



ADDENDUM NO. 2

Issue Date: June 21, 2019

Project Name: Jungle Trail Shoreline Stabilization Project

Bid Number: 2019050

Bid Opening Date: June 27, 2019

This addendum is being released to provide minutes to the pre-bid meeting, modify the bid documents and answer questions received to date. The information and documents contained in this addendum are hereby incorporated in the invitation to bid. **This addendum must be acknowledged where indicated on the bid form, or the bid will be declared non-responsive.**

Attachments:

Pre-Bid Meeting Minutes
Revised Cross Sections

MODIFICATION TO BID DOCUMENTS

The following changes are made to the bid documents: Revised cross sections provided by the EoR-dated 5-29-2019

Questions and Answers

1. Which set of plans are we to use for bidding this project, the plans in the Bid_Specifications pdf (sheet 213-226) or the plans pdf sheets?
The plan pdf sheets are the plans to be used for bidding, the plans in the Bid_Specification pdf are part of the permit application which are not final plans.
2. Some of the cross sections show planted fill being put on top of the rip rap (example sheet C-113 STA 4+50). On sheet C-109 the planted fill area is only showing to between the road and the rip rap for this particular section. Is this a mistake in the cross sections?
Yes, in the transition areas a veneer of fill will be placed over the rip rap and planted.
3. The existing condition line seems to be missing behind the rip rap area on the cross sections. Can we get a revised pdf that can show us this line work?
Please see revised cross sections provided by the EoR – dated 5-29-2019



Board of County Commissioners

1801 27th Street
Vero Beach, Florida 32960-3365
Telephone: (772) 567-8000
Fax: (772) 778-9391

PRE-BID MEETING MINUTES
JUNGLE TRAIL SHORELINE STABILIZATION PROJECT
Project No. IRC-1823
June 12, 2019 at 10:00 AM
INDIAN RIVER COUNTY ADMINISTRATION BUILDING
Room A1-303 Building A

The following meeting notes set forth our understanding of the discussions and decisions made at the subject meeting. If no objections, questions, additions, or comments are received within three (3) working days from issuance of the meeting notes, we will assume that our understandings are correct. The project will move forward according to the bid plans and specifications and the understandings herein.

PROJECT NAME: JUNGLE TRAIL SHORELINE STABILIZATION PROJECT
PROJECT NUMBER: IRC-1823
BID NUMBER: 2019050

INTRODUCTIONS/SIGN IN SHEET

The meeting was called to order by Kirstin Leiendecker. All parties present identified themselves for the project record. See attached sign in sheets for a list of the attendees.

This meeting has been recorded.

PROJECT DESCRIPTION:

Project consists of the placement of riprap along approximately 750 linear feet of shoreline along the east bank of the Indian River Lagoon and on the west side of Jungle Trail in Indian River County, Florida. This work will include grading, excavation, and landscaping. The project area is approximately between Channel Marker 87 and 89.

CONTRACT DETAILS

Bid Opening: Thursday, June 27, 2019 at 2:00 PM
Contract Time: 60 days to substantial completion
90 days to final completion
Engineer's Estimate: \$415,840.00 (Includes Force Account)
Liquidated Damages: \$1,241.00 per day

CONTACTS BIDDING PROCESS

All communications concerning this bid shall be directed to Indian River County Purchasing Division at purchasing@ircgov.com.

PROJECT CONSULTANTS:

Environmental Science Associates– Bryan D. Flynn, PE

UTILITIES:

A waterline from IRC is present at the east side of the road and can be located if requested. Contractor is responsible to verify all underground utilities shall call the one call system before begin of construction.

PERMITS:

The permits obtained for this project are:

St. Johns River Water Management District General Permit Number: 84224-3

Department of the Army Corps of Engineers - SAJ-2002-05839

OTHER ISSUES

- Review and comment with questions and clarifications as soon as possible, no further comments 10 days prior to bid opening (Thursday, June 27, 2019).
- The Notice to Proceed tentative issuance is TBD. We are looking for a start date within the second half of July 2019.
- Maintenance of Traffic:
 - Contractor shall submit a Maintenance of Traffic Plan to the Indian River County, Traffic Division for approval.
 - The Maintenance of Traffic Plan shall meet the FDOT Index 600, January 2018 Edition and shall be signed and sealed by a Florida P.E.
 - Road access shall be maintained at all times. One lane to stay open for pedestrians, bikes and car traffic at all times.
- Contractor will need to notify the Owner at least 48 hours before Mobilization, arrival of rip-rap, site preparation, material placement, site restoration and demobilization.
- Submittals will include a schedule, pre-construction video, shop drawings, the Storm Water Pollution Prevention Plan (SWPPP), and a Hurricane preparedness plan.
- Jersey barriers, currently in place to protect the shore line, can be used for temporary construction, and will be picked up by the Road & Bridge department, if not needed.
- All excavation and material placement must be completed from the shore.
- Environmental Protection: Contractor to comply with all requirements outlined in the permits, for protection of manatees, sea turtles and smalltooth sawfish. Turbidity Control Measures need to be maintained in compliance with federal and state water quality standards. Turbidity curtains shall be installed per manufactures recommendation and shall be removed each day.
- Removal and disposal of debris is the Contractor's responsibility.
- Contractor will be responsible for notifying the US Coast Guard for a Notice to Mariners and should establish a "No Wake Zone" with the US Coast Guard.
- Work hours – IRC work hours are from 7AM to 5PM, however work time will also be limited to ½ hour after sunrise through ½ hour before sundown. Night time operation will not be allowed, work on weekends or holidays will need approval from IRC.

DISCUSSION

Brian Flynn, ESA stated:

- Some mangroves will be removed as part of this project and part of the permit, however, it should be limited as much as possible. Lateral trimming is preferred over complete removal. The removal of mangroves will need to stay very close to the limits that are

outlined in the contract plans and in the permit documents.

- Work will be impacted by tides, contractor shall become familiar with the tide tables and how it may impact the work.
- Contractor shall be aware of coastal traffic.
- Turbidity curtains shall be installed and removed daily.

Kendra Cope, IRC stated:

- The Spartina Bakeri Grass (Sand Cordgrass) may be substituted with the Spartina Alterniflora Grass if it is available.

Q: Can the parking area to the south or the driveway at the north end of the project be used for stock piling?

A: Both areas will not be available to be used for stock piles.

Q: Should the new project mirror the Phase 1 project adjacent to the north? In the drawings, the fill is shown next to the rock where currently mangroves are located. Is it the intention to move the mangroves in order to place the rock from the road? Or will the rock be placed blind.

A: The contractor will be able to remove some mangroves or trim the mangroves. Mangroves are surveyed and we have a number of mangroves that are permitted to be removed. However, the decisions of the limits will be made in the field during by IRC staff or the project Consultant (ESA).

Q: What is the distance from the edge of the road to the waterside?

A: From the roadside it is approximately 15 feet out depending on location.

Q: If the placement of the rock interferes with the mangroves, can the mangroves be pulled out?

A: Mangroves that can be saved, shall be saved. There will be a case by case determination. ESA will help to establish the area that can be removed. The project is considered a shoreline stabilization as well as a living shoreline project. It would be desired that mangroves stay in place as much as possible.

Q: Are there any Federal Reporting, Grants Reporting or Federal Funding requirements?

A: No, the only requirement is the report to the USACE.

Q: Bid Bond is 5%, Public Construction Bond 100% (Single Bond)?

A: Yes

Meeting adjourned at 10:30AM.

PRE-BID MEETING
SIGN-IN SHEET

INDIAN RIVER COUNTY ENGINEERING
INDIAN RIVER COUNTY ADMINISTRATION BUILDING
Room A1-303 Building A

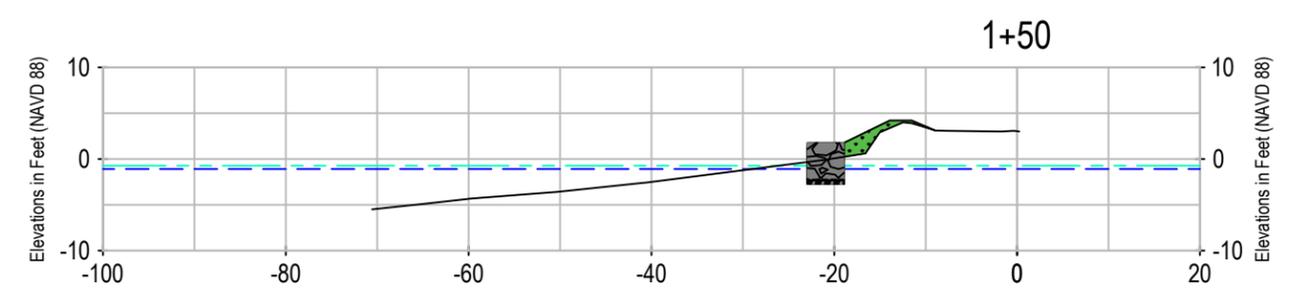
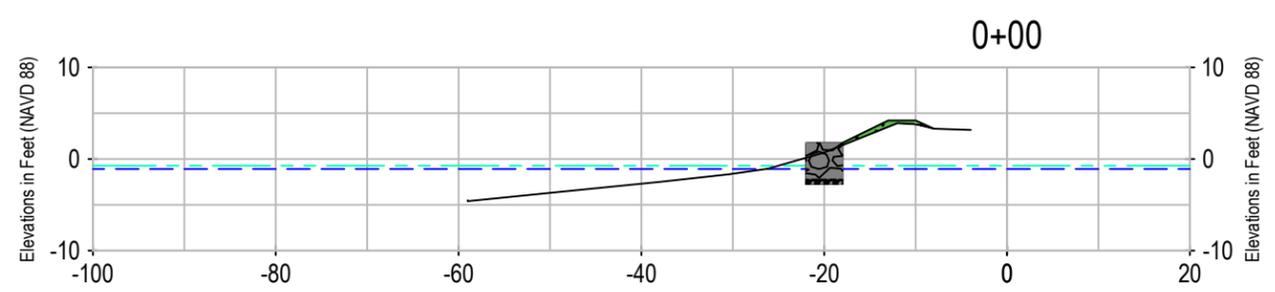
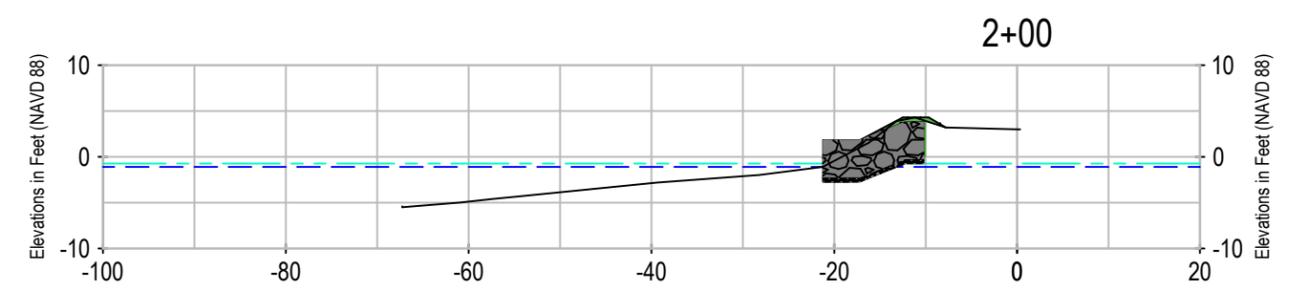
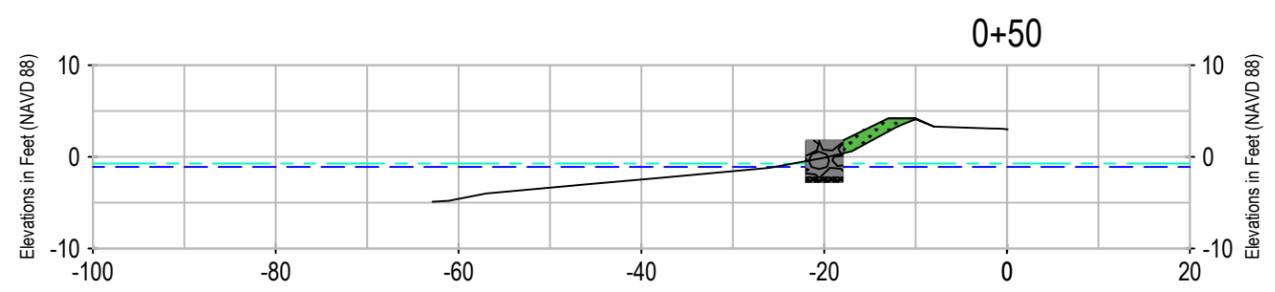
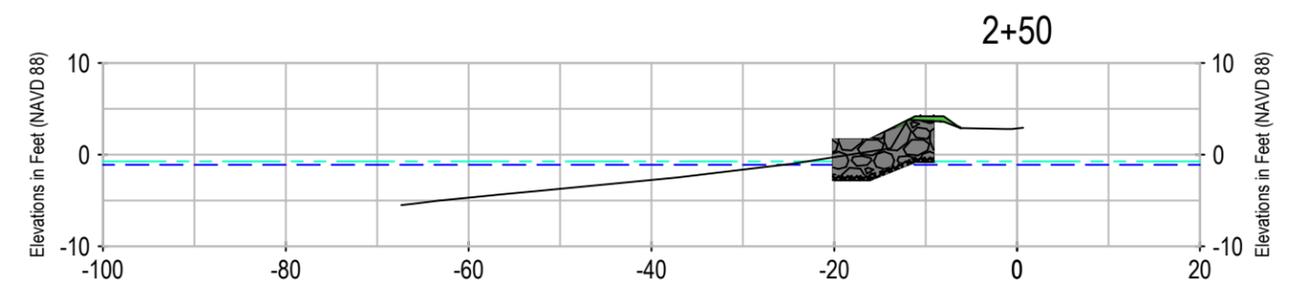
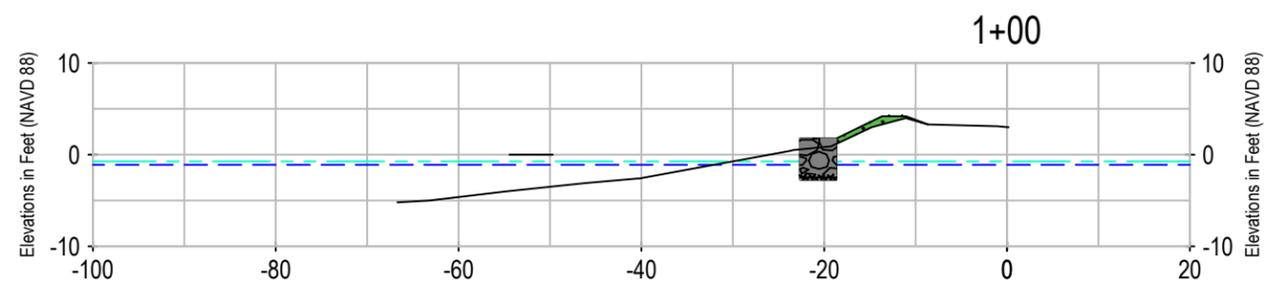
JUNGLE TRAIL SHORELINE STABILIZATION PROJECT

PROJECT No. IRC-1823
June 12, 2019 at 10:00 A.M.

NAME	COMPANY & ADDRESS	PHONE # / FAX # / CELL #	EMAIL ADDRESS
Kiishu Wendaker	IRC ENG	776-226-1327	kiishu@ircgov.com
Mike Heller	IRC Eng	772-226-1585	mheller@ircgov.com
Carolyn Clark	All Excavating Inc	863-887-8004	carolynsa@excavatinginc.com
Keith Wallace	Ferreira Construction	772-286-5123	kwallace@ferreiraconstruction.com
DACS RODRIGUEZ	SANTA CLAUZ CONST, INC	321-452-3190	kdacs@santraclauzconstruction.com
Kevin Teast	GAETNER CONSTRUCTION	772-441-8395	kevin@gaetnerconstruction.com
Christy Schwartz	Summit Const.	772-794-2099	christy@summitcm.net
Derek Jerd	Ferguson	954-848-3816	Derek.jerd@ferguson.com
Brian Flynn	ESA		
Cassie Ferguson	IRC Engineering	772-226-1771	cferguson@ircgov.com
Jill Williams	IRC Eng	(772) 226-1382	jwilliams@ircgov.com
Kendra Cope	IRC CORSTAL	(7) 226-1509	kcope@ircgov.com
Molly Kilmepeter	IRC Coastal	772-226-1165	mkindepeter@ircgov.com
MIKE FALMAN	XGD Systems LLC	772 286 3419	mfalman@xgd-systems.com

LEGEND:

- - - MEAN HIGH WATER LINE (-0.72 FT NAVD 88)
- - - MEAN LOW WATER LINE (-1.09 FT NAVD 88)
- RIP RAP
- BEDDING STONE
- PLANTED FILL



VERTICAL SCALE: 1" = 20'
 HORIZONTAL SCALE: 1" = 20'



DESIGNED:	BY:	REVISIONS	
		DATE	NO.
BDF	BDF	5/29/19	
DRAWN:	BDF	5/29/19	
CHECKED:	TJR	5/29/19	
APPROVED:	RTB	5/29/19	

INDIAN RIVER COUNTY
 1801 27TH STREET
 VERO BEACH, FL 32960

JUNGLE TRAIL SHORELINE STABILIZATION PROJECT
 WABASSO, FL
PROPOSED DESIGN - SECTION VIEW

LEGEND:

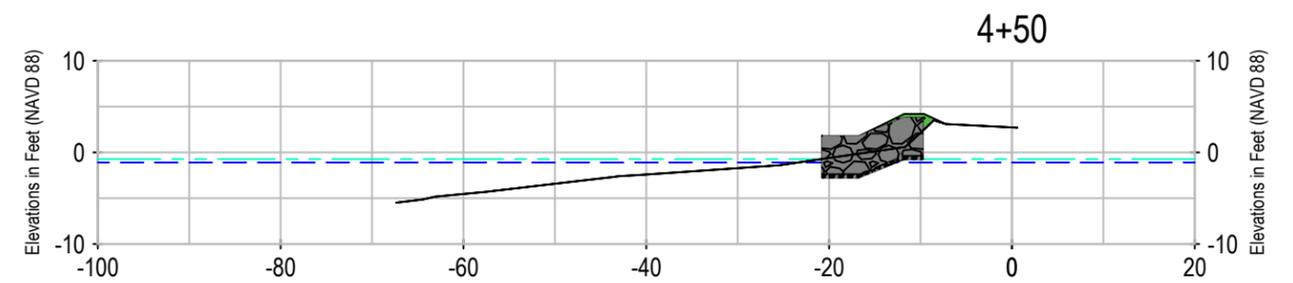
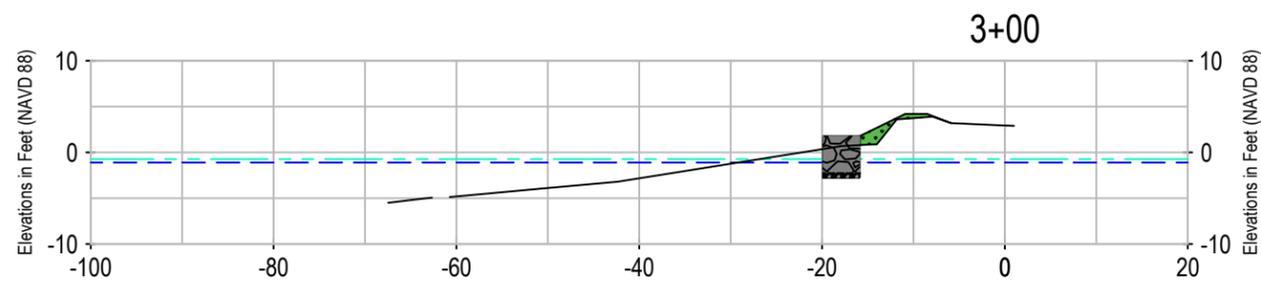
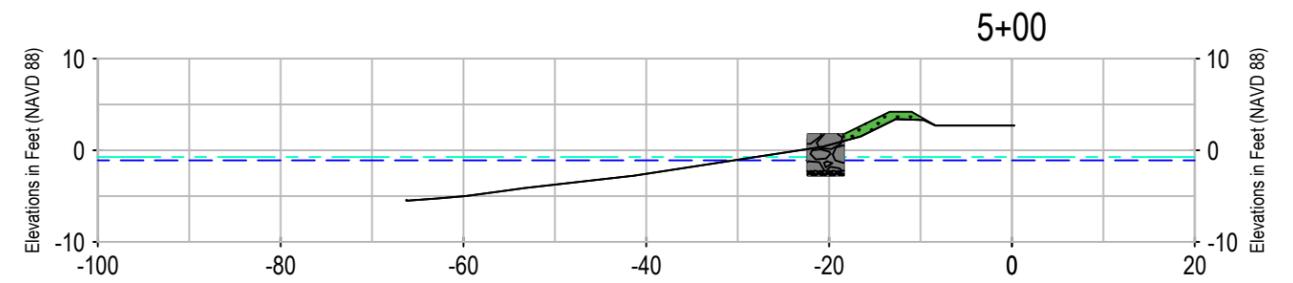
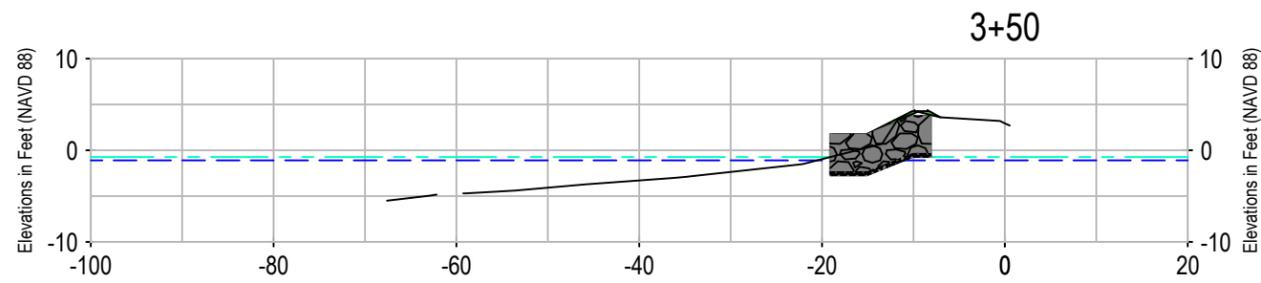
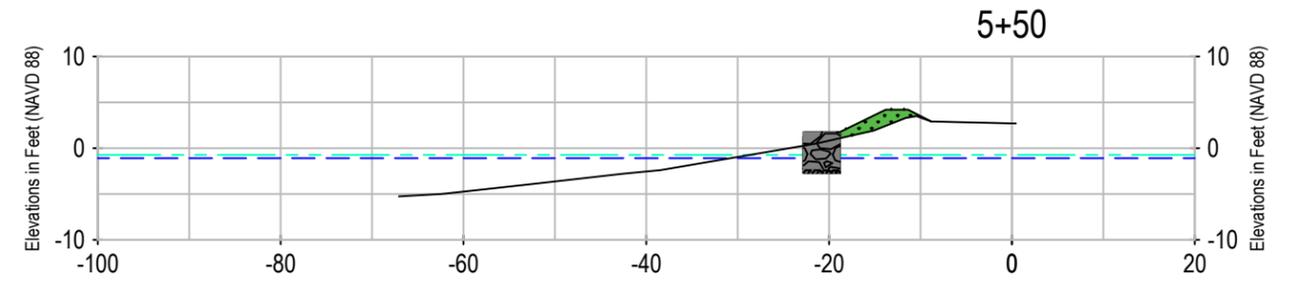
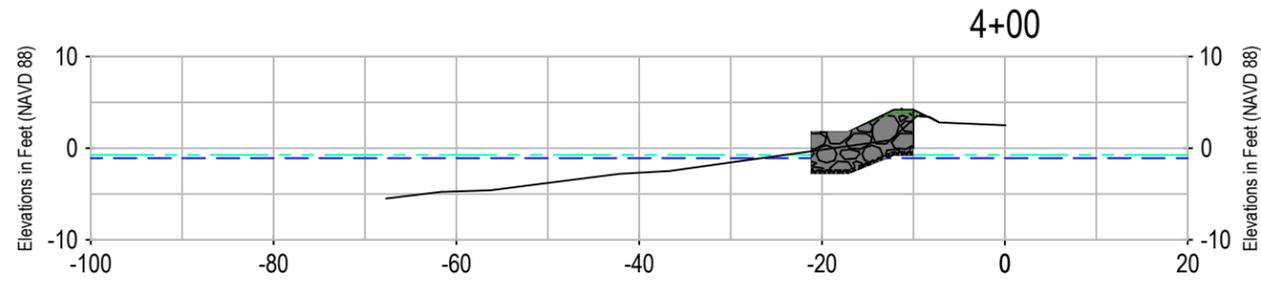
MEAN HIGH WATER LINE (-0.72 FT NAVD 88)

MEAN LOW WATER LINE (-1.09 FT NAVD 88)

RIP RAP

PLANTED FILL

BEDDING STONE



VERTICAL SCALE: 1" = 20'
HORIZONTAL SCALE: 1" = 20'



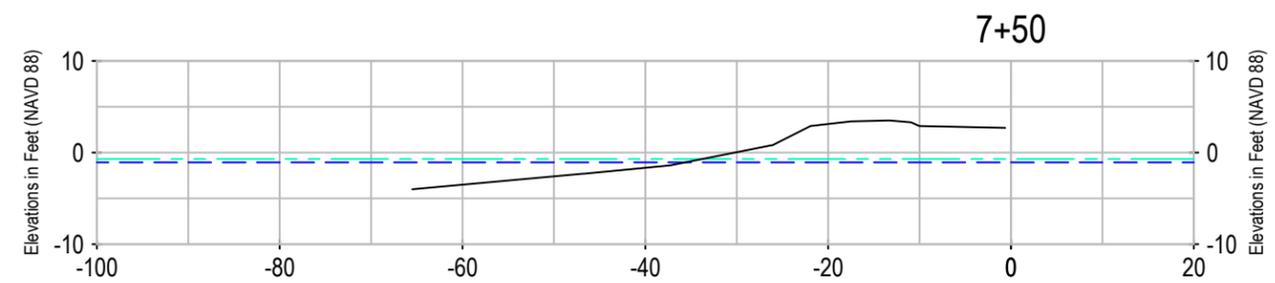
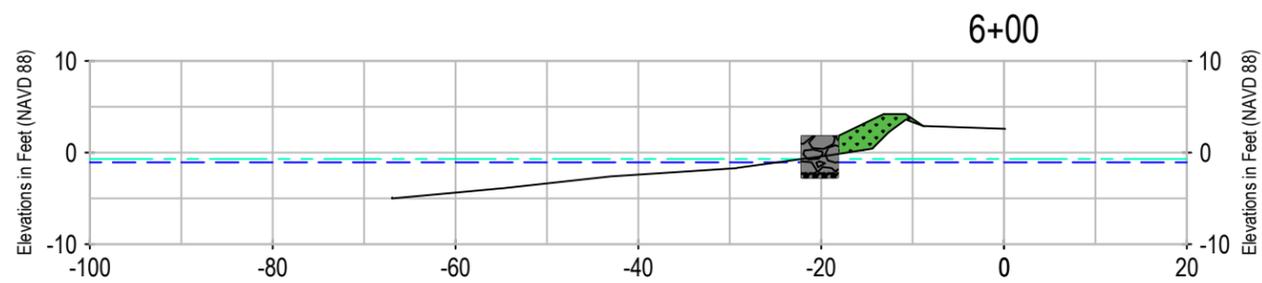
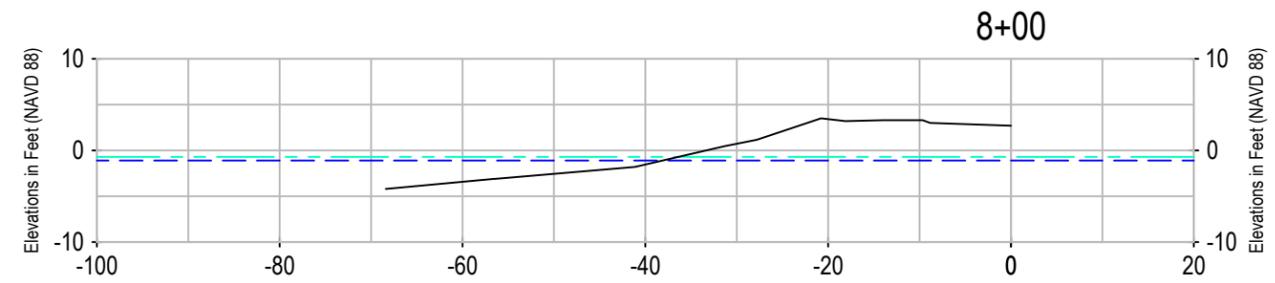
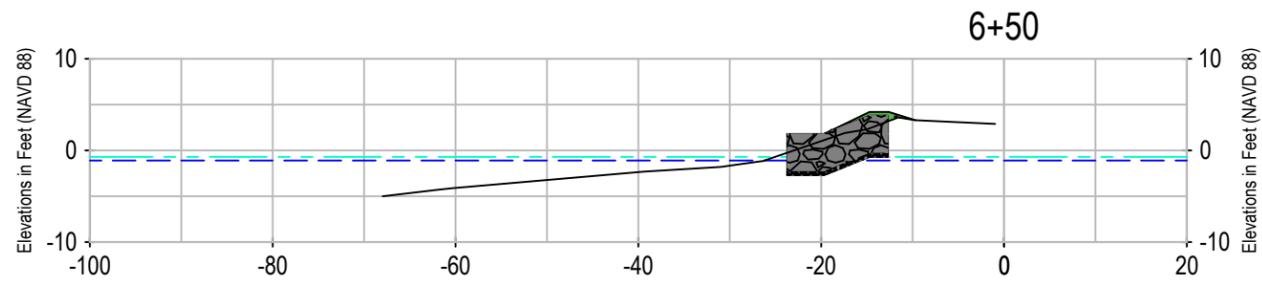
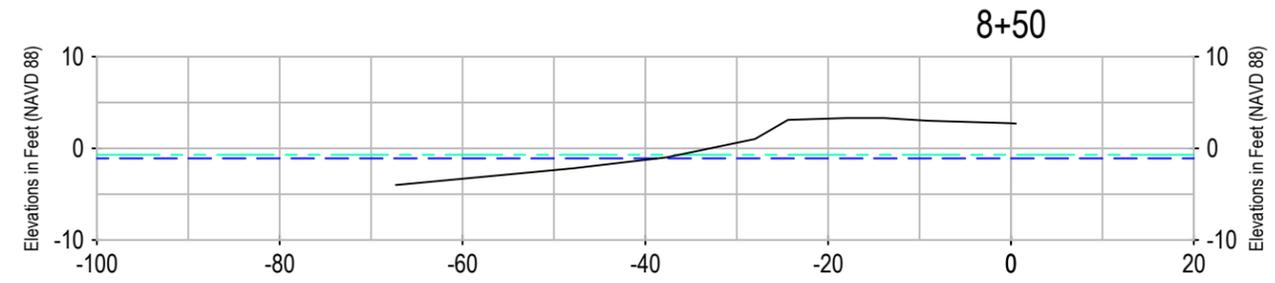
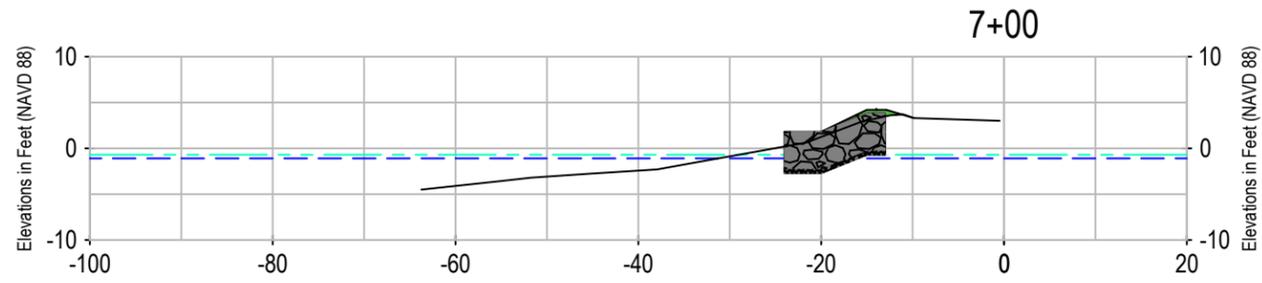
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				NO.	DATE	BY	DATE
BDF	BDF	TJR	RTB				

INDIAN RIVER COUNTY
1801 27TH STREET
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JUNGLE TRAIL SHORELINE STABILIZATION PROJECT
WABASSO, FL
PROPOSED DESIGN - SECTION VIEW

LEGEND:

- - - MEAN HIGH WATER LINE (-0.72 FT NAVD 88)
- - - MEAN LOW WATER LINE (-1.09 FT NAVD 88)
- RIP RAP
- BEDDING STONE
- PLANTED FILL



VERTICAL SCALE: 1" = 20'
 HORIZONTAL SCALE: 1" = 20'



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INDIAN RIVER COUNTY
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JUNGLE TRAIL SHORELINE STABILIZATION PROJECT
 WABASSO, FL
PROPOSED DESIGN - SECTION VIEW

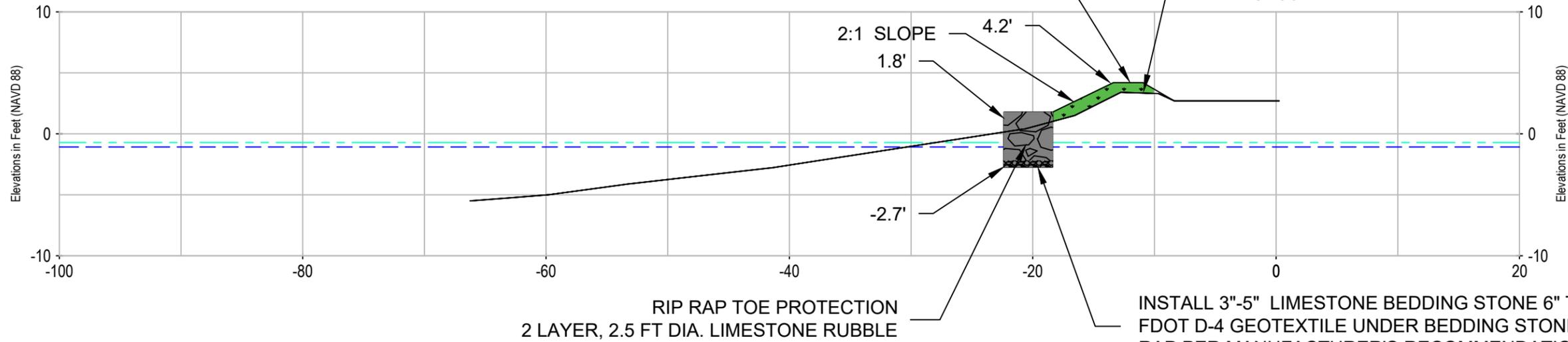
LEGEND:

-  MEAN HIGH WATER LINE (-0.72 FT NAVD 88)
-  MEAN LOW WATER LINE (-1.09 FT NAVD 88)

-  RIP RAP
-  BEDDING STONE
-  PLANTED FILL

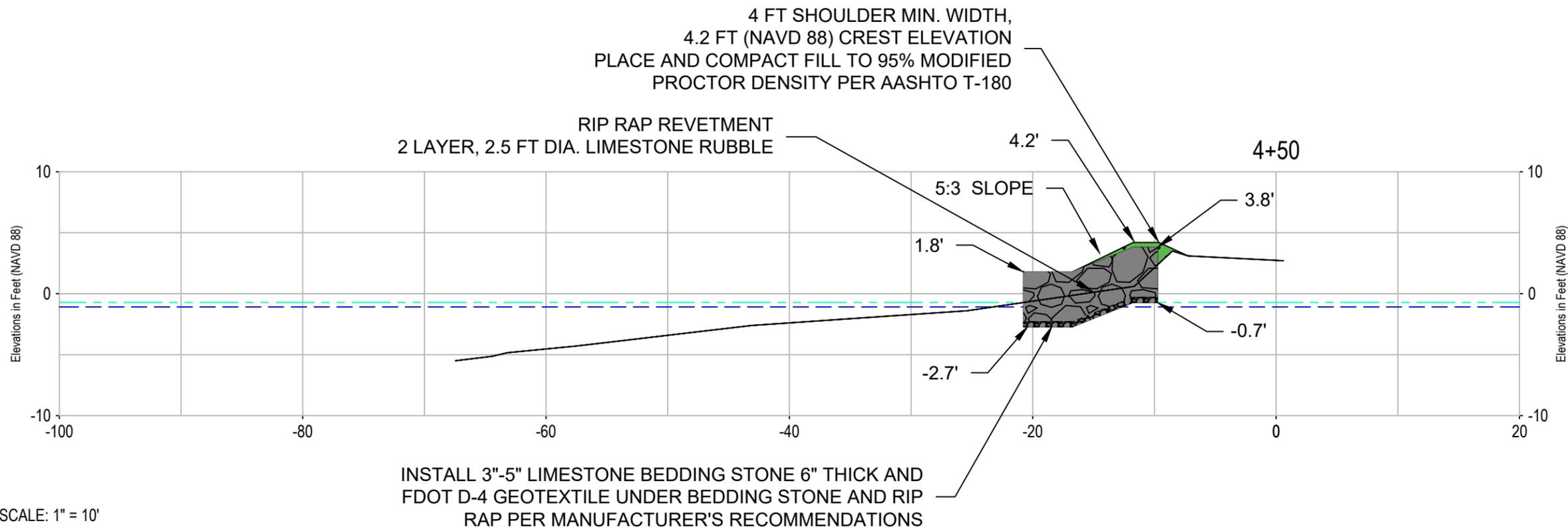
APPLY EROSION CONTROL BLANKET (N.A. GREEN SC-150 OR EQUAL) TO SLOPE AFTER FILL IS PLACED AND COMPACTED.

4 FT SHOULDER MIN. WIDTH,
4.2 FT (NAVD 88) CREST ELEVATION
PLACE AND COMPACT FILL TO 95% MODIFIED
PROCTOR DENSITY PER AASHTO T-180.



RIP RAP TOE PROTECTION
2 LAYER, 2.5 FT DIA. LIMESTONE RUBBLE

INSTALL 3"-5" LIMESTONE BEDDING STONE 6" THICK AND
FDOT D-4 GEOTEXTILE UNDER BEDDING STONE AND RIP
RAP PER MANUFACTURER'S RECOMMENDATIONS



4 FT SHOULDER MIN. WIDTH,
4.2 FT (NAVD 88) CREST ELEVATION
PLACE AND COMPACT FILL TO 95% MODIFIED
PROCTOR DENSITY PER AASHTO T-180

RIP RAP REVETMENT
2 LAYER, 2.5 FT DIA. LIMESTONE RUBBLE

INSTALL 3"-5" LIMESTONE BEDDING STONE 6" THICK AND
FDOT D-4 GEOTEXTILE UNDER BEDDING STONE AND RIP
RAP PER MANUFACTURER'S RECOMMENDATIONS

VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 10'

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BDF	5/29/19		
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TJR	5/29/19		
RTB	5/29/19		

INDIAN RIVER COUNTY
1801 27TH STREET
VERO BEACH, FL 32960

JUNGLE TRAIL SHORELINE
STABILIZATION PROJECT
WABASSO, FL
PROPOSED DESIGN - DETAIL VIEW

LEGEND:

- - - MEAN HIGH WATER LINE (-0.72 FT NAVD 88)
- - - MEAN LOW WATER LINE (-1.09 FT NAVD 88)
- RIP RAP
- BEDDING STONE
- 1 RED MANGROVE ZONE
- 2 BLACK MANGROVE ZONE
- PLANTED FILL
- 3 BUTTWOOD ZONE
- 4 SAND CORDGRASS/SALT GRASS ZONE
- 5 SEA OXEYE DAISY ZONE

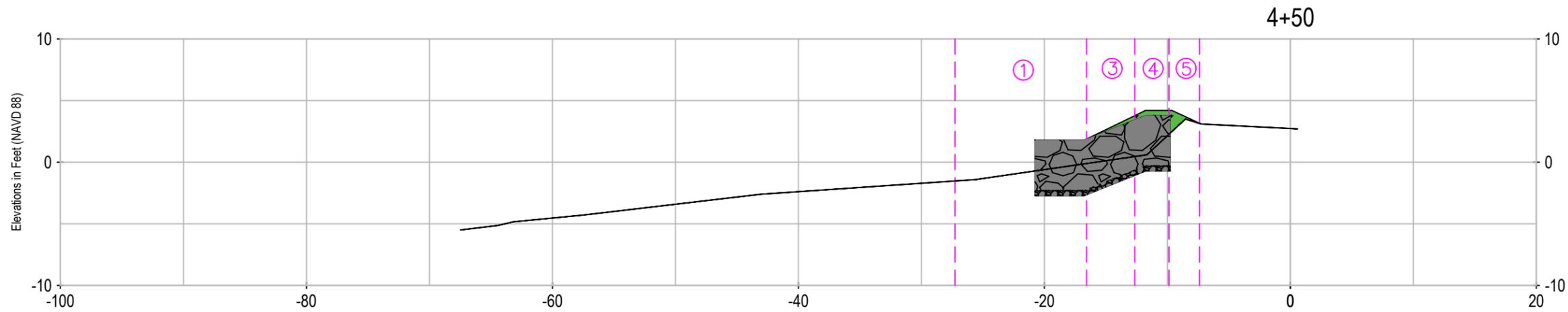
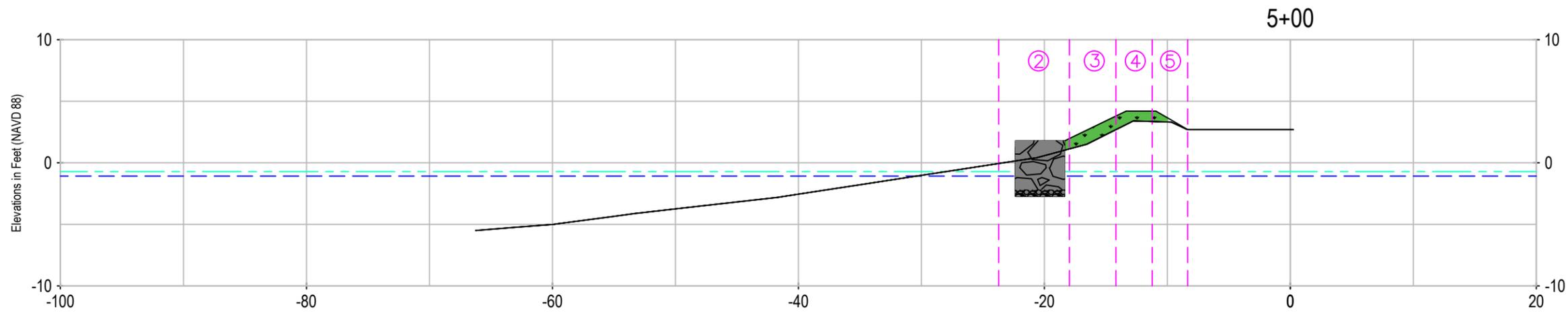


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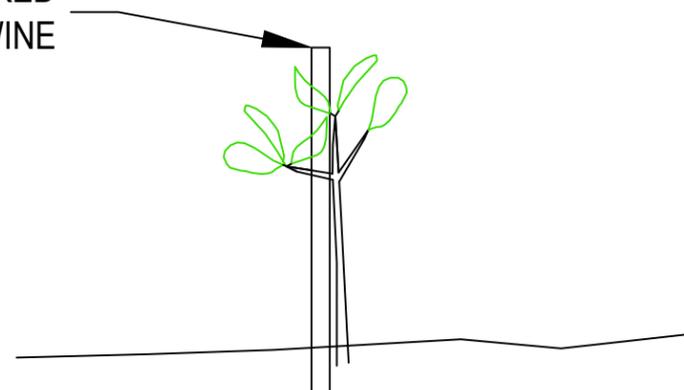
INDIAN RIVER COUNTY
1801 27TH STREET
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JUNGLE TRAIL SHORELINE STABILIZATION PROJECT
WABASSO, FL

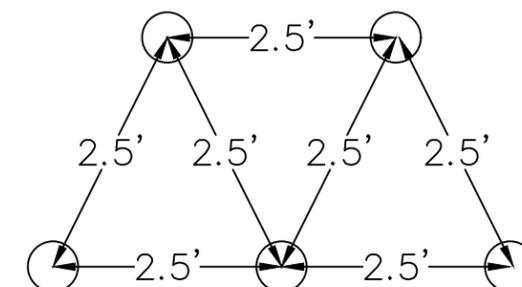
PLANTING PLAN - DETAIL VIEW



MANGROVE PLANTINGS TO BE STAKED AND SECURED WITH TWINE



PLANT SPACING



VERTICAL SCALE: 1" = 10'
HORIZONTAL SCALE: 1" = 10'