# Addendum #1

Date: October 15, 2026

To: All Project Bidders and Holders of Project

Subject: Addendum #1
H&P Project # 20250492
Route 130 & 210 Water Line
Amherst County, VA

All contractors, subcontractors, suppliers, and vendors submitting Proposals on or related to this project shall incorporate in their proposals all items as described herein, and further, shall acknowledge on the Bid Proposal Form, the receipt of this Addendum.

**Item One: Pre-bid Meeting Minutes**

1. The pre-bid meeting minutes and attendance list are attached to this addendum.

**Item Two: Revised Bid Form**

2. The revised bid form has been updated and attached to this addendum.
    a. Line item A12, Silt Fence
    b. Line item A13, Blanket Matting
    c. Line item A14, Rock Excavation
    d. Line item B7, Silt Fence
    e. Line item B8, Rock Excavation
3. An alternate line item (A17) has been added to Contract A along with the alternate total due to the possibility of the price difference of materials.
4. There are also two places for the Contractor to include a total price that includes cost savings for being awarded both projects for each combination (Contract A Base Bid & Contract B) and the other (Contract A Alternate & Contract B).

**Item Three: Updated Plan Sheets**

5. Silt fence and blanket matting have been added to plan sheets on the Route 130 plan set (see attached).
6. DEQ detail for blanket matting added to sheet G-004 in the Route 130 plan set (see attached).
7. Silt fence has been added to plan sheets on the Route 210 plan set (see attached).
8. DEQ detail for silt fence added to sheet G-004 in the Route 210 plan set (see attached).

**Item Four: Permits Required**

9. Contractor will be responsible for obtaining the VDOT Land Use permit.

# Addendum #1

**Item Five: Stakeout & Materials Testing**

10. Contractor can use whomever for these services, but Hurt & Proffitt can also provide these services. Construction Stakeout, Donnie Scrivener 434-665-9547 dscrivener@handp.com; Materials Testing, Ken Meritt 434-841-1857 kmeritt@handp.com

**Item Six: Federal Requirements**

11. After further discussion with the Owner, a decision will be made on whether or not this project will require certified payroll, wage determination, etc. The Owner indicated that a future addendum will be released prior to the bid opening stating the official decision on how this project will be funded.

**Item Seven: Clearing**

12. Contractor will be responsible for hauling away any cleared materials within the ROW or easement areas.

**Item Eight: Valve Location on Route 210**

13. Owner has provided the intersection details for both ends of the Route 210 project for existing valve locations (see attached).

**End of Addendum 1**

# Route 130 & 210 Water Line
**Amherst County, VA**
**Pre-Bid Conference Minutes**
October 13, 2026 10:00 am

1. **Welcome and Introductions**
   - **Project Personnel**
     - Chad Hodges, PE – Hurt and Proffitt, Inc. Project Manager
     - Tim Castillo – ACSA Executive Director
     - Richard Hall – ACSA Assistant Director
   - **Attendance List**
     This is an optional pre-bid meeting. Please complete the sign-in sheet. The list will be provided with Addendum 1.
   - **Minutes**
     Pre-bid minutes will be part of Addendum #1 and distributed to those on sign-in sheet. Any addenda will also be posted on the eVA site, ACSA website, and the H&P website.
   - **Meeting Location**
     ACSA office, 113 Phelps Road, Madison Heights, Virginia, 24572

2. **Scope of Work**
   - The work to be performed hereunder shall include the furnishing of all labor, materials, tools, transportation, supplies, equipment and appurtenances necessary for the complete and satisfactory replacement/rehabilitation of public utilities for the Amherst County Service Authority as described in the plans. This project consists of the construction of approximately 2,800 LF of 12" water line along Route 130 for Contract A and approximately 940 LF of 12" water line along Route 210 for Contract B. The work includes installing the water lines and other appurtenances along with all associated erosion control measures as shown on the plans and in the technical specifications.

3. **Schedule:**
   - Project was advertised on Monday, September 28, 2026.
   - Optional prebid held on October 13, 2026.
   - Meeting minutes will be provided as part of Addendum #1.
   - All questions must be submitted in writing or email no later than Friday, November 13, 2026 by 5:00 pm. This will allow the Engineer time to prepare responses to the questions and issue appropriate addenda by 5 pm on Monday, November 16, 2026. Only questions submitted in writing (letter or email) will be considered and addressed in any addenda.
   - A Bid Bond equal to 5% of the bid is required with all bids.
   - All Bids shall be submitted to the ACSA office. Sealed bids can be submitted electronically through eVA.
   - **Bid submittal is on Thursday, November 19, 2026 at 2:00 pm**. Bids to be submitted to:

     Amherst County Service Authority
     113 Phelps Road
     Madison Heights, Virginia, 245722
     Attn. Tim Castillo, Executive Director

- It is the responsibility of the Bidder to ensure that ACSA receives the submittal by the proposal due date and time. No submittals or modifications to submittals will be accepted after the proposal due date and time.
- Bids will be opened publicly at the same time and place. Results will be tabulated and provided to bidders.
- Notice of Award is expected to be given shortly after Tuesday, December 1, 2026.
- Issuance of the Notice to Proceed is expected to be given on March 2027.
- Bidder agrees that the work will be **substantially complete within 180 days** of issue of Notice to Proceed. **Final completion will be 35 calendar days** after substantial completion.

4. **Construction stakeout, materials testing, and inspection:**
   - Construction stakeout and asbuilts are to be provided by the Contractor.
   - Compaction testing is to be provided by the contractor and results submitted to Engineer.
   - Hurt & Proffitt will be providing construction administration for the project.

5. **Existing Utilities:**
   - The Contractor shall locate all existing utilities before starting work.
   - The Contractor must contact the Owner before connecting to any utility.

6. **Work:**
   - The work to be performed hereunder shall include the furnishing of all labor, materials, tools, transportation, supplies, equipment and appurtenances necessary for the complete and satisfactory replacement/rehabilitation of public utilities for the Amherst County Service Authority as described in the plans. This project consists of the construction of approximately 2,800 LF of 12" water line along Route 130 for Contract A and approximately 940 LF of 12" water line along Route 210 for Contract B. The work includes installing the water lines and other appurtenances along with all associated erosion control measures as shown on the plans and in the technical specifications.

   - Contractor to be aware of the evaluation of bids "Instructions to Bidders" Section 18.05 G **Owner has the option to select the low Contract A and low Contract B from different bidders if the total is in the Service Authority's financial interest.**

7. **Staging area:**
   - The Contractor shall coordinate the locations of staging and storage.
   - Any private property used for staging is to be arranged between the Contractor and individual property owner.

8. **Erosion and sediment control:**
   - All erosion control measures shall be installed before any work starts.
   - E&S measures shall be installed and maintained in accordance with the Virginia Erosion and Sediment Control Manual.

9. **Property**
   - The water line shall be installed within VDOT ROW and easements on private properties.

**10. Restoration**

- Restoration shall be as good or better condition as original.

**11. Reporting Requirements:**

- MBE Requirements
  - All appropriate contract inserts pertaining to MBE/WBE must be completed as part of the bid documents.
  - Each bidder is expected to make a good faith effort to solicit MBE/WBE firms.
  - A MBE/WBE checklist must be completed and included with each bid.
  - Contractor to provide good faith efforts, there are no number of contacts required.
- Davis Bacon and AIS requirements do apply.

**12. ACSA Comments**

- Contractor to continue the good working relationship with VDOT that ACSA has developed.

**Questions – General Questions/Discussion**

1. Will there be a rock quantity line item?
   a. Yes, we can add a line item for both projects.
2. Plans are missing silt fence and other E&S items. Will there be a breakdown of those items?
   a. We will add the missing items to the plans and add corresponding line items on the bid form.
3. Are there any permits that the contractor is responsible for?
   a. The Land Use permit will be the responsibility of the Contractor.
4. Can H&P provide materials testing , and stakeout? If so, can we get the contact information?
   a. Yes, H&P can provide these service and we will provide the contacting information.
5. Will these projects require certified payroll and the wage determinations, etc.?
   a. After further discussion with the Owner a decision will be made on this in a future Addendum.
6. Will cleared material need to be hauled away?
   a. All cleared materials are to be hauled away in both eh ROW and easements.
7. Looking for clarification on the existing valves on both end of Route 210.
   a. Owner will provide the details for each side of the Route 210 project.

| Name | Company | Email | Phone Number |
|---|---|---|---|
| Donnie Toney | Toney Construction | donnietcivs@gmail.com | 434-546-0545 |
| John Toney | TCi | jonntcivs@gmail.com | 434 546-0551 |
| Grant Hamilton | CLEARY CONSTRUCTION | estimating@clearyconst.com | 270.487.1284 |
| Kurt Mason | Haymes Brothers | kmason@haymesbrothers.com | 434-579-3281 |
| Michael Hall | LJ BAYS | mike@ljbays.com | 434-841-2741 |
| Gary Ruppert | Countryside Dobyns | gruppert@countrysidedobyns.com | 434 821 2774 |
| Dwayne Phillips | F L Showalter, Inc | DPhillips@FLShowalter.com | 434-660-0933 |
| Daniel W Dixon | F.L. Showalter, Inc | ddixon@flshowalter.com | 434 609 0434 |
| Tina Castillo | ACSA | tcastillo@acsava.com | 434-221-8757 |
| Richard Hall | ACSA | rhall@acsava.com | 434-609-5692 |
| Jarred Boone | Fortiline | jarred.boone@fortiline.com | 434-420-5233 |
| Chad Hodges | Hurt & Proffitt | chodges@handpcom | 434-522-5681 |

**DOCUMENT 00 41 00 - BID FORM**

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

## ARTICLE 1 – OWNER AND BIDDER

1.01 This Bid is submitted to:

**Amherst County Service Authority**
**Timothy Castillo, Executive Director**
**113 Phelps Road / PO Box 100**
**Madison Heights, VA 24572**

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

## ARTICLE 2 – ATTACHMENTS TO THIS BID

2.01 The following documents are submitted with and made a condition of this Bid:

A. Required Bid security;

B. List of Proposed Subcontractors;

C. List of Proposed Suppliers;

D. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;

E. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;

F. Required Bidder Qualification Statement with supporting data;

G. If Bid amount exceeds $10,000, signed Compliance Statement (RD 400-6). Refer to specific equal opportunity requirements set forth in the Supplementary Conditions of the Construction Contract (EJCDC C-800);

H. If Bid amount exceeds $25,000, signed Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions (AD-1048);

I. If Bid amount exceeds $100,000, signed RD Instruction 1940-Q Exhibit A-1, Certification for Contracts, Grants, and Loans.

## ARTICLE 3 – BASIS OF BID— UNIT PRICES

3.01 The undersigned Bidder, having carefully examined the Bid Documents and Addenda, all of which are incorporated by reference, agrees to furnish all labor, equipment and services, necessary to complete the construction of the Route 130 & Route 210 Water Line Improvements project with Plans and Specifications dated September 28, 2026 as prepared by Hurt and Proffitt, Inc., Lynchburg, VA, 24501 for the stipulated unit price sum of:

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**CONTRACT A – BASE BID: ROUTE 130 WATER LINE**

| ITEM | Description | Quantity | Units | Unit Cost | Cost |
|---|---|---|---|---|---|
| **Route 130 Water Line** | | | | | |
| A1 | 12” Pipe DI CL 50 | 2,800 | LF | | |
| A2 | 12” Gate Valve | 7 | EA | | |
| A3 | 8” Gate Valve | 1 | EA | | |
| A4 | Air Release | 3 | EA | | |
| A5 | Blow Off | 3 | EA | | |
| A6 | 24” Steel Casing | 82 | LF | | |
| A7 | Creek Crossing Abutment | 1 | LS | | |
| A8 | Asphalt Patching | 565 | SY | | |
| A9 | VDOT CG-6 | 100 | LF | | |
| **Other** | | | | | |
| A10 | Clearing & Grubbing | 1 | LS | | |
| A11 | Seeding & Restoration | 1 | LS | | |
| A12 | Silt Fence | 2,110 | LF | | |
| A13 | Blanket Matting | 285 | SY | | |
| A14 | Rock Excavation | 100 | CY | | |
| A15 | Traffic Control | 1 | LS | | |
| A16 | Mobilization (Max 5% of bid) | 1 | LS | | |
| | | | | | |
| | **Base Bid Total** | | | | $ |
| | | | | | |
| | **Contract A – Alternate Bid** | | | | |
| A17 | 12” Pipe C900 PVC | 2,800 | LF | | |
| | | | | | |
| | **Alternate Total (Base Bid – Item A1 + Item A17)** | | | | $ |

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**CONTRACT B - BASE BID: ROUTE 210 WATER LINE**

| ITEM | Description | Quantity | Units | Unit Cost | Cost |
|---|---|---|---|---|---|
| **Route 210 Water Line** | | | | | |
| B1 | 12" HDPE Pipe | 940 | LF | | |
| B2 | 12" Gate Valve | 1 | EA | | |
| B3 | 2" Tap (Existing Connection) | 1 | EA | | |
| B4 | Fire Hydrant Assembly | 1 | EA | | |
| **Other** | | | | | |
| B5 | Clearing & Grubbing | 1 | LS | | |
| B6 | Seeding & Restoration | 1 | LS | | |
| B7 | Silt Fence | 100 | LF | | |
| B8 | Rock Excavation | 100 | CY | | |
| B9 | Traffic Control | 1 | LS | | |
| B10 | Mobilization (Max 5% of bid) | 1 | LS | | |
| | | | | | |
| | **Base Bid Total** | | | | $ |

**TOTAL COST OF CONTRACT A BASE BID & CONTRACT B (INCLUDING COST SAVINGS) FOR BEING AWARDED BOTH PROJECTS: ROUTE 130 & 210 WATER LINE**

$_____

**TOTAL COST OF CONTRACT A (ALTERNATE) & CONTRACT B (INCLUDING COST SAVINGS) FOR BEING AWARDED BOTH PROJECTS: ROUTE 130 & 210 WATER LINE**

$_____

3.02 Bidder acknowledges that:

1. The Contractor is responsible for all labor, installation, site restoration and all other materials required to complete the project.
2. Bid Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit.

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**ARTICLE 4 – DELETED**

**ARTICLE 5 – DELETED**

**ARTICLE 6 – TIME OF COMPLETION**

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 DELETED.

6.03 DELETED.

6.04 Bidder accepts the provisions of the Agreement as to liquidated damages.

**ARTICLE 7 – BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA**

7.01 *Bid* Acceptance *Period*

A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

7.02 Instructions *to Bidders*

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

7.03 Receipt *of Addenda*

A. Bidder hereby acknowledges receipt of the following Addenda:

| Addendum Number | Addendum Date |
|---|---|
| | |
| | |
| | |

**ARTICLE 8 – BIDDER'S REPRESENTATIONS AND CERTIFICATIONS**

8.01 *Bidder's Representations*

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work, including all American Iron and Steel requirements.
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.

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5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.

6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.

7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.

8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents

8.02 *Bidder's* Certifications

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.

2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.

3. Bidder has not solicited or induced any individual or entity to refrain from bidding.

4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:

a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.

b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.

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c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.

d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

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**ARTICLE 9 – BID SUBMITTAL**

BIDDER hereby submits this Bid as set forth above:

Bidder:

_____

*(typed or printed name of organization)*

By: _____

*(individual's signature)*

Name: _____

*(typed or printed)*

Title: _____

*(typed or printed)*

Date: _____

*(typed or printed)*

*If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.*

Attest: _____

*(individual's signature)*

Name: _____

*(typed or printed)*

Title: _____

*(typed or printed)*

Date: _____

*(typed or printed)*

Address for giving notices:

_____

_____

Bidder's Contact:

Name: _____

*(typed or printed)*

Title: _____

*(typed or printed)*

Phone: _____

Email: _____

Address:

_____

_____

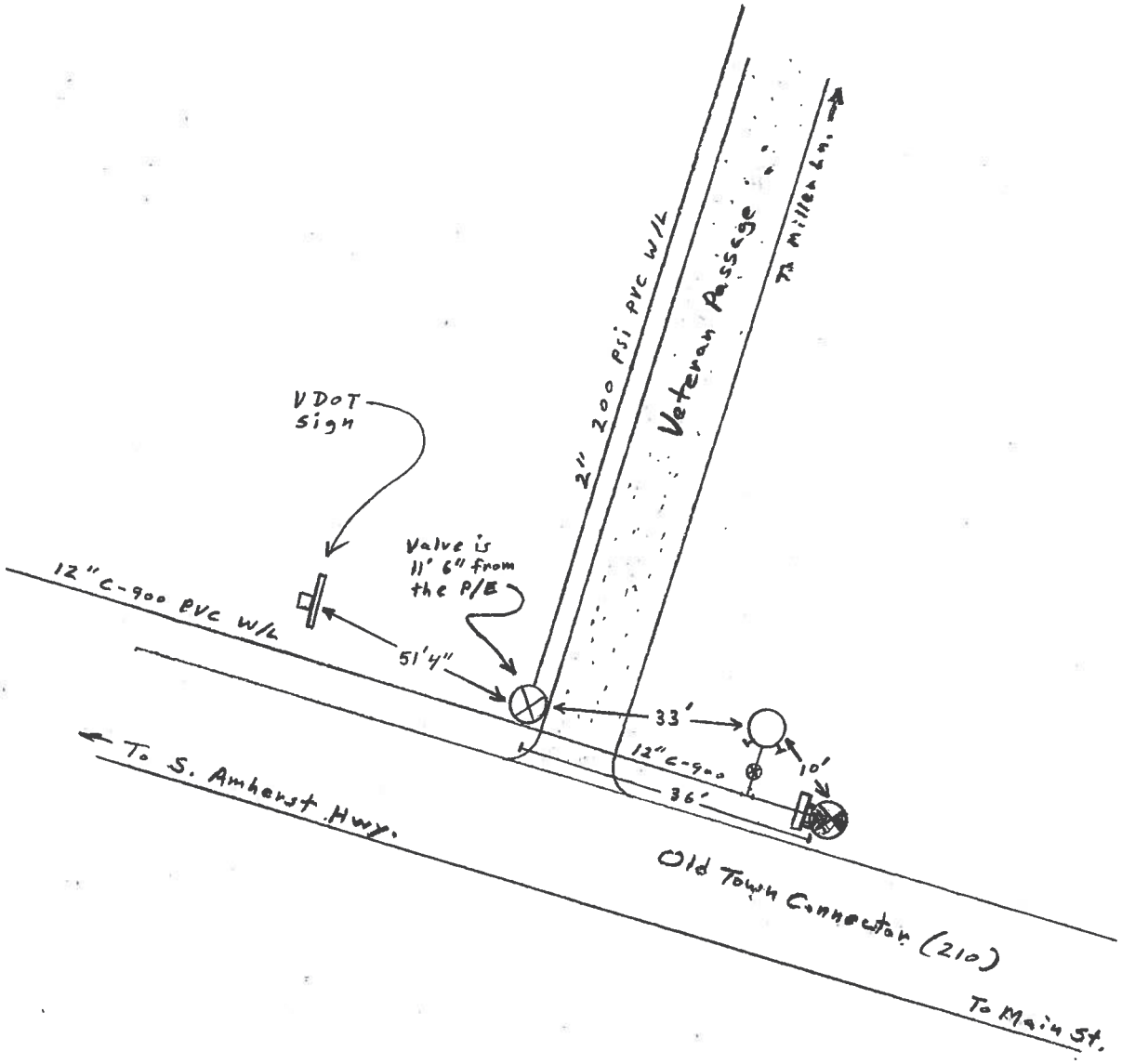
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Bidder's Contractor License No.: (if applicable) _____

END OF DOCUMENT 00 41 00 - BID FORM

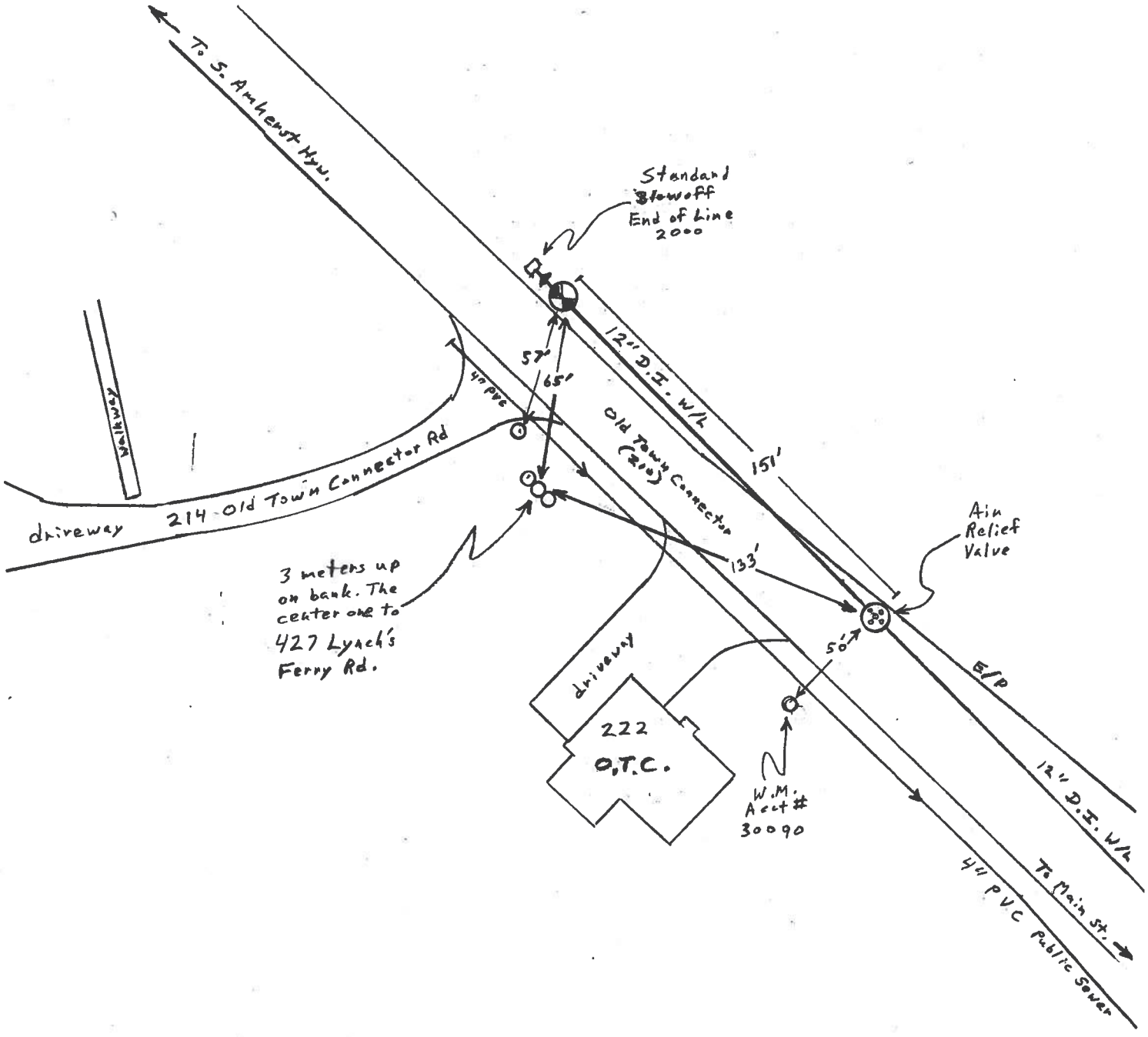
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Amherst County Service Authority
Valve Location Manual




Old Town Connector (210) &
Veteran Passage (private)
June 2007. DEF

Amherst County Service Authority
Valve Location Manual




Old Town Connecton, (Rt 210), West of Main St., End of line in 2000

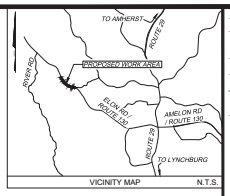
June 2007 DEF

# COVER SHEET

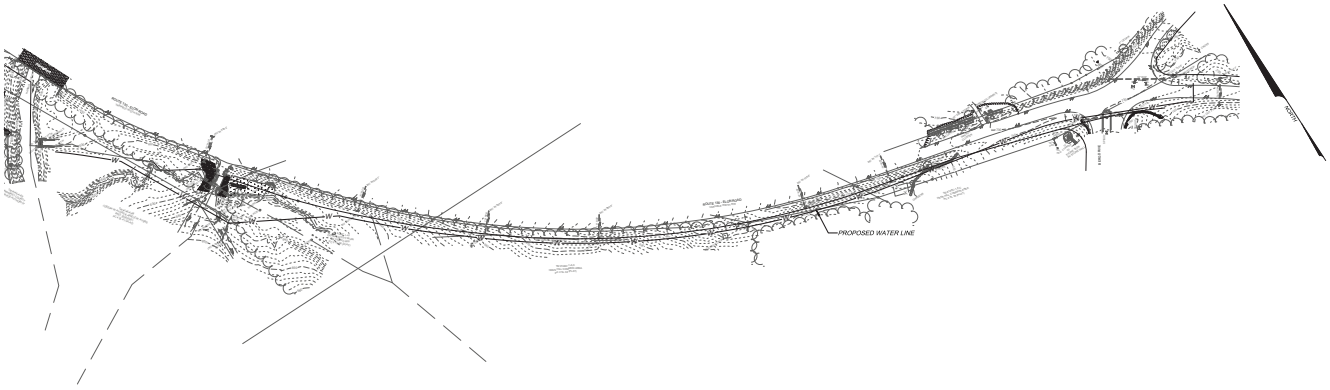
## FOR

## ROUTE 130 WATERLINE IMPROVEMENTS

## AMHERST COUNTY , VIRGINIA




VICINITY MAP N.T.S.




100 50 0 100 200

GRAPHIC SCALE IN FEET

*LEGEND*

- ELECTRIC POLE
- GUY WIRE
- TELEPHONE PEDESTAL
- CLEANOUT
- WATER METER
- WATER VALVE
- STORM MANHOLE
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CREEK
- BENCHMARK
- SIGN
- GUARDRAIL
- EDGE OF WOODS
- FENCE
- OH E — OVERHEAD ELECTRIC
- OH T — OVERHEAD TELEPHONE
- UG T — UG TELEPHONE LINE
- CONCRETE
- RIP RAP

*SHEET INDEX*


G-001 - COVER SHEET
G-002 - GENERAL NOTES
G-003 - EROSION & SEDIMENT CONTROL NOTES
G-004 - EROSION & SEDIMENT CONTROL DETAILS
C-100 - PLAN & PROFILE STA. START - 15+50
C-101 - PLAN & PROFILE STA. 15+50 - 22+50
C-102 - PLAN & PROFILE STA. 22+50 - 29+50
C-103 - PLAN & PROFILE STA. 29+50 - 37+56
C-104 - PLAN & PROFILE STA. 37+56 - END
C-501 - WATERLINE DETAILS
C-502 - TRAFFIC CONTROL DETAILS


*GENERAL NOTES*

1. OWNER: AMHERST COUNTY SERVICE AUTHORITY
   CONTACT: TIM CASTILLO
   ADDRESS: 113 PHELPS RD. / P.O. BOX 100
   MADISON HEIGHTS, VA 24572
   PHONE: 434-221-4757
2. SCOPE: INSTALLATION OF APPROXIMATELY 2,800 LF OF WATERLINE ALONG THE SOUTH SIDE OF ROUTE 130.
3. WATERLINE WILL BE INSTALLED WITHIN A PROPOSED UTILITY EASEMENT PRIMARILY PARALLELING THE VDOT RIGHT-OF-WAY ALONG THE SOUTH SIDE OF ROUTE 130.
4. TOTAL DISTURBED AREA: 1.28 AC. THIS IS A LINEAR PROJECT AND A VIRGINIA STORMWATER PERMIT WILL NOT BE REQUIRED.

*VDOT NOTES:*

1. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH VDOT PARTICIPATION PRIOR TO PERMIT ISSUANCE.
2. **A VDOT PERMIT IS REQUIRED PRIOR TO BEGINNING WORK WITHIN THE RIGHT-OF-WAY**

ACCEPTABLE TO VDOT
VDOT REPRESENTATIVE _____ DATE: _____

VDOT'S REVIEW IS NOT INTENDED TO BE EITHER COMPLETE OR COMPREHENSIVE AS IT IS THE RESPONSIBILITY OF THE SUBMITTING ENGINEER/SURVEYOR THAT SIGNS AND SEALS THESE PLANS TO ENSURE THE COMPLETENESS AND ACCURACY OF THEIR PLANS IN ACCORDANCE WITH GOVERNING LAWS, REGULATIONS, SPECIFICATIONS AND STANDARDS. PLAN ERRORS AND OR OMISSIONS DISCOVERED DURING CONSTRUCTION REMAIN THE RESPONSIBILITY OF THE SUBMITTING ENGINEER/SURVEYOR.

*APPROVAL OF THIS SITE PLAN, AS INDICATED BY THE FOLLOWING SIGNATURES, DOES NOT RELIEVE THE APPLICANT FROM RESPONSIBILITY FOR COMPLYING WITH AMHERST COUNTY, AND AMHERST COUNTY SERVICE AUTHORITY REGULATIONS.*

*AMHERST COUNTY EROSION AND SEDIMENT CONTROL ADMINISTRATOR*

NAME: _____ DATE: _____

*AMHERST COUNTY SERVICE AUTHORITY*

NAME: _____ DATE: _____

THE ENGINEER AND/OR SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES AS SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT THAT MAY NOT BE SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO SEE IF ANY UTILITIES EXIST WITHIN THE AREA OF THE PROJECT BEFORE ANY CONSTRUCTION BEGINS. ANY COST INCURRED BY DAMAGING ANY UTILITY WITHIN THE PROJECT SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

48 WORKING HOURS PRIOR TO STARTING THE WORK, THE CONTRACTOR SHALL CALL MISS UTILITY AT PHONE NUMBER 811 AND ADVISE THE NATURE AND LOCATION OF THE WORK.

*VIRGINIA CERTIFIED RESPONSIBLE LAND DISTURBER*

NAME - PRINTED SIGNATURE DATE

PHONE # COMPANY

ADDRESS

| | | |
|---|---|---|
| 3 | 10/14/2026 | ADDENDUM No.1 |
| 2 | 08/26/2026 | COUNTY COMMENTS |
| 1 | 04/30/2026 | VDOT COMMENTS |


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SURVEYING - CONSTRUCTION STAKING & INSPECTION - CIVIL/SITE DESIGN


COVER SHEET
FOR
ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

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| PROJECT NO. | 20250492 |
| LAT. | 37.485008° |
| LONG. | -79.165542° |
| DATE: | 03/11/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

COMMONWEALTH OF VIRGINIA
W. CHRIS HODGES
LIC. NO. 060044
10/14/2026
PROFESSIONAL ENGINEER

APPROVED

HURT & PROFFITT

| SHEET NO. | REV. |
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| G-001 | ---- |


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DWG: 492 - 130w SHEETS\G-001 COVER SHEET.DWG

## GENERAL NOTES :

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED AND ALL BONDS OR FEES HAVE BEEN PAID. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. EXISTING SITE FEATURES AND UTILITIES SHOWN HAVE BEEN BASED UPON SURVEYS AND OTHER SOURCES BELIEVED TO BE RELIABLE. THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION BEFORE COMMENCING WORK.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 811 A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL MAINTAIN TRAFFIC PATTERNS AND SAFETY AT ALL TIMES ON SITE AND ON ADJACENT ROADWAYS.
5. NUMERICALLY WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE. NO SCALING OF DIMENSIONS TO BE ACCEPTED.
6. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
7. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE DRAWINGS AND SPECIFICATIONS AT THE SITE AT ALL TIMES DURING THE CONSTRUCTION.
8. ALL WORK PERFORMED AND MATERIALS SUPPLIED SHALL CONFORM TO THE PLANS AND/OR PROJECT SPECIFICATIONS. ANY WORK NOT COVERED IN THE PLANS OR SPECIFICATIONS SHALL CONFORM TO THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS AND AMHERST COUNTY SERVICE AUTHORITY (ACSA) STANDARDS AND SPECIFICATIONS. IN THE EVENT OF CONFLICT AMONG ANY OF THESE STANDARDS, SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL GOVERN.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES WHO MIGHT HAVE UTILITY LINES ON OR ABOUT THE PREMISES, OR WHO MIGHT BE AFFECTED BY CONSTRUCTION. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE APPROPRIATE UTILITY COMPANIES. NO COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE OR ACTIVITIES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES INCLUDING AIRBORNE DUST DURING CONSTRUCTION AND FOLLOWING CONSTRUCTION UNTIL SUCH TIME AS PROPER VEGETATION IS REESTABLISHED.
11. THE TOPOGRAPHICAL INFORMATION SHOWN HEREON WAS TAKEN FROM THE TOPOGRAPHIC SURVEY COMPLETED UNDER THE DIRECT RESPONSIBLE CHARGE OF J. ADAM BRYANT FROM AN ACTUAL GROUND SURVEY. THE FIELD DATA WAS OBTAINED ON MAY 14, 2025.
12. ALL CLEARED MATERIALS TO BE REMOVED FROM SITE AND DISPOSED OF LEGALLY AT THE CONTRACTOR'S EXPENSE.
13. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT ARE TO REMAIN IN PLACE. ANY DAMAGED UTILITY LINE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
14. ALL UNSUITABLE MATERIAL AND OTHER CONSTRUCTION DEBRIS SHALL BE HAULED OFF SITE AND DISPOSED OF LEGALLY.
15. PRIOR TO DISCONNECTION AND/ OR RELOCATION OF UTILITY SERVICES, CONTRACTOR TO CONTACT OWNERS REPRESENTATIVE TO COORDINATE SUCH ACTIVITIES WITH UTILITY COMPANIES.
16. CONTRACTOR SHALL COMPLY WITH ALL OSHA STANDARDS AND REGULATIONS FOR OPEN TRENCH EXCAVATIONS.
17. ALL EXCAVATION SHALL BE UNCLASSIFIED. CONTRACTOR RESPONSIBLE FOR EXCAVATING ALL MATERIALS INCLUDING ROCK.
18. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION, AMHERST COUNTY SERVICE AUTHORITY (ACSA), AND OTHER GOVERNING BODIES FOR PERMITS AND INSPECTIONS AS REQUIRED.
19. THE PROJECT AREA SHOWN HEREON IS LOCATED IN SPECIAL FLOOD HAZARD ZONE A FOR A 100 YEAR FLOOD.
20. CONSTRUCTION LIMITS SHALL INCLUDE ALL DISTURBED AREAS. ALL DISTURBED AREAS SHALL BE SEEDED AND PROVIDED WITH EROSION CONTROL DURING AND AT THE END OF CONSTRUCTION.
21. ALL SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH VDOT EC-2 EROSION CONTROL MATTING FROM TOP OF SLOPE TO TOE OF SLOPE. THE CONTRACTOR SHALL ENSURE THE PROPER INSTALLATION OF SUCH MEASURES IN ACCORDANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS AND THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.
22. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CONFINED SPACE ENTRY REGULATIONS.
23. MAINTAIN ALL OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, WATER, AND GAS SERVICES AND ALL OTHER UTILITIES DURING ENTIRE CONSTRUCTION PERIOD. UTILITY OUTAGES WILL NOT BE ALLOWED.
24. THE CONTRACTOR SHALL MAINTAIN SURFACE DRAINAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL PUMPS AND PIPING REQUIRED TO MAINTAIN SURFACE DRAINAGE.
25. THE CONTRACTOR SHALL BE FULLY LIABLE FOR REPAIR OF ANY DAMAGES ON PUBLIC OR PRIVATE PROPERTY CAUSED BY HIS CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE ALL DISTURBED SURFACES IN KIND, INCLUDING PAVEMENT, STONE, DITCHES, MAILBOXES, STORM CULVERTS, FENCING, ETC. AT NO ADDITIONAL COST TO THE OWNER.
26. ALL EXISTING SIGNS, CURBS, GUARDRAIL FENCING, STONE, STRUCTURES, LANDSCAPING, PLANTERS, SHRUBS, AND OTHER PHYSICAL IMPROVEMENTS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE REPLACED TO ORIGINAL CONDITION, OR TO THE PROPERTY OWNER AND TO THE SATISFACTION OF THE OWNER AND PROPERTY OWNER.
27. ALL PROPERTY PINS OR VDOT MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA AT THE CONTRACTOR'S EXPENSE.
28. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM PROPERTY OWNERS FOR USE OF ANY ACCESS POINTS OTHER THAN THOSE LOCATED WITHIN RIGHT-OF-WAYS AND OBTAINED EASEMENTS. WRITTEN PERMISSION SHALL CONTAIN CONDITIONS FOR USE AND RESTORATION AGREEMENTS BETWEEN PROPERTY OWNER AND CONTRACTOR. COPIES OF WRITTEN PERMISSION SHALL BE PROVIDED TO OWNER PRIOR TO USING OTHER ACCESS POINTS.
29. TREES AND SHRUBS TO REMAIN IN PLACE SHALL BE ROPED OFF DURING GRADING OPERATIONS TO KEEP EQUIPMENT AWAY FROM ROOT SYSTEMS. THE CONTRACTOR SHALL MAKE SELECT CUTTING OF TREES, TAKING THE SMALLEST TREES FIRST, THAT ARE MANDATORY FOR WATER LINE CONSTRUCTION. TREES NOT REQUIRING REMOVAL FOR WATER LINE INSTALLATION SHALL BE PROTECTED AND REMAIN UNDISTURBED.
30. RESIDENCY POLICY FOR UTILITY CROSSING PRIVATE ENTRANCES IS TO REQUIRE THE UTILITY TO BE BORED UNDER THE ENTRANCES UNLESS THE PROPERTY OWNER AGREES IN WRITING TO ALLOW IT TO BE OPEN CUT.
31. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR EROSION/SEDIMENT CAUSED BY THE TESTING OF THE WATER LINE SUCH AS FLUSHING OF THE FIRE HYDRANTS. THE CONTRACTOR IS TO MAKE EVERY EFFORT TO MINIMIZE IMPACTS.
32. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH: THESE PLANS, THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, DATED 2020; THE VDOT ROAD AND BRIDGE STANDARDS, DATED 2016; THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0.
33. THE GRADE LINES DENOTE TOP OF FINISHED PAVEMENT UNLESS SHOWN OTHERWISE ON TYPICAL SECTIONS OR PLANS.
34. THAT PORTION OF THE RIGHT OF WAY LYING WITHIN THE CLEAR ZONE OR WITHIN A MINIMUM OF 10 FEET, FROM THE EDGE OF PAVEMENT OR SURFACING OR WITHIN THE LIMITS OF THE CONSTRUCTION SLOPES BEYOND 10 FEET, SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH THE APPLICABLE VDOT ROAD AND BRIDGE SPECIFICATIONS, SECTIONS 301, WHERE SUFFICIENT RIGHT OF WAY OR CONSTRUCTION EASEMENT IS PROVIDED.
35. WHERE STANDARD SLOPE ROUNDOFFS WOULD DAMAGE TREES, BUSHES OR OTHER DESIRABLE VEGETATION, THEY SHALL BE OMITTED WHEN SO ORDERED BY THE ENGINEER.

## WATERLINE NOTES:

1. ALL WATERLINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AMHERST COUNTY SERVICE AUTHORITY (ACSA) SPECIFICATIONS AND THESE PLANS AND SPECIFICATIONS.
2. WATER MAINS SHALL BE DI, CL 50 PIPE, UNLESS OTHERWISE NOTED.
3. USE SADDLES FOR ALL SERVICE TAPS ON THE WATER MAIN.
4. ALL SERVICE LINES, UNLESS OTHERWISE NOTED, ARE TO BE 3/4" COPPER PIPE. IF SERVICE LINE CROSSES ROAD, IT MUST BE IN A 2" CASING PIPE. MINIMUM PRESSURE RATING OF ALL PIPE TO BE 200 PSI.
5. FOR WATERLINES CROSSING UNDER A STORM OR SEWER PIPE, MAINTAIN MINIMUM 18" VERTICAL SEPARATION OF THE PIPES. ENSURE PROPER STRUCTURAL SUPPORT OF THE STORM OR SEWER PIPE TO PREVENT SETTLEMENT AND/OR DEFLECTION AND INSTALL THE WATERLINE SO THAT THE CROSSING IS AT THE MID-POINT OF A FULL LENGTH SECTION OF WATERLINE PIPE. MAINTAIN 10' OF HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER LINES, UNLESS OTHERWISE NOTED.
6. WHERE WATER LINE IS SHOWN DEFLECTING WITHOUT FITTINGS, THE CONTRACTOR IS TO FOLLOW THE PIPE MANUFACTURER'S RECOMMENDATIONS. IF THE DEFLECTION CANNOT BE MADE, THE CONTRACTOR IS TO CONTACT THE ENGINEER FOR ASSISTANCE IN DETERMINING APPROPRIATE FITTING.
7. ALL PIPE, FITTINGS, AND APPURTENANCES SHALL BE RESTRAINED AND ANCHORED IN ACCORDANCE WITH THE STANDARD DETAILS. THRUST RESTRAINTS ARE REQUIRED FOR ALL BENDS AND TEES. IF MECHANICAL JOINT RESTRAINT SYSTEMS ARE USED, INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS RELATED TO NUMBER OF JOINTS RESTRAINED.
8. WATERLINES SHALL HAVE A MINIMUM COVER OF 48 INCHES AND BE LAID DEEPER WHERE SHOWN ON THE PROFILES TO PROVIDE GRADES TO AIR RELEASES AND BLOW OFF VALVES; AND AS REQUIRED TO ALLOW FOR 18 INCHES OF SEPARATION BETWEEN PROPOSED WATER LINES AND EXISTING STORM OR SANITARY SEWER LINES (SEE NOTE 5).
9. GATE VALVES AND BOXES: PROVIDE AN EXTENDED VALVE STEM WHERE DEPTH TO TOP OF OPERATING NUT EXCEEDS 5 FEET.
10. CONTRACTOR TO INSTALL 10 AWG SOLID COPPER WIRE FOR ALL PIPES. THE TRACER WIRE IS TO BE TAPED TO THE PIPE AND STUBBED UP AT ALL HYDRANTS AND VALVES.
11. CONTRACTOR TO DETERMINE FIRE HYDRANT RISER LENGTH FOR EACH HYDRANT LOCATION PRIOR TO ORDERING HYDRANTS
12. FIRE HYDRANT WEEP HOLES SHALL BE DRAINED TO THE GROUND SURFACE OR TO DRY WELLS PROVIDED EXCLUSIVELY FOR THIS PURPOSE. WHERE FIRE HYDRANTS ARE LOCATED IN AREAS SUBJECT TO HIGH GROUNDWATER LEVELS OR FLOODING, THE WEEP HOLES WILL BE PLUGGED.
13. ALL HYDRANTS ARE TO BE INSTALLED BEHIND THE EXISTING DITCH LINE.
14. NO APPURTENANCES TO BE INSTALLED IN DITCH LINE.
15. ALL ASPHALT OR CONCRETE PAVED DRIVEWAYS, PARKING LOTS AND ROADS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE BORED UNLESS THE CONTRACTOR RECEIVES THE PROPERTY OWNER'S WRITTEN PERMISSION TO SAW CUT AND RESTORE TO ORIGINAL CONDITION. ALL PAVED AND GRAVEL DRIVEWAYS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO ORIGINAL CONDITION. COPIES OF WRITTEN PERMISSION WILL BE PROVIDED TO OWNER BEFORE STARTING WORK.
16. IF FIELD CONDITIONS AND SPACE WITHIN THE EASEMENT OR RIGHT-OF-WAY WILL ALLOW ADEQUATE PIPE BELL DEFLECTION TO AVOID CULVERTS AND REINFORCED CONCRETE PIPES, ELIMINATING THE NEED FOR EXTRA WATER LINE DEPTH, THE CONTRACTOR IS TO BRING THIS TO THE ATTENTION OF AMHERST COUNTY SERVICE AUTHORITY (ACSA) AND THE ENGINEER FOR THEIR CONSIDERATION.
17. IF FIELD CONDITIONS ARE SUCH THAT AIR VALVES OR MID-LINE BLOW OFFS CAN BE SAFELY ELIMINATED, THE CONTRACTOR IS TO BRING THIS TO THE ATTENTION OF AMHERST COUNTY SERVICE AUTHORITY (ACSA) AND THE ENGINEER FOR THEIR CONSIDERATION.
18. THE CONTRACTOR SHALL MAINTAIN "RED LINE" FIELD NOTES OF ANY DEVIATION FROM THE PLANS, AS APPROVED BY AMHERST COUNTY. THESE PLANS MUST BE PROVIDED TO THE CONSULTING ENGINEER, FOR PREPARATION OF AS-BUILT PLANS ON COMPLETION AND AMHERST COUNTY SERVICE AUTHORITY (ACSA) ACCEPTANCE OF THE PROJECT. THE CONSULTING ENGINEER SHALL PROVIDE THREE (3) SETS OF AS-BUILT PRINTS TO AMHERST COUNTY SERVICE AUTHORITY (ACSA) WITHIN 30 DAYS OF THE END OF CONSTRUCTION.
19. BACTERIOLOGICAL AND HYDROSTATIC WATER LINE TESTING REQUIRED BY VIRGINIA DEPARTMENT OF HEALTH SHALL BE PROVIDED BY THE CONTRACTOR. THE RESULTS WILL BE IMMEDIATELY FORWARDED TO AMHERST COUNTY SERVICE AUTHORITY (ACSA) AND THE ENGINEER. PRESSURE TESTING SHALL BE CONDUCTED AT 200 PSI. COMPACTION TESTS WITHIN ROAD RIGHT-OF-WAYS SHALL BE CONDUCTED BY AMHERST COUNTY SERVICE AUTHORITY (ACSA)'S CONSULTING ENGINEER, AS PART OF THE INSPECTION, WHEREVER THE INSPECTOR AND AMHERST COUNTY SERVICE AUTHORITY (ACSA) STAFF DETERMINE IT APPROPRIATE.

## VDOT UTILITY INSTALLATION GENERAL NOTES:

(THESE NOTES ONLY APPLY TO WORK IN VDOT RIGHT-OF-WAY)

1. ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING BUT NOT LIMITED TO: OSHA, NESC, DOT, ETC. GENERAL NOTES APPLY TO ALL DRAWINGS.
2. ALL WORK IN PUBLIC ROADS SHALL BE PERFORMED IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) 2016 ROAD AND BRIDGE STANDARDS AND 2020 ROAD AND BRIDGE SPECIFICATIONS. ALL WORK IN PUBLIC ROADS AND RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0
3. A VDOT LAND USE PERMIT IS REQUIRED FOR WORK PERFORMED WITHIN STATE RIGHT-OF-WAY. ACTIVITIES PERFORMED WITHIN STATE RIGHT-OF-WAY SHALL BE LIMITED TO THOSE EXPRESSLY COVERED BY THE PERMIT WORK DESCRIPTION.
4. PERMISSIONS GRANTED BY VDOT LAND USE PERMIT APPLY ONLY TO WORK PERFORMED INSIDE STATE RIGHT-OF-WAY AND IN NO WAY GRANTS PERMISSION FOR WORK TO BE PERFORMED ON PRIVATELY OWNED PROPERTY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMISSION OF PRIVATE PROPERTY OWNERS WHEN PERFORMING WORK OUTSIDE OF STATE RIGHT-OF-WAY, INCLUDING ACTIVITIES PERFORMED WITHIN PRESCRIPTIVE EASEMENTS.
5. CONTRACTOR SHALL MAINTAIN APPROVED COPIES OF ALL PROJECT RELATED VDOT PERMITS AND REFERENCED APPROVED PLANS ON-SITE AT ALL TIMES.
6. VDOT LAND USE SECTION SHALL BE NOTIFIED 5 DAYS PRIOR TO INITIATING WORK WITHIN STATE RIGHT-OF-WAY, LYNCHBURG DISTRICT VDOT LAND USE SECTION POINTS OF CONTACT ARE LISTED BELOW BY COVERAGE AREA:
   - AMHERST AND NELSON COUNTIES: PATRICIA MARTIN 434-856-8152
   - APPOMATTOX AND CAMPBELL COUNTIES: DANIEL NEWLAND 434-941-6963
   - BUCKINGHAM, CHARLOTTE, CUMBERLAND, AND PRINCE EDWARD COUNTIES: CHARLES EDWARDS 434-005-3262
   - HALIFAX AND PITTSYLVANIA COUNTIES: DAVID SHELTON 434-433-3135
7. PRIOR TO INITIATING WORK WITHIN STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH OWNER, ENGINEER, LOCALITY, SUBCONTRACTORS, AND VDOT.
8. MAINTENANCE OF TRAFFIC (MOT) PLAN(S) SHALL BE PROVIDED BY THE CONTRACTOR FOR VDOT REVIEW PRIOR TO THE ISSUANCE OF A LAND USE PERMIT BY VDOT.
9. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING VDOT TRAFFIC OPERATIONS CENTER (540-375-0170) UPON ENTERING AND EXITING THE ROADWAY.
10. CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNS, FLAG PERSONS AND OTHER DEVICES (LIGHTS, BARRICADES, ETC.) PROVIDING PROTECTION FOR TRAFFIC AND WORKERS IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0 OR AS DIRECTED BY THE AREA LAND USE ENGINEER.
11. IMPLEMENTATION OF TEMPORARY LANE CLOSURES MUST BE ENTERED INTO THE VDOT LANE CLOSURE ADVISORY MANAGEMENT SYSTEM (LCAMS) AND VATRAFFIC A MINIMUM OF ONE (1) WEEK PRIOR TO THE PLANNED EXECUTION OF LANE CLOSURE ACTIVITIES ON STATE MAINTAINED HIGHWAYS ROUTES 460, 29, 58 AND ALL LIMITED ACCESS AS NOTED ON THE PLANS. THE PERMITTEE OR THEIR CONTRACTOR(S) MAY ENTER THEIR REQUESTS DIRECTLY OR PROVIDE WRITTEN EMAIL REQUESTS TO THE VDOT REGIONAL OPERATIONS CENTER AT: SALEMSMART7TRAFFICCENTER@VDOT.VIRGINIA.GOV
12. CONTRACTOR SHALL ENSURE THAT ALL SIGNS ARE IN ACCORDANCE WITH THE VIRGINIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES VERSION 11.0 AND THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0.
13. FOR ALL ACTIVITIES PERFORMED UNDER THE AUSPICES OF A VDOT LAND USE PERMIT INVOLVING THE INSTALLATION, MAINTENANCE, AND REMOVAL OF WORK ZONE TRAFFIC CONTROL DEVICES, AT LEAST ONE INDIVIDUAL SHALL BE ON-SITE WHO IS VERIFIED BY VDOT INBASIC WORK ZONE TRAFFIC CONTROL. AN INDIVIDUAL VERIFIED BY VDOT IN INTERMEDIATE WORK ZONE TRAFFIC CONTROL SHALL BE ON-SITE TO PROVIDE SUPERVISION DURING WORK ZONE ADJUSTMENTS OR CHANGES TO TRAFFIC CONTROL DUE TO FIELD CONDITIONS. INDIVIDUALS SHALL HAVE THEIR VERIFICATION CARDS WITH THEM WHILE ON THE WORK SITE.
14. UNLESS OTHERWISE APPROVED IN WRITING BY THE VDOT AREA LAND USE ENGINEER, ALL WORK IN PUBLIC ROADS CLASSIFIED AS "ARTERIAL" OR "COLLECTOR" SHALL BE LIMITED TO THE HOURS OF 9:00 AM TO 3:30 PM, MONDAY THROUGH FRIDAY, IN THE LYNCHBURG DISTRICT. PUBLIC ROADS CLASSIFIED AS "LOCAL" ROADS SHALL HAVE UNRESTRICTED WORK HOURS AND DAYS, UNLESS OTHERWISE DIRECTED BY THE VDOT AREA LAND USE ENGINEER.
15. PERMITTED NON-EMERGENCY WORK WILL NOT BE ALLOWED ON PUBLIC ROADS CLASSIFIED AS "ARTERIAL" OR "COLLECTOR" FROM NOON ON THE PRECEDING WEEKDAY THROUGH THE FOLLOWING STATE OBSERVED HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.
16. WORK IN THE VICINITY OF SCHOOL ENTRANCES AND ON SCHOOL ROADS SHOULD BE AVOIDED DURING THE HOURS OF ADMISSION AND DISMISSAL SO AS NOT TO DISRUPT SCHOOL TRAFFIC.
17. NO EQUIPMENT OR MATERIALS SHALL BE STORED ON ROAD SURFACES OR ALLOWED TO OCCUPY THE CLEAR ZONE DURING PERIODS OF INACTIVITY. SEE THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0 FOR CLEAR ZONE DEFINITIONS.
18. EXCAVATION MATERIALS SHALL BE STORED AWAY FROM PAVED ROADWAYS. ALL SPILLED MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE TRAVEL SURFACES AND SHOULDERS.
19. MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. SHALL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY.
20. DURING CONSTRUCTION, ALL VDOT DRAINAGE STRUCTURES SHALL BE PROTECTED AGAINST SILTATION BY SEDIMENT TRAPPING DEVICES, PROPERLY INSTALLED IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATIONS AND VIRGINIA DEPARTMENT OF ENVIRONMENTAL (DEQ) STANDARDS. SEDIMENT TRAPPING DEVICES SHALL BE MAINTAINED UNTIL UPSTREAM STABILIZATION HAS BEEN ADEQUATELY ACHIEVED.
21. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE VDOT 2016 ROAD AND BRIDGE STANDARDS, 2020 ROAD AND BRIDGE SPECIFICATIONS, AND THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK.
22. CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY (1-800-552-7001) TO IDENTIFY AND MARK THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES.
23. CONTRACTOR SHALL CONTACT VDOT TRAFFIC ENGINEERING SECTION (DONALD LOGAN: 540-607-6427) A MINIMUM OF 7 DAYS PRIOR TO COMMENCEMENT OF INSTALLATION ACTIVITIES WITHIN 1,000 FEET OF SIGNALIZED INTERSECTIONS, FLASHING SIGNS, OR OTHER VDOT ELECTRICAL FACILITIES. THIS INCLUDES EXCAVATION, TRENCHING, PLOWING, OR BORING.
24. PLACEMENT OF FIBER OPTIC CABLE SHALL BE LIMITED TO THE AREAS OF THE STATE RIGHT-OF-WAY DESCRIBED BELOW:
   - OUTERMOST PORTION OF THE STATE RIGHT-OF-WAY AS ALLOWED BY EXISTING TERRAIN,
   - A MINIMUM OF 3 FEET FROM THE TOE OF FILL SLOPES,
   - A MINIMUM OF 2 FEET FROM THE BREAK POINTS OF SLOPES STEEPER THAN 3:1, UNLESS PUSHED, BORED OR JACKED.
   - FIBER PLACED UNDER PAVED AREAS SHALL BE PUSHED, BORED, OR JACKED,
   - FIBER PLACED WITHIN THE SHOULDER OF THE ROAD SHALL BE INSTALLED AS FOLLOWS:
     a. NO CLOSER THAN 4.0 FEET FROM THE EDGE OF PAVEMENT, OR WHITE LINE, AND NO CLOSER THAN 2.0 FEET FROM THE FACE OF GUARDRAIL.
     b. IF MINIMUM 4.0 AND 2.0 FOOT OFFSETS CANNOT BE ACHIEVED, VDOT LAND USE SECTION POINT OF CONTACT SHALL BE NOTIFIED TO AUTHORIZE ANY DEVIATIONS TO THE PERMITTED ACTIVITY.
     c. IF MINIMUM 4.0 FOOT OFFSET FROM EDGE OF PAVEMENT IS ACHIEVABLE BUT RESULTS IN THE PLACEMENT OF FIBER INSIDE THE ROADSIDE DITCHLINE, BORING WILL BE REQUIRED BENEATH THE DITCH CENTERLINE.
     d. NO CLOSER THAN 3.0 FEET FROM THE BACK OF POST IN GUARDRAIL SECTIONS.
25. FOR AERIAL CROSSINGS, MINIMUM VERTICAL CLEARANCES OF 18 FEET (NON-LIMITED ACCESS) AND 21 FEET (LIMITED ACCESS) SHALL BE MAINTAINED OVER ROADWAYS.
26. ALL BURIED UTILITIES WITHIN LIMITED ACCESS RIGHT-OF-WAY SHALL MAINTAIN A MINIMUM OF 36 INCHES OF COVER.
27. WITH THE EXCEPTION OF TELECOMMUNICATION AND CABLE TELEVISION, ALL BURIED UTILITIES WITHIN NON-LIMITED ACCESS RIGHT-OF-WAY SHALL MAINTAIN A MINIMUM OF 36 INCHES OF COVER. TELECOMMUNICATION AND CABLE TELEVISION FACILITIES BURIED WITHIN NON-LIMITED ACCESS RIGHT-OF-WAY SHALL MAINTAIN A MINIMUM OF 30 INCHES OF COVER.
28. UTILITY MARKERS SHALL BE LOCATED BEYOND THE AREAS OF NORMAL MAINTENANCE ACTIVITIES. THE PREFERRED PLACEMENT LOCATION IS AT THE STATE RIGHT-OF-WAY LINE. IF THIS IS NOT OBTAINABLE, OTHER AREAS MAY INCLUDE BESIDE SIGN POSTS LOCATED BEHIND THE DITCH LINE, IMMEDIATELY BEHIND THE BACK OF GUARDRAIL, OR BUNCHED TIGHTLY TOGETHER WITH EXISTING UTILITY MARKERS OR PEDESTALS.
29. JUNCTION BOXES SHALL MEET OR EXCEED VDOT STANDARDS JB-B1 & R2 AND JB-S1, S2, S3, S4. JUNCTION BOXES INSTALLED BETWEEN EDGE OF PAVEMENT AND DITCHLINE SHALL BE LOAD BEARING IN NATURE AND HAVE CONCRETE COLLARS PER VDOT STANDARD.
30. NO EXCAVATION (OPEN CUTS, PLOWS, BORE PITS, PULL POINTS, COUPLERS, ETC.) WILL BE ALLOWED ON AREAS OF A 3:1 SLOPE OR GREATER WITHOUT PRIOR APPROVAL BY THE VDOT DISTRICT ENGINEER'S DESIGNEE.
31. CONTRACTOR SHALL MAINTAIN AND PROVIDE UPON COMPLETION OF WORK, A SET OF COMPLETE "AS-BUILT" PLANS TO VDOT.
32. ANY ERRORS, CONFLICTS, OR DISCREPANCIES FOUND ON THE APPROVED PLANS SHALL BE REPORTED TO THE UTILITY OWNER. VDOT SHALL BE NOTIFIED FOR RESOLUTION BEFORE PROCEEDING FURTHER WITH THE WORK, IF THE STATE MAINTAINED RIGHT-OF-WAY IS AFFECTED.
33. THE COMMONWEALTH TRANSPORTATION BOARD, MEMBERS OF THE BOARD, THE COMMONWEALTH AND ALL COMMONWEALTH EMPLOYEES, AGENTS, AND OFFICES, SHALL BE ABSOLVED FROM ALL RESPONSIBILITIES, DAMAGES AND LIABILITIES AS A RESULT OF WORK ARISING FROM THE EXERCISE OF THE PRIVILEGES GRANTED BY PLAN AND/OR PERMIT APPROVAL.

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CIVIL ENGINEERING • CONSTRUCTION MANAGEMENT • LAND DEVELOPMENT
SURVEYING • PLANNING & ARCHITECTURE • CULTURAL RESOURCES


# GENERAL NOTES
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

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|---|---|
| PROJECT NO. | 20250492 |
| LAT. | 37.485008° |
| LONG. | -79.165542° |
| DATE: | 03/11/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

COMMONWEALTH OF VIRGINIA
W. CHRIS HODGES
LIC. NO. 060944
10/14/2026
PROFESSIONAL ENGINEER

APPROVED

HURT&PROFFITT

| SHEET NO. | REV. |
|---|---|
| G-002 | ---- |

*THIS SHEET IS INTENDED TO BE REPRODUCED AT 24"X36". REPRODUCTION OF THIS SHEET AT A DIFFERENT SIZE THAN INTENDED SHALL VOID THE SCALE SHOWN ON THE SHEET.

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF THE INSTALLATION OF APPROXIMATELY 2,800 LF OF WATERLINE ALONG THE SOUTH SIDE OF ROUTE 130 IN AMHERST COUNTY.

EXISTING SITE CONDITIONS:
THE WATERLINE ALIGNMENT LIES WITHIN A PROPOSED UTILITY EASEMENT PRIMARILY PARALLELING THE VDOT RIGHT-OF-WAY ALONG THE SOUTH SIDE OF ROUTE 130.

ADJACENT PROPERTIES:
THE PROPOSED EASEMENT IS WITH LIMITED RESIDENTIAL (R-1) AND PUBLIC LAND (P-1) ZONES. NORTH IS ELON ROAD / ROUTE 130 . ALL MEASURES SHALL BE TAKEN TO ENSURE THAT THE SITE IS STABILIZED AND NO ADDITIONAL SEDIMENT IS DEPOSITED OFFSITE INTO THE WATERSHED DISTRICT OR SURROUNDING PROPERTIES.

OFFSITE AREAS:
ALL GRADING SHALL OCCUR ON-SITE. ANY ADDITIONAL DIRT BORROWED OR WASTED FROM THE SITE WILL BE EITHER STOCKPILED OR REMOVED FROM A LOCATION CHOSEN BY THE CONTRACTOR AT A LATER DATE.

CRITICAL AREAS:
THE CRITICAL AREA FOR THIS PROJECT WILL BE THE HARRIS CREEK CROSSING NEAR THE WATER TREATMENT FACILITY WHERE RUNOFF FROM THE SITE COULD IMPACT THE WATERSHED DISTRICT. THE CONTRACTOR SHALL ENSURE THAT SILT FENCE IS INSTALLED TO PROTECT THESE AREAS. THE CROSSING OF BERG DRIVE AND THE CROSSING OF RT 130 (ELON ROAD).

SOILS:
SOILS ARE CLASSIFIED AS SPRIGGS LOAM, 15 TO 25 PERCENT SLOPES; COMUS FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED; MINNIEVILLE LOAM, 7 TO 15 PERCENT SLOPES; UDORTHENTS, SMOOTHED; ORENDA LOAM, 15 TO 25 PERCENT SLOPES; MINNIEVILLE LOAM 15 TO 25 PERCENT SLOPES; CLIFFORD LOAM, 7 TO 15 PERCENT SLOPES.

EROSION AND SEDIMENT CONTROL MEASURES:
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATION OF THE LATEST EDITION OF THE VIRGINIA STORM WATER MANAGEMENT HANDBOOK. THE MINIMUM STANDARDS OF THE HANDBOOK SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY VARIANCE.

SECTION C-PCM-04 - SILT FENCE
MAINTENANCE
1. INSPECT SILT FENCES IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. MAKE ANY REPAIRS IMMEDIATELY.
2. PAY CLOSE ATTENTION TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING. THIS IS COMMONLY A SIGN THE FENCE HAS EITHER BEEN IMPROPERLY INSTALLED OR IS PLACED IN A LESS THAN OPTIMAL LOCATION. IF THE FENCE CANNOT BE RELOCATED, THEN MORE FREQUENT INSPECTIONS WILL BE WARRANTED.
3. REPLACE THE FABRIC PROMPTLY IF THE FABRIC ON A SILT FENCE DECOMPOSES OR BECOMES INEFFECTIVE BEFORE THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY.
4. REMOVE TRASH, FLOATABLES, AND LARGE SEDIMENT DEPOSITS AFTER EACH STORM EVENT AND WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
5. DRESS TO CONFORM TO EXISTING GRADE, PREPARE, AND SEED ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED.
6. WHERE SILT FENCE OR ANY OF ITS DERIVATIVES HAVE FAILED BECAUSE OF CONCENTRATED RUNOFF, A ROCK FILTER OUTLET (SPECIFICATION BMP C-SCM-08) MUST BE PLACED AT THE LOCATION. DO NOT REINSTALL USING THE COMPROMISED PRACTICE.

SECTION C-SSM-09 - TEMPORARY SEEDING
MAINTENANCE
1. INSPECT SEEDED AREAS EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 0.5 INCH OR MORE OF PRECIPITATION. RESEED ANY BARE AREAS > 500 SQUARE FEET.
2. COVER SEEDED AREA WITH STRAW OR MULCH TO MODERATE SOIL MOISTURE AND TEMPERATURE DURING THE INITIAL GERMINATION PERIOD.
3. SUPPLY TEMPORARY SEEDING WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY IN ABNORMALLY HOT OR DRY WEATHER OR ON ADVERSE SITES. CONTROL WATER APPLICATION RATES TO PREVENT RUNOFF.

SECTION C-SSM-10 - PERMANENT SEEDING
MAINTENANCE
1. EVEN WITH CAREFUL, WELL-PLANNED SEEDING OPERATIONS, FAILURES CAN OCCUR. WHEN PLANTS HAVE NOT GERMINATED ON AN AREA OR HAVE DIED, RESEED THESE AREAS IMMEDIATELY TO PREVENT EROSION DAMAGE. HOWEVER, IT IS EXTREMELY IMPORTANT TO DETERMINE WHY GERMINATION FAILED AND TAKE ANY CORRECTIVE ACTION NECESSARY BEFORE RESEEDING THE AREA. HEALTHY VEGETATION IS THE MOST EFFECTIVE EROSION CONTROL AVAILABLE.

SECTION C-SSM-11 - MULCHING
MAINTENANCE
1. INSPECT ALL MULCHES AND SOIL COVERINGS PERIODICALLY AND AFTER RAINSTORM EVENTS TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED IN MULCHED AREAS, APPLY ADDITIONAL MULCH. INSPECT NETS AND MATS AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, REINSTALL NETTING OR MATTING AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. INSPECT MULCHES UNTIL GRASSES ARE FIRMLY ESTABLISHED.
2. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR (APPROXIMATELY EVERY 3 MONTHS) TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE; REPAIR AS NEEDED.

VEGETATIVE PRACTICES:

TEMPORARY SEEDING / PERMANENT STABILIZATION:
SEEDING MEASURES SHALL BE TAKEN ON DISTURBED SOIL AT CUT / FILL SLOPES, DITCH LINES, OR AREAS OUTSIDE OF ON-GOING CONSTRUCTION PRACTICES WITHIN SEVEN (7) DAYS OF COMPLETED GRADING. ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINAL GRADING.

SITE MAINTENANCE:
1. SILT FENCE BARRIERS SHALL BE CHECKED WEEKLY AND ESPECIALLY AFTER EACH RAINFALL EVENT, TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. IF ANY BARRIER IS DAMAGED DUE TO CONSTRUCTION ACTIVITIES, NATURAL CAUSES, OR ANY OTHER REASON, THE BARRIER SHALL BE REPAIRED OR REPLACED IMMEDIATELY. IF TRASH OR SEDIMENTATION REACHES ONE-HALF THE HEIGHT OF THE BARRIER, THE BARRIER SHALL BE CLEANED, AND RESTORED TO PROPER FUNCTIONING CONDITION.

2. ALL OTHER STRUCTURAL MEASURES ARE TO BE CHECKED WEEKLY AND ESPECIALLY AFTER EACH RAINFALL EVENT TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. ANY DAMAGED OR CLOGGED MEASURE SHALL BE CLEANED OUT OR REPAIRED IMMEDIATELY.

3. ALL SEDIMENT REMOVED FROM THE CONTROL DEVICES SHALL BE RE-SPREAD ON THE SITE ABOVE THE CONTROL DEVICES.

4. VEGETATION SHALL BE CHECKED WEEKLY TO INSURE PROPER AND ADEQUATE COVERAGE. BARE OR WASHED AREAS SHALL BE SCARIFIED AND RESEEDED UNTIL PERMANENT STABILIZATION HAS BEEN ACHIEVED.

5. ONCE SITE HAS ESTABLISHED AND SEDIMENT HAS CEASED TO BE CONVEYED ON THE SITE, ALL SILT FENCE BARRIERS SHALL BE REMOVED FROM THE SITE.

6. OTHER CONTROLS.
   A. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, GARBAGE AND DEBRIS SHALL BE DISCHARGED TO SURFACE WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A CWA SECTION 404 PERMIT.
   B. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, MINIMIZATION OF TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ON THE PAVEMENT WILL BE PREVENTED BY PROPER USE AND MAINTENANCE OF THE CONSTRUCTION ENTRANCES AND CLEANING THE ROAD AT THE END OF EACH DAY.
   C. STORAGE OF ONSITE MATERIALS WILL BE DONE TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER AND SPILL PREVENTION AND RESPONSE.
   D. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM.

INSPECTIONS AND REPORTING:
FACILITY PERSONNEL WHO ARE FAMILIAR WITH THE CONSTRUCTION ACTIVITY, THE BMPS AND THE STORMWATER POLLUTION PREVENTION PLAN WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS USED FOR STORAGE MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROLS AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. THESE INSPECTIONS SHALL BE CONDUCTED EVERY 14 DAYS OR WITHIN 48 HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES OR GREATER.

VIII. CONSTRUCTION SEQUENCE

1. INSTALL ALL SILT FENCE BARRIERS AS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL STABILIZE ALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO ANY GRADING, OR SITE CLEARING ACTIVITIES.
3. INSTALL WATERLINE.
4. TEMPORARY AND PERMANENT SEEDING AND MULCHING TO BE PLACED ON ALL DISTURBED AREAS.
5. CONTRACTOR TO RESTORE ALL AREAS BACK TO EITHER PROPOSED GRADES OR EXISTING CONDITIONS AFTER COMPLETION OF THE PROJECT. ALL DISTURBED AREA, HAUL ROADS, CONSTRUCTION ROADS, LAY DOWN AREA, ETC. SHALL BE RESTORED.
6. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED, AFTER FINAL STABILIZATION OF SITE HAS BEEN ACHIEVED.

EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS
9VAC25-875-560

MS-1: STABILIZATION - 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.

MS-2: STOCKPILES, WASTE, AND BORROW AREAS - DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES 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.

MS-3: PERMANENT VEGETATION - 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, IS MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.

MS-4: FIRST-STEP MEASURES - 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.

MS-5: EARTHEN STRUCTURE STABILIZATION - STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

MS-6: TRAPS AND BASINS - 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.

MS-7: CUT AND FILL SLOPES - 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.

MS-8: CONCENTRATED RUNOFF - CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.

MS-9: WATER SEEPS - WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

MS-10: INLET PROTECTION - 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.

MS-11: OUTLET PROTECTION - 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.

MS-12: WATERCOURSE CONSTRUCTION - 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.

MS-13: TEMPORARY VEHICULAR STREAM CROSSING - 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.

MS-14: OTHER WATERCOURSE REGULATIONS - ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

MS-15: BED AND BANK STABILIZATION - THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

MS-16: UTILITY CONSTRUCTION - 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.

MS-17: VEHICULAR TRACKING AND CONSTRUCTION ENTRANCES - 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.

MS-18: TEMPORARY CONTROL REMOVAL - 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 OR VESMP 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.

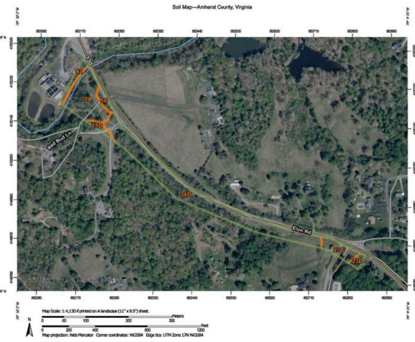
MS-19: ADEQUATE STORMWATER CONVEYANCE TO ADEQUATE STORMWATER OUTFALL - PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION, AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY, AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM 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 MANMADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS:
   a. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MANMADE 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) 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 MANMADE CHANNELS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP THE STORMWATER'S 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 MANMADE 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 PREDEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PREDEVELOPMENT PEAK RUNOFF RATE FROM A 10-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MANMADE CHANNEL; OR
      (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION, OR OTHER MEASURES THAT IS SATISFACTORY TO THE VESCP OR VESMP 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, THE APPLICANT SHALL OBTAIN APPROVAL FROM THE VESCP OR VESMP AUTHORITY FOR 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 THAT 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 MANMADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE 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-YEAR, TWO-YEAR, AND 10-YEAR 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING THE SITE 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 THE SITE WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN THE SITE'S PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 62.1-44.15:28 OF THE CODE OF VIRGINIA (VESMA) OR § 62.1-44.15:54 OR 62.1-44.15:65 OF THE CODE OF VIRGINIA (ESCL).
   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 CODE OF VIRGINIA (ESCL) AND THIS SUBDIVISION 19 SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE VESMA AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES (I) ARE IN ACCORDANCE WITH PROVISIONS FOR TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA IN 9VAC25-875-480 OR GRANDFATHERING IN 9VAC25-875-490, IN WHICH CASE THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE CODE OF VIRGINIA (ESCL) SHALL APPLY; OR (II) ARE EXEMPT PURSUANT TO § 62.1-44.15:34 G 2 OF THE CODE OF VIRGINIA (VESMA).
   n. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-875-600 SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF THIS SUBDIVISION 19.

EROSION AND SEDIMENT CONTROL DEVICES:

PERIMETER EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY. AS CONSTRUCTION PROCEEDS, ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS SOON AS POSSIBLE. EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN ARE A MINIMUM AND THE PROJECT CONDITION MAY DICTATE ADDITIONAL CONTROL. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

EROSION AND SEDIMENT CONTROL MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL TO INSURE THAT ALL DEVICES ARE IN PLACE AND FUNCTIONING AS REQUIRED. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. IN GENERAL, IF THE SILT BUILT UP BEHIND A BARRIER BECOMES AS DEEP AS 9 INCHES, THE SILT IS TO BE REMOVED AND THE BARRIER REPAIRED OR REPLACED. AFTER COMPLETION OF THE PROJECT, AND PERMANENT SEEDING HAS BEEN ESTABLISHED, EROSION CONTROL DEVICES AND ANY SILT BUILT UP SHALL BE REMOVED. DISTURBED AREAS DUE TO THIS CLEANUP OPERATION SHALL BE REPAIRED, RESEEDED AND REMULCHED.




USDA Natural Resources Conservation Service — Web Soil Survey, National Cooperative Soil Survey — 10/22/2025, Page 1 of 3

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| 5C | Clifford loam, 7 to 15 percent slopes | 0.2 | 2.9% |
| 10A | Comus fine sandy loam, 0 to 3 percent slopes, frequently flooded | 1.9 | 24.0% |
| 23C | Minnieville loam, 7 to 15 percent slopes | 0.6 | 7.5% |
| 23D | Minnieville loam, 15 to 25 percent slopes | 0.2 | 2.1% |
| 25D | Orenda loam, 15 to 25 percent slopes | 0.2 | 2.5% |
| 34D | Spriggs loam, 15 to 25 percent slopes | 4.4 | 56.9% |
| 42 | Udorthents, smoothed | 0.3 | 4.0% |
| Totals for Area of Interest | | 7.8 | 100.0% |

| | | |
|---|---|---|
| 3 | 10/14/2026 | ADDENDUM No.1 |
| 2 | 06/26/2026 | COUNTY COMMENTS |
| 1 | 04/30/2026 | VDOT COMMENTS |

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# EROSION & SEDIMENT CONTROL NOTES
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

| | |
|---|---|
| PROJECT NO. | 20250492 |
| LAT. | 37.485008° |
| LONG. | -79.165542° |
| DATE: | 03/11/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

COMMONWEALTH OF VIRGINIA
W. CHAD HODGES
Lic. No. 060844
10/14/2026
PROFESSIONAL ENGINEER

APPROVED

HURT&PROFFITT

SHEET NO. G-003
REV. ----

Oct 14, 2026 - 11:22am Z:\2025\20250492\Engineering\CAD\250492_COVER_DETAILS.dwg

### Table C-SSM-09-2 Liming
**Liming Requirements for Temporary Sites**

| pH Test | Recommended Application of Agricultural Limestone |
|---|---|
| below 4.2 | 3 tons per acre |
| 4.2 to 5.2 | 2 tons per acre |
| 5.2 to 6 | 1 ton per acre |

### Table C-SSM-09-3 Plant Material for Temporary Seeding
**Acceptable Temporary Seeding Plant Materials "Quick Reference for all Regions"**

| Planting Dates | Species | Application Rate (pounds per acre) |
|---|---|---|
| Sept. 1 - Feb. 15 | 50/50 Mix of annual ryegrass (*Lolium multi-florum*) & cereal (winter) rye (*Secale cereale*) | 50 - 100 |
| Feb. 16 - Apr. 30* | Annual ryegrass (*Lolium multi-florum*) | 60 - 100 |
| May 1* - Aug. 31 | German millet (*Setaria italica*) | 50 |

*The shift date for annual rye to German millet should be April 15 for the Piedmont and Coastal Plain, rather than May 1.

DEQ VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY — v1.1 — TEMPORARY SEEDING — C-SSM-09

### Table C-SSM-10-7 Site-Specific Seeding Mixtures for Piedmont Area

| Site Condition | Seed Mix | Application Rate (pounds per acre) |
|---|---|---|
| Minimum-Care Lawn Commercial or Residential | Turf-Type Tall Fescue: 95-100% | 150 – 200 |
| | Improved Perennial Ryegrass: 0-5% | |
| | Kentucky Bluegrass: 0-5% | |
| High-Maintenance Lawn | mproved (VCIA) Turf-Type Tall Fescue | 150 – 200 |
| General Slope (3H:1V or less) | Tall Fescue*** | 50 – 75 |
| | Red Top and/or Hard Fescue | 10 – 20 |
| | White Clover and/or Birdsfoot Trefoil** | 10 – 20 |
| | Seasonal Nurse Crop* | 30 – 40 |
| Low-Maintenance Slope (> 3:1) or Inaccessible Area*** | Tall Fescue | 50 – 75 |
| | Red Top and/or Hard Fescue | 5 – 10 |
| | Annual Lespedeza** | 10 – 15 |
| | White Clover and/or Birdsfoot Trefoil*** | 15 – 20 |
| | Seasonal Nurse/Cover Crop | 20 – 30 |

* Use seasonal nurse crop in accordance with seeding dates as stated below:
- February 16 through April annual rye
- February 16 through April – annual/cereal rye
- May 1 through August 15 – foxtail/German millet
- August 16 through February 15 – annual/cereal rye

** Use legume seed that is properly inoculated with specified Rhizobia. Legumes recommended unless periodic N fertilization is intended. Weeping lovegrass may be added to any slope or low-maintenance mix during warmer seeding periods; add 10 to 20 lbs/acre in mixes.

*** Increase seeding rate if KY-31 is used rather than VCIA/VDOT improved varieties.

Bermudagrass can be added as substitute for Tall or Hard Fescue in the Low Maintenance mixes for the Southern Piedmont, particularly on sandy soils or hot (S and W) facing slopes. May through October, use hulled seed. All other seeding periods, use un-hulled seed.

Note: Seed mixes are suggested and subject to modification based on site-specific conditions by an agronomist or other qualified revegetation professionals. All seed rates expressed as PLS (Pure Live Seed; see Table C-SSM-10-9).

DEQ VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY — v1.1 — PERMANENT SEEDING — C-SSM-10

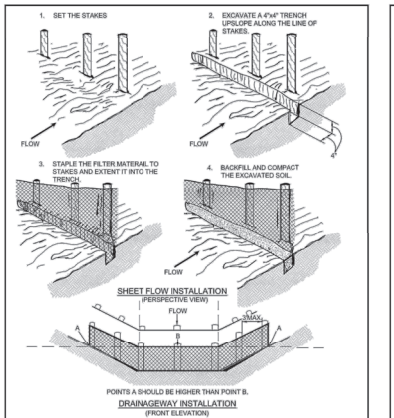
### Table C-SSM-11-5 Organic Mulch Materials and Application Rates

| Mulches | Rates | | Notes |
|---|---|---|---|
| | Per Acre | Per 1,000 sf | |
| Straw or Hay | 1.5 to 2 tons | 70to 90 lbs. | Free from weeds and coarse matter. Mst be anchored. Spread with mulch blower or by hand. Has a minimum of 2 tons per acre for winter cover. |
| Fiber Mulch | 1,500 lbs. | 35 lbs. | Do not use as mulch for winter cover onduring hot, dry periods. Apply as slurry. When fiber mch is the only available mulch during periods when ittaw should be used, apply at a minimum rate of 2000 lbs./acre or 45 lbs./1,000 sf. |
| Corn Stalks | 4 to 6 tons | 185to 275 lbs. | Cut or shredded in 4- to 6-inch lengths.Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand. |
| Wood Chips | 4 to 6 tons | 185to 275 lbs. | Free of coarse matter. Air dried. Treat with 12 lbs. nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand. |
| Bark Chips or Shredded Bark | 50 to 70 cy | to 2 cy | Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand. |

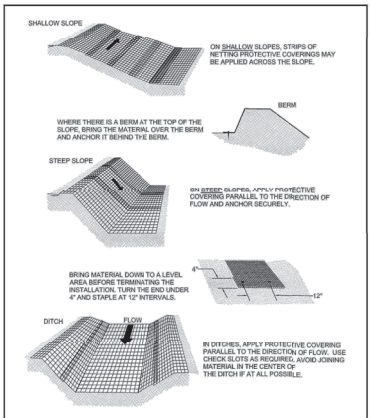
Inspect all mulches and soil coverings periodically and after rainstorm events to check for erosion. Where erosion is observed in mulched areas, apply additional mulch. Inspect nets and mats after rainstorms for dislocation or failure. If washouts or breakage occur, reinstall nettingor matting as necessary after repairing damage to the slope or ditch. Inspect mulches until grasses are firmly established.

Where mulch is used in conjunction with ornmental plantings, inspect periodically throughout the year (approximately every 3 months) to determine if mulch is maintaining coverage of the soil surface; repair as needec.

DEQ VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY — v1.1 — SOURCE: VA. DSWC — MULCHING — C-SSM-11




DEQ VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY — v1.1 — SOURCE: ADAPTED FROM STRAW & FAB. BARRIERS, SHERWOOD & WYANT — CONSTRUCTION OF SILT FENCE WITHOUT WIRE SUPPORT — C-PCM-04-2B




DEQ VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY — v1.1 — SOURCE: ADAPTED FROM LUDLOW PRODUCTS BROCHURE — TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET) — C-SSM-05-1

**DEQ EROSION AND SEDIMENT CONTROL PRACTICES**
**LEGEND**

- SF — *SILT FENCE (C-PCM-04)*
- TS — *TEMPORARY SEEDING (C-SSM-09)*
- PS — *PERMANENT SEEDING (C-SSM-10)*
- MU — *MULCHING (C-SSM-11)*
- SC — *SOIL STABILIZATION BLANKETS (C-SSM-05)*

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# EROSION & SEDIMENT CONTROL DETAILS
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

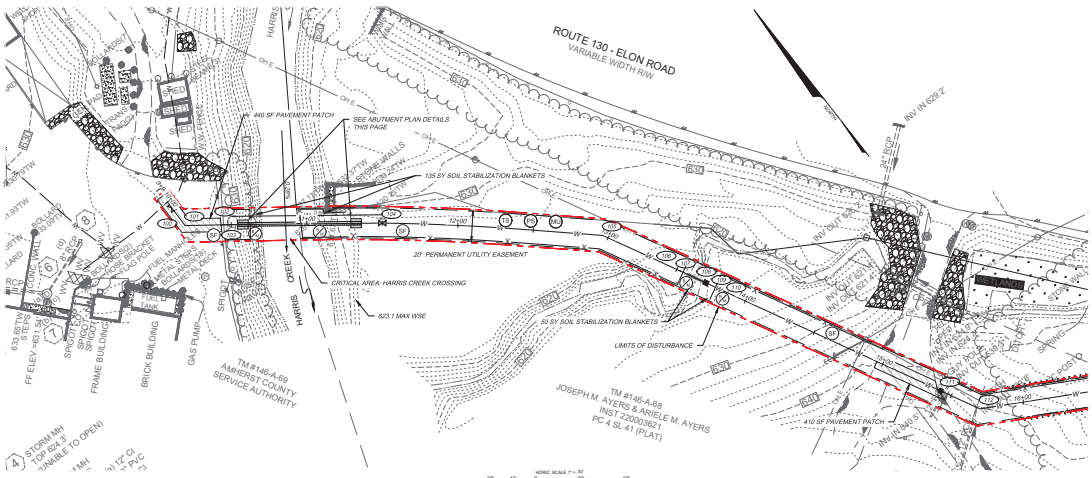
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| LONG. | -79.165542° |
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| CHECKED BY: | WCH |

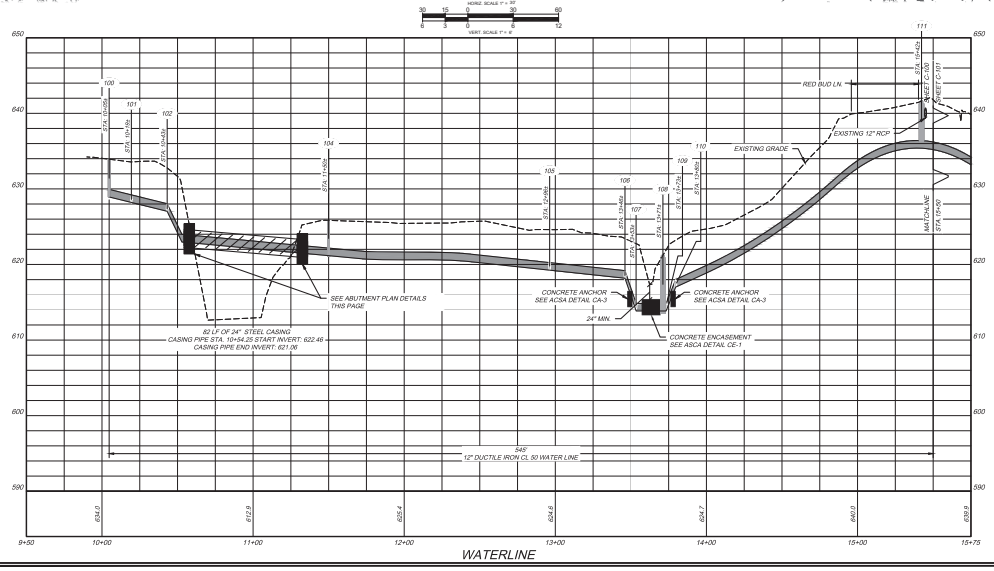
COMMONWEALTH OF VIRGINIA — W. CHRIS HODGES — LIC. NO. 060944 — 10/14/2026 — PROFESSIONAL ENGINEER

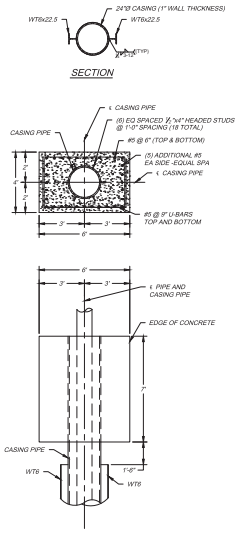
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WATERLINE STRUCTURE SCHEDULE

100 STA: 10+05±
REQ'D.
CONNECT TO EXISTING WATER LINE
(1) 12" TAPPING VALVE & SLEEVE

101 STA: 10+19±
REQ'D.
(1) 12"-45° BEND

102 STA: 10+43±
REQ'D.
(1) 12"-22.5° VERTICAL BEND

103 STA: 10+53±
REQ'D.
(1) 12"-22.5° VERTICAL BEND

104 STA: 11+50±
REQ'D.
(1) 12" GATE VALVE WITH BOX

105 STA: 12+98±
REQ'D.
(1) 12"-22.5° BEND

106 STA: 13+46±
REQ'D.
(1) 12"-45° VERTICAL BEND

107 STA: 13+53±
REQ'D.
(1) 12"-45° VERTICAL BEND

108 STA: 13+71±
REQ'D.
(1) MID-LINE BLOW-OFF ASSEMBLY (ACSA BO-2)

109 STA: 13+73±
REQ'D.
(1) 12"-45° VERTICAL BEND

110 STA: 13+80±
REQ'D.
(1) 12"-22.5° VERTICAL BEND

111 STA: 15+42±
REQ'D.
(1) AUTOMATIC AIR RELEASE ASSEMBLY (ACSA AR-1)

| | | |
|---|---|---|
| 3 | 10/14/2026 | ADDENDUM No.1 |
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# PLAN & PROFILE STA. START - 15+50
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

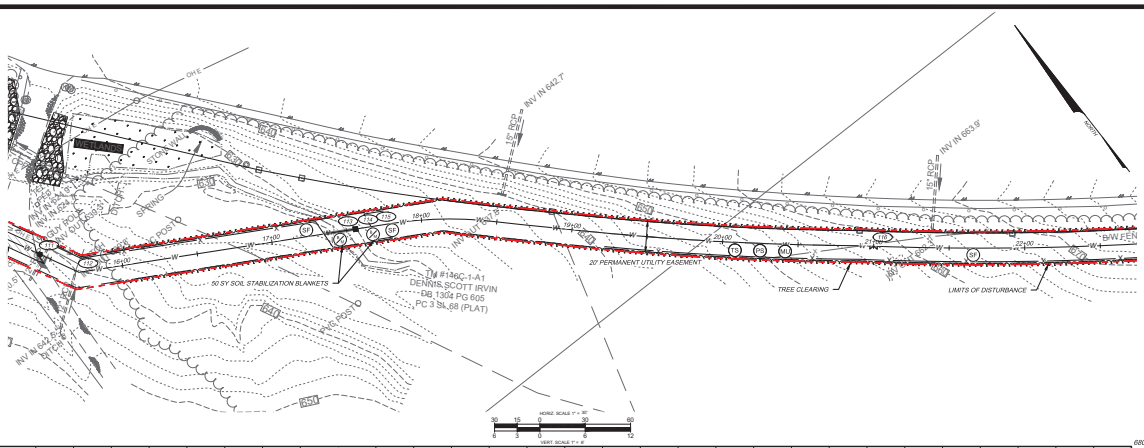
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| LAT: | 37.485008° |
| LONG. | -79.165542° |
| DATE: | 03/11/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

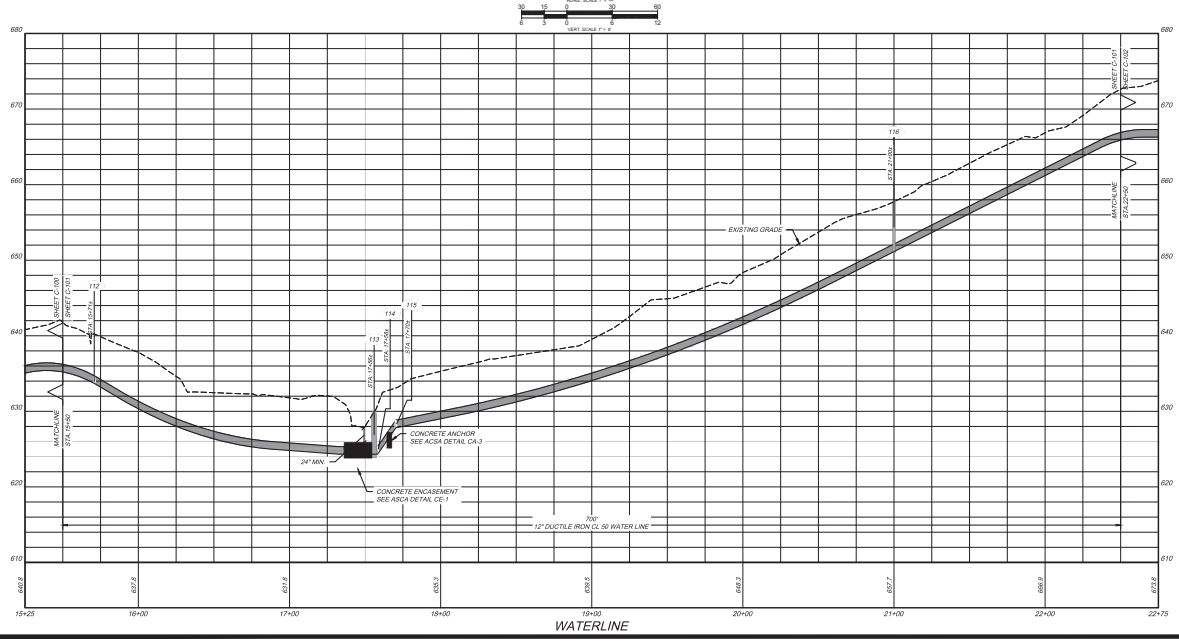
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| SHEET NO. | REV. |
|---|---|
| C-100 | ----- |




WATERLINE

WATERLINE STRUCTURE SCHEDULE

112 STA: 15+71±
REQ'D:
(1) 12" 22.5° BEND

113 STA: 17+56±
REQ'D:
(1) MID-LINE BLOW-OFF ASSEMBLY (ACSA BO-2)

114 STA: 17+58±
REQ'D:
(1) 12" 22.5° VERTICAL BEND

115 STA: 17+70±
REQ'D:
(1) 12" 22.5° VERTICAL BEND

116 STA: 21+00±
REQ'D:
(1) 12" GATE VALVE WITH BOX

| | | |
|---|---|---|
| 3 | 10/14/2026 | ADDENDUM No.1 |
| 2 | 09/26/2026 | COUNTY COMMENTS |
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# PLAN & PROFILE STA. 15+50 - 22+50
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

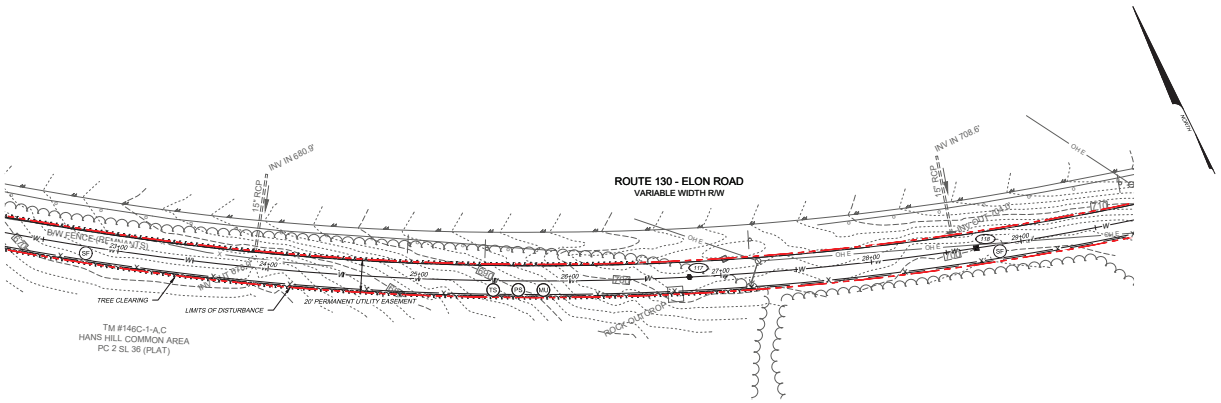
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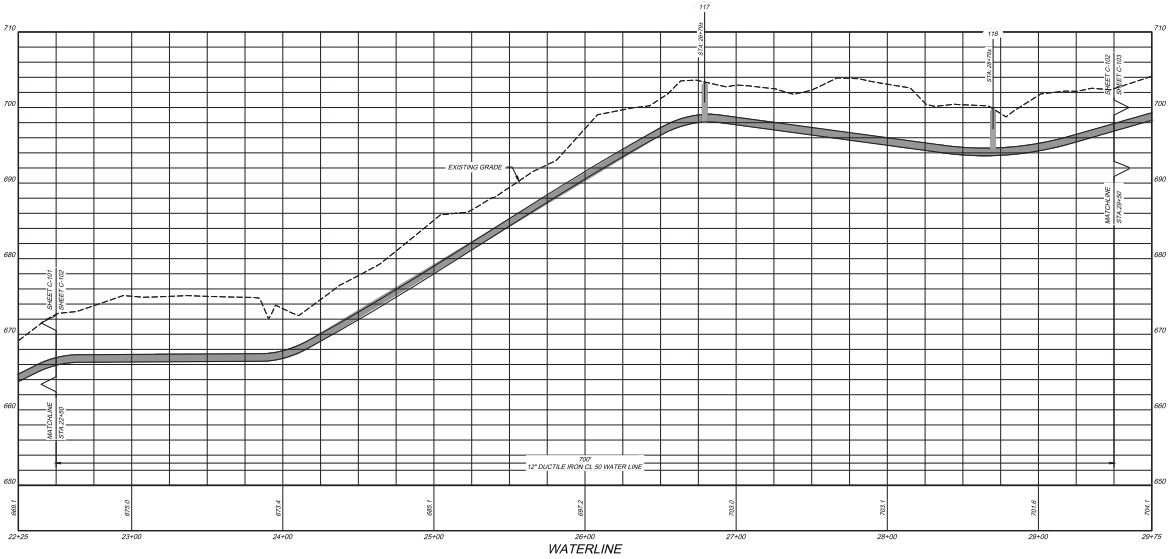
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*WATERLINE STRUCTURE SCHEDULE*

117 STA: 26+79± REQ'D: (1) AUTOMATIC AIR RELEASE ASSEMBLY (ACSA AR-1)

118 STA: 28+70± REQ'D: (1) MID-LINE BLOW-OFF ASSEMBLY (ACSA BO-2)

| | | |
|---|---|---|
| 3 | 10/14/2026 | ADDENDUM No.1 |
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# PLAN & PROFILE STA. 22+50 - 29+50
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

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| LAT. | 37.485008° |
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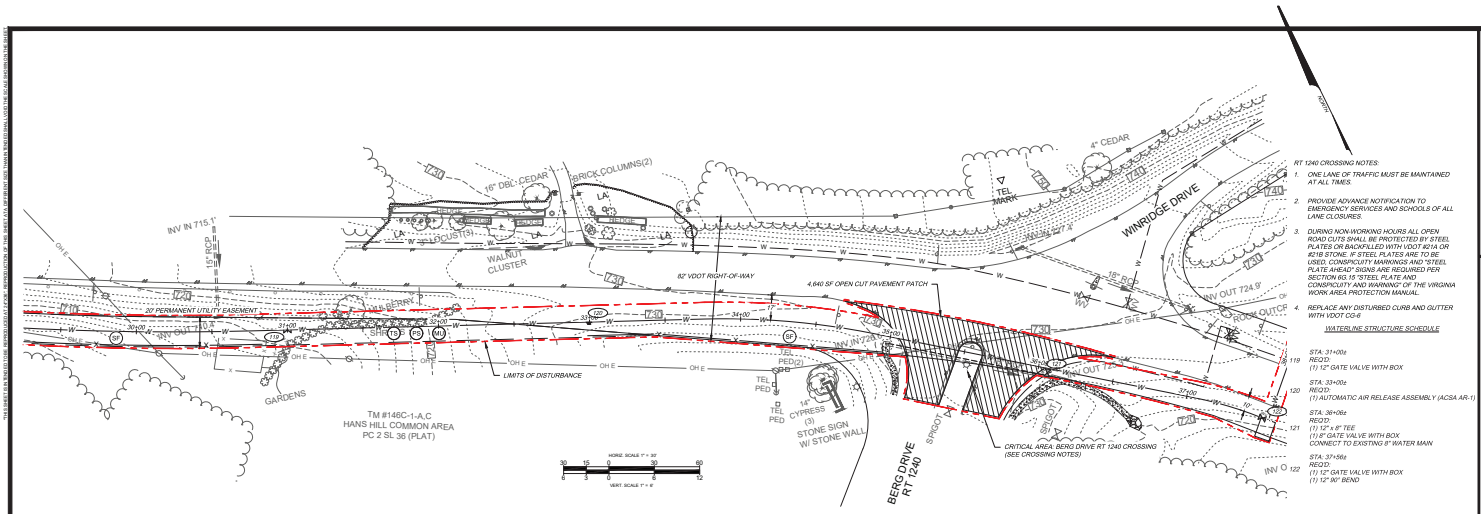
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SHEET NO. C-102

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RT 1240 CROSSING NOTES:

1. ONE LANE OF TRAFFIC MUST BE MAINTAINED AT ALL TIMES.
2. PROVIDE ADVANCE NOTIFICATION TO EMERGENCY SERVICES AND SCHOOLS OF ALL LANE CLOSURES.
3. DURING NON-WORKING HOURS ALL OPEN ROAD CUTS SHALL BE PROTECTED BY STEEL PLATES OR BACKFILLED WITH VDOT #21A OR #21B STONE. IF STEEL PLATES ARE TO BE USED, CONSPICUITY MARKINGS AND "STEEL PLATE AHEAD" SIGNS ARE REQUIRED PER SECTION 60.15 "STEEL PLATE AND CONSPICUITY AND WARNING" OF THE VIRGINIA WORK AREA PROTECTION MANUAL.
4. REPLACE ANY DISTURBED CURB AND GUTTER WITH VDOT CG-6

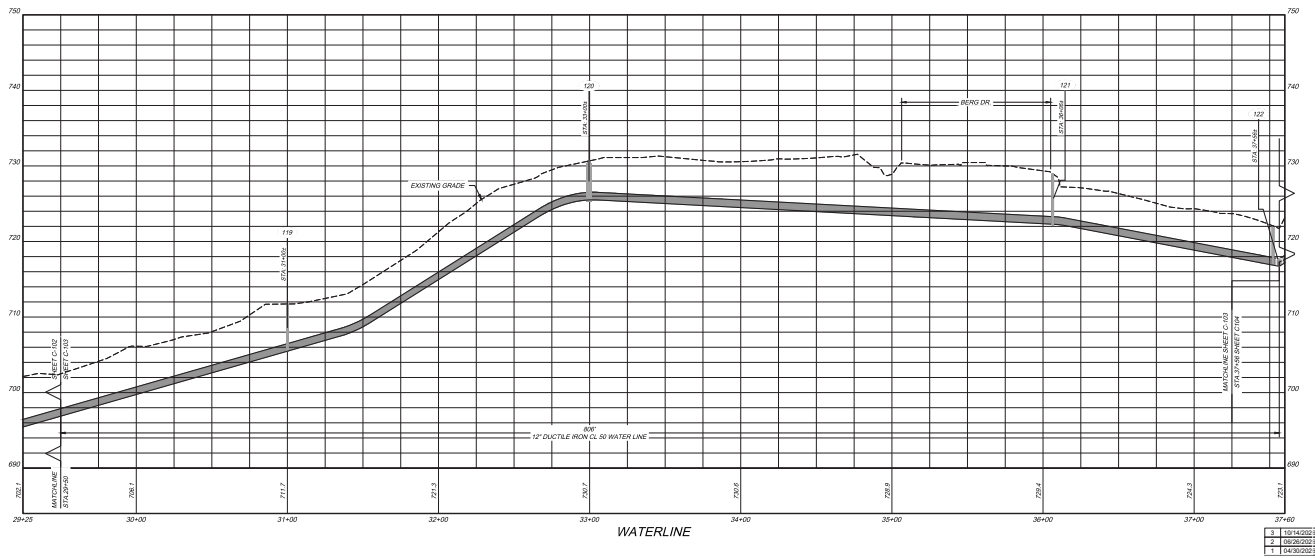
WATERLINE STRUCTURE SCHEDULE

STA. 31+00±
REQ'D:
(1) 12" GATE VALVE WITH BOX

STA. 33+00±
REQ'D:
(1) AUTOMATIC AIR RELEASE ASSEMBLY (ACSA AR-1)

STA. 36+06±
REQ'D:
(1) 12" x 8" TEE
(1) 8" GATE VALVE WITH BOX
CONNECT TO EXISTING 8" WATER MAIN

STA. 37+56±
REQ'D:
(1) 12" GATE VALVE WITH BOX
(1) 12" 90° BEND




| | | | |
|---|---|---|---|
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# PLAN & PROFILE STA. 29+50 - 37+56
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

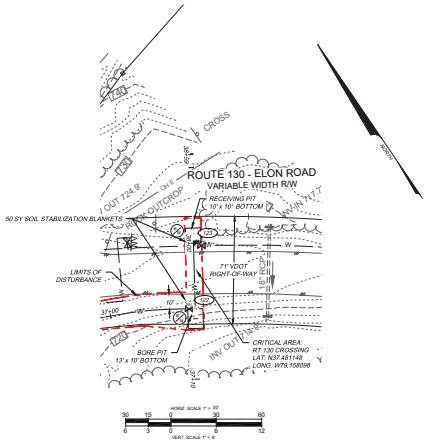
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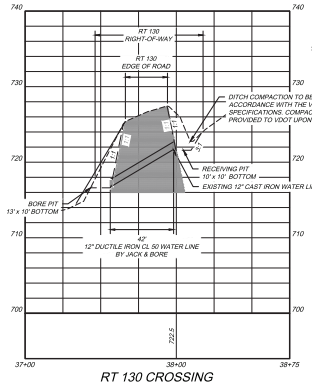
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10/14/2025
PROFESSIONAL ENGINEER

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RT 130 CROSSING

WATERLINE STRUCTURE SCHEDULE

STA: 37+98±
RECD:
123 (1) 12" X 12" TEE
(1) 12" GATE VALVE WITH BOX
CUT IN 12" TEE WITH VALVE AND CONNECT TO EXISTING WATER LINE

| | | |
|---|---|---|
| 3 | 10/14/2026 | ADDENDUM No.1 |
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# PLAN & PROFILE STA. 37+56 - END
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

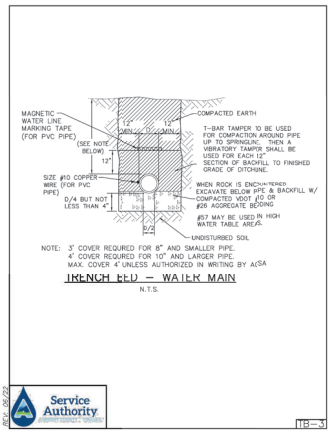
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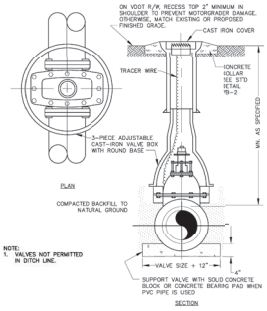
| SHEET NO. | REV. |
|---|---|
| C-104 | ----- |




NOTE: 3' COVER REQUIRED FOR 8" AND SMALLER PIPE.
4' COVER REQUIRED FOR 10" AND LARGER PIPE.
MAX. COVER 4' UNLESS AUTHORIZED IN WRITING BY ACSA

TRENCH BED – WATER MAIN
N.T.S.

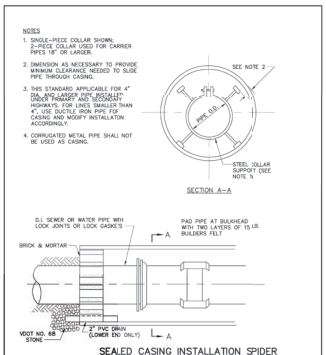
TR-3




NOTE:
1. VALVES NOT PERMITTED IN DITCH LINE.

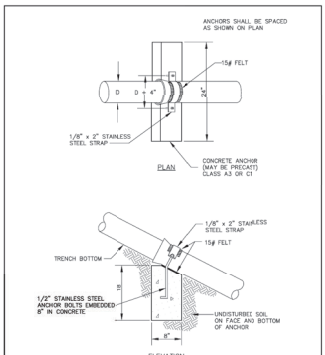
VALVE BOX INSTALLATION
N.T.S.

VB-1



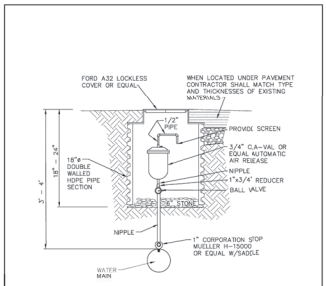

SEALED CASING INSTALLATION SPIDER
N.T.S.

CS-1



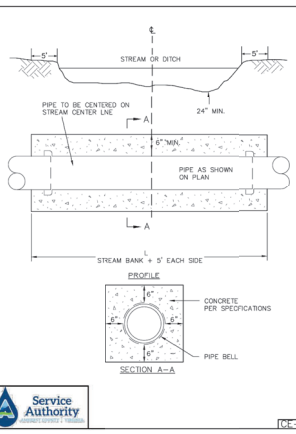

CONCRETE ANCHOR FOR WATER & FORCE MAINS
N.T.S.

CA-3

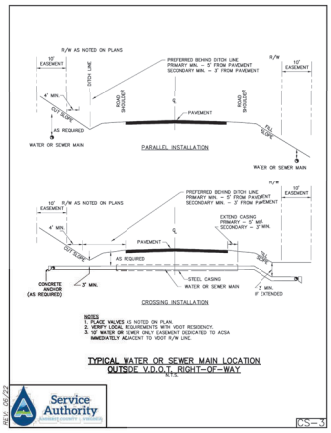



AUTOMATIC AIR RELEASE VALVE ASSEMBLY, TYPE I
N.T.S.

AR-1



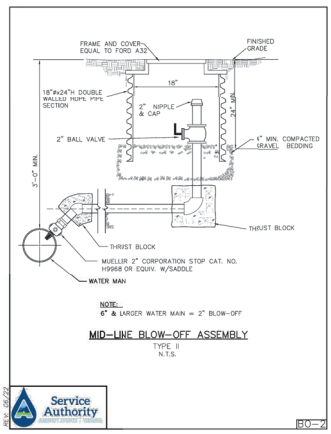

CE-1




NOTES
1. PLACE VALVES AS NOTED ON PLAN.
2. VERIFY LOCAL REQUIREMENTS WITH VDOT RESIDENCY.
3. 10' WATER OR SEWER ONLY EASEMENT DEDICATED TO ACSA IMMEDIATELY ADJACENT TO VDOT R/W LINE.

TYPICAL WATER OR SEWER MAIN LOCATION OUTSIDE V.D.O.T. RIGHT-OF-WAY
N.T.S.

CS-3




NOTE:
6" & LARGER WATER MAIN = 2" BLOW-OFF

MID-LINE BLOW-OFF ASSEMBLY
TYPE II
N.T.S.

BO-2

| | | |
|---|---|---|
| 3 | 10/14/2026 | ADDENDUM No.1 |
| 2 | 08/26/2026 | COUNTY COMMENTS |
| 1 | 04/30/2026 | VDOT COMMENTS |

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# WATERLINE DETAILS
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

| | |
|---|---|
| PROJECT NO. | 20250492 |
| LAT. | 37.485008° |
| LONG. | -79.165542° |
| DATE: | 03/11/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

COMMONWEALTH OF VIRGINIA
W. CHRIS HODGES
LIC. NO. 060944
10/14/2026
PROFESSIONAL ENGINEER

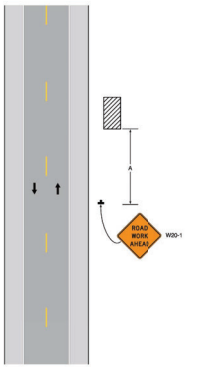
APPROVED

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SHEET NO. C-501

REV. ----

**Work Beyond the Shoulder**
**Figure TTC-1.0 (MUTCD 1A-1)**




Note: See Table 6P-2 for the meanings of the symbols used in this figure.
See Table 6P-V3 for sign spacing requirements ("A").
See Tables 6P-V5 through 6P-V7 for taper length requirements.
See Table 6P-V8 for channelizing device spacing requirements.





**Notes for Work Beyond the Shoulder**
**(Figure TTC-1.0) (MUTCD 1A-1)**

**Standard:**

**1. If the work space is in the median of a divided highway, an advance warning sign shall also be placed on the left-hand side of the directional roadway.**

Option:

2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 4 feet behind vertical curb on urban streets, or outside of the clear zone for all other roadways. For clear zone values see VWAPM Appendix A.
4. For short-term, short duration or mobile operation, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. [Paragraph Deleted]

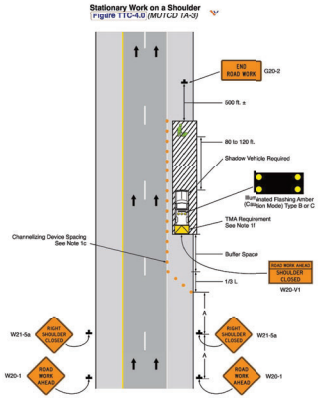
**Standard:**

**6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**





**Stationary Work on a Shoulder**
**Figure TTC-4.0 (MUTCD 1A-3)**




Note: See Table 6P-2 for the meanings of the symbols used in this figure.
See Table 6P-V3 for sign spacing requirements ("A").
See Tables 6P-V5 through 6P-V7 for taper length requirements.
See Table 6P-V8 for channelizing device spacing requirements.





**Notes for Stationary Work on a Shoulder**
**(Figure TTC-4.0) (MUTCD 1A-3)**

*Guidance:*

*1. [Paragraph Deleted]*

**Standard:**

**1a. For long-term stationary work (more than 3 days) on divided highways having a median wider than 8 feet, sign assemblies on both sides of the roadway shall be required as shown (ROAD WORK AHEAD (W20-1), RIGHT SHOULDER CLOSED AHEAD (W21-5bR), RIGHT SHOULDER CLOSED (W21-5aR)), even though only one shoulder is being closed.**

Option:

1b. Sign assemblies on the side opposite the shoulder closure may be may be omitted if the operation will be 3 days or less in duration.

2. [Paragraph Deleted]
3. [Paragraph Deleted]
4. The SHOULDER WORK (W21-5) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
5. [Paragraph Deleted]
6. [Paragraph Deleted]

**Standard:**

7. [Paragraph Deleted]
8. **[Paragraph Deleted]**
9. **See Table 6P-V5 for Taper Lengths and Table 6P-V8 for channelizing device spacing.**
10. **On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.**
11. **The buffer space length shall be as shown in Table 6P-V4 for the posted speed limit.**
12. **A truck-mounted attenuator (TMA) shall be used on the shadow vehicle on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph for operations with a duration greater than 60 minutes.**
13. **When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**



**NARRATIVE**

*THE SCOPE OF WORK FOR THIS PROJECT INCLUDES INSTALLATION WATER LINE PRIMARILY WITHIN A UTILITY EASEMENT PARALLEL TO THE VDOT RT 130 RIGHT-OF-WAY AND PARTIALLY WITHIN THE VDOT RT 130 RIGHT-OF-WAY AS WELL AS CROSSING RT 130 AND MAKING A CONNECTION TO AN EXISTING WATER LINE WITHIN THE RIGHT-OF-WAY.*

**GENERAL NOTES**

1. Estimate 4 week(s) required to complete the work within VDOT right of way.
2. Contractor is responsible for notifying Regional Traffic Operations Center at (540) 375-0170 upon entering and exiting the roadway.
3. VDOT Land Use Regulations require that work within the right of way be performed during non-peak hours of 9:00 AM to 3:30 PM Monday – Friday on all public roads classified as "arterial" or "collector", unless otherwise approved by VDOT.
4. All public roads classified as "local" roads are allowed unrestricted work hours and days.
5. Permitted nonemergency work will not be allowed on public roads classified as "arterial" or "collector" from noon on the preceding weekday through the following state observed holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.
6. Provisions shall be taken to ensure the safe passage of emergency vehicles at all times.
7. Work zones requiring flagging operations at signalized intersections shall involve coordination with law enforcement agencies and VDOT prior to work commencing.
8. All traffic control devices used shall conform to:
   a. The Virginia Work Area Protection Manual Version 11.0.
   b. The Virginia Manual on Uniform Traffic Control Devices Version 11.0.
   c. The National Cooperative Highway Research Program (NCHRP) Report 350.

**PUBLIC COMMUNICATIONS PLAN****

**This section only necessary if detour is proposed, or if significant impacts to traffic are expected.

**TRANSPORTATION OPERATIONS PLAN**

1. The process to notify the Regional Traffic Operations Center (TOC) of planned lane closures on Virginia Traffic Information Management System (VaTraffic) is:

   a. The Contractor shall notify the TOC at (540) 375-0170 of all planned lane closure information by 8:00 a.m. of the Thursday prior to the week the lane closure is to be executed.
   b. The Contractor shall submit planned lane closure information to VDOT Permit Specialist Daniel Newland at (434) 841-6863 by 8:00 a.m. of the Thursday prior to the week the lane closure is to be executed
   c. The Contractor shall notify the TOC, by a method or system specified by VDOT, thirty (30) minutes before a planned or approved lane, road, or shoulder closure is installed and within thirty (30) minutes after the closure is removed.
   d. The TOC operator will enter closure data in VaTraffic and monitor lane closure information.
   e. The Contractor shall notify the TOC at (540) 375-0170 of all traffic backups related to the lane closure.

**INCIDENT RESPONSE**

The following is a list of local emergency contact agencies:

- Emergency: 911
- Virginia State Police: 1 (800) 552-0962 or (434) 946-7101
- Amherst County Sheriff: (434) 946 9381
- Haz-Mat Center (if spill involved): 9 1

Procedures to respond to traffic incidents that may occur in the Work Zone:

- Contractor to notify Virginia State Police (VSP).
- Contractor to notify VDOT Permit Specialist Patricia Martin, at (434) 856-8152.
- Depending upon severity of incident, Contractor may be required to shut down work.
- Upon arrival on scene, VSP will take control of the incident and direct its clearing and restoration to normal traffic conditions.
- VDOT Permit Specialist will notify the Traffic Operations Center, Appomattox Assistant Resident Engineer, District Work Zone Safety Coordinator and District Safety Manager of incident and take pictures as necessary, especially pictures of work zone to document the setup.

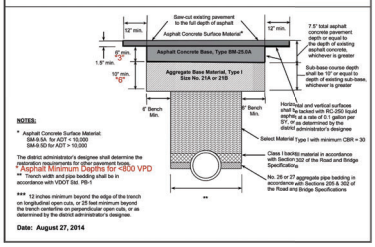
Process of notification of incident, to be followed by VDOT Permit Specialist, is to notify:

- Appomattox Assistant Resident Engineer: Daniel Brown (434) 215-9162
- District Work Zone Safety Coordinator: Danny Cruff (540) 309-8699
- District Safety Manager: Amanda Wilmink (634) 841-4225
- District Traffic Engineer: Donald Logan (540) 607-6427
- District Communications Manager: Len Stevens (434) 856-8176

The State Police Report of the incident will be reviewed by the District Work Zone Safety Coordinator to determine if any modification of the Temporary Traffic Control Plan is necessary. If it is determined that it is necessary to alter the plan, then a meeting will be called with the Responsible Charge Engineer, District Safety Manager, District Traffic Engineering representatives and the State Police (if necessary) to discuss modification and implementation of an improved traffic control plan.

VDOT Virginia Department of Transportation
**LAND USE PERMIT**
**LUP-OC**
**Open-Cut Pavement Restoration Requirements** MOD. 06.28.18

**Asphalt Pavement Restoration Detail for Open Cut Utility Installations**




**NOTES:**

* Asphalt Concrete Surface Material:
SM-9.5A for ADT < 10,000
SM-9.5D for ADT > 10,000

The district administrator's designee shall determine the restoration requirements for other pavement types.

* Asphalt Minimum Depths for <800 VPD

** Trench width and pipe bedding shall be in accordance with VDOT Std. PB-1

*** 12 inches minimum beyond the edge of the trench on longitudinal open cuts, or 28 feet minimum beyond the trench centerline on perpendicular open cuts, or as determined by the district administrator's designee.

**Date: August 27, 2014**

| | | |
|---|---|---|
| 3 | 10/14/2026 | ADDENDUM No.1 |
| 2 | 06/26/2026 | COUNTY COMMENTS |
| 1 | 04/30/2026 | VDOT COMMENTS |

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# TRAFFIC CONTROL DETAILS
FOR
# ROUTE 130 WATERLINE IMPROVEMENTS
AMHERST COUNTY, VIRGINIA

| | |
|---|---|
| PROJECT NO. | 20250492 |
| LAT. | 37.485008° |
| LONG. | -79.165542° |
| DATE: | 03/11/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

COMMONWEALTH OF VIRGINIA
W. CHRIS HODGES
LIC. NO. 060944
10/14/2026
PROFESSIONAL ENGINEER

APPROVED

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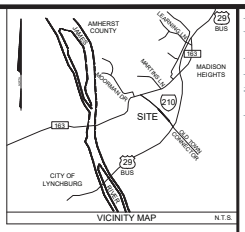
SHEET NO. C-502 REV. ----

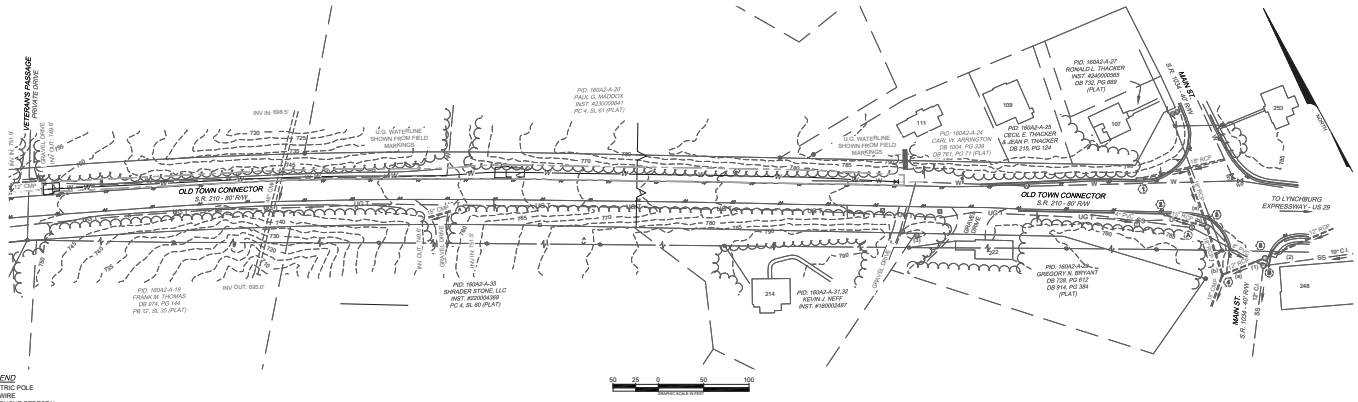
# COVER SHEET

## FOR

## ROUTE 210 WATER LINE CONNECTION

## AMHERST COUNTY , VIRGINIA




LEGEND

- ELECTRIC POLE
- GUY WIRE
- TELEPHONE PEDESTAL
- CLEANOUT
- WATER METER
- WATER VALVE
- STORM MANHOLE
- LIGHT POLE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- CREEK
- BENCHMARK
- SIGN
- GUARDRAIL
- EDGE OF WOODS
- FENCE
- OH E — OVERHEAD ELECTRIC
- OH T — OVERHEAD TELEPHONE
- UG T — UG TELEPHONE LINE
- CONCRETE
- RIP RAP

SHEET INDEX


G-001 - COVER SHEET
G-002 - GENERAL NOTES
G-003 - EROSION & SEDIMENT CONTROL NOTES
G-004 - EROSION & SEDIMENT CONTOL DETAILS
C-101 - PLAN & PROFILE
C-102 - PLAN & PROFILE
C-501 - WATER LINE DETAILS
C-502 - VDOT DETAILS


GENERAL NOTES

1. OWNER: AMHERST COUNTY SERVICE AUTHORITY
   CONTACT: TIM CASTILLO
   ADDRESS: 113 PHELPS RD. / P.O. BOX 100
   MADISON HEIGHTS, VA 24572
   PHONE: 434-221-8757
2. SCOPE: INSTALLATION OF APPROXIMATELY 940 LF OF WATER LINE ALONG THE NORTH SIDE OF ROUTE 210.
3. WATER LINE WILL BE INSTALLED WITHIN THE VDOT RIGHT-OF-WAY ALONG THE NORTH SIDE OF ROUTE 210.
4. TOTAL DISTURBED AREA: 0.2 AC. THIS IS A LINEAR PROJECT AND A VIRGINIA STORMWATER PERMIT WILL NOT BE REQUIRED.

VDOT NOTES:

1. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH VDOT PARTICIPATION PRIOR TO PERMIT ISSUANCE.
2. **A VDOT PERMIT IS REQUIRED PRIOR TO BEGINNING WORK WITHIN THE RIGHT-OF-WAY**

ACCEPTABLE TO VDOT
VDOT REPRESENTATIVE_____ DATE:_____

VDOT'S REVIEW IS NOT INTENDED TO BE EITHER COMPLETE OR COMPREHENSIVE AS IT IS THE RESPONSIBILITY OF THE SUBMITTING ENGINEER/SURVEYOR THAT SIGNS AND SEALS THESE PLANS TO ENSURE THE COMPLETENESS AND ACCURACY OF THEIR PLANS IN ACCORDANCE WITH GOVERNING LAWS, REGULATIONS, SPECIFICATIONS AND STANDARDS. PLAN ERRORS AND OR OMISSIONS DISCOVERED DURING CONSTRUCTION REMAIN THE RESPONSIBILITY OF THE SUBMITTING ENGINEER/SURVEYOR.

APPROVAL OF THIS SITE PLAN, AS INDICATED BY THE FOLLOWING SIGNATURES, DOES NOT RELIEVE THE APPLICANT FROM RESPONSIBILITY FOR COMPLYING WITH AMHERST COUNTY, AND AMHERST COUNTY SERVICE AUTHORITY REGULATIONS.

AMHERST COUNTY EROSION AND SEDIMENT CONTROL ADMINISTRATOR

NAME: _____ DATE:_____

AMHERST COUNTY SERVICE AUTHORITY

NAME: _____ DATE:_____

THE ENGINEER AND/OR SURVEYOR TAKES NO RESPONSIBILITY FOR THE LOCATION OR ACCURACY OF THE UTILITIES AS SHOWN HEREON OR ANY UTILITIES WITHIN THE PROJECT THAT MAY NOT BE SHOWN HEREON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY COMPANIES TO SEE IF ANY UTILITIES EXIST WITHIN THE AREA OF THE PROJECT BEFORE ANY CONSTRUCTION BEGINS. ANY COST INCURRED BY DAMAGING ANY UTILITY WITHIN THE PROJECT SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

48 WORKING HOURS PRIOR TO STARTING THE WORK, THE CONTRACTOR SHALL CALL MISS UTILITY AT PHONE NUMBER 811 AND ADVISE THE NATURE AND LOCATION OF THE WORK.

VIRGINIA CERTIFIED RESPONSIBLE LAND DISTURBER

NAME - PRINTED SIGNATURE DATE

PHONE # COMPANY

ADDRESS

| | | |
|---|---|---|
| 2 | 10/14/2026 | ADDENDUM No.1 |
| 1 | 06/26/2026 | AMHERST COUNTY COMMENTS |

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ARCHITECTURE • CONSTRUCTION TESTING & INSPECTION • CLIVIA WEB SERVICES

COVER SHEET
FOR
ROUTE 210 WATER LINE CONNECTION
AMHERST COUNTY, VIRGINIA

| | |
|---|---|
| PROJECT NO. | 20260468 |
| LAT. | 37.425856° |
| LONG. | -79.130077° |
| DATE: | 05/12/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

COMMONWEALTH OF VIRGINIA
W. CHRIS HODGES
Lic. No. 060044
10/14/2026
PROFESSIONAL ENGINEER

APPROVED

HURT&PROFFITT

| SHEET NO. | REV. |
|---|---|
| G-001 | ----- |

## GENERAL NOTES :

1. PRIOR TO STARTING CONSTRUCTION THE CONTRACTOR SHALL MAKE SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED AND ALL BONDS OR FEES HAVE BEEN PAID. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
2. EXISTING SITE FEATURES AND UTILITIES SHOWN HAVE BEEN BASED UPON SURVEYS AND OTHER SOURCES BELIEVED TO BE RELIABLE. THE CORRECTNESS OR COMPLETENESS OF THE INFORMATION SHOWN IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY ALL INFORMATION BEFORE COMMENCING WORK.
3. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT 811 A MINIMUM OF 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL MAINTAIN TRAFFIC PATTERNS AND SAFETY AT ALL TIMES ON SITE AND ON ADJACENT ROADWAYS.
5. NUMERICALLY WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE. NO SCALING OF DIMENSIONS TO BE ACCEPTED.
6. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
7. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE DRAWINGS AND SPECIFICATIONS AT THE SITE AT ALL TIMES DURING THE CONSTRUCTION.
8. ALL WORK PERFORMED AND MATERIALS SUPPLIED SHALL CONFORM TO THE PLANS AND/OR PROJECT SPECIFICATIONS. ANY WORK NOT COVERED IN THE PLANS OR SPECIFICATIONS SHALL CONFORM TO THE LATEST EDITION OF THE VDOT ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS AND AMHERST COUNTY SERVICE AUTHORITY (ACSA) STANDARDS AND SPECIFICATIONS. IN THE EVENT OF CONFLICT AMONG ANY OF THESE STANDARDS, SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL GOVERN.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES WHO MIGHT HAVE UTILITY LINES ON OR ABOUT THE PREMISES, OR WHO MIGHT BE AFFECTED BY CONSTRUCTION, THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE APPROPRIATE UTILITY COMPANIES. NO COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE OR ACTIVITIES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES INCLUDING AIRBORNE DUST DURING CONSTRUCTION AND FOLLOWING CONSTRUCTION UNTIL SUCH TIME AS PROPER VEGETATION IS REESTABLISHED.
11. THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT, RESPONSIBLE CHARGE OF ROBERT H. TUCK FROM AN AERIAL SURVEY. THE AERIAL PHOTOGRAPHY WAS COMPLETED MAY 9, 2024 AND MAPPING WAS PROVIDED BY TUCK MAPPING SOLUTIONS, INC. SUPPLEMENTAL FIELD SURVEY WAS COMPLETED JUNE 27, 2024 UNDER THE DIRECT, RESPONSIBLE CHARGE OF JOHN E. HODNETT. THIS MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
12. ALL CLEARED MATERIALS TO BE REMOVED FROM SITE AND DISPOSED OF LEGALLY AT THE CONTRACTOR'S EXPENSE.
13. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THAT ARE TO REMAIN IN PLACE. ANY DAMAGED UTILITY LINE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
14. ALL UNSUITABLE MATERIAL AND OTHER CONSTRUCTION DEBRIS SHALL BE HAULED OFF SITE AND DISPOSED OF LEGALLY.
15. PRIOR TO DISCONNECTION AND/ OR RELOCATION OF UTILITY SERVICES, CONTRACTOR TO CONTACT OWNERS REPRESENTATIVE TO COORDINATE SUCH ACTIVITIES WITH UTILITY COMPANIES.
16. CONTRACTOR SHALL COMPLY WITH ALL OSHA STANDARDS AND REGULATIONS FOR OPEN TRENCH EXCAVATIONS.
17. ALL EXCAVATION SHALL BE UNCLASSIFIED. CONTRACTOR RESPONSIBLE FOR EXCAVATING ALL MATERIALS INCLUDING ROCK.
18. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION, AMHERST COUNTY SERVICE AUTHORITY (ACSA), AND OTHER GOVERNING BODIES FOR PERMITS AND INSPECTIONS AS REQUIRED.
19. THE PROJECT AREA SHOWN HEREON IS LOCATED IN AN AREA OF MINIMAL FLOOD HAZARD, ZONE X.
20. CONSTRUCTION LIMITS SHALL INCLUDE ALL DISTURBED AREAS. ALL DISTURBED AREAS SHALL BE SEEDED AND PROVIDED WITH EROSION CONTROL DURING AND AT THE END OF CONSTRUCTION.
21. ALL SLOPES STEEPER THAN 2:1 SHALL BE PROTECTED WITH VDOT EC-2 EROSION CONTROL MATTING FROM TOP OF SLOPE TO TOE OF SLOPE. THE CONTRACTOR SHALL ENSURE THE PROPER INSTALLATION OF SUCH MEASURES IN ACCORDANCE WITH VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS AND THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.
22. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL CONFINED SPACE ENTRY REGULATIONS.
23. MAINTAIN ALL OVERHEAD AND UNDERGROUND ELECTRICAL, TELEPHONE, WATER, AND GAS SERVICES AND ALL OTHER UTILITIES DURING ENTIRE CONSTRUCTION PERIOD. UTILITY OUTAGES WILL NOT BE ALLOWED.
24. THE CONTRACTOR SHALL MAINTAIN SURFACE DRAINAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL PUMPS AND PIPING REQUIRED TO MAINTAIN SURFACE DRAINAGE.
25. THE CONTRACTOR SHALL BE FULLY LIABLE FOR REPAIR OF ANY DAMAGES ON PUBLIC OR PRIVATE PROPERTY CAUSED BY HIS CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REPLACE ALL DISTURBED SURFACES IN KIND, INCLUDING PAVEMENT, STONE, DITCHES, MAILBOXES, STORM CULVERTS, FENCING, ETC. AT NO ADDITIONAL COST TO THE OWNER.
26. ALL EXISTING SIGNS, CURBS, GUARDRAIL, FENCING, STONE, STRUCTURES, LANDSCAPING, PLANTERS, SHRUBS, AND OTHER PHYSICAL IMPROVEMENTS TEMPORARILY REMOVED BY THE CONTRACTOR SHALL BE REPLACED TO ORIGINAL CONDITION, OR TO THE PROPERTY OWNER AND TO THE SATISFACTION OF THE OWNER AND PROPERTY OWNER.
27. ALL PROPERTY PINS OR VDOT MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY A LAND SURVEYOR LICENSED IN THE COMMONWEALTH OF VIRGINIA AT THE CONTRACTOR'S EXPENSE.
28. THE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION FROM PROPERTY OWNERS FOR USE OF ANY ACCESS POINTS OTHER THAN THOSE LOCATED WITHIN RIGHT-OF-WAYS AND OBTAINED EASEMENTS. WRITTEN PERMISSION SHALL CONTAIN CONDITIONS FOR USE AND RESTORATION AGREEMENTS BETWEEN PROPERTY OWNER AND CONTRACTOR. COPIES OF WRITTEN PERMISSION SHALL BE PROVIDED TO OWNER PRIOR TO USING OTHER ACCESS POINTS.
29. TREES AND SHRUBS TO REMAIN IN PLACE SHALL BE ROPED OFF DURING GRADING OPERATIONS TO KEEP EQUIPMENT AWAY FROM ROOT SYSTEMS. THE CONTRACTOR SHALL MAKE SELECT CUTTING OF TREES, TAKING THE SMALLEST TREES FIRST, THAT ARE MANDATORY FOR WATER LINE CONSTRUCTION. TREES NOT REQUIRING REMOVAL FOR WATER LINE INSTALLATION SHALL BE PROTECTED AND REMAIN UNDISTURBED.
30. RESIDENCY POLICY FOR UTILITY CROSSING PRIVATE ENTRANCES IS TO REQUIRE THE UTILITY TO BE BORED UNDER THE ENTRANCES UNLESS THE PROPERTY OWNER AGREES IN WRITING TO ALLOW IT TO BE OPEN CUT.
31. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES OR EROSION/SEDIMENT CAUSED BY THE TESTING OF THE WATER LINE SUCH AS FLUSHING OF THE FIRE HYDRANTS. THE CONTRACTOR IS TO MAKE EVERY EFFORT TO MINIMAZE IMPACTS.
32. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH: THESE PLANS, THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) ROAD AND BRIDGE SPECIFICATIONS, DATED 2016; THE VDOT ROAD AND BRIDGE STANDARDS, DATED 2016; THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0.
33. THE GRADE LINES DENOTE TOP OF FINISHED PAVEMENT UNLESS SHOWN OTHERWISE ON TYPICAL SECTIONS OR PLANS.
34. THAT PORTION OF THE RIGHT OF WAY LYING WITHIN THE CLEAR ZONE OR WITHIN A MINIMUM OF 10 FEET, FROM THE EDGE OF PAVEMENT OR SURFACING OR WITHIN THE LIMITS OF THE CONSTRUCTION SLOPES BEYOND 10 FEET, SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH THE APPLICABLE VDOT ROAD AND BRIDGE SPECIFICATIONS, SECTIONS 301, WHERE SUFFICIENT RIGHT OF WAY OR CONSTRUCTION EASEMENT IS PROVIDED.
35. WHERE STANDARD SLOPE ROUNDOFFS WOULD DAMAGE TREES, BUSHES OR OTHER DESIRABLE VEGETATION, THEY SHALL BE OMITTED WHEN SO ORDERED BY THE ENGINEER.

## WATERLINE NOTES:

1. ALL WATERLINE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AMHERST COUNTY SERVICE AUTHORITY (ACSA) SPECIFICATIONS AND THESE PLANS AND SPECIFICATIONS.
2. WATER MAINS SHALL BE HDPE, UNLESS OTHERWISE NOTED.
3. USE SADDLES FOR ALL SERVICE TAPS ON THE WATER MAIN.
4. ALL SERVICE LINES, UNLESS OTHERWISE NOTED, ARE TO BE 3/4" COPPER PIPE. IF SERVICE LINE CROSSES ROAD, IT MUST BE IN A 2" CASING PIPE. MINIMUM PRESSURE RATING OF ALL PIPE TO BE 200 PSI.
5. FOR WATERLINES CROSSING UNDER A STORM OR SEWER PIPE, MAINTAIN MINIMUM 18" VERTICAL SEPARATION OF THE PIPES, ENSURE PROPER STRUCTURAL SUPPORT OF THE STORM OR SEWER PIPE TO PREVENT SETTLEMENT AND/OR DEFLECTION AND INSTALL THE WATERLINE SO THAT THE CROSSING IS AT THE MID-POINT OF A FULL LENGTH SECTION OF WATERLINE PIPE. MAINTAIN 10' OF HORIZONTAL SEPARATION BETWEEN WATER AND SANITARY SEWER LINES, UNLESS OTHERWISE NOTED.
6. WHERE WATER LINE IS SHOWN DEFLECTING WITHOUT FITTINGS, THE CONTRACTOR IS TO FOLLOW THE PIPE MANUFACTURER'S RECOMMENDATIONS. IF THE DEFLECTION CANNOT BE MADE, THE CONTRACTOR IS TO CONTACT THE ENGINEER FOR ASSISTANCE IN DETERMINING APPROPRIATE FITTING.
7. ALL PIPE, FITTINGS, AND APPURTENANCES SHALL BE RESTRAINED AND ANCHORED IN ACCORDANCE WITH THE STANDARD DETAILS. THRUST RESTRAINTS ARE REQUIRED FOR ALL BENDS AND TEES. IF MECHANICAL JOINT RESTRAINT SYSTEMS ARE USED, INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS RELATED TO NUMBER OF JOINTS RESTRAINED.
8. WATERLINES SHALL HAVE A MINIMUM COVER OF 48 INCHES AND BE LAID DEEPER WHERE SHOWN ON THE PROFILES TO PROVIDE GRADES TO AIR RELEASES AND BLOW OFF VALVES; AND AS REQUIRED TO ALLOW FOR 18 INCHES OF SEPARATION BETWEEN PROPOSED WATER LINES AND EXISTING STORM OR SANITARY SEWER LINES (SEE NOTE 5).
9. GATE VALVES AND BOXES: PROVIDE AN EXTENDED VALVE STEM WHERE DEPTH TO TOP OF OPERATING NUT EXCEEDS 5 FEET.
10. CONTRACTOR TO INSTALL 10 AWG SOLID COPPER WIRE FOR ALL PIPES. THE TRACER WIRE IS TO BE TAPED TO THE PIPE AND STUBBED UP AT ALL HYDRANTS AND VALVES.
11. CONTRACTOR TO DETERMINE FIRE HYDRANT RISER LENGTH FOR EACH HYDRANT LOCATION PRIOR TO ORDERING HYDRANTS
12. FIRE HYDRANT WEEP HOLES SHALL BE DRAINED TO THE GROUND SURFACE OR TO DRY WELLS PROVIDED EXCLUSIVELY FOR THIS PURPOSE. WHERE FIRE HYDRANTS ARE LOCATED IN AREAS SUBJECT TO HIGH GROUNDWATER LEVELS OR FLOODING, THE WEEP HOLES WILL BE PLUGGED.
13. ALL HYDRANTS ARE TO BE INSTALLED BEHIND THE EXISTING DITCH LINE.
14. NO APPURTENANCES TO BE INSTALLED IN DITCH LINE.
15. ALL ASPHALT OR CONCRETE PAVED DRIVEWAYS, PARKING LOTS AND ROADS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE BORED UNLESS THE CONTRACTOR RECEIVES THE PROPERTY OWNER'S WRITTEN PERMISSION TO SAW CUT AND RESTORE TO ORIGINAL CONDITION. ALL PAVED AND GRAVEL DRIVEWAYS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REPLACED TO ORIGINAL CONDITION. COPIES OF WRITTEN PERMISSION WILL BE PROVIDED TO OWNER BEFORE STARTING WORK.
16. IF FIELD CONDITIONS AND SPACE WITHIN THE EASEMENT OR RIGHT-OF-WAY WILL ALLOW ADEQUATE PIPE BELL DEFLECTION TO AVOID CULVERTS AND REINFORCED CONCRETE PIPES, ELIMINATING THE NEED FOR EXTRA WATER LINE DEPTH, THE CONTRACTOR IS TO BRING THIS TO THE ATTENTION OF AMHERST COUNTY SERVICE AUTHORITY (ACSA) AND THE ENGINEER FOR THEIR CONSIDERATION.
17. IF FIELD CONDITIONS ARE SUCH THAT AIR VALVES OR MID-LINE BLOW OFFS CAN BE SAFELY ELIMINATED, THE CONTRACTOR IS TO BRING THIS TO THE ATTENTION OF AMHERST COUNTY SERVICE AUTHORITY (ACSA) AND THE ENGINEER FOR THEIR CONSIDERATION.
18. THE CONTRACTOR SHALL MAINTAIN "RED LINE" FIELD NOTES OF ANY DEVIATION FROM THE PLANS, AS APPROVED BY AMHERST COUNTY. THESE PLANS MUST BE PROVIDED TO THE CONSULTING ENGINEER, FOR PREPARATION OF AS-BUILT PLANS ON COMPLETION AND AMHERST COUNTY SERVICE AUTHORITY (ACSA) ACCEPTANCE OF THE PROJECT. THE CONSULTING ENGINEER SHALL PROVIDE THREE (3) SETS OF AS-BUILT PRINTS TO AMHERST COUNTY SERVICE AUTHORITY (ACSA) WITHIN 30 DAYS OF THE END OF CONSTRUCTION.
19. BACTERIOLOGICAL AND HYDROSTATIC WATER LINE TESTING REQUIRED BY VIRGINIA DEPARTMENT OF HEALTH SHALL BE PROVIDED BY THE CONTRACTOR. THE RESULTS WILL BE IMMEDIATELY FORWARDED TO AMHERST COUNTY SERVICE AUTHORITY (ACSA) AND THE ENGINEER. PRESSURE TESTING SHALL BE CONDUCTED AT 200 PSI. COMPACTION TESTS WITHIN ROAD RIGHT-OF-WAYS SHALL BE CONDUCTED BY AMHERST COUNTY SERVICE AUTHORITY (ACSA)'S CONSULTING ENGINEER, AS PART OF THE INSPECTION, WHEREVER THE INSPECTOR AND AMHERST COUNTY SERVICE AUTHORITY (ACSA) STAFF DETERMINE IT APPROPRIATE.

## VDOT UTILITY INSTALLATION GENERAL NOTES:

(THESE NOTES ONLY APPLY TO WORK IN VDOT RIGHT-OF-WAY)

1. ALL WORK SHALL COMPLY WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING BUT NOT LIMITED TO: OSHA, NESC, DOT, ETC. GENERAL NOTES APPLY TO ALL DRAWINGS.
2. ALL WORK IN PUBLIC ROADS SHALL BE PERFORMED IN ACCORDANCE WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) 2016 ROAD AND BRIDGE STANDARDS AND 2020 ROAD AND BRIDGE SPECIFICATIONS. ALL WORK IN PUBLIC ROADS AND RIGHTS-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0
3. A VDOT LAND USE PERMIT IS REQUIRED FOR WORK PERFORMED WITHIN STATE RIGHT-OF-WAY. ACTIVITIES PERFORMED WITHIN STATE RIGHT-OF-WAY SHALL BE LIMITED TO THOSE EXPRESSLY COVERED BY THE PERMIT WORK DESCRIPTION.
4. PERMISSIONS GRANTED BY VDOT LAND USE PERMIT APPLY ONLY TO WORK PERFORMED INSIDE STATE RIGHT-OF-WAY AND IN NO WAY GRANTS PERMISSION FOR WORK TO BE PERFORMED ON PRIVATELY OWNED PROPERTY. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE PERMISSION OF PRIVATE PROPERTY OWNERS WHEN PERFORMING WORK OUTSIDE OF STATE RIGHT-OF-WAY, INCLUDING ACTIVITIES PERFORMED WITHIN PRESCRIPTIVE EASEMENTS.
5. CONTRACTOR SHALL MAINTAIN APPROVED COPIES OF ALL PROJECT RELATED VDOT PERMITS AND REFERENCED APPROVED PLANS ON-SITE AT ALL TIMES.
6. VDOT LAND USE SECTION SHALL BE NOTIFIED 5 DAYS PRIOR TO INITIATING WORK WITHIN STATE RIGHT-OF-WAY, LYNCHBURG DISTRICT VDOT LAND USE SECTION POINTS OF CONTACT ARE LISTED BELOW BY COVERAGE AREA:
   - AMHERST AND NELSON COUNTIES: PATRICIA MARTIN 434-856-8152
   - APPOMATTOX AND CAMPBELL COUNTIES: DANIEL NEWLAND 434-941-6063
   - BUCKINGHAM, CHARLOTTE, CUMBERLAND, AND PRINCE EDWARD COUNTIES: CHARLES EDWARDS 434-005-3262
   - HALIFAX AND PITTSYLVANIA COUNTIES: DAVID SHELTON 434-433-3135
7. PRIOR TO INITIATING WORK WITHIN STATE RIGHT-OF-WAY, THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH OWNER, ENGINEER, LOCALITY, SUBCONTRACTORS, AND VDOT.
8. MAINTENANCE OF TRAFFIC (MOT) PLAN(S) SHALL BE PROVIDED BY THE CONTRACTOR FOR VDOT REVIEW PRIOR TO THE ISSUANCE OF A LAND USE PERMIT BY VDOT.
9. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING VDOT TRAFFIC OPERATIONS CENTER (540-375-0170) UPON ENTERING AND EXITING THE ROADWAY.
10. CONTRACTOR SHALL PROVIDE ALL NECESSARY SIGNS, FLAG PERSONS AND OTHER DEVICES (LIGHTS, BARRICADES, ETC.) PROVIDING PROTECTION FOR TRAFFIC AND WORKERS IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0 OR AS DIRECTED BY THE AREA LAND USE ENGINEER.
11. IMPLEMENTATION OF TEMPORARY LANE CLOSURES MUST BE ENTERED INTO THE VDOT LANE CLOSURE ADVISORY MANAGEMENT SYSTEM (LCAMS) AND VATRAFFIC A MINIMUM OF ONE (1) WEEK PRIOR TO THE PLANNED EXECUTION OF LANE CLOSURE ACTIVITIES ON STATE MAINTAINED HIGHWAYS ROUTES 460, 29, 58 AND ALL LIMITED ACCESS AS NOTED ON THE PLANS. THE PERMITTEE OR THEIR CONTRACTOR(S) MAY ENTER THEIR REQUESTS DIRECTLY OR PROVIDE WRITTEN EMAIL REQUESTS TO THE VDOT REGIONAL OPERATIONS CENTER AT: SALEMSMART7TRAFFICCENTER@VDOT.VIRGINIA.GOV
12. CONTRACTOR SHALL ENSURE THAT ALL SIGNS ARE IN ACCORDANCE WITH THE VIRGINIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES VERSION 11.0 AND THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0.
13. FOR ALL ACTIVITIES PERFORMED UNDER THE AUSPICES OF A VDOT LAND USE PERMIT INVOLVING THE INSTALLATION, MAINTENANCE, AND REMOVAL OF WORK ZONE TRAFFIC CONTROL DEVICES, AT LEAST ONE INDIVIDUAL SHALL BE ON-SITE WHO IS VERIFIED BY VDOT INBASIC WORK ZONE TRAFFIC CONTROL. AN INDIVIDUAL VERIFIED BY VDOT IN INTERMEDIATE WORK ZONE TRAFFIC CONTROL SHALL BE ON-SITE TO PROVIDE SUPERVISION DURING WORK ZONE ADJUSTMENTS OR CHANGES TO TRAFFIC CONTROL DUE TO FIELD CONDITIONS. INDIVIDUALS SHALL HAVE THEIR VERIFICATION CARDS WITH THEM WHILE ON THE WORK SITE.
14. UNLESS OTHERWISE APPROVED IN WRITING BY THE VDOT AREA LAND USE ENGINEER, ALL WORK IN PUBLIC ROADS CLASSIFIED AS "ARTERIAL" OR "COLLECTOR" SHALL BE LIMITED TO THE HOURS OF 9:00 AM TO 3:30 PM, MONDAY THROUGH FRIDAY, IN THE LYNCHBURG DISTRICT. PUBLIC ROADS CLASSIFIED AS "LOCAL" ROADS SHALL HAVE UNRESTRICTED WORK HOURS AND DAYS, UNLESS OTHERWISE DIRECTED BY THE VDOT AREA LAND USE ENGINEER.
15. PERMITTED NON-EMERGENCY WORK WILL NOT BE ALLOWED ON PUBLIC ROADS CLASSIFIED AS "ARTERIAL" OR "COLLECTOR" FROM NOON ON THE PRECEDING WEEKDAY THROUGH THE FOLLOWING STATE OBSERVED HOLIDAYS: NEW YEAR'S DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, THANKSGIVING DAY, AND CHRISTMAS DAY.
16. WORK IN THE VICINITY OF SCHOOL ENTRANCES AND ON SCHOOL ROADS SHOULD BE AVOIDED DURING THE HOURS OF ADMISSION AND DISMISSAL SO AS NOT TO DISRUPT SCHOOL TRAFFIC.
17. NO EQUIPMENT OR MATERIALS SHALL BE STORED ON ROAD SURFACES OR ALLOWED TO OCCUPY THE CLEAR ZONE DURING PERIODS OF INACTIVITY. SEE THE VIRGINIA WORK AREA PROTECTION MANUAL VERSION 11.0 FOR CLEAR ZONE DEFINITIONS.
18. EXCAVATION MATERIALS SHALL BE STORED AWAY FROM PAVED ROADWAYS. ALL SPILLED MATERIALS SHALL BE IMMEDIATELY REMOVED FROM THE TRAVEL SURFACES AND SHOULDERS.
19. MUNICIPAL ROAD SIGNS, DELINEATORS, GUARDRAILS, ETC. SHALL NOT BE REMOVED WITHOUT PRIOR WRITTEN PERMISSION FROM THE APPROVING AUTHORITY.
20. DURING CONSTRUCTION, ALL VDOT DRAINAGE STRUCTURES SHALL BE PROTECTED AGAINST SILTATION BY SEDIMENT TRAPPING DEVICES, PROPERLY INSTALLED IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATIONS AND VIRGINIA DEPARTMENT OF ENVIRONMENTAL (DEQ) STANDARDS. SEDIMENT TRAPPING DEVICES SHALL BE MAINTAINED UNTIL UPSTREAM STABILIZATION HAS BEEN ADEQUATELY ACHIEVED.
21. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL CONFORM TO THE VDOT 2016 ROAD AND BRIDGE STANDARDS, 2020 ROAD AND BRIDGE SPECIFICATIONS, AND THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK.
22. CONTRACTOR IS RESPONSIBLE FOR CONTACTING MISS UTILITY (1-800-552-7001) TO IDENTIFY AND MARK THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES.
23. CONTRACTOR SHALL CONTACT VDOT TRAFFIC ENGINEERING SECTION (DONALD LOGAN: 540-607-5427) A MINIMUM OF 7 DAYS PRIOR TO COMMENCEMENT OF INSTALLATION ACTIVITIES WITHIN 1,000 FEET OF SIGNALIZED INTERSECTIONS, FLASHING SIGNS, OR OTHER VDOT ELECTRICAL FACILITIES. THIS INCLUDES EXCAVATION, TRENCHING, PLOWING, OR BORING.
24. PLACEMENT OF FIBER OPTIC CABLE SHALL BE LIMITED TO THE AREAS OF THE STATE RIGHT-OF-WAY DESCRIBED BELOW:
   - OUTERMOST PORTION OF THE STATE RIGHT-OF-WAY AS ALLOWED BY EXISTING TERRAIN.
   - A MINIMUM OF 3 FEET FROM THE TOE OF FILL SLOPES.
   - A MINIMUM OF 2 FEET FROM THE BREAK POINTS OF SLOPES STEEPER THAN 3:1, UNLESS PUSHED, BORED OR JACKED.
   - FIBER PLACED UNDER PAVED AREAS SHALL BE PUSHED, BORED, OR JACKED.
   - FIBER PLACED WITHIN THE SHOULDER OF THE ROAD SHALL BE INSTALLED AS FOLLOWS:
     a. NO CLOSER THAN 4.0 FEET FROM THE EDGE OF PAVEMENT, OR WHITE LINE, AND NO CLOSER THAN 2.0 FEET FROM THE FACE OF GUARDRAIL.
     b. IF MINIMUM 4.0 AND 2.0 FOOT OFFSETS CANNOT BE ACHIEVED, VDOT LAND USE SECTION POINT OF CONTACT SHALL BE NOTIFIED TO AUTHORIZE ANY DEVIATIONS TO THE PERMITTED ACTIVITY.
     c. IF MINIMUM 4.0 FOOT OFFSET FROM EDGE OF PAVEMENT IS ACHIEVABLE BUT RESULTS IN THE PLACEMENT OF FIBER INSIDE THE ROADSIDE DITCHLINE, BORING WILL BE REQUIRED BENEATH THE DITCH CENTERLINE.
     d. NO CLOSER THAN 3.0 FEET FROM THE BACK OF POST IN GUARDRAIL SECTIONS.
25. FOR AERIAL CROSSINGS, MINIMUM VERTICAL CLEARANCES OF 18 FEET (NON-LIMITED ACCESS) AND 21 FEET (LIMITED ACCESS) SHALL BE MAINTAINED OVER ROADWAYS.
26. ALL BURIED UTILITIES WITHIN LIMITED ACCESS RIGHT-OF-WAY SHALL MAINTAIN A MINIMUM OF 36 INCHES OF COVER.
27. WITH THE EXCEPTION OF TELECOMMUNICATION AND CABLE TELEVISION, ALL BURIED UTILITIES WITHIN NON-LIMITED ACCESS RIGHT-OF-WAY SHALL MAINTAIN A MINIMUM OF 36 INCHES OF COVER. TELECOMMUNICATION AND CABLE TELEVISION FACILITIES BURIED WITHIN NON-LIMITED ACCESS RIGHT-OF-WAY SHALL MAINTAIN A MINIMUM OF 30 INCHES OF COVER.
28. UTILITY MARKERS SHALL BE LOCATED BEYOND THE AREAS OF NORMAL MAINTENANCE ACTIVITIES. THE PREFERRED PLACEMENT LOCATION IS AT THE STATE RIGHT-OF-WAY LINE. IF THIS IS NOT OBTAINABLE, OTHER AREAS MAY INCLUDE BESIDE SIGN POSTS LOCATED BEHIND THE DITCH LINE, IMMEDIATELY BEHIND THE BACK OF GUARDRAIL, OR BUNCHED TIGHTLY TOGETHER WITH EXISTING UTILITY MARKERS OR PEDESTALS.
29. JUNCTION BOXES SHALL MEET OR EXCEED VDOT STANDARDS JB-B1 & R2 AND JB-S1, S2, S3, S4. JUNCTION BOXES INSTALLED BETWEEN EDGE OF PAVEMENT AND DITCHLINE SHALL BE LOAD BEARING IN NATURE AND HAVE CONCRETE COLLARS PER VDOT STANDARD.
30. NO EXCAVATION (OPEN CUTS, PLOWS, BORE PITS, PULL POINTS, COUPLERS, ETC.) WILL BE ALLOWED ON AREAS OF A 3:1 SLOPE OR GREATER WITHOUT PRIOR APPROVAL BY THE VDOT DISTRICT ENGINEER'S DESIGNEE.
31. CONTRACTOR SHALL MAINTAIN AND PROVIDE UPON COMPLETION OF WORK, A SET OF COMPLETE "AS-BUILT" PLANS TO VDOT.
32. ANY ERRORS, CONFLICTS, OR DISCREPANCIES FOUND ON THE APPROVED PLANS SHALL BE REPORTED TO THE UTILITY OWNER. VDOT SHALL BE NOTIFIED FOR RESOLUTION BEFORE PROCEEDING FURTHER WITH THE WORK, IF THE STATE MAINTAINED RIGHT-OF-WAY IS AFFECTED.
33. THE COMMONWEALTH TRANSPORTATION BOARD, MEMBERS OF THE BOARD, THE COMMONWEALTH AND ALL COMMONWEALTH EMPLOYEES, AGENTS, AND OFFICES, SHALL BE ABSOLVED FROM ALL RESPONSIBILITIES, DAMAGES AND LIABILITIES AS A RESULT OF WORK ARISING FROM THE EXERCISE OF THE PRIVILEGES GRANTED BY PLAN AND/OR PERMIT APPROVAL.

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| 2 | 10/14/2026 | ADDENDUM No.1 |
| 1 | 06/26/2026 | AMHERST COUNTY COMMENTS |


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# GENERAL NOTES
FOR
# ROUTE 210 WATER LINE CONNECTION
AMHERST COUNTY, VIRGINIA

| | |
|---|---|
| PROJECT NO. | 20260468 |
| LAT. | 37.425856° |
| LONG. | -79.130077° |
| DATE: | 05/12/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

COMMONWEALTH OF VIRGINIA
WILLIAM C. HODGES
LIC. NO. 060044
10/14/2026
PROFESSIONAL ENGINEER

APPROVED

HURT&PROFFITT

| SHEET NO. | REV. |
|---|---|
| G-002 | ----- |

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION:
THIS PROJECT CONSISTS OF THE INSTALLATION OF APPROXIMATELY 940 LF OF WATER LINE ALONG THE NORTH SIDE OF ROUTE 210 IN AMHERST COUNTY.

EXISTING SITE CONDITIONS:
THE WATER LINE ALIGNMENT LIES WITHIN THE VDOT RIGHT-OF-WAY ALONG THE NORTH SIDE OF ROUTE 210.

ADJACENT PROPERTIES:
THE PROPOSED WORK IS WITHIN THE VDOT RIGHT-OF-WAY. ALL MEASURES SHALL BE TAKEN TO ENSURE THAT THE SITE IS STABILIZED AND NO ADDITIONAL SEDIMENT IS DEPOSITED OFFSITE INTO THE WATERSHED DISTRICT OR SURROUNDING PROPERTIES.

OFFSITE AREAS:
ALL GRADING SHALL OCCUR ON-SITE. ANY ADDITIONAL DIRT BORROWED OR WASTED FROM THE SITE WILL BE EITHER STOCKPILED OR REMOVED FROM A LOCATION CHOSEN BY THE CONTRACTOR AT A LATER DATE.

CRITICAL AREAS:
THE CRITICAL AREA FOR THIS PROJECT WILL BE THE CONNECTIONS AT BOTH ENDS OF THE PROPOSED WATER LINE.

SOILS:
THE SOIL SURVEY MAP FOR AMHERST COUNTY, VIRGINIA, VERSION 19, DATED AUGUST, 2024 INDICATES THAT THIS SITE CONSISTS OF CLIFFORD LOAM, 7 TO 15 PERCENT SLOPES AND CLIFFORD LOAM, 25 TO 50 PERCENT SLOPES.

EROSION AND SEDIMENT CONTROL MEASURES:
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATION OF THE LATEST EDITION OF THE VIRGINIA STORM WATER MANAGEMENT HANDBOOK. THE MINIMUM STANDARDS OF THE HANDBOOK SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY VARIANCE.

SECTION 3.1-SM-09 - TEMPORARY SEEDING
MAINTENANCE:
1. INSPECT SEEDED AREAS EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 0.5 INCH OR MORE OF PRECIPITATION. RESEED ANY BARE AREAS > 500 SQUARE FEET.
2. COVER SEEDED AREA WITH STRAW OR MULCH TO MODERATE SOIL MOISTURE AND TEMPERATURE DURING THE INITIAL GERMINATION PERIOD.
3. SUPPLY TEMPORARY SEEDING WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY IN ABNORMALLY HOT OR DRY WEATHER OR ON DIVERSE SITES. CONTROL WATER APPLICATION RATES TO PREVENT RUNOFF.

SECTION 3.1-SM-10 - PERMANENT SEEDING
MAINTENANCE:
1. EVEN WITH CAREFUL, WELL-PLANNED SEEDING OPERATIONS, FAILURES CAN OCCUR. WHEN PLANTS HAVE NOT GERMINATED ON AN AREA OR HAVE DIED, RESEED. THESE AREAS IMMEDIATELY TO PREVENT EROSION DAMAGE. HOWEVER, IT IS EXTREMELY IMPORTANT TO DETERMINE WHY GERMINATION FAILED AND TAKE ANY CORRECTIVE ACTION NECESSARY BEFORE RESEEDING THE AREA. HEALTHY VEGETATION IS THE MOST EFFECTIVE EROSION CONTROL AVAILABLE.

SECTION 3.1-SM-11 - MULCHING
MAINTENANCE:
1. INSPECT ALL MULCHES AND SOIL COVERINGS PERIODICALLY AND AFTER RAINSTORM EVENTS TO CHECK FOR EROSION. WHERE EROSION IS OBSERVED IN MULCHED AREAS, APPLY ADDITIONAL MULCH. INSPECT NETS AND MATS AFTER RAINSTORMS FOR DISLOCATION OR FAILURE. IF WASHOUTS OR BREAKAGE OCCUR, REINSTALL NETTING OR MATTING AS NECESSARY AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. INSPECT MULCHES UNTIL GRASSES ARE FINALLY ESTABLISHED.
2. WHERE MULCH IS USED IN CONJUNCTION WITH ORNAMENTAL PLANTINGS, INSPECT PERIODICALLY THROUGHOUT THE YEAR (APPROXIMATELY EVERY 3 MONTHS) TO DETERMINE IF MULCH IS MAINTAINING COVERAGE OF THE SOIL SURFACE. REPAIR AS NEEDED.

VEGETATIVE PRACTICES:

TEMPORARY SEEDING / PERMANENT STABILIZATION:
SEEDING MEASURES SHALL BE TAKEN ON DISTURBED SOIL AT CUT / FILL SLOPES, DITCH LINES, OR AREAS OUTSIDE OF ON-GOING CONSTRUCTION PRACTICES WITHIN SEVEN (7) DAYS OF COMPLETED GRADING. ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINAL GRADING.

SITE MAINTENANCE:

1. ALL STRUCTURAL MEASURES ARE TO BE CHECKED WEEKLY AND ESPECIALLY AFTER EACH RAINFALL EVENT TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. ANY DAMAGED OR CLOGGED MEASURE SHALL BE CLEANED OUT OR REPAIRED IMMEDIATELY.
2. ALL SEDIMENT REMOVED FROM THE CONTROL DEVICES SHALL BE RE-SPREAD ON THE SITE ABOVE THE CONTROL DEVICES.
3. VEGETATION SHALL BE CHECKED WEEKLY TO INSURE PROPER AND ADEQUATE COVERAGE. BARE OR WASHED AREAS SHALL BE SCARIFIED AND RESEEDED UNTIL PERMANENT STABILIZATION HAS BEEN ACHIEVED.
4. ONCE SITE HAS ESTABLISHED AND SEDIMENT HAS CEASED TO BE CONVEYED ON THE SITE, ALL SILT FENCE BARRIERS SHALL BE REMOVED FROM THE SITE.
5. OTHER CONTROLS.
   A. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, GARBAGE AND DEBRIS SHALL BE DISCHARGED TO SURFACE WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A CWA SECTION 404 PERMIT.
   B. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, MINIMIZATION OF TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ON THE PAVEMENT WILL BE PREVENTED BY PROPER USE AND MAINTENANCE OF THE CONSTRUCTION ENTRANCES AND CLEANING THE ROAD AT THE END OF EACH DAY.
   C. STORAGE OF ONSITE MATERIALS WILL BE DONE TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER AND SPILL PREVENTION AND RESPONSE.
   D. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM.

INSPECTIONS AND REPORTING:
FACILITY PERSONNEL WHO ARE FAMILIAR WITH THE CONSTRUCTION ACTIVITY, THE BMPS AND THE STORMWATER POLLUTION PREVENTION PLAN WILL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS USED FOR STORAGE MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROLS AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. THESE INSPECTIONS SHALL BE CONDUCTED EVERY 14 DAYS OR WITHIN 48 HOURS OF THE END OF A STORM EVENT THAT IS 0.5 INCHES OR GREATER.

VIII. CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL STABILIZE ALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO ANY GRADING, OR SITE CLEARING ACTIVITIES.
2. INSTALL WATERLINE.
3. TEMPORARY AND PERMANENT SEEDING AND MULCHING TO BE PLACED ON ALL DISTURBED AREAS.
4. CONTRACTOR TO RESTORE ALL AREAS BACK TO EITHER PROPOSED GRADES OR EXISTING CONDITIONS AFTER COMPLETION OF THE PROJECT. ALL DISTURBED AREA, HAUL ROADS, CONSTRUCTION ROADS, LAY DOWN AREA, ETC., SHALL BE RESTORED.
5. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED, AFTER FINAL STABILIZATION OF SITE HAS BEEN ACHIEVED.

EROSION AND SEDIMENT CONTROL MINIMUM STANDARDS
9VAC25-875-560

MS-1: STABILIZATION - 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.

MS-2: STOCKPILES, WASTE, AND BORROW AREAS - DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES 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.

MS-3: PERMANENT VEGETATION - 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, IS MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.

MS-4: FIRST STEP MEASURES - 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.

MS-5: EARTHEN STRUCTURE STABILIZATION - STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

MS-6: TRAPS AND BASINS - 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.

MS-7: CUT AND FILL SLOPES - 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.

MS-8: CONCENTRATED RUNOFF - CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.

MS-9: WATER SEEPS - WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.

MS-10: INLET PROTECTION - 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.

MS-11: OUTLET PROTECTION - 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.

MS-12: WATERCOURSE CONSTRUCTION - 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

MS-13: TEMPORARY VEHICULAR STREAM CROSSING - 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.

MS-14: OTHER WATERCOURSE REGULATIONS - ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

MS-15: BED AND BANK STABILIZATION - THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

MS-16: UTILITY CONSTRUCTION - 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.

MS-17: VEHICULAR TRACKING AND CONSTRUCTION ENTRANCES - 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.

MS-18: TEMPORARY CONTROL REMOVAL - 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 OR VESMP 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.

MS-19: ADEQUATE STORMWATER CONVEYANCE TO ADEQUATE STORMWATER OUTFALL - 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 MANMADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS:

a. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MANMADE 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) 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 MANMADE CHANNELS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP THE STORMWATER'S 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 MANMADE 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 PREDEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PREDEVELOPMENT PEAK RUNOFF RATE FROM A 10-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MANMADE CHANNEL; OR
   (4) PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION, OR OTHER MEASURES THAT IS SATISFACTORY TO THE VESCP OR VESMP 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, THE APPLICANT SHALL OBTAIN APPROVAL FROM THE VESCP OR VESMP AUTHORITY FOR 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 THAT 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 MANMADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (I) OBTAIN 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-YEAR, TWO-YEAR, AND 10-YEAR 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING THE SITE 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 THE SITE WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN THE SITE'S PROPOSED CONDITION, AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MANMADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 62.1-44.15:28 OF THE CODE OF VIRGINIA (VESMA) OR § 62.1-44.15:54 OR 62.1-44.15:65 OF THE CODE OF VIRGINIA (ESCL).
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 CODE OF VIRGINIA (ESCL) AND THIS SUBDIVISION 19 SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE VESMA AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES (I) ARE IN ACCORDANCE WITH PROVISIONS FOR TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA IN 9VAC25-875-480 OR GRANDFATHERING IN 9VAC25-875-490, IN WHICH CASE THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE CODE OF VIRGINIA (ESCL) SHALL APPLY, OR (II) ARE EXEMPT PURSUANT TO § 62.1-44.15:34 D 2 OF THE CODE OF VIRGINIA (VESMA).
n. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-875-580 SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF THIS SUBDIVISION 19.

EROSION AND SEDIMENT CONTROL DEVICES:

PERIMETER EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY AS CONSTRUCTION PROCEEDS, ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS SOON AS POSSIBLE. EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLAN ARE A MINIMUM AND THE PROJECT CONDITION MAY DICTATE ADDITIONAL CONTROL. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

EROSION AND SEDIMENT CONTROL MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL DEVICES FOR THE DURATION OF THE PROJECT. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL TO INSURE THAT ALL DEVICES ARE IN PLACE AND FUNCTIONING AS REQUIRED. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED PER THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. IN GENERAL, IF THE SILT BUILT UP BEHIND A BARRIER BECOMES AS DEEP AS 5 INCHES, THE SILT IS TO BE REMOVED AND THE BARRIER REPAIRED OR REPLACED. AFTER COMPLETION OF THE PROJECT, AND PERMANENT SEEDING HAS BEEN ESTABLISHED, EROSION CONTROL DEVICES AND ANY SILT BUILT UP SHALL BE REMOVED. DISTURBED AREAS DUE TO THIS CLEANUP OPERATION SHALL BE REPAIRED, RESEEDED AND REMULCHED.




| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| 5C | Clifford loam, 7 to 15 percent slopes | 0.4 | 63.8% |
| 5E | Clifford loam, 25 to 50 percent slopes | 0.2 | 36.2% |
| Totals for Area of Interest | | 0.6 | 100.0% |

| | | |
|---|---|---|
| 2 | 10/14/2026 | ADDENDUM No.1 |
| 1 | 06/26/2026 | AMHERST COUNTY COMMENTS |

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# EROSION & SEDIMENT CONTROL NOTES
FOR
# ROUTE 210 WATER LINE CONNECTION
AMHERST COUNTY, VIRGINIA

| | |
|---|---|
| PROJECT NO. | 20260468 |
| LAT: | 37.425856° |
| LONG. | -79.130077° |
| DATE: | 05/12/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

COMMONWEALTH OF VIRGINIA
W. CHRIS HODGES
Lic. NO. 060044
10/14/2026
PROFESSIONAL ENGINEER

APPROVED

HURT&PROFFITT

SHEET NO. G-003
REV. ---

### Table C-SSM-09-2 Liming
**Liming Requirements for Temporary Sites**

| pH Test | Recommended Application of Agricultural Limestone |
|---|---|
| below 4.2 | 3 tons per acre |
| 4.2 to 5.2 | 2 tons per acre |
| 5.2 to 6 | 1 ton per acre |

### Table C-SSM-09-3 Plant Material for Temporary Seeding
**Acceptable Temporary Seeding Plant Materials "Quick Reference for all Regions"**

| Planting Dates | Species | Application Rate (pounds per acre) |
|---|---|---|
| Sept. 1 - Feb. 15 | 50/50 Mix of annual ryegrass (*Lolium multi-florum*) & cereal (winter) rye (*Secale cereale*) | 50 - 100 |
| Feb. 16 - Apr. 30* | Annual ryegrass (*Lolium multi-florum*) | 60 - 100 |
| May 1* - Aug. 31 | German millet (*Setaria italica*) | 50 |

*The shift date for annual rye to German millet should be April 15 for the Piedmont and Coastal Plain, rather than May 1.

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 — TEMPORARY SEEDING — C-SSM-09

### Table C-SSM-10-7 Site-Specific Seeding Mixtures for Piedmont Area

| Site Condition | Seed Mix | Application Rate (pounds per acre) |
|---|---|---|
| Minimum-Care Lawn Commercial or Residential | Turf-Type Tall Fescue: 95-100% | 150 – 200 |
| | Improved Perennial Ryegrass: 0-5% | |
| | Kentucky Bluegrass: 0-5% | |
| High-Maintenance Lawn | Improved (VCIA) Turf-Type Tall Fescue | 150 – 200 |
| General Slope (3:1 to less) | Tall Fescue*** | 50 – 75 |
| | Red Top and/or Hard Fescue | 10 – 20 |
| | White Clover and/or Birdsfoot Trefoil** | 10 – 20 |
| | Seasonal Nurse Crop* | 30 – 40 |
| Low-Maintenance Slope (> 3:1) or Inaccessible Area*** | Tall Fescue | 50 – 75 |
| | Red Top and/or Hard Fescue | 5 – 10 |
| | Annual Lespedeza** | 10 – 15 |
| | White Clover and/or Birdsfoot Trefoil*** | 15 – 20 |
| | Seasonal Nurse/Cover Crop | 20 – 30 |

* Use seasonal nurse crop in accordance with seeding dates as stated below:
- February 16 through April annual rye
- February 16 through April – annual/cereal rye
- May 1 through August 15 – foxtail/German millet
- August 16 through February 15 – annual/cereal rye

** Use legume seed that is properly inoculated with specified Rhizobia. Legumes recommended unless periodic N fertilization is intended. Weeping lovegrass may be added to any slope or low-maintenance mix during warmer seeding periods; add 10 to 20 lbs/acre in mixes.

*** Increase seeding rate if KY-31 is used rather than VCIA/VDOT improved varieties.

Bermudagrass can be added to substitute for Tall or Hard Fescue in the Low Maintenance mixes for the Southern Piedmont, particularly on sandy soils or hot (S and W) facing slopes. May through October, use hulled seed. All other seeding periods, use un-hulled seed.

Note: Seed mixes are suggested and subject to modification based on site-specific conditions by an agronomist or other qualified revegetation professionals. All seed rates expressed as PLS (Pure Live Seed; see Table C-SSM-10-9).

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 — PERMANENT SEEDING — C-SSM-10

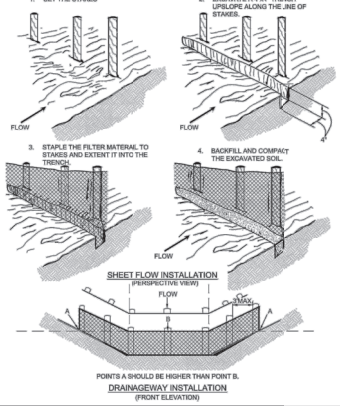
### Table C-SSM-11-5 Organic Mulch Materials and Application Rates

| Mulches | Rates | | Notes |
|---|---|---|---|
| | Per Acre | Per 1,000 sf | |
| Straw or Hay | 1.5 to 2 tons | 70 to 90 lbs. | Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand. Use a minimum of 2 tons per acre for winter cover. |
| Fiber Mulch | 1,500 lbs. | 35 lbs. | Do not use as mulch for winter cover or during hot, dry periods. Apply as slurry. When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./acre or 45 lbs./1,000 sf. |
| Corn Stalks | 4 to 6 tons | 185 to 275 lbs. | Cut or shredded in 4- to 6-inch lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand. |
| Wood Chips | 4 to 6 tons | 185 to 275 lbs. | Free of coarse matter. Air-dried. Treat with 12 lbs. nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand. |
| Bark Chips or Shredded Bark | 50 to 70 cy | 1 to 2 cy | Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand. |

Inspect all mulches and soil coverings periodically and after rainstorm events to check for erosion. Where erosion is observed in mulched areas, apply additional mulch. Inspect nets and mats after rainstorms for dislocation or failure. If washouts or breakage occur, reinstall netting or matting as necessary after repairing damage to the slope or ditch. Inspect mulches until grasses are firmly established.

Where mulch is used in conjunction with ornamental plantings, inspect periodically throughout the year (approximately every 3 months) to determine if mulch is maintaining coverage of the soil surface; repair as needed.

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 — SOURCE: VA. DSWC — MULCHING — C-SSM-11




VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY v1.1 — CONSTRUCTION OF SILT FENCE WITHOUT WIRE SUPPORT — SOURCE: ADAPTED FROM STRAW & FAB. BARRIERS, SHERWOOD & WYANT — C-PCM-04-2B

**DEQ EROSION AND SEDIMENT CONTROL PRACTICES**
**LEGEND**

- (TS) *TEMPORARY SEEDING (C-SSM-09)*
- (PS) *PERMANENT SEEDING (C-SSM-10)*
- (MU) *MULCHING (C-SSM-11)*
- (SF) *SILT FENCE (C-PCM-04)*

| | | |
|---|---|---|
| 2 | 10/14/2026 | ADDENDUM No.1 |
| 1 | 06/26/2026 | AMHERST COUNTY COMMENTS |

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# EROSION & SEDIMENT CONTOL DETAILS
FOR
# ROUTE 210 WATER LINE CONNECTION
AMHERST COUNTY, VIRGINIA

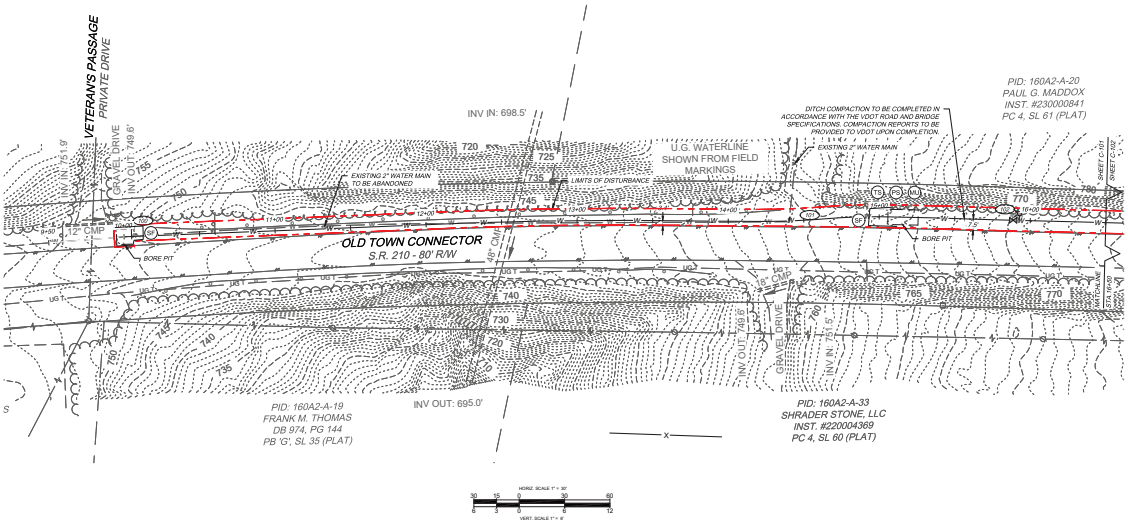
| | |
|---|---|
| PROJECT NO. | 20260469 |
| LAT: | 37.425856° |
| LONG. | -79.130077° |
| DATE: | 05/12/2026 |
| DRAWN BY: | MSF |
| CHECKED BY: | WCH |

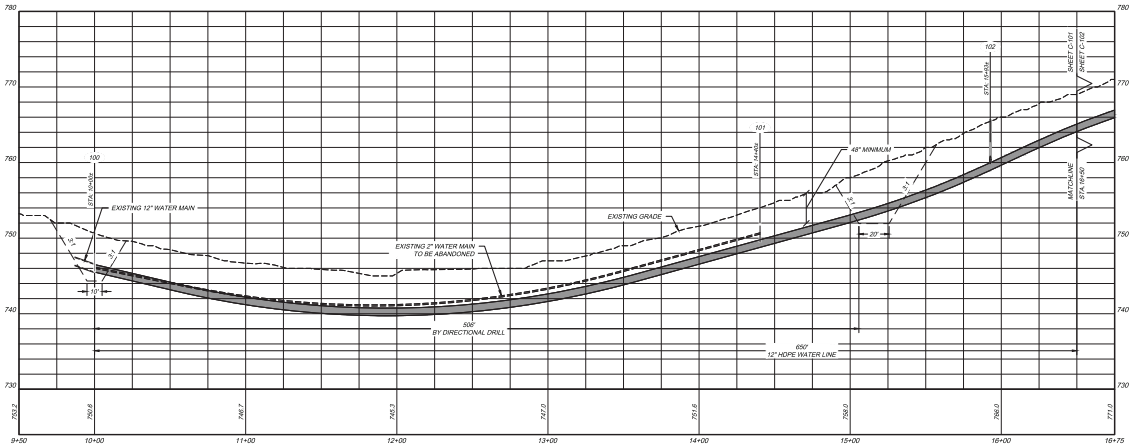
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W. CHRIS HODGES
Lic. NO. 060044
10/14/2026
PROFESSIONAL ENGINEER

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|---|---|
| G-004 | ----- |




PROPOSED WATER LINE

**WATERLINE STRUCTURE SCHEDULE**

100 STA: 10+00±
REQ'D:
REMOVE FITTINGS FOR EXISTING 2" WATER MAIN
CONNECT TO EXISTING FIRE HYDRANT TEE

101 STA: 14+65±
REQ'D:
(1) 2"TAP - CONNECT TO EXISTING 2" WATER MAIN

102 STA: 15+93±
REQ'D:
(1) FIRE HYDRANT ASSEMBLY (ACSA FH-1)
(1) 12" GATE VALVE AND BOX

| | | |
|---|---|---|
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# PLAN & PROFILE
FOR
# ROUTE 210 WATER LINE CONNECTION
AMHERST COUNTY, VIRGINIA

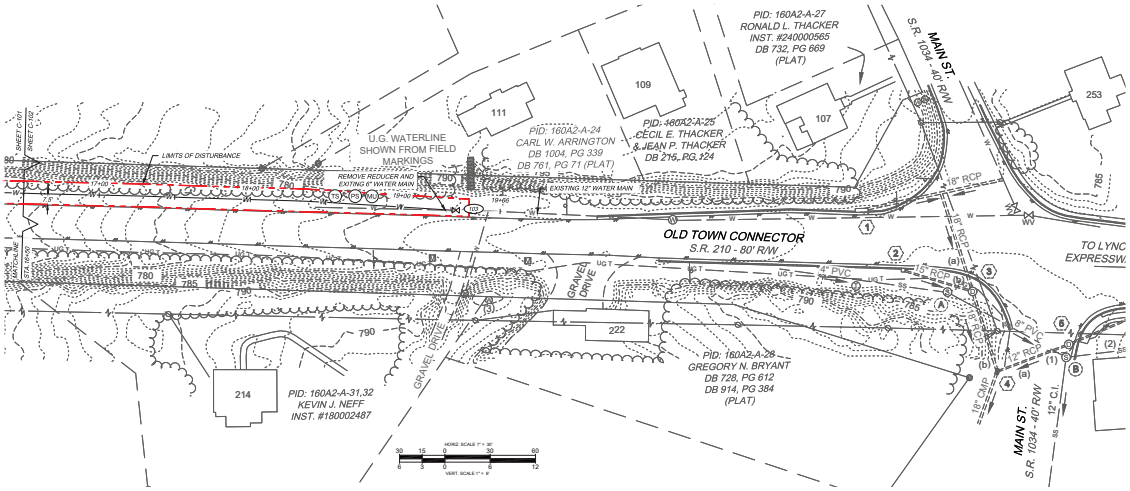
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| PROJECT NO. | 20260468 |
| LAT. | 37.425856° |
| LONG. | -79.130777° |
| DATE: | 05/12/2026 |
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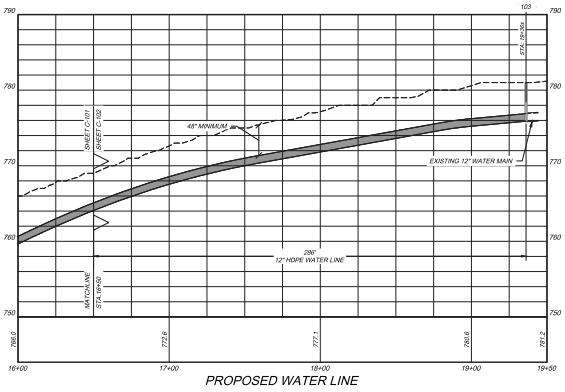
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WATERLINE STRUCTURE SCHEDULE

103 STA. 19+36±
REQ'D:
CONNECT TO EXISTING 12" WATER VALVE

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# PLAN & PROFILE
FOR
# ROUTE 210 WATER LINE CONNECTION
AMHERST COUNTY, VIRGINIA

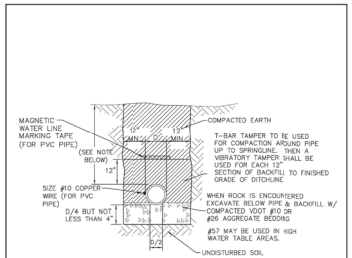
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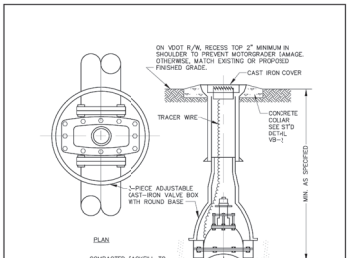

TRENCH BED – WATER MAIN

N.T.S.

REV. 06/22

Service Authority

TB-3



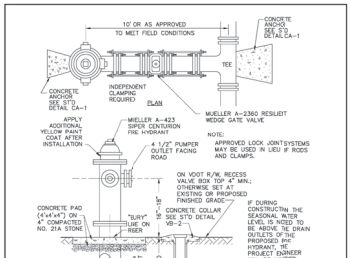

VALVE BOX INSTALLATION

N.T.S.

REV. 06/22

Service Authority

VB-1




FIRE HYDRANT SETTING

N.T.S.

REV. 06/22

Service Authority

FH-1

| | | |
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# WATER LINE DETAILS
FOR
# ROUTE 210 WATER LINE CONNECTION
AMHERST COUNTY, VIRGINIA

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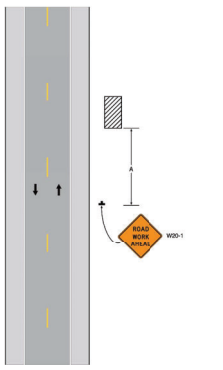
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REV. ---

## Work Beyond the Shoulder
**Figure TTC-1.0 (MUTCD TA-1)**




Note: See Table 6P-2 for the meanings of the symbols used in this figure.
See Table 6P-V5 for sign spacing requirements ("A").
See Tables 6P-V6 through 6P-V7 for taper length requirements.
See Table 6P-V8 for channelizing device spacing requirements.





## Notes for Work Beyond the Shoulder
**(Figure TTC-1.0)** *(MUTCD TA-1)*

**Standard:**

**1. If the work space is in the median of a divided highway, an advance warning sign shall also be placed on the left-hand side of the directional roadway.**

Option:

2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 4 feet behind vertical curb on urban streets, or outside of the clear zone for all other roadways. For clear zone values see VWAPM Appendix A.
4. For short-term, short duration or mobile operation, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. [Paragraph Deleted]

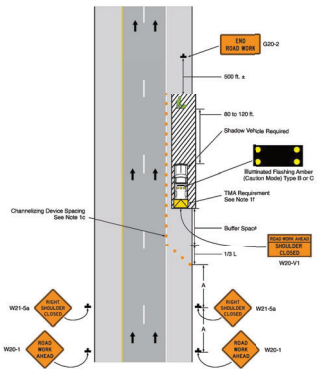
Standard:

**6. Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**





## Stationary Work on a Shoulder
**Figure TTC-4.0 (MUTCD TA-3)**




Note: See Table 6P-2 for the meanings of the symbols used in this figure.
See Table 6P-V5 for sign spacing requirements ("A").
See Tables 6P-V6 through 6P-V7 for taper length requirements.
See Table 6P-V8 for channelizing device spacing requirements.





## Notes for Stationary Work on a Shoulder
**(Figure TTC-4.0)** *(MUTCD TA-3)*

*Guidance:*

*1. [Paragraph Deleted]*

**Standard:**

**1a. For long-term stationary work (more than 3 days) on divided highways having a median wider than 8 feet, sign assemblies on both sides of the roadway shall be required as shown (ROAD WORK AHEAD (W20-1), RIGHT SHOULDER CLOSED AHEAD (W21-5bR), RIGHT SHOULDER CLOSED (W21-5aR)), even though only one shoulder is being closed.**

Option:

1b. Sign assemblies on the side opposite the shoulder closure may be may be omitted if the operation will be 3 days or less in duration.

2. [Paragraph Deleted]
3. [Paragraph Deleted]
4. The SHOULDER WORK (W21-5) sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
5. [Paragraph Deleted]
6. [Paragraph Deleted]

**Standard:**

**7. [Paragraph Deleted]**
**8. [Paragraph Deleted]**
**9. See Table 6P-V5 for Taper Lengths and Table 6P-V8 for channelizing device spacing.**
**10. On roadways with paved shoulders having a width of 8 feet or more, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the traveled way.**
**11. The buffer space length shall be as shown in Table 6P-V4 for the posted speed limit.**
**12. A truck-mounted attenuator (TMA) shall be used on the shadow vehicle on Limited Access highways and multi-lane roadways with posted speed limit equal to or greater than 45 mph for operations with a duration greater than 60 minutes.**
**13. When a side road intersects the highway within the temporary traffic control zone, additional traffic control devices shall be placed as needed.**



### NARRATIVE

*THE SCOPE OF WORK FOR THIS PROJECT INCLUDES INSTALLATION WATER LINE PRIMARILY WITHIN THE VDOT RT 210 RIGHT-OF-WAY AND MAKING A CONNECTION TO AN EXISTING WATER LINE WITHIN THE RIGHT-OF-WAY.*

### GENERAL NOTES

1. Estimate 2 week(s) required to complete the work within VDOT right of way.
2. Contractor is responsible for notifying Regional Traffic Operations Center at (540) 375-0170 upon entering and exiting the roadway.
3. VDOT Land Use Regulations require that work within the right of way be performed during non-peak hours of 9:00 AM to 3:30 PM Monday – Friday on all public roads classified as "arterial" or "collector", unless otherwise approved by VDOT.
4. All public roads classified as "local" roads are allowed unrestricted work hours and days.
5. Permitted nonemergency work will not be allowed on public roads classified as "arterial" or "collector" from noon on the preceding workday through the following state observed holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day.
6. Provisions shall be taken to ensure the safe passage of emergency vehicles at all times.
7. Work zones requiring flagging operations at signalized intersections shall involve coordination with law enforcement agencies and VDOT prior to work commencing.
8. All traffic control devices used shall conform to:
   a. The Virginia Work Area Protection Manual Version 11.0.
   b. The Virginia Manual on Uniform Traffic Control Devices Version 11.0.
   c. The National Cooperative Highway Research Program (NCHRP) Report 350.

### PUBLIC COMMUNICATIONS PLAN**

**This section only necessary if detour is proposed, or if significant impacts to traffic are expected.

### TRANSPORTATION OPERATIONS PLAN

1. The process to notify the Regional Traffic Operations Center (TOC) of planned lane closures on Virginia Traffic Information Management System (VaTraffic) is:
   a. The Contractor shall notify the TOC at (540) 375-0170 of all planned lane closure information by 8:00 a.m. of the Thursday prior to the week the lane closure is to be executed.
   b. The Contractor shall submit planned lane closure information to VDOT Permit Specialist Daniel Newland at (434) 141-6883 by 8:00 a.m. of the Thursday prior to the week the lane closure is to be executed
   c. The Contractor shall notify the TOC, by a method or system specified by VDOT, thirty (30) minutes before a planned or approved lane, road, or shoulder closure is installed and within thirty (30) minutes after the closure is removed.
   d. The TOC operator will enter closure data in VaTraffic and monitor lane closure information.
   e. The Contractor shall notify the TOC at (540) 375-0170 of all traffic backups related to the lane closure.

### INCIDENT RESPONSE

### INCIDENT RESPONSE

The following is a list of local emergency contact agencies:

- Emergency: 911
- Virginia State Police: 1 (800)552-0962 or (434) 946-7101
- Amherst County Sheriff: (434) 946-9381
- Haz-Mat Center (if spill involved): 911

Procedures to respond to traffic incidents that may occur in the Work Zone:

- Contractor to notify Virginia State Police (VSP).
- Contractor to notify VDOT Permit Specialist Patricia Martin, at (434) 856-8152.
- Depending upon severity of incident, Contractor may be required to shut down work.
- Upon arrival on scene, VSP will take control of the incident and direct its clearing and restoration to normal traffic conditions.
- VDOT Permit Specialist will notify the Traffic Operations Center, Appomattox Assistant Resident Engineer, District Work Zone Safety Coordinator and District Safety Manager of incident and take pictures as necessary, especially pictures of work zone to document the setup

Process of notification of incident, to be followed by VDOT Permit Specialist, is to notify:

- Appomattox Assistant Resident Engineer: Daniel Brown (434) 215-9162
- District Work Zone Safety Coordinator: Danny Cruff (540) 309-8699
- District Safety Manager: Amanda Wilmink (434) 841-4225
- District Traffic Engineer: Donsil Logan (540) 607-6427
- District Communications Manager: Len Stevens (434) 856-8176

The State Police Report of the incident will be reviewed by the District Work Zone Safety Coordinator to determine if any modification of the Temporary Traffic Control Plan is necessary. If it is determined that it is necessary to alter the plan, then a meeting will be called with the Responsible Charge Engineer, District Safety Manager, District Traffic Engineering representatives and the State Police (if necessary) to discuss modification and implementation of an improved traffic control plan.

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# VDOT DETAILS
FOR
# ROUTE 210 WATER LINE CONNECTION
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