

STANDARD GRADING NOTES

1. FINISH LAWN AREAS TO WITHIN ONE INCH ABOVE OR BELOW REQUIRED SUBGRADE ELEVATIONS. SHAPE SURFACE UNDER WALKS AND PAVEMENTS TO LINE, GRADE, AND CROSS SECTION, WITH NOT MORE THAN 1/2" ABOVE OR BELOW REQUIRED SUBGRADE ELEVATION.
2. SPREAD TOPSOIL TO A UNIFORM COMPACTED DEPTH OF 2" ON 3:1 OR STEEPER SLOPES AND 4" OVER ALL OTHER DISTURBED AREAS NOT RECEIVING WALKS, PAVEMENT, WALLS OR BUILDING, INCLUDING TRENCHES (SEE TABLE 3.30-A). CARE SHALL BE TAKEN ENSURE PROPER BONDING AND NOT TO APPLY TOPSOIL TO SUBSOIL IF THE TWO SOILS HAVE CONTRASTING TEXTURES (CLAYEY VS. SANDY). IMMEDIATELY FOLLOWING PLACEMENT OF TOPSOIL, DISK THE ENTIRE TOPSOILED AREA AND RAKE FREE OF STONES AND DEBRIS OVER 1/2" IN ANY DIMENSION. PROVIDE A FINISHED SURFACE FREE OF DEPRESSIONS OR HIGH SPOTS. SEED IMMEDIATELY.

SEQUENCE OF CONSTRUCTION

1. AS THE FIRST STEP IN IMPLEMENTATION OF THIS EROSION AND SEDIMENT CONTROL PLAN, IT SHALL BE THE GENERAL CONTRACTOR'S (GC) RESPONSIBILITY TO REVIEW THIS PLAN IN DETAIL WHILE FAMILIARIZING THEMSELVES WITH THE SITE. PRIOR TO COMMENCING ANY WORK, FAILURE TO FOLLOW THE SEQUENCE OF CONSTRUCTION OF THE APPROVED PLANS SHALL BE CONSIDERED A VIOLATION AND WILL RESULT IN FURTHER ENFORCEMENT, INCLUDING, BUT NOT LIMITED TO STOP WORK ORDERS AND CIVIL PENALTIES. ADDITIONALLY, IT SHALL BE THE GC'S RESPONSIBILITY TO READ AND ADHERE TO THE STORMWATER POLLUTION PREVENTION PLAN AND THE RECOMMENDATIONS OF THE ONSITE GEOTECHNICAL ENGINEER.
2. THE CONTRACTOR SHALL CONTACT THE TOWN ENGINEERING DEPARTMENT AT (540) 382-6120 OR IN WRITING A MINIMUM FIVE (5) BUSINESS DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING.
3. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO HAVE LIMITS OF DISTURBANCE AND PROPERTY CORNERS CLEARLY MARKED BY FLAGGING OR PAINT. THE CONTRACTOR SHALL INSTALL THE PERIMETER EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AS DETAILED HEREIN.
4. INSTALL SILT FENCE AS SHOWN ON PLANS.
5. COMMENCE DEMOLITION AND CLEARING OF SITE.
6. COMMENCE REMAINING CUT AND FILL OPERATIONS.
7. PLACE TOPSOIL. SEED ALL EARTH AREAS PROMPTLY.
8. UPON COMPLETION OF THE PROJECT ALL DISTURBED AREAS MUST BE PERMANENTLY STABILIZED. THE CONTRACTOR SHALL CONTACT TOWN OF CHRISTIANBURG ENGINEERING DEPARTMENT STAFF FOR A FINAL SITE INSPECTION. ALL SILT FENCES AND OTHER TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED FROM THE SITE, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR TOWN OFFICIALS.

LEGEND

3.05	SILT FENCE	SF
3.30	TOPSOILING	TO
3.32	PERMANENT SEEDING	PS

TABLE 3.30-A

CUBIC YARDS OF TOPSOIL REQUIRED
FOR APPLICATION TO VARIOUS DEPTHS

Depth (inches)	Per 1,000 Square Feet	Per Acre
1	3.1	134
2	6.2	268
3	9.3	403
4	12.4	537
5	15.5	672
6	18.6	806

Source: Va. DSWC

TABLE 3.32-F

LBS. OF GROUND AGRICULTURAL LIMESTONE*
PER THOUSAND SQUARE FEET NEEDED
TO CORRECT pH LEVEL OF ACID SOILS TO 6.5

Existing pH	Soil Texture		
	Sandy Loam	Loam	Clay Loam
6.2	20	35	40
6.0	40	55	70
5.8	55	65	85
5.6	70	80	105
5.4	90	100	125
5.2	105	120	140
5.0	120	140	160
4.8	125	180	205
4.6	155	210	230
4.0	200	250	300

* Lime should always be applied in accordance with the results of a soil test, such as may be obtained through the soil testing laboratory at VPI&SU or through a reputable commercial laboratory.

Source: DSWC's Basic Urban E&S in Virginia

APPROVED: Engineering Date

APPROVED: Planning Date

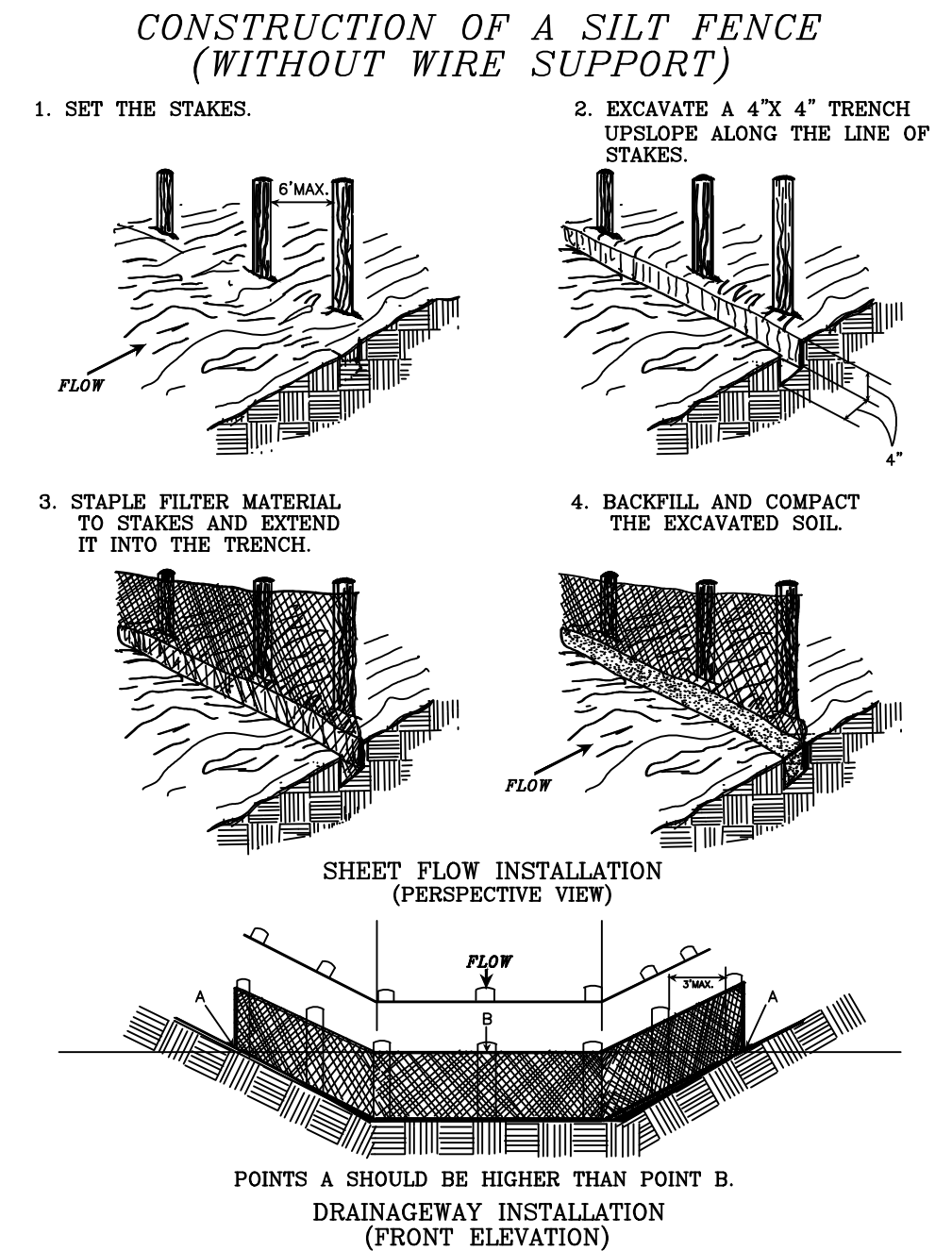


TABLE 3.32-C (Revised June 2003) PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN/MOUNTAIN AREA		
LAND USE	SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue ²	90-100%
	Perennial Ryegrass ²	0-10%
	Kentucky Bluegrass ²	0-10%
		TOTAL: 200-250 lbs.
High-Maintenance Lawn	Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia ¹	TOTAL: 125 lbs.
	Tall Fescue ²	128 lbs.
General Slope (3:1 or less)	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ³	20 lbs.
		TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue ²	108 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop ³	20 lbs.
		TOTAL: 130 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (Vicia) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by Vicia. A current turfgrass variety list is available at the local County Extension office or through Vicia at 804-740-4884 or at <http://arden.ces.vt.edu/html/turf/turfpublications/publications2.html>

2 - Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescues, thereby providing cover and erosion resistance for seedbed.

3 - Use seasonal nurse crop in accordance with seeding dates as stated below:

March, April - May 15 th	Annual Rye
May 16 th - August 15 th	Foxtail Millet
August 16 th - September, October	Annual Rye
November - February	Winter Rye

4 - All legume seed must be properly inoculated. If Flatpea is used, increase to 30 lbs/acre. If Wweeping Legvress is used, include in any slope or low maintenance midure during warmer seeding periods, increase to 50-40 lbs/acre.

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 500 lbs. / acre (or 12 lbs. / 1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs. / 1,000 sq. ft.)

NOTE:

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in [Erosion & Sediment Control Technical Bulletin #4](#), 2003 Nutrient Management for Development Sites at <http://www.dor.state.va.us/sw&ss/ntrm4pubs>

