| DATE | DESIGNED | APPROVED | SYMBOL | DATE: |
|----------|----------|----------|--------|-----------------|
| 11/15/18 | J.W.L. | D.F.D. | | NOV. 2018 |
| | | | | DWN BY: H.T. |
| | | | | FLATE: 04 OF 05 |



| NEARSHORE DISPOSAL AREA | | |
|-------------------------|-------------|--------------|
| POINT | (X) EASTING | (Y) NORTHING |
| A | 784,736.77 | 1,445,864.41 |
| B | 785,236.77 | 1,455,364.38 |
| C | 783,836.77 | 1,455,364.40 |
| D | 783,336.76 | 1,445,864.42 |

VERTICAL DATUM DIAGRAM
(THIS SHEET ONLY)

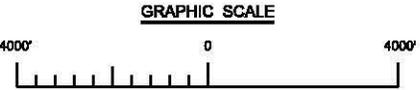
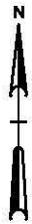


RELATIONSHIP BETWEEN NAVD 1988 AND NOAA MEAN LOWER LOW WATER TIDAL DATUM (1983-2001 EPOCH)
SOURCE: U.S. DEPARTMENT OF COMMERCE, NOAA NOS TIDE STATION ID: 872 1648 (COCOA BEACH, ATLANTIC OCEAN, FL)
PUBLICATION DATE: 01/04/2010

NEARSHORE DISPOSAL AREA SURVEY NOTES:

- REFER TO SURVEY NO. 12-178.
- DEPTHS DEPICTED BY THIS SURVEY ARE REFERENCED TO MEAN LOWER LOW WATER (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 BENCH MARKS ASSOCIATED WITH THE TIDE GAGE SITE SPECIFIED BELOW:
NOAA TIDAL STATION 872-1604, TRIDENT PIER, CANAVERAL, FL
- ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING REAL-TIME KINEMATIC (RTK) GPS POSITIONING USING A HYPACK KINEMATIC TIDAL DATUM MODEL. FILE NAME: PORT CANAVERAL-ONLY-06JULY2010.KTD.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
- SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS FOR POSITIONING WITH THE REFERENCE BASE STATION LOCATED AT:
CANAVERAL LOCK ARP, (OPUS PID PENDING)
- VERTICAL MEASUREMENTS WERE MADE USING A RESON 8101 MULTI-BEAM SYSTEM OPERATING AT 240KHZ (HIGH FREQUENCY).
- AIDS TO NAVIGATION WERE NOT COLLECTED FOR THIS SURVEY.
- THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE INDICATED BELOW, 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 AND IS NOT TO BE USED FOR NAVIGATION.

VESSEL AREA SURVEYED DATE SURVEYED
FLORIDA NEARSHORE DISPOSAL 14 AUG 2012
- 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, 1 JAN 02.



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DEPARTMENT OF THE ARMY
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JACKSONVILLE, FLORIDA

CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA
CANAVERAL HARBOR MAINTENANCE DREDGING

NEASHORE DISPOSAL AREA PLAN

| DATE | DESIGNED | APPROVED | SYMBOL | DATE: |
|----------|----------|----------|--------|-----------------|
| 11/15/18 | J.W.L. | D.F.D. | | NOV. 2018 |
| | | | | DWN BY: H.T. |
| | | | | FLATE: 05 OF 05 |