



Bayshore Gateway Triangle CRA • Bayshore Beautification MSTU
Haldeman Creek MSTU

Haldeman Creek MSTU Advisory Committee Meeting

AGENDA

February 7, 2022

3:30 PM

3299 Tamiami Trail E 3rd Floor BCC Chambers, Naples, Florida 34112

Chairman Roy Wilson

Jacob Dutry van Haeften, James King, Bill Robbins, Robert Wopperer

1. Call to order and Roll Call

2. Pledge of Allegiance

3. Adoption of Agenda

4. Approval of Minutes

- a. November 1, 2021 Minutes (Attachment)

5. Community / Business – Presentations

6. Old Business

- a. Captain Randy Yanez – Florida Fish and Wildlife Conservation Commission
- b. Matthew Goddard – Humiston and Moore (See November 2021 Packet information). (Attachment)

7. New Business

- a. Haldeman Creek MSTU Advisory Committee re-appointments- Roy Wilson (Attachment) (Action Item)
- b. Haldeman Creek MSTU Advisory Committee re-appointments – Jacob Dutry van Haeften (Attachment) (Action Item)
- c. Election of Chair and Vice Chair (Action Item)
- d. Great American Cleanup on March 5, 2022 – Captain?
- e. 2010 Goals and Objectives – Review (Attachment)

8. Staff Report

- a. CRA Directors Report – (Attachment)
- b. Project Manager's Report – (Attachment)
- c. Financials- (Attachment)

9. Correspondence and Communication-

10. Public Comment

11. Staff Comments:

12. Advisory Board General Communications



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13. Next meeting date:

- a. March 7, 2022 TBD
- b. May 3 @ 9am BCC/MSTU's Joint Workshop

14. Adjournment



Bayshore Gateway Triangle CRA • Bayshore Beautification MSTU
Haldeman Creek MSTU

November 1, 2021 meeting minutes

Item 4a

HALDEMAN CREEK MSTU MINUTES OF THE NOVEMBER 1, 2021 MEETING

The meeting of the Haldeman Creek MSTU Advisory Committee was called to order by Roy Wilson at 3:33 p.m. at 3299 Tamiami Trail E, 3rd Floor BCC Chambers, Naples, FL 34112.

- I. **Roll Call:** Advisory Board Members Present: Chair, Roy Wilson, Robert Wopperer, and Jim King Jacob Dutry van Haeften. Bill Robbins was absent.

MSTU Staff Present: Debrah Forester, CRA Director, Tami Scott, Project Manager and Shirley Garcia, Operations Coordinator
- II. **Pledge of Allegiance-** Was led by Roy Wilson
- III. **Adoption of Agenda:** Jim King made a motion to approve the agenda as amended, Robert Wopperer second. Approved unanimously.
- IV. **Adoption of Minutes:** Jaap Dutry van Haeften made a motion to approve the minutes, Robert Wopperer second, approved unanimously.
- V. **Community / Business – Presentations**
- VI. **Old Business:**
 - a. **Boundary Expansion -Courthouse Shadows -** Ms. Forester mentioned the boundary expansion for the Courthouse Shadows Property that was approved by the BCC and once staff receives the signed amendment, they will forward it up to the Tax Collectors Office to update those changes.
 - b. **Permit Update –** Ms. Forester mentioned the permit that was approved and the maps that were included in the application that are included in the permit. Mr. Wilson was speaking with the Director about asking the consultant to come in to explain the dredging report because he was under the impression there was silting but the Director explained that the report showed it didn't need it at that time maybe revisit the depth in 3 years and now it has been around 3 years from the report it might be time to revisit, she will invite the Humiston and Moore Engineer at the next meeting.
 - c. **Patrol Report-** Ms. Forester mentioned Commissioner Taylor writing a letter to all the agencies that patrol the creek to set up a meeting to discuss the issues of speeding
- VII. **New Business:**
 - a. **New 2022 Meeting Calendar –**Mr. Wilson spoke with staff about changing the February meeting to accommodate the committee expiration dates and reapplication



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- b. Process since it takes time to go through the approval process. Ms. Forester mentioned the expiration is on March 13th there needs to be a 30 day prior to expiration to be open for anyone to apply, then goes to this committee for a vote then the Board of County Commissioners for final approval. Staff was thinking about not holding a February meeting then have an early March meeting to vote in the members. Mr. Wilson recommended keeping the schedule as published on the calendar and see if the consultants could come and decide to cancel if they are not available. After some discussion by the Committee, Jim King made a motion to recommend the schedule as discussed, seconded by Jaap Dutry van Haeften. Passed unanimously.
- c. **3.13.22 Committee Member Appointments Expiration Reminder-** Roy Wilson updated the committee on the expiration of his and Mr. Dutry van Haeften and discussed when the next meeting will be.

VIII. Staff Report:

- a. **CRA Directors Report-** Ms. Forester provided the report and asked if anyone had any questions.
- b. **Project Manager Report-** Tami Scott had her project report attached if anyone had any questions.
- c. **Maintenance Report** – Maintenance report was provided if anyone has any questions.
- d. **Financials-** The financial report was provided.

IX. Correspondence and Communications:

- a. **Dels Corner Dedication November 5th invitation** - Ms. Forester announced the open invitation to anyone who would like to attend the dedication ceremony and ribbon cutting start will be 10 am on the corner of Bayshore Drive and Thomasson Drive, formerly Dels 24 hour store.
- b. **A New owner for Hamilton Harbor Article** - Ms. Forester provided the article from the Naples Daily News highlighting the new owners of Hamilton Harbor.
- c. **Gore Nature Education Center Grand Opening** – The article attached highlighted the new nature education center grand opening.
- d. **Naples Yard and Garden Show UF IFIS Ext** – This article references a Yard and Garden show if anyone was interested.

X. Public Comments: Al Schantzen shared his comment about the drainage canal being a glorified swale so it would not be applicable for being a navigable waterway by definition and just wanted to share that information.

XI. Staff Comments: None



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XII. Advisory Committee Comments: Jim King wanted to ask about the properties on Captains Cove and other streets that have access to Haldeman Creek and if they could be added to the MSTU boundary because now that they cleaned the drainage canal it leads directly into Haldeman Creek. Ms. Forester said that it is not easy to add it since the boundary already went through the process for the Courthouse Shadows property and the other little streets do not have direct access its just the County has cleaned out the drainage canal and it connects into the Creek. Mr. Wilson mentioned looking into the ordinance to see if it was specific to just properties on Haldeman Creek or does it say connecting to Haldeman Creek but Ms. Forester said regardless it will still need a boundary change so that is a process, and the committee said better to just leave it as is.

XIII. Next Meeting Date:

a. January 10, 2022 TBD

XIV. Adjournment: 4:50 pm

Roy Wilson, Chairman

From: Rabney, Steven J CIV USARMY CESAJ (USA) <Steven.J.Rabney@usace.army.mil>

Sent: Monday, September 13, 2021 4:31 PM

To: Matthew Goddard <mdgoddard@humistonandmoore.com>

Subject: SAJ-2003-06964_(Collier County-Haldeman Creek)_NWP

Good Afternoon Matthew,

Attached is the NWP for SAJ-2003-06964 (Collier County-Haldeman Creek). Remind me in March so when the new Nationwide permits are valid, I can issue a re-verification to extend the expiration. Please let me know that you received the attachment and I am sorry for taking so long.

V/r

Steven Rabney

Project Manager

U.S. Army Corps of Engineers

1520 Royal Palm Square Blvd. Suite 310

Fort Myers, FL 33919

239-334-1975 x0009

Steven.J.Rabney@usace.army.mil



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
1520 ROYAL PALM SQUARE BLVD, SUITE 310
FORT MYERS, FLORIDA 33919

September 13, 2021

REPLY TO
ATTENTION OF

Regulatory Division
West Permits Branch
Fort Myers Permits Section
SAJ-2003-06964(NW-SJR)

Collier County Coastal Zone Management
C/o Gary McAlpin
2685 South Horseshoe Drive
Naples, FL 34104

Dear Mr. McAlpin:

The U.S. Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit, which the Corps received on December 31, 2019, the file number SAJ-2003-06964(NW-SJR). A review of the information and drawings provided indicates that the proposed work would result in the maintenance dredging of 706,656 square feet from Haldeman Creek and adjacent canals to -2 mean low water (MLW) east of Bayshore Drive to the Tamiami Trail and -5 MLW west of Bayshore Drive to Naples Bay to then remove approximately 31,600 cubic yards of material that will be disposed of at a temporary upland location at parcel ID # 81780240002 until being transported to the final upland location at the Collier County landfill, 3730 White Lake Boulevard in Naples. The project is located at Haldeman Creek Southwest of Tamiami Trail (US-41) west to Naples Bay, in Sections 11, 12, 13, & 14, Township 50 South, Range 25 East, Naples, Collier County, Florida.

Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) Number 35. In addition, project specific conditions have been enclosed. This verification is valid until **March 18, 2022**. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory Internet page to access Internet links to view the Final Nationwide Permits, Federal Register Vol. 82, dated January 6, 2017, specifically pages 1983 to 2008, and the table of Regional Conditions. The Internet page address is:

<http://www.saj.usace.army.mil/Missions/Regulatory.aspx>

remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

5. Cultural Resources/Historic Properties:

a. No structure or work shall adversely affect impact or disturb properties listed in the *National Register of Historic Places* (NRHP) or those eligible for inclusion in the NRHP.

b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition ; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.

d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.

6. Manatee Conditions: The Permittee shall comply with the “Standard Manatee Conditions for In-Water Work – 2011”

Please be aware this Internet address is case sensitive and should be entered as it appears above. Once there you will need to click on "Source Book"; and, then click on "Nationwide Permits." These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 35. Enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. Reporting Address: The Permittee shall submit all reports, notifications, documentation, and correspondence required by the general and special conditions of this permit to either (not both) of the following addresses:

a. For electronic mail (preferred): SAJ-RD-Enforcement@usace.army.mil (not to exceed 15 MB).

b. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.

The Permittee shall reference this permit number, SAJ-2003-06964(NW-SJR), on all submittals.

2. Commencement Notification: Within 10 days from the date of initiating the work authorized by this permit the Permittee shall submit a completed "Commencement Notification" Form

3. Self-Certification: Within 60 days of completion of the work authorized by this permit, the permittee shall complete the attached "Self-Certification Statement of Compliance" form and submit it to the Corps. In the event that the completed work deviates in any manner from the authorized work, the permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the "Self-Certification Statement of Compliance" form. The description of any deviations on the "Self-Certification Statement of Compliance" form does not constitute approval of any deviations by the Corps.

4. Assurance of Navigation and Maintenance: The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the U.S. Army Corps of Engineers, to

7. Turbidity Barriers: Prior to the initiation of any of the work authorized by this permit, the Permittee shall install floating turbidity barriers with weighted skirts that extend to within 1 foot of the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained until the authorized work has been completed and all suspended and erodible materials have been stabilized. Turbidity barriers shall be removed upon stabilization of the work area.

8. Daylight Hours: All work must be completed during daylight hours.

9. Jacksonville District Programmatic Biological Opinion (JAXBO), November 2017, Project Design Criteria (PDCs): Structures authorized under this permit must comply with all applicable PDCs, based on the permitted activity, as required by JAXBO. Please note that failure to comply with the applicable PDCs, where a take of listed species occurs, would constitute an unauthorized take, and noncompliance with this permit. The NMFS is the appropriate authority to enforce the terms and conditions of JAXBO. The most current version of JAXBO can be accessed at the Jacksonville District Regulatory Division internet webpage in the Endangered Species section of the Sourcebook located at:
<http://www.saj.usace.army.mil/Missions/Regulatory/SourceBook.aspx>.

Note - JAXBO may be subject to revision at any time. The most recent version of these conditions must be utilized during the design and construction of the permitted work. In accordance with the Endangered Species Act, and for those projects which do not comply with JAXBO, the Corps will seek individual consultation with the NMFS.

Note - some authorized activities may deviate from the PDCs. In cases, where the activity (i.e., structure dimensions, length, etc.) deviates from the PDCs, the permit drawings shall supersede the PDCs.

For each of the following authorized activities subject of this permit, the permittee shall adhere to the following PDCs, which are attached to, and made part of, this authorization/verification letter:

In-Water Activities: (AP.7-11)

Activity 3 – Maintenance, Minor, & Muck Dredging: (A3.1-3.4)

This letter of authorization does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact me by telephone at 239-334-1975 x0009.

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to complete our automated Customer Service Survey at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. Please be aware this Internet address is case sensitive; and, you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

Sincerely,



Steven Rabney
Project Manager

Enclosures

General Conditions
Department of the Army Permit Transfer Request
Commencement Notification Form
Self-Certification Statement of Compliance
Standard Manatee Conditions for In-Water Work
National Marine Fisheries Service's "PDCs for In-Water Activities"
National Marine Fisheries Service's "PDCs for Maintenance, Minor, & Muck Dredging"
Permit Drawings

HALDEMAN CREEK MAINTENANCE DREDGING PROJECT

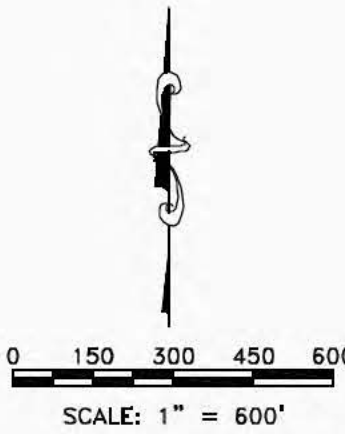
SHEET 2
MAIN AND NORTH
CHANNELS

SHEET 4
MAIN AND EAST
CHANNELS

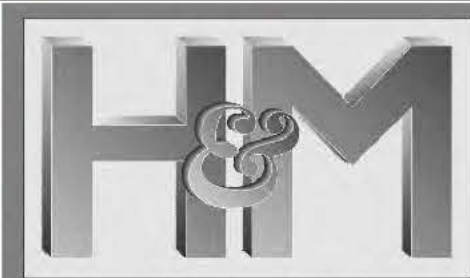
SHEET 1
MAIN CHANNEL
ENTRANCE

SHEET 3
SOUTH
CHANNELS

Dredge Template Depth by Section			
Section A-A	Depth (ft)	Section K-K	Depth (ft)
0+00 18+50	-3.78	0+00 3+55	-6.78
18+50 26+00	-3.78 to -6.78	Section L-L	Depth (ft)
26+00 111+00	-6.78	0+00 12+00	-6.78
Section B-B	Depth (ft)	Section M-M	Depth (ft)
0+00 15+39.45	-6.78	0+00 7+19	-6.78
Section C-C	Depth (ft)	Section N-N	Depth (ft)
0+00 5+50	-3.78	0+00 7+21	-6.78
Section D-D	Depth (ft)	Section P-P	Depth (ft)
0+00 5+50	-3.78	0+00 8+19	-6.78
Section E-E	Depth (ft)	Section Q-Q	Depth (ft)
0+00 5+00	-3.78	0+00 8+00	-6.78
Section F-F	Depth (ft)	Section R-R	Depth (ft)
0+00 0+50	-5.77 to -3.78	0+00 6+94	-6.78
0+50 3+30	-3.78	Section S-S	Depth (ft)
Section G-G	Depth (ft)	0+00 8+00	-6.78
0+00 3+38	-6.78	Section T-T	Depth (ft)
Section H-H	Depth (ft)	0+00 8+61	-6.78
0+00 3+43	-6.78	Section U-U	Depth (ft)
Section J-J	Depth (ft)	0+00 16+11	-6.78
0+00 3+49	-6.78	Section V-V	Depth (ft)
		0+00 6+00	-6.78



NOTES:
1. AERIAL DATED DECEMBER 2018 AND COURTESY OF COLLIER COUNTY.
2. DREDGING TEMPLATES BASED ON PREVIOUS DREDGING PROJECT POST CONSTRUCTION SURVEY COMPLETED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.

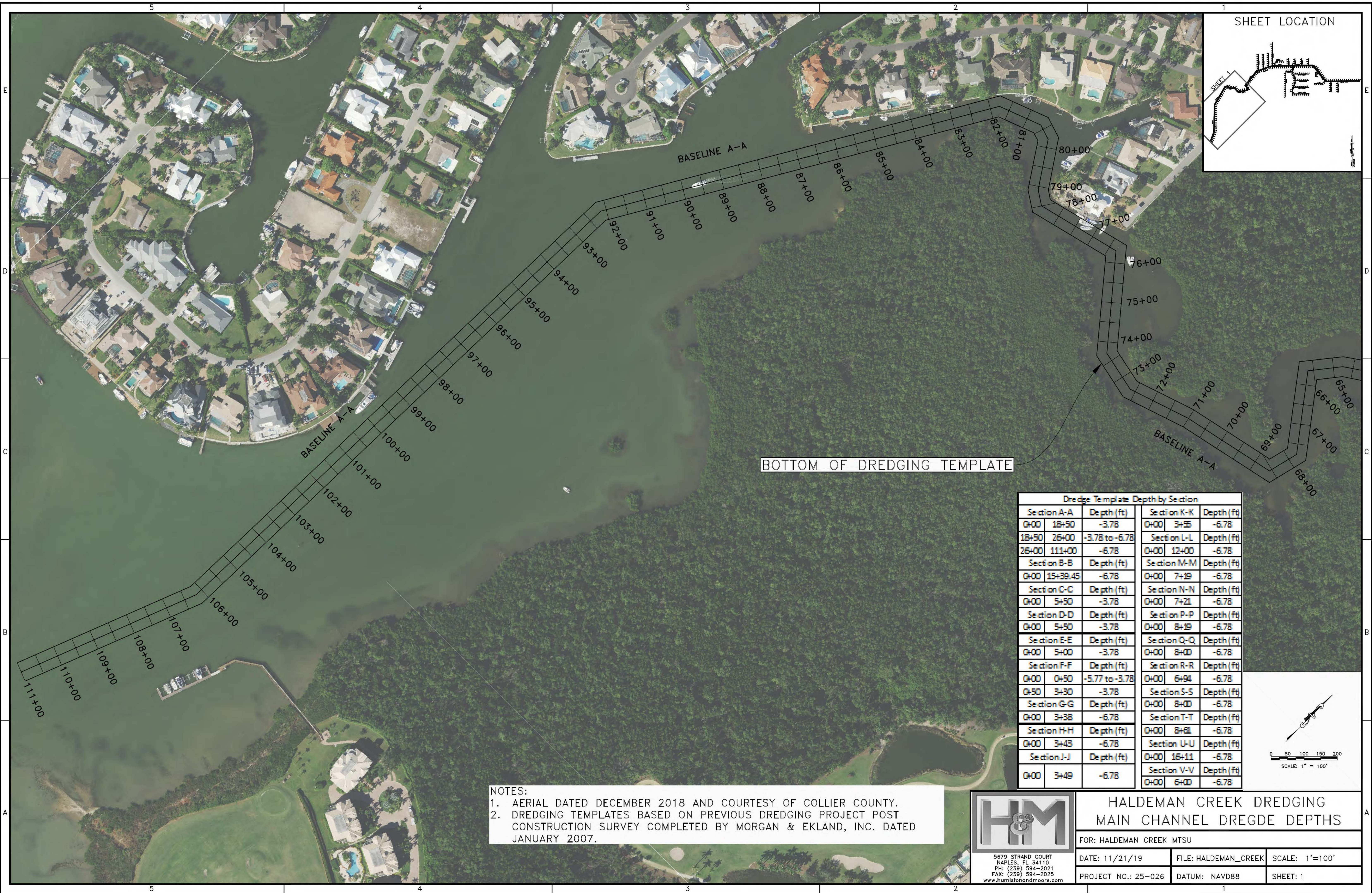
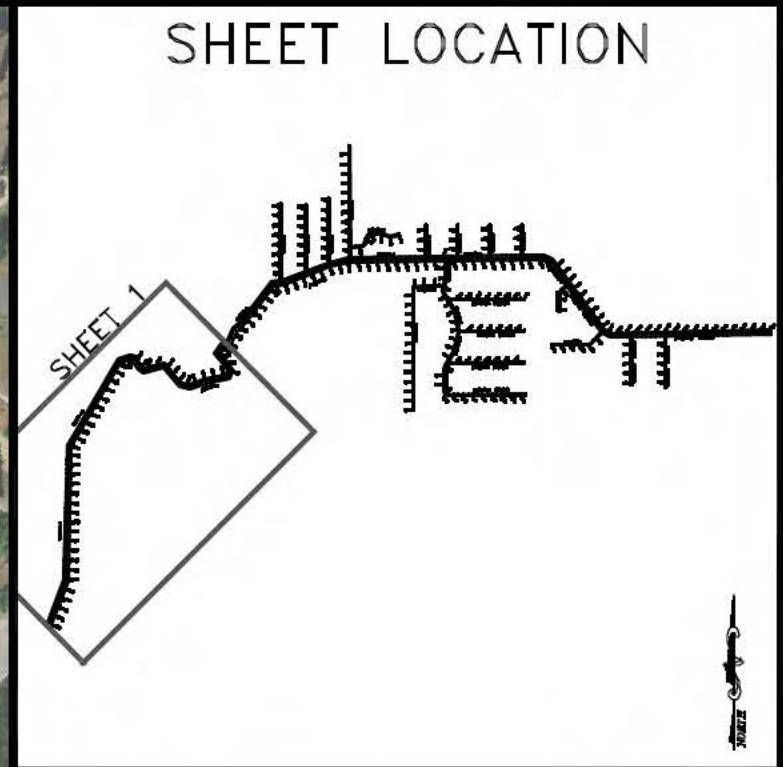


5679 STRAND COURT
NAPLES, FL 34110
PH: (239) 594-2021
FAX: (239) 594-2025
www.hunstonandmoore.com

HALDEMAN CREEK DREDGING OVERALL SITE PLAN

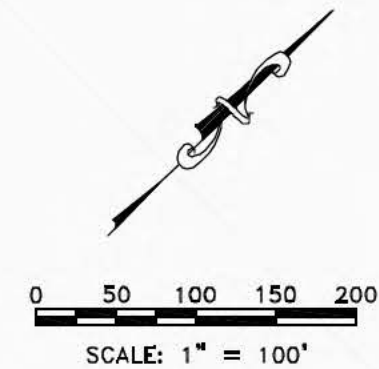
FOR: HALDEMAN CREEK MTSU

DATE: 11/21/19	FILE: HALDEMAN_CREEK	SCALE: 1"=300'
PROJECT NO.: 25-026	DATUM: NAVD88	SHEET: OVERVIEW



BOTTOM OF DREDGING TEMPLATE

Dredge Template Depth by Section			
Section A-A		Depth (ft)	
0+00	18+50	-3.78	
18+50	26+00	-3.78 to -6.78	
26+00	111+00	-6.78	
Section B-B		Depth (ft)	
0+00	15+39.45	-6.78	
Section C-C		Depth (ft)	
0+00	5+50	-3.78	
Section D-D		Depth (ft)	
0+00	5+50	-3.78	
Section E-E		Depth (ft)	
0+00	5+00	-3.78	
Section F-F		Depth (ft)	
0+00	0+50	-5.77 to -3.78	
0+50	3+30	-3.78	
Section G-G		Depth (ft)	
0+00	3+38	-6.78	
Section H-H		Depth (ft)	
0+00	3+43	-6.78	
Section J-J		Depth (ft)	
0+00	3+49	-6.78	
Section K-K		Depth (ft)	
0+00	3+55	-6.78	
Section L-L		Depth (ft)	
0+00	12+00	-6.78	
Section M-M		Depth (ft)	
0+00	7+19	-6.78	
Section N-N		Depth (ft)	
0+00	7+21	-6.78	
Section P-P		Depth (ft)	
0+00	8+19	-6.78	
Section Q-Q		Depth (ft)	
0+00	8+00	-6.78	
Section R-R		Depth (ft)	
0+00	6+94	-6.78	
Section S-S		Depth (ft)	
0+00	8+00	-6.78	
Section T-T		Depth (ft)	
0+00	8+81	-6.78	
Section U-U		Depth (ft)	
0+00	16+11	-6.78	
Section V-V		Depth (ft)	
0+00	6+00	-6.78	



0 50 100 150 200
SCALE: 1" = 100'

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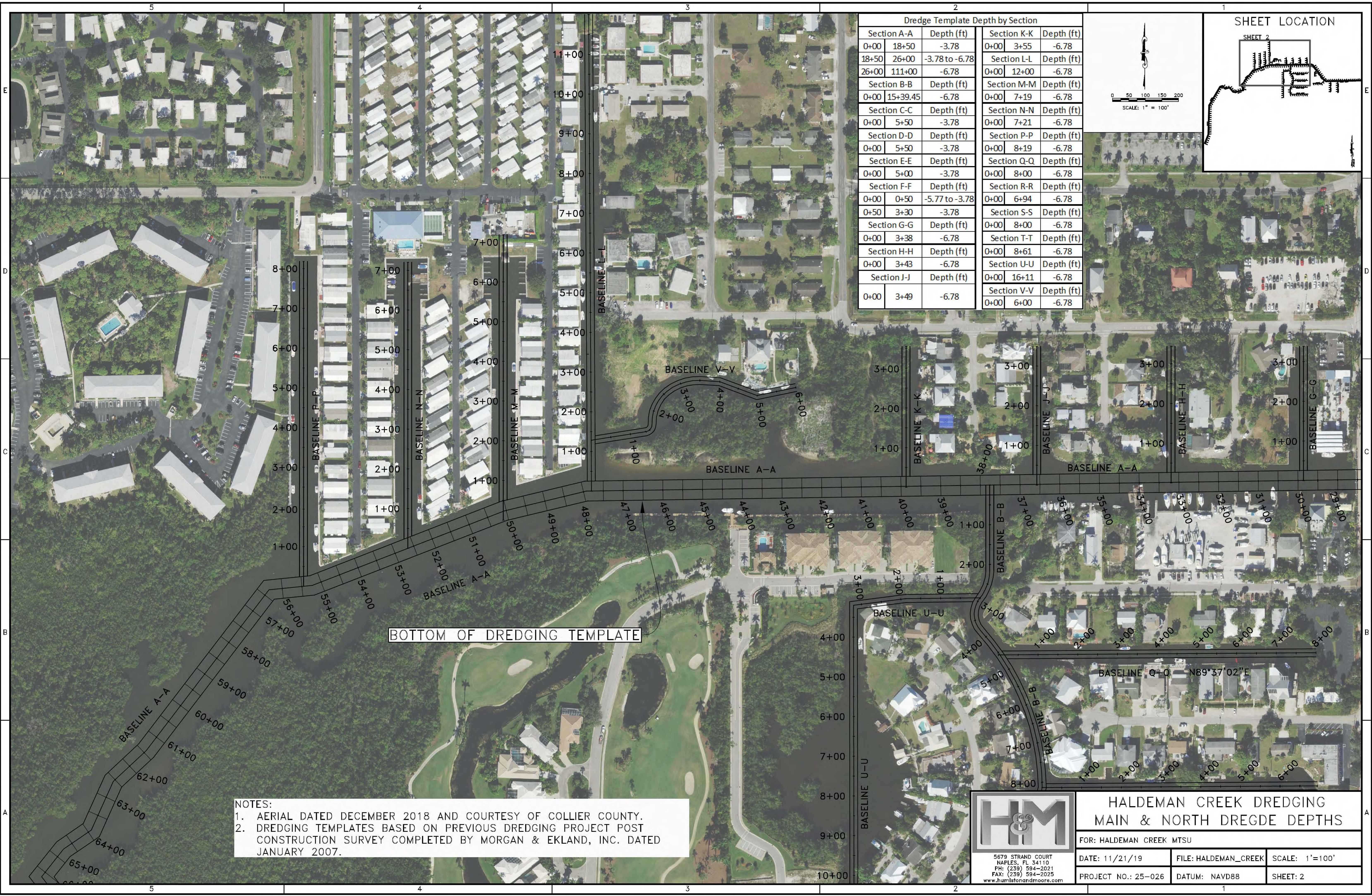


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HALDEMAN CREEK DREDGING MAIN CHANNEL DREGDE DEPTHS

FOR: HALDEMAN CREEK MTSU

DATE: 11/21/19	FILE: HALDEMAN_CREEK	SCALE: 1"=100'
PROJECT NO.: 25-026	DATUM: NAVD88	SHEET: 1



Dredge Template Depth by Section			
Section A-A		Depth (ft)	
0+00	18+50	-3.78	
18+50	26+00	-3.78 to -6.78	
26+00	111+00	-6.78	
Section B-B		Depth (ft)	
0+00	15+39.45	-6.78	
Section C-C		Depth (ft)	
0+00	5+50	-3.78	
Section D-D		Depth (ft)	
0+00	5+50	-3.78	
Section E-E		Depth (ft)	
0+00	5+00	-3.78	
Section F-F		Depth (ft)	
0+00	0+50	-5.77 to -3.78	
0+50	3+30	-3.78	
Section G-G		Depth (ft)	
0+00	3+38	-6.78	
Section H-H		Depth (ft)	
0+00	3+43	-6.78	
Section J-J		Depth (ft)	
0+00	3+49	-6.78	
Section K-K		Depth (ft)	
0+00	3+55	-6.78	
Section L-L		Depth (ft)	
0+00	12+00	-6.78	
Section M-M		Depth (ft)	
0+00	7+19	-6.78	
Section N-N		Depth (ft)	
0+00	7+21	-6.78	
Section P-P		Depth (ft)	
0+00	8+19	-6.78	
Section Q-Q		Depth (ft)	
0+00	8+00	-6.78	
Section R-R		Depth (ft)	
0+00	6+94	-6.78	
Section S-S		Depth (ft)	
0+00	8+00	-6.78	
Section T-T		Depth (ft)	
0+00	8+61	-6.78	
Section U-U		Depth (ft)	
0+00	16+11	-6.78	
Section V-V		Depth (ft)	
0+00	6+00	-6.78	

NOTES:
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HALDEMAN CREEK DREDGING
MAIN & NORTH DREGDE DEPTHS

FOR: HALDEMAN CREEK MTSU

DATE: 11/21/19

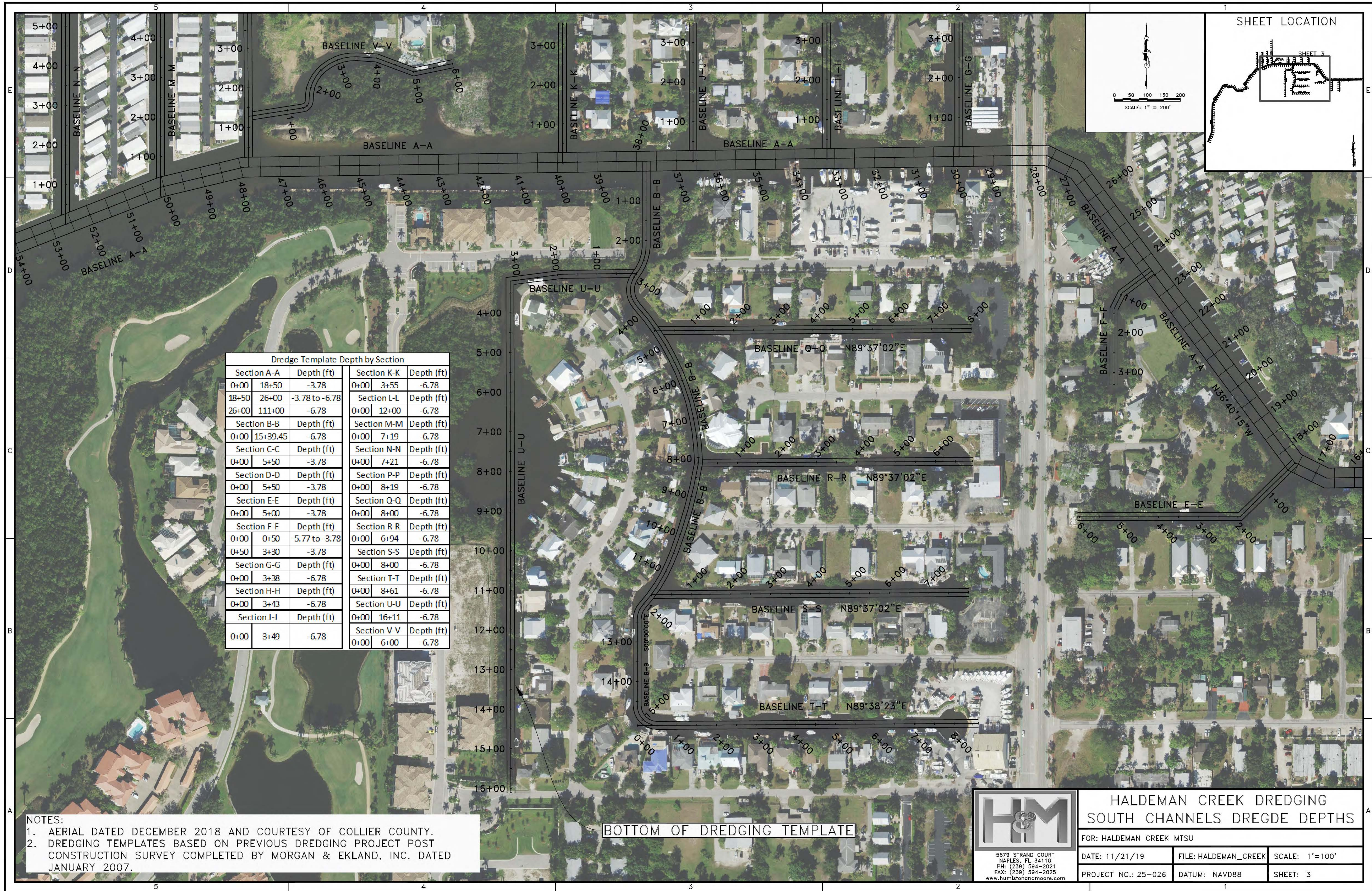
FILE: HALDEMAN_CREEK

SCALE: 1'=100'

PROJECT NO.: 25-026

DATUM: NAVD88

SHEET: 2



Dredge Template Depth by Section			
Section A-A		Section K-K	
0+00	18+50	0+00	3+55
18+50	26+00	Section L-L	Depth (ft)
26+00	111+00	0+00	12+00
Section B-B		Section M-M	Depth (ft)
0+00	15+39.45	0+00	7+19
Section C-C		Section N-N	Depth (ft)
0+00	5+50	0+00	7+21
Section D-D		Section P-P	Depth (ft)
0+00	5+50	0+00	8+19
Section E-E		Section Q-Q	Depth (ft)
0+00	5+00	0+00	8+00
Section F-F		Section R-R	Depth (ft)
0+00	0+50	0+00	6+94
0+50	3+30		
		Section S-S	Depth (ft)
Section G-G		0+00	8+00
0+00	3+38		
		Section T-T	Depth (ft)
Section H-H		0+00	8+61
0+00	3+43		
		Section U-U	Depth (ft)
Section J-J		0+00	16+11
0+00	3+49		
		Section V-V	Depth (ft)
		0+00	6+00

NOTES:
1. AERIAL DATED DECEMBER 2018 AND COURTESY OF COLLIER COUNTY.
2. DREDGING TEMPLATES BASED ON PREVIOUS DREDGING PROJECT POST CONSTRUCTION SURVEY COMPLETED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.

BOTTOM OF DREDGING TEMPLATE

H&M

5679 STRAND COURT
NAPLES, FL 34110
PH: (239) 594-2021
FAX: (239) 594-2025
www.humistonandmoore.com

HALDEMAN CREEK DREDGING
SOUTH CHANNELS DREGDE DEPTHS

FOR: HALDEMAN CREEK MTSU

DATE: 11/21/19

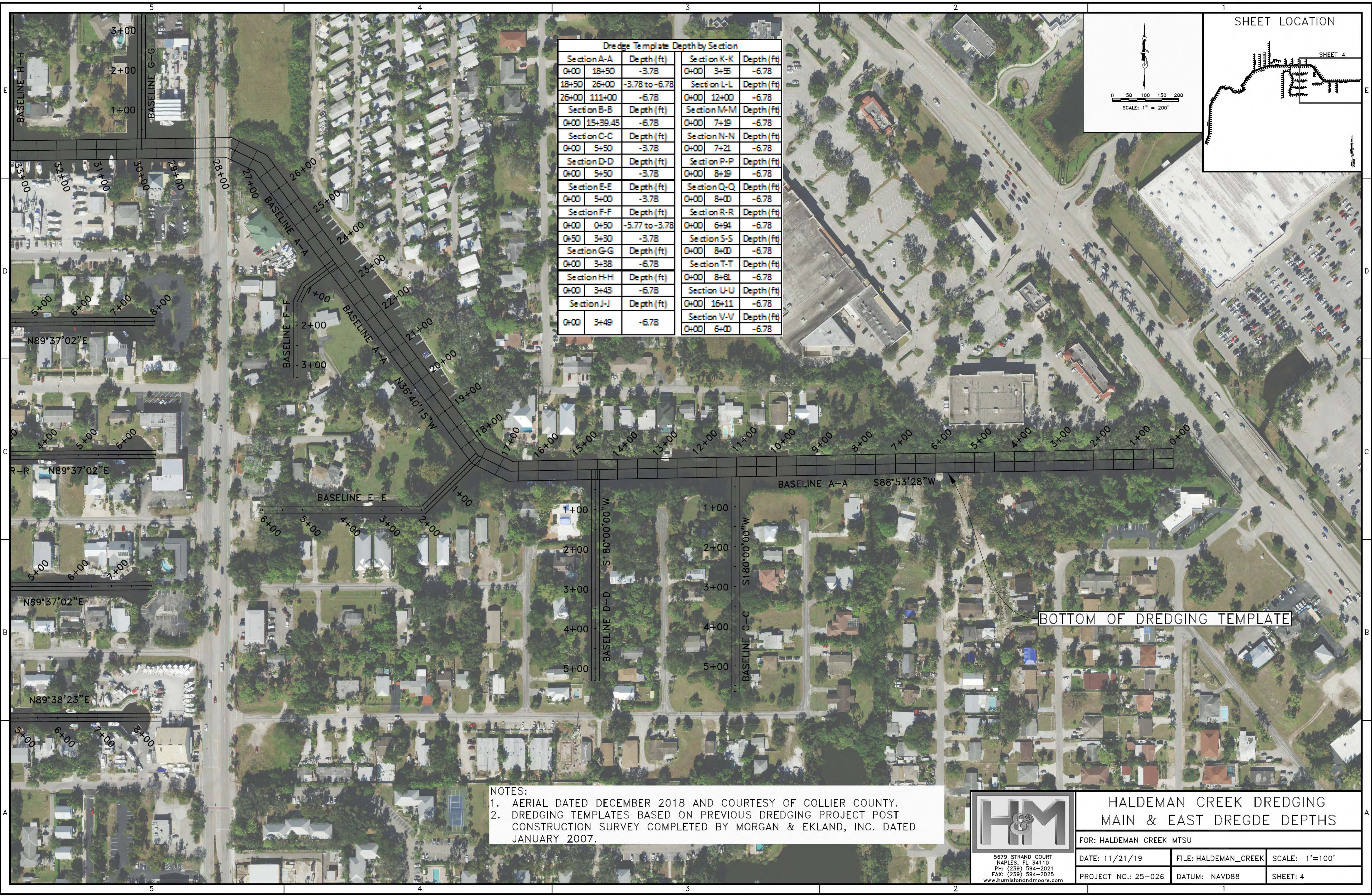
FILE: HALDEMAN_CREEK

SCALE: 1'=100'

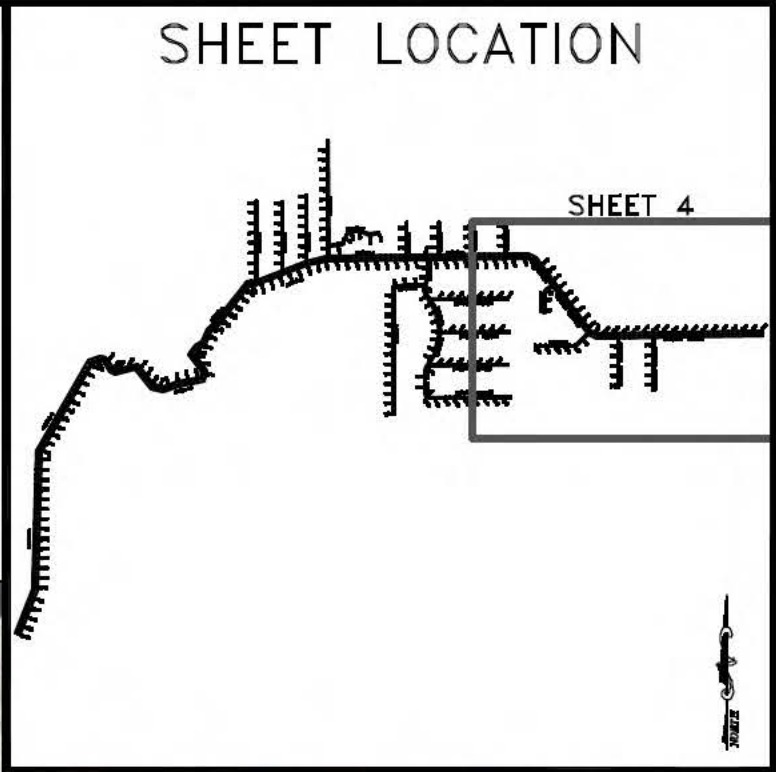
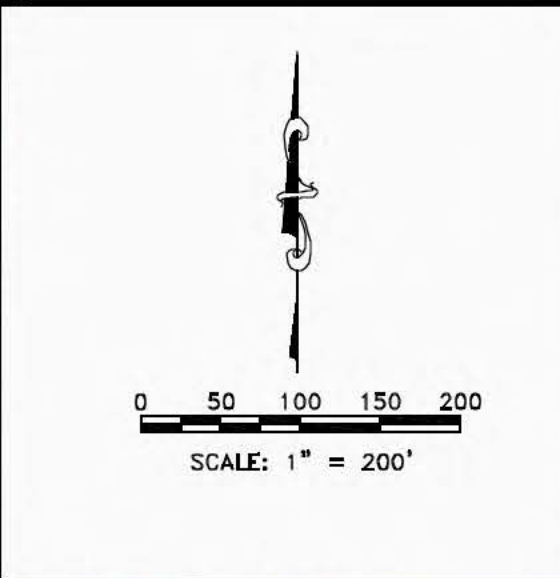
PROJECT NO.: 25-026

DATUM: NAVD88

SHEET: 3

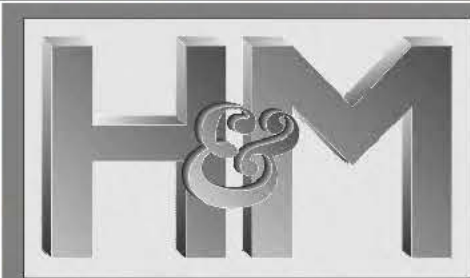


Dredge Template Depth by Section					
Section A-A-A			Section K-K		
0+00	18+50	-3.78	0+00	3+55	-6.78
18+50	26+00	-3.78 to -6.78	Section L-L		
26+00	111+00	-6.78	0+00	12+00	-6.78
Section B-B			Section M-M		
0+00	15+39.45	-6.78	0+00	7+19	-6.78
Section C-C			Section N-N		
0+00	5+50	-3.78	0+00	7+21	-6.78
Section D-D			Section P-P		
0+00	5+50	-3.78	0+00	8+19	-6.78
Section E-E			Section Q-Q		
0+00	5+00	-3.78	0+00	8+00	-6.78
Section F-F			Section R-R		
0+00	0+50	-5.77 to -3.78	0+00	6+94	-6.78
0+50	3+30	-3.78	Section S-S		
Section G-G			0+00	8+00	-6.78
0+00	3+38	-6.78	Section T-T		
Section H-H			0+00	8+61	-6.78
0+00	3+43	-6.78	Section U-U		
Section J-J			0+00	16+11	-6.78
0+00	3+49	-6.78	Section V-V		
			0+00	6+00	-6.78



NOTES:
1. AERIAL DATED DECEMBER 2018 AND COURTESY OF COLLIER COUNTY.
2. DREDGING TEMPLATES BASED ON PREVIOUS DREDGING PROJECT POST CONSTRUCTION SURVEY COMPLETED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.

BOTTOM OF DREDGING TEMPLATE

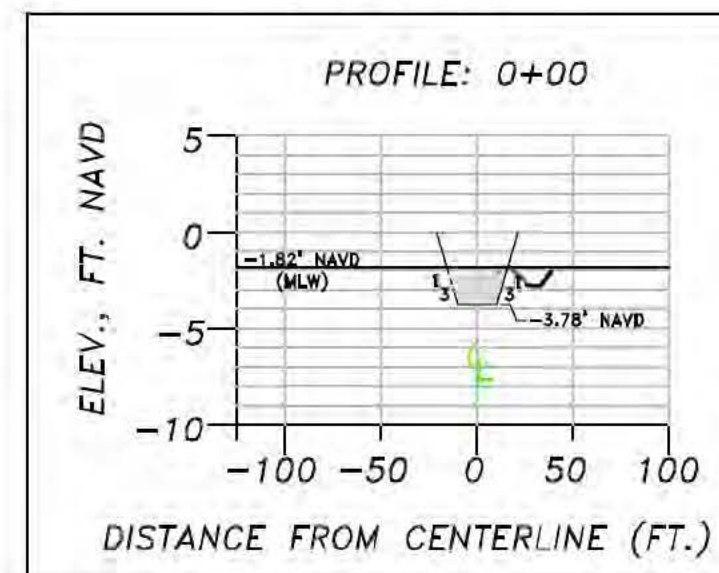


5679 STRAND COURT
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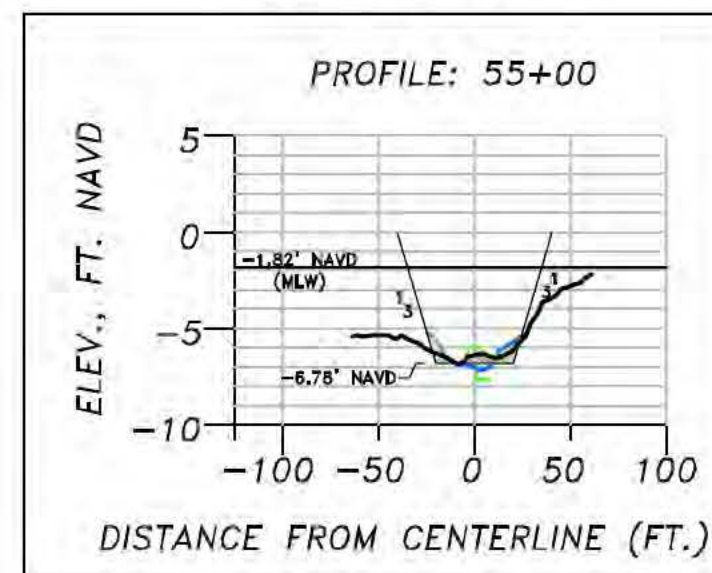
HALDEMAN CREEK DREDGING
MAIN & EAST DREGDE DEPTHS

FOR: HALDEMAN CREEK MTSU		
DATE: 11/21/19	FILE: HALDEMAN_CREEK	SCALE: 1"=100'
PROJECT NO.: 25-026	DATUM: NAVD88	SHEET: 4

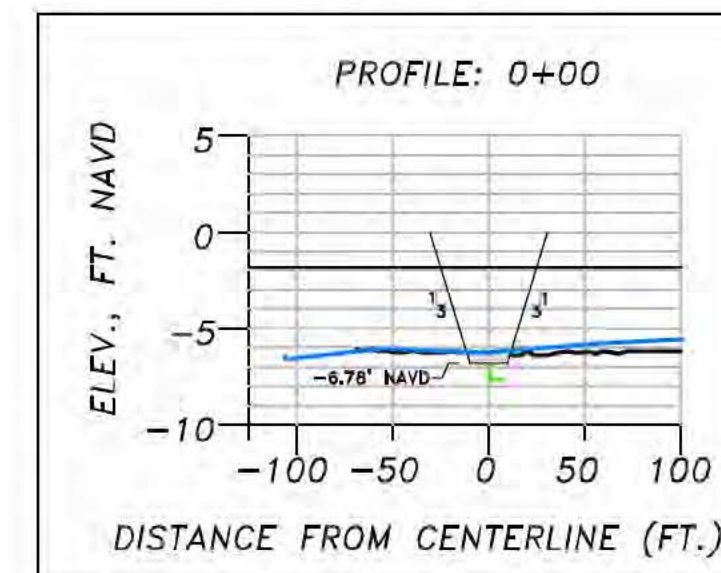
A-A



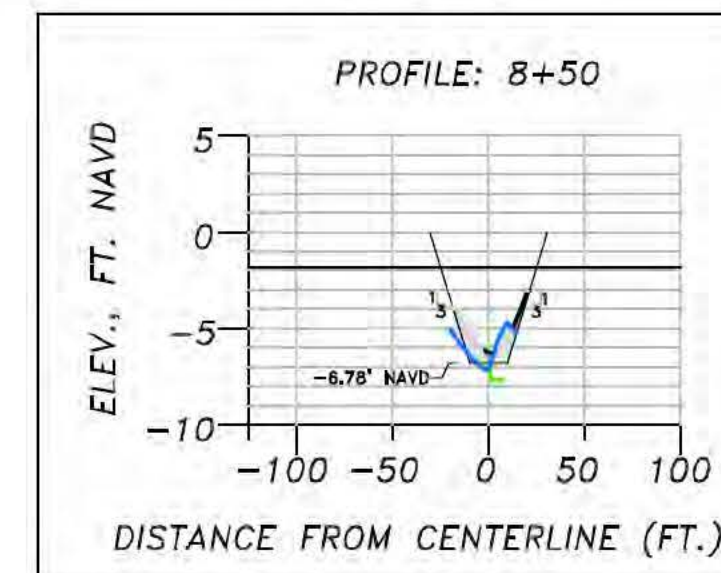
A-A



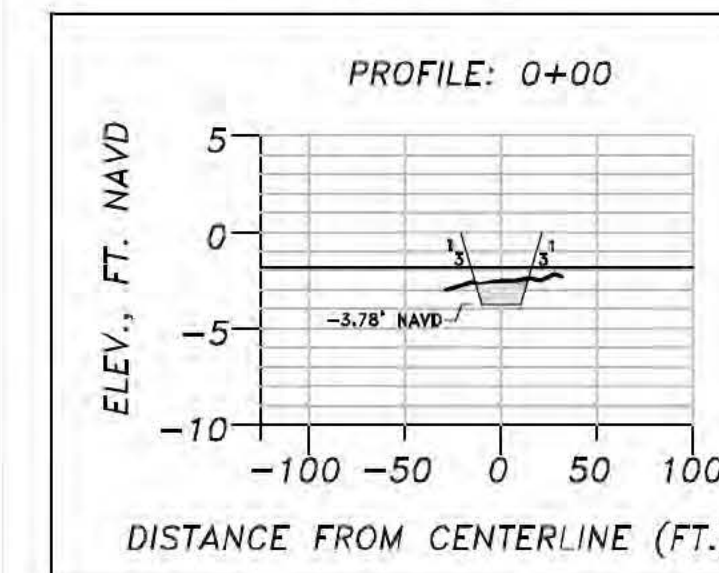
B-B



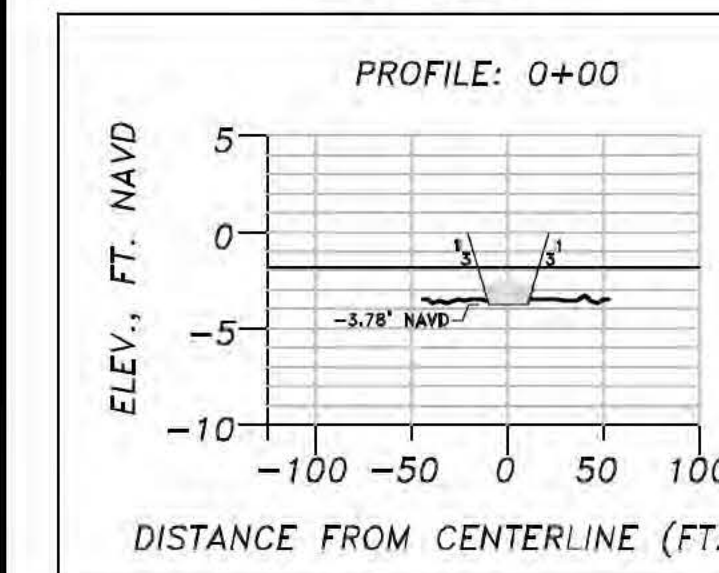
B-B



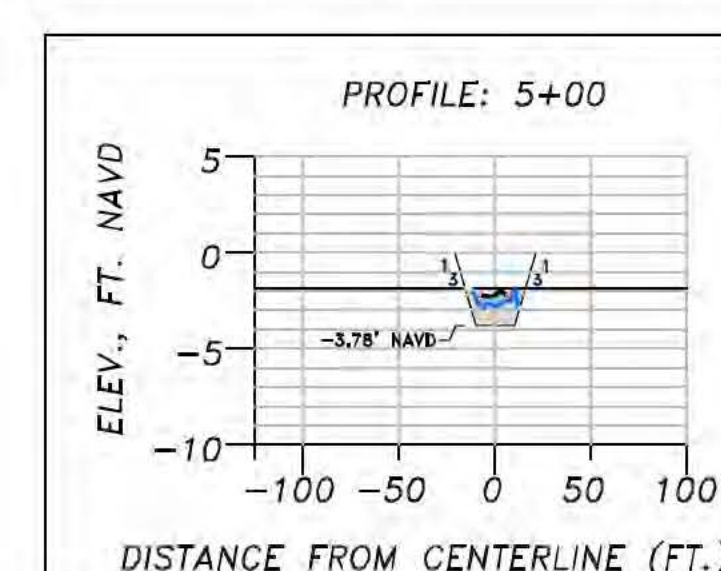
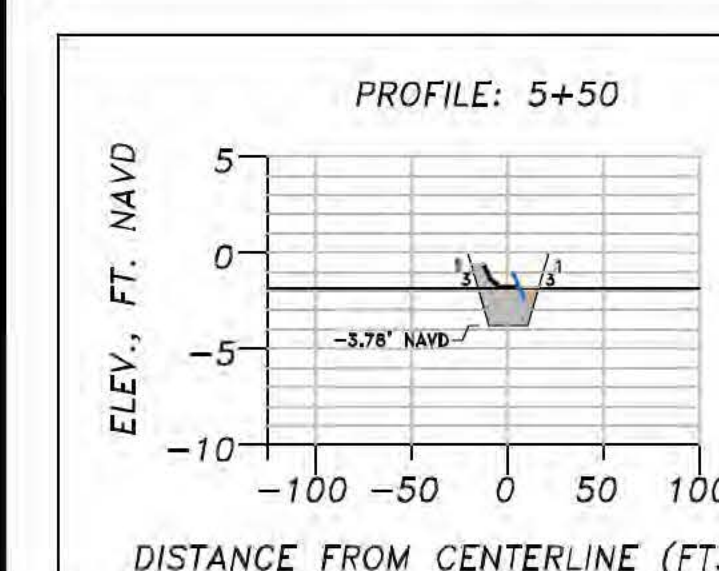
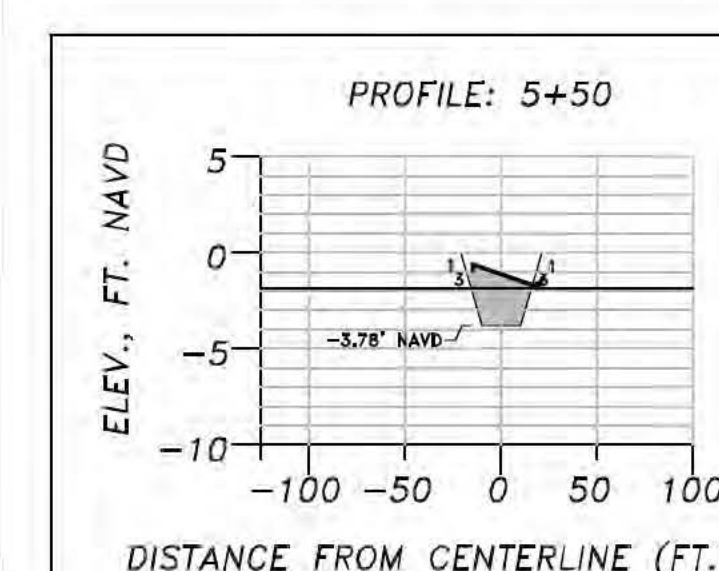
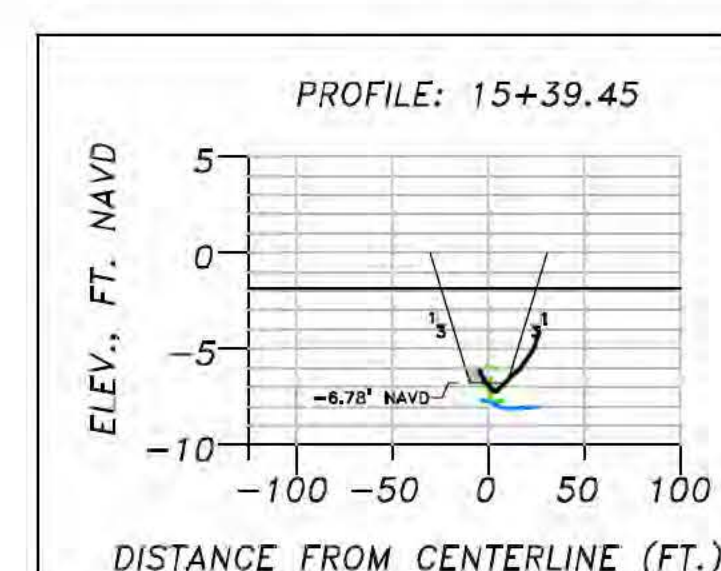
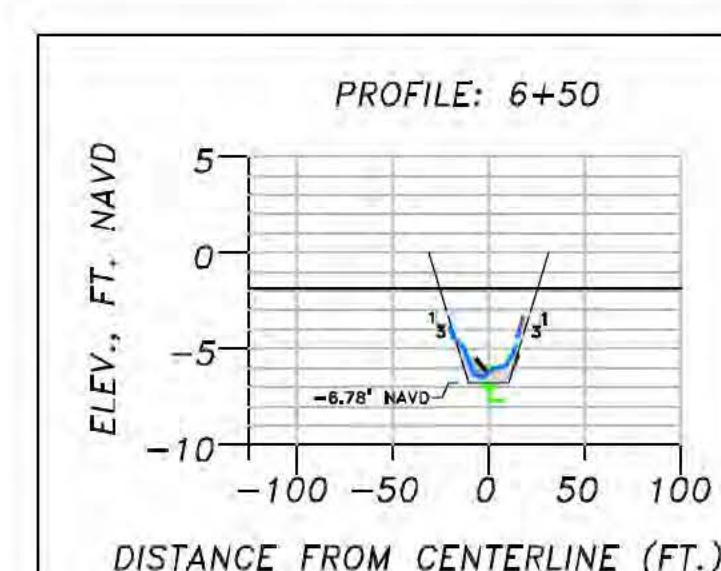
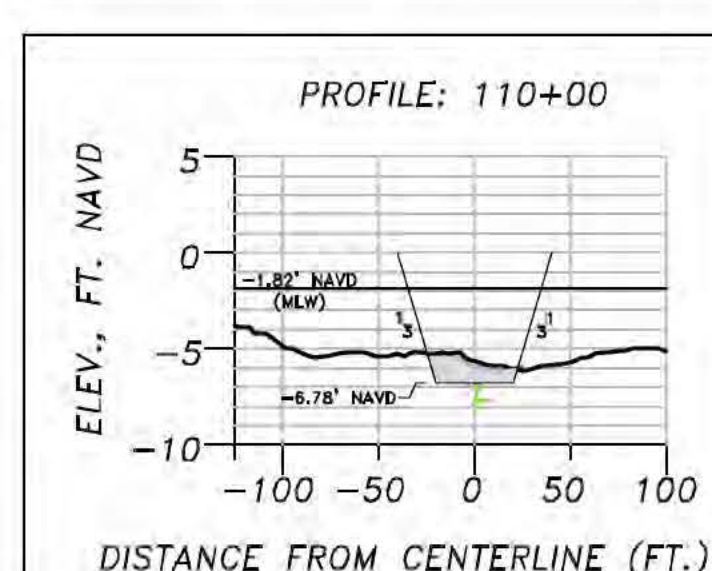
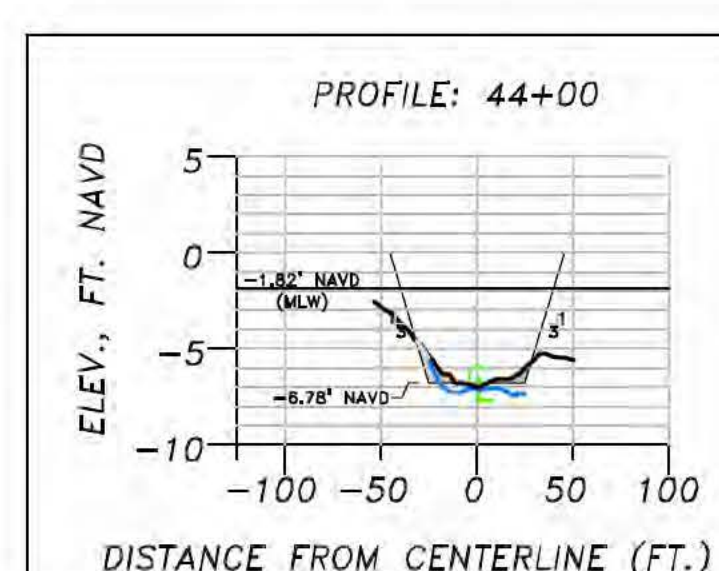
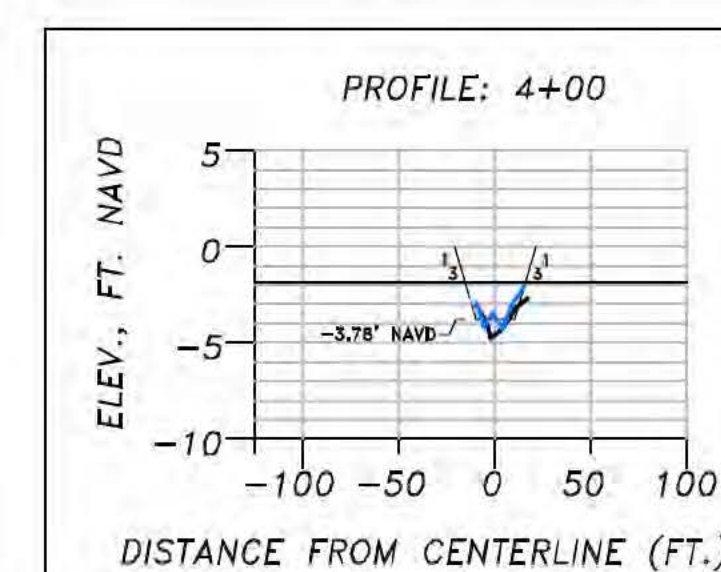
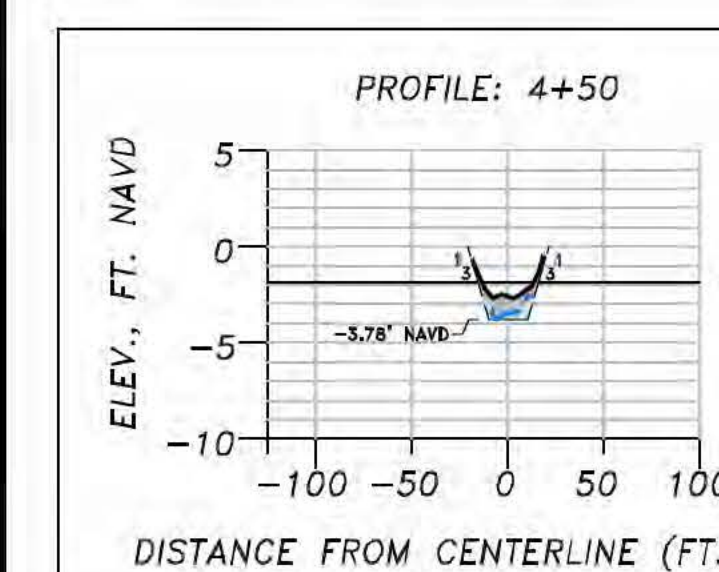
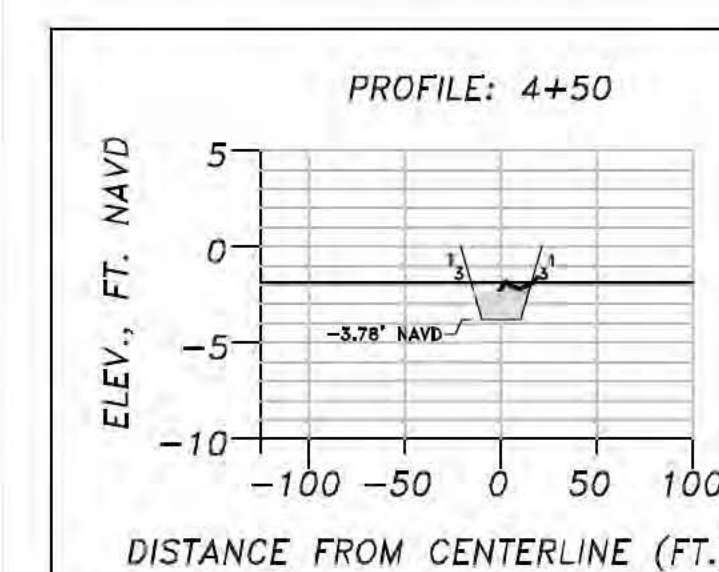
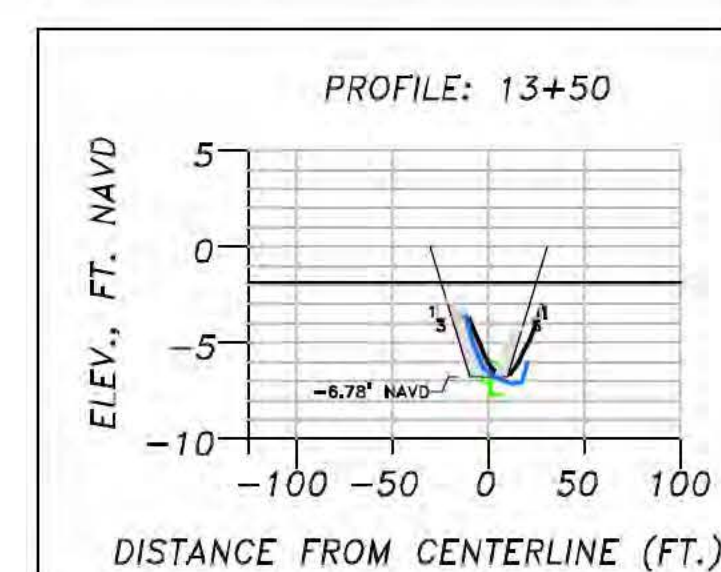
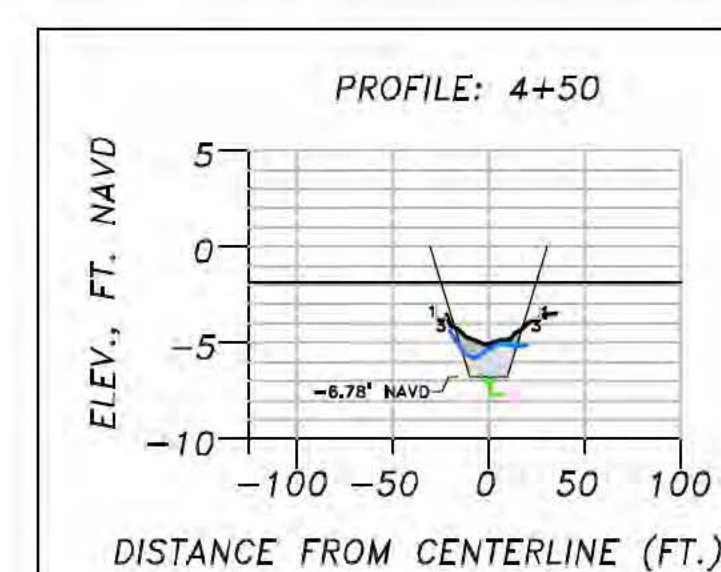
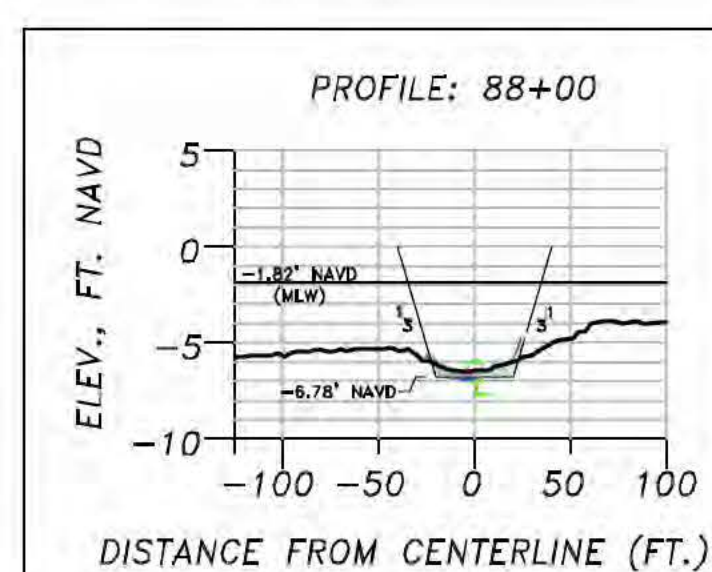
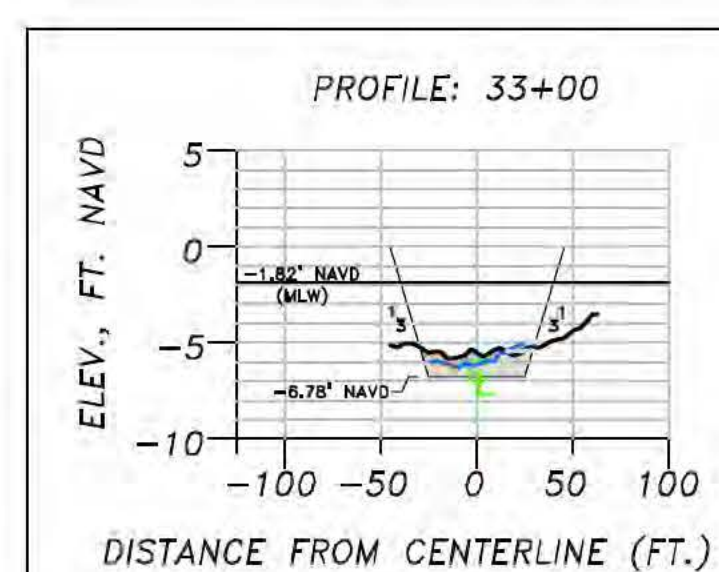
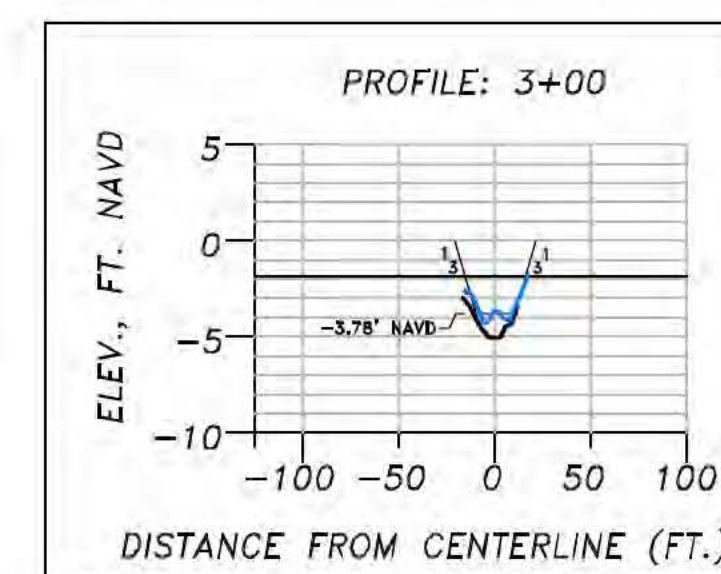
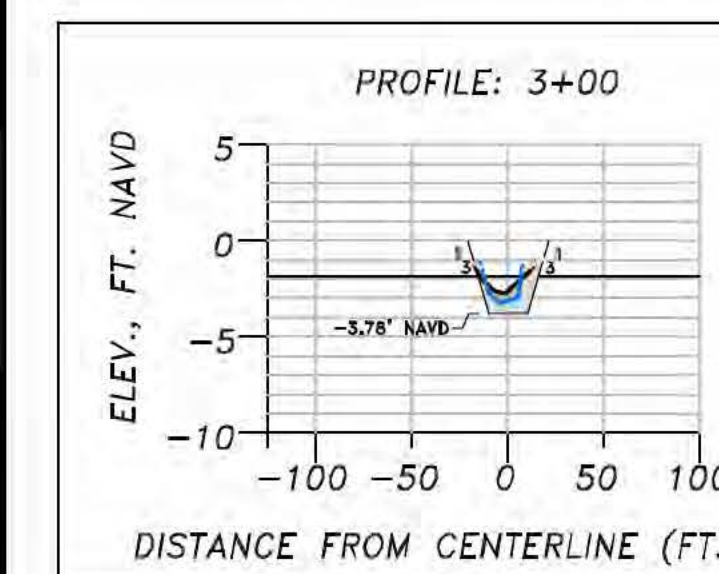
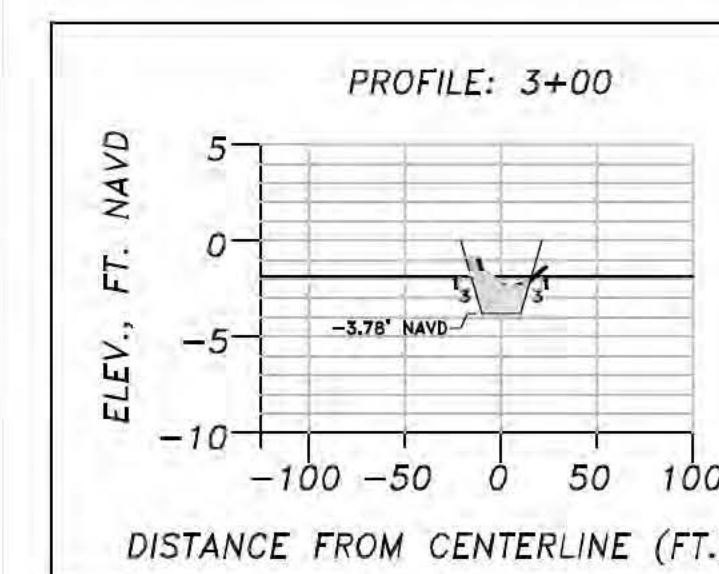
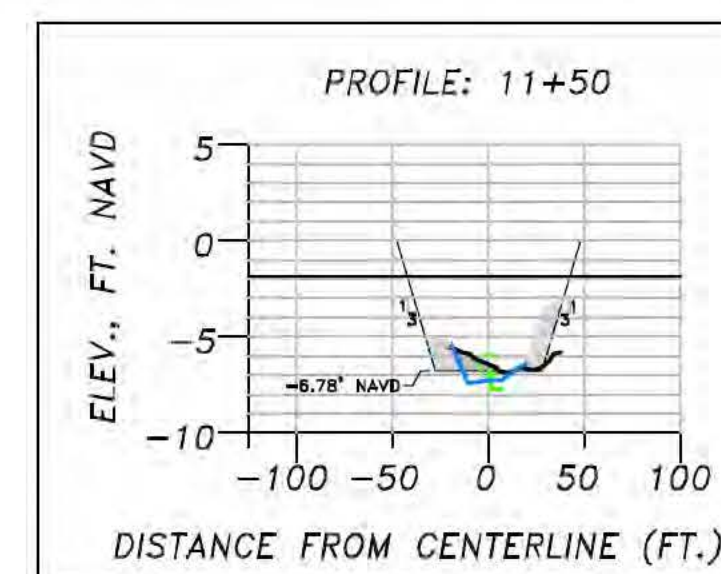
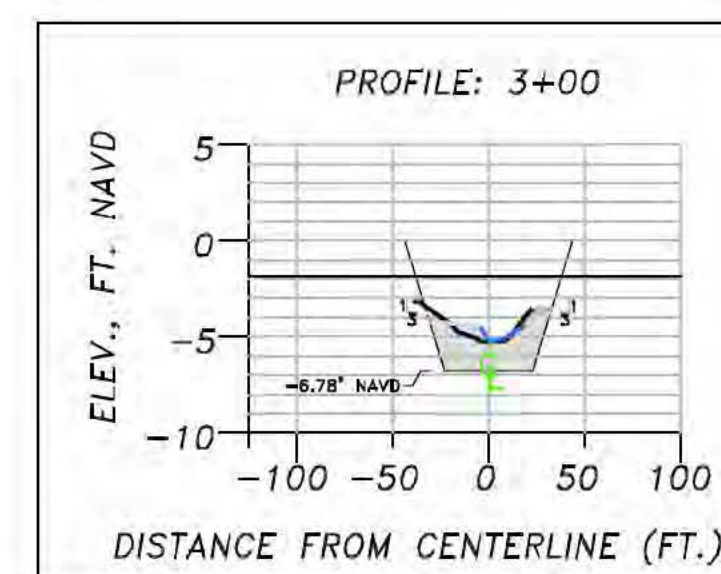
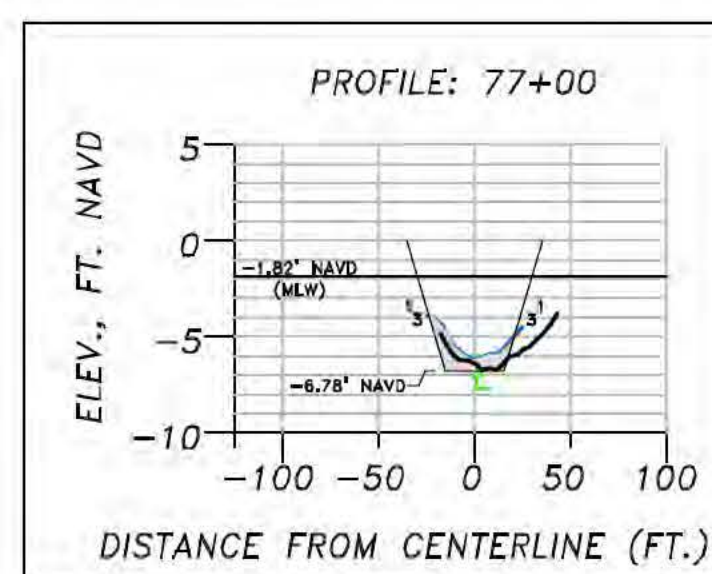
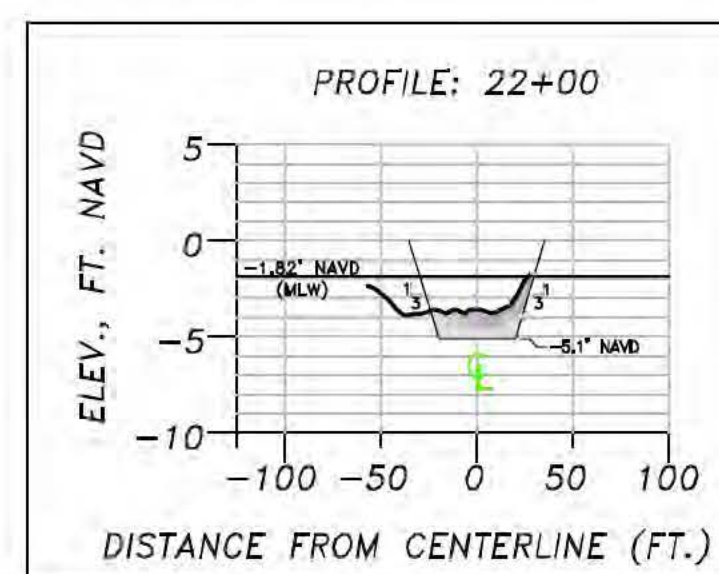
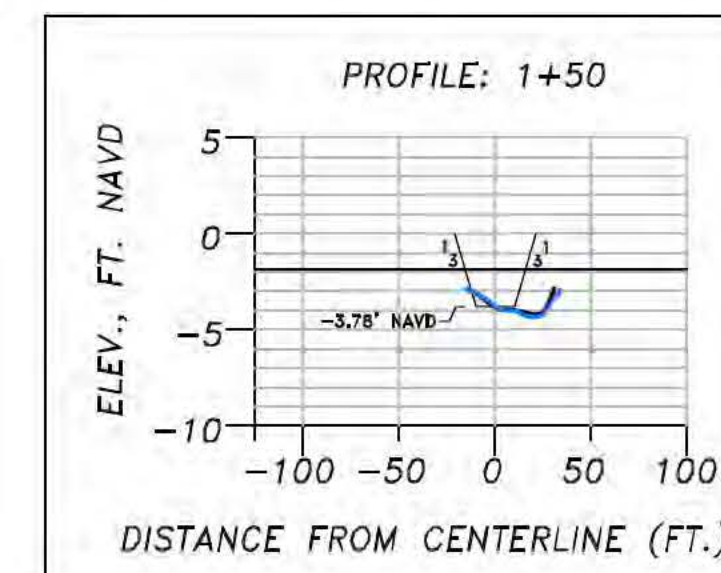
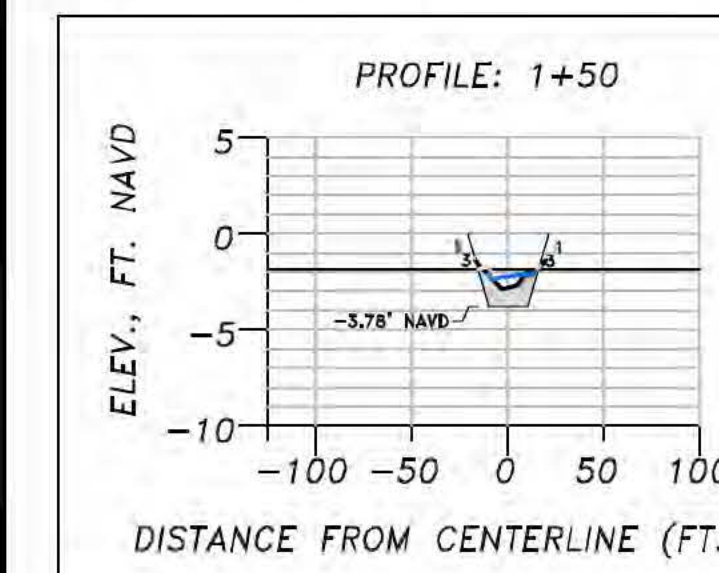
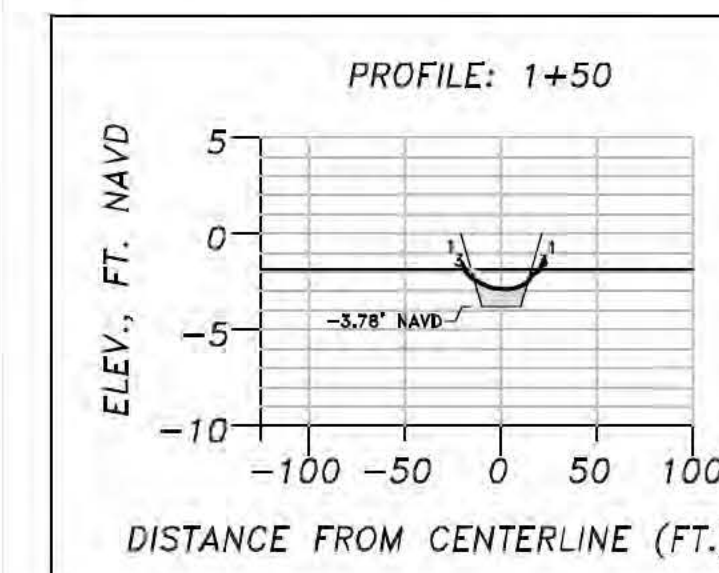
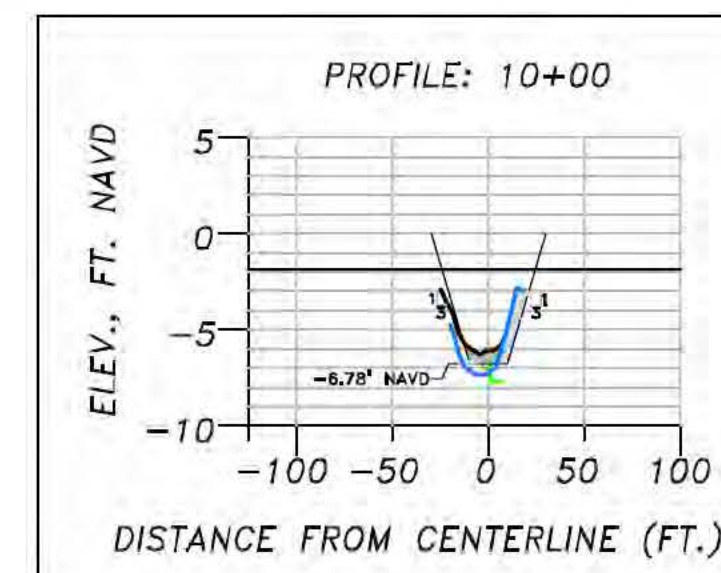
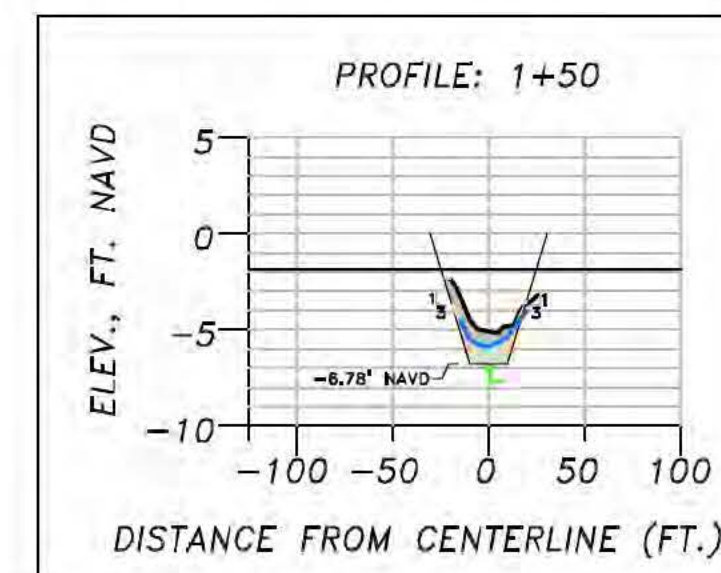
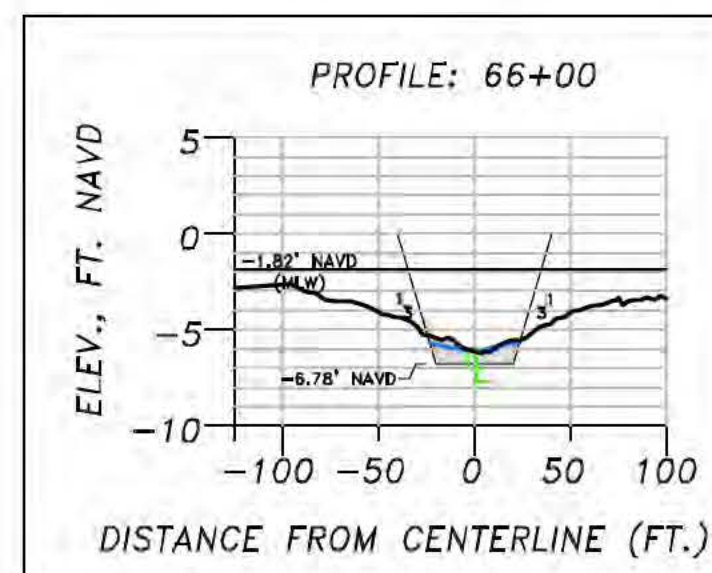
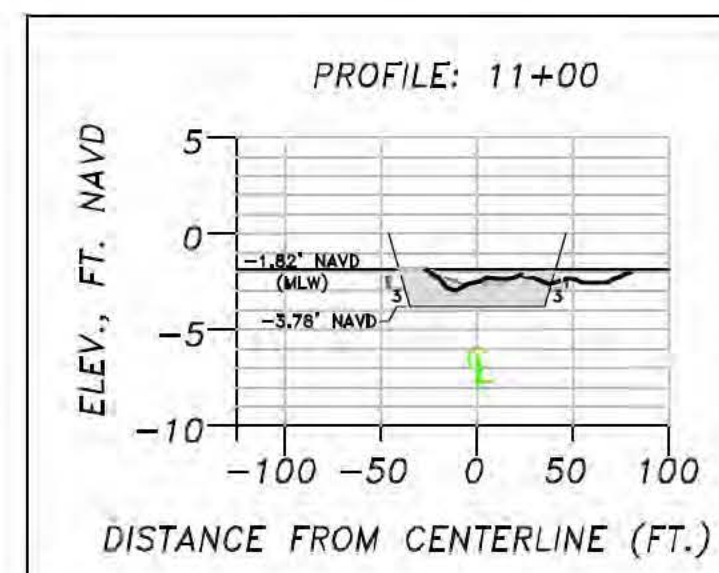
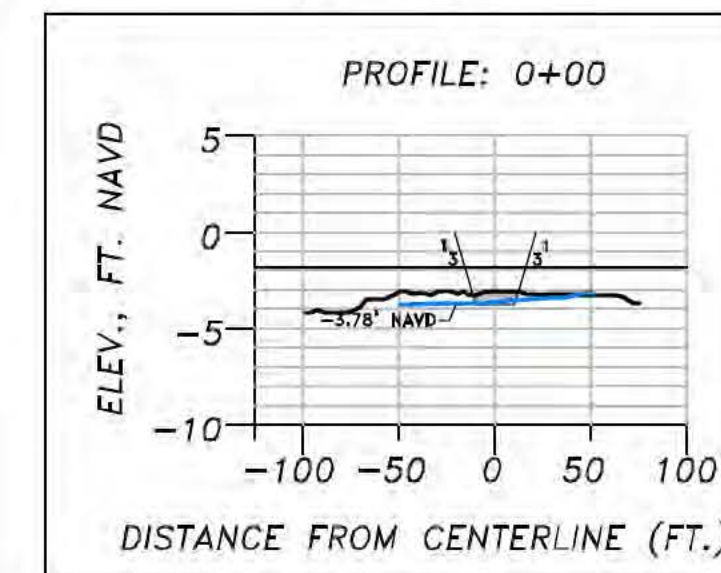
C-C



D-D



E-E



NOTES:

1. CURRENT CROSS SECTIONS BASED ON SURVEY COMPLETED BY SEA DIVERSIFIED, INC. DATED APRIL 2019.
2. POST CONSTRUCTION SURVEY DATA PROVIDED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.
3. DREDGE TEMPLATES ARE BASED ON POST CONSTRUCTION SURVEY FILES PREPARED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.
4. ALL ELEVATIONS ARE IN FEET AND REFERENCE NAVD88.
5. DISTANCES ARE IN FEET.
6. MEAN LOW WATER ELEVATION OBTAINED FROM NOAA.ORG STATION ID NUMBER 8725114.

LEGEND

- APRIL 2019 EXISTING COND., SDI
- MAY 2007 POST CONS., M&E
- VOLUME OF SAND WITHIN TEMPLATE

HALDEMAN CREEK DREDGING
CROSS SECTIONS

FOR: HALDEMAN CREEK MTSU

DATE: 11/21/19

FILE: HALDEMAN_CREEK

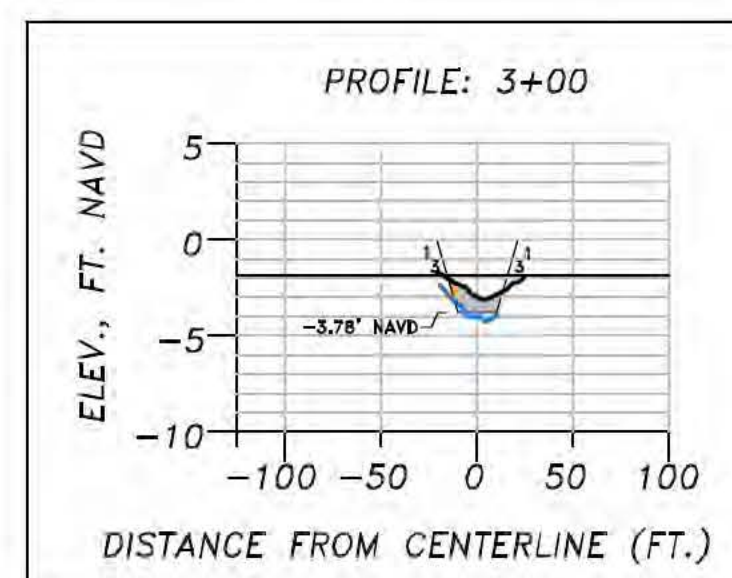
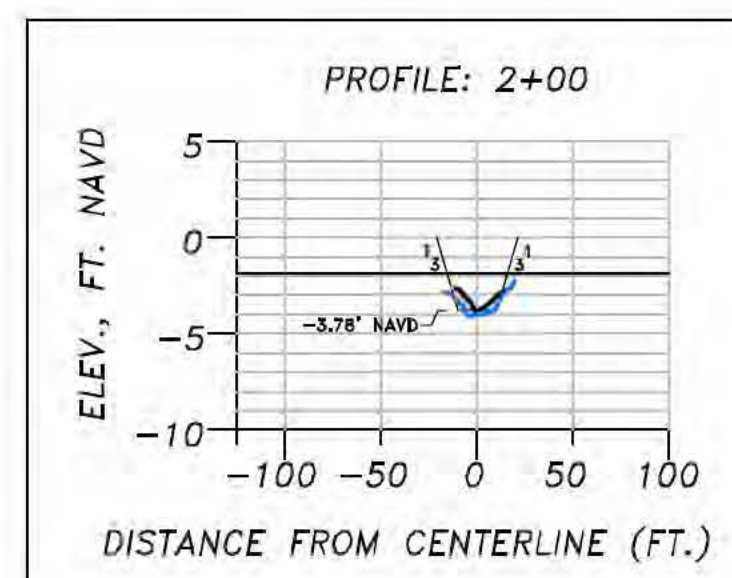
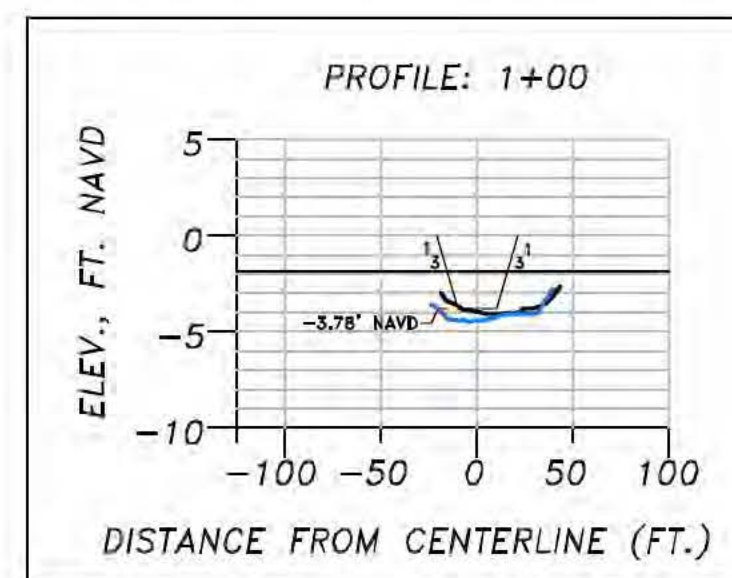
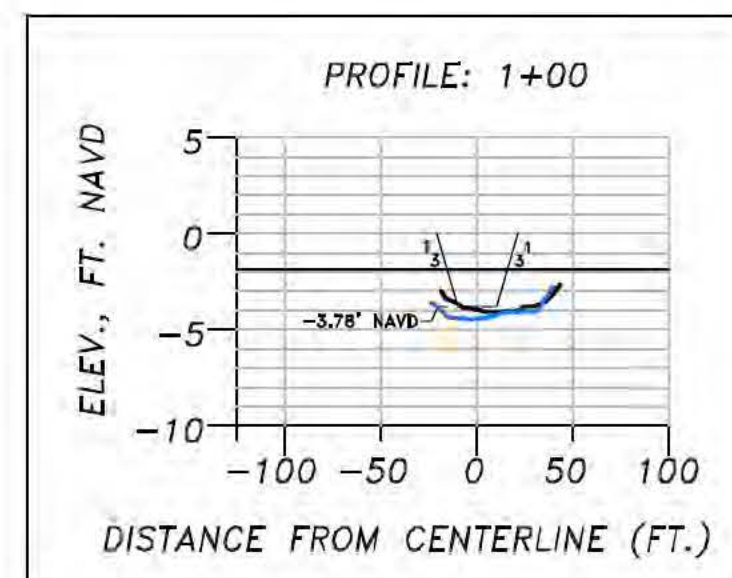
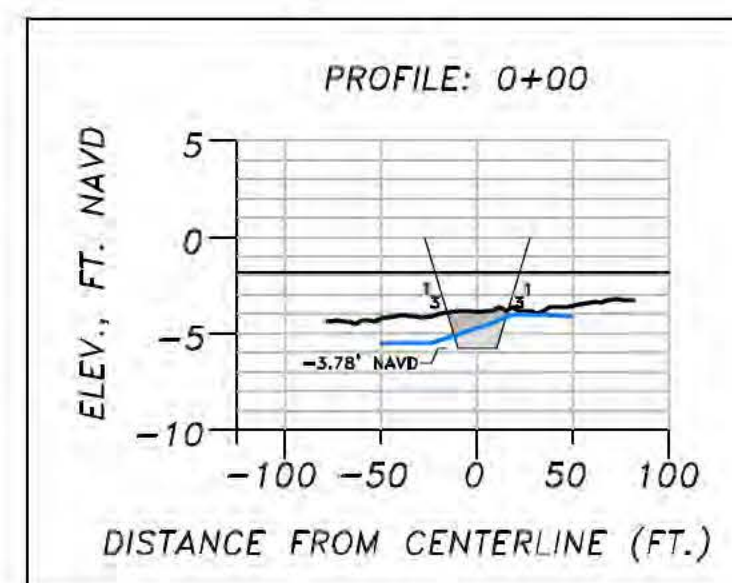
SCALE: SHOWN

PROJECT NO.: 25-026

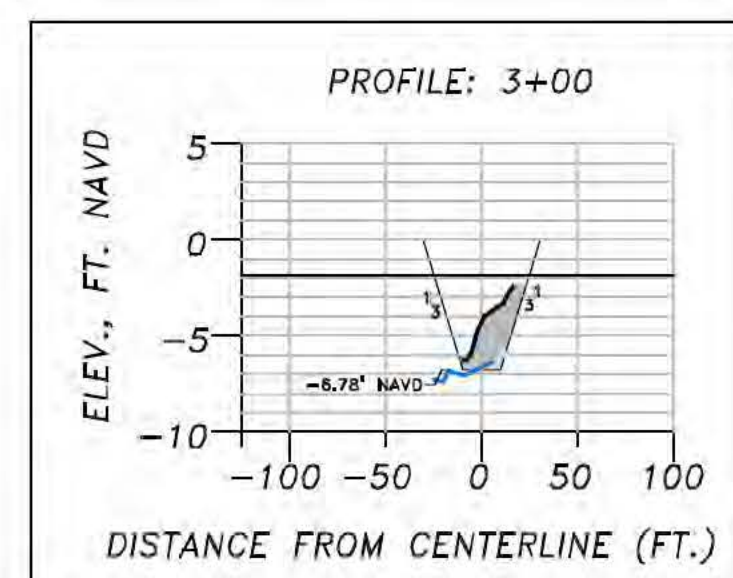
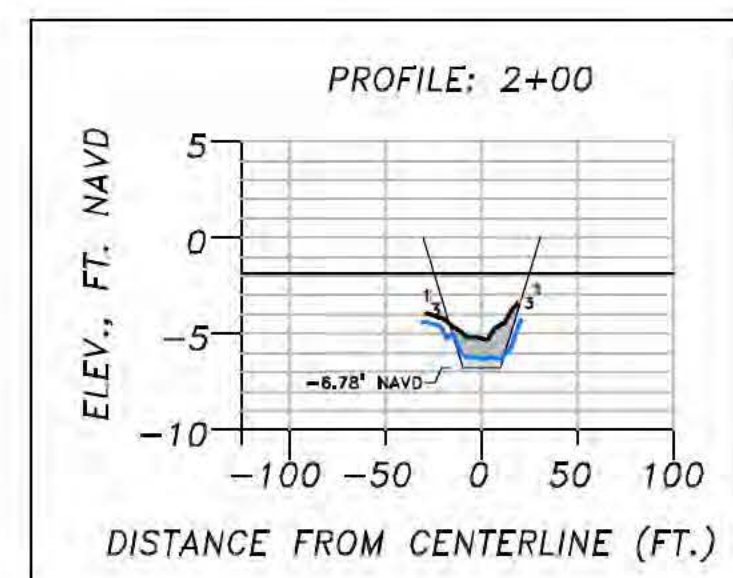
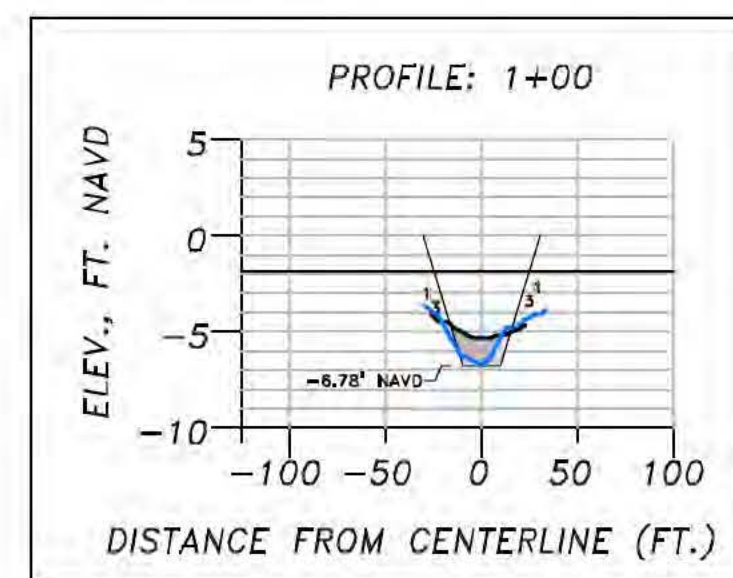
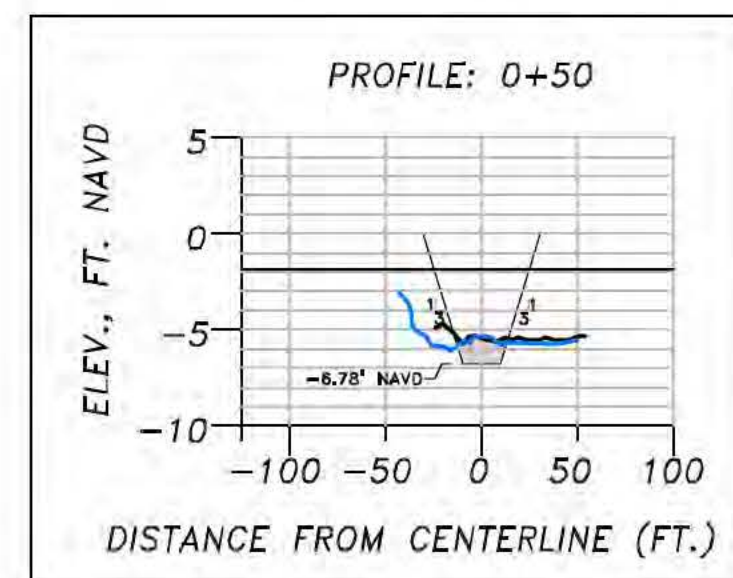
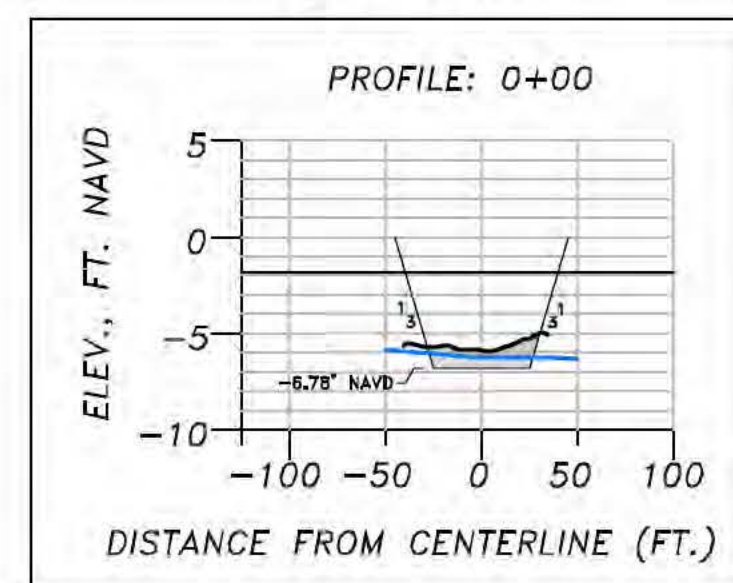
DATUM: NAVD88

SHEET: 5

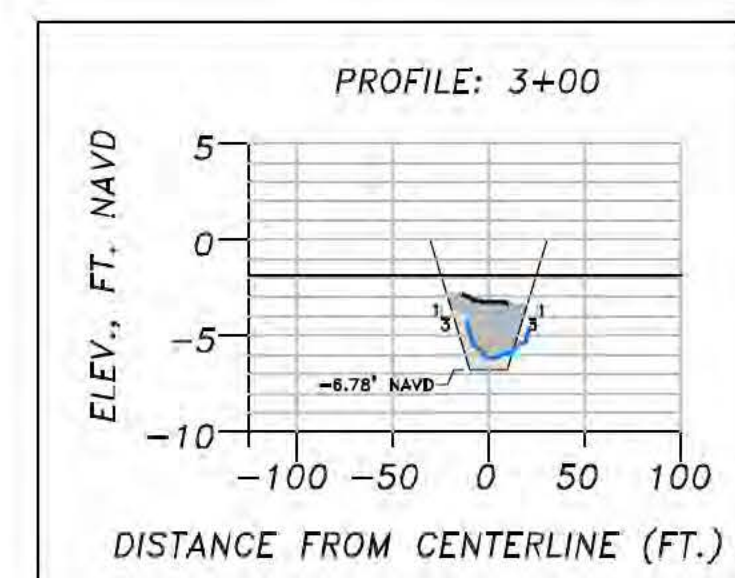
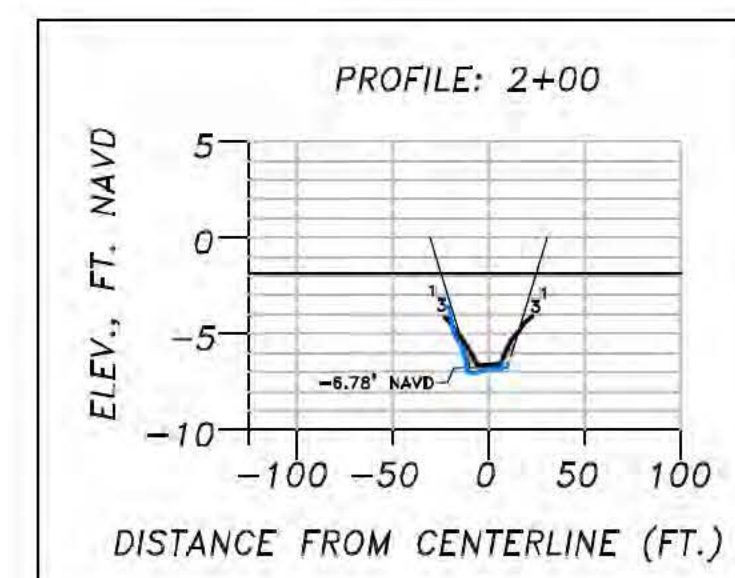
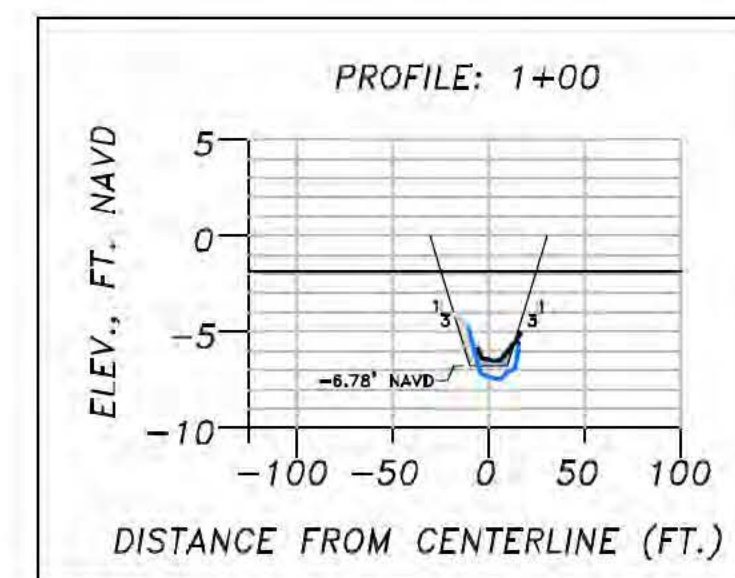
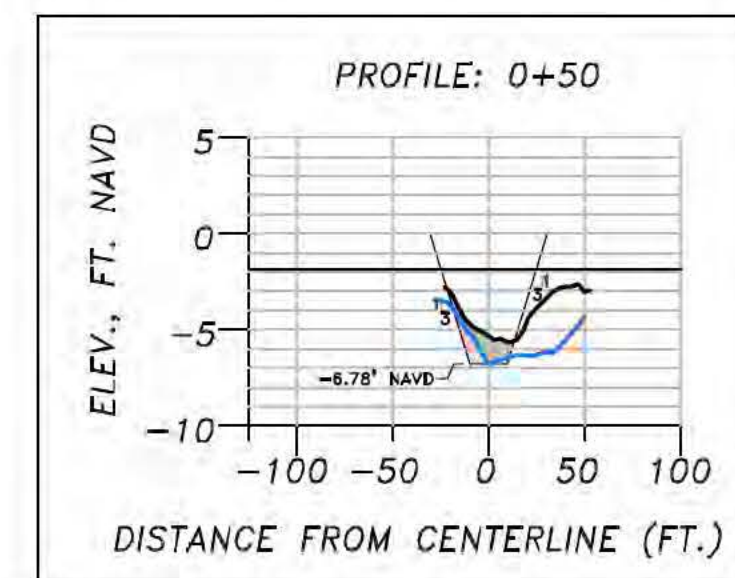
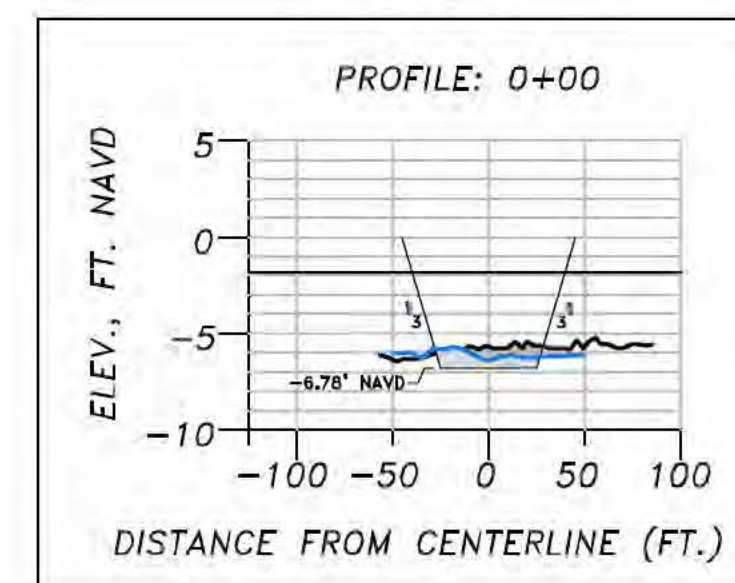
F-F



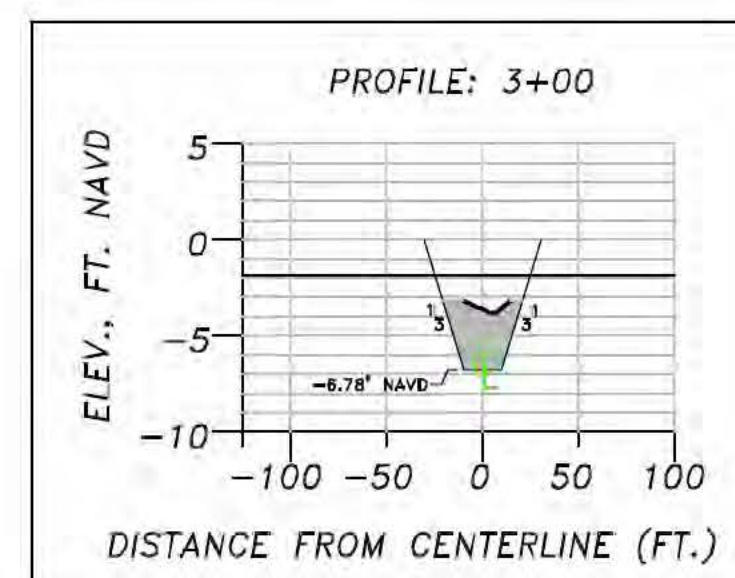
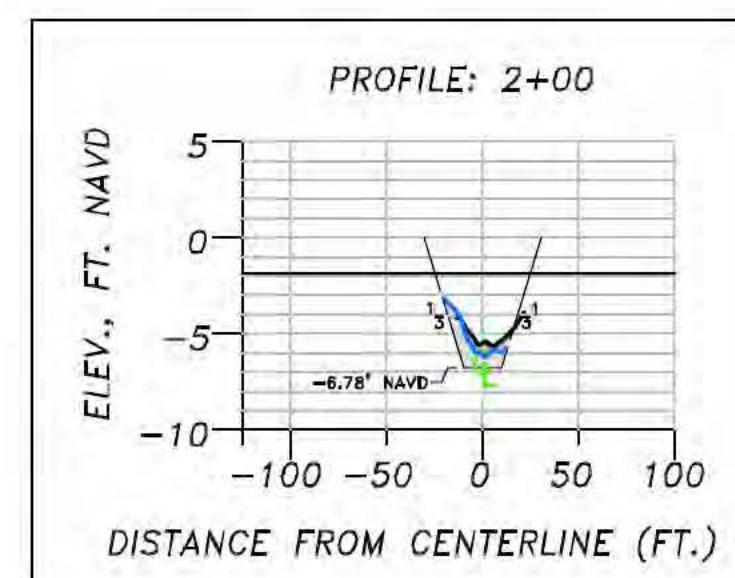
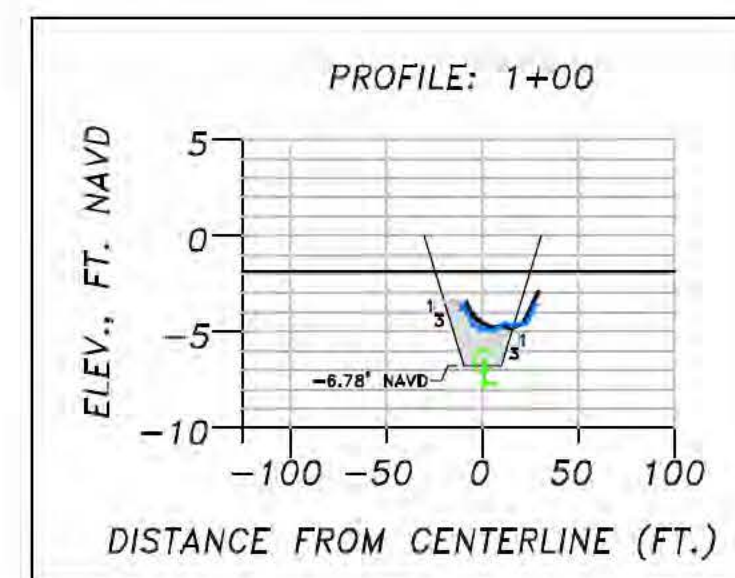
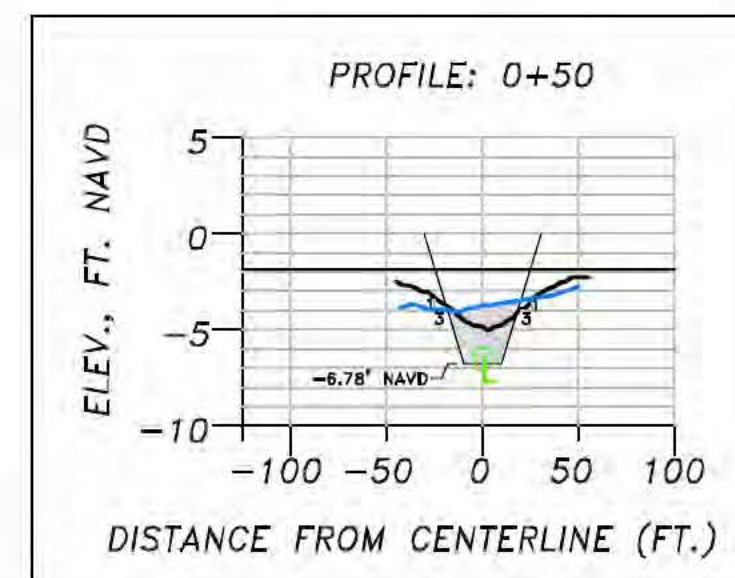
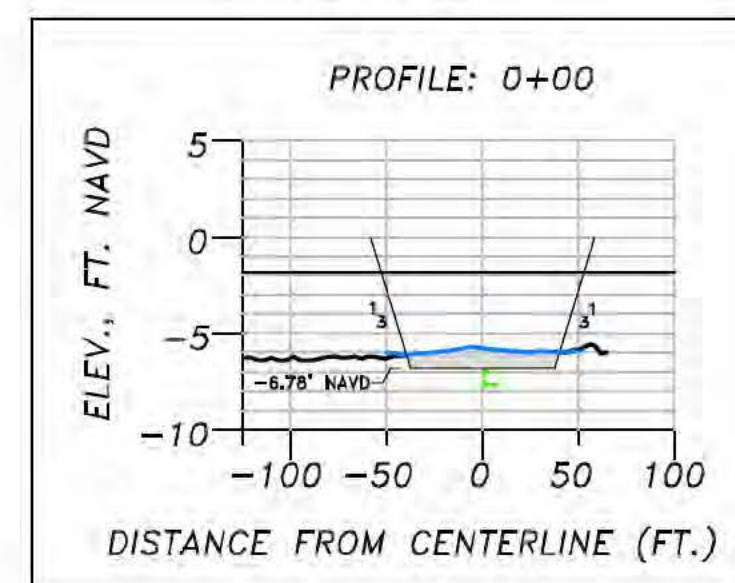
G-G



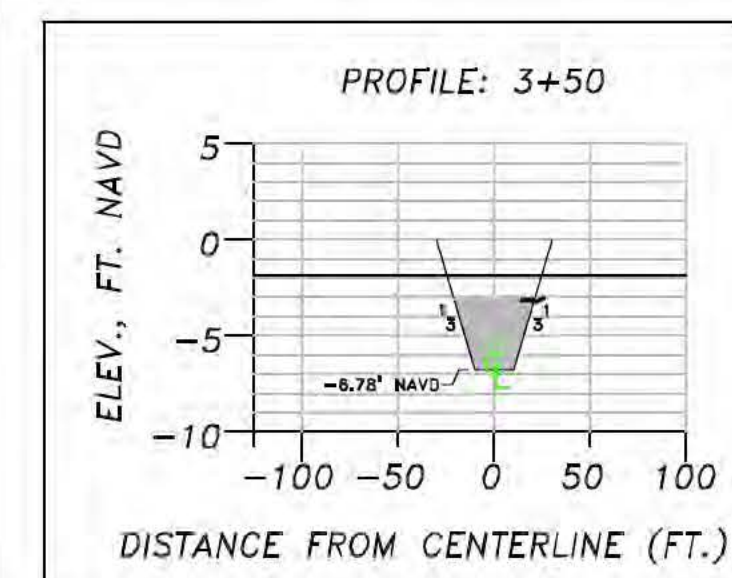
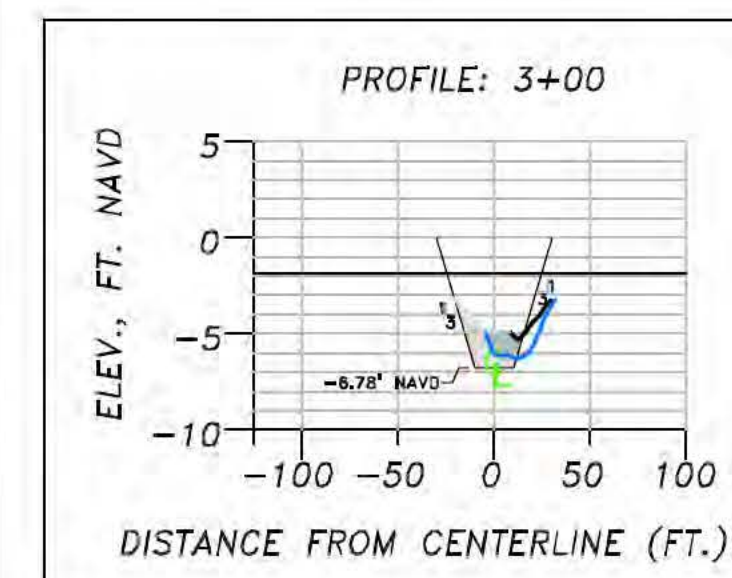
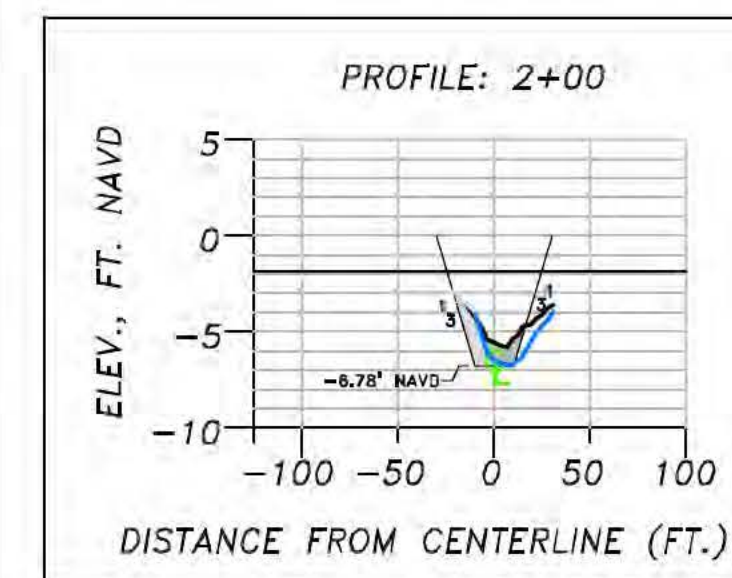
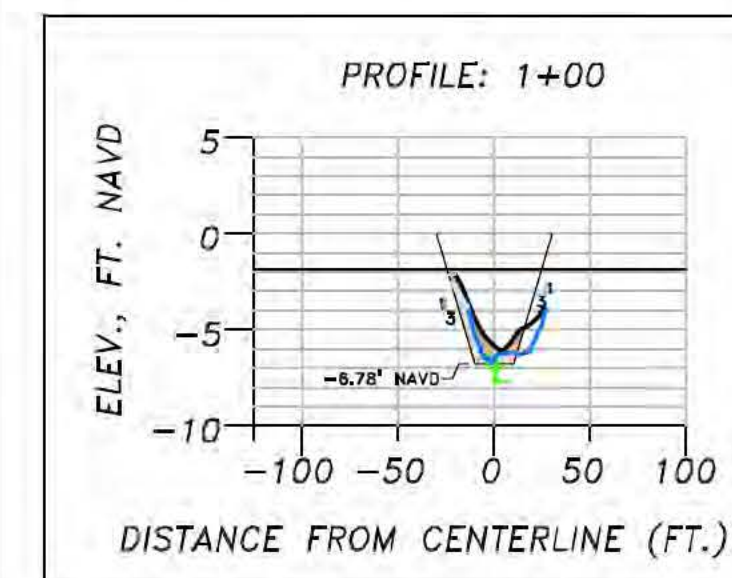
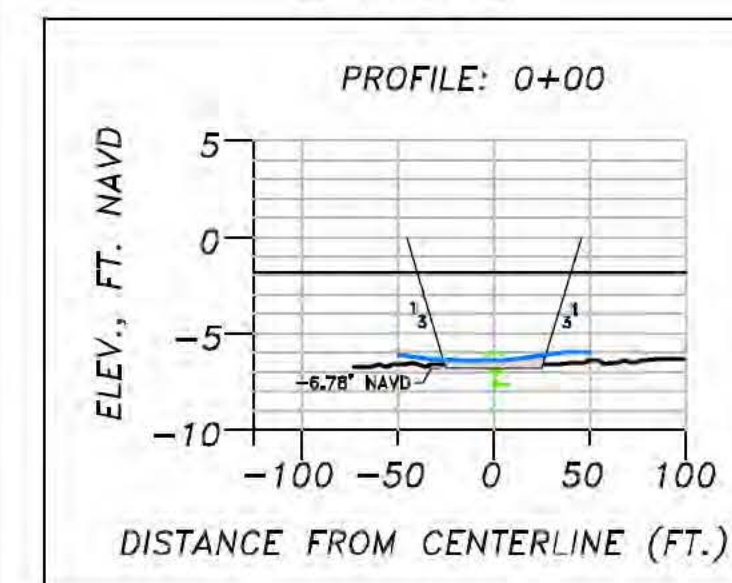
H-H



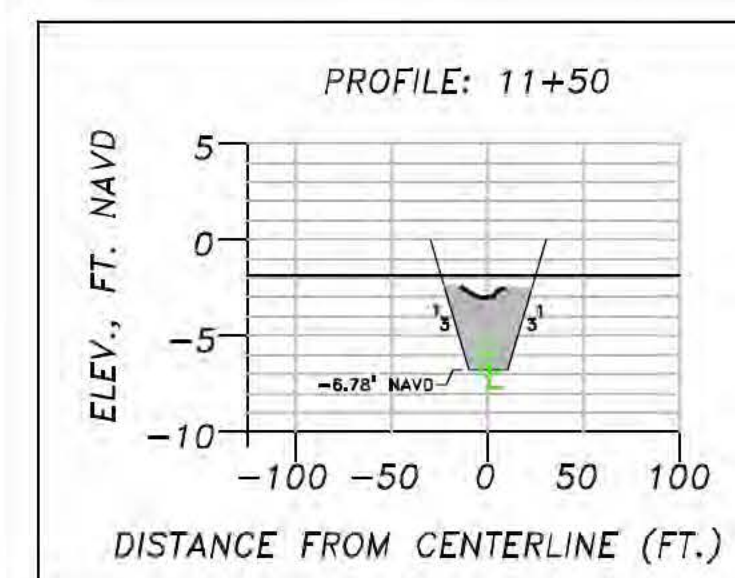
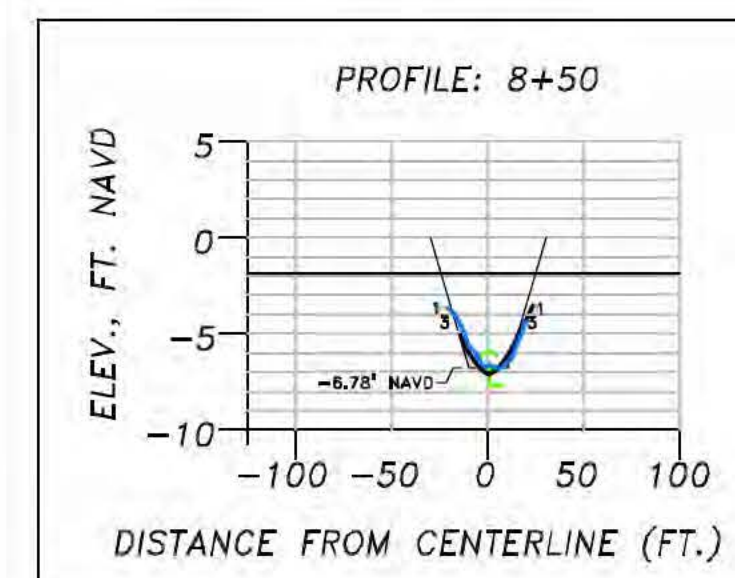
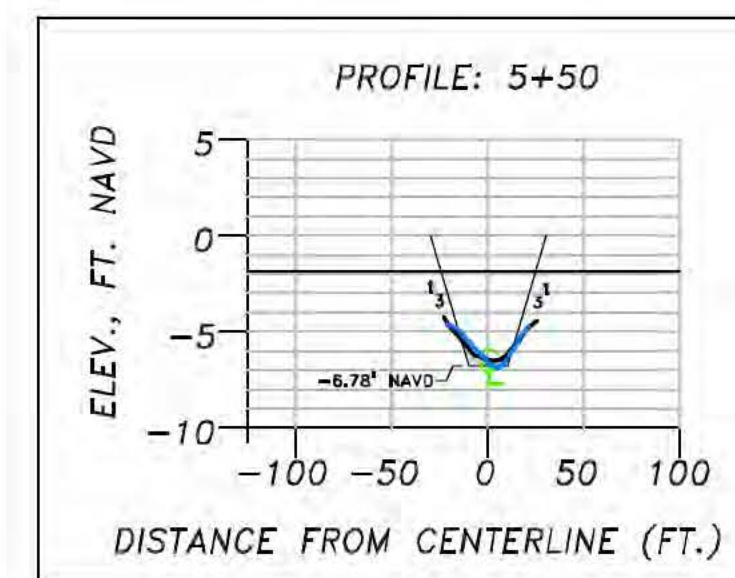
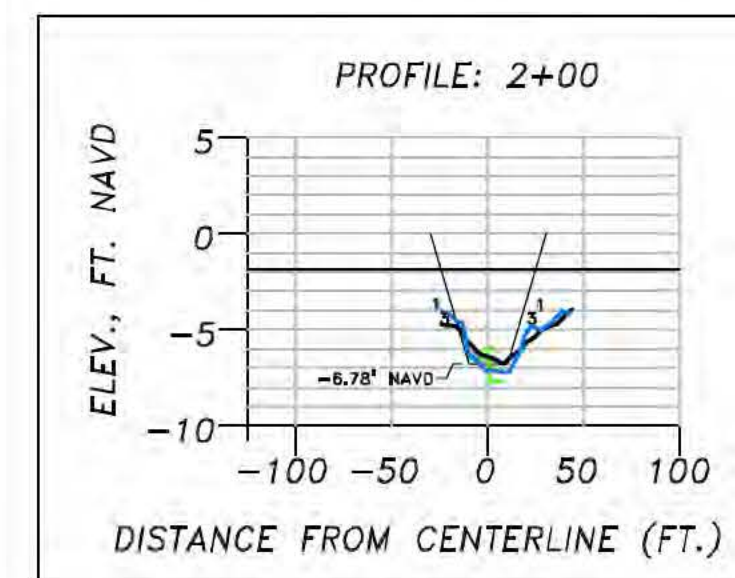
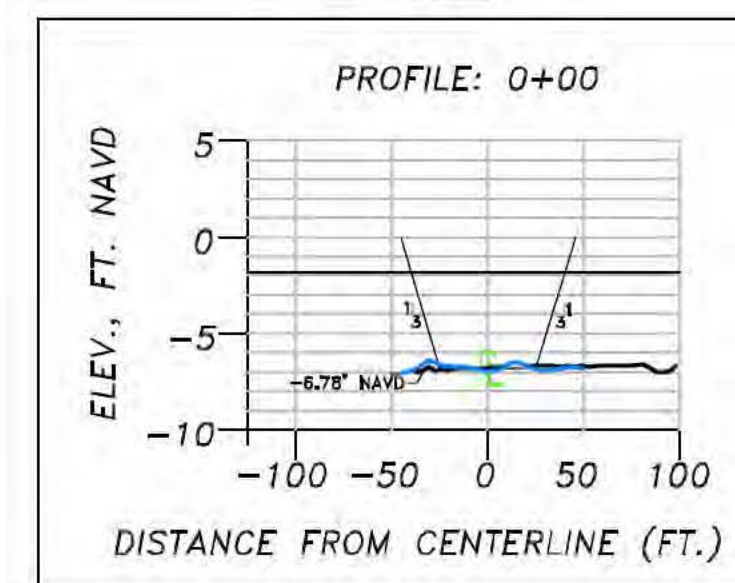
J-J



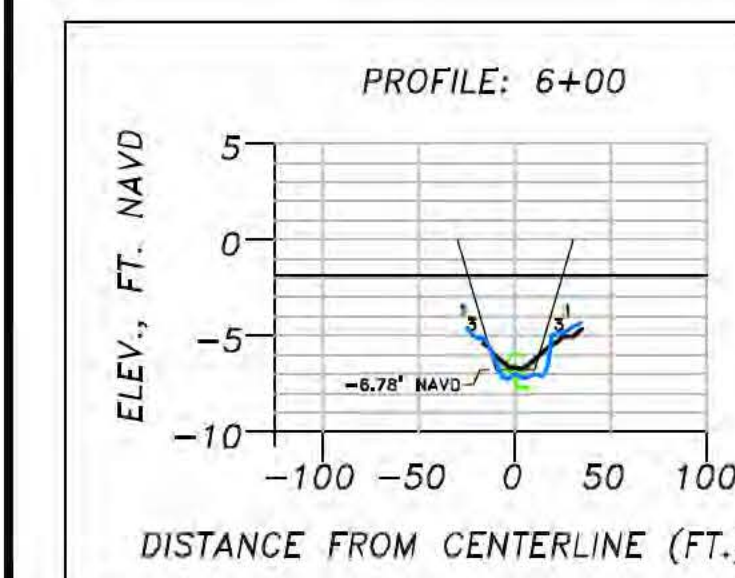
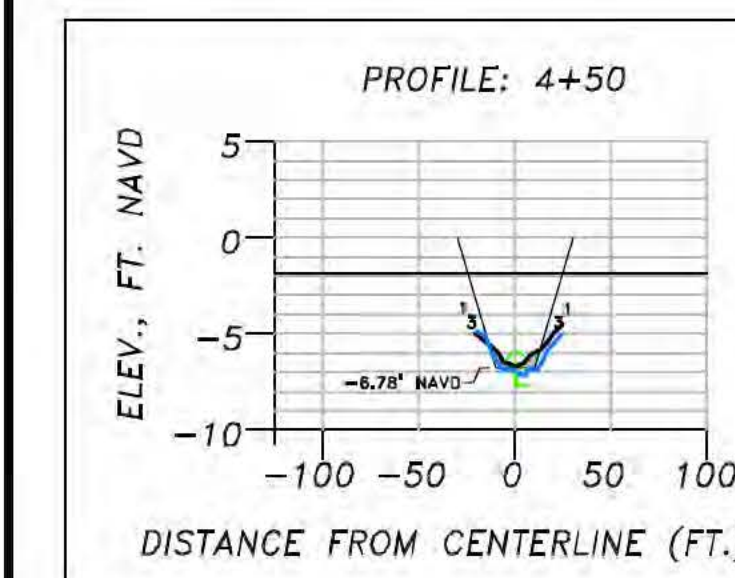
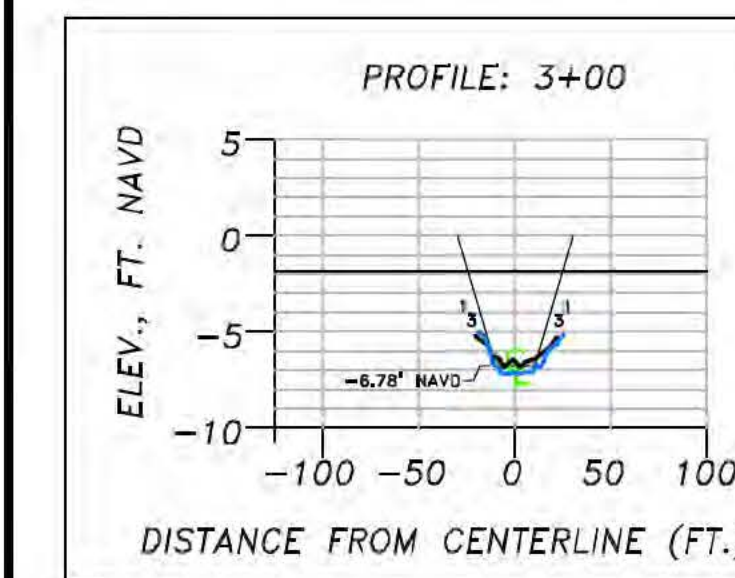
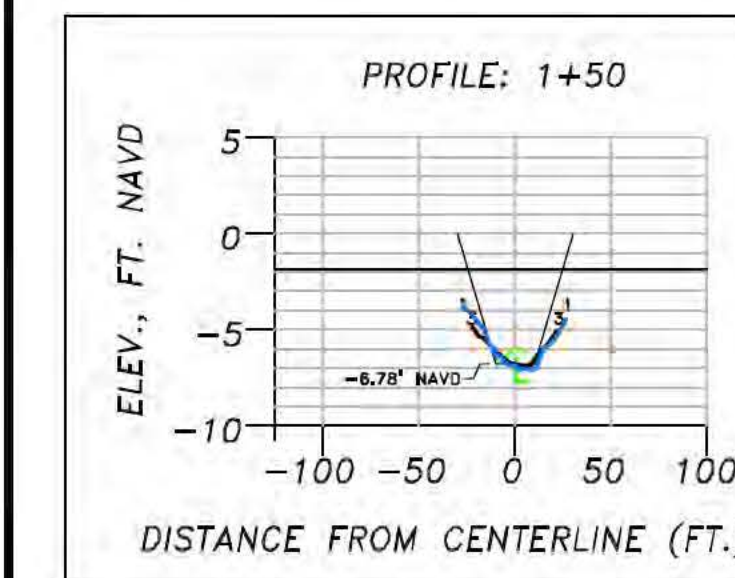
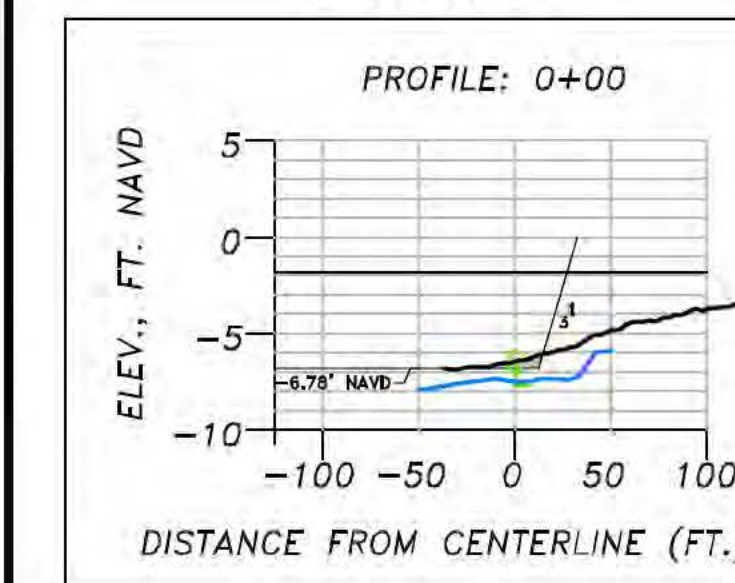
K-K



L-L



M-M



NOTES:

1. CURRENT CROSS SECTIONS BASED ON SURVEY COMPLETED BY SEA DIVERSIFIED, INC. DATED APRIL 2019.
2. POST CONSTRUCTION SURVEY DATA PROVIDED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.
3. DREDGE TEMPLATES ARE BASED ON POST CONSTRUCTION SURVEY FILES PREPARED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.
4. ALL ELEVATIONS ARE IN FEET AND REFERENCE NAVD88.
5. DISTANCES ARE IN FEET.
6. MEAN LOW WATER ELEVATION OBTAINED FROM NOAA.ORG STATION ID NUMBER 8725114.

LEGEND

- APRIL 2019 EXISTING COND., SDI
- MAY 2007 POST CONS., M&E
- VOLUME OF SAND WITHIN TEMPLATE

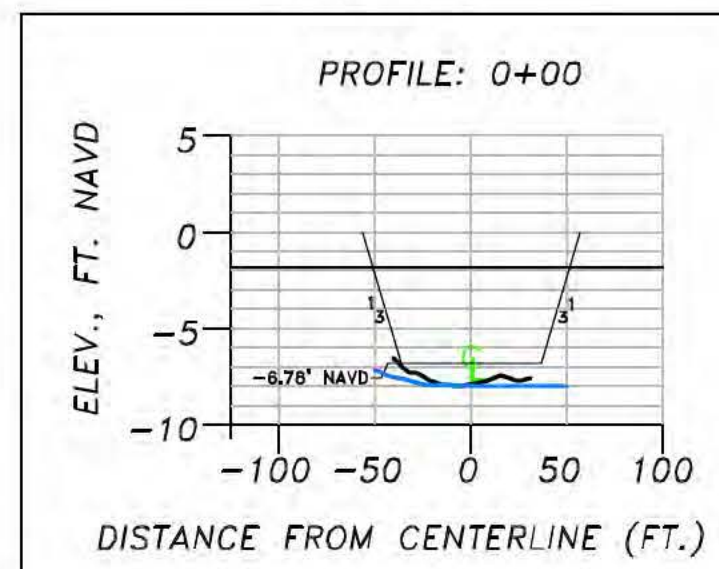


HALDEMAN CREEK DREDGING CROSS SECTIONS

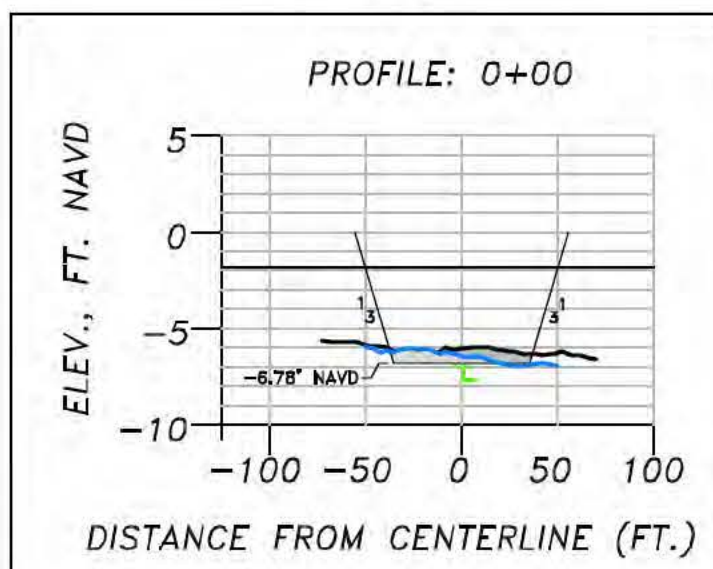
FOR: HALDEMAN CREEK MTSU

DATE: 11/21/19	FILE: HALDEMAN_CREEK	SCALE: SHOWN
PROJECT NO.: 25-026	DATUM: NAVD88	SHEET: 6

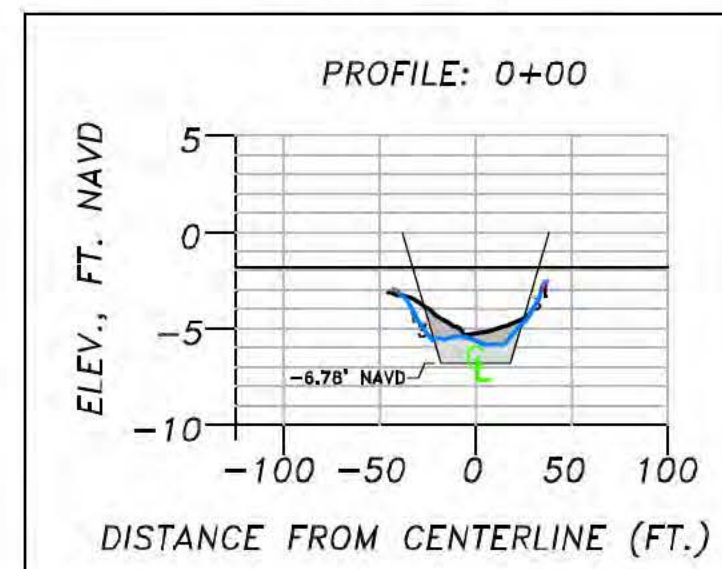
N-N



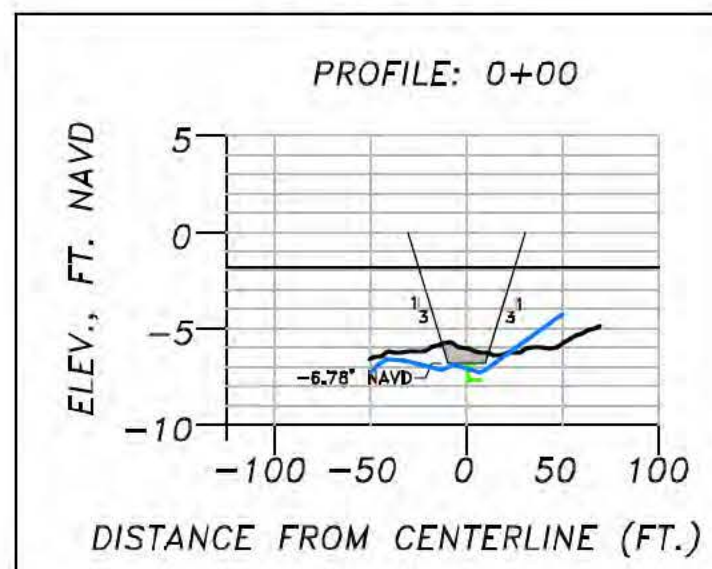
P-P



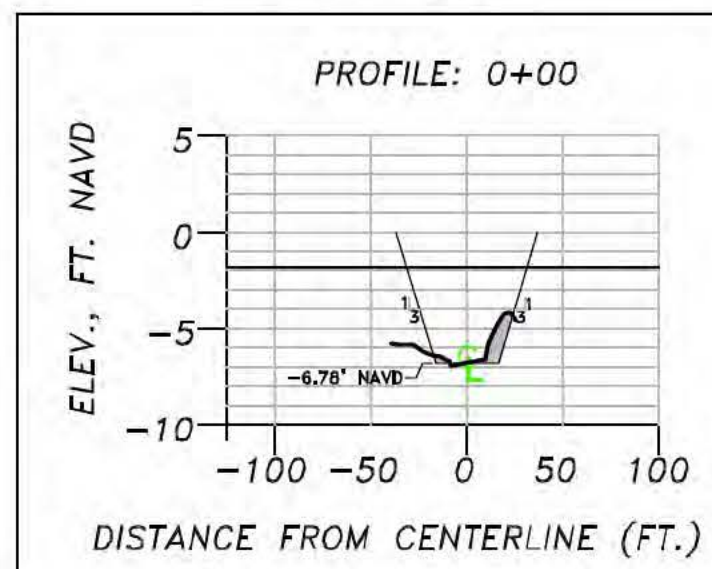
Q-Q



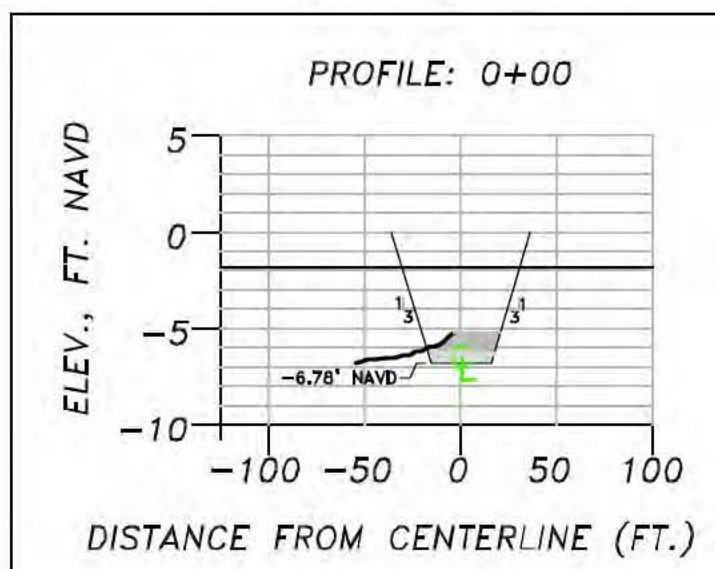
R-R



S-S



T-T



Volume Computation Section A-A					Volume Computation Section A-A				
Station Interval	Eff. Dist.	Ave. Area	Ave. Volume	(CY/FT)	(CY)	Station Interval	Eff. Dist.	Ave. Area	Ave. Volume
0+00 to 0+50	25	0.00	0.0			59+50 to 60+00	50	2.12	105.9
0+50 to 1+00	50	0.00	0.0			60+00 to 60+50	50	1.42	71.1
1+00 to 1+50	50	0.57	28.3			60+50 to 61+00	50	1.47	73.7
1+50 to 2+00	50	0.65	32.7			61+00 to 61+50	50	1.50	75.0
2+00 to 2+50	50	0.67	33.7			61+50 to 62+00	50	1.52	76.0
2+50 to 3+00	50	0.50	25.2			62+00 to 62+50	50	1.22	60.9
3+00 to 3+50	50	0.77	38.3			62+50 to 63+00	50	1.04	51.9
3+50 to 4+00	50	0.89	44.4			63+00 to 63+50	50	1.22	61.2
4+00 to 4+50	50	0.78	38.9			63+50 to 64+00	50	1.41	70.5
4+50 to 5+00	50	0.59	29.6			64+00 to 64+50	50	1.64	82.1
5+00 to 5+50	50	1.32	66.0			64+50 to 65+00	50	1.89	94.7
5+50 to 6+00	50	0.52	26.0			65+00 to 65+50	50	1.96	98.1
6+00 to 6+50	50	1.01	50.6			65+50 to 66+00	50	2.18	109.0
6+50 to 7+00	50	1.61	80.3			66+00 to 66+50	50	2.31	115.6
7+00 to 7+50	50	1.86	93.0			66+50 to 67+00	50	2.26	113.2
7+50 to 8+00	50	1.64	81.8			67+00 to 67+50	50	1.91	95.5
8+00 to 8+50	50	1.54	76.8			67+50 to 68+00	50	2.07	103.3
8+50 to 9+00	50	1.52	76.1			68+00 to 68+50	50	2.01	100.6
9+00 to 9+50	50	1.51	75.7			68+50 to 69+00	50	1.50	75.0
9+50 to 10+00	50	1.98	98.7			69+00 to 69+50	50	1.64	82.0
10+00 to 10+50	50	2.25	112.7			69+50 to 70+00	50	1.76	88.0
10+50 to 11+00	50	3.14	157.2			70+00 to 70+50	50	1.72	86.0
11+00 to 11+50	50	2.96	148.0			70+50 to 71+00	50	1.98	99.1
11+50 to 12+00	50	1.89	94.4			71+00 to 71+50	50	2.17	108.3
12+00 to 12+50	50	1.77	88.4			71+50 to 72+00	50	2.10	105.0
12+50 to 13+00	50	1.53	76.5			72+00 to 72+50	50	2.13	106.7
13+00 to 13+50	50	1.20	60.0			72+50 to 73+00	50	1.88	94.1
13+50 to 14+00	50	1.02	51.0			73+00 to 73+50	50	1.54	77.2
14+00 to 14+50	50	1.81	90.5			73+50 to 74+00	50	1.66	82.9
14+50 to 15+00	50	1.71	85.7			74+00 to 74+50	50	1.53	76.4
15+00 to 15+50	50	0.88	44.2			74+50 to 75+00	50	1.34	66.9
15+50 to 16+00	50	1.05	52.6			75+00 to 75+50	50	1.40	69.9
16+00 to 16+50	50	1.18	58.9			75+50 to 76+00	50	1.45	72.5
16+50 to 17+00	50	1.08	54.1			76+00 to 76+50	50	1.80	90.1
17+00 to 17+50	50	1.10	55.2			76+50 to 77+00	50	2.16	107.9
17+50 to 18+00	50	1.23	61.5			77+00 to 77+50	50	1.94	97.1
18+00 to 18+50	50	1.14	56.8			77+50 to 78+00	50	1.27	63.7
18+50 to 19+00	50	0.91	45.5			78+00 to 78+50	50	1.27	63.7
19+00 to 19+50	50	0.90	45.0			78+50 to 79+00	50	1.46	73.2
19+50 to 20+00	50	1.18	58.9			79+00 to 79+50	50	1.45	72.5
20+00 to 20+50	50	1.55	77.3			79+50 to 80+00	50	1.42	71.0
20+50 to 21+00	50	2.08	104.7			80+00 to 80+50	50	1.52	76.1
21+00 to 21+50	50	2.66	133.1			80+50 to 81+00	50	1.10	54.8
21+50 to 22+00	50	2.91	145.7			81+00 to 81+50	50	0.96	48.2
22+00 to 22+50	50	3.14	157.1			81+50 to 82+00	50	0.87	43.5
22+50 to 23+00	50	3.47	173.7			82+00 to 82+50	50	1.65	82.7
23+00 to 23+50	50	3.44	171.8			82+50 to 83+00	50	1.49	74.7
23+50 to 24+00	50	3.23	161.3			83+00 to 83+50	50	0.95	47.4
24+00 to 24+50	50	3.12	155.9			83+50 to 84+00	50	0.44	22.0
24+50 to 25+00	50	3.12	155.9			84+00 to 84+50	50	0.00	0.0
25+00 to 25+50	50	3.15	157.6			84+50 to 85+00	50	0.18	9.0
25+50 to 26+00	50	3.36	168.0			85+00 to 85+50	50	0.84	42.0
26+00 to 26+50	50	3.23	161.3			85+50 to 86+00	50	1.01	50.7
26+50 to 27+00	50	3.42	171.8			86+00 to 86+50	50	0.65	32.5
27+00 to 27+50	50	3.40	171.4			86+50 to 87+00	50	0.51	25.7
27+50 to 28+00	50	2.05	102.3			87+00 to 87+50	50	0.50	25.0
28+00 to 28+50	50	2.55	126.6			87+50 to 88+00	50	0.61	30.4
28+50 to 29+00	50	4.57	228.7			88+00 to 88+50	50	0.67	33.7
29+00 to 29+50	50	3.85	192.4			88+50 to 89+00	50	0.96	48.8
29+50 to 30+00	50	3.14	156.9			89+00 to 89+50	50	0.84	41.8
30+00 to 30+50	50	3.43	171.5			89+50 to 90+00	50	0.45	22.5
30+50 to 31+00	50	3.42	170.9			90+00 to 90+50	50	0.42	21.2
31+00 to 31+50	50	3.25	162.6			90+50 to 91+00	50	0.54	27.0
31+50 to 32+00	50	3.05	151.5			91+00 to 91+50	50	0.78	38.8
32+00 to 32+50	50	2.70	135.2			91+50 to 92+00	50	0.80	39.9
32+50 to 33+00	50	2.48	124.2			92+00 to 92+50	50	0.69	34.4
33+00 to 33+50	50	2.49	124.5			92+50 to 93+00	50	0.73	36.5
33+50 to 34+00	50	2.30	114.9			93+00 to 93+50	50	0.85	42.5
34+00 to 34+50	50	2.62	131.1			93+50 to 94+00	50	0.90	44.8
34+50 to 35+00	50	2.92	146.0			94+00 to 94+50	50	0.85	42.3
35+00 to 35+50	50	2.91	145.5			94+50 to 95+00	50	0.80	39.9
35+50 to 36+00	50	3.02	151.2			95+00 to 95+50	50	0.81	40.3
36+00 to 36+50	50	3.55	177.5			95+50 to 96+00	50	0.82	41.2
36+50 to 37+00	50	3.50	175.0			96+00 to 96+50	50	0.84	41.8
37+00 to 37+50	50	2.45	122.5			96+50 to 97+00	50	0.69	34.5
37+50 to 38+00	50	2.11	105.5			97+00 to 97+50	50	0.35	17.7
38+00 to 38+50	50	2.12	105.8			97+50 to 98+00	50	0.22	10.9
38+50 to 39+00	50	2.00	99.8			98+00 to 98+50	50	0.30	15.1
39+00 to 39+50	50	1.99	99.5			98+50 to 99+00	50	0.29	14.4
39+50 to 40+00	50	1.85	92.4			99+00 to 99+50	50	0.22	10.9
40+00 to 40+50	50	1.78	89.2			99+50 to 100+00	50	0.14	7.2
40+50 to 41+00	50	1.81	90.4			100+00 to 100+50	50	0.06	3.0
41+00 to 41+50	50	1.64	81.9			100+50 to 101+00	50	0.05	2.5
41+50 to 42+00	50	1.49	74.4			101+00 to 101+50	50	0.16	8.2
42+00 to 42+50	50	1.14	56.9			101+50 to 102+00	50	0.27	13.5
42+50 to 43+00	50	0.74	37.0			102+00 to 102+50	50	0.26	12.8
43+00 to 43+50	50	0.56	27.9			102+50 to 103+00	50	0.18	9.1
43+50 to 44+00	50	0.65	31.6			103+00 to 103+50	50	0.07	3.4
44+00 to 44+50	50	0.92	45.8			103+50 to 104+00	50	0.00	0.0
44+50 to 45+00	50	1.28	63.8			104+00 to 104+50	50	0.00	0.0
45+00 to 45+50	50	1.42	71.2			104+50 to 105+00	50	0.00	0.0
45+50 to 46+00	50	1.65	82.4			105+00 to 105+50	50	0.00	0.0
46+00 to 46+50	50	1.45	72.3			105+50 to 106+00	50	0.00	0.0
46+50 to 47+00	50	1.31	65.3			106+00 to 106+50	50	1.08	54.2
47+00 to 47+50	50	0.84	42.1			106+50 to 107+00	50	1.29	64.6
47+50 to 48+00	50	0.61	30.4			107+00 to 107+50	50	1.35	67.3
48+00 to 48+50	50	0.65	31.4			107+50 to 108+00	50	1.40	69.9
48+50 to 49+00	50	0.53	26.7			108+00 to 108+50	50	1.39	69.7
49+00 to 49+50	50	0.64	32.2			108+50 to 109+00	50	1.45	71.7
49+50 to 50+00	50	0.54	26.8			109+00 to 109+50	50	1.57	78.4
50+00 to 50+50	50	0.19	9.7			109+50 to 110+00	50	1.65	82.5
50+50 to 51+00	50	0.10	5.0			110+00 to 110+50	50	1.66	82.8
51+00 to 51+50	50	0.26	12.9			110+50 to 111+00	50	1.78	88.8
51+50 to 52+00	50	0.39	19.5			111+00 to 111+50	50	1.57	78.3
52+00 to 52+50	50	0.17	8.5						
52+50 to 53+00	50	0.09	4.5						
53+00 to 53+50	50	0.10	4.8						
53+50 to 54+00	50	0.14	7.2						
54+00 to 54+50	50	0.37	18.5						
54+50 to 55+00	50	1.58	79.2						
Total (CY):					15817.5				

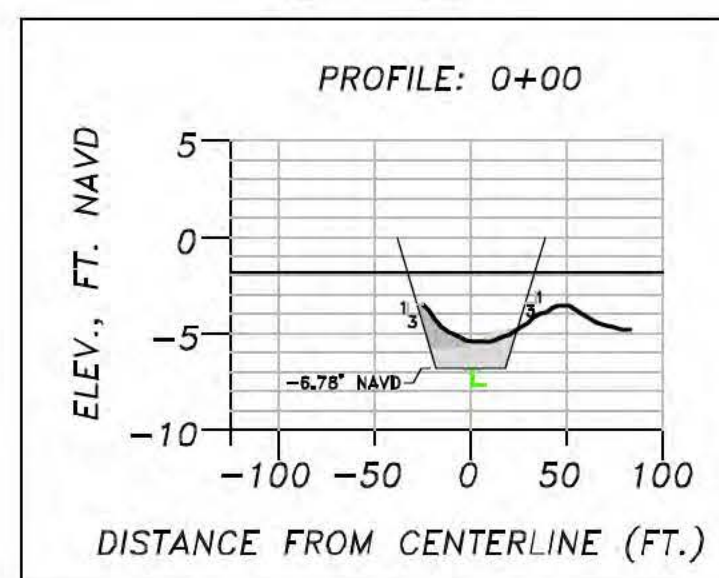
NOTES:

1. CURRENT CROSS SECTIONS BASED ON SURVEY COMPLETED BY SEA DIVERSIFIED, INC. DATED APRIL 2019.
2. POST CONSTRUCTION SURVEY DATA PROVIDED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.
3. DREDGE TEMPLATES ARE BASED ON POST CONSTRUCTION SURVEY FILES PREPARED BY MORGAN & EKLAND, INC. DATED JANUARY 2007.
4. ALL ELEVATIONS ARE IN FEET AND REFERENCE NAVD88.
5. DISTANCES ARE IN FEET.
6. MEAN LOW WATER ELEVATION OBTAINED FROM NOAA.ORG STATION ID NUMBER 8725114.

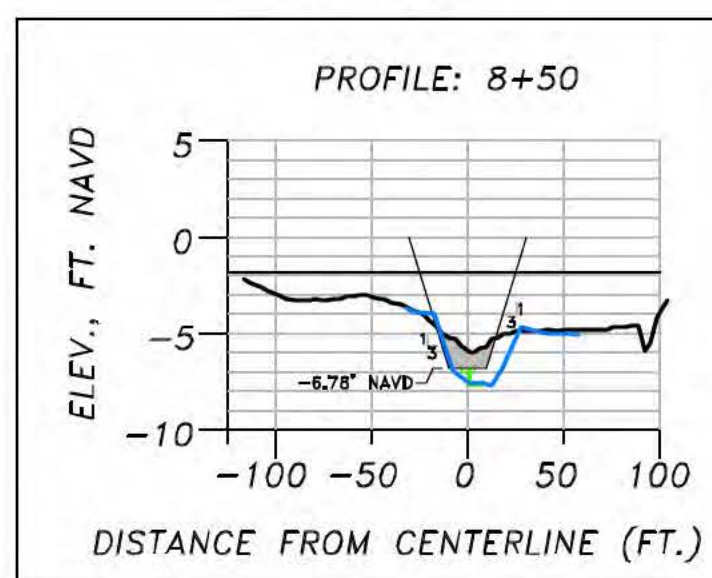
LEGEND

- APR

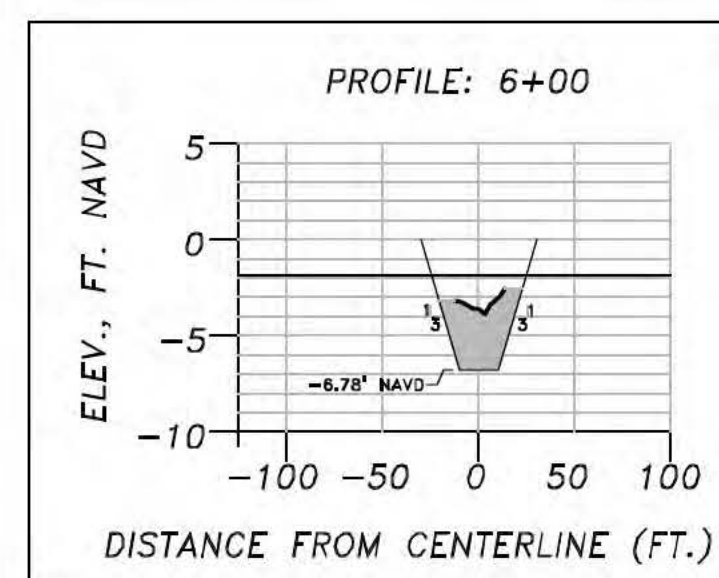
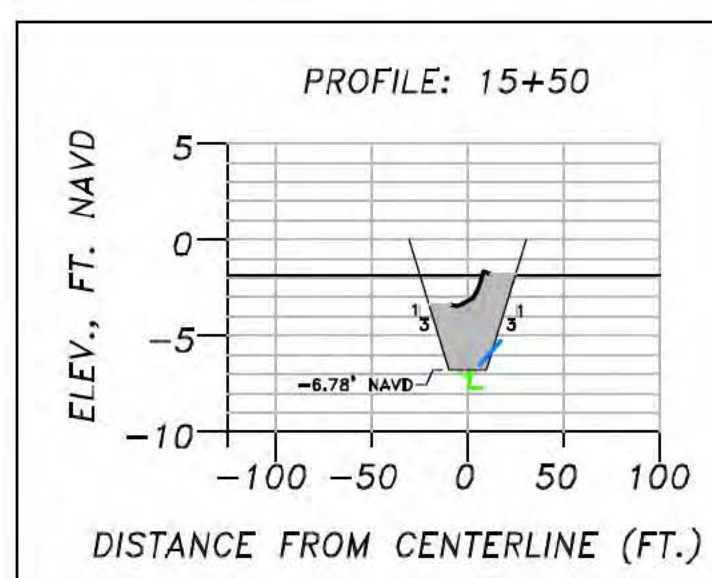
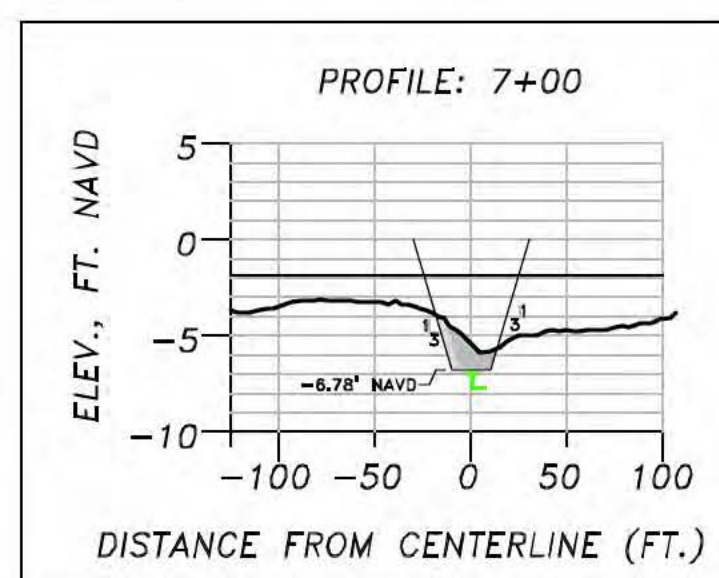
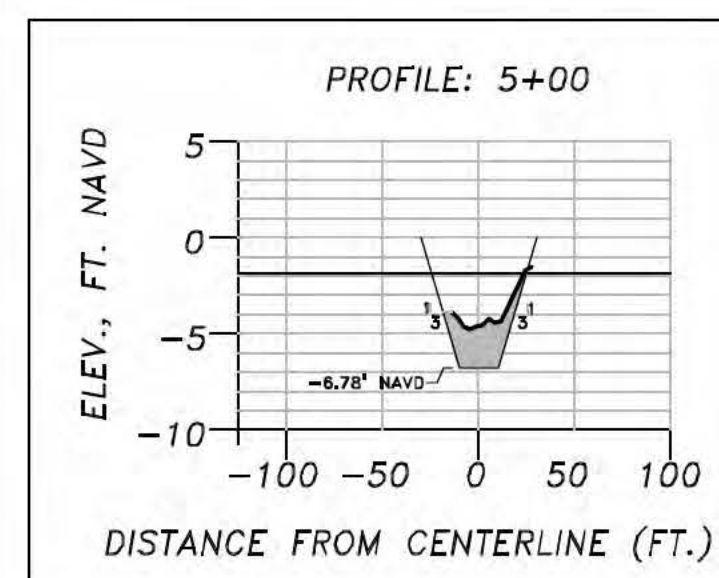
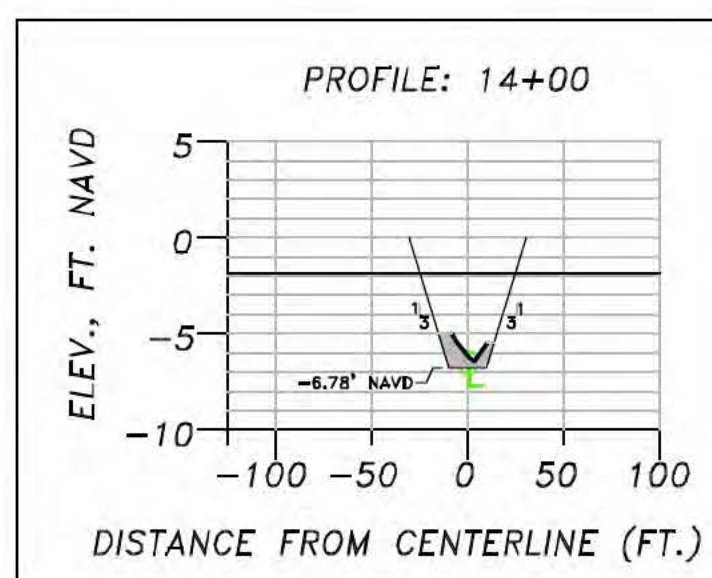
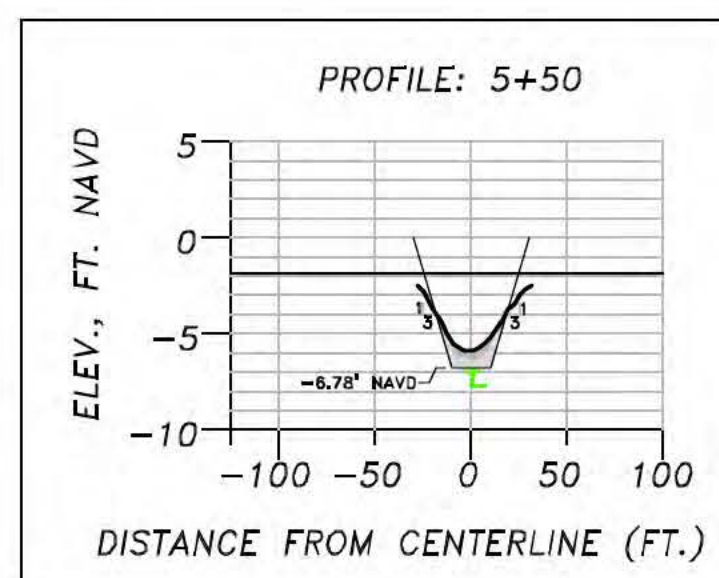
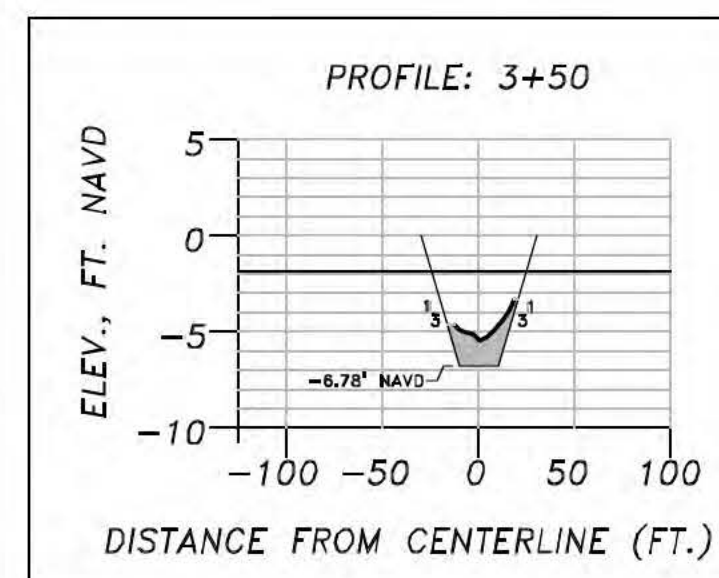
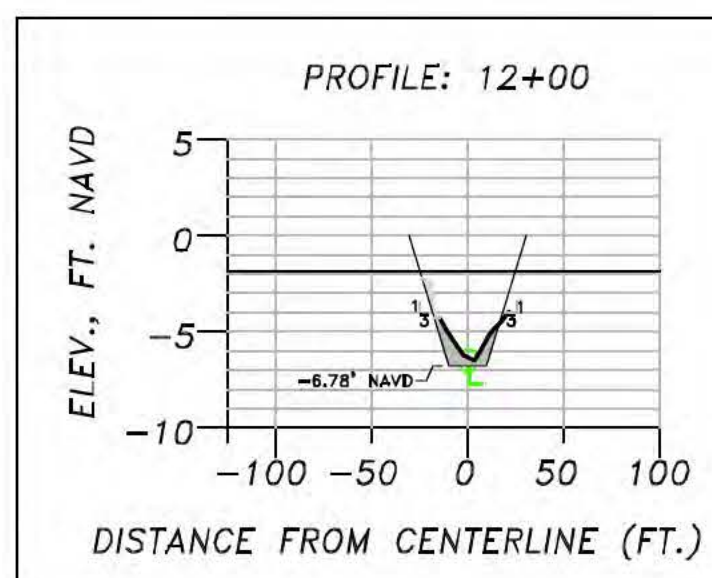
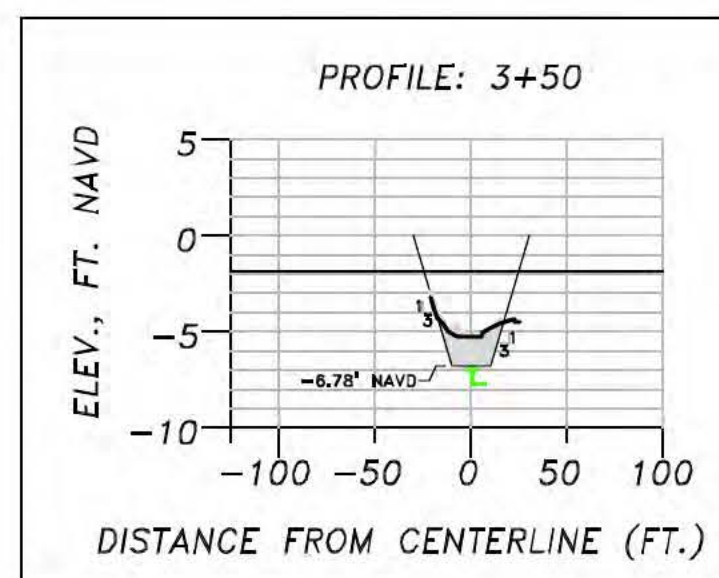
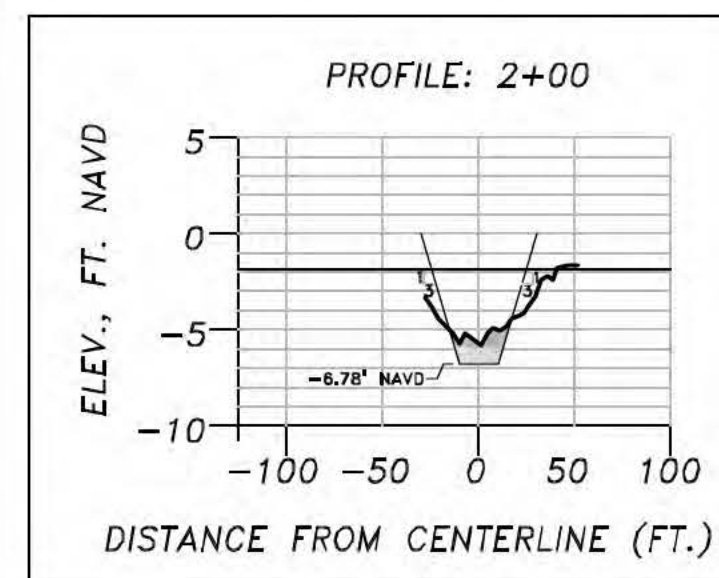
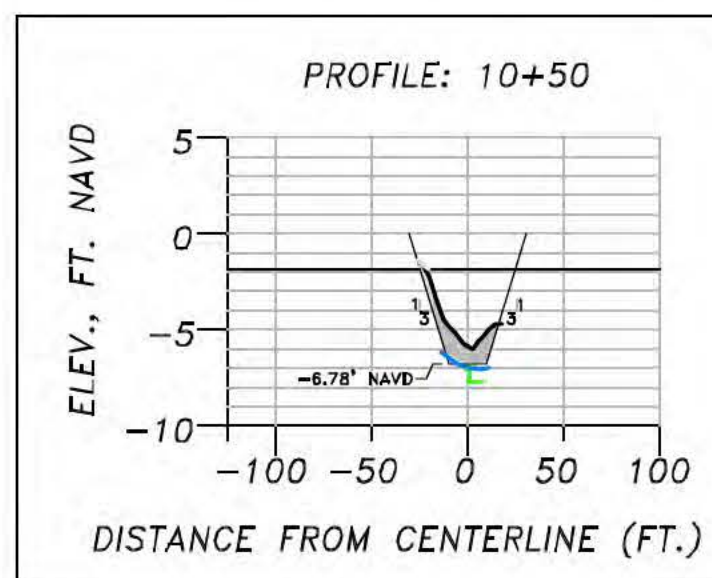
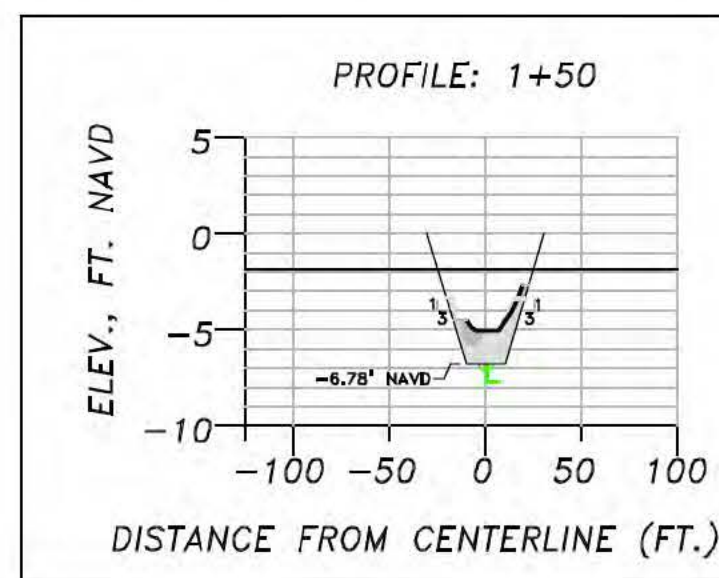
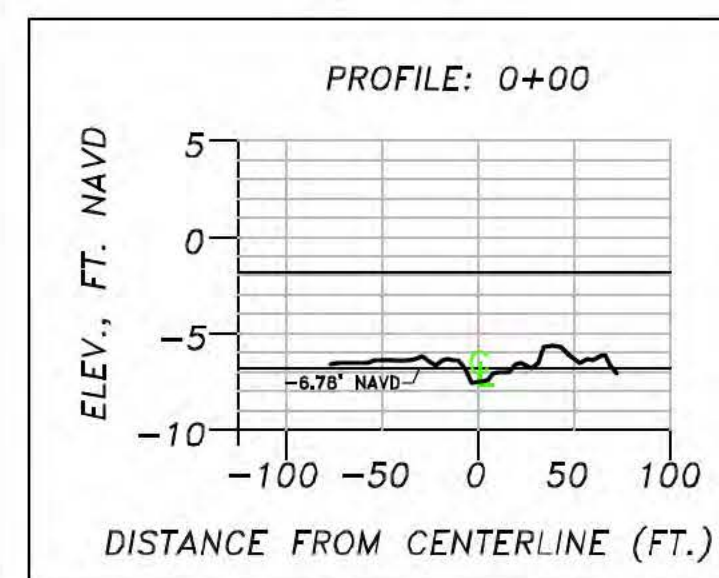
U-U



U-U



V-V



Volume Computation Section B-B					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	0.57	14.4		
0+50 to 1+00	50	1.60	80.0		
1+00 to 1+50	50	2.42	120.9		
1+50 to 2+00	50	2.09	104.7		
2+00 to 2+50	50	1.94	97.1		
2+50 to 3+00	50	3.32	166.2		
3+00 to 3+50	50	3.60	180.2		
3+50 to 4+00	50	2.67	133.5		
4+00 to 4+50	50	2.29	114.4		
4+50 to 5+00	50	0.95	47.5		
5+00 to 5+50	50	0.11	5.3		
5+50 to 6+00	50	1.60	80.2		
6+00 to 6+50	50	1.84	91.8		
6+50 to 7+00	50	0.76	38.1		
7+00 to 7+50	50	0.72	35.8		
7+50 to 8+00	50	0.74	37.2		
8+00 to 8+50	50	1.00	50.0		
8+50 to 9+00	50	0.94	46.9		
9+00 to 9+50	50	0.77	38.4		
9+50 to 10+00	50	0.80	40.1		
10+00 to 10+50	50	0.73	36.3		
10+50 to 11+00	50	0.57	28.6		
11+00 to 11+50	50	0.83	41.7		
11+50 to 12+00	50	0.78	39.0		
12+00 to 12+50	50	0.55	27.3		
12+50 to 13+00	50	0.96	48.0		
13+00 to 13+50	50	1.28	64.0		
13+50 to 14+00	50	0.83	41.6		
14+00 to 14+50	50	0.42	20.9		
14+50 to 15+00	50	0.26	13.2		
15+00 to 15+39.45	39	0.15	5.7		
Total:					1889.0

Volume Computation Section C-C					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	1.08	27.1		
0+50 to 1+00	50	1.08	54.0		
1+00 to 1+50	50	0.77	38.4		
1+50 to 2+00	50	1.10	54.9		
2+00 to 2+50	50	1.27	63.6		
2+50 to 3+00	50	1.05	50.7		
3+00 to 3+50	50	1.02	50.4		
3+50 to 4+00	50	1.24	62.0		
4+00 to 4+50	50	1.75	87.3		
4+50 to 5+00	50	1.70	85.2		
5+00 to 5+50	50	2.25	112.4		
Total:					620.7

Volume Computation Section D-D					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	0.73	18.3		
0+50 to 1+00	50	1.54	76.9		
1+00 to 1+50	50	1.54	77.2		
1+50 to 2+00	50	1.49	74.3		
2+00 to 2+50	50	1.65	82.6		
2+50 to 3+00	50	1.58	78.8		
3+00 to 3+50	50	1.37	68.4		
3+50 to 4+00	50	1.00	49.8		
4+00 to 4+50	50	1.09	54.6		
4+50 to 5+00	50	1.56	78.0		
5+00 to 5+50	50	1.99	99.4		
Total:					758.5

Volume Computation Section E-E					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	0.41	10.2		
0+50 to 1+00	50	0.17	8.4		
1+00 to 1+50	50	0.09	4.7		
1+50 to 2+00	50	0.15	7.3		
2+00 to 2+50	50	0.09	4.4		
2+50 to 3+00	50	0.01	0.6		
3+00 to 3+50	50	0.03	1.7		
3+50 to 4+00	50	0.09	4.5		
4+00 to 4+50	50	0.12	6.1		
4+50 to 5+00	50	0.79	39.5		
Total:					87.3

Volume Computation Section G-G					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	1.70	42.4		
0+50 to 1+00	50	1.22	61.0		
1+00 to 1+50	50	1.52	76.6		
1+50 to 2+00	50	1.75	87.6		
2+00 to 2+50	50	1.87	93.3		
2+50 to 3+00	50	2.17	108.7		
3+00 to 3+38	38	1.27	48.3		
Total:					523.1

Volume Computation Section H-H					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	1.86	46.5		
0+50 to 1+00	50	1.08	54.2		
1+00 to 1+50	50	0.60	30.1		
1+50 to 2+00	50	0.59	29.3		
2+00 to 2+50	50	1.26	63.1		
2+50 to 3+00	50	3.09	154.5		
3+00 to 3+43	43	2.07	89.1		
Total:					466.7

Volume Computation Section J-J					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	2.10	52.6		
0+50 to 1+00	50	2.41	120.7		
1+00 to 1+50	50	2.30	114.8		
1+50 to 2+00	50	1.78	88.8		
2+00 to 2+50	50	1.60	80.0		
2+50 to 3+00	50	2.68	134.1		
3+00 to 3+49	49	1.90	92.9		
Total:					683.9

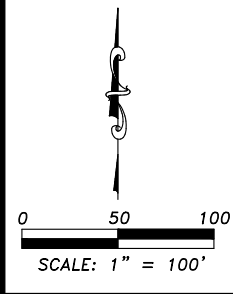
Volume Computation Section K-K					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	0.91	22.8		
0+50 to 1+00	50	1.65	82.4		
1+00 to 1+50	50	1.66	83.2		
1+50 to 2+00	50	1.62	81.2		
2+00 to 2+50	50	1.68	83.9		
2+50 to 3+00	50	1.64	81.8		
3+00 to 3+55	55	2.93	161.4		
Total:					596.8

Volume Computation Section L-L					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	25	0.10	2.5		
0+50 to 1+00	50	0.15	7.4		
1+00 to 1+50	50	0.26	13.0		
1+50 to 2+00	50	0.39	19.4		
2+00 to 2+50	50	0.38	18.8		
2+50 to 3+00	50	0.22	10.9		
3+00 to 3+50	50	0.29	14.4		
3+50 to 4+00	50	0.53	26.5		
4+00 to 4+50	50	0.33	16.6		
4+50 to 5+00	50	0.14	7.1		
5+00 to 5+50	50	0.26	13.2		
5+50 to 6+00	50	0.35	17.6		
6+00 to 6+50	50	0.22	10.8		
6+50 to 7+00	50	0.26	12.9		
7+00 to 7+50	50	0.62	30.8		
7+50 to 8+00	50	0.55	27.5		
8+00 to 8+50	50	0.23	11.7		
8+50 to 9+00	50	0.43	21.4		
9+00 to 9+50	50	0.67	33.5		
9+50 to 10+00	50	0.92	45.8		
10+00 to 10+50	50	1.25	62.4		
10+50 to 11+00	50	1.61	80.6		
11+00 to 11+50	50	3.38	169.0		
11+50 to 12+00	50	2.47	123.3		
Total:					800.1

Volume Computation Section M-M					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	1.5	0.18	0.3		
0+50 to 1+00	50	0.39	19.7		
1+00 to 1+50	50	0.46	23.1		
1+50 to 2+00	50	0.17	8.7		
2+00 to 2+50	50	0.21	10.5		
2+50 to 3+00	50	0.18	9.2		
3+00 to 3+50	50	0.21	10.3		
3+50 to 4+00	50	0.26	13.0		
4+00 to 4+50	50	0.33	16.7		
4+50 to 5+00	50	0.37	18.7		
5+00 to 5+50	50	0.27	13.4		
5+50 to 6+00	50	0.23	11.4		
6+00 to 6+50	50	0.30	14.8		
6+50 to 7+00	50	0.16	8.0		
7+00 to 7+19	19	0.00	0.0		
Total:					177.8

Volume Computation Section N-N					
Station Interval	Eff. Dist. (Feet)	Ave. Area (CY/FT)	Ave. Area (CY)	Ave. Volume (CY)	
Edge of A-A to 0+50	30	0.22	6.4		
0+50 to 1+00	50	0.43	21.5		
1+00 to 1+50	50	0.55	27.6		
1+50 to 2+00	50	0.66	33.0		
2+00 to 2+50	50	0.51	25.7		
2+50 to 3+00	50	0.26	13.1		
3+00 to 3+50	50	0.27	13.6		
3+50 to 4+00	50	0.56	27.9		
4+00 to 4+50	50	0.78	39.0		
4+50 to 5+00	50	1.05	52.4		
5+00 to 5+50	50	0.89	44.3		
5+50 to 6+00	50	0.20	10.2		
6+00 to 6+50	50	0.00	0.0		
6+50 to 7+00	50	0.00	0.0		
7+00 to 7+21	21	0.00	0.0		
Total:					329.7

1+00	to	1+50	50	0.46	23.1
1+50	to	2+00	50	0.17	8.7
2+00	to	2+50	50	0.21	10.5
2+50	to	3+00	50	0.18	9.2
3+00	to	3+50	50	0.21	10.3
3+50	to	4+00	50	0.25	13.0
4+00	to	4+50	50	0.33	16.7
4+50	to	5+00	50	0.37	18.7
5+00	to	5+50	50	0.27	13.4
5+50	to	6+00	50	0.23	11.4
6+00	to	6+50	50	0.30	14.8
6+50	to	7+00	50	0.16	8.0
7+00	to	7+19	19	0.00	0.0



- NOTES:
1. AERIAL DATED 2019 COURTESY OF COLLIER COUNTY.
 2. REFER TO PERMITTING PLANS FOR CHANNEL LOCATIONS.
 3. SILT FENCING IS APPROXIMATE. MAY BE FIELD ADJUSTED TO AVOID ANY NATIVE VEGETATION AT TIME OF CONSTRUCTION. APPROXIMATE 0.45 ACRES AND 640 LINEAR FEET.
 4. SITE TO BE RESTORED FOLLOWING CONSTRUCTION.

APPROX. LOCATON
OF SILT FENCING
(SEE NOTES 3 & 4)

CHANNEL L-L

BECCA AVE

PROPOSED
TRANSFER
LOCATION

CHANNEL V-V

CHANNEL M-M

CHANNEL A-A



**HUMISTON
& MOORE
ENGINEERS**
COASTAL
ENGINEERING DESIGN
AND PERMITTING

HALDEMAN CREEK DREDGING TEMPORARY DISPOSAL LOCATION		
FOR: HALDEMAN CREEK MTSU		
DATE: 3/8/21	FILE: AERIAL	SCALE: 1"=100'
JOB: 25026	DATUM: NONE	FIGURE: MISC

5679 STRAND COURT
NAPLES, FL 34110
FAX: (239) 594-2025
PHONE: (239) 594-2021
www.humistonandmoore.com

**ADVISORY COMMITTEE APPLICANT
ROUTING MEMORANDUM**

FROM: Wanda Rodriguez, Office of the County Attorney

DATE: January 5, 2022

APPLICANT:

Roy A. Wilson
336 Pier C
Naples, FL 34112

APPLYING FOR: Haldeman Creek Dredging Maintenance Advisory Committee

We currently have two seats expiring in March on the above referenced advisory committee. The pending vacancies were advertised and persons interested in serving on this committee were asked to submit an application for consideration.

TO ELECTIONS OFFICE: Attn: Lauren Ellis

Please confirm if the above applicant is a registered voter in Collier County, and in what commissioner district the applicant resides.

Registered Voter: Yes

Commission District: 4

TO STAFF LIAISON: Attn: Debrah Forester

cc: Shirley Garcia

An application is attached for your review. Please let me know, in writing, the recommendation for appointment to the advisory committee. In accordance with Resolution No. 2006-83, **your recommendation must be provided within 41 days of the above date.** Your recommendation memo should include:

- _____ The names of all applicants considered for the vacancy or vacancies.
- _____ The committee's recommendation for appointment or non-appointment.
- _____ The category or area of qualification the applicant is to be appointed in.
- _____ If the applicant is a reappointment, please include attendance records for the past two years.

TO ADVISORY BOARD COORDINATOR: Attn: Wanda Rodriguez

- _____ This applicant is **not** recommended for appointment. –OR–
- _____ This applicant **is** recommended for appointment. A recommendation memo is attached, please prepare an agenda item for the next available BCC agenda.

If you have any questions, please call me at 252-8123. Thank you for your attention to this matter.

**ADVISORY COMMITTEE APPLICANT
ROUTING MEMORANDUM**

FROM: Wanda Rodriguez, Office of the County Attorney

DATE: January 12, 2022

APPLICANT:

Jacob Dutry van Haeften
2431 Breakwater Way 10-102
Naples, FL 34112

APPLYING FOR: Haldeman Creek Dredging Maintenance Advisory Committee

We have two seats expiring in March on the above referenced advisory committee. The pending vacancies were advertised and persons interested in serving on this committee were asked to submit an application for consideration.

TO ELECTIONS OFFICE: Attn: Lauren Ellis

Please confirm if the above applicant is a registered voter in Collier County, and in what commissioner district the applicant resides.

Registered Voter: Yes

Commission District: 4

TO STAFF LIAISON: Attn: Debrah Forester

cc: Shirley Garcia

An application is attached for your review. Please let me know, in writing, the recommendation for appointment to the advisory committee. In accordance with Resolution No. 2006-83, **your recommendation must be provided within 41 days of the above date.** Your recommendation memo should include:

- _____ The names of all applicants considered for the vacancy or vacancies.
- _____ The committee's recommendation for appointment or non-appointment.
- _____ The category or area of qualification the applicant is to be appointed in.
- _____ If the applicant is a reappointment, please include attendance records for the past two years.

TO ADVISORY BOARD COORDINATOR: Attn: Wanda Rodriguez

- _____ This applicant is **not** recommended for appointment. –OR–
- _____ This applicant **is** recommended for appointment. A recommendation memo is attached, please prepare an agenda item for the next available BCC agenda.

If you have any questions, please call me at 252-8123. Thank you for your attention to this matter.

Haldeman Creek Dredging MSTU Goals . FINAL (April 28, 2010)	
Vision Statement:	The vision of the Haldeman Creek MSTU Advisory Committee is to have Haldeman Creek and adjoining waterways recognized as a wellmaintained, navigable, clean waterway, and to be a good partner with adjoining waterways.
Mission Statement:	The mission of the Haldeman Creek MSTU Advisory Corhmittee is to provide oversight, direction, structure, and work programs to maintain and improve the Haldeman Creek waterway system.
structure work programs oversight direction	
Goal 1	Make and Keep Haldeman Creek waterways navigable. Objective 1.1 Replace channel markers that have been damaged or are in disrepair. Objective 1.2 Remove rock, that impedes navigation, when consistent with financial obligations/ restrictions/ limitations of the MSTU.
Goal 2	Provide millag oversight. Objective 2.1 Establish an annual and long-term budget with millage recommendations to the BCC.
Goal 3	As an advisory committee, ensure equal representation of MSTU constituents from all regions of the MSTU area.
Goal 4	Find a way to get agencies,that already exist, energized to work on Haldeman Creek maintenance related items and not supplant another agency's work. Objective 4.1 An organizational chart will be established clarifying which agencies are useful to assisting the MSTU realizing its vision for Haldeman Creek and relationships with these agencies will be established for the purpose of having MSTU issues prioritized.
Goal 5	Make and keep Haldeman Creek waterways clean and safe. Objective 5.1 Establish an educational outreach program to educate property owners and agencies how they can contribute to keeping Haldeman Creek clean. Objective 5.2 Establish relationships with appropriate law enforcement and code enforcement agencies to enforce related codes and laws related to Haldeman Creek.
Goal 6	The Haldeman Creek Dredge MSTU will occasional review and revise its goals and objectives to reflect the priorities of its constituents and recommend updates to the enabling ordinance as necessary.
Goal 7	The MSTU Advisory Committee will develop partnerships with other organizations with compatible goals and organizations to strengthen its capacity to realize its vision.

CRA and County PROJECT UPDATES – February 2022

1. DEL'S PROPERTY ACQUISITION - Closed on November 20, 2020. Survey of property identified some issues. ROW easement was approved by the BCC on 11/9. Final survey work is completed. Request for Proposals to demolish the two structures is scheduled to be advertised early February. Demolition to begin first quarter of 2022 with completion by early summer. Following demolition, highest and best use analysis to be conducted.
2. PUBLIC ART PLAN –Mural ordinance was discussed at CCPC meeting on December 16, 2021. The CCPC requested additional information and examples of other ordinances. It will be continued to February 17. The date for BCC meeting will be scheduled following CCPC discussion, tentatively April 12. Arts and Cultural Manager scheduled to begin mid-February. Advertising of positions to fill Public Art Committee is pending Arts and Cultural Manager's engagement.
3. 17 AC - BOARDWALK – Scheduled for February 8 BCC meeting companion item to overall discussion on the future direction of the 17 Acres.
4. BRANDING - Paradise Advertising and Marketing, Inc. – Site visit held January 31 and February 1. Community Survey to follow
5. BAYSHORE ACCESS MANAGEMENT PLAN – Kick off meeting with consultant and staff held January 10, 2022. Tami Scott will be the project manager. Data collection will be held during February/March
6. COASTERS/SHUTTLE SERVICE – On-demand Service. Requested Procurement to review option to piggyback on St. Pete Beach contract.
7. LAND USE REGULATIONS/BONUS DENSITY AMENDMENT – CCPC recommended approval First BCC hearing first hearing February 8th. Consultant contract extended to March 31, 2021.
8. Francis Avenue lot – purchased for additional stormwater. Notice to proceed start date January 17, 2022. Should be completed in 30 days but the contract does allow for up to 90 days. There is an issue with shortage of truck drivers which are needed to haul the debris.
9. Conservation Collier Cycle 10 Properties – The Bayshore Parcels (Forrest G Amaranth Trust – 71 acres) was reviewed on December 9th by Conservation Collier Land Acquisition Advisory Committee (CCLAAC) and recommended for acquisition. BCC at the January 25th voted to move forward with acquisition process for this parcel as well as other parcels on the "A" list.
10. Linwood Sidewalk – Safe Routes to School Project – PE – 2022/2023 and Construction 2024/2025

Item 8a

FPN : 4465501 Project/Location : SHADOWLAWN ELEMENTARY - SRTS

Desc: SIDEWALK

Project Length : 0.510 Begin Mile Post : 0.000 End Mile Post: 0.510

Comments :

Phase	Fund	2021/ 2022	2022/ 2023	2023/ 2024	2024/ 2025	2025/ 2026
CST	SR2T	\$0	\$0	\$0	\$771,516	\$0
PE	SR2T	\$0	\$90,943	\$0	\$0	\$0
Project Total:		\$0	\$90,943	\$0	\$771,516	\$0

11. Peters Avenue – five-foot sidewalk from Collee Court to US41. \$389,000 CDBG grant awarded and managed by Transportation Planning department. The sidewalk will be placed on the residential side of the street. Construction contract approved in November. Pre-construction meeting is December 3. Anticipate Notice to Proceed in January 2022. Completion anticipated April 2022. Laurie Beard (GMD) is project manager
12. Pine Street – FDOT Funded Becca to US41 – PE 2022/2023. Construction 2024/2025. Will coordinate with stormwater study.
13. Commercial Drive Stormwater Improvements – Off-site improvements will be completed by mini-triangle developer. Improvements have been designed and permitted. The project will replace a 15-inch diameter drainage pipe across Commercial Drive with a 30-inch drainage pipe to improve stormwater conveyance to the Gateway Triangle stormwater management pond. The project will install a 36-inch connection pipe in the alley just west of commercial Drive to improve stormwater management connections which will help reduce flooding in this alley.
14. April 13, 2021 BCC approved construction contract for the East Naples Community Park Welcome Center," to Curran Young Construction, LLC, in the amount of \$2,965,622.28. Construction underway. Opening scheduled for April.



Bayshore Gateway Triangle CRA • Bayshore Beautification MSTU
Haldeman Creek MSTU

PROJECT UPDATES Tami Scott February 02, 2022

CRA Parking Lot:

Staff is working on additional items, bench signage for Jean Harvey, planting, entry gates, site signage.

Bayshore Bridge:

On December 15 road maintenance cleaned up the area under the bridge, removed all the clothing, mattresses, food and temporarily fixed the gate. Staff is working on an estimate to repair and replace the fencing under the bridge. To repair and replace in kind which includes fastening sections of chain-link to new post set in concrete is approximately \$10,000. To repair and replace the sections of chain-link with new horizontal bars welded to new post set in concrete is approximately \$30,000. Road Maintenance has agreed to cost share on the fencing, CRA /MSTU staff will put together a scope of work to go out to bid.

CBIG Grant for Southern Region Development / Sunbelt on Davis:

Construction is taking longer than expected, the board approved at the January meeting an extension. Staff will put together the necessary paperwork for review and approval.

SIG Grant for Ozlyn Garden Villas Condominium:

Site approvals have taken longer than expected, Staff was directed to verify the projects code compliance prior to granting an extension. Staff will contact code enforcement for an update.

MSTU Landscape Contract:

New landscape contractor A & M Property Maintenance, LLC. Has been focusing on irrigation repairs to date we have spent and additional \$4,500 to get the system up and running properly. Staff has scheduled monthly walk thru meetings with A & M Property Maintenance, LLC for the first Wednesday of each month.

Stormwater:

Two projects underway

- 1- Becca, Weeks, and Pine – Notice to proceed has been issued to Bolt Engineering of Cape Coral, Florida 33904 (Progress report attached)
2. Gateway Triangle- Q. Grady Minor was selected for as the engineer of record, draft a scope of work presented to CRA Advisory Board 02.01.22

South Bayshore:

Isles of Collier is working on an entrance off Bayshore. Substantial amount of truck traffic, Staff is looking into the SDP to verify what was approved in terms of construction activity and hours of operation.

Sabal Shores street lighting:

The boards approved the Proposed plan and cost for the new street lighting in Sabal shores neighborhood. CRA/MSTU Staff is working with Eric Culling, FPL Sr. Representative to receive a contract that will be reviewed and approved by the county attorney's office. From date of the signed agreement lights should be installed 16 weeks after.

Bus stop on Thomasson drive:

Staff is working with the transportation department to modify two bus stop number 134 on Thomasson / Lombardy drive. The Board has agreed to move forward with the partnership.

Linwood Way:

PO has been opened; City of Naples has installed the water meeting, Notice to Proceed has been issued to the DMI Contractor on December 31, 2021.

Hamilton Avenue:

- Construction has started NTP was issued to Haskins Inc. will be issued on January 10, 2022.
- CEI contract has been approved with Johnson Engineering, Naples Florida.
- Bi-weekly meetings have started, Wednesday at 10:00 am.
- City of Naples has scheduled a waterline upgrade project on Hamilton Avenue. Planned start date is January 4, 2022.
- Project Manager assigned to the project is Olivier Sureau Collier County Facilities.
Olivier.sureau@colliercountyfl.gov
- Danford Street is NOT part of this project and is still in design.

FDOT Project:

US41 F DOT Safety Improvement Project – Construction start date is December 6, 2021. There are 300 calendar days of contract time. 7 existing light decorative poles are called out be removed as well as the “porkchop” at the corner of Bayshore and US41.

Fund 164 Haldeman Creek MSTU

Item 8c

Fund / Comm Item	BCC Adopt Budget	Tot Adopt Budget	Tot Amend Budget	Commitment	Actual	Available
**** Grand Total-Fund/ CI						
*** 164 HALDEMAN CREEK MSTU				9,237.50	103,280.82-	94,043.32
** REVENUE Sub Total	856,400.00-	856,400.00-	554,387.50		119,127.45-	745,685.05-
* REVENUE - OPERATING Su	154,800.00-	154,800.00-	154,800.00-		119,127.45-	35,672.55-
311100 CUR AD VALORE	151,800.00-	151,800.00-	151,800.00-		117,861.56-	33,938.44-
361170 OVERNIGHT INT					86.19-	86.19
361180 INVESTMENT IN	3,000.00-	3,000.00-	3,000.00-		1,179.70-	1,820.30-
* CONTRIBUTION AND TRANS	701,600.00-	701,600.00-	709,187.50			710,012.50-
486600 TRANS FROM PR						
489200 CARRY FORWARD GEN	709,600.00-	709,600.00-	709,600.00			709,600.00-
489201 CARRY FORWARD OF			8,412.50-			8,412.50-
489900 NEG 5% EST RE	8,000.00	8,000.00	8,000.00			8,000.00
** EXPENSE Sub Total	856,400.00	856,400.00	864,812.50	9,237.50	#REF!	851,028.37
* OPERATING EXPENSE	61,200.00	61,200.00	69,612.50	9,237.50	1,132.00	59,243.00
631400 ENG FEES	50,000.00	50,000.00	58,412.50	8,412.50		50,000.00
634970 INDIRECT COST	600.00	600.00	600.00	600.00		
634980 INTERDEPT PAY	2,000.00	2,000.00	2,000.00			2,000.00
634999 OTHER CONTRAC	5,000.00	5,000.00	5,000.00			5,000.00
641950 POST FREIGHT	300.00	300.00	300.00			300.00
641951 POSTAGE	1,000.00	1,000.00	1,000.00			1,000.00
645100 INSURANCE GEN	300.00	300.00	300.00	225.00	75.00	
649100 LEGAL ADVERTI	2,000.00	2,000.00	2,000.00		1,057.00	943.00
* TRANSFERS	11,300.00	11,300.00	11,300.00		#REF!	11,300.00
911870 TRANS TO 187	11,300.00	11,300.00	11,300.00		11,300.00	
* TRANSFER CONST	5,300.00	5,300.00	5,300.00		3,414.63	1,885.37
930600 PA BUDGET TRANS	1,500.00	1,500.00	1,500.00		557.40	942.60
930700 TC BUDGET TRANS	3,800.00	3,800.00	3,800.00		2,857.23	942.77
* RESERVES	778,600.00	778,600.00	778,600.00			778,600.00
993000 RESV FOR CAPI	778,600.00	778,600.00	778,600.00			778,600.00