



ROANOKE COUNTY

Purchasing Division

5204 Bernard Drive, Suite 300-F, P.O. Box 29800
Roanoke, Virginia 24018-0798
TEL: (540) 772-2061 FAX: (540) 772-2074

January 20, 2022

ADDENDUM NO. 1 TO ALL BIDDERS/OFFERRORS:

Reference – IFB #2022-060

Description: Mount Pleasant Library Sewer Extension

Issue Date: January 7, 2022

Proposal Due: February 2, 2022

The above Project is hereby changed as addressed below:

1. Extension of Due Date: Please note that the due date has been extended. Sealed bids are now due to the Purchasing office no later than Wednesday, February 2, 2022 at 2:00 PM local time.
2. Clarifications to Specifications: the following information is offered in order to clarify various specifications; or to answer questions or concerns posed at the pre-bid conference.
 - a. Fire Department lot use by Contractor: Contractor may use up to 25' of the fire station parking lot adjacent to SR 116 on the south end. Contractor shall ensure that operations do not interfere with the fueling station, which must be accessible to the Fire Department at all times. See Exhibit 1 to this addendum for updated plans.
 - b. Staging locations: to be established on the roadway closest the Library. Use of the area in front of the garage door, 20 feet wide; and use of the area in back of the Library, is permitted. Staging may not block access to the gate.
 - c. Library Access: Contractor's staging and work shall not block access to the library for patrons or staff at any time during the following hours:
 - Monday, 9:00 am – 5:00 pm
 - Tuesday, 12:00 pm – 6:00 pm
 - Wednesday, 9:00 am – 5:00 pm
 - Thursday, 12:00 pm – 8:00 pm
 - Friday, 9:00 am – 5:00 pm
 - Saturday, 9:00 am – 3:00 pm
- d. Tree Removal: Per VDOT, trees may be cut. Trees within the right of way should not be replaced. Stumps must be ground down below grade.
- e. Traffic regulation and signaling with VDOT: VDOT has approved the traffic

management details in the IFB. The County will obtain the Land Use Permit for the project, and the Contractor will be required to abide by the conditions of that permit. Please note: this is a correction to Sheet 2 of 6 of the project drawings (Project Description, Item 1).

- f. The following changes are proposed for the sewer crossing under Rt. 116: The Contractor may, at his option, use a directional bore approach to install the 8" HDPE sewer under SR 116, and omit the steel casing (which is required for conventional bore and jack) in accordance with all applicable VDOT and WVWA requirements.
- g. Bid Bonds: bid bonds are required for all construction projects, per the terms included in IFB 2022-060. Performance and payment bonds are required upon award for any contract exceeding \$100,000.00. See Section 7. H., p. 9 of IFB 2022-060 for full specifications.
- h. Material Availability: There will be no liquidated damages established in the resulting contract. However, Roanoke County expects the awarded contractor to perform the work as expediently as possible. Any material delivery delays should be promptly communicated to the County; an extension of the contract completion time will be approved and processed accordingly, as needed.

3. Updated Project Drawings: Please see attached as Exhibit 1 to this Addendum, updated project drawings. When in conflict, these updated drawings shall supersede those previously provided with IFB 2022-060.
4. Pre-Bid Conference Sign in Log: please see attached as Exhibit 2, a copy of the sign-in log from the non-mandatory pre-bid conference held on January 13, 2022.

Note: A signed acknowledgment of this addendum must be received at the location indicated on the original solicitation either prior to the proposal due date or attached to your proposal. Signature on this addendum does not substitute for your signature on the original proposal/bid document. The original proposal/bid document must be signed.

Thank you,

Kate Hoyt
Phone: (540) 283-8149
KHoyt@roanokecountyva.gov

Sign Name:

Print Name:

Name of Firm:

Date:

GENERAL EROSION AND SEDIMENT CONTROL NOTES	
1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.	
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.	
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS PRACTICAL.	
4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.	
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.	
6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. THESE SYMBOLS AND KEYS ARE TO BE UTILIZED ON ALL EROSION CONTROL PLANS SUBMITTED TO ROANOKE COUNTY.	
7. THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREAS ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY DEPARTMENT OF DEVELOPMENT SERVICES. AN EROSION CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.	
8. THIS SHEET MAY NOT BE MODIFIED EXCEPT FOR TABLES.	
TOTAL DISTURBED AREA = 0.0994 AC. = 4,332 SQ. FT.	

BMP INFORMATION TABLE

BMP TYPE	BMP #1
NAME OF AUTHORIZED NUTRIENT BANK	—
REQUIRED PHOSPHORUS TO BE REMOVED (LB/YR)	LBS
AMOUNT OF PHOSPHORUS PURCHASED (LB/YR)	LBS
TECHNICAL REQUIREMENT MET (PART 11B OR 11C)	—
TOTAL AREA TREATED (AC)	—
IMPERVIOUS AREA TREATED BY BMP (AC)	—
MANAGED TURF AREA TREATED BY BMP (AC)	—
OPEN SPACE/FORESTED AREA TREATED BY BMP (AC)	—
SURFACE AREA OF BMP (AC)	—
STORAGE VOLUME OF BMP (AC)	—
QUALITY, QUANTITY, OR BOTH?	—
TMOL ADDRESSED? (PHOSPHORUS, BACTERIA, SEDIMENT, ETC)	—
NAME OF RECEIVING WATER (PROJECT SITE)	—
HYDROLOGIC UNIT CODE FOR PROJECT SITE (ALPHANUMERIC CODE RU14, ETC)	—
MAXIMUM AVERAGE DEPTH (FT)	—
LATITUDE (DECIMAL DEGREES XX.XXXX)	—
LONGITUDE (DECIMAL DEGREES XX.XXXX)	—

	EXISTING	PROPOSED
TOTAL DISTURBED AREA (AC)	—	—
TOTAL SITE (AC)	—	—
IMPERVIOUS AREA (AC)	—	—
MANAGED TURF AREA (AC)	—	—
OPEN SPACE/FOREST (AC)	—	—
PUBLIC RIGHT OF WAY DISTURBANCE (SF)	—	—
KARST PRESENT (Y/N)	—	—

MODIFIED VIRGINIA CODING SYSTEM FOR EROSION & SEDIMENT CONTROL PRACTICES

REFER TO SHEET 5 FOR DETAILS OF IMPLEMENTED MEASURES

NO	TITLE	KEY	SYMBOL	NO	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF		3.21	LEVEL SPREADER	LS	
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	CE		3.22	VEGETATIVE STREAMBANK STABILIZATION	VSS	
3.03	CONSTRUCTION ROAD STABILIZATION	CRS		3.23	STRUCTURAL STREAMBANK STABILIZATION	SSS	
3.04	STRAW BAILE BARRIER	STB		3.24	TEMPORARY VEHICULAR STREAM CROSSING	VSC	
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3.08	CULVERT INLET PROTECTION	CIP		3.28	SUBSURFACE DRAIN	SD	
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3.12	DIVERSION	DV		3.32	PERMANENT SEEDING	PS	
3.13	TEMPORARY SEDIMENT TRAP	ST		3.33	SODDING	SO	
3.14	TEMPORARY SEDIMENT BASIN	SB		3.34	BERMUDA GRASS AND ZOYSIAURASS ESTABLISHMENT	B_M	
3.15	TEMPORARY SLOPE DRAIN	TSD		3.35	MULCHING	MU	
3.16	PAVED FLUME	PF		3.36	SOIL STABILIZATION BLANKETS AND MATTING	PSF	
3.17	STORMWATER CONVEYANCE CHANNEL	SCC		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	VEG	
3.18	OUTLET PROTECTION	OP		3.38	TREE PRESERVATION AND PROTECTION	TP	
3.19	RIPRAP	RR		3.39	DUST CONTROL	DC	
3.20	ROCK CHECK DAMS	CD					

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION: THE PURPOSE OF THIS PROJECT IS TO EXTEND A NEW SEWER MAIN WITHIN THE ROANOKE COUNTY SERVICE AREA. THE TOTAL ESTIMATED PROJECT DISTURBANCE AREA IS 4,332 SF (0.09 AC). THE AREA CALCULATION IS BASED ON THE INSTALLATION OF 291 LF OF SEWER MAIN WITHIN A 10 FOOT WIDE DISTURBANCE. SPECIFICALLY, 1,363 SF (0.031 AC) IS WITHIN THE EXISTING HARD SURFACE AND 2,969 SF (0.068 AC) IS OUTSIDE THE EXISTING HARD SURFACE. THEREFORE, THE PROJECT'S LAND DISTURBING ACTIVITIES HAS BEEN DETERMINED TO BE EXEMPTED FROM THE VESCL, § 62-144.15.51&55) AS AN EXTENSION OF AN EXISTING UNDERGROUND PUBLIC UTILITY LINE THAT IS CONFINED TO AN EXISTING HARD-SURFACE URBAN STREET.

EXISTING SITE CONDITIONS: THE LIMITS OF DISTURBANCE IS LOCATED WITHIN VDOT RIGHT-OF-WAY AND THE SUBJECT PROPERTY IDENTIFIED AS ROANOKE COUNTY TAX PARCEL #79.01-04-22.00 AND IS THE ROANOKE COUNTY MOUNT PLEASANT LIBRARY. THE SITE IS CURRENTLY A MIX OF GRAVEL PARKING AND GRASSED SHOULDER AREA. THE ENTIRE SITE DRAINS INTO THE ADJACENT DRAINAGE DITCH. THERE ARE CURRENTLY NO KNOWN EROSION PROBLEMS RELATED TO THE PROJECT AREA.

ADJACENT PROPERTY: THE PROJECT AREA IS BOUNDED BY VDOT R/W TO THE NORTH, TAX # 79.01-03-26.00 TO THE EAST, VDOT RIGHT-OF-WAY TO THE SOUTH, TAX # 79.01-04-22.00 TO THE WEST.

OFFSITE AREAS: THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, TO THE COUNTY OF ROANOKE:

- THE LOCATION OF ANY OFFSITE BORROW AREAS.
- THE LOCATION OF ANY OFFSITE AREAS WHERE EXCESS EXCAVATED MATERIAL WILL BE DISPOSED.

SOILS: THE "WEB SOIL SURVEY" AS PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE IDENTIFIES THE SOILS ON SITE AS 29C HAYESVILLE, 2 TO 15 PERCENT SLOPE, WHICH IS URBAN LAND COMPLEX SOIL GROUP B.

Critical Areas: CRITICAL AREAS FOR THIS PROJECT INCLUDE ALL AREAS ADJACENT TO RTE. 116. SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT THESE AREAS HAVE ADEQUATE EROSION CONTROL AND THAT SEDIMENT TRANSPORT FROM THE PROPERTY IS MINIMIZED.

EROSION AND SEDIMENT CONTROL MEASURES: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION (VESCH). THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS DIRECTED BY THE LOCAL PROGRAM ADMINISTRATOR.

STRUCTURAL-

CONSTRUCTION ENTRANCE-Std. 3.02 a stone pad, located at points of vehicular ingress and egress to the construction site, to reduce the soil transported onto public roads and other paved areas.

SILT FENCE. 3.05 a temporary sediment barrier consisting of a synthetic filter fabric stretched across and attached to supporting posts and entranced to intercept and detain small amounts of sediment from disturbed areas.

CULVERT INLET PROTECTION. 3.08 shall be installed as shown on the erosion and sediment control plan in conformance with vesch std. & spec. or vwwa asds culvert inlet protections are provided in order to filter runoff before it enters a storm drain system.

DEWATERING STRUCTURE. 3.26 a temporary settling and filter device for water which is discharged from dewatering activities, used to filter sediment-laden water prior to the water being discharged offsite.

VEGETATIVE-

TEMPORARY SEEDING. 3.31 establishment of temporary vegetative cover on disturbed areas by seeding with appropriate rapidly growing annual plants to reduce erosion by stabilizing disturbed areas that will not be brought to final grade for a period of more than 14 days.

PERMANENT SEEDING. 3.32 establishment of perennial vegetative cover on disturbed areas by planting seed to reduce erosion and decrease sediment yield from disturbed areas.

MULCHING. 3.35 application of plant residues or other suitable materials to the soil surface. Mulching will prevent erosion by protecting the soils surface from raindrop impact and reducing the velocity of overland flow. After seeding, mulching will foster the growth of vegetation by increasing available moisture and providing insulation against extreme heat and cold.

DUST CONTROL. 3.39 the application of measures to prevent surface and air movement of dust from exposed soil surfaces and reduce the presence of airborne substances which may present health hazards, traffic safety problems or harm animal or plant life.

MANAGEMENT STRATEGIES:

A.) CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

B.) SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING.

C.) THE LOCAL PROGRAM ADMINISTRATOR RESERVES THE RIGHT TO ADD TO, DELETE OR OTHERWISE CHANGE THE EROSION CONTROL MEASURES AS DEEMED NECESSARY DUE TO ACTUAL FIELD CONDITIONS BY WRITTEN NOTIFICATION TO THE CONTRACTOR.

D.) ALL FILL AND CUT SLOPES SHALL BE SEDED WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE.

E.) ONLY AFTER INSPECTION AND APPROVAL FROM THE LOCAL PROGRAM ADMINISTRATOR, EROSION AND SEDIMENT CONTROL DEVICES MAY BE REMOVED FOLLOWING THE STABILIZATION OF THE CONTRIBUTING AREAS.

THE WWA SHALL INSPECT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND THE AREA OF CONSTRUCTION VEHICLE ACCESS AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN 48 HOURS OF THE END OF A STORM EVENT PRODUCING 1/2" OR GREATER OF PRECIPITATION, WHERE AREAS HAVE BEEN FINALLY OR TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (SITE IS COVERED WITH, ICE, OR FROZEN GROUND EXISTS) SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.

A.) INSPECT DISTURBED AREAS AND AREAS OF MATERIALS STORAGE THAT ARE EXPOSED TO PRECIPITATION FOR EVIDENCE OF, OR THE POTENTIAL FOR SEDIMENT ENTERING THE STORM DRAIN SYSTEM. INSPECT E&S CONTROLS IN ACCORDANCE WITH REQUIREMENTS STATED HEREIN, AND INSPECT POINTS OF STORM DRAIN DISCHARGE FOR EXCESSIVE SEDIMENTATION. CORRECT SITE CONTROLS AS IS REQUIRED TO REDUCE SEDIMENTATION OF STORM DRAINED, CULVERTS, AND RECEIVING CHANNELS.

B.) IF CONTROLS OR SEDIMENT PREVENTION AREAS ARE FOUND TO BE IN NEED OF REPAIR OR MODIFICATION, THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OR MODIFICATION TO EXISTING MEASURES AS REQUIRED. ANY ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES SHALL BE RECORDED AS FIELD REVISIONS TO THESE PLANS. IN THE EVENT THAT ADDITIONAL CONTROLS ARE FOUND TO BE REQUIRED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE CONTROLS BEFORE THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICAL, THEY SHALL BE IMPLEMENTED AS SOON AS PRACTICAL.

C.) A REPORT SUMMARIZING THE SCOPE OF INSPECTIONS, NAME OF INSPECTOR, INSPECTOR'S QUALIFICATIONS, DATES OF INSPECTIONS, MAJOR OBSERVATIONS PERTAINING TO THE IMPLEMENTATION OF THESE EROSION CONTROL PLANS, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS A PART OF THESE PLANS. MAJOR OBSERVATIONS OF THESE REPORTS SHALL INCLUDE: THE LOCATIONS OF EXCESSIVE SEDIMENTATION FROM THE SITE; LOCATIONS OF CONTROLS IN NEED OF REPAIR; LOCATION OF FAILED OR INADEQUATE CONTROLS; AND LOCATIONS WHERE ADDITIONAL CONTROLS ARE NEEDED.

STORMWATER MANAGEMENT:

STORMWATER QUANTITY REQUIREMENTS WILL BE MET BY **SHEETFLOWS TO EXISTING DRAINAGE CHANNEL**

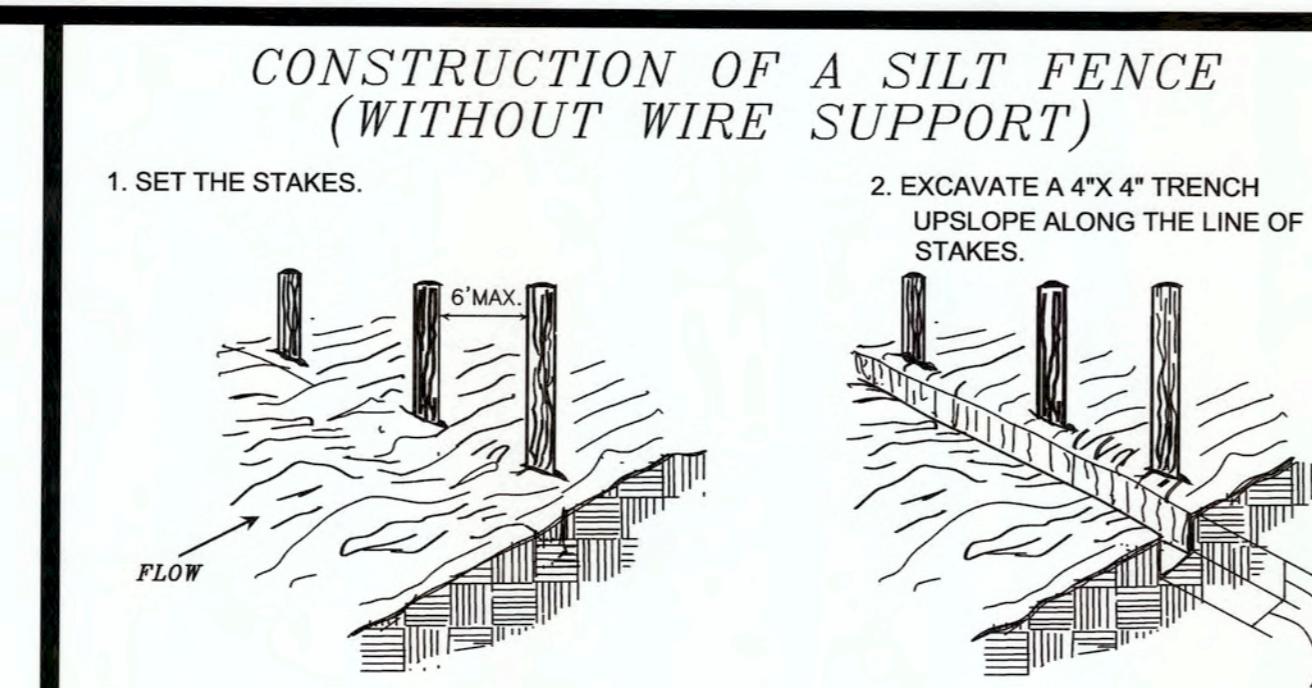
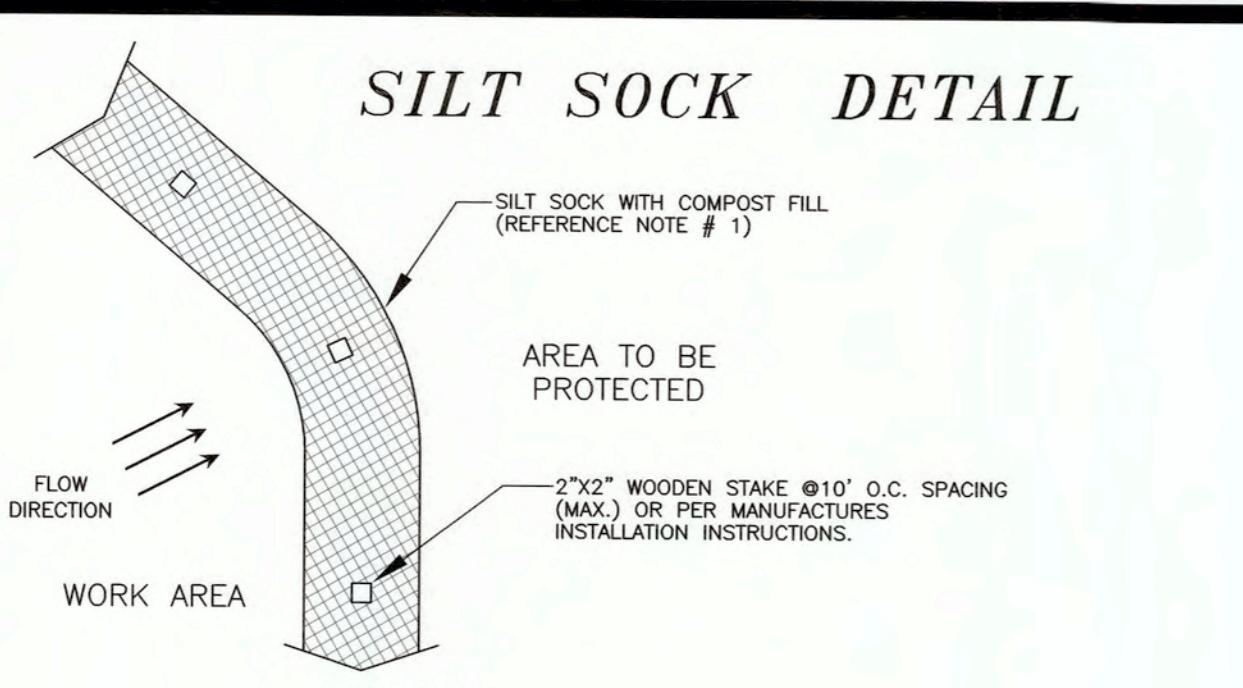
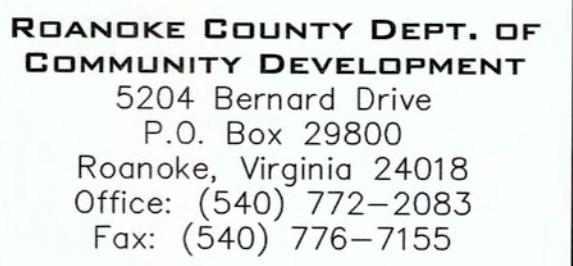
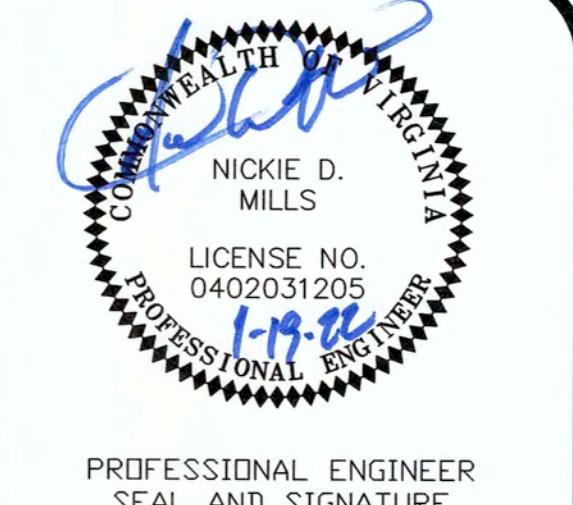
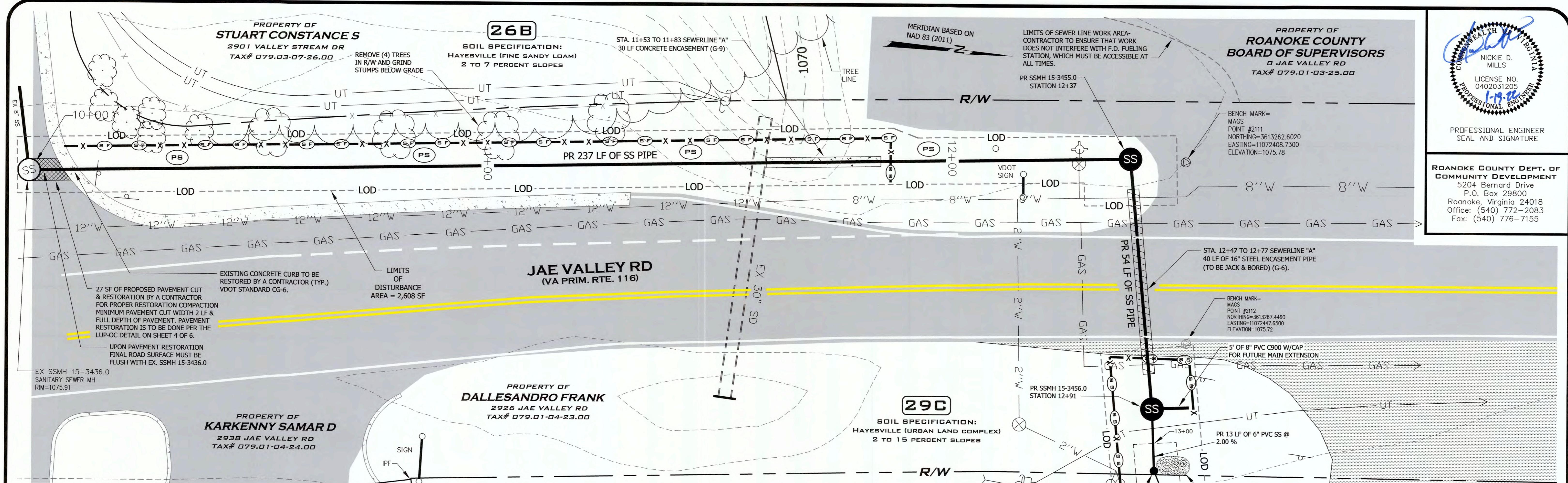
STORMWATER QUALITY REQUIREMENTS WILL BE MET THROUGH **NOT APPLICABLE**



MINIMUM STANDARDS

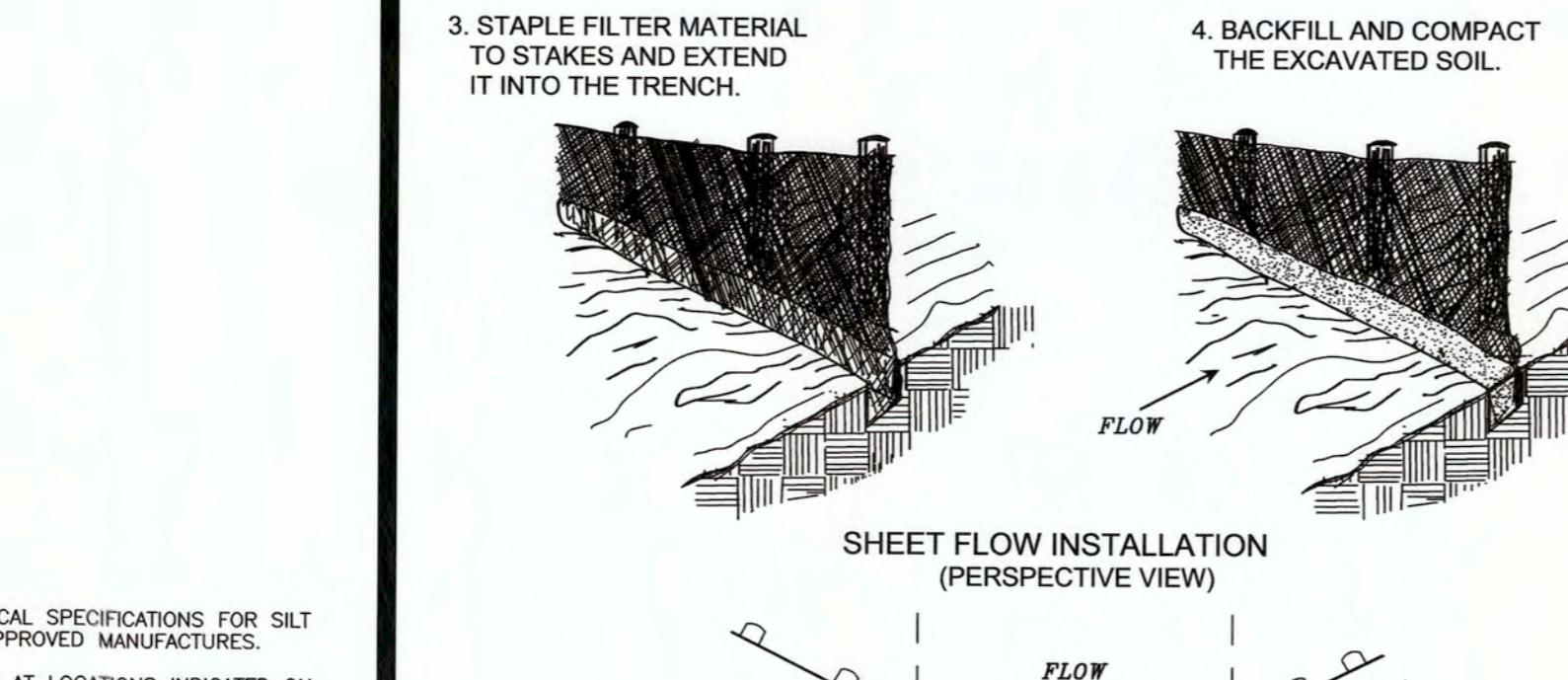
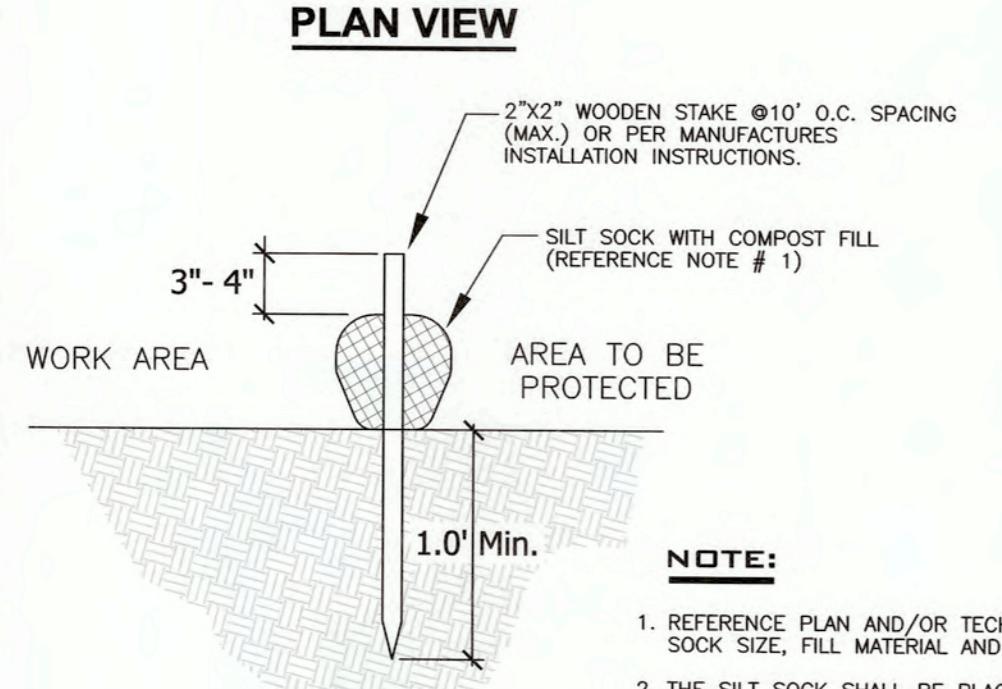
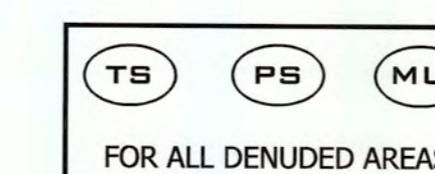
THE FOLLOWING STANDARDS ARE TO BE PROVIDED OR ADDRESSED ON EVERY DEVELOPMENT PROJECT EXCEEDING 10,000 S.F. IN AREA OF DISTURBANCE. THESE STANDARDS ARE CONSIDERED A MINIMUM AND MAY REQUIRE ADDITIONAL MEASURES AS DEEMED NECESSARY BY THE LOCAL PROGRAM AUTHORITY OR THE CONSULTING ENGINEER.

NO.	CRIERIA, TECHNIQUE OR METHOD	PRACTICES PROVIDED
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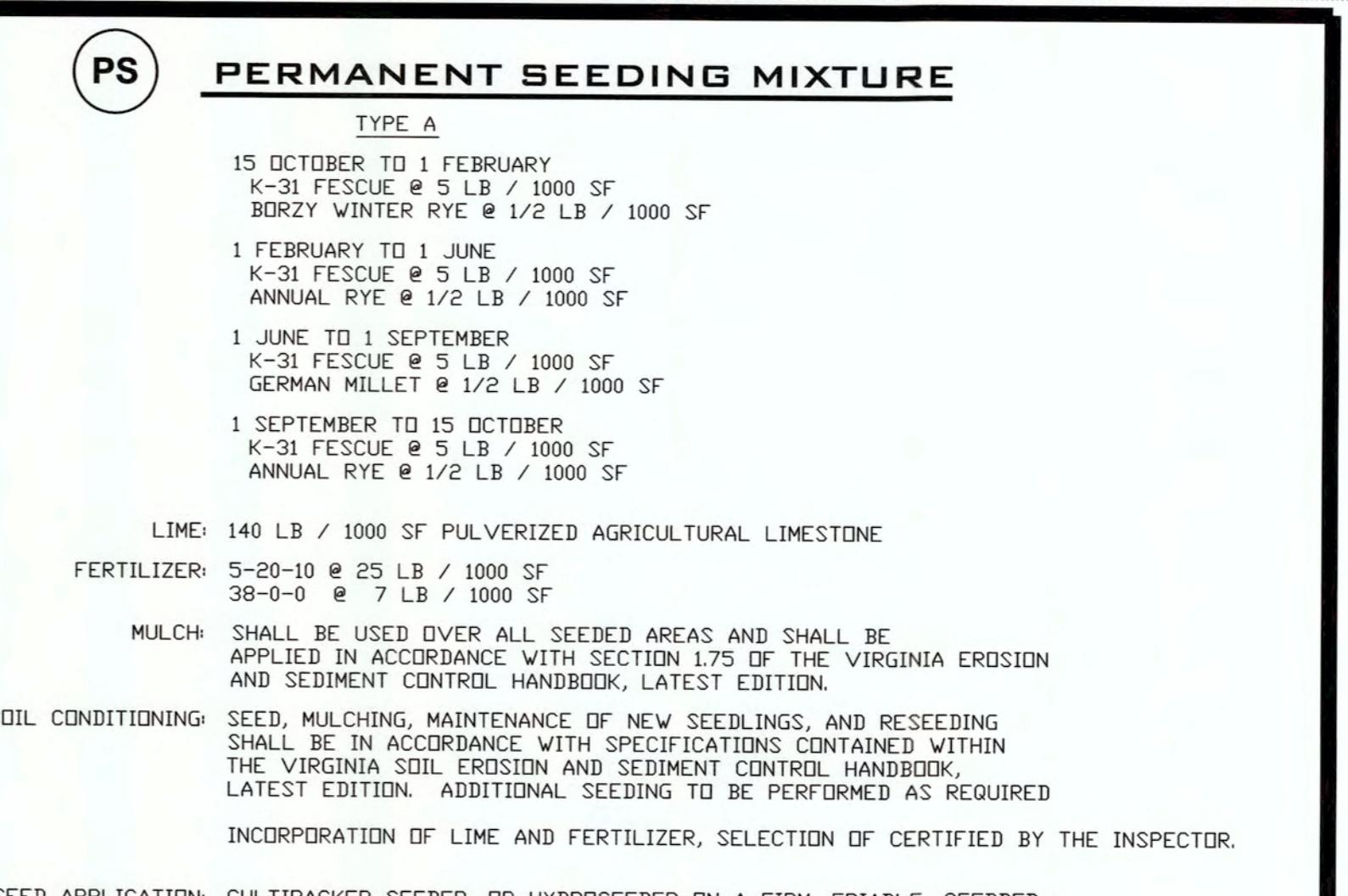
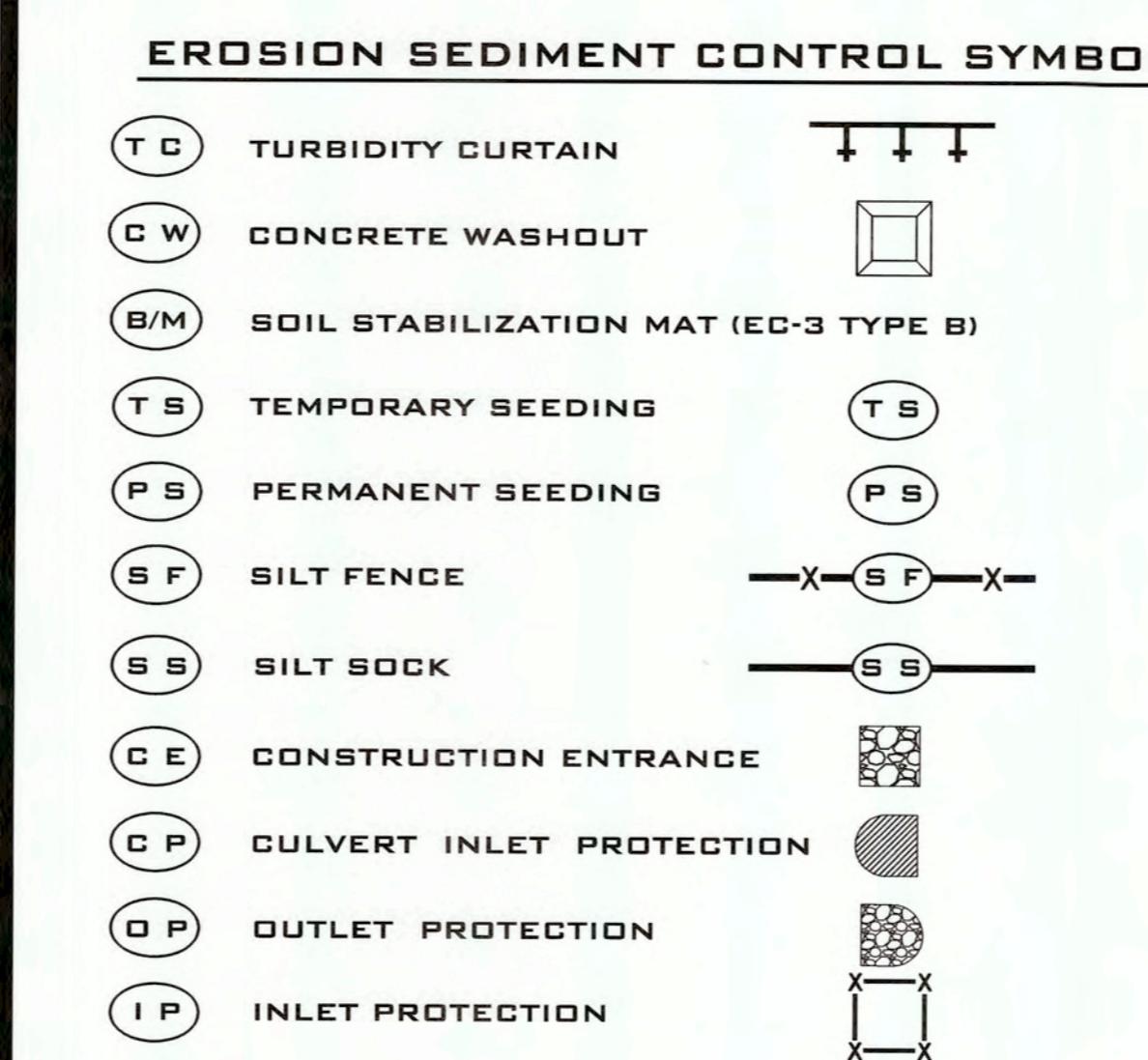


THIS POINT EROSION SEDIMENT CONTROL PLAN

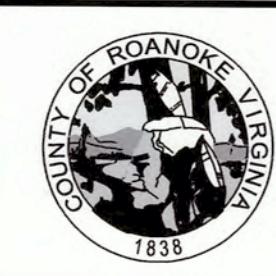
SCALE: 1" = 1



1. REFERENCE PLAN AND/OR TECHNICAL SPECIFICATIONS FOR SILT SOCK SIZE, FILL MATERIAL AND APPROVED MANUFACTURES.
2. THE SILT SOCK SHALL BE PLACED AT LOCATIONS INDICATED ON PLANS AND SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA.
3. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A WORKING EROSION CONTROL SYSTEM AND MAY, WITH APPROVAL OF THE OWNERS REPRESENTATIVE, WORK OUTSIDE THE MINIMUM CONSTRUCTION REQUIREMENTS AS NEEDED.
4. THE CONTRACTOR SHALL MAINTAIN THE SILT SOCK IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE SILT SOCK WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE DEVICE OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
6. THE COMPOST FILL WILL BE DISPERSED ON SITE WHEN NO LONGER



TOTAL DISTURBED AREA = 0.0994 AC. = 4,332 SQ. FT.



DEPARTMENT OF DEVELOPMENT SERVICES

1		
2		
3		
4		
5		
6		
NO	REVISIONS	DATE

MOUNT PLEASANT LIBRARY SEWER EXTENSION

DATE: 1/19/2022

SCALE: 1" = 10'

DRAWING BY: BWE

DESIGNED BY: NDM/BWE



EROSION & SEDIMENT CONTROL PLAN

SHEET
5
OF
6

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3.13	TEMPORARY SEDIMENT TRAP	ST		3.33	SODDING	SO	
3.14	TEMPORARY SEDIMENT BASIN	SB		3.34	BERMUDA GRASS AND ZOYSIAURASS ESTABLISHMENT	B_M	
3.15	TEMPORARY SLOPE DRAIN	TSD		3.35	MULCHING	MU	
3.16	PAVED FLUME	PF		3.36	SOIL STABILIZATION BLANKETS AND MATTING	PSF	
3.17	STORMWATER CONVEYANCE CHANNEL	SCC		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	VEG	
3.18	OUTLET PROTECTION	OP		3.38	TREE PRESERVATION AND PROTECTION	TP	
3.19	RIPRAP	RR		3.39	DUST CONTROL	DC	
3.20	ROCK CHECK DAMS	CD					

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION: THE PURPOSE OF THIS PROJECT IS TO EXTEND A NEW SEWER MAIN WITHIN THE ROANOKE COUNTY SERVICE AREA. THE TOTAL ESTIMATED PROJECT DISTURBANCE AREA IS 4,332 SF (0.09 AC). THE AREA CALCULATION IS BASED ON THE INSTALLATION OF 291 LF OF SEWER MAIN WITHIN A 10 FOOT WIDE DISTURBANCE. SPECIFICALLY, 1,363 SF (0.031 AC) IS WITHIN THE EXISTING HARD SURFACE AND 2,969 SF (0.068 AC) IS OUTSIDE THE EXISTING HARD SURFACE. THEREFORE, THE PROJECT'S LAND DISTURBING ACTIVITIES HAS BEEN DETERMINED TO BE EXEMPTED FROM THE VESCL, § 62-144.15.51&55) AS AN EXTENSION OF AN EXISTING UNDERGROUND PUBLIC UTILITY LINE THAT IS CONFINED TO AN EXISTING HARD-SURFACE URBAN STREET.

EXISTING SITE CONDITIONS: THE LIMITS OF DISTURBANCE IS LOCATED WITHIN VDOT RIGHT-OF-WAY AND THE SUBJECT PROPERTY IDENTIFIED AS ROANOKE COUNTY TAX PARCEL #79.01-04-22.00 AND IS THE ROANOKE COUNTY MOUNT PLEASANT LIBRARY. THE SITE IS CURRENTLY A MIX OF GRAVEL PARKING AND GRASSED SHOULDER AREA. THE ENTIRE SITE DRAINS INTO THE ADJACENT DRAINAGE DITCH. THERE ARE CURRENTLY NO KNOWN EROSION PROBLEMS RELATED TO THE PROJECT AREA.

ADJACENT PROPERTY: THE PROJECT AREA IS BOUNDED BY VDOT R/W TO THE NORTH, TAX # 79.01-03-26.00 TO THE EAST, VDOT RIGHT-OF-WAY TO THE SOUTH, TAX # 79.01-04-22.00 TO THE WEST.

OFFSITE AREAS: THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, TO THE COUNTY OF ROANOKE:

- THE LOCATION OF ANY OFFSITE BORROW AREAS.
- THE LOCATION OF ANY OFFSITE AREAS WHERE EXCESS EXCAVATED MATERIAL WILL BE DISPOSED.

SOILS: THE "WEB SOIL SURVEY" AS PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE IDENTIFIES THE SOILS ON SITE AS 29C HAYESVILLE, 2 TO 15 PERCENT SLOPE, WHICH IS URBAN LAND COMPLEX SOIL GROUP B.

Critical Areas: CRITICAL AREAS FOR THIS PROJECT INCLUDE ALL AREAS ADJACENT TO RTE. 116. SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT THESE AREAS HAVE ADEQUATE EROSION CONTROL AND THAT SEDIMENT TRANSPORT FROM THE PROPERTY IS MINIMIZED.

EROSION AND SEDIMENT CONTROL MEASURES: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION (VESCH). THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS DIRECTED BY THE LOCAL PROGRAM ADMINISTRATOR.

STRUCTURAL-

CONSTRUCTION ENTRANCE-Std. 3.02 a stone pad, located at points of vehicular ingress and egress to the construction site, to reduce the soil transported onto public roads and other paved areas.

SILT FENCE. 3.05 a temporary sediment barrier consisting of a synthetic filter fabric stretched across and attached to supporting posts and entranced to intercept and detain small amounts of sediment from disturbed areas.

CULVERT INLET PROTECTION. 3.08 shall be installed as shown on the erosion and sediment control plan in conformance with vesch std. & spec. or vwwa asds culvert inlet protections are provided in order to filter runoff before it enters a storm drain system.

DEWATERING STRUCTURE. 3.26 a temporary settling and filter device for water which is discharged from dewatering activities, used to filter sediment-laden water prior to the water being discharged offsite.

VEGETATIVE-

TEMPORARY SEEDING. 3.31 establishment of temporary vegetative cover on disturbed areas by seeding with appropriate rapidly growing annual plants to reduce erosion by stabilizing disturbed areas that will not be brought to final grade for a period of more than 14 days.

PERMANENT SEEDING. 3.32 establishment of perennial vegetative cover on disturbed areas by planting seed to reduce erosion and decrease sediment yield from disturbed areas.

MULCHING. 3.35 application of plant residues or other suitable materials to the soil surface. Mulching will prevent erosion by protecting the soils surface from raindrop impact and reducing the velocity of overland flow. After seeding, mulching will foster the growth of vegetation by increasing available moisture and providing insulation against extreme heat and cold.

DUST CONTROL. 3.39 the application of measures to prevent surface and air movement of dust from exposed soil surfaces and reduce the presence of airborne substances which may present health hazards, traffic safety problems or harm animal or plant life.

MANAGEMENT STRATEGIES:

A.) CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

B.) SEDIMENT TRAPPING MEASURES WILL BE INSTALLED AS A FIRST STEP IN GRADING.

C.) THE LOCAL PROGRAM ADMINISTRATOR RESERVES THE RIGHT TO ADD TO, DELETE OR OTHERWISE CHANGE THE EROSION CONTROL MEASURES AS DEEMED NECESSARY DUE TO ACTUAL FIELD CONDITIONS BY WRITTEN NOTIFICATION TO THE CONTRACTOR.

D.) ALL FILL AND CUT SLOPES SHALL BE SEDED WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE.

E.) ONLY AFTER INSPECTION AND APPROVAL FROM THE LOCAL PROGRAM ADMINISTRATOR, EROSION AND SEDIMENT CONTROL DEVICES MAY BE REMOVED FOLLOWING THE STABILIZATION OF THE CONTRIBUTING AREAS.

THE WWA SHALL INSPECT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND THE AREA OF CONSTRUCTION VEHICLE ACCESS AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN 48 HOURS OF THE END OF A STORM EVENT PRODUCING 1/2" OR GREATER OF PRECIPITATION, WHERE AREAS HAVE BEEN FINALLY OR TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (SITE IS COVERED WITH, ICE, OR FROZEN GROUND EXISTS) SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH.

A.) INSPECT DISTURBED AREAS AND AREAS OF MATERIALS STORAGE THAT ARE EXPOSED TO PRECIPITATION FOR EVIDENCE OF, OR THE POTENTIAL FOR SEDIMENT ENTERING THE STORM DRAIN SYSTEM. INSPECT E&S CONTROLS IN ACCORDANCE WITH REQUIREMENTS STATED HEREIN, AND INSPECT POINTS OF STORM DRAIN DISCHARGE FOR EXCESSIVE SEDIMENTATION. CORRECT SITE CONTROLS AS IS REQUIRED TO REDUCE SEDIMENTATION OF STORM DRAINED, CULVERTS, AND RECEIVING CHANNELS.

B.) IF CONTROLS OR SEDIMENT PREVENTION AREAS ARE FOUND TO BE IN NEED OF REPAIR OR MODIFICATION, THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OR MODIFICATION TO EXISTING MEASURES AS REQUIRED. ANY ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES SHALL BE RECORDED AS FIELD REVISIONS TO THESE PLANS. IN THE EVENT THAT ADDITIONAL CONTROLS ARE FOUND TO BE REQUIRED, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE CONTROLS BEFORE THE NEXT ANTICIPATED STORM EVENT IS IMPRACTICAL, THEY SHALL BE IMPLEMENTED AS SOON AS PRACTICAL.

C.) A REPORT SUMMARIZING THE SCOPE OF INSPECTIONS, NAME OF INSPECTOR, INSPECTOR'S QUALIFICATIONS, DATES OF INSPECTIONS, MAJOR OBSERVATIONS PERTAINING TO THE IMPLEMENTATION OF THESE EROSION CONTROL PLANS, AND ACTIONS TAKEN SHALL BE MADE AND RETAINED AS A PART OF THESE PLANS. MAJOR OBSERVATIONS OF THESE REPORTS SHALL INCLUDE: THE LOCATIONS OF EXCESSIVE SEDIMENTATION FROM THE SITE; LOCATIONS OF CONTROLS IN NEED OF REPAIR; LOCATION OF FAILED OR INADEQUATE CONTROLS; AND LOCATIONS WHERE ADDITIONAL CONTROLS ARE NEEDED.

STORMWATER MANAGEMENT:

STORMWATER QUANTITY REQUIREMENTS WILL BE MET BY **SHEETFLOWS TO EXISTING DRAINAGE CHANNEL**

STORMWATER QUALITY REQUIREMENTS WILL BE MET THROUGH **NOT APPLICABLE**



MINIMUM STANDARDS

THE FOLLOWING STANDARDS ARE TO BE PROVIDED OR ADDRESSED ON EVERY DEVELOPMENT PROJECT EXCEEDING 10,000 S.F. IN AREA OF DISTURBANCE. THESE STANDARDS ARE CONSIDERED A MINIMUM AND MAY REQUIRE ADDITIONAL MEASURES AS DEEMED NECESSARY BY THE LOCAL PROGRAM AUTHORITY OR THE CONSULTING ENGINEER.

NO.	CRIERIA, TECHNIQUE OR METHOD	PRACTICES PROVIDED
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