

MELBOURNE HARBOR BREVARD COUNTY, FLORIDA PROJECT CONDITION SURVEY FY20 8-FOOT PROJECT

SURVEY NOTES

- REFER TO SURVEY NO. 20-292.
- SOUNDINGS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MEAN LOWER LOW WATER (MLLW) OF THE 1983-2001 TIDAL EPOCH.
- TIDAL REDUCTIONS WERE OBTAINED UTILIZING A REAL-TIME KINEMATIC (RTK) GPS AND REFERENCED TO MLLW UTILIZING A HYPPACK KINEMATIC TIDE DATUM (KT) MODEL. KTD FILE NAME IS: "VOLUSIA-BREVARD(W-O_CANAVERALHBR_2016 05 06.KTD)".
- ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.
- PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83).
- ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.
- THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC (RTK) GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:
REFERENCE BASE LOCATED AT "MEL-H-101" (PID: BBBX94)
- 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:

NGS BENCHMARK FOR CUT-1 THRU TURNING BASIN (PID: DM2928)
VERTICAL MEASUREMENTS WERE MADE USING AN EDGETECH 6205 COMBINED MULTI-BEAM AND SIDESCAN SONAR. ALL SOUNDINGS SHOWN ARE IN HIGH FREQUENCY.

VESEL DATE OF SURVEY CUT
SB-48 29 OCT 2020 MELBOURNE HARBOR
- AIDS TO NAVIGATION WERE LOCATED DURING THIS SURVEY.
- 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.
- SURVEY ACCURACY PERFORMANCE STANDARDS, QUALITY CONTROL AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USAGE 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 |

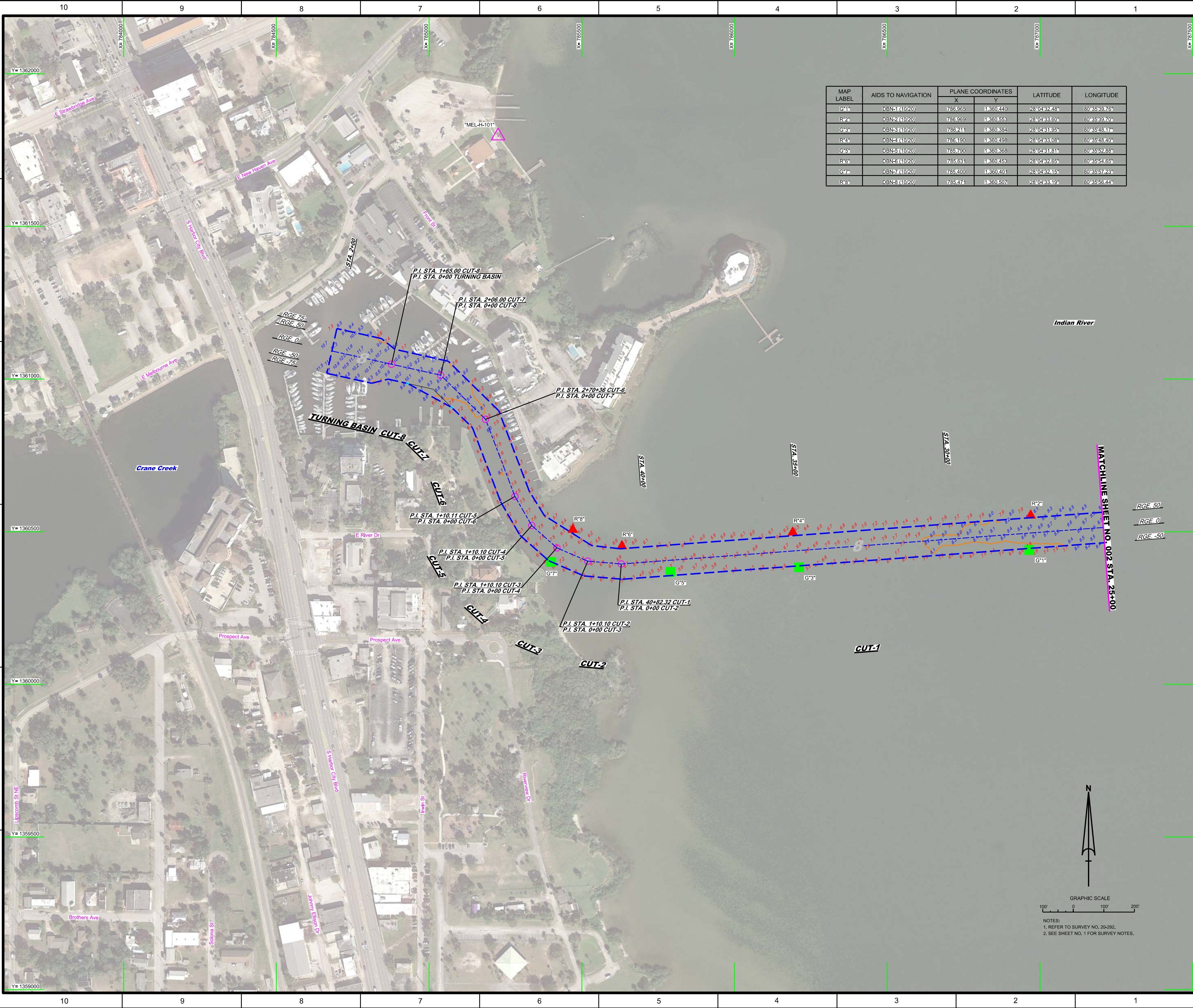
US Army Corps of Engineers
Jacksonville District
SAFETY ON THIS JOB
DEPENDS ON YOU

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


DESIGNED BY: WRM
DRAWN BY: WRM
CHECKED BY: WRM
DATE: OCT 2020

MELBOURNE HARBOR
BREVARD COUNTY, FLORIDA
PROJECT CONDITION SURVEY FY20
8-FOOT PROJECT
INDEX, LOCATION AND VICINITY
MAP

Scale: AS SHOWN
Drawing no. 1
SHEET 01 OF 03



| MAP LABEL | AIDS TO NAVIGATION | PLANE COORDINATES | | LATITUDE | LONGITUDE |
|-----------|--------------------|-------------------|----------|--------------|--------------|
| | | X | Y | | |
| G1* | DBN-1 (10/20) | 785.965 | 1360.440 | 28°04'32.48" | 80°35'39.76" |
| R2* | DBN-2 (10/20) | 785.959 | 1360.555 | 28°04'33.60" | 80°35'39.70" |
| G3* | DBN-3 (10/20) | 785.211 | 1360.384 | 28°04'31.95" | 80°35'48.17" |
| R4* | DBN-4 (10/20) | 785.180 | 1360.498 | 28°04'33.03" | 80°35'48.40" |
| G5* | DBN-5 (10/20) | 785.700 | 1360.368 | 28°04'31.81" | 80°35'52.88" |
| R6* | DBN-6 (10/20) | 785.631 | 1360.455 | 28°04'32.65" | 80°35'54.65" |
| G7* | DBN-7 (10/20) | 785.400 | 1360.401 | 28°04'32.15" | 80°35'57.23" |
| R8* | DBN-8 (10/20) | 785.174 | 1360.507 | 28°04'33.19" | 80°35'56.44" |



US Army Corps of Engineers
Jacksonville District

**SAFETY ON THIS JOB
DEPENDS ON YOU**

| | |
|---|--|
| <p style="font-size: 8px;">Name: _____ Title: _____ Date: _____</p> | <p style="font-size: 8px;">Checked by: _____ Date: _____</p> |
|---|--|

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

Drawn by: _____
 Checked by: _____
 Date: _____

Project: MELBOURNE HARBOR WCD #3 HARNDON
 Station: STA. 25+00 CUT-1 THRU STA. 2+00 TURNING BASIN
 Date: OCT 2020

**PROJECT CONDITION SURVEY FY20
8-FOOT PROJECT
PLAN**

Scale: AS SHOWN

Drawing no. **3**

SHEET 03 OF 03

