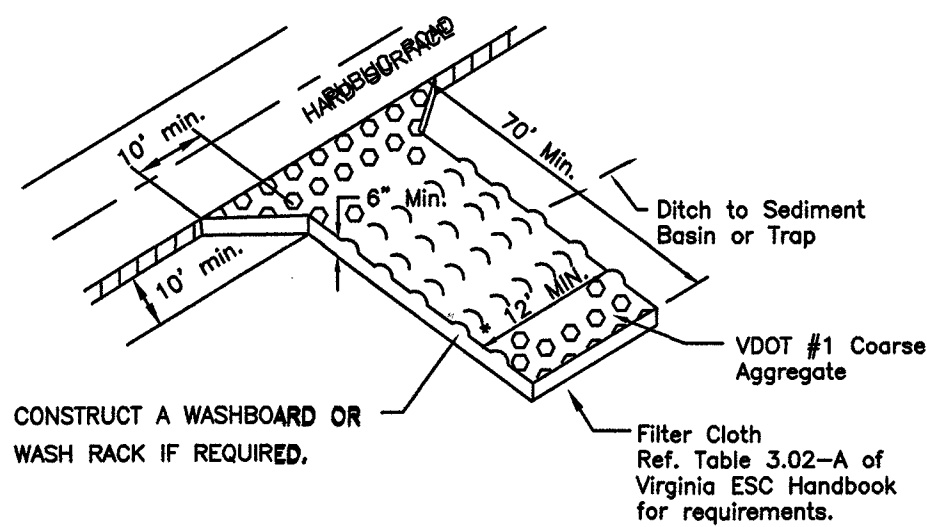
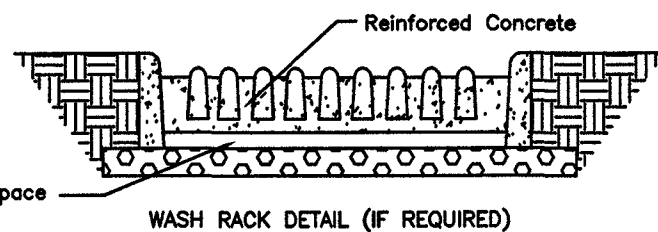
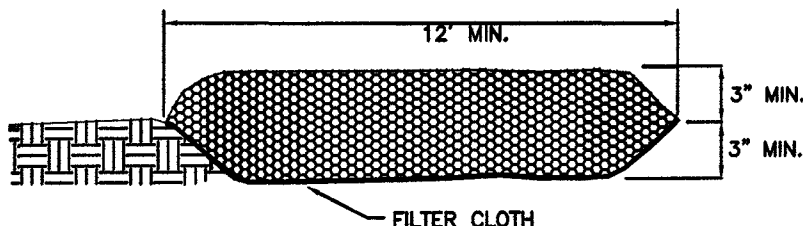


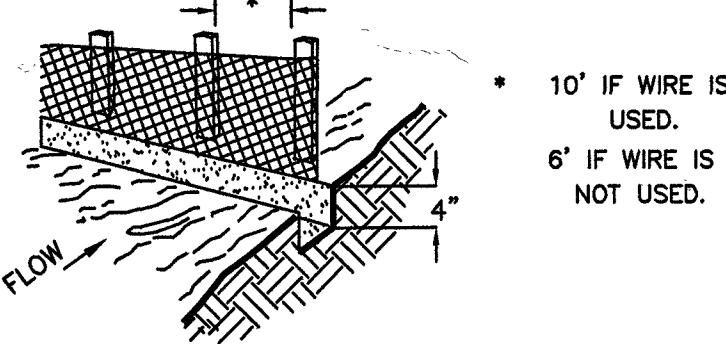
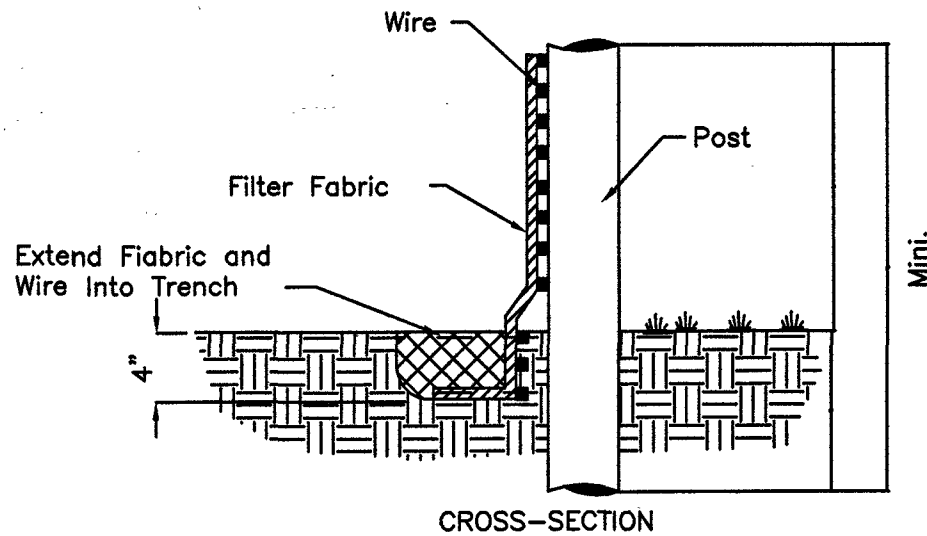
YES	NO	N/A		PLOT PLAN REVIEW CHECKLIST FOR EROSION AND SEDIMENT CONTROL PLOT PLANS:
(X)	()	()	MS-1	HAVE TEMPORARY AND PERMANENT STABILIZATION BEEN ADDRESSED IN THE NARRATIVE? ARE PRACTICES SHOWN ON THE PLAT? LIME & FERTILIZER? MULCHING? PAVEMENT/STONE?
()	()	(X)	MS-2	HAS STABILIZATION OF SOIL STOCKPILES, BORROW AREAS AND DISPOSAL AREAS BEEN ADDRESSED IN THE NARRATIVE? ARE SEDIMENT TRAPPINGS MEASURES PROVIDED?
(X)	()	()	MS-3	HAS THE ESTABLISHMENT AND MAINTENANCE OF PERMANENT VEGETATIVE STABILIZATION BEEN ADDRESSED?
(X)	()	()	MS-4	DOES THE PLAN SPECIFICALLY STATE THAT SEDIMENT TRAPPING FACILITIES SHALL BE CONSTRUCTED AS A FIRST STEP IN LAND DISTURBING ACTIVITIES?
(X)	()	()	MS-5	DOES THE PLAN SPECIFICALLY STATE THAT STABILIZATION OF EARTHEN STRUCTURES IS REQUIRED IMMEDIATELY AFTER INSTALLATION?
()	()	(X)	MS-6	ARE SEDIMENT TRAPS AND SEDIMENT BASINS SPECIFIED WHERE NEEDED?
(X)	()	()	MS-7	HAVE TEMPORARY AND PERMANENT STABILIZATION OF CUT AND FILL SLOPES BEEN ADEQUATELY ADDRESSED?
()	()	(X)	MS-8	ARE PAVED FLUMES, CHANNELS OR SLOPE DRAINS REQUIRED ON CUT AND FILL SLOPES WHERE NECESSARY?
()	()	(X)	MS-9	HAS WATER SEEPING FROM A SLOPE FACE BEEN ADDRESSED (E.G. SURFACE ROUGHENING, SUBSURFACE DRAINS)?
()	()	(X)	MS-10	IS ADEQUATE INLET PROTECTION REQUIRED ON ALL OPERATIONAL STORM SEWER INLETS?
()	()	(X)	MS-11	ARE OUTLET PROTECTION AND/OR CHANNELING REQUIRED ON STORMWATER CONVEYANCE AND RECEIVING CHANNELS?
()	()	(X)	MS-12	ARE IN-STREAM PROTECTION MEASURES REQUIRED SO THAT CHANNEL IMPACTS ARE MINIMIZED?
()	()	(X)	MS-13	ARE TEMPORARY STREAM CROSSINGS OF NON-ERODIBLE MATERIAL REQUIRED WHERE APPLICABLE?
()	()	(X)	MS-14	(NOTE: THIS REGULATION REQUIRES THAT APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES BE FOLLOWED.)
()	()	(X)	MS-15	HAS IMMEDIATE RESTABILIZATION OF AREAS SUBJECT TO IN-STREAM CONSTRUCTION BEEN ADEQUATELY ADDRESSED?
(X)	()	()	MS-16	HAS STABILIZATION OF UTILITY TRENCHES AND DEWATERING OPERATIONS BEEN ADDRESSED?
()	()	(X)	MS-17	IS THE TRANSPORT OF SOIL AND MUD ONTO PUBLIC ROADWAYS PROPERLY CONTROLLED? (I.E., CONSTRUCTION ENTRANCES, WASH RACKS, DAILY CLEANING OF ROADWAYS, TRANSPORT OF SEDIMENT TO A TRAPPING FACILITY)
(X)	()	()	MS-18	HAS THE REMOVAL OF TEMPORARY PRACTICES BEEN ADDRESSED? HAS THE REMOVAL OF ACCUMULATED SEDIMENT AND THE FINAL STABILIZATION OF THE RESULTING DISTURBED AREAS BEEN ADDRESSED?
(X)	()	()	MS-19	ARE PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT ADEQUATELY PROTECTED FROM EROSION AND SEDIMENT DEPOSITION DUE TO INCREASES IN PEAK STORMWATER RUNOFF?
(X)	()	()		VICINITY MAP A SMALL MAP LOCATING SITE IN RELATION TO THE SURROUNDING AREA. INCLUDE ANY LAND MARKS WHICH MIGHT ASSIST IN LOCATING THE SITE.
(X)	()	()		INDICATE NORTH THE DIRECTION OF NORTH IN RELATION TO THE SITE.
(X)	()	()		LIMITS OF CONSTRUCTION AREAS WHICH ARE TO BE CLEARED AND GRADED INCLUDING LISTING THE SIZE OF THE DISTURBED AREA.
(X)	()	()		EXISTING CONTOURS THE EXISTING CONTOURS OF THE SITE
(X)	()	()		FINAL CONTOURS CHANGES TO THE EXISTING CONTOURS INCLUDING FINAL DRAINAGE PATTERNS
(X)	()	()		EXISTING VEGETATION THE EXISTING TREE LINES, GRASSED AREAS AND UNIQUE VEGETATION
(X)	()	()		SOILS THE BOUNDARIES OF DIFFERENT SOILS TYPES
()	()	(X)		EXISTING DRAINAGE PATTERNS THE DIVIDING LINES AND THE DIRECTION OF FLOW FOR THE DIFFERENT DRAINAGE AREAS, INCLUDE THE SIZE (ACREAGE) FOR EACH DRAINAGE AREA.
()	()	(X)		CRITICAL EROSION AREAS AREAS WITH POTENTIALLY SERIOUS EROSION PROBLEMS (SEE THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, CHAPTER 6 FOR CRITERIA)
(X)	()	()		SITE DEVELOPMENT SHOW ALL IMPROVEMENTS SUCH AS BUILDINGS, PARKING LOTS, DRIVEWAYS, ACCESS ROADS, ETC..
(X)	()	()		LOCATION OF PRACTICES THE LOCATIONS OF EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT PRACTICES USED ON SITE. USE THE STANDARD SYMBOLS AND ABBREVIATIONS IN CHAPTER 3 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
()	()	(X)		OFF-SITE AREAS IDENTIFY ANY OFF-SITE LAND-DISTURBING ACTIVITIES (BORROW SITES, WASTE AREAS, ETC..). SHOW LOCATION OF EROSION CONTROLS. (IS THERE SUFFICIENT INFORMATION TO ASSURE ADEQUATE PROTECTION AND STABILIZATION?)
()	()	(X)		DETAIL DRAWINGS ANY STRUCTURAL PRACTICES USED THAT ARE NOT REFERENCED TO THE E&S HANDBOOK OR LOCAL HANDBOOK SHOULD BE EXPLAINED AND ILLUSTRATED WITH DETAIL DRAWINGS.
(X)	()	()		MAINTENANCE A SCHEDULE OF REGULAR INSPECTIONS AND REPAIR OF EROSION AND SEDIMENT CONTROL STRUCTURES SHOULD BE SET FORTH
(X)	()	()		OWNER'S NAME
(X)	()	()		NAME, ADDRESS, OCCUPATION AND SIGNATURE OF PERSON PREPARING THE PLAN IF OTHER THAN A REGISTERED DESIGN PROFESSIONAL
(X)	()	()		PROPERTY ADDRESS AND COUNTY TAX MAP IDENTIFICATION NUMBER
(X)	()	()		THE SCALE OF THE PLAN
(X)	()	()		PROPERTY LINES AND DIMENSIONS DRAWN IN ACCORDANCE WITH AN ACCURATE BOUNDARY LINE SURVEY
(X)	()	()		EXISTING STRUCTURES (WALLS, FENCES, ACCESSORY BUILDINGS, ETC..)
(X)	()	()		DISTANCE FROM ALL STRUCTURES TO ADJOINING PROPERTY LINES
(X)	()	()		IDENTIFICATION OF POTENTIAL EXPANSIVE SOIL TYPES PER THE ROANOKE COUNTY EXPANSIVE SOIL POLICY
()	()	(X)		LOCATION OF FLOODPLAIN, FLOODWAY AND FLOODWAY FRINGE FROM FEMA FLOOD HAZARD BOUNDARY MAPS AND FINISHED FLOOR ELEVATION OR 100 ACRE WATER SHED PER ROANOKE COUNTY DRAINAGE STANDARDS
(X)	()	()		LOCATION, DIMENSION AND TYPES OF ALL EASEMENTS
(X)	()	()		PROPOSED OR EXISTING LOCATION OF SEPTIC, DRAIN FIELD AND REPAIR AREA IF APPLICABLE; OR LOCATION OF SANITARY SEWER LINES.
(X)	()	()		PROPOSED OR EXISTING WELL LOCATION IF APPLICABLE; OR LOCATION OF EXISTING WATER LINE.
(X)	()	()		PLAN TO INDICATE FINAL DISPOSITION OF ALL STORM WATER TO AN APPROVED DISCHARGE POINT.



* MUST EXTEND FULL WIDTH OF INGRESS & EGRESS OPERATION.



CE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



SF CONSTRUCTION OF A SILT FENCE

KEY	TITLE	NO.	SYMBOL
SF	SILT FENCE	3.05	— x — x — x — x —
PS	PERMANENT SEEDING	3.32	— (PS) —
CE	CONSTRUCTION ENTRANCE	3.02	— (CE) —

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THE PURPOSE OF THIS PLAN IS TO CONSTRUCT A PICNIC SHELTER. DISTURBED AREA IS 0.14 ACRES.

EXISTING SITE CONDITIONS

THE EXISTING SITE CURRENTLY IS COVERED WITH SPARSE GRASS AND FALLEN LEAVES. THE TERRAIN SLOPES IN THE 2.0% TO THE 5% RANGE.

ADJACENT AREAS

THE PROPERTY IS BORDERED BY GRASS AND SPARCES WOODS TO THE NORTH SOUTH AND EAST, AND CARVSN COVE TO THE WEST.

SOILS

4D - BERKS-WEIKERT COMPLEX, 15 TO 30 PERCENT SLOPES
39A - MASSANETTA SILT LOAM, 0 TO 3 PERCENT SLOPES

OFF SITE AREAS

THERE WILL BE NOT OFF-SITE DISTURBED AREAS.

E & S QUANTITIES AND COST ESTIMATE			
ITEM	QUANTITY	UNIT PRICE	COST
CONSTRUCTION ENTRANCE	1	\$1000/EA	\$1000
SILT FENCE	200 lf	\$4.00/LF	\$800
PERMANENT SEEDING	3,000sf	\$0.05sf	\$150
CARVINS COVER JUNE 27, 2019			
SUBTOTAL			\$1950
10% CONTINGENCY			\$195
TOTAL COST			\$2,145

PS PERMANENT SEEDING MIXTURE

TYPE A

15 OCTOBER TO 1 FEBRUARY
K-31 FESCUE @ 5 LB / 1000 SF
BORZY WINTER RYE @ 1/2 LB / 1000 SF
1 FEBRUARY TO 1 JUNE
K-31 FESCUE @ 5 LB / 1000 SF
ANNUAL RYE @ 1/2 LB / 1000 SF
1 JUNE TO 1 SEPTEMBER
K-31 FESCUE @ 5 LB / 1000 SF
GERMAN MILLET @ 1/2 LB / 1000 SF
1 SEPTEMBER TO 15 OCTOBER
K-31 FESCUE @ 5 LB / 1000 SF
ANNUAL RYE @ 1/2 LB / 1000 SF

TYPE B (SLOPES 3:1 OR STEEPER)

15 MARCH TO 1 MAY
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 LB / 1000 SF
15 AUGUST TO 1 OCTOBER
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 LB / 1000 SF

LIME: 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE
FERTILIZER: 5-20-10 @ 25 LB / 1000 SF
38-0-0 @ 7 LB / 1000 SF

MULCH: IF REQUIRED, SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

SOIL CONDITIONING:

INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

APPROVED

PIERSON
ENGINEERING
&
SURVEYING

P.O. BOX 311
44 CATAWBA ROAD
DALEVILLE, VA 24083

(540) 966-3027 TEL
(540) 966-5906 FAX
e-mail: rpierson@rbnet.com

SITE PLAN
FOR
CARVINS COVE PICNIC PAVILION
BOTETOURT COUNTY, VIRGINIA

DETAILS & NOTES

