Project Description

The project is located near the area of the Glebe in Botetourt County, Virginia.

This plans shows the construction of a sewerline, waterline and residential house construction. The disturbed area for the waterline and sewerline and house construction is approximately 2.2 acres.

Existing Site Condition

Most of the site consists of open grass areas. The terrain slopes in the 0.5% to 8% range.

Adjacent areas

The site is bordered on three (3) sides by open greas and to the east by Hollymead Lane, a state maintained road.

Soils found at this site are common to the area. None of these soils have high erosion

Soils Are:

53B -Timberville Silty Loam - (0%-15% Slopes)

Nearest Body of Water

Tinker Creek

Critical Areas

Their are no critical erosion areas.

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 specifications of the handbook. The minimum standards of the VESCR shall be adhere to unless otherwise waived or approved by a variance.

Structural Practices

- a. Temporary Construction Entrance (Section 3.02);
 One temporary construction entrance will be installed.
- b. Silt Fence (Section 3.05)
- Temporary silt fence will be installed as indicated on the site plan.
- c. Culvert Inlet Protection (Section 3.08)

 Culvert Inlet Protection will be installed as indicated on the site plan.
- d. Outlet Protection (Section 3.18)
- Outlet Protection will be installed as indicated on the site plan.
- e. Temporary & Permanent Seeding (Section 3.31 & 3.32)

 Temporary seeding will be placed on all disturbed areas that will not be brought to final grade within one year or less. Temporary seeding will aid in the reduction of dust and sediment.

Temporary Seeding (Section 3.31)

Rates per acre: Winter - 40 lbs. annual rye and 40 lbs. cereale rye. Summer - 40 lbs. annual rye and 40 lbs foxtail millet. Fertilizer - 1500 lbs. of 10-18-10 per acre.

Lime — 2 tons per acre.

Permanent Seeding (Section 3.32) After final grading, permanent seeding will be employed to reduce erosion and sediment.

Seeding Specifications: Seasonal rates per acre: Feb. 1 to May 15 100 lbs. tall fescue

Aug. 1 to Sept. 15 100 lbs. tall fescue 15 lbs. annual rye 2 lbs. red clover

May 16 to July 31 120 lbs. tall fescue Sept. 16 to Jan. 31 120 lbs. tall fescue 10 lbs. cereale rye 10 lbs foxtail millet 2 lbs. red clover

Fertilizer - all seasons - 1500 lbs. of 10-18-10 per acre Lime - all seasons - 2 tons per acre A mulch cover is required on every seeding:

Straw at 80 bales per acre or an approved manufactured mulch/stabilization material.

All seeding, with required associated practices, will be in accordance with all applicable sections of the Virginia Erosion and Sediment Control Handbook.

General

Regulations, (Latest Edition).

There will not be an off-site area for this project.

NO SEARCH OF UNDERGROUND UTILITIES WAS CONDUCTED.

PRIOR TO WORK FOR LOCATION OF UNDERGROUND UTILITIES.

g. Dust Control (Section 3.39)

2 lbs. red clover

15 lbs. annual rye

2 lbs. red clover

If arid condition prevail, dust control practices will be employed as required. Management

a. Construction should be sequenced so that grading operations can begin and end

- as quickly as possible.
- c. Areas which are not to be disturbed shall be clearly marked by flags, signs, etc.
- d. The grading contractor shall be responsible for the installation and maintenance of all erosion and sediment control practices. Inspections are to be made periodically and after every significant rainfall.

b. Erosion and Sediment control devices shall be installed as the first step of construction.

Maintenance

In general, all erosion and sediment control measures will be checked daily and after each significant rainfall. Any items not found in accordance with the Virginia Erosion and Sediment Control Handbook will be immediately replaced and/or repaired. The following items will be checked inn particular:

- a. The silt fence barrier will be checked regularly for undermining of deterioration of the fabric. Sediment shall be removed when the level of sediment deposition reaches half way to the top of the barrier.
- The seeded areas will be checked regularly to ensure that a good stand is maintained. Areas should be fertilized and reseeded as needed.
- All graveled areas shall be checked for a uniform grade with no ruts or channels and top dressed with new gravel as required.

d. All measures shall be maintained until a stabilized stand of grass is obtained.

e. If, during construction, the Erosion and Sediment Control reviewing Officers considers the Erosion and Sediment items to be inadequate, he or she, at their discretion require the addition of other control measures.

MINIMUM STANDARDS

- PERMANENT AND TEMPORARY SOIL STABILIZATION WILL BE HANDLED BY TEMPORARY AND PERMANENT SEEDING
- 2. NO SOIL STOCKPILES WILL BE LOCATED ON THE SITE.
- 3. PERMANENT VEGETATIVE COVER WILL BE INSTALLED ON THE SITE BY SEEDING.
- 4. ONE SEDIMENT TRAP WILL BE UTILIZED.
- 5. N/A
- 6. ONE SEDIMENT TRAP WILL BE UTILIZED.
- 7. SLOPES WILL BE STABILIZED BY SEEDING.
- 8. STORM CONVEYANCE CHANNELS WILL BE UTILIZED FOR CONCENTRATED RUNOFF.
- 9. NO AREA OF WATER SEEPS FROM SLOPE FACES.
- 10. INLET AND OUTLET PROTECTION WILL BE USED FOR ALL DROP INLETS AND PIPES.
- 11. OUTLET AND INLET PROTECTION WILL BE UTILIZED ON ALL PIPES.
- 12. NOT APPLICABLE.
- 13. NOT APPLICABLE
- 14. NOT APPLICABLE.
- 15. NOT APPLICABLE.
- 16. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ON TIME. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES. MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED. RESTABILIZATION SHALL BE ACCOMPLISHED ACCORDING TO THESE PLANS AND REGULATIONS. APPLICABLE SAFETY REGULATIONS SHALL BE COMPLIED WITH.
- 17. A CONSTRUCTION ENTRANCE IS BEING UTILIZED.

The erosion and sediment control measures shown on the construction plans are the minimum

be shown. The owner, through his contractor will employ whatever measures which may be

All materials and measures employed for erosion and sediment control will be in accordance

If during construction, additional Erosion and Sediment Control measures are deemed

CONTRACTOR SHALL CONTACT THE COUNTY OF BOTETOURT AND MISS UTILITY

necessary, they shall be installed as directed by the Owner, Engineer or County agent.

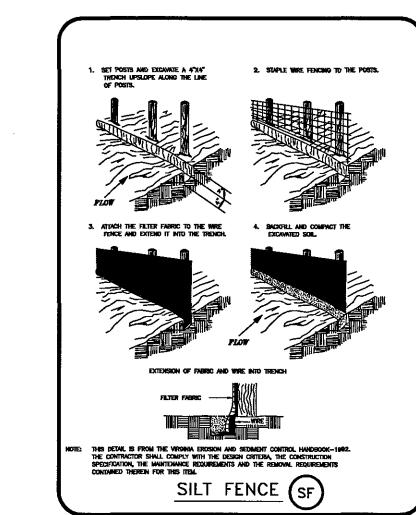
This project is to be constructed consistent with the Virginia Erosion and Sediment Control

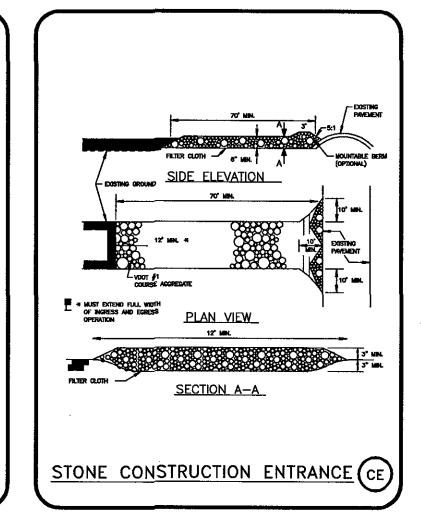
required to assure that sediment laden runoff does not leave the site.

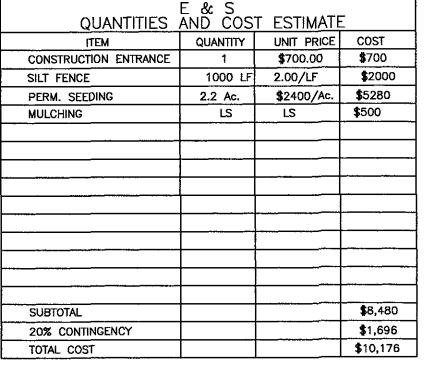
with the Virginia Erosion and Sediment Control Handbook, latest edition.

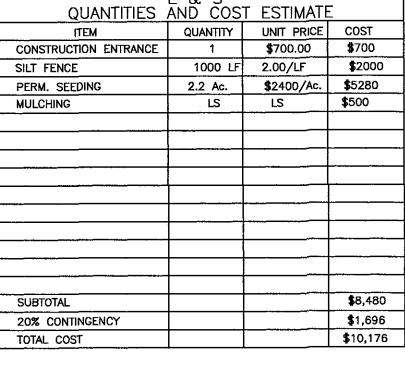
measures required. Due to construction phasing and other considerations, all measures can not

- 18. ALL E & S MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION.
- 19. NONE OF THE SURROUNDING PROPERTY WILL NOT BE ADVERSELY EFFECTED BY THIS SITE.









VIRGINIA

DATE: 06/25/2014

ENGINEERING

SURVEYING

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E & S Details

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