FLORIDA DEPARTMENT OF
Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

December 13, 2019

U.S. Army Corps of Engineers, Jacksonville District
Coastal Section, Environmental Branch
Attn: Mike Hollingsworth
P.O. Box 4970
Jacksonville, Florida 32232
Michael.J.Hollingsworth@usace.army.mil

File No.: 16-0183955-011-EE Notice of Receipt
Duval County

Dear Mr. Hollingsworth:

We are in receipt of your notice of exemption made on November 27, 2019, to perform the following activities:

To use the Port Maintenance Dredging Exemption in Section 403.813(3), Florida Statutes, for the removal of portions of a submerged concrete sill and associated maintenance dredging of areas previously excavated under 16-0183955-010-EE issued on October 1, 2019.

The Department acknowledges your intention to use the exemption and your certification that the project meets the requirements of the statute (attached) for the **Sill Removal** work at the US Marine Corps Support Facility-Blount Island (MCSF-BI) located along Pierhead Way (parcel ID 160243-0560), Jacksonville, Florida 32226. The sill is located at station 7+00 in the MCSF-BI Slipway and is 32.6 ft wide by 426.5 ft long by 14.5 ft deep. The sill was constructed on top of a rock base at -52 ft Mean Lower Low Water (MLLW). The crest elevation of the sill is -37.6 ft MLLW. A 9.4 ft-high portion of the sill is to be removed lowering the maximum crest elevation to -47 feet MLLW.

Sediments may need to be cleared from around the sill to allow access to the structure. At this time, DMMA Dayson Island is not expected to be utilized for the disposal of dredged material for this project. The Department shall be notified prior to disposal should use of the DMMA be required.

The sill is heavily reinforced with steel bars. All concrete and rebar from the sill, and any *in situ* rock removed from the slipway, shall be disposed of at an off-site location and shall not be placed into a DMMA. Safe navigation into and out of MCSF-BI shall be maintained throughout the sill removal operations. The Contractor shall use a diamond wire saw to cut out the submerged concrete sill and rebar. Blasting is prohibited. The site was most recently toured by DEP staff on August 16, 2018.

This letter does not relieve you from the responsibility of obtaining other permits (Federal, State, or local) that may be required for the project. Authorized activities are depicted on the attached plans.

EXECUTION AND CLERKING
Executed in Jacksonville, Florida.
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Sincerely,

Thomas G. Kallemeyn
Permitting Program Administrator

TGK:kp

Enclosures:
Section 403.813(3), Florida Statutes, and Chapter 32-330.051(7)(g), FAC
Standard Manatee Conditions for In-Water Work
Aerial & Plans, 11 pages

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this document and all attachments were sent on the filing date below to the following listed persons:

Tom Kallemeyn, FDEP NED
Kim Pearce, FDEP NED

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk

December 13, 2019
Date

62-330.051 Exempt Activities.

The activities meeting the limitations and restrictions below are exempt from permitting. However, if located in, on, or over state-owned submerged lands, they are subject to a separate authorization under chapters 253 and 258, F.S., as applicable.

(7) Maintenance and Restoration –

(g) Port dredging under section 403.813(3), F.S.

Rulemaking Authority 373.026(7), 373.043, 373.4131, 373.4145, 403.805(1) FS. Law Implemented 373.406, 373.4131, 373.4145, 373.415, 403.813(1) FS. History–New 10-1-13, Amended 6-1-18.

Part V Chapter 403

403.813 Permits issued at district centers; exceptions.—

(3) A permit is not required under this chapter, chapter 373, chapter 61-691, Laws of Florida, or chapter 25214 or chapter 25270, 1949, Laws of Florida, for maintenance dredging conducted under this section by the seaports of Jacksonville, Port Canaveral, Fort Pierce, Palm Beach, Port Everglades, Miami, Port Manatee, St. Petersburg, Tampa, Port St. Joe, Panama City, Pensacola, Key West, and Fernandina or by inland navigation districts if the dredging to be performed is no more than is necessary to restore previously dredged areas to original design specifications or configurations, previously undisturbed natural areas are not significantly impacted, and the work conducted does not violate the protections for manatees under s. 379.2431(2)(d). In addition:

(a) A mixing zone for turbidity is granted within a 150-meter radius from the point of dredging while dredging is ongoing, except that the mixing zone may not extend into areas supporting wetland communities, submerged aquatic vegetation, or hardbottom communities.

(b) The discharge of the return water from the site used for the disposal of dredged material shall be allowed only if such discharge does not result in a violation of water quality standards in the receiving waters. The return-water discharge into receiving waters shall be granted a mixing zone for turbidity within a 150-meter radius from the point of discharge into the receiving waters during and immediately after the dredging, except that the mixing zone may not extend into areas supporting wetland communities, submerged aquatic vegetation, or hardbottom communities. Ditches, pipes, and similar types of linear conveyances may not be considered receiving waters for the purposes of this paragraph.

(c) The state may not exact a charge for material that this subsection allows a public port or an inland navigation district to remove. In addition, consent to use any sovereignty submerged lands pursuant to this section is hereby granted.

(d) The use of flocculants at the site used for disposal of the dredged material is allowed if the use, including supporting documentation, is coordinated in advance with the department and the department has determined that the use is not harmful to water resources.

(e) The spoil material from maintenance dredging may be deposited in a self-contained, upland disposal site. The site is not required to be permitted if:

1. The site exists as of January 1, 2011;
2. A professional engineer certifies that the site has been designed in accordance with generally accepted engineering standards for such disposal sites;
3. The site has adequate capacity to receive and retain the dredged material; and
4. The site has operating and maintenance procedures established that allow for discharge of return flow of water and to prevent the escape of the spoil material into the waters of the state.

(f) The department must be notified at least 30 days before the commencement of maintenance dredging. The notice shall include, if applicable, the professional engineer certification required by paragraph (e).
(g) This subsection does not prohibit maintenance dredging of areas where the loss of original design function and constructed configuration has been caused by a storm event, provided that the dredging is performed as soon as practical after the storm event. Maintenance dredging that commences within 3 years after the storm event shall be presumed to satisfy this provision. If more than 3 years are needed to commence the maintenance dredging after the storm event, a request for a specific time extension to perform the maintenance dredging shall be submitted to the department, prior to the end of the 3-year period, accompanied by a statement, including supporting documentation, demonstrating that contractors are not available or that additional time is needed to obtain authorization for the maintenance dredging from the United States Army Corps of Engineers.

History.—s. 7, ch. 75-22; s. 143, ch. 77-104; s. 4, ch. 78-98; s. 1, ch. 78-146; s. 86, ch. 79-65; s. 1, ch. 80-44; s. 8, ch. 80-66; s. 3, ch. 82-80; s. 6, ch. 82-185; s. 65, ch. 83-218; s. 69, ch. 83-310; s. 43, ch. 84-338; s. 39, ch. 85-55; s. 12, ch. 86-138; s. 44, ch. 86-186; ss. 1, 3, ch. 89-324; s. 4, ch. 96-238; s. 3, ch. 97-22; s. 3, ch. 98-131; s. 163, ch. 99-8; s. 1, ch. 2000-145; s. 1, ch. 2002-164; s. 4, ch. 2002-253; s. 1, ch. 2004-16; s. 46, ch. 2006-1; s. 12, ch. 2006-220; s. 8, ch. 2006-309; s. 4, ch. 2008-40; s. 202, ch. 2008-247; s. 52, ch. 2009-21; s. 5, ch. 2010-201; s. 3, ch. 2010-208; s. 8, ch. 2011-164; s. 4, ch. 2012-65; s. 6, ch. 2012-150; s. 21, ch. 2013-92.

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.

d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com

f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

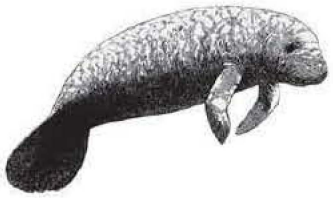
All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:



Wildlife Alert:

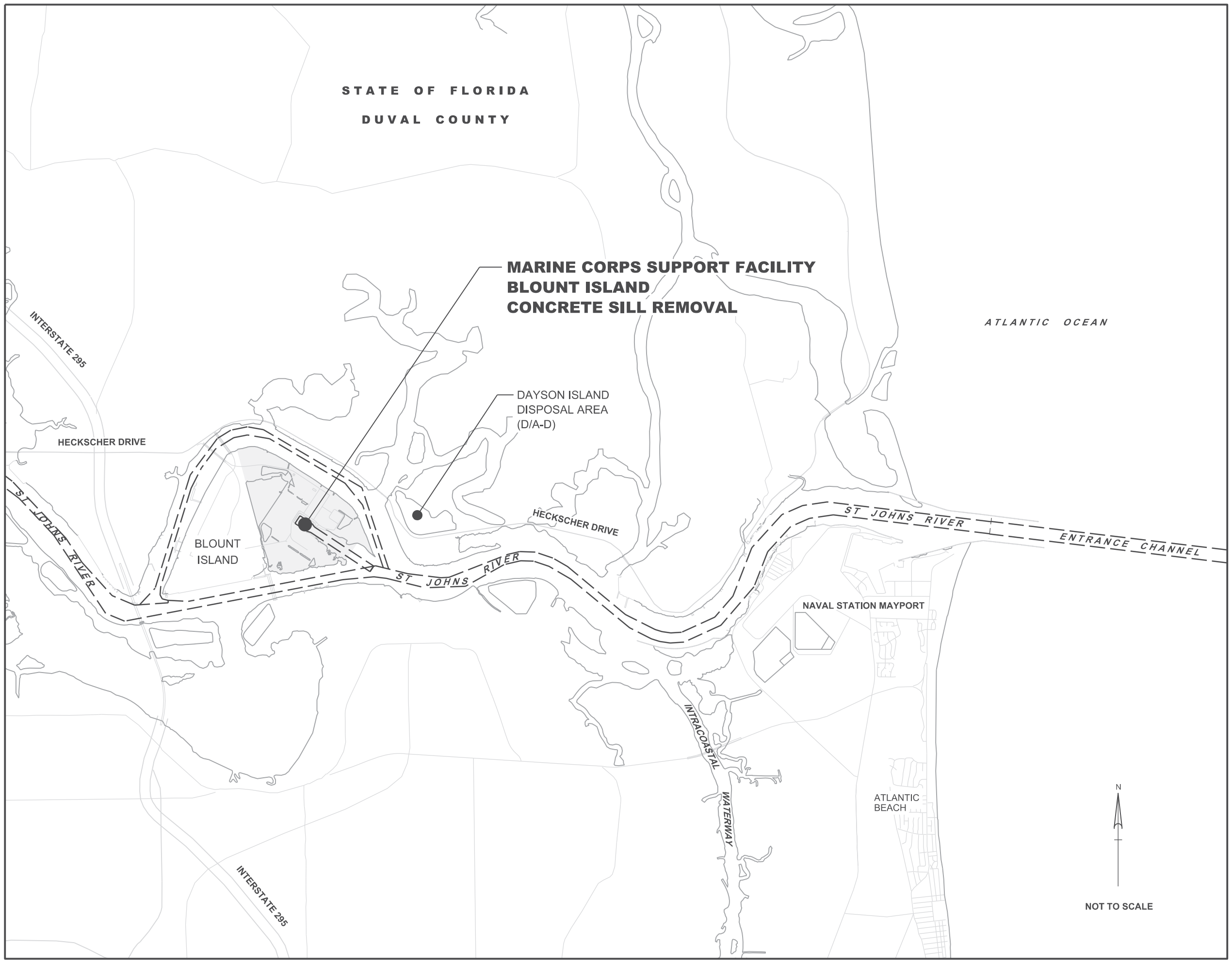
1-888-404-FWCC(3922)

cell *FWC or #FWC


New Berlin Rd
E Butler Blvd
295
105
STJO-302
9A

US Army Corps of Engineers®
JACKSONVILLE DISTRICT

MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA



SOLICITATION NO.: W912EP19R0005
CONTRACT NO.: XXXXXX-XX-X-XXXX
ISSUE DATE: MMMMMMMMM YYYY

SHEET INDEX

SHEET ID	SHEET TITLE
	GENERAL
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G-02	ABBREVIATIONS AND SYMBOLS
G-03	PROJECT OVERVIEW
G-04	CHANNEL CONTROL
	CIVIL
C-01	PLAN - STA. 00+00 THRU STA. 28+00
C-02	PLAN - STA. 28+00 THRU STA. 56+09
C-03	DETAIL - CONCRETE SILL AND CROSS SECTION - CHANNEL STA. 7+20
C-04	DETAIL - EXISTING SILL PLAN AND SECTION
C-05	DISPOSAL AREA DAYSON (D/A-D) - SITE PLAN
C-06	DISPOSAL AREA DAYSON (D/A-D) - CROSS SECTIONS

W912EP-19-C-0030
NOT A CONTRACT DOCUMENT, AND NOT DISTRIBUTED IN ACCORDANCE WITH FAR SUBPART 4.2.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: V. BOGINA
DRAWN BY: A. BURKE M. RICE
CHECKED BY: J. BERGEN
SUBMITTED BY: V. BOGINA
SIZE: ANSI E
FILE NAME: 127208-MCTSR18-GI001.dgn
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EP19R0005
CONTRACT NO.: N/A
DRAWING DATE: 6/6/2019

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

GENERAL

COVER AND SHEET INDEX

SHEET ID
G-01

TERMS AND ABBREVIATIONS

BLVD	BOULEVARD
CL	CENTERLINE
CONC	CONCRETE
D/A-D	DISPOSAL AREA - DAYSON ISLAND
DMPF	DREDGE MATERIAL PLACEMENT FACILITY
EL / ELEV	ELEVATION
FT	FOOT/FEET
MCSF	MARINE CORPS SUPPORT FACILITY
MLLW	MEAN LOWER LOW WATER
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NAD83	NORTH AMERICAN DATUM OF 1983
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NO	NUMBER
N.T.S.	NOT TO SCALE
P.I.	POINT OF INTERSECTION
RGE	RANGE
SHT	SHEET
STA	STATION
TYP	TYPICAL
USACE	UNITED STATES ARMY CORPS OF ENGINEERS
USCG	UNITED STATES COAST GUARD
VERT	VERTICAL

DMPF SURVEY NOTES

1. USACE DATABASE SURVEY NO. 18-272.

2. SURVEY WAS PERFORMED BY SURVTECH SOLUTIONS, INC., BETWEEN NOVEMBER 16 AND DECEMBER 20, 2018.

3. HORIZONTAL COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983, REALIZATION OF 2011, NAD83(2011), STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE.

4. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

5. ALL POSITIONS AND ELEVATIONS ARE EXPRESSED IN THE UNITS OF U.S. SURVEY FEET.

6. THE WORK CONSISTED OF CROSS SECTIONS AT 100-FOOT INTERVAL OVER THE LEVEE, TOPOGRAPHIC DATA ON A 100-FOOT GRID OVER THE IMPOUNDMENT AREA AND A BOUNDARY SURVEY OF PARCEL B DAYSON SPOIL SITE.

7. THE TOPOGRAPHIC DATA WAS COLLECTED UTILIZING A CHAMPION TKO (TRIMBLE R-8 GPS BOARDS), DUAL FREQUENCY SYSTEMS, AND AS NEEDED, A SOKKIA 330R 3"INSTRUMENT. TOPOGRAPHIC INFORMATION WAS COLLECTED IN AREAS WITHOUT CANOPY USING THE RTK (REAL TIME KINEMATIC) GPS. IN AREAS WHERE THERE WAS CANOPY, THE SOKKIA 330R TOTAL STATION WAS UTILIZED TO COLLECT TOPOGRAPHIC INFORMATION. SURVTECH ESTABLISHED TEMPORARY CONTROL ON THE BERM UTILIZING RTK (REAL TIME KINEMATIC) GPS, BY OBSERVING 180 EPOCHS AT TWO INTERVALS, SEPARATED BY A MINIMUM OF SIX (6) HOURS.

8. QUALITY CONTROL CHECKS WERE PERFORMED AT MONUMENT CONTROL POINTS AT THE BEGINNING, PERIODICALLY IN BETWEEN, AND AT THE END OF EACH RTK SESSION.

9. THE INFORMATION DEPICTED ON THESE DRAWINGS REPRESENTS THE RESULT OF THE SURVEYS MADE ON THE DATES INDICATED ABOVE AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS AT THAT TIME.

10. UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS SURVEY IS NOT VALID.

11. ADDITIONS OR DELETIONS TO THE SURVEY MAPS OR REPORT BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

12. CERTIFICATION - THIS IS TO CERTIFY THAT THIS REPORT AND SURVEY HAVE BEEN PERFORMED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS SET FORTH BY THE FLORIDA BOARD OF SURVEYORS AND MAPPERS PER FLORIDA ADMINISTRATIVE CODE 5J-17. THE MAP ASSOCIATED WITH THIS REPORT IS BY REFERENCE MADE A PART HEREOF AND THE MAP IS NOT VALID WITHOUT THIS REPORT AND VICE VERSA.
DAVID J. O'BRIEN, JR. PROFESSIONAL SURVEYOR & MAPPER, NO. 5925.
NOT VALID UNLESS SIGNED AND SEALED BY A FLORIDA LICENSED SURVEYOR.

GENERAL SYMBOLOGY

LEGEND - NAVIGATION

- PIPELINE ROUTE
- PROJECT CHANNEL
- SILL TO BE REMOVED
- 49.5 — ELEVATION AND LOCATION
- UPLAND DISPOSAL AREA
- GRASS OR MARSH AREA
- 62 — CHANNEL LIMITS
- VI — CHANNEL PI POINTS
- HORIZONTAL AND VERTICAL CONTROL MONUMENT
- VERTICAL / TIDAL CALIBRATION CONTROL POINT
- PID AF31 — MONUMENT FALLS OFF THE PAGE IN THE DIRECTION OF ARROW
- STAGING / UNLOADING AREA
- HAUL ROUTE
- CF — CHAIN LINK FENCE

LEGEND - GEOTECHNICAL BORINGS

- CB-JH99-22 — CORE BORING IDENTIFIER
- P-JH99-22 — PROBE IDENTIFIER
- GS-JH99-22 — GRAB SAMPLE IDENTIFIER
- VB-JH99-22 — VIBRACORE BORING IDENTIFIER

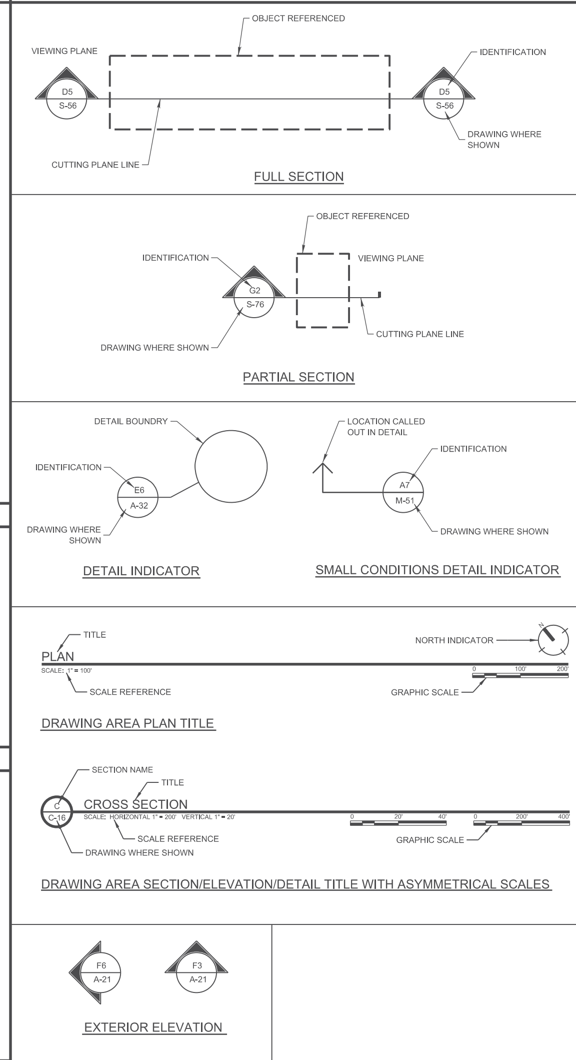
LEGEND - AIDS TO NAVIGATION

- LIGHTED BEACON
- GREEN DAYBEACON
- RED DAYBEACON
- RED LIGHTED BUOY / GREEN LIGHTED BUOY
- C — CAN BUOY
- N — NUN BUOY
- NO WAKE — SIGN

MATERIAL SYMBOL KEY

- CAST-IN-PLACE CONCRETE (CONCST)
- PRECAST CONCRETE (CONCLW)
- COMPACTED FILL (EARTH)
- DRAINAGE BLANKET /FDM (GRVCRE)
- BEDDING MATERIAL (GRVSCL)
- RIPRAP (RIPRAP)
- FILTER SAND (TERRZO)
- GRAVEL (GRAVEL)
- COBBLES (POROUS)
- EXISITNG SOIL
- VEGETATION

REFERENCE SYMBOL KEY



DISCIPLINE DESIGNATOR

G - GENERAL
V - SURVEY/MAPPING
B - GEOTECHNICAL
C - CIVIL
S - STRUCTURAL
A - ARCHITECTURAL
Q - EQUIPMENT
F - FIRE PROTECTION
M - MECHANICAL
E - ELECTRICAL
T - TELECOMMUNICATIONS

GENERAL NOTES

1. THIS PROJECT WAS DESIGNED BY THE JACKSONVILLE DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS THAT APPEAR ON THESE PROJECT DOCUMENTS ARE WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

2. ALL PLANIMETRIC LAND FEATURES DEPICTED ON THESE PLANS ARE FOR INFORMATION ONLY AND WERE NOT PHYSICALLY LOCATED BY SURVEY UNLESS OTHERWISE INDICATED. NOT ALL EXISTING STRUCTURES ARE INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL SUCH FEATURES THAT HE/SHE DETERMINES ARE NECESSARY FOR OR AFFECT THE PERFORMANCE OF CONSTRUCTION OF THIS PROJECT.

3. THE AERIAL PHOTOGRAPHY SHOWN ON THESE DRAWINGS ARE FOR GENERAL INFORMATION ONLY AND ARE NOT TO BE USED FOR MEASUREMENTS (DATED 2017).

4. THESE LEGENDS ARE COMPOSED OF STANDARD SYMBOLS AND ARE PERTINENT TO THE CONDITIONS ON THIS SET OF DRAWINGS TO THE EXTENT APPLICABLE.

5. ADDITIONAL LEGENDS AND/OR ABBREVIATIONS MAY APPEAR IN THIS SET OF DRAWINGS TO INDICATE SPECIFIC CONDITIONS IN LIEU OF SYMBOLS SHOWN ON THIS SHEET.

6. THE JACKSONVILLE HARBOR CHANNEL LIMIT LINE IS THE EASTERN LIMIT OF PROJECT.

CHANNEL SURVEY NOTES

SURVEY NOTES:

1. REFER TO SURVEY NO. 19-073.

2. 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 BENCHMARK ASSOCIATED WITH THE TIDE GAUGE SITE SPECIFIED BELOW:

   NOAA TIDAL STATION "872-0221", FULTON, ST. JOHNS RIVER FOR ALL CUTS

3. TIDAL REDUCTIONS WERE OBTAINED USING REAL-TIME KINEMATIC (RTK) GPS AND UTILIZING A HYPACK KINEMATIC TIDAL DATUM (KTD) MODEL, TITLED CAMDENGA-NASSAU-DUVAL-STJOHNS-FLAGLER_01FEB2011.KTD.

4. ALL ELEVATIONS ARE BELOW THE CHART DATUM UNLESS PRECEDED BY A (+) SIGN.

5. PLANE COORDINATES ARE BASED ON THE TRANSVERSE MERCATOR PROJECTION FOR THE EAST ZONE OF FLORIDA AND REFERENCED TO THE NORTH AMERICAN DATUM OF 1983.

6. ALL STATIONING REFERS TO THE CENTERLINE OF THE CHANNEL.

7. THIS SURVEY WAS PERFORMED USING REAL-TIME KINEMATIC GPS POSITIONING WITH THE FOLLOWING REFERENCE BASE LOCATION:

   REFERENCE BASE LOCATED AT "BIMT-101" (OPUS PID: BBBX61)

   TIDE STAFF SET FROM "BIMT-101" (OPUS PID: BBBX61)

8. VERTICAL MEASUREMENTS WERE MADE USING A R2SONIC 2024 MULTI-BEAM SYSTEM OPERATING AT 230 KHZ AND A ROSS MODEL 835C SMARTSOUNDER WITH A DUAL-FREQUENCY (28/200KHZ) SINGLE-BEAM TRANSDUCER. DEPTHS OUTSIDE THE SECURITY GATE ARE SHOWN IN HIGH FREQUENCY. DEPTHS INSIDE SECURITY GATE ARE SHOWN IN LOW FREQUENCY.

VESSEL	DATE OF SURVEY	AREA
SB-46	18 DEC 2018	STA 0+00 TO STA 12+00
SB-46	12 JAN 2019	STA 12+00 TO STA 57+00

9. NAVAIDS WERE NOT LOCATED FOR THIS SURVEY. NAVAIDS SHOWN COLLECTED DURING SURVEY 18-171.

10. THE INFORMATION DEPICTED ON THESE MAPS REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.THIS CHART IS NOT TO BE USED FOR NAVIGATION.

11. SURVEY ACCURACY STANDARDS, QUALITY CONTROL, AND QUALITY ASSURANCE REQUIREMENTS WERE FOLLOWED DURING THIS SURVEY IN ACCORDANCE WITH USACE EM 1110-2-1003, HYDROGRAPHIC SURVEYING, 30 NOV 2013.

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

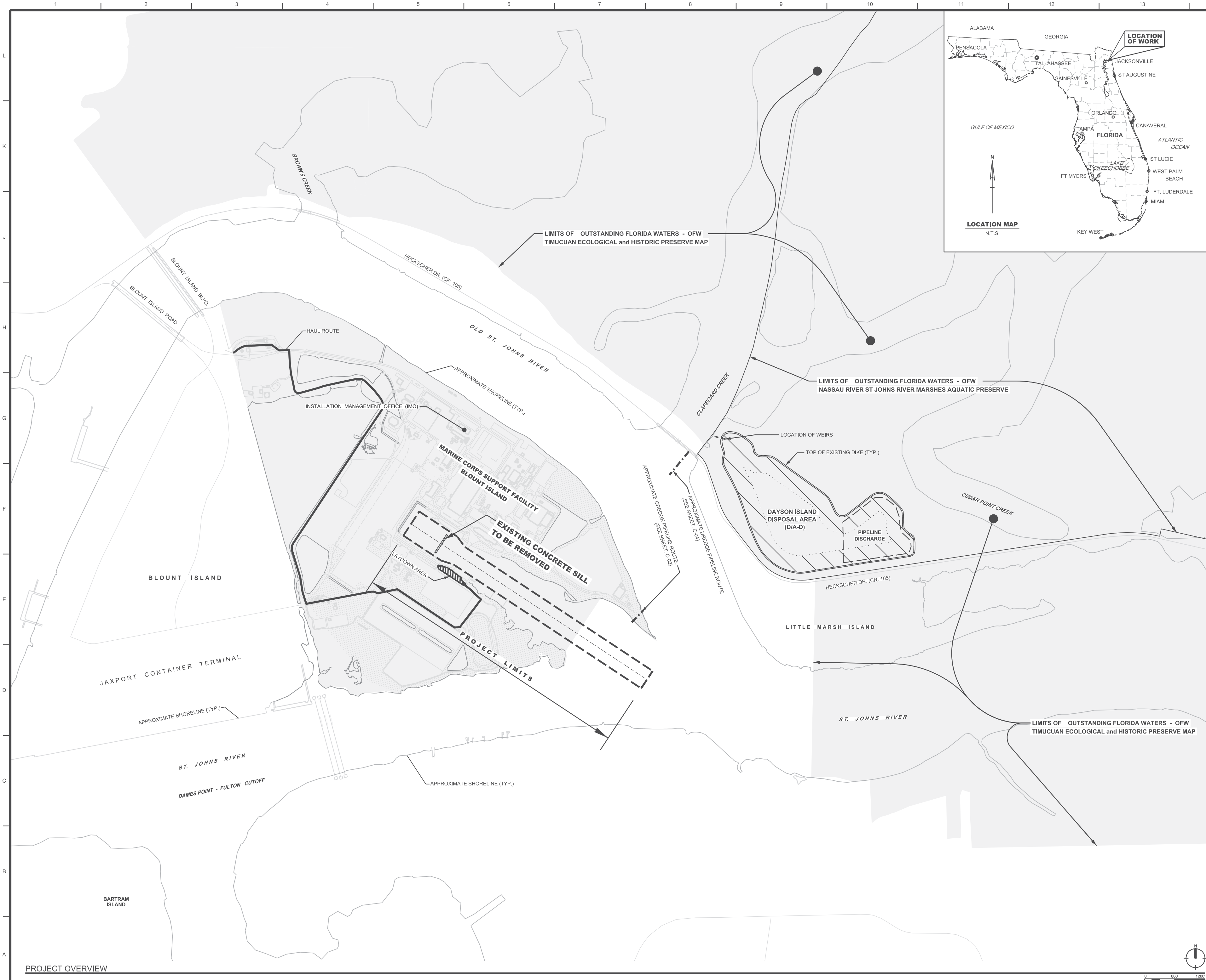
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EP19R0005
CONTRACT NO.: N/A
DRAWING DATE: 6/6/2019
DESIGNED BY: V. BOGINA
DRAWN BY: A. BURKE M. RICE
CHECKED BY: J. BERGEN
SUBMITTED BY: V. BOGINA
SIZE: ANSI E
FILE NAME:

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

GENERAL
ABBREVIATIONS AND SYMBOLS

SHEET ID
G-02


LIMITS OF OUTSTANDING FLORIDA WATERS - OFW
TIMUCUAN ECOLOGICAL and HISTORIC PRESERVE MAP
BROWN'S CREEK
HECKSCHER DR. (CR. 105)
BLOUNT ISLAND BLVD
BLOUNT ISLAND ROAD
OLD ST. JOHNS RIVER
HAUL ROUTE
APPROXIMATE SHORELINE (TYP.)
INSTALLATION MANAGEMENT OFFICE (IMO)
MARINE CORPS SUPPORT FACILITY
BLOUNT ISLAND
EXISTING CONCRETE SILL
TO BE REMOVED
LAYDOWN AREA
PROJECT LIMITS
BLOUNT ISLAND
JAXPORT CONTAINER TERMINAL
APPROXIMATE SHORELINE (TYP.)
ST. JOHNS RIVER
DAMES POINT - FULTON CUTOFF
APPROXIMATE SHORELINE (TYP.)
BARTRAM
ISLAND
CLAPBOARD CREEK
APPROXIMATE DREDGE PIPELINE ROUTE
(SEE SHEET C-02)
APPROXIMATE DREDGE PIPELINE ROUTE
(SEE SHEET C-04)
LIMITS OF OUTSTANDING FLORIDA WATERS - OFW
NASSAU RIVER ST JOHNS RIVER MARSHES AQUATIC PRESERVE
LOCATION OF WEIRS
TOP OF EXISTING DIKE (TYP.)
DAYSON ISLAND
DISPOSAL AREA
(D/A-D)
PIPELINE
DISCHARGE
CEDAR POINT CREEK
HECKSCHER DR. (CR. 105)
LITTLE MARSH ISLAND
ST. JOHNS RIVER
LIMITS OF OUTSTANDING FLORIDA WATERS - OFW
TIMUCUAN ECOLOGICAL and HISTORIC PRESERVE MAP
ALABAMA
GEORGIA
LOCATION
OF WORK
PENSACOLA
TALLAHASSEE
JACKSONVILLE
GAINESVILLE
ST AUGUSTINE
ORLANDO
GULF OF MEXICO
TAMPA
FLORIDA
CANAVERAL
ATLANTIC
OCEAN
ST LUCIE
LAKE
OKEECHOBEE
WEST PALM
BEACH
FT MYERS
FT. LUDERDALE
MIAMI
N
LOCATION MAP
N.T.S.
KEY WEST
N
0
600'
1200'

PROJECT OVERVIEW

US Army Corps of Engineers®

DESIGNED BY: V. BOGINA	ISSUE DATE: MMMMMMMMM YYYY
DRAWN BY: A. BURKE M. RICE	SOLICITATION NO.: W912EP19R0005
CHECKED BY: J. BERGEN	CONTRACT NO.: N/A
SUBMITTED BY: V. BOGINA	DRAWING DATE: 6/6/2019
SIZE: ANSI E	FILE NAME: 127208-MCTSR18-GI003.dgn

MARK | DESCRIPTION | DATE

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

GENERAL
PROJECT OVERVIEW

SHEET ID
G-03

CHANNEL CONTROL DATA NOTES:

MARINE CORPS SUPPORT FACILITY CHANNEL - FRAMEWORK REPORT
REVISION 22 AUGUST 2016

HORIZONTAL REFERENCE SYSTEM:
THE HORIZONTAL REFERENCE DATUM FOR THIS PROJECT IS THE NORTH AMERICAN DATUM OF 1983 (NAD83), BASED ON THE CURRENT VERSION OF THE NOAA NATIONAL SPATIAL REFERENCE SYSTEM (NSRS). GRID COORDINATES ARE SHOWN IN THE FLORIDA STATE PLANE COORDINATE SYSTEM (SPCS)EAST ZONE (0901). MEASUREMENT UNITS ARE THE U.S. SURVEY FOOT. CHANNEL STATIONING AND OFFSET COORDINATES ARE RELATIVE TO THE INDICATED CHANNEL BASELINE FOR EACH CHANNEL REACH. UNLESS OTHERWISE INDICATED, CHANNEL WIDTHS AND LIMITS CONFORM TO THE AUTHORIZED PROJECT DIMENSIONS, AS SHOWN IN THE MASTER CHANNEL FRAMEWORK DESIGN FILE FOR THIS PROJECT.

VERTICAL REFERENCE SYSTEM:
THE TIDAL REFERENCE GRADE FOR THIS PROJECT IS MEAN LOWER LOW WATER (MLLW), BASED ON THE NOAA 1983-2001 NATIONAL TIDAL DATUM EPOCH. ORTHOMETRIC HEIGHTS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

TIDAL MODEL:
THE NAVD88-MLLW RELATIONSHIP FOR THE PROJECT IS DERIVED FROM THE NOAA VDATUM HYDRODYNAMIC TIDAL MODEL VERSION 3, AND LOCAL TIDE STATION DATA. THIS MODEL WAS USED TO CONSTRUCT A KINEMATIC TIDAL DATUM GRID FILE (KTD) FOR USE BY THE HYDROGRAPHIC SOFTWARE FOR REAL TIME VERTICAL DATUM CORRECTIONS. THOUGH DERIVED FROM THE VDATUM MODEL, THE KTD FILE MAY CONTAIN EDITS OR ADDITIONS NOT FOUND IN THE VDATUM MODEL. THESE EDITS ARE A RESULT OF EITHER OMISSIONS IN THE ORIGINAL VDATUM COVERAGE, OR GROSS DISAGREEMENTS WITH THE PUBLISHED TIDE GAUGE DATUM VALUES AT DISCREET POINTS ALONG A PARTICULAR REACH OF A NAVIGATION PROJECT. AS A RESULT OF THIS, THE KTD FILE AND THE VDATUM MODEL FILE ARE NOT TO BE CONSIDERED EQUALIVALENT.

THE KTD FILE REFERENCED ABOVE IS USED TO CORRECT OBSERVED ORTHOMETRIC HEIGHTS TO THE MLLW REFERENCE DATUM. ANY THIRD PARTY ATTEMPT TO DUPLICATE A PROJECT SURVEY SHALL OBTAIN THE KINEMATIC TIDE DATUM MODEL (KTD FILE), REFERENCED IN THE NOTES ACCOMPANYING EACH SURVEY FROM THE JACKSONVILLE DISTRICT. REFER TO SURVEY NOTES FOR THE KTD FILE NAME.

PRIMARY PROJECT CONTROL POINTS (PPCP):

THE PPCP AND TIDE CALIBRATION SITE FOR THIS PROJECT IS LISTED BELOW. REFER TO THE SURVEY ACCOMPANYING THESE PLANS AND SPECIFICATIONS FOR THE POSITIONS OF THESE CONTROL MARKS. THE POSITIONS SHOWN ON THAT SURVEY MUST BE USED DURING CONSTRUCTION, OR IF AN ATTEMPT TO REPRODUCE SAID SURVEY IS DESIRED.

PPCP COORDINATE AND ELEVATION DATA ARE PUBLISHED BELOW, AND SHOULD BE VERIFIED FOR CHANGES AS COMPARED TO THE CURRENT NOAA NATIONAL SPATIAL REFERENCE SYSTEM (NSRS) NGSIDB, OPUS/DB, AND/OR NOAA CO-OPS NWLON DATABASES, BASED ON THE PERMANENT IDENTIFIER (PID) OR GAGE STATION ID SHOWN FOR THE PPCP. IF DIFFERENCES ARE FOUND TO EXIST, ALERT USACE PERSONNEL FOR FURTHER DIRECTION.

NSRS PPCP	NGSIDB/OPUS PID	CHANNEL REACH
BIMT-101	OPUS PID: BBBX61	ENTIRE REACH

PPCP: MLLW CALIBRATION GAGES	NOAA STATION ID
FULTON, ST. JOHNS RIVER	872 0221

REFER TO THE NOTES OF THE LATEST FIELD SURVEY FOR THE SPECIFIC SURVEY CONTROL AND CALIBRATION TIDE GAUGE SITES CURRENTLY EMPLOYED BY OPERATIONS DIVISION USED TO CORRECT OBSERVED GPS DERIVED ELEVATIONS TO HEIGHTS RELATIVE TO MLLW.

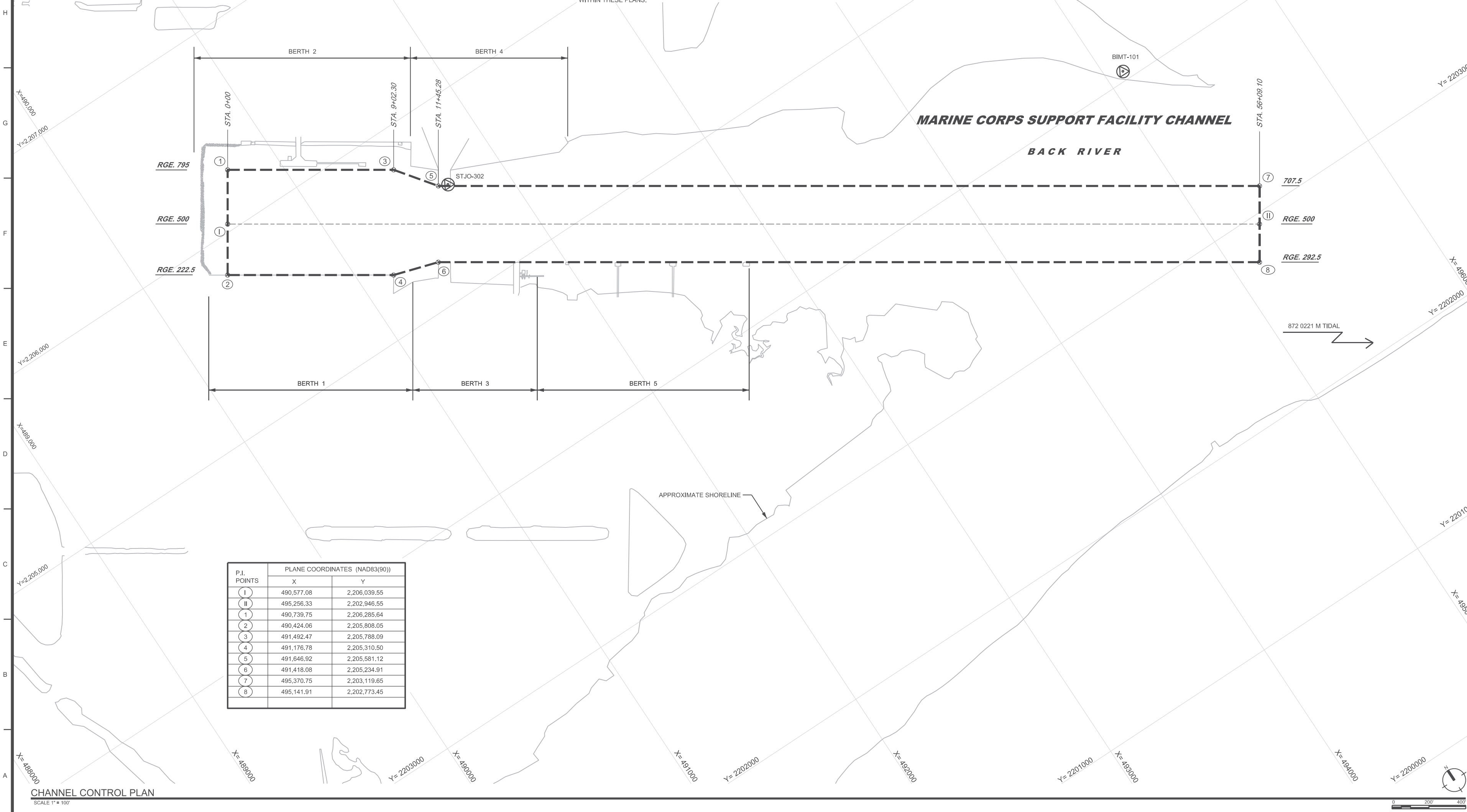
CONSTRUCTION SURVEY POSITIONING CRITERIA:
HORIZONTAL POSITIONING AND WATER SURFACE ELEVATION MEASUREMENTS PERFORMED UTILIZING REAL-TIME KINEMATIC (RTK) OR REAL-TIME NETWORK (RTN) GPS OBSERVATIONS ARE REFERENCED TO (AND/OR SITE-CALIBRATED TO) THE PPCPs WITHIN THE SURVEY REPORT, SURVEY NOTES AND AS TABULATED WITHIN THESE PLANS.

REFER TO THE ACCOMPANYING "SURVEY NOTES"FOR THE SURVEY CONTROL MARK POSITIONS, TIDAL CALIBRATION BENCH MARKS, "KTD"FILE NAME AND GEOID MODEL ASSOCIATED WITH THE DATA SHOWN BY THE HYDROGRAPHIC SURVEY FURNISHED WITHIN THESE PLANS.

SURVEY CONTROL (NAD83)

DESIGNATION	PID	NORTHING	EASTING	NAVD88	MLLW
BIMT-101	BBBX61	2,204,048.81	495,095.06	12.19	14.51
872 0221 M TIDAL	DH8953	2,201,610 SC	496,070 SC	6.82	9.18
STJO-302	BBCB02	2,205,559.14	491,694.95	8.07	N/A

NOTE: "SC" INDICATES A SCALED COORDINATE NOT INTENDED FOR USE AS SURVEY CONTROL. ONLY USE THIS COORDINATE AS AN AID IN FIELD LOCATION OF THE MONUMENT.



P.I. POINTS	PLANE COORDINATES (NAD83(90))	
	X	Y
I	490,577.08	2,206,039.55
II	495,256.33	2,202,946.55
1	490,739.75	2,206,285.64
2	490,424.06	2,205,808.05
3	491,492.47	2,205,788.09
4	491,176.78	2,205,310.50
5	491,646.92	2,205,581.12
6	491,418.08	2,205,234.91
7	495,370.75	2,203,119.65
8	495,141.91	2,202,773.45

CHANNEL CONTROL PLAN
SCALE 1" = 100'

US Army Corps of Engineers

DESIGNED BY: V. BOGINA
DRAWN BY: A. BURKE M. RICE
CHECKED BY: J. BERGEN
SUBMITTED BY: V. BOGINA
SIZE: ANSI E
ISSUE DATE: MMMMMMMMM YYYY
SOLICITATION NO.: W912EP19R0005
CONTRACT NO.: N/A
DRAWING DATE: 6/6/2019
FILE NAME: DRAWING NAME HERE

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

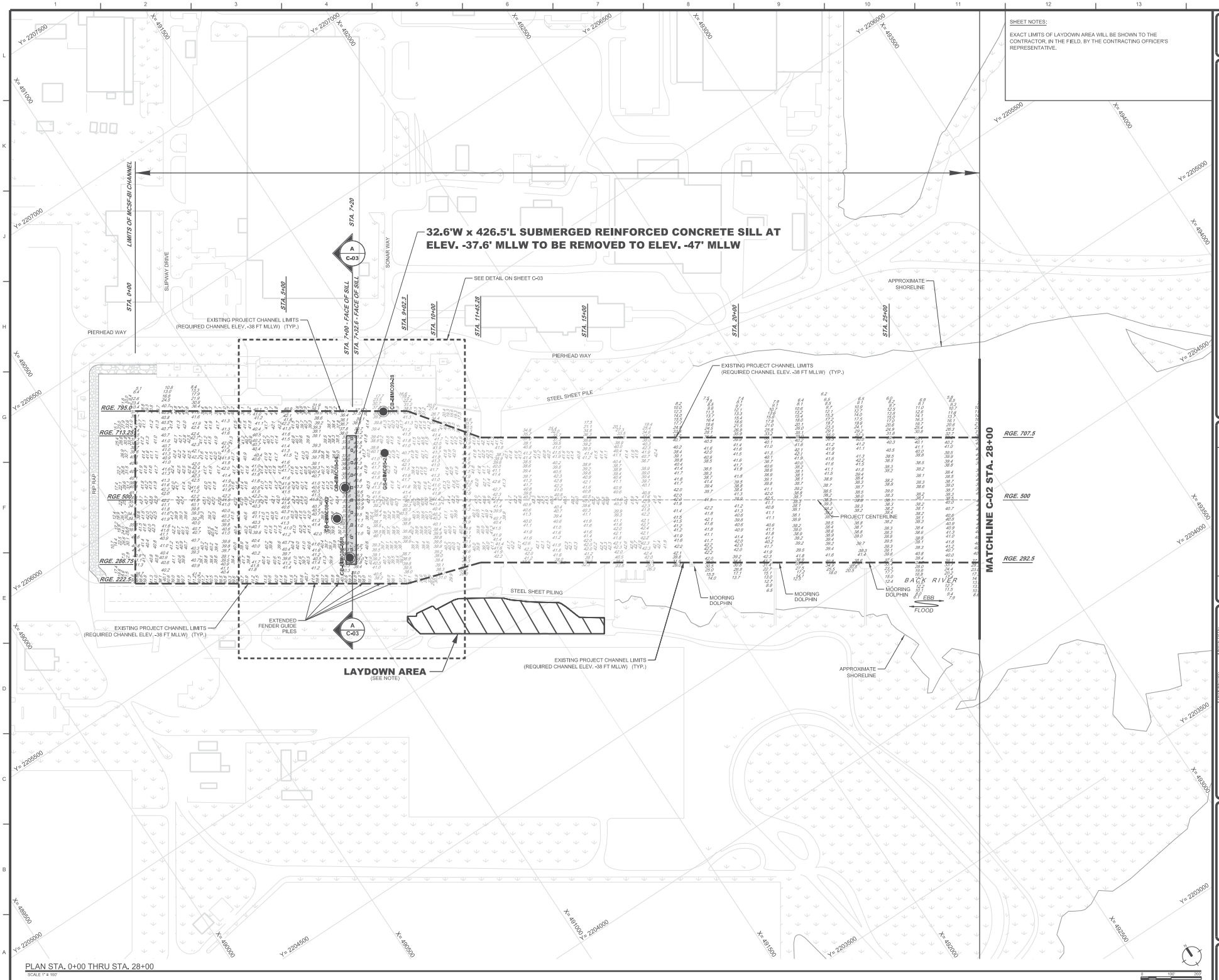
MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

GENERAL

CHANNEL CONTROL

SHEET ID
G-04

pw:\\COE-SAJPWP02JAX.saj.ds.usace.army.mil:SAJPW\Documents\Navigation Projects\Marine Corps Terminal\USMC Terminal Concrete Sill Removal\080 - Plans\01 General\G-04



PLAN STA. 0+00 THRU STA. 28+00

SCALE 1" = 100'

US Army Corps of Engineers

NO.	DESCRIPTION	DATE

DESIGNED BY:	
DRAWN BY:	M. AMES
CHECKED BY:	
QC REVIEW BY:	
APPROVED BY:	
DATE:	7/27/2021

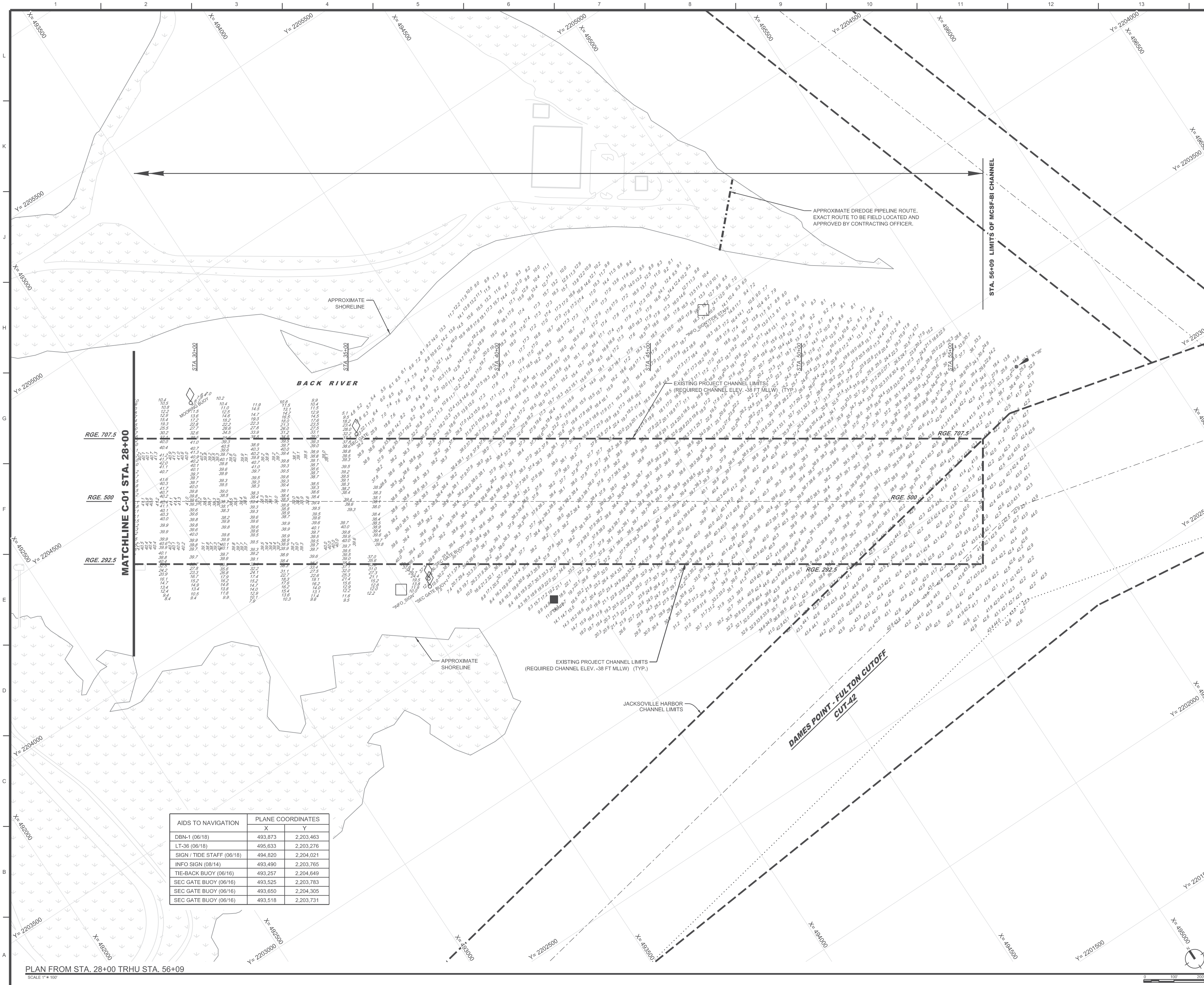
U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE, FL 32207

MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

CIVIL
PLAN
STA. 0+00 THRU STA. 28+00

SHEET ID
C-01

pw:\\COE-SAJPWP02JAX.saj.ds.usace.army.mil:SAJPW\Documents\Navigation Projects\Marine Corps Terminal\USMC Terminal Concrete Sill Removal\080 - Plans\05 Civil\C-01



AIDS TO NAVIGATION	PLANE COORDINATES	
	X	Y
DBN-1 (06/18)	493,873	2,203,463
LT-36 (06/18)	495,633	2,203,276
SIGN / TIDE STAFF (06/18)	494,820	2,204,021
INFO SIGN (08/14)	493,490	2,203,765
TIE-BACK BUOY (06/16)	493,257	2,204,649
SEC GATE BUOY (06/16)	493,525	2,203,783
SEC GATE BUOY (06/16)	493,650	2,204,305
SEC GATE BUOY (06/16)	493,518	2,203,731

PLAN FROM STA. 28+00 TRHU STA. 56+09

SCALE 1" = 100'

US Army Corps of Engineers

DESIGNED BY: V. BOGINA
DRAWN BY: A. BURKE M. RICE
CHECKED BY: J. BERGEN
SUBMITTED BY: V. BOGINA
SIZE: ANSI E
FILE NAME: 127208-MCTCD18-NG102PLN.dgn
ISSUE DATE: MMMMMMMM YYYY
SOLICITATION NO.: W912EP19R0005
CONTRACT NO.: N/A
DRAWING DATE: 6/6/2019

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

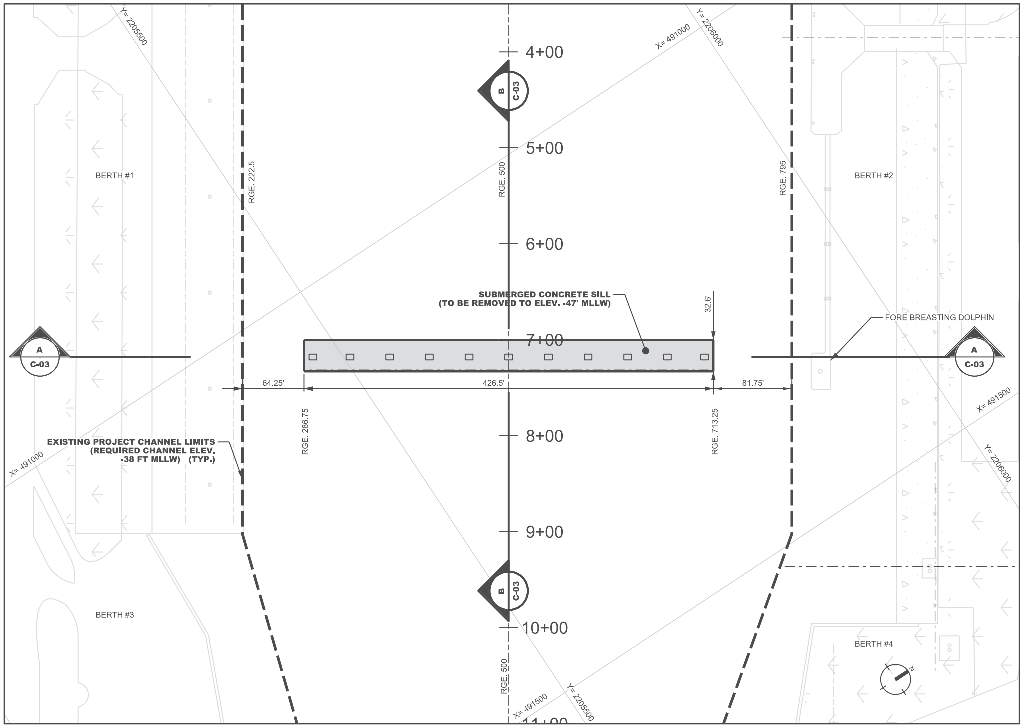
CIVIL
PLAN
STA 28+00 THRU STA. 56+09

SHEET ID
C-02

pw:\\COE-SAJPWP02JAX.saj.ds.usace.army.mil:SAJPW\Documents\Navigation Projects\Marine Corps Terminal\USMC Terminal Concrete Sill Removal\080 - Plans\05 Civil\C-02

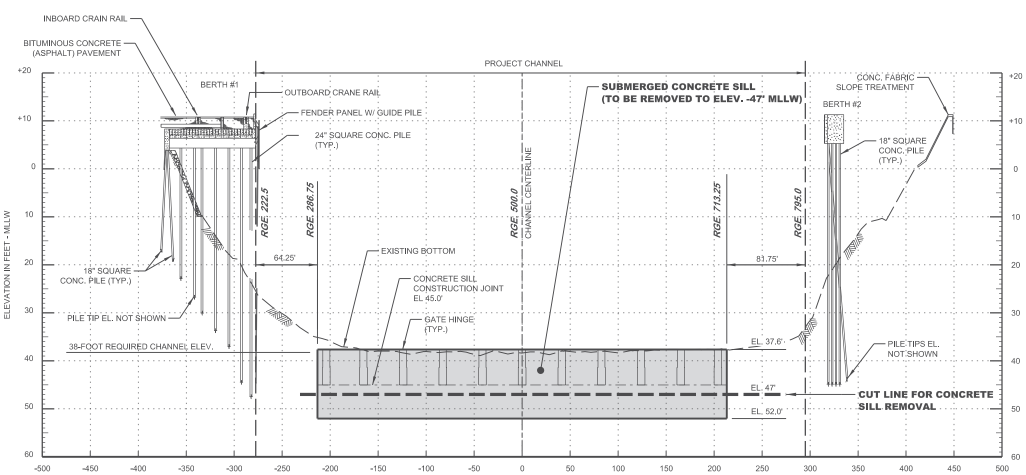
SHEET NOTES:

1. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MLLW OF 1983-2001 TIDAL EPOCH. ELEVATIONS ARE BELOW REFERENCE DATUM UNLESS PRECEDED BY A (+) SIGN.
2. SEE SPECIFICATION SECTION 35 20 23 PARAGRAPH TITLED "MAINTENANCE DREDGING AND SHOALING" FOR MORE INFORMATION.
3. DREDGING ADJACENT TO ANY STRUCTURE WILL NOT BE PERMITTED ANY CLOSER THAN 25 FEET OF THE STRUCTURES. SEE SPECIFICATION SECTION 35 20 23 PARAGRAPH TITLED "ADJACENT PROPERTY AND STRUCTURES" FOR MORE INFORMATION.



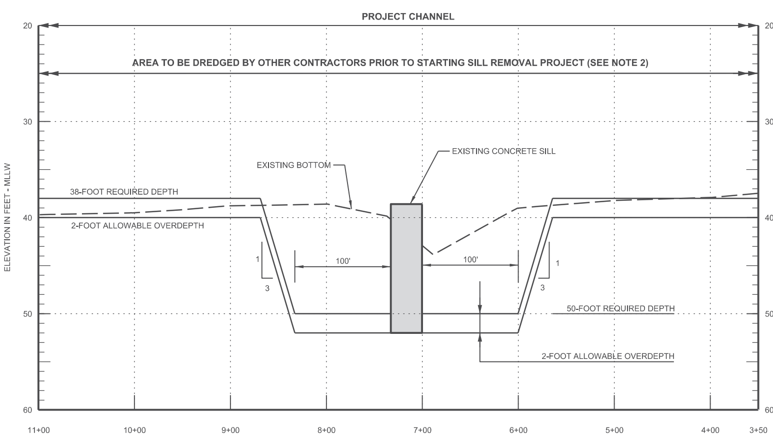
BERTH #1
BERTH #2
BERTH #3
BERTH #4
4+00
5+00
6+00
7+00
8+00
9+00
10+00
RGE. 222.5
RGE. 500
RGE. 795
RGE. 286.75
RGE. 713.25
SUBMERGED CONCRETE SILL (TO BE REMOVED TO ELEV. -47' MLLW)
FORE BREASTING DOLPHIN
EXISTING PROJECT CHANNEL LIMITS (REQUIRED CHANNEL ELEV. -38 FT MLLW) (TYP.)
64.25'
426.5'
81.75'
32.6'
X= 491000
X= 491500
Y= 2205500
Y= 2206000
A C-03
B C-03

DETAIL - PLAN VIEW - CONCRETE SILL
SCALE: 1" = 50'
HORIZONTAL: 0 50' 100'



INBOARD CRAIN RAIL
BITUMINOUS CONCRETE (ASPHALT) PAVEMENT
BERTH #1
OUTBOARD CRANE RAIL
FENDER PANEL W/ GUIDE PILE
24" SQUARE CONC. PILE (TYP.)
PROJECT CHANNEL
SUBMERGED CONCRETE SILL (TO BE REMOVED TO ELEV. -47' MLLW)
CHANNEL CENTERLINE
CONC. FABRIC SLOPE TREATMENT
BERTH #2
18" SQUARE CONC. PILE (TYP.)
RGE. 222.5
RGE. 286.75
RGE. 500.0
RGE. 713.25
RGE. 795.0
64.25'
81.75'
EXISTING BOTTOM
CONCRETE SILL CONSTRUCTION JOINT EL 45.0'
GATE HINGE (TYP.)
18" SQUARE CONC. PILE (TYP.)
PILE TIP EL. NOT SHOWN
38-FOOT REQUIRED CHANNEL ELEV.
EL. 37.6'
EL. 47'
EL. 52.0'
PILE TIPS EL. NOT SHOWN
CUT LINE FOR CONCRETE SILL REMOVAL
ELEVATION IN FEET - MLLW
DISTANCE IN FEET FROM CENTERLINE

A C-01 C-03 CHANNEL CROSS-SECTION FOR STA. 7+20
VERTICAL: 0 10' 20' HORIZONTAL: 0 50' 100'



PROJECT CHANNEL
AREA TO BE DREDGED BY OTHER CONTRACTORS PRIOR TO STARTING SILL REMOVAL PROJECT (SEE NOTE 2)
EXISTING CONCRETE SILL
EXISTING BOTTOM
38-FOOT REQUIRED DEPTH
2-FOOT ALLOWABLE OVERDEPTH
100'
100'
50-FOOT REQUIRED DEPTH
2-FOOT ALLOWABLE OVERDEPTH
ELEVATION IN FEET - MLLW
STATIONING ALONG THE CHANNEL CENTERLINE

B C-03 PROFILE OF CENTERLINE
VERTICAL 0 5' 10' HORIZONTAL 0 50' 100'

US Army Corps of Engineers

MARK	DESCRIPTION

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

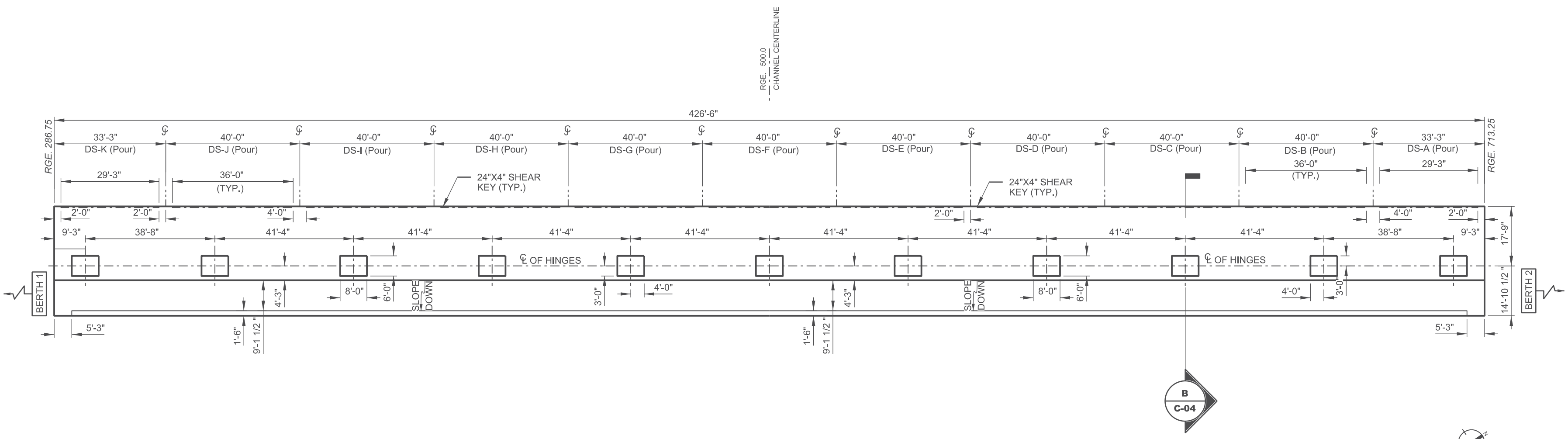
DESIGNED BY: V. BOGINA	ISSUE DATE: MMMMMMMMM YYYY	
DRAWN BY: A. BURKE M. RICE	SOLICITATION NO.: W912EP19R0005	
CHECKED BY: J. BERGEN	CONTRACT NO.: N/A	
SUBMITTED BY: V. BOGINA	DRAWING DATE: 6/6/2019	
SIZE: ANSI E	FILE NAME: 127208-MCTCD18-SC303csec.dgn	

MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

CIVIL
DETAIL - CONCRETE SILL AND CROSS SECTION
CHANNEL STA. 7+20

SHEET ID
C-03

US Army Corps of Engineers

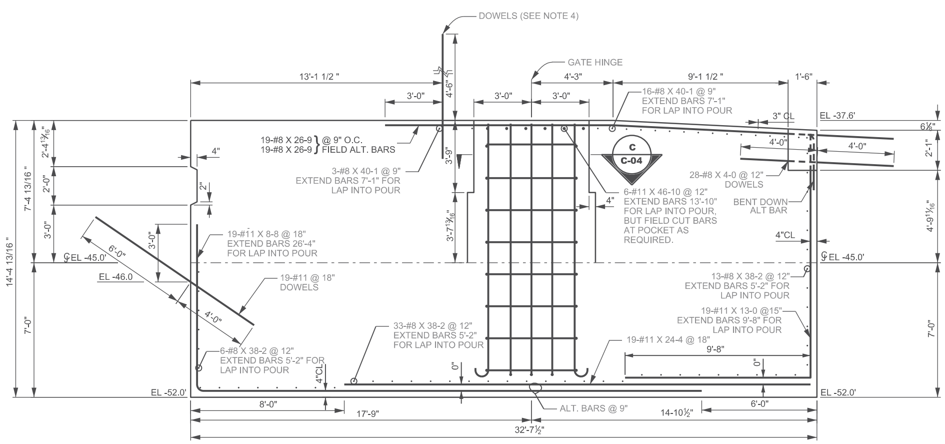


RGE. 500.0
CHANNEL CENTERLINE
426'-6"
RGE. 286.75
RGE. 713.25
33'-3"
DS-K (Pour)
40'-0"
DS-J (Pour)
DS-I (Pour)
DS-H (Pour)
DS-G (Pour)
DS-F (Pour)
DS-E (Pour)
DS-D (Pour)
DS-C (Pour)
DS-B (Pour)
DS-A (Pour)
29'-3"
36'-0"
(TYP.)
24"X4" SHEAR KEY (TYP.)
2'-0"
4'-0"
9'-3"
38'-8"
41'-4"
℄ OF HINGES
BERTH 1
BERTH 2
8'-0"
6'-0"
4'-3"
3'-0"
SLOPE DOWN
5'-3"
1'-6"
9'-1 1/2"
17'-9"
14'-10 1/2"
B
C-04

INSET - PLAN VIEW - SUBMERGED CONCRETE SILL

SEE PLAN VIEW NOTES

0 12.5' 25'



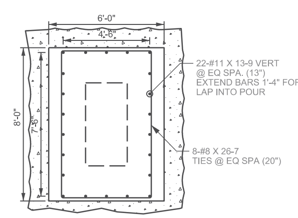
DOWELS (SEE NOTE 4)
GATE HINGE
13'-1 1/2"
4'-3"
9'-1 1/2"
1'-6"
3'-0"
3" CL
EL -37.6'
16-#8 X 40-1 @ 9"
EXTEND BARS 7'-1"
FOR LAP INTO POUR
19-#8 X 26-9 @ 9" O.C.
19-#8 X 26-9 FIELD ALT. BARS
3-#8 X 40-1 @ 9"
EXTEND BARS 7'-1" FOR
LAP INTO POUR
C
C-04
28-#8 X 4-0 @ 12"
DOWELS
BENT DOWN ALT BAR
6-#11 X 46-10 @ 12"
EXTEND BARS 13'-10"
FOR LAP INTO POUR,
BUT FIELD CUT BARS
AT POCKET AS
REQUIRED.
19-#11 X 8-8 @ 18"
EXTEND BARS 26'-4"
FOR LAP INTO POUR
℄ EL -45.0'
EL -46.0
19-#11 @ 18"
DOWELS
13-#8 X 38-2 @ 12"
EXTEND BARS 5'-2" FOR
LAP INTO POUR
19-#11 X 13-0 @15"
EXTEND BARS 9'-8" FOR
LAP INTO POUR
33-#8 X 38-2 @ 12"
EXTEND BARS 5'-2"
FOR LAP INTO POUR
19-#11 X 24-4 @ 18"
9'-8"
6-#8 X 38-2 @ 12"
EXTEND BARS 5'-2" FOR
LAP INTO POUR
EL -52.0'
ALT. BARS @ 9"
8'-0"
17'-9"
14-10½"
6'-0"
32'-7½"
14'-4 13/16"
7'-4 13/16"
7'-0"

B
C-04

SECTION - SILL - POUR "C"

SEE SECTION VIEW NOTES

0 2.5' 5'



C
C-04

DETAIL - GATE HINGE REINFORCEMENT

0 2.5' 5'

PLAN VIEW NOTES:

1. ALL INFORMATION PROVIDED ON THIS SHEET WAS OBTAINED FROM AS-BUILT DRAWINGS DATED 2-7-1978.
2. THE SUBMERGED CONCRETE SILL WAS CONSTRUCTED IN ELEVEN POURS/ SEGMENTS AND LABELED A THROUGH K. EACH POUR CREATED A VERTICAL CONSTRUCTION JOINT, ℄, WITH DETAILED SHEAR KEYS.
3. THE SUBMERGED SILL IS LOCATED BY THE EXISTING CHANNEL RANGES, (RGE). THE CENTER OF THE SILL IS AT RGE. 500.

SECTION VIEW NOTES:

1. ALL INFORMATION PROVIDED ON THIS SHEET WAS OBTAINED FROM AS-BUILT DRAWINGS FOR POUR "C" OF THE DOCK GATE SILL DETAIL DATED 2-10-1978 WITH REVISIONS ON 2/15. THIS WAS TYPICAL CONSTRUCTION FOR EACH POUR.
2. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO NOAA'S REPORTED MLLW OF 1983-2001 TIDAL EPOCH.
3. THERE WERE TWO HORIZONTAL POURS CONSTRUCTED FOR EACH OF THE ELEVEN VERTICAL POURS WHICH CREATED A CONSTRUCTION JOINT,℄, AT -45.0 MLLW.
4. DOWELS THAT ARE SHOWN TO BE ABOVE THE CONCRETE SILL ARE ASSUMED TO BE REMOVED. HOWEVER THE CONTRACTOR SHALL VERIFY PRIOR TO DEMOLITION.

MARK	DESCRIPTION	DATE

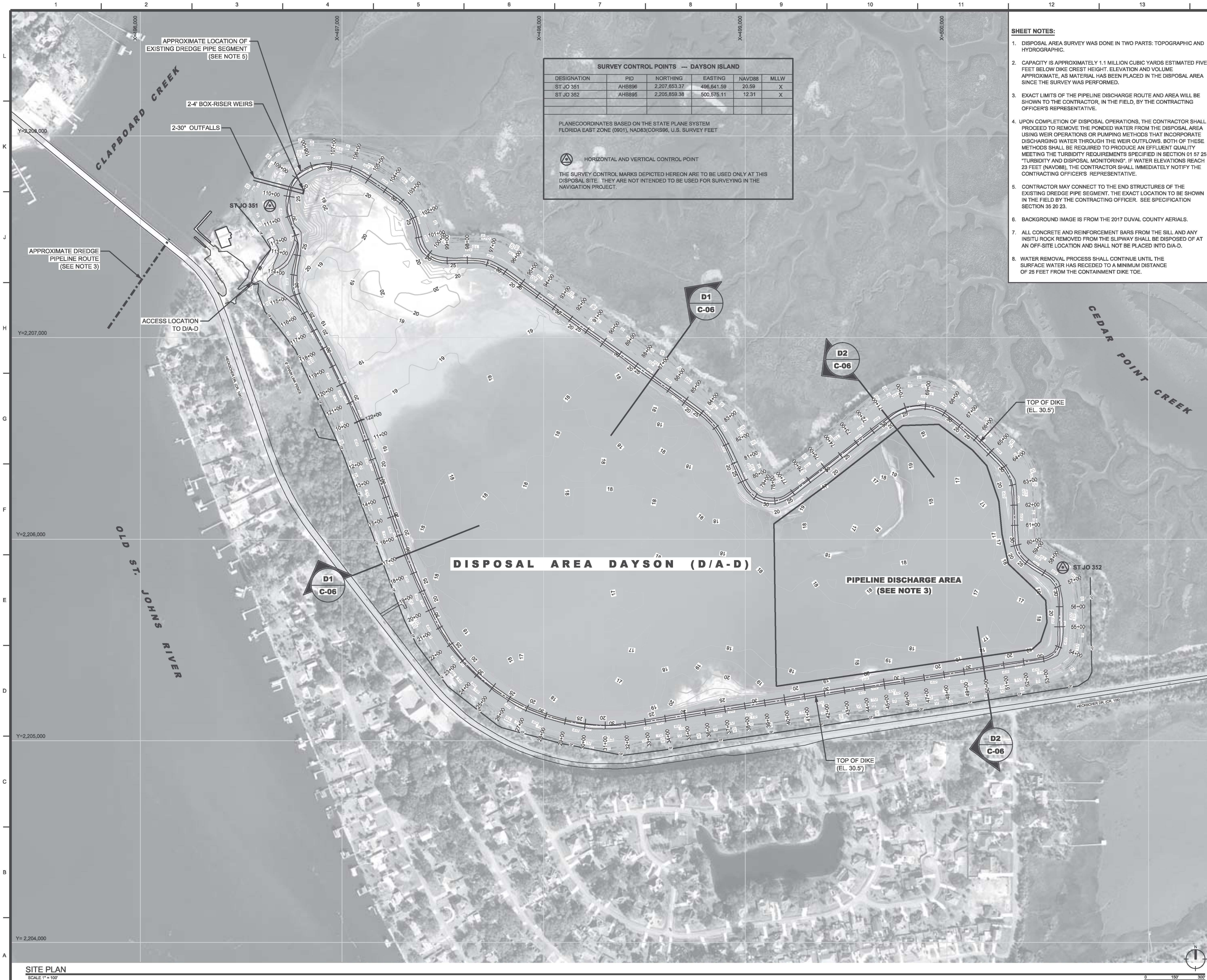
DESIGNED BY: V. BOGINA	ISSUE DATE: MMMMMMMMM YYYY
DRAWN BY: A. BURKE M. RICE	SOLICITATION NO.: W912EP19R0005
CHECKED BY: J. BERGEN	CONTRACT NO.: N/A
SUBMITTED BY: V. BOGINA	DRAWING DATE: 6/6/2019
SIZE: ANSI E	FILE NAME: 127208-MCTCD18-DT504SILL.DGN

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

CIVIL
DETAIL
EXISTING SILL PLAN AND SECTION

SHEET ID
C-04



SITE PLAN
SCALE 1" = 100'

SURVEY CONTROL POINTS --- DAYSON ISLAND

DESIGNATION	PID	NORTHING	EASTING	NAVD88	MLLW
ST JO 351	AHB896	2,207,653.37	496,641.59	20.59	X
ST JO 352	AHB895	2,205,859.38	500,575.11	12.31	X

PLANECOORDINATES BASED ON THE STATE PLANE SYSTEM
FLORIDA EAST ZONE (0901), NAD83(CORS96, U.S. SURVEY FEET

HORIZONTAL AND VERTICAL CONTROL POINT

THE SURVEY CONTROL MARKS DEPICTED HEREON ARE TO BE USED ONLY AT THIS DISPOSAL SITE. THEY ARE NOT INTENDED TO BE USED FOR SURVEYING IN THE NAVIGATION PROJECT.

SHEET NOTES:

1. DISPOSAL AREA SURVEY WAS DONE IN TWO PARTS: TOPOGRAPHIC AND HYDROGRAPHIC.
2. CAPACITY IS APPROXIMATELY 1.1 MILLION CUBIC YARDS ESTIMATED FIVE FEET BELOW DIKE CREST HEIGHT. ELEVATION AND VOLUME APPROXIMATE, AS MATERIAL HAS BEEN PLACED IN THE DISPOSAL AREA SINCE THE SURVEY WAS PERFORMED.
3. EXACT LIMITS OF THE PIPELINE DISCHARGE ROUTE AND AREA WILL BE SHOWN TO THE CONTRACTOR, IN THE FIELD, BY THE CONTRACTING OFFICER'S REPRESENTATIVE.
4. UPON COMPLETION OF DISPOSAL OPERATIONS, THE CONTRACTOR SHALL PROCEED TO REMOVE THE PONDED WATER FROM THE DISPOSAL AREA USING WEIR OPERATIONS OR PUMPING METHODS THAT INCORPORATE DISCHARGING WATER THROUGH THE WEIR OUTFLOWS. BOTH OF THESE METHODS SHALL BE REQUIRED TO PRODUCE AN EFFLUENT QUALITY MEETING THE TURBIDITY REQUIREMENTS SPECIFIED IN SECTION 01 57 25 "TURBIDITY AND DISPOSAL MONITORING". IF WATER ELEVATIONS REACH 23 FEET (NAVD88), THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE.
5. CONTRACTOR MAY CONNECT TO THE END STRUCTURES OF THE EXISTING DREDGE PIPE SEGMENT. THE EXACT LOCATION TO BE SHOWN IN THE FIELD BY THE CONTRACTING OFFICER. SEE SPECIFICATION SECTION 35 20 23.
6. BACKGROUND IMAGE IS FROM THE 2017 DUVAL COUNTY AERIALS.
7. ALL CONCRETE AND REINFORCEMENT BARS FROM THE SILL AND ANY INSITU ROCK REMOVED FROM THE SLIPWAY SHALL BE DISPOSED OF AT AN OFF-SITE LOCATION AND SHALL NOT BE PLACED INTO D/A-D.
8. WATER REMOVAL PROCESS SHALL CONTINUE UNTIL THE SURFACE WATER HAS RECEDED TO A MINIMUM DISTANCE OF 25 FEET FROM THE CONTAINMENT DIKE TOE.

US Army Corps of Engineers®

MARK | DESCRIPTION | DATE

DESIGNED BY: V. BOGINA
DRAWN BY: A. BURKE M. RICE
CHECKED BY: J. BERGEN
SUBMITTED BY: V. BOGINA
SIZE: ANSI E
FILE NAME: 127208-MCT18-CN104PLN.dgn
ISSUE DATE: MMMMMMMM YYYY
SOLICITATION NO.: W912EP19R0005
CONTRACT NO.: N/A
DRAWING DATE: 6/6/2019

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

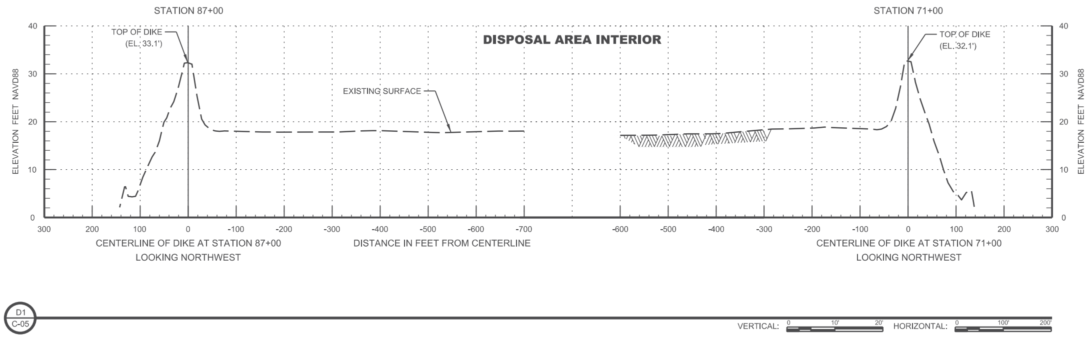
MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

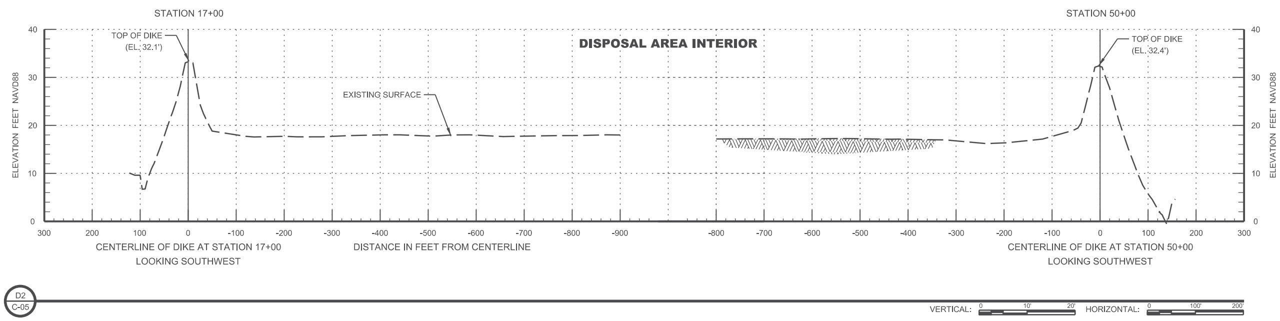
CIVIL
DISPOSAL AREA DAYSON (D/A-D)
SITE PLAN

SHEET ID
C-05

NOTES:

1. ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO THE NAVD88 DATUM AND ARE ABOVE REFERENCE DATUM UNLESS PRECEDED BY A (-) SIGN. THIS VERTICAL DATUM IS DIFFERENT THAN THE CHANNEL HYDRO SURVEY. REFER TO SPECIFIC SURVEY NOTES FOR DATUM REFERENCES.
2. SURFACES SHOWN ARE APPROXIMATE AS MATERIAL HAS BEEN PLACED IN THE DISPOSAL AREA SINCE THE SURVEY WAS PERFORMED.


STATION 87+00
STATION 71+00
DISPOSAL AREA INTERIOR
TOP OF DIKE (EL. 33.1')
TOP OF DIKE (EL. 32.1')
EXISTING SURFACE
ELEVATION FEET NAVD88
CENTERLINE OF DIKE AT STATION 87+00
LOOKING NORTHWEST
DISTANCE IN FEET FROM CENTERLINE
CENTERLINE OF DIKE AT STATION 71+00
LOOKING NORTHWEST
D1
C-05
VERTICAL: 0 10' 20'
HORIZONTAL: 0 100' 200'


STATION 17+00
STATION 50+00
DISPOSAL AREA INTERIOR
TOP OF DIKE (EL. 32.1')
TOP OF DIKE (EL. 32.4')
EXISTING SURFACE
ELEVATION FEET NAVD88
CENTERLINE OF DIKE AT STATION 17+00
LOOKING SOUTHWEST
DISTANCE IN FEET FROM CENTERLINE
CENTERLINE OF DIKE AT STATION 50+00
LOOKING SOUTHWEST
D2
C-05
VERTICAL: 0 10' 20'
HORIZONTAL: 0 100' 200'

US Army Corps of Engineers

MARK	DESCRIPTION	DATE

U.S. ARMY CORPS OF ENGINEERS
JACKSONVILLE DISTRICT
701 SAN MARCO BLVD
JACKSONVILLE FL, 32207

DESIGNED BY: V. BOGINA		ISSUE DATE: MMMMMMMMM YYYY
DRAWN BY: A. BURKE	M. RICE	SOLICITATION NO.: W912EP19R0005
CHECKED BY: J. BERGEN		CONTRACT NO.: N/A
SUBMITTED BY: V. BOGINA		DRAWING DATE: 6/6/2019
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MARINE CORPS SUPPORT FACILITY - BLOUNT ISLAND
CONCRETE SILL REMOVAL
DUVAL COUNTY, FLORIDA

CIVIL
DISPOSAL AREA DAYSON (D/A-D)
CROSS SECTIONS

SHEET ID
C-06