











SEDIMENT AND EROSION CONTROL NOTES

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- 1. Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven days to denuded areas that may not be at final grade but will remain dormant for longer than 14 days. Permanent stabilization shall be applied to areas that are to be left dormant for more than one year.
- 2. During construction of the project, soil stock piles and borrow areas shall be stabilized or protected with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as borrow areas and soil intentionally transported from the project site.
- 3. A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that is uniform, mature enough to survive and will inhibit erosion.
- 4. Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before upslope land disturbance takes place.
- 5. Stabilization measures shall be applied to earthen structures such as dams, dikes and diversions immediately after installation.
- 6. Sediment traps and sediment basins shall be designed and constructed based upon the total drainage area to be served by the trap or basin.
  - a. The minimum storage capacity of a sediment trap shall be 134 cubic yards per acre of drainage area and the trap shall only control drainage areas less than three acres.
  - b. Surface runoff from disturbed areas that is comprised of flow from drainage areas greater than or equal to three acres shall be controlled by a sediment basin. The minimum storage capacity of a sediment basin shall be 134 cubic yards per acre of drainage area. The outfall system shall, at a minimum, maintain the structural integrity of the basin during a 25-year storm of 24-hour duration. Runoff coefficients used in runoff calculations shall correspond to a bare earth condition or those conditions expected to exist while the sediment basin is utilized.
- 7. Cut and fill slopes shall be designed and constructed in a manner that will minimize erosion. Slopes that are found to be eroding excessively within one year of permanent stabilization shall be provided with additional slope stabilizing measures until the problem is corrected.
- 8. Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure.
- 9. Whenever water seeps from a slope face, adequate drainage or other protection shall be provided.
- 10. All storm sewer inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.
- 11. Before newly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel lining shall be installed in both the conveyance channel and receiving channel.
- 12. When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction. Nonerodible material shall be used for the construction of causeways and cofferdams. Earthen fill may be used for these structures if armored by nonerodible cover materials.
- 13. When a live watercourse must be crossed by construction vehicles more than twice in any six-month period, a temporary vehicular stream crossing constructed of nonerodible material shall be provided.
- 14. All applicable federal, state and local requirements pertaining to working in or crossing live watercourses shall be met.
- 15. The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed.
- 16. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
  - a. No more than 500 linear feet of trench may be opened at one time.
  - b. Excavated material shall be placed on the uphill side of trenches.
  - c. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
  - d. Material used for backfilling trenches shall be properly compacted in order to minimize erosion and promote stabilization.
  - e. Restabilization shall be accomplished in accordance with this chapter.
  - f. Applicable safety requirements shall be complied with.
- 17. Where construction vehicle access routes intersect paved or public roads, provisions shall be made to minimize the transport of sediment by vehicular tracking onto the paved surface. Where sediment is transported onto a paved or public road surface, the road surface shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual development lots as well as to larger land-disturbing activities.
- 18. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed, unless otherwise authorized by the VESCP authority. Trapped sediment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently stabilized to prevent further erosion and sedimentation.

- 19. Properties and waterways downstream from development sites shall be protected from sediment deposition, erosion and damage due to increases in volume, velocity and peak flow rate of stormwater runoff for the stated frequency storm of 24-hour duration in accordance with the following standards and criteria. Stream restoration and relocation projects that incorporate natural channel design concepts are not man-made channels and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels:
  - a. Concentrated stormwater runoff leaving a development site shall be discharged directly into an adequate natural or man-made receiving channel, pipe or storm sewer system. For those sites where runoff is discharged into a pipe or pipe system, downstream stability analyses at the outfall of the pipe or pipe system shall be performed.
  - b. Adequacy of all channels and pipes shall be verified in the following manner:
    - (1) The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is 100 times greater than the contributing drainage area of the project in question; or
    - (2) (a) Natural channels shall be analyzed by the use of a two-year storm to verify that stormwater will not overtop channel banks nor cause erosion of channel bed or banks;
    - (b) All previously constructed man-made channels shall be analyzed by the use of a 10-year storm to verify that stormwater will not overtop its banks and by the use of a two-year storm to demonstrate that stormwater will not cause erosion of channel bed or banks; and
    - (c) Pipes and storm sewer systems shall be analyzed by the use of a 10-year storm to verify that stormwater will be contained within the pipe or system.
  - c. If existing natural receiving channels or previously constructed man-made channels or pipes are not adequate, the applicant shall:
    - (1) Improve the channels to a condition where a 10-year storm will not overtop the banks and a two-year storm will not cause erosion to the channel, the bed, or the banks;
    - (2) Improve the pipe or pipe system to a condition where the 10-year storm is contained within the appurtenances;
    - (3) Develop a site design that will not cause the pre-development peak runoff rate from a two-year storm to increase when runoff outfalls into a natural channel or will not cause the pre-development peak runoff rate from a 10-year storm to increase when runoff outfalls into a man-made channel; or
    - (4) Provide a combination of channel improvement, stormwater detention or other measures which is satisfactory to the VESCP authority to prevent downstream erosion.
  - d. The applicant shall provide evidence of permission to make the improvements.
  - e. All hydrologic analyses shall be based on the existing watershed characteristics and the ultimate development condition of the subject project.
  - f. If the applicant chooses an option that includes stormwater detention, he shall obtain approval from the VESCP of a plan for maintenance of the detention facilities. The plan shall set forth the maintenance requirements of the facility and the person responsible for performing the maintenance.
  - g. Outfall from a detention facility shall be discharged to a receiving channel, and energy dissipators shall be placed at the outfall of all detention facilities as necessary to provide a stabilized transition from the facility to the receiving channel.
  - h. All on-site channels must be verified to be adequate.
  - i. Increased volumes of sheet flows that may cause erosion or sedimentation on adjacent property shall be diverted to a stable outlet, adequate channel, pipe or pipe system, or to a detention facility.
  - j. In applying these stormwater management criteria, individual lots or parcels in a residential, commercial or industrial development shall not be considered to be separate development projects. Instead, the development, as a whole, shall be considered to be a single development project. Hydrologic parameters that reflect the ultimate development condition shall be used in all engineering calculations.
  - k. All measures used to protect properties and waterways shall be employed in a manner which minimizes impacts on the physical, chemical and biological integrity of rivers, streams and other waters of the state.
  - l. Any plan approved prior to July 1, 2014, that provides for stormwater management that addresses any flow rate capacity and velocity requirements for natural or man-made channels shall satisfy the flow rate capacity and velocity requirements for natural or man-made channels if the practices are designed to (i) detain the water quality volume and to release it over 48 hours; (ii) detain and release over a 24-hour period the expected rainfall resulting from the one year, 24-hour storm; and (iii) reduce the allowable peak flow rate resulting from the 1.5, 2, and 10-year, 24-hour storms to a level that is less than or equal to the peak flow rate from the site assuming it was in a good forested condition, achieved through multiplication of the forested peak flow rate by a reduction factor that is equal to the runoff volume from the site when it was in a good forested condition divided by the runoff volume from the site in its proposed condition, and shall be exempt from any flow rate capacity and velocity requirements for natural or man-made channels as defined in any regulations promulgated pursuant to § 62.1-44.15:54 or 62.1-44.15:65 of the Act.
  - m. For plans approved on and after July 1, 2014, the flow rate capacity and velocity requirements of § 62.1-44.15:52 A of the Act and this subsection shall be satisfied by compliance with water quantity requirements in the Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and attendant regulations, unless such land-disturbing activities (i) are in accordance with provisions for time limits on applicability of approved design criteria in 9VAC25-870-47 or grandfathering in 9VAC25-870-48 of the Virginia Stormwater Management Program (VSMP) Regulation, in which case the flow rate capacity and velocity requirements of § 62.1-44.15:52 A of the Act shall apply, or (ii) are exempt pursuant to § 62.1-44.15:34 C 7 of the Act.
  - n. Compliance with the water quantity minimum standards set out in 9VAC25-870-66 of the Virginia Stormwater Management Program (VSMP) Regulation shall be deemed to satisfy the requirements of this subdivision 19.



**US Army Corps of Engineers**

DESIGNED BY: S. STELLO DRAWN BY: S. STELLO CHECKED BY: T. KNIGHT SUBMITTED BY: T. MURPHY SIZE: 22"x34"	ISSUE DATE: TBD SOLICITATION NO.: W912PM24B0013 CONTRACT NO.: TBD DRAWING CODE: JK 103-07-38 FILE NAME: IslandCreek_C100_EROSION NOTES.dwg
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U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT  
69 DARLINGTON AVENUE  
WILMINGTON, NORTH CAROLINA 28403

ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA

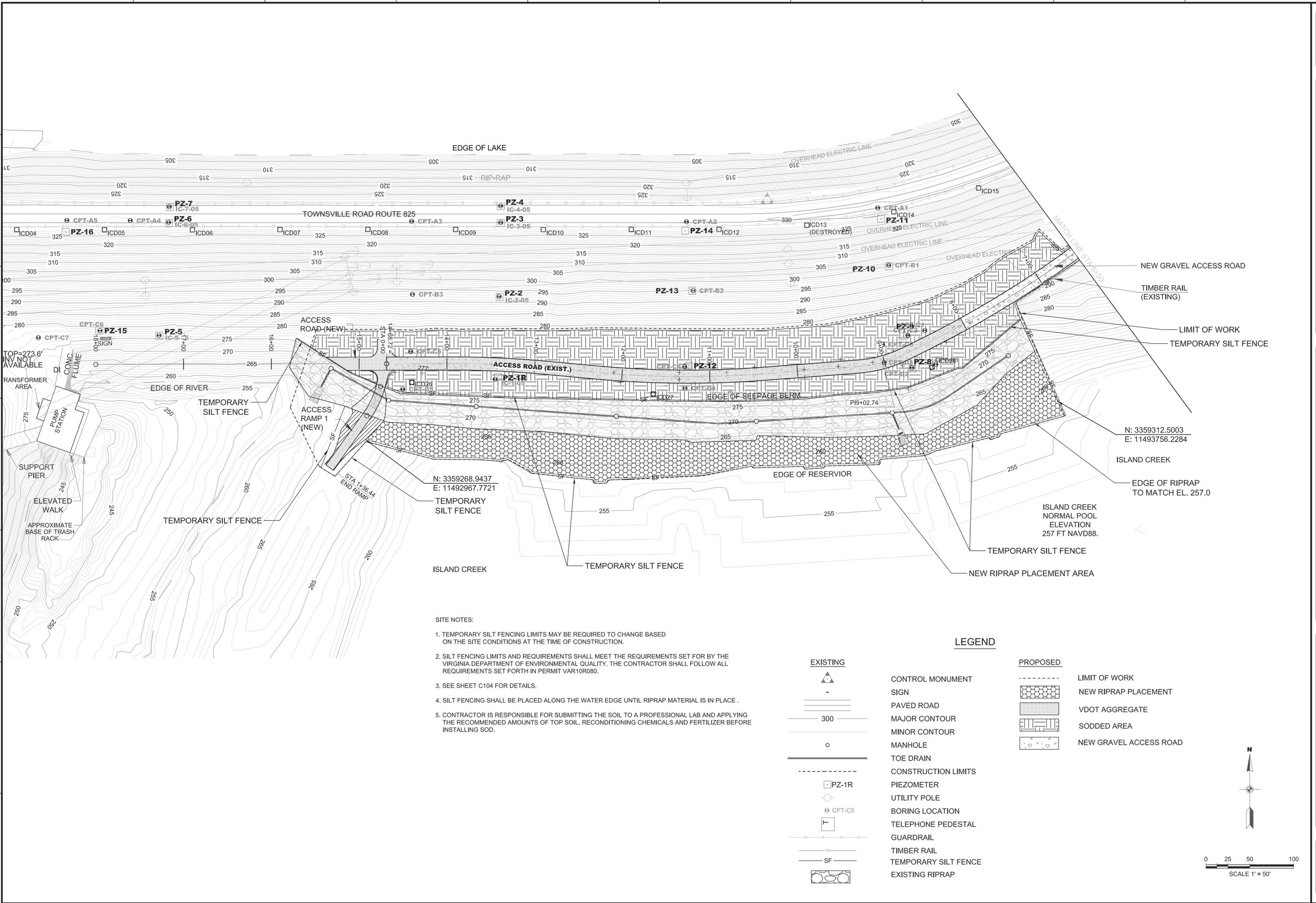
**EROSION AND SEDIMENT CONTROL  
PLAN NOTES**

SHEET ID  
**C100**

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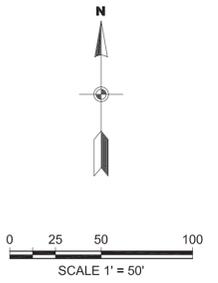




- SITE NOTES:**
1. TEMPORARY SILT FENCING LIMITS MAY BE REQUIRED TO CHANGE BASED ON THE SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
  2. SILT FENCING LIMITS AND REQUIREMENTS SHALL MEET THE REQUIREMENTS SET FOR BY THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY. THE CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS SET FORTH IN PERMIT VAR10R080.
  3. SEE SHEET C104 FOR DETAILS.
  4. SILT FENCING SHALL BE PLACED ALONG THE WATER EDGE UNTIL RIPRAP MATERIAL IS IN PLACE .
  5. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING THE SOIL TO A PROFESSIONAL LAB AND APPLYING THE RECOMMENDED AMOUNTS OF TOP SOIL, RECONDITIONING CHEMICALS AND FERTILIZER BEFORE INSTALLING SOD.

**LEGEND**

EXISTING CONTROL MONUMENT	PROPOSED LIMIT OF WORK
SIGN	NEW RIPRAP PLACEMENT
PAVED ROAD	VDOT AGGREGATE
MAJOR CONTOUR	SODDED AREA
MINOR CONTOUR	NEW GRAVEL ACCESS ROAD
MANHOLE	
TOE DRAIN	
CONSTRUCTION LIMITS	
PIEZOMETER	
UTILITY POLE	
BORING LOCATION	
TELEPHONE PEDESTAL	
GUARDRAIL	
TIMBER RAIL	
TEMPORARY SILT FENCE	
EXISTING RIPRAP	



MARK	DESCRIPTION	DATE

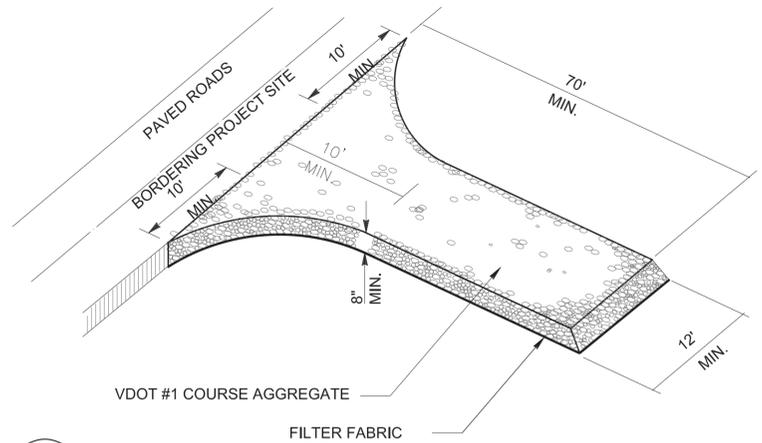
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DRAWN BY: S. STELLO	SOLICITATION NO.: W912P24B0013
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SUBMITTED BY: T. MURPHY	DRAWING CODE: JK 103-07-38
FILE NAME: IslandCreek_C103_ESS_site_plan.dwg	SIZE: 22"x34"

ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA

EROSION AND SEDIMENT CONTROL PLAN  
TOP OF SEEPAGE BERM

SHEET ID  
**C103**

READY TO ADVERTISE (RTA)

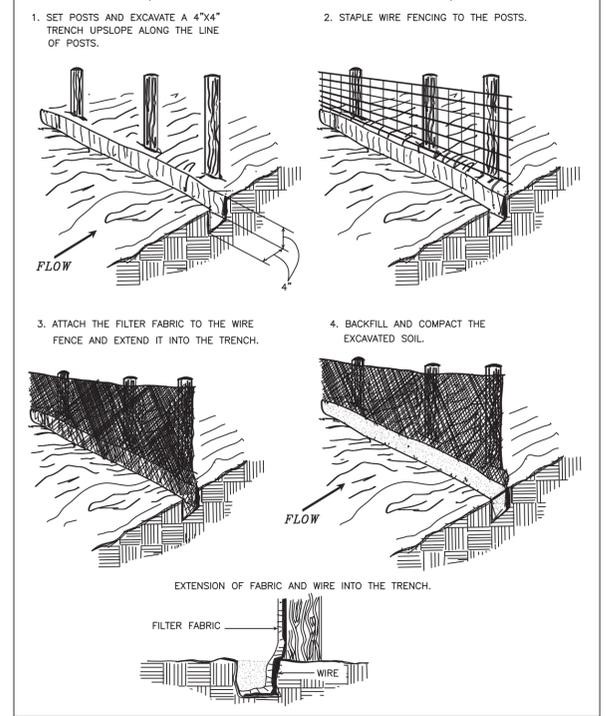


TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT (VADEQ ESCM STD. 3.02)  
GI02 NOT TO SCALE

NOTES CONSTRUCTION ENTRANCE/EXIT:

THE ENTRANCE/EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS OR RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH NCDOT CLASS A STONE, AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS SHALL BE REMOVED IMMEDIATELY. ENTRANCE/EXITS WILL BE REQUIRED FOR BOTH THE SEEPAGE BERM AND BORROW AREA ACCESS POINTS.

CONSTRUCTION OF A SILT FENCE (WITH WIRE SUPPORT)

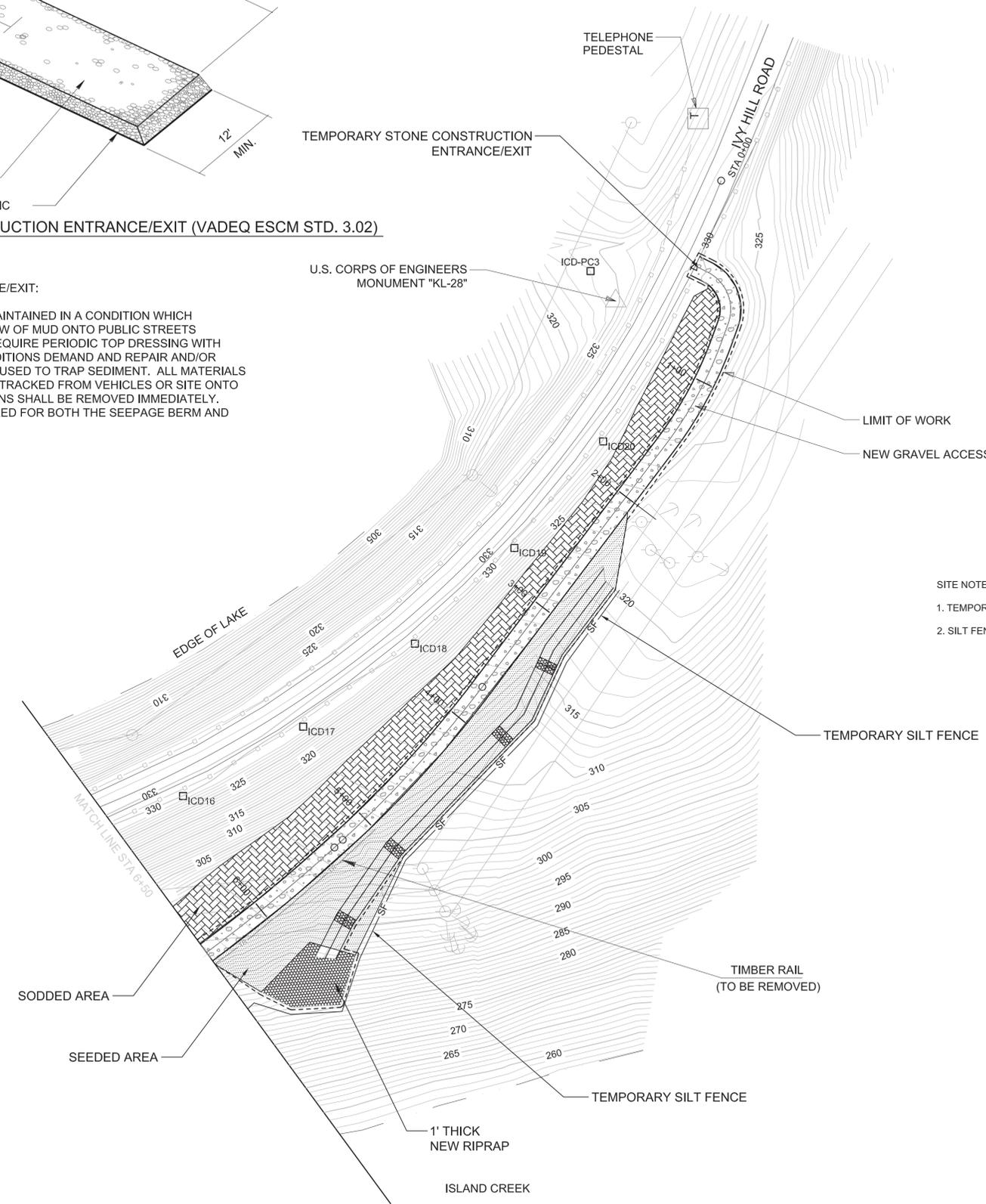


SOURCE: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, PLATE 3.05-1 Sherwood & Njant

TEMPORARY SILT FENCE (TSF) (VDEQ ESC HANDBOOK PLATE 3.05-1)  
NOT TO SCALE

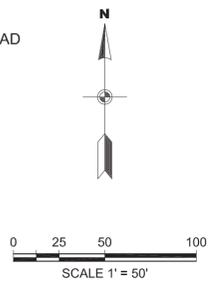
SITE NOTES:

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2. SILT FENCING LIMITS AND REQUIREMENTS SHALL MEET THE REQUIREMENTS SET FOR BY THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY.



**LEGEND**

<b>EXISTING</b>	<b>PROPOSED</b>
CONTROL MONUMENT	LIMIT OF WORK
SIGN	RIPRAP PLACEMENT
PAVED ROAD	SEEDED AREA
MAJOR CONTOUR	SODDED AREA
MINOR CONTOUR	NEW GRAVEL ACCESS ROAD
MANHOLE	
TOE DRAIN	
CONSTRUCTION LIMITS	
PIEZOMETER	
UTILITY POLE	
BORING LOCATION	
TELEPHONE PEDESTAL	
GUARDRAIL	
TIMBER RAIL	



DATE	
DESCRIPTION	
MARK	

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S. STELO	W912PM24B0013
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T. KNIGHT	TBD
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T. MURPHY	JK 103-07-38
SIZE:	FILE NAME:
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U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT  
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ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA

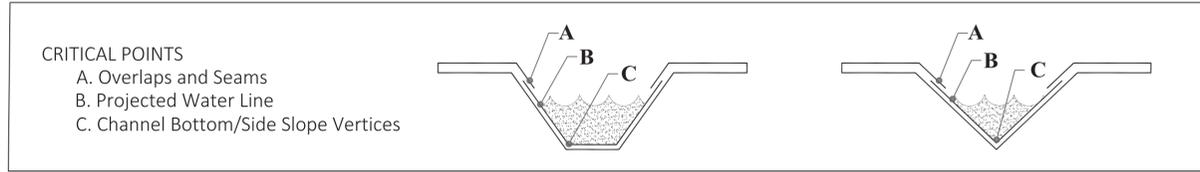
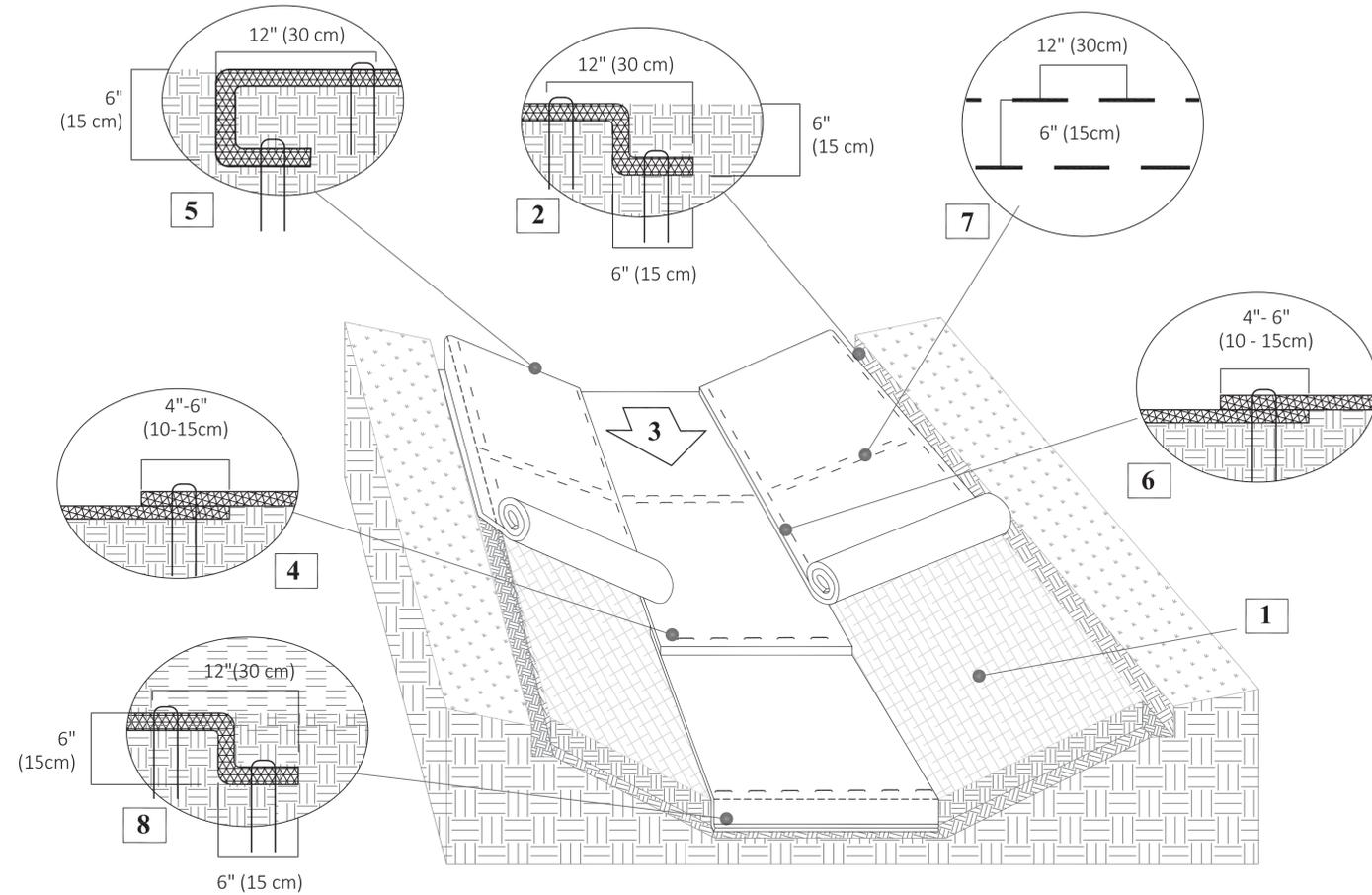
EROSION AND SEDIMENT CONTROL PLAN  
ACCESS ROAD

SHEET ID  
**C104**

READY TO ADVERTISE (RTA)





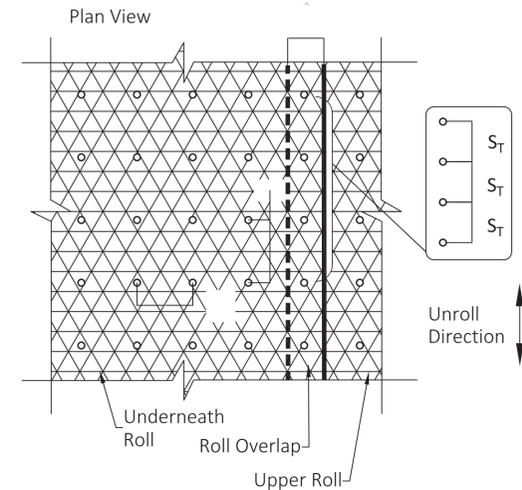


**NOTES:**  
 \*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

**Instructions**

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of debris, rocks, clay clods and raked smooth sufficient to allow intimate contact of the RECP with the soil over the entirety of the installation.
2. Begin at the top of the channel by anchoring the RECPs in a 6" (15 cm) deep X 6" (15 cm) wide trench with approximately 12" (30 cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes/pins approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12" (30 cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes/pins spaced approximately 12" (30 cm) apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4"- 6" (10 - 15 cm) overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes/pins spaced at  $S_T$  apart in a 6" (15 cm) deep X 6"(15 cm) wide trench. Backfill and compact the trench after stapling.
6. Adjacent RECPs must be overlapped approximately 4"- 6" (10 - 15 cm) and secured with staples/stakes/pins at  $S_T$ .
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9 -12m) intervals. Use a double row of staples staggered 6" (15 cm) apart and 12" (30 cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes/pins spaced at  $S_T$  apart in a 6" (15 cm) deep X 6" (15 cm) wide trench. Backfill and compact the trench after stapling.
9. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky soils, straight pins may be used where staples or twist pins are refused, provided the minimum pullout requirements are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials.

**Staple Pattern Guide**



○ Pin / Staple / Twist Pin, as appropriate for field conditions

Dimension	Staple Pattern
$W_T$	20" (50 cm)
$L_T$	20" (50 cm)
$S_T$	18" (45 cm)
Nominal Frequency	3.8 / SY



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MARK	DESCRIPTION	DATE

DESIGNED BY: S. STELLO	ISSUE DATE: TBD
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CHECKED BY: T. KNIGHT	CONTRACT NO.: TBD
SUBMITTED BY: T. MURPHY	DRAWING CODE: JK 103-07-38
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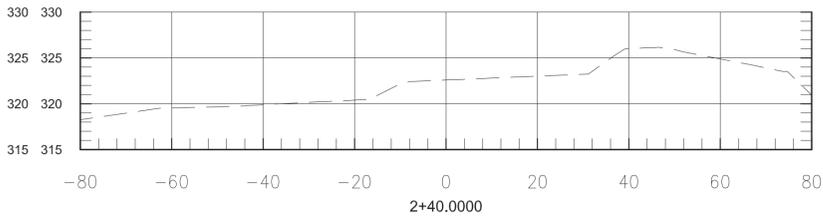
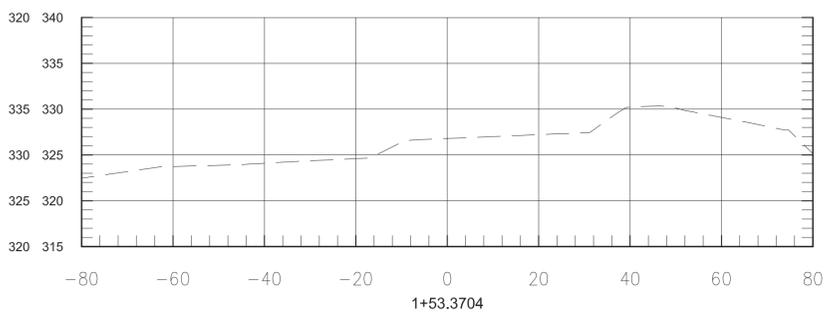
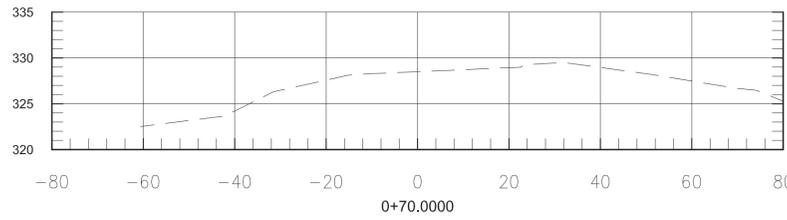
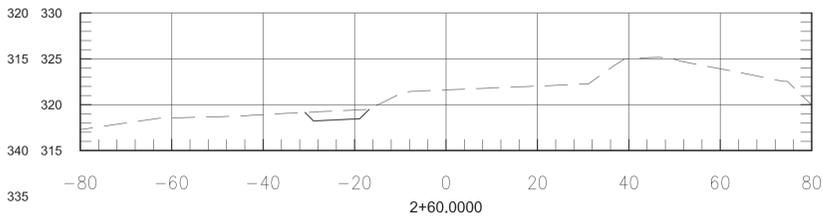
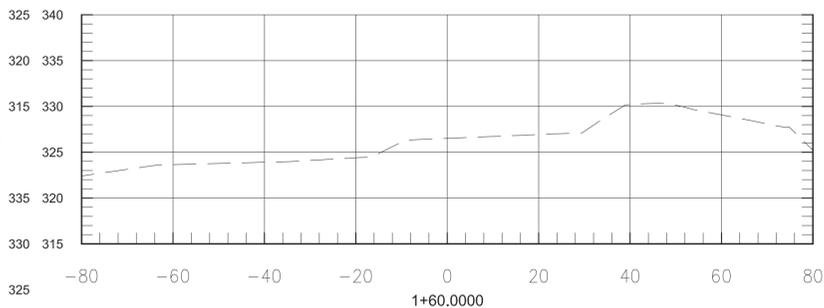
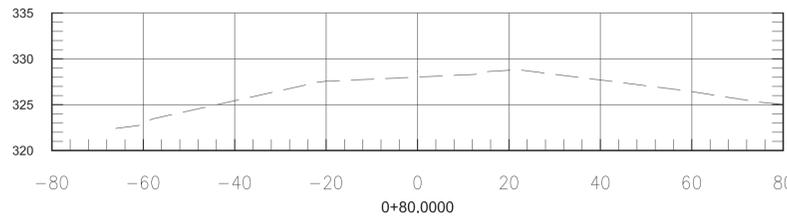
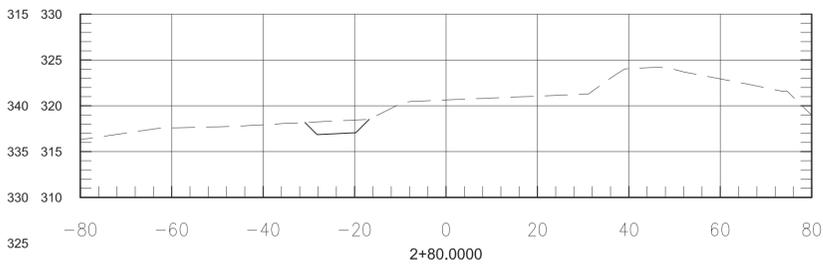
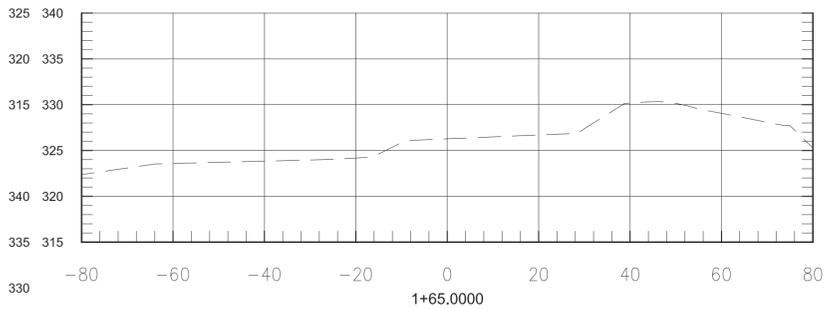
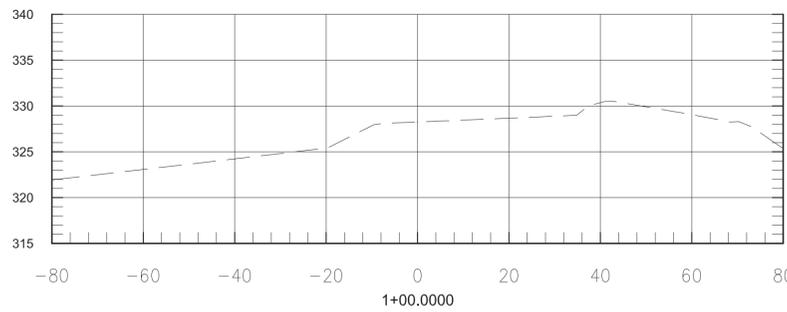
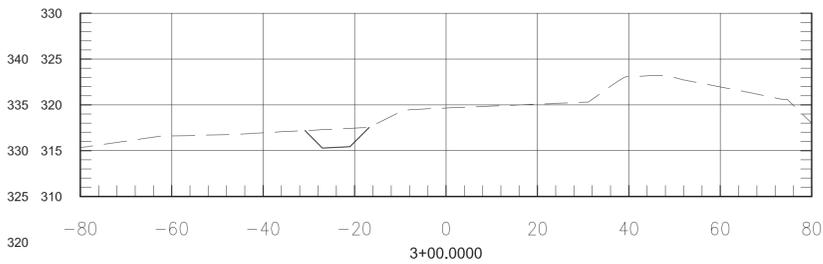
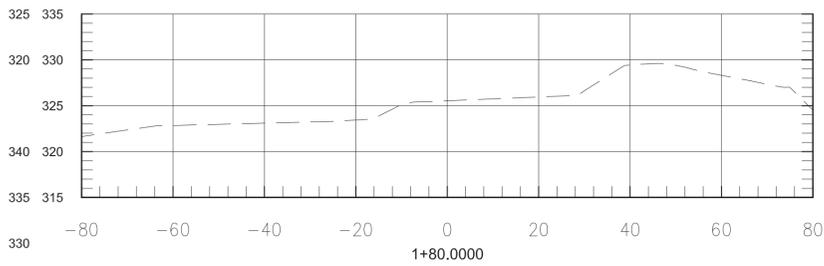
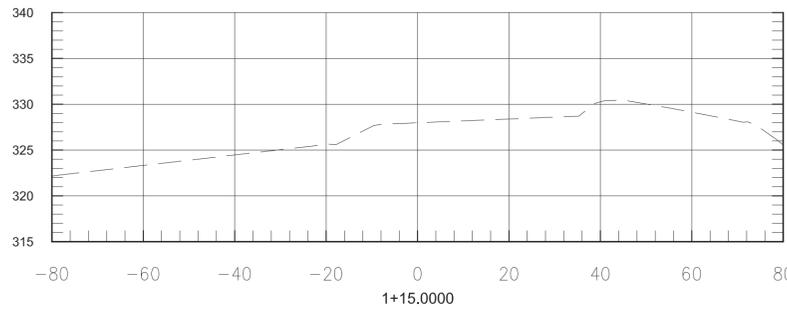
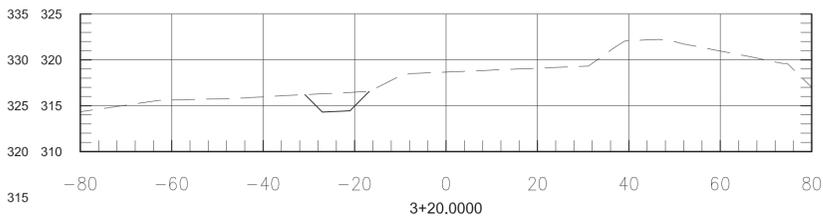
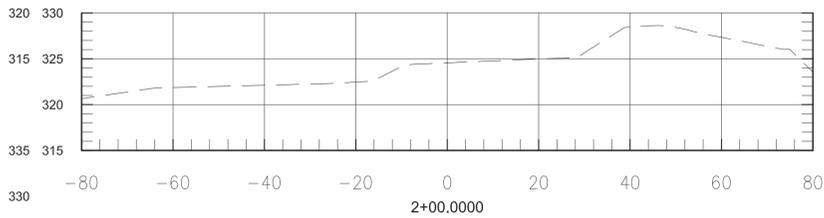
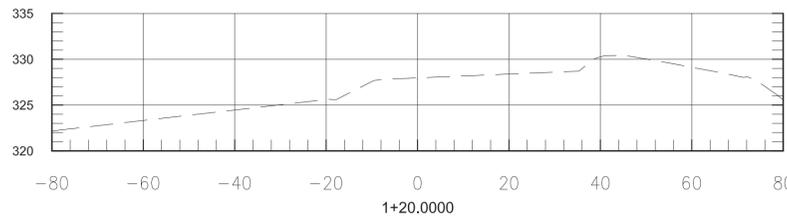
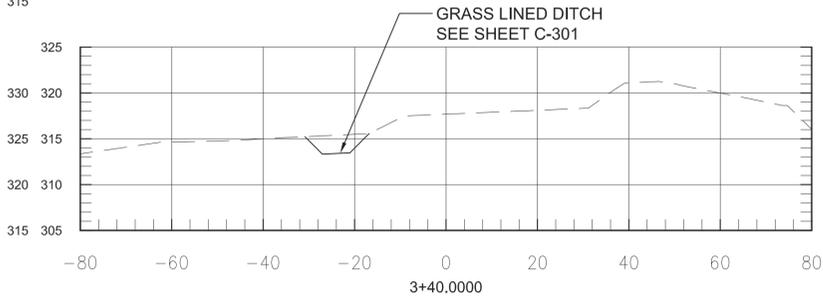
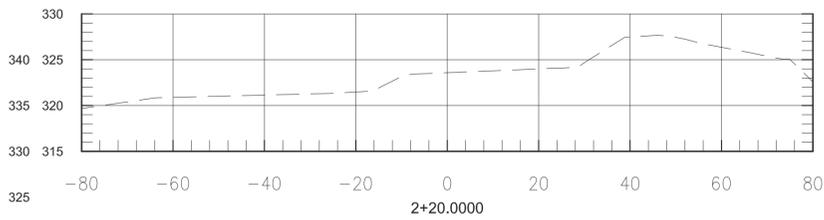
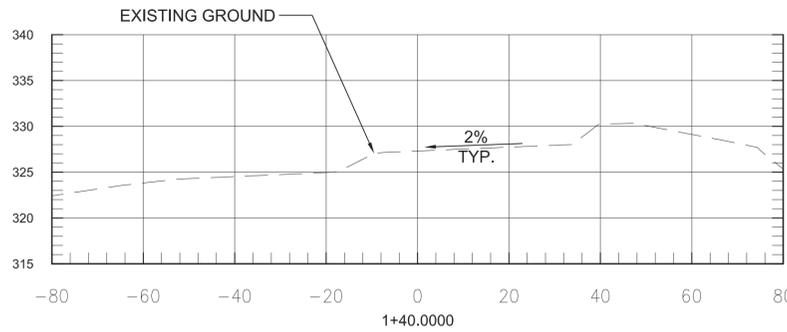
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 68 DARLINGTON AVENUE  
 WILMINGTON, NORTH CAROLINA 28403

ISLAND CREEK SEEPAGE BERM REPAIR,  
 MECKLENBURG COUNTY,  
 VIRGINIA

INSTALLATION INSTRUCTIONS  
 TURF REINFORCEMENT MATTING

SHEET ID  
**C302**

READY TO ADVERTISE (RTA)



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

DESIGNED BY: S. STELLO	ISSUE DATE: TBD
DRAWN BY: S. STELLO	SOLICITATION NO.: C812P/28403
CHECKED BY: T. KUCHT	CONTRACT NO.: TBD
SUBMITTED BY: T. MURPHY	DRAWING CODE: JK 103-07-39
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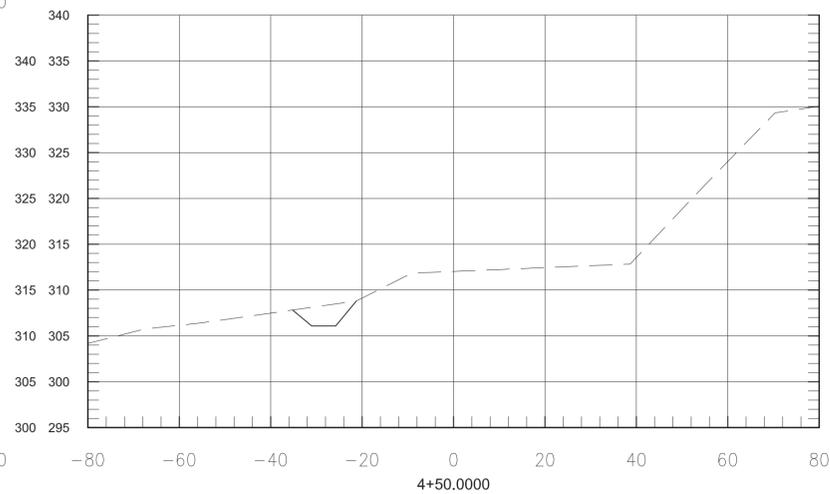
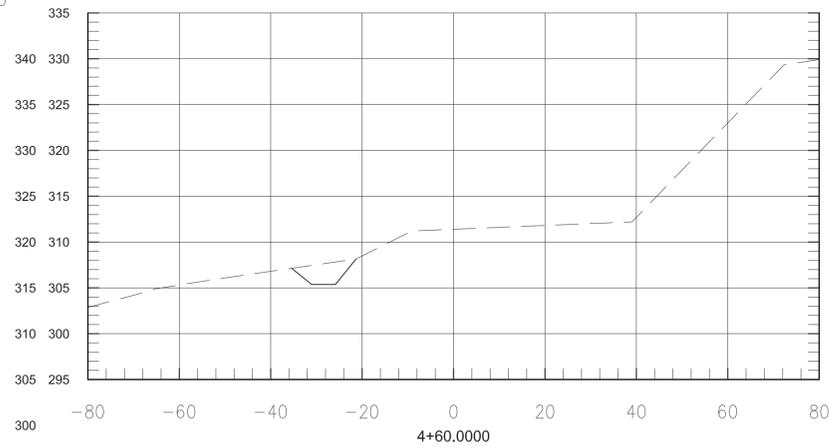
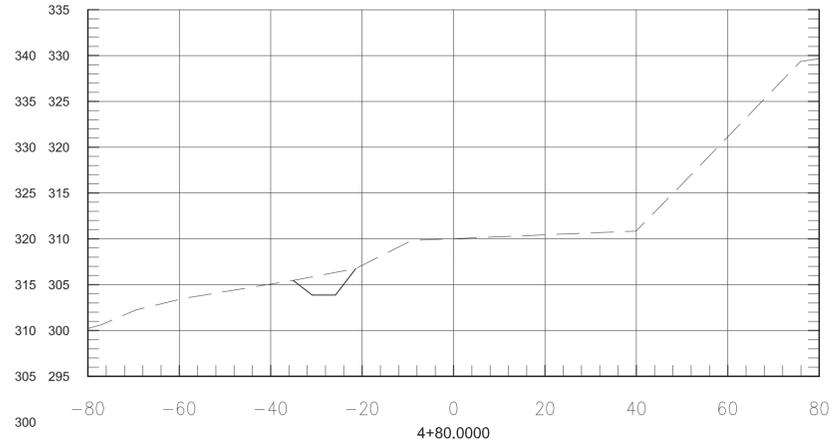
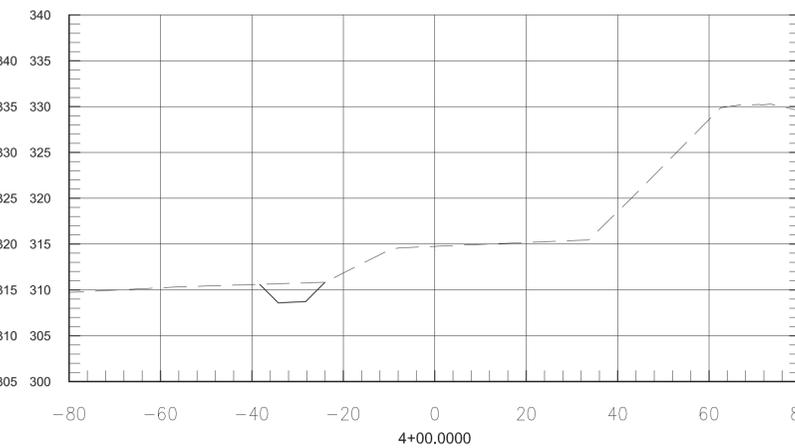
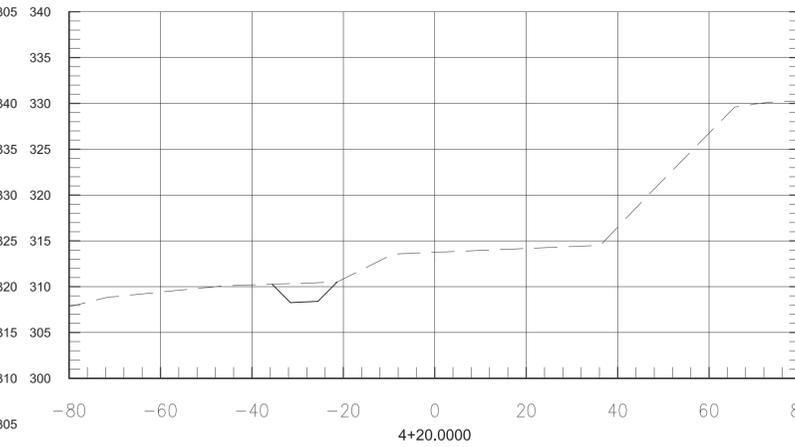
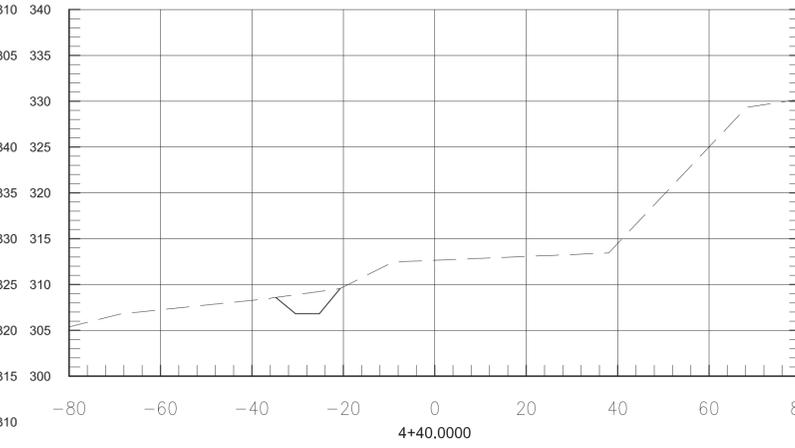
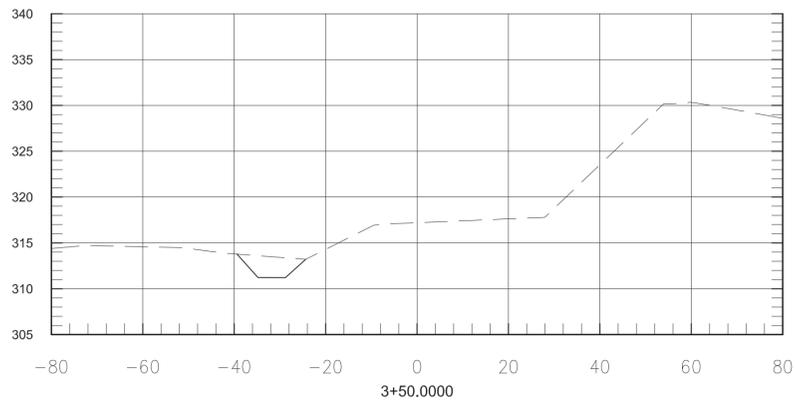
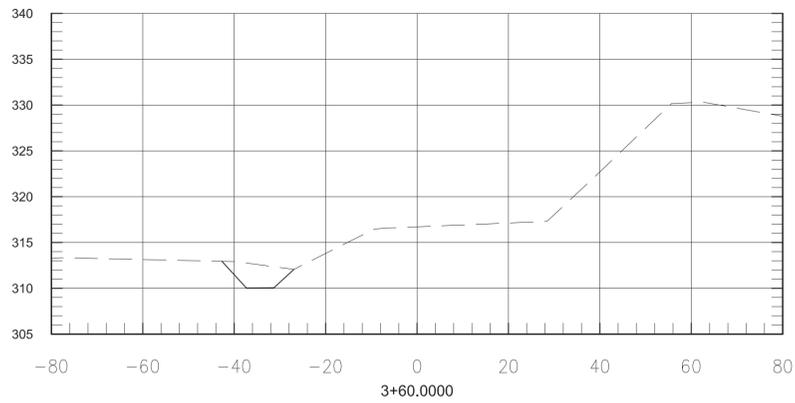
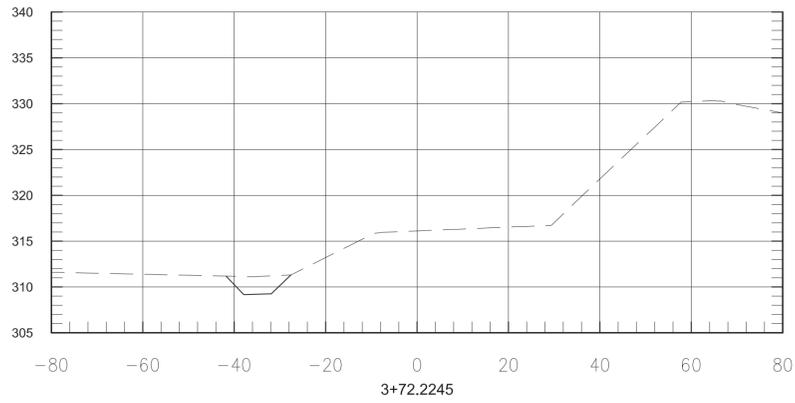
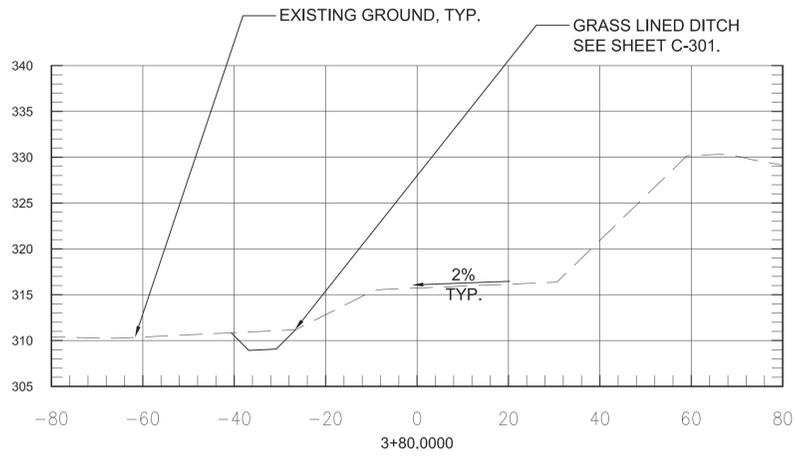
U.S. ARMY CORPS OF ENGINEERS  
69 DARLINGTON AVENUE  
WILMINGTON, NORTH CAROLINA 28403

ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA  
ACCESS ROADS CROSS SECTIONS  
STA. 0+70 TO STA. 3+40

SHEET ID  
C303

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DESIGNED BY: S. STELLO	ISSUE DATE:
DRAWN BY: S. STELLO	SOLICITATION NO.:
CHECKED BY: T. KNUFT	CONTRACT NO.:
DATE:	DRAWING CODE:
FILE NAME:	SIZE:

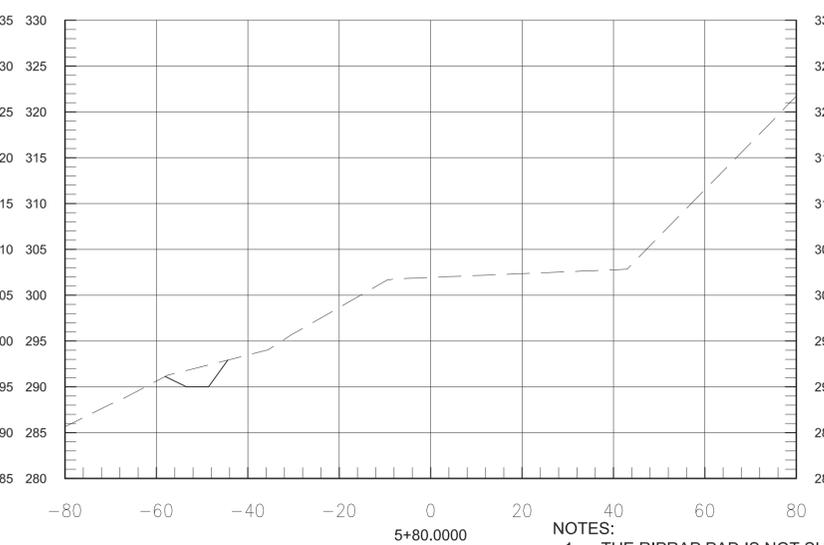
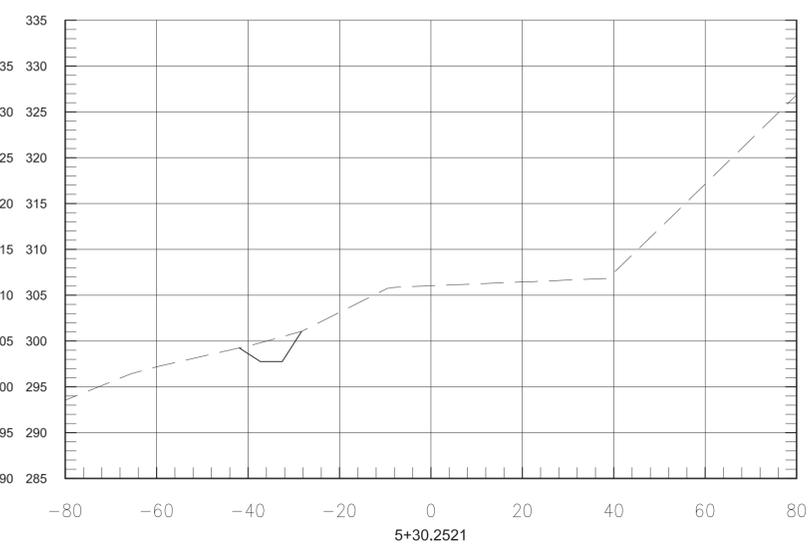
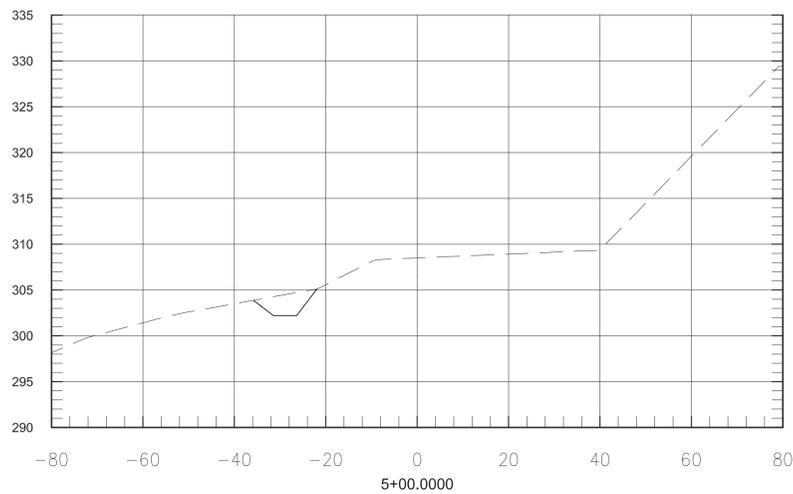
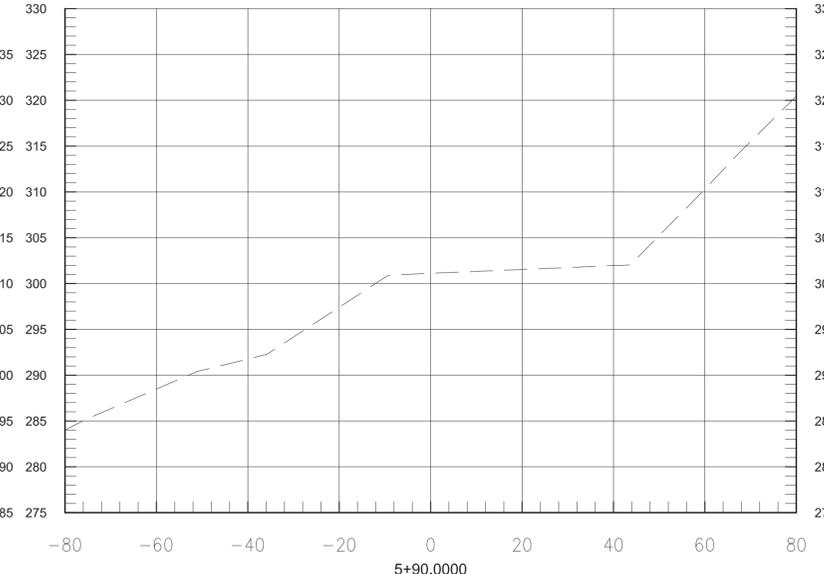
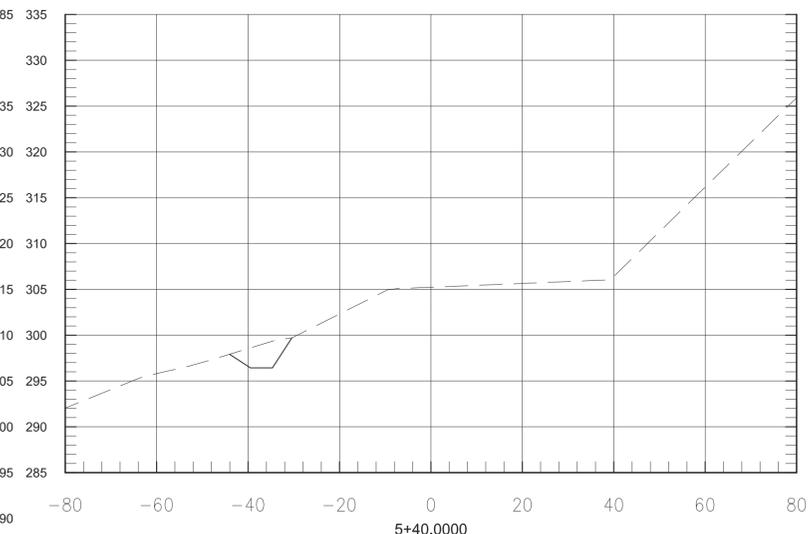
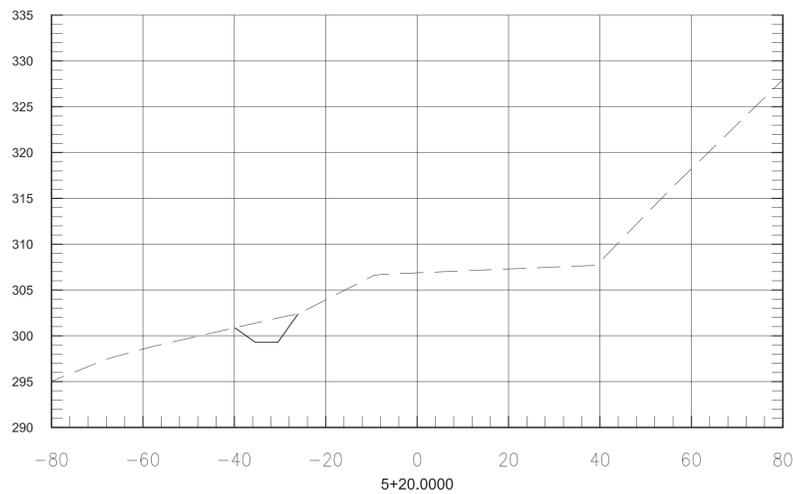
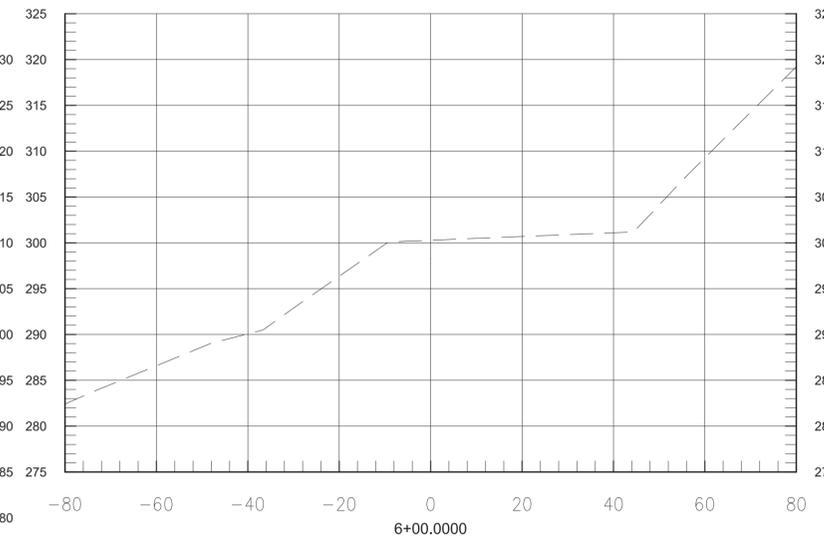
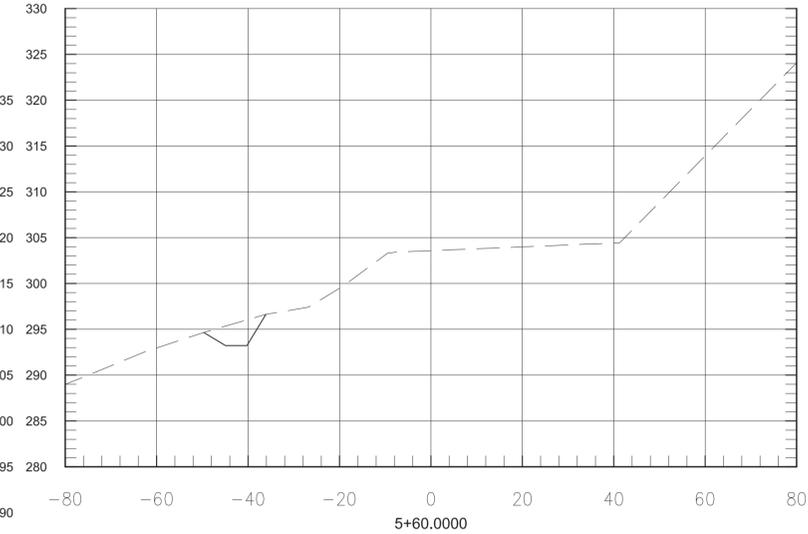
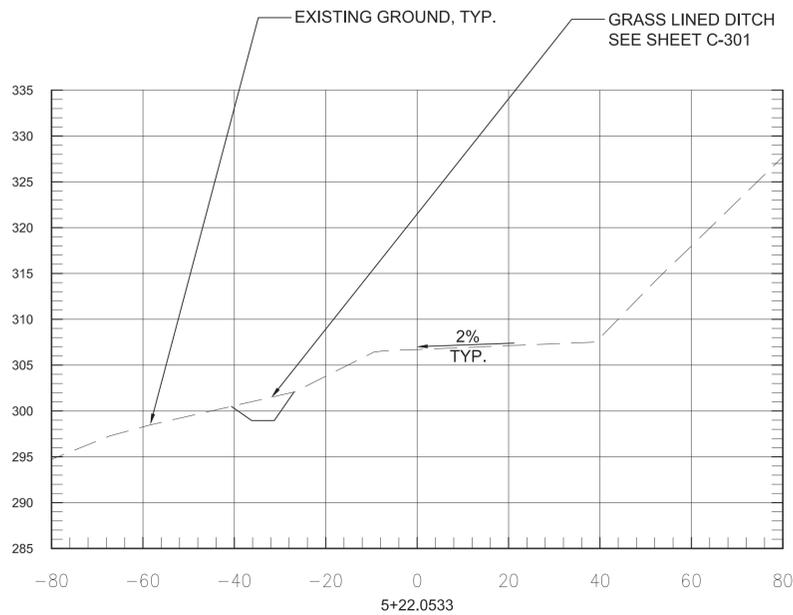
ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA

ACCESS ROADS CROSS SECTIONS  
STA. 3+50 TO STA. 4+80

SHEET ID  
C304

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NOTES:  
1. THE RIPRAP PAD IS NOT SHOWN FOR CLARITY. SEE SHEET C-102 FOR COORDINATES OF THE RIPRAP PAD.



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DESIGNED BY: S. STELLO	ISSUE DATE: TBD
DRAWN BY: S. STELLO	SOLICITATION NO.: 6812PZ65003
CHECKED BY: T. KNIGHT	CONTRACT NO.: TBD
SUBMITTED BY: T. MURPHY	DRAWING CODE: JK 103-07-38
FILE NAME: _C302_31_cross_sections.dwg	SIZE: 22"x34"

U.S. ARMY CORPS OF ENGINEERS  
69 DARLINGTON AVENUE  
WILMINGTON, NORTH CAROLINA 28403

ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA  
ACCESS ROADS CROSS SECTIONS  
STA. 5+00 TO STA. 6+00

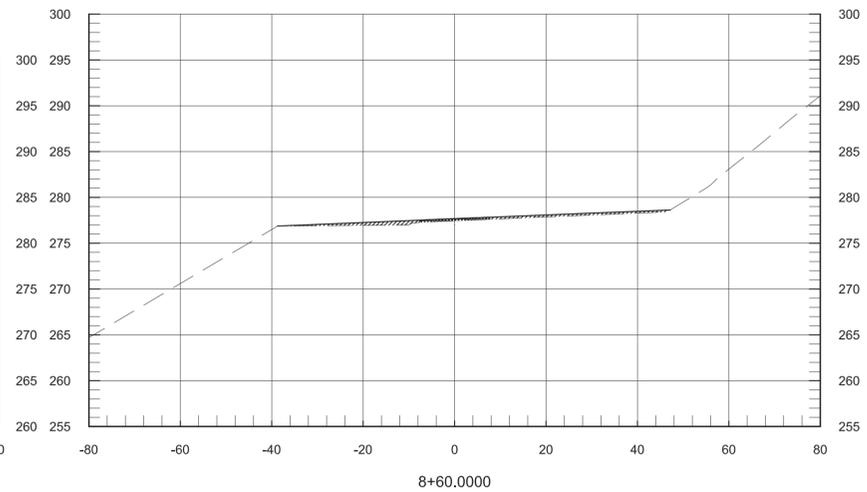
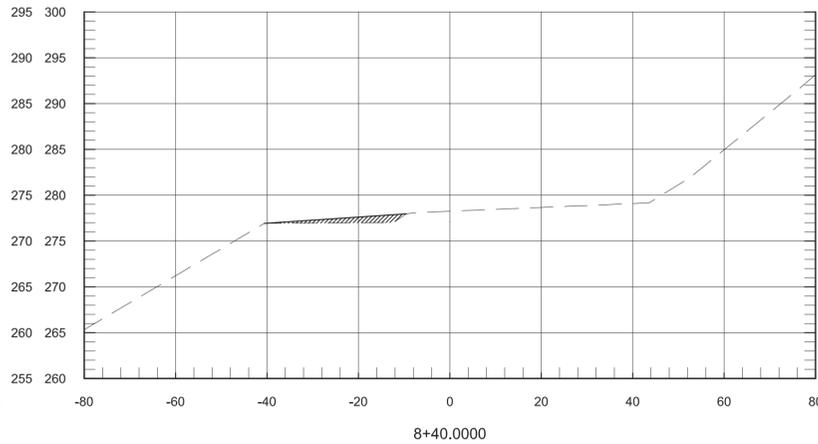
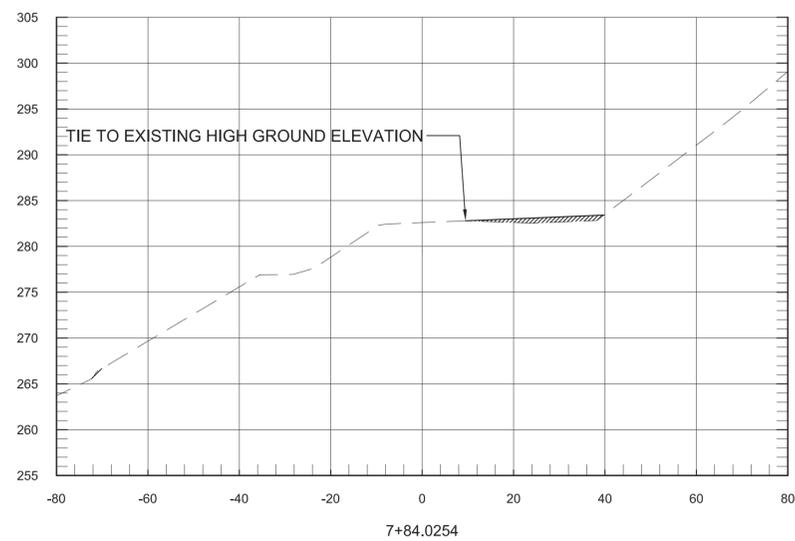
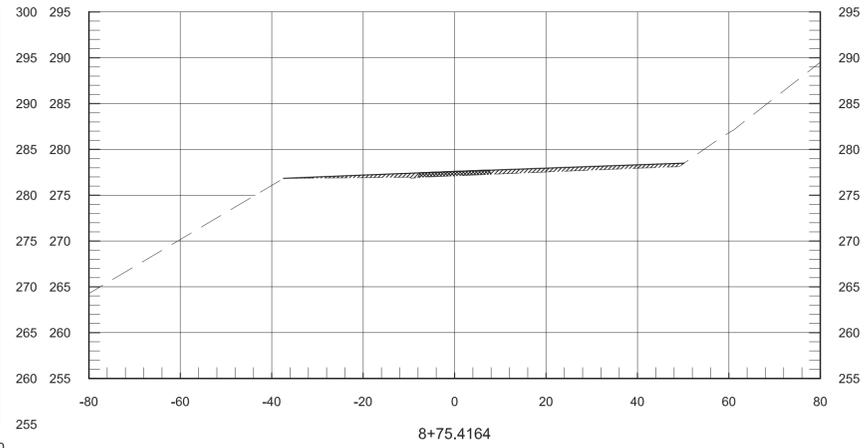
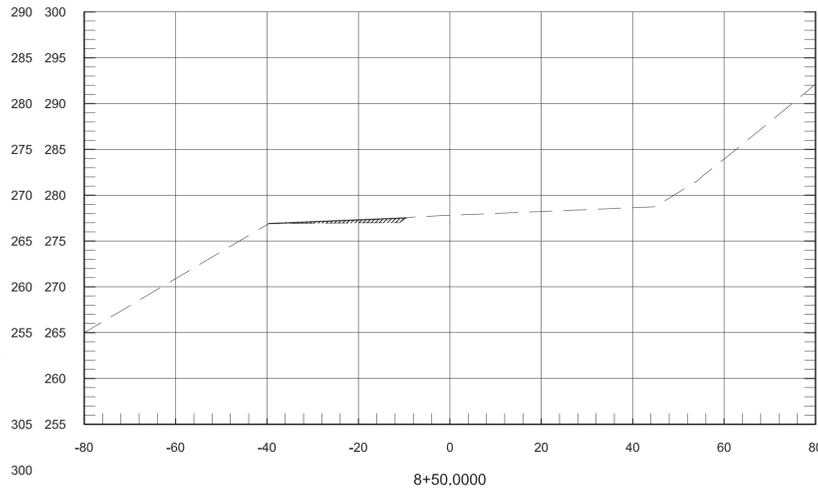
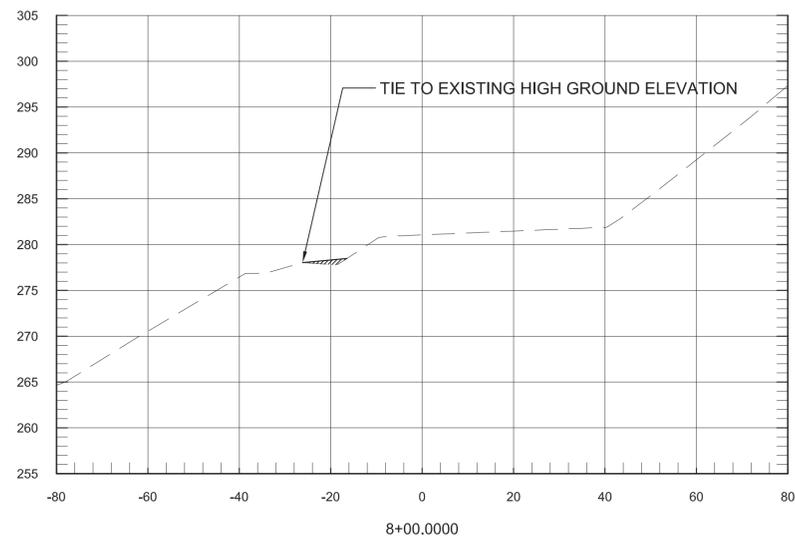
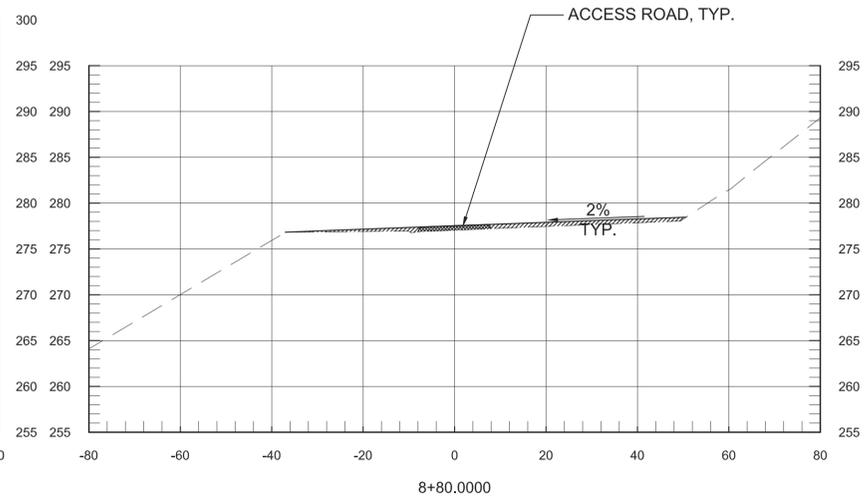
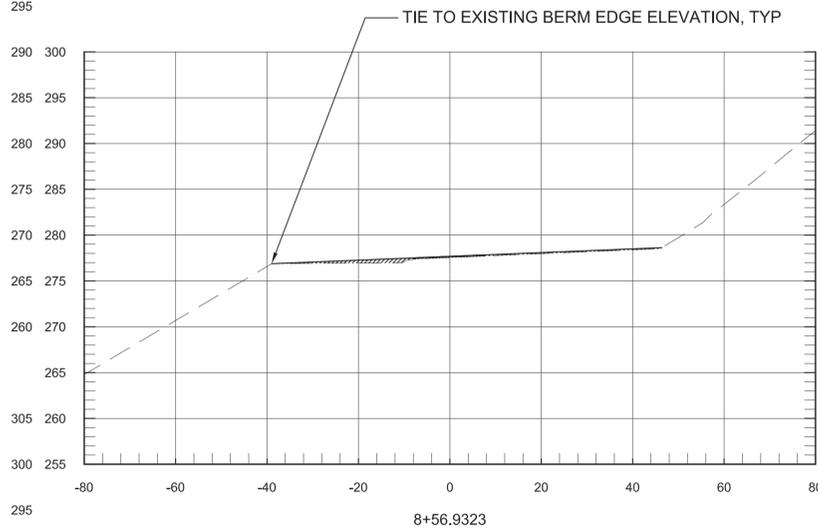
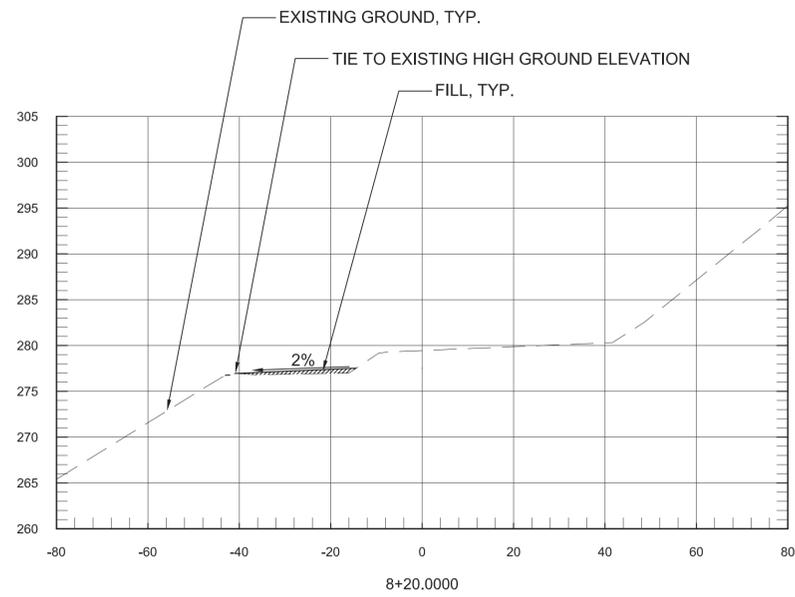
SHEET ID  
C305

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MARK	DESCRIPTION	DATE

DESIGNED BY: S. STELLO	ISSUE DATE:
DRAWN BY: S. STELLO	TBD
CHECKED BY: T. KNIGHT	SOLUTION NO.:
SUBMITTED BY: T. MURPHY	CONTRACT NO.:
FILE NAME: IslandCreek_C302_311_cross_sections.dwg	DRAWING CODE: JK 103-07-38
SIZE: 22"x34"	

U.S. ARMY CORPS OF ENGINEERS  
69 DARLINGTON AVENUE  
WILMINGTON, NORTH CAROLINA 28403

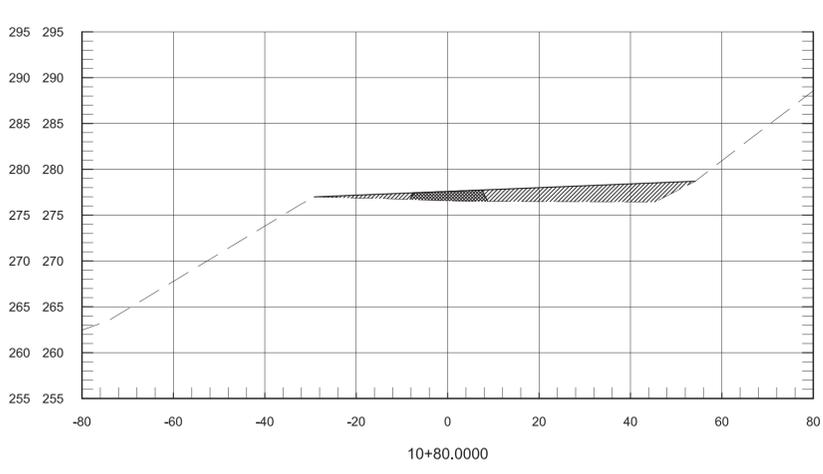
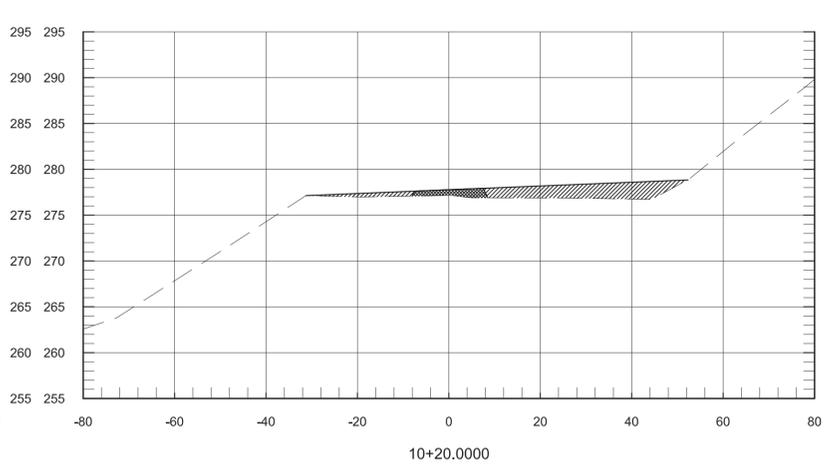
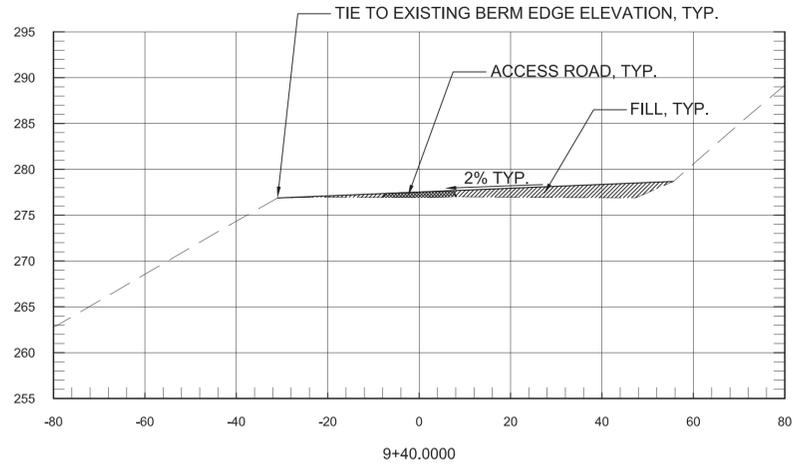
ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA  
ACCESS ROADS CROSS SECTIONS  
STA. 7+84.03 TO STA. 8+80

SHEET ID  
C308

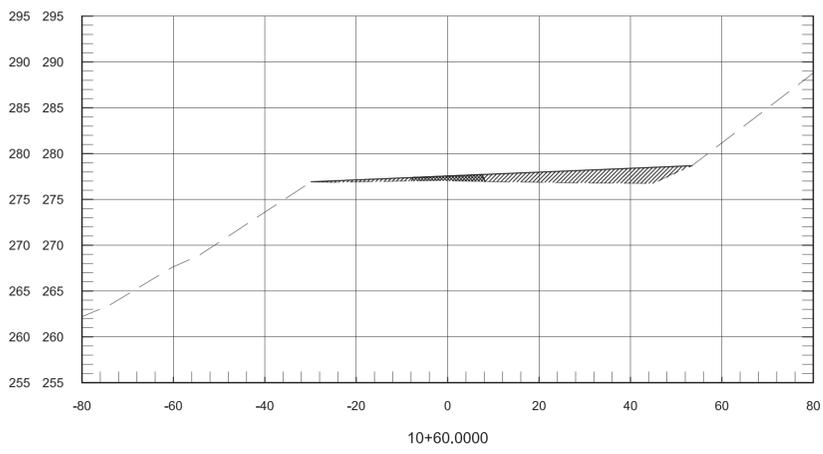
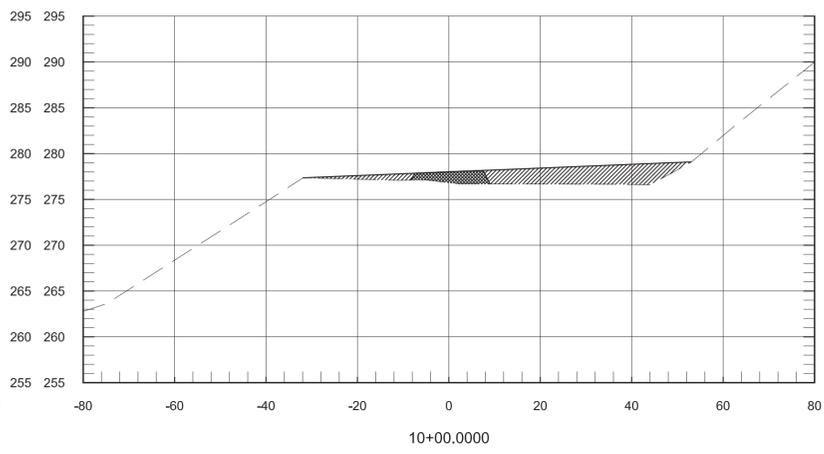
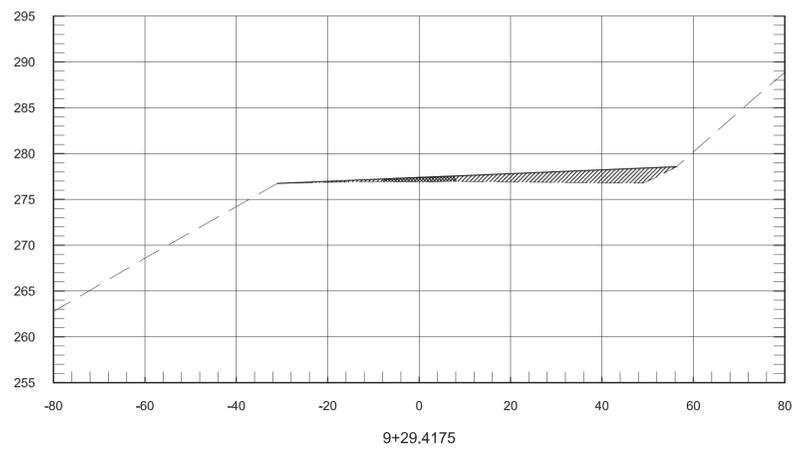
- NOTES:  
1. NEW AND EXISTING RIPRAP IS NOT SHOWN FOR CLARITY. SEE SHEETS C101 AND C102 FOR RIPRAP LIMITS.

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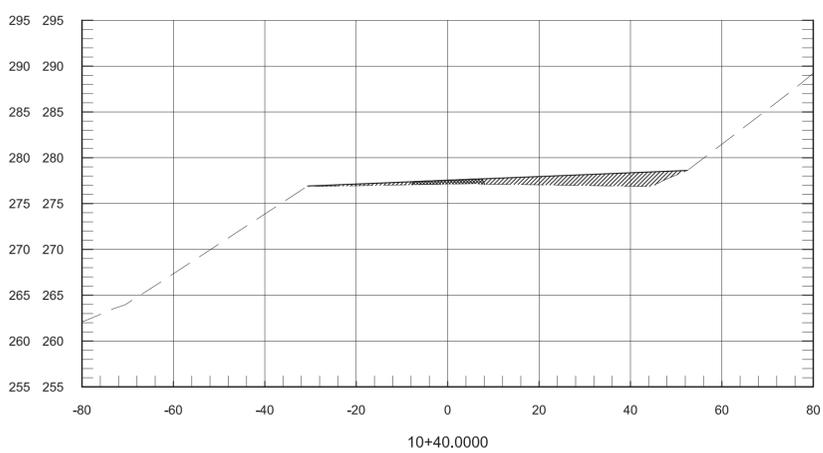
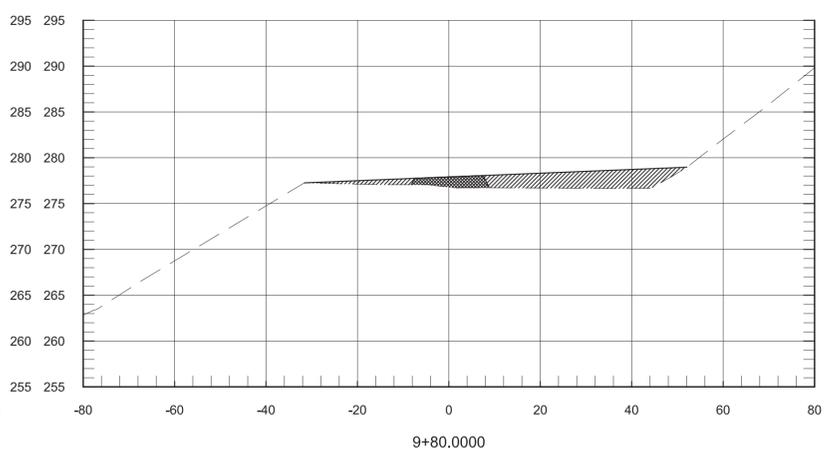
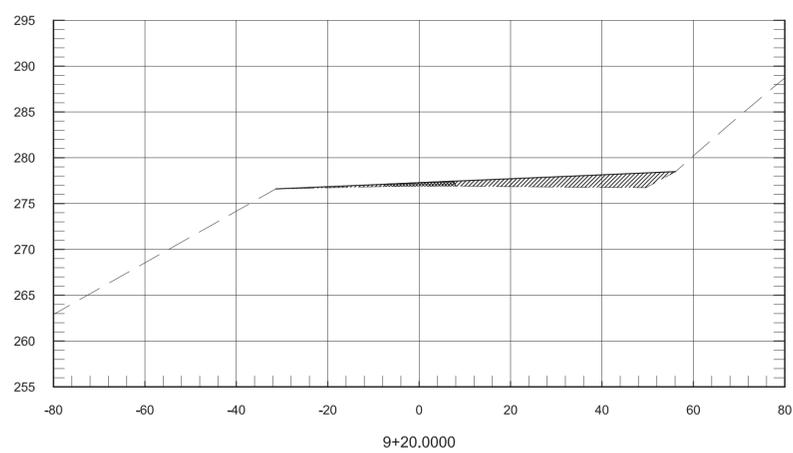
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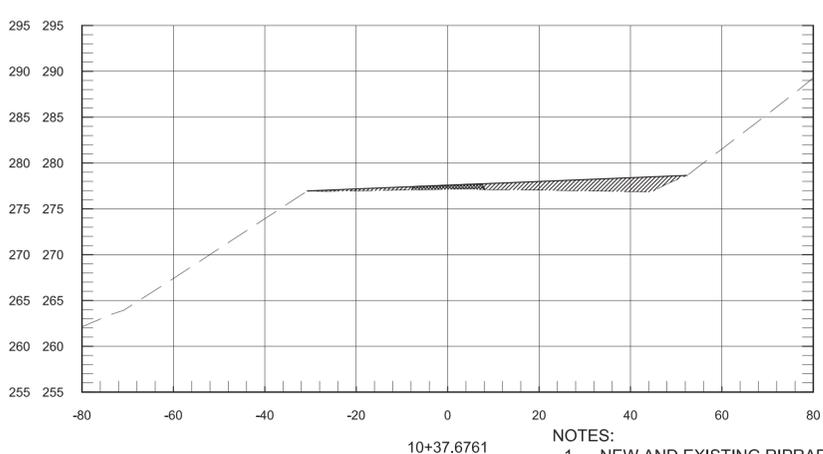
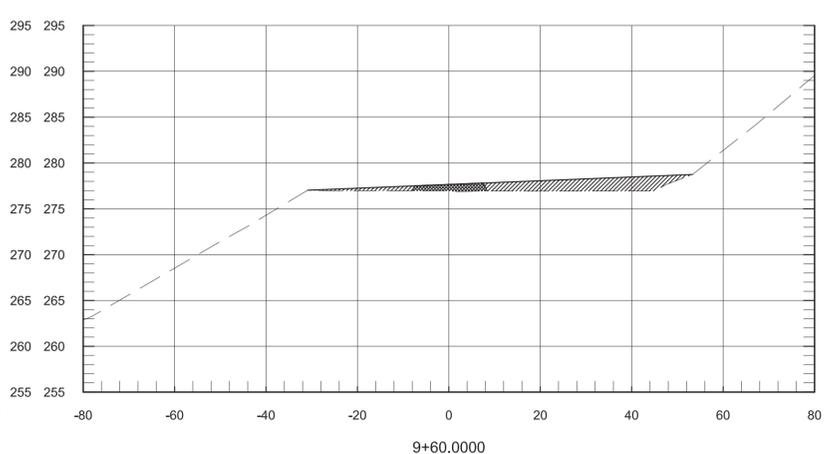
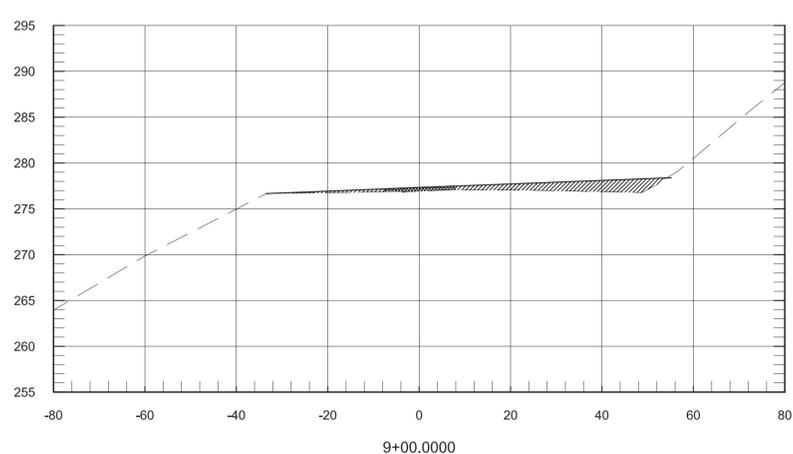
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MARK	DESCRIPTION	DATE

DESIGNED BY: S. STELLO	ISSUE DATE: TBD
DRAWN BY: S. STELLO	SOLICITATION NO.: W81ZPZ6B013
CHECKED BY: T. KNIGHT	CONTRACT NO.: TBD
SUBMITTED BY: T. MURPHY	DRAWING CODE: JK 103-07-38
FILE NAME: IslandCreek_C302_311_cross_sections.dwg	SIZE: 22"x34"

U.S. ARMY CORPS OF ENGINEERS  
69 DARLINGTON AVENUE  
WILMINGTON, NORTH CAROLINA 28403

ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA

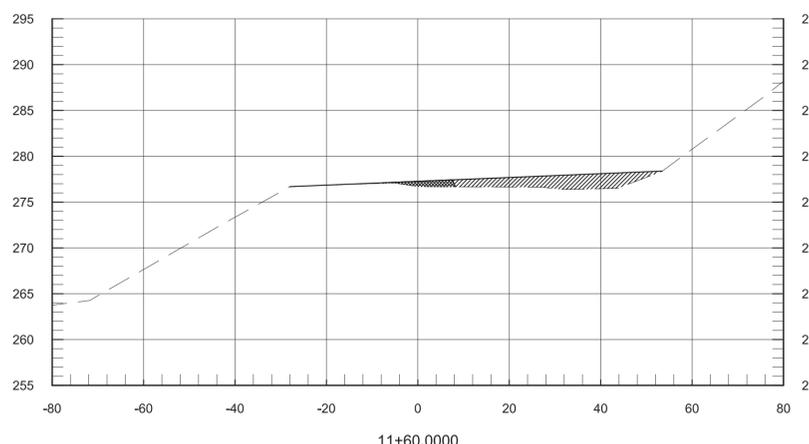
ACCESS ROADS CROSS SECTIONS  
STA. 9+00 TO STA. 10+80

SHEET ID  
**C309**

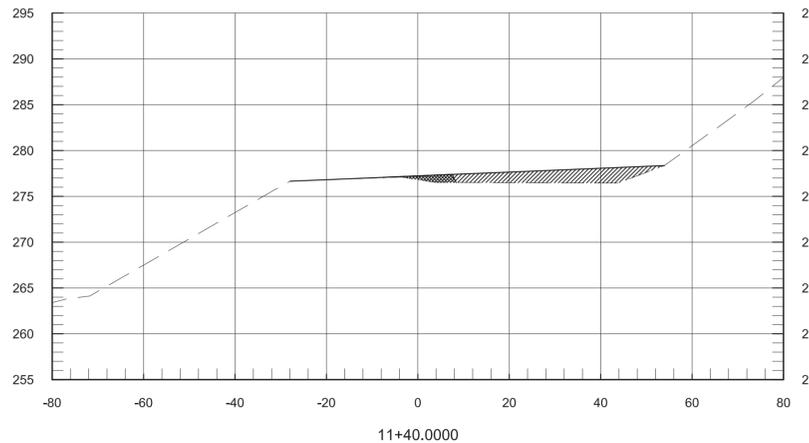
NOTES:  
1. NEW AND EXISTING RIPRAP IS NOT SHOWN FOR CLARITY. SEE SHEETS C101 AND C102 FOR RIPRAP LIMITS.

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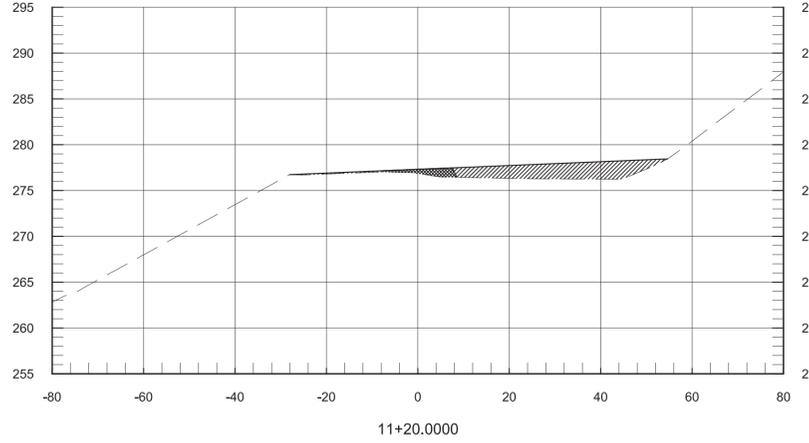
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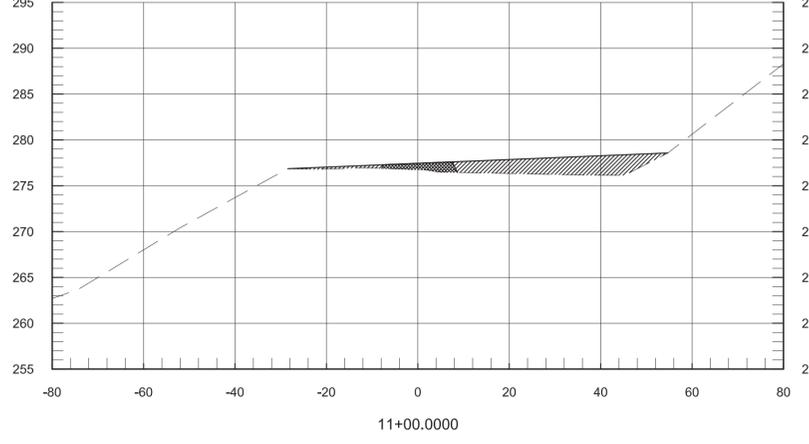
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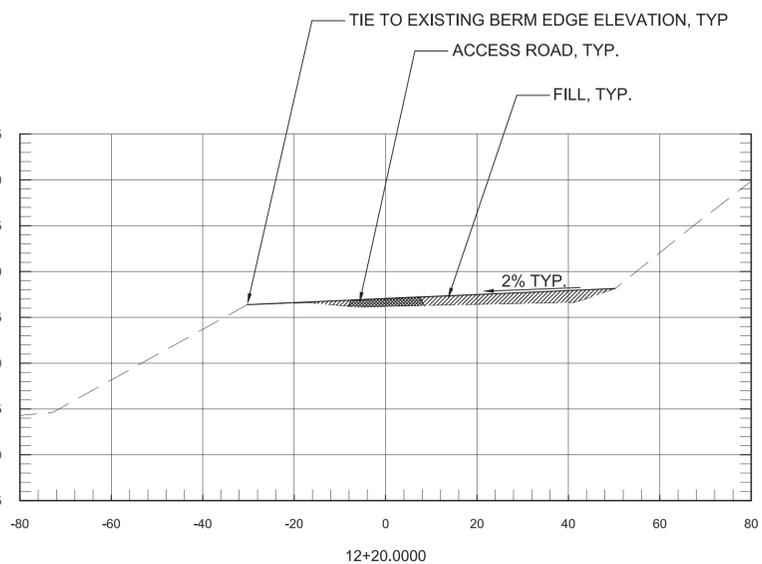
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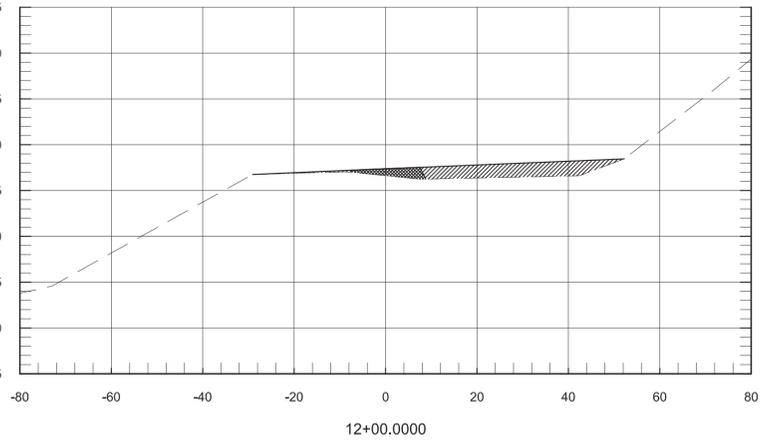
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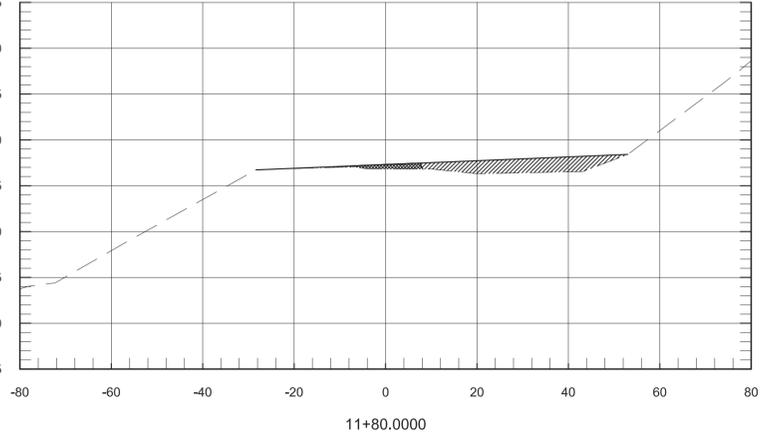
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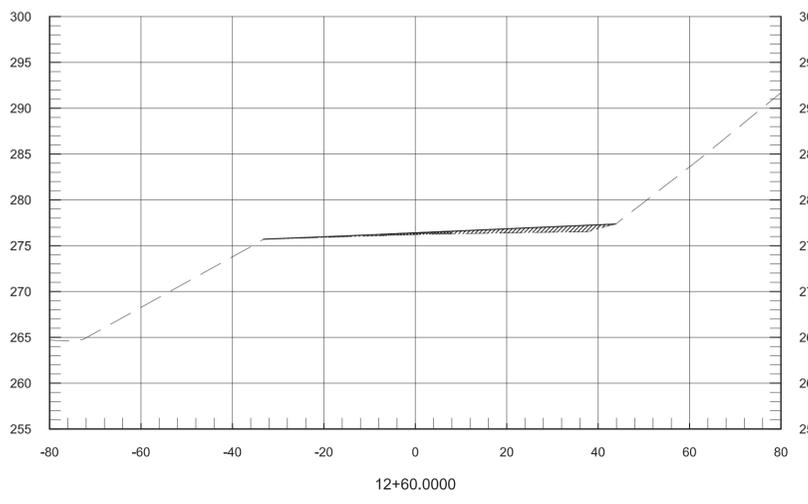
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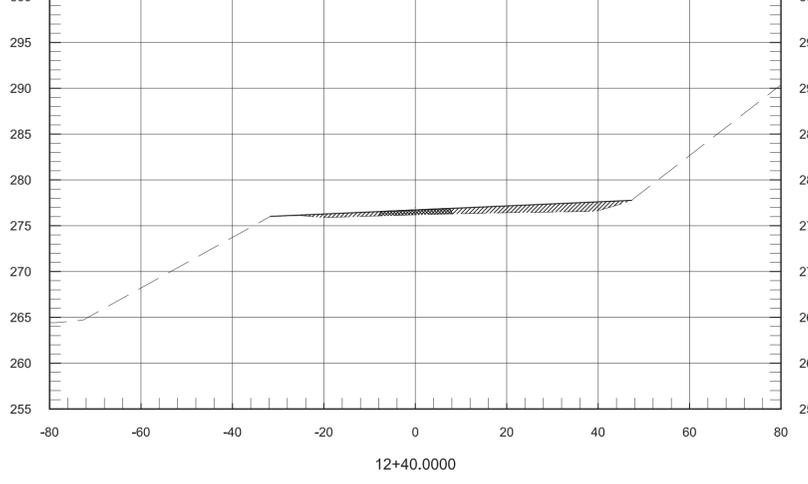
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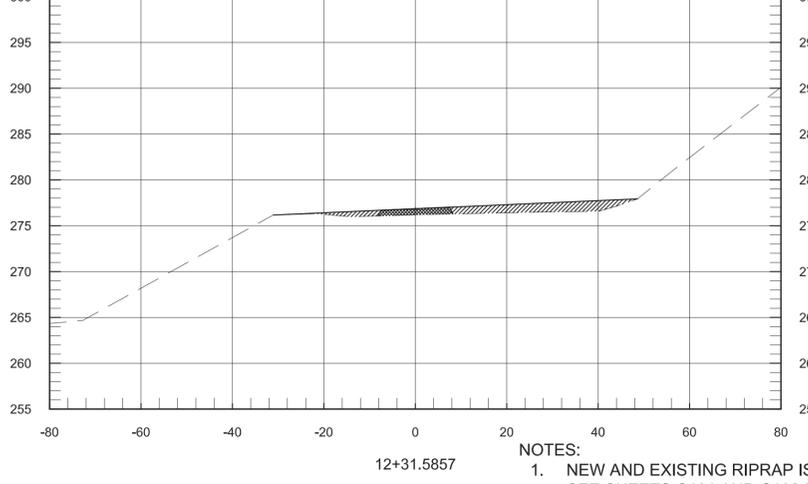
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12+60.0000



12+40.0000



12+31.5857

NOTES:  
1. NEW AND EXISTING RIPRAP IS NOT SHOWN FOR CLARITY. SEE SHEETS C101 AND C102 FOR RIPRAP LIMITS.



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DESIGNED BY: S. STELLO	ISSUE DATE: TBD
DRAWN BY: S. STELLO	SOLICITATION NO.: S15LZM58013
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SUBMITTED BY: T. MURPHY	DRAWING CODE: JK 103-07-38
FILE NAME: _C302_311_cross_sections.dwg	SIZE: 22"x34"

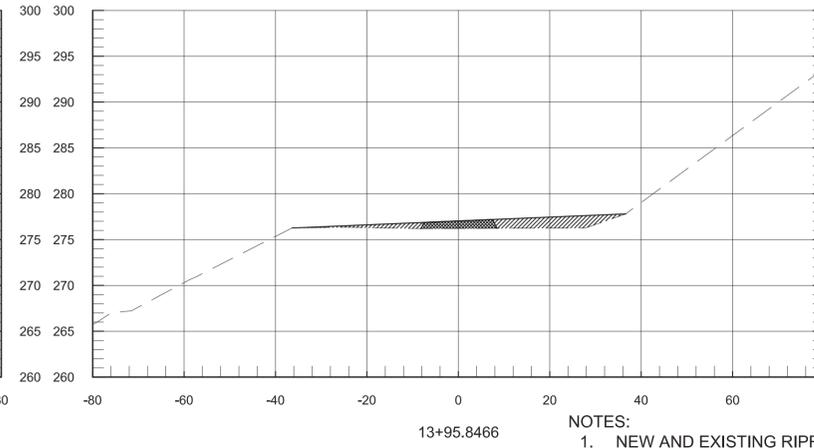
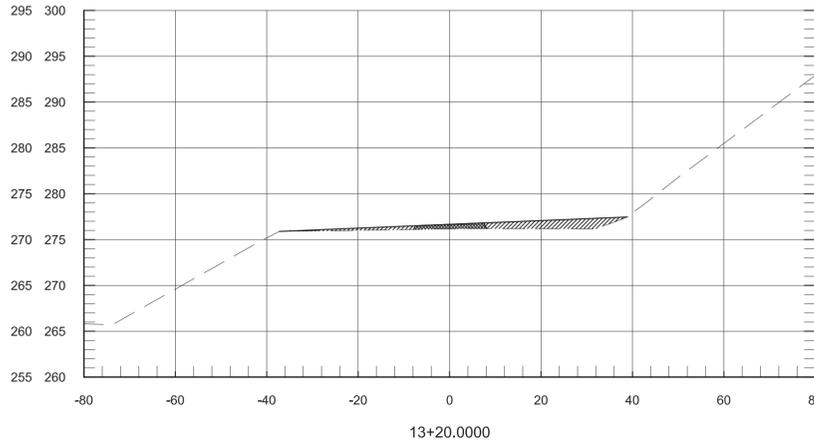
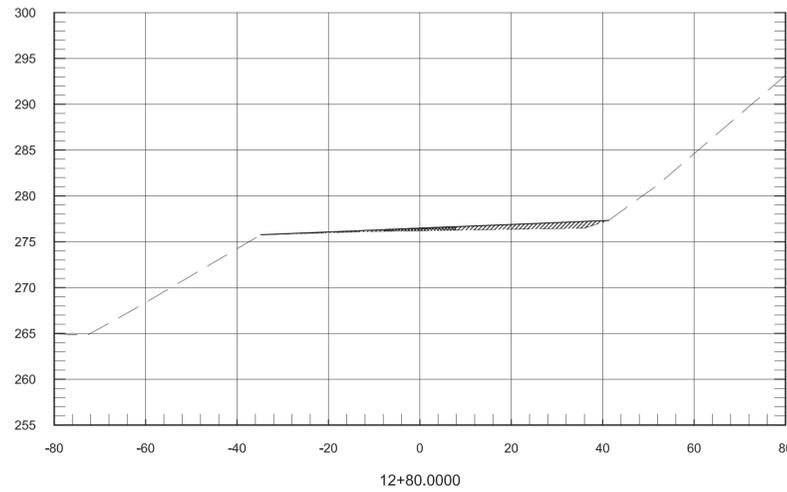
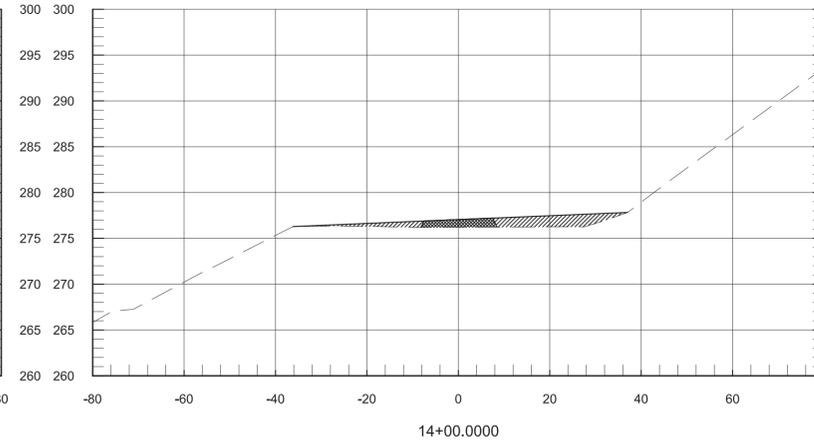
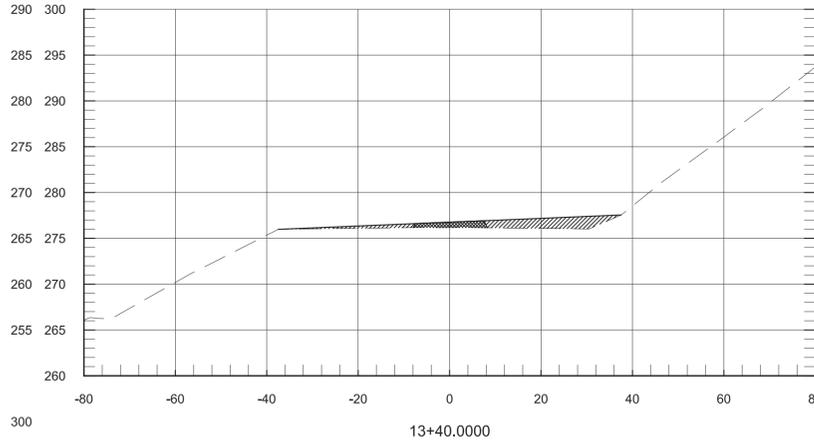
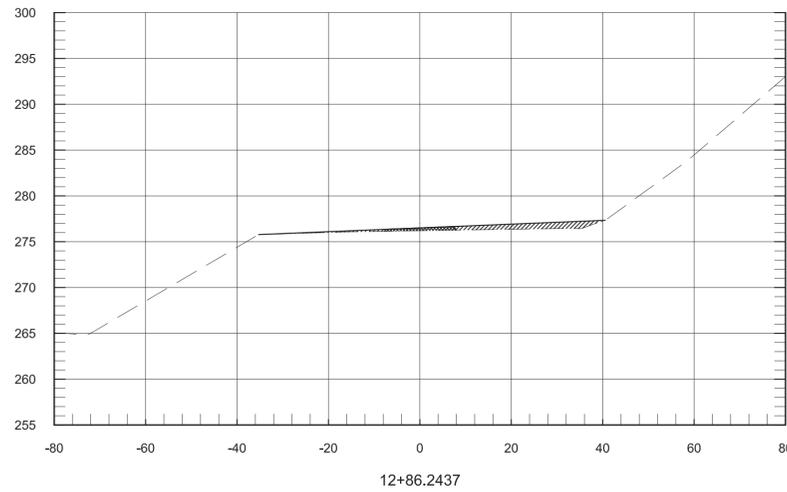
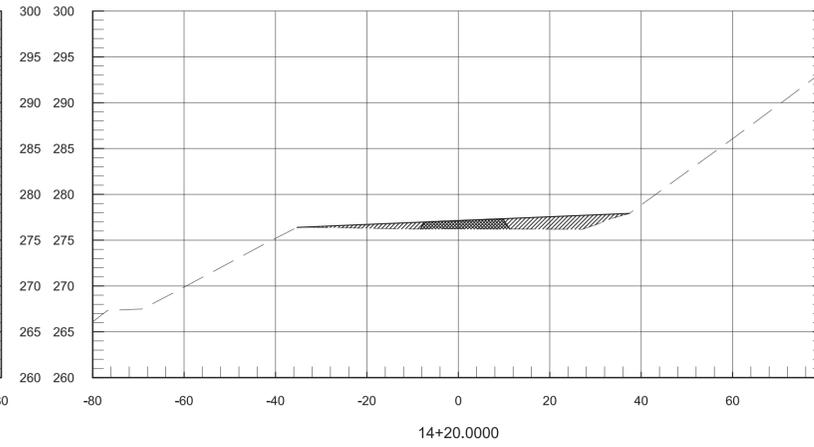
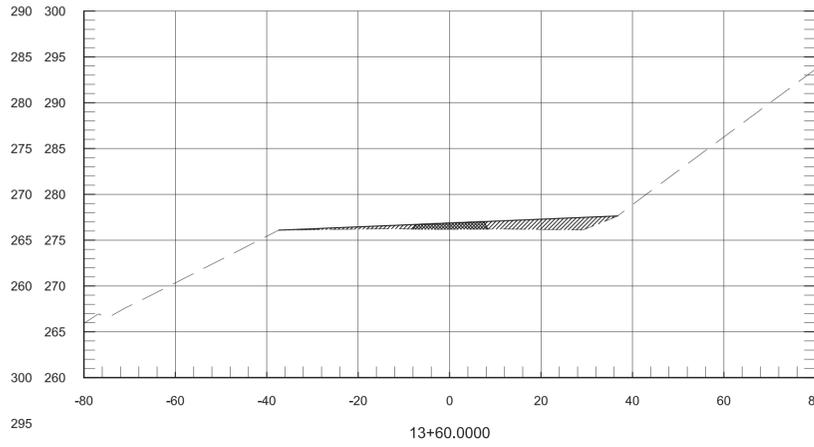
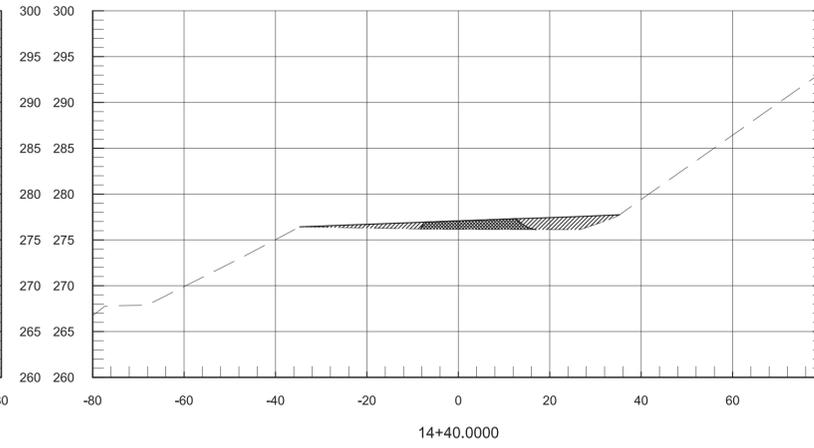
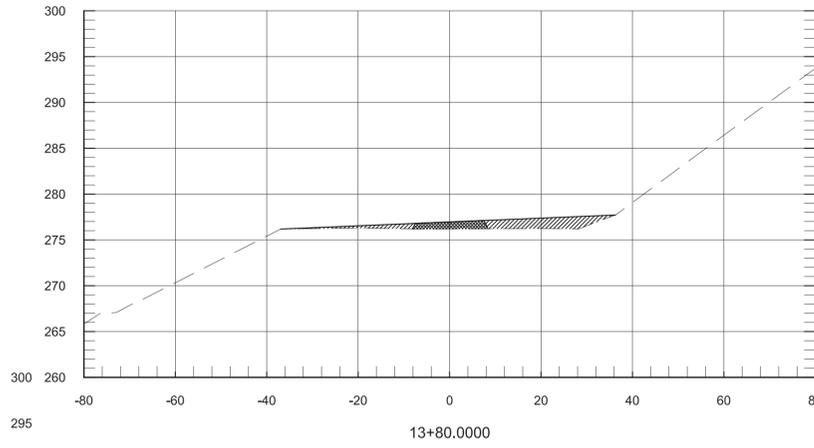
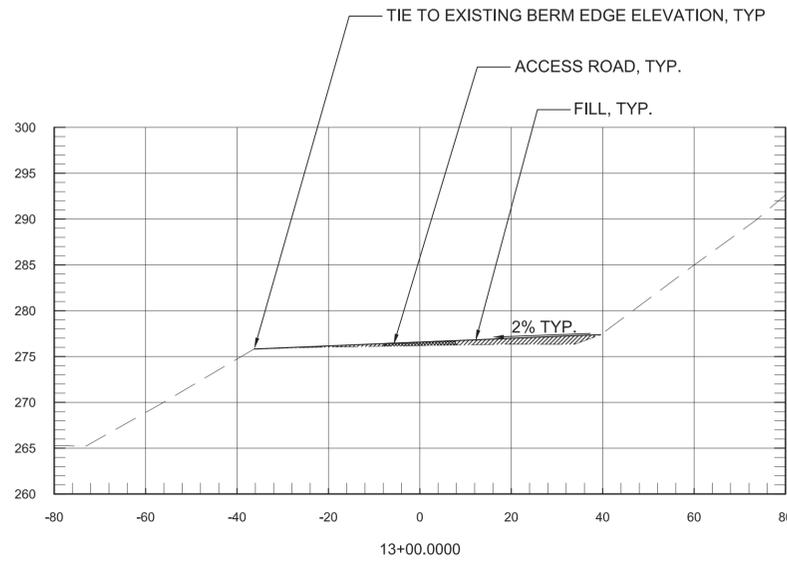
ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA

ACCESS ROADS CROSS SECTIONS  
STA. 11+00 TO STA. 12+60

SHEET ID  
**C310**

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MARK	DESCRIPTION	DATE

DESIGNED BY: S. STELLO	ISSUE DATE: TBD
DRAWN BY: S. STELLO	SOLICITATION NO.: W812ZMB0013
CHECKED BY: T. KNIGHT	CONTRACT NO.: TBD
SUBMITTED BY: T. MURPHY	DRAWING CODE: JK 103-07-38
FILE NAME: IslandCreek_C302_311_cross_sections.dwg	SIZE: 22"x34"

U.S. ARMY CORPS OF ENGINEERS  
69 DARLINGTON AVENUE  
WILMINGTON, NORTH CAROLINA 28403

ISLAND CREEK SEEPAGE BERM REPAIR,  
MECKLENBURG COUNTY,  
VIRGINIA  
ACCESS ROADS CROSS SECTIONS  
STA. 12+80 TO STA. 14+40

SHEET ID  
**C311**

NOTES:  
1. NEW AND EXISTING RIPRAP IS NOT SHOWN FOR CLARITY. SEE SHEETS C101 AND C102 FOR RIPRAP LIMITS.

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