Erosion & Sediment Control Technical Bulletin No. 4 Nutrient Management for Development Sites

C. When applying maintenance fertilizer on established sod,

	per 1,000 sq. ft. if the fertilizer is less than 50 percent WIN Type of Grass				
Month	Tall Fescue Perennial Rye	Kentucky Bluegrass	Bermudagrass	Zoysiagrass	
September	1	1	0	0	
October	1	1	0	0	
Early November	. 0	0	. 0	. 0	
April	0	0	0	Ö	
Maý	0-0.5	0-0.05	1	1	
June	0	0	1	0	
July/August	0	0	0	1	
Yearly Lbs. N/1000 sf	2.5	2.5	2	2	
Pounds of nitrogen p	per 1,000 sq. ft. if the fertilizer is more than 50 percent W Type of Grass				
		Tyne	ง กf Grass		
Month	Tall Féscue Perennial Rye	Kentucky	e of Grass Bermudagrass	Zoyslagras	
Month August 15	,	Kentucky		Zoyslagrass 0	
	Perennial Rye	Kentucky Bluegrass	Bermudagrass		
August 15	Perennial Rye 1.5	Kentucky Bluegrass 1.5	Bermudagrass 0	O O	
August 15 October 1	Perennial Rye 1.5 1.5	Kentucky Bluegrass 1.5 1.5	Bermudagrass 0	0	
August 15 October 1 April	Perennial Rye 1.5 1.5 0	Kentucky Bluegrass 1.5 1.5	Bermudagrass 0 0 1.5	0 1.5	

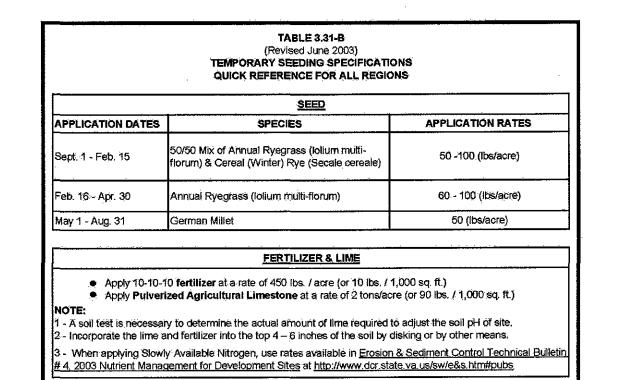
FERTILIZER SPECIFICATIONS AND RATES FOR MANAGEMENT

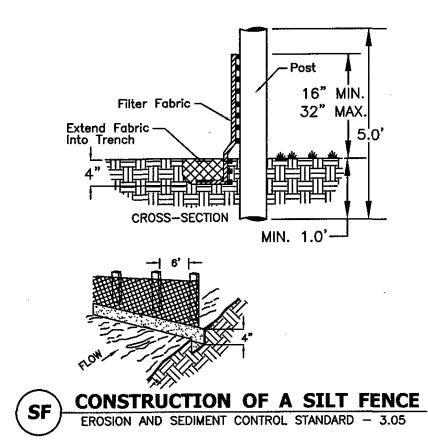
Minimum Care Lawn (Commercial or Residential) High-Maintenance Lawn General Slope (3:1 or less) Commercial Slope (3:1 or less) Tall Fescue¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ Total: 120 Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ Total: 150 Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ Total: 150 Total: 1	Tall Fescue¹ Perennial Ryegrass² Kentucky Bluegrass¹ Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia¹ Tall Fescue¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ TTAL: 125 Tall Fescue¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ TOTAL: 150 Tot		SEED1	
Minimum Care Lawn (Commercial or Residential) High-Maintenance Lawn General Slope (3:1 or less) Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia! Tall Fescue! Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop3 TOTAL: 125 Total: 125 Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop3 Total: 150 Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop3 Crownvetch4 Total: 150 1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommende turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgr variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/htmi/Turfaurf/publications/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 15th	Minimum Care Lawn (Commercial or Residential) Perennial Ryegrass² Kentucky Bluegrass¹ Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia¹ Tall Fescue¹ Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ TOTAL: 125 Total: 125 Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ Total: 126 Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ Total: 150 Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ Total: 150 Red Top Grass or Creeping Red Fescue Seasonal Nurse Crop³ Crownvetch⁴ Total: 150 1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommende turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgr variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turfatrif/publications/publications2.html 2 - Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescues, thereby providir cover and erosion resistance for seedbed. 3 - Use seasonal nurse crop in accordance with seeding dates as stated below: March, April - May 15th	LAND USE	SPECIES	APPLICATION RATES
Commercial or Residential) Kentucky Bluegrass¹ On TOTAL: 200-250	Commercial or Residential) Kentucky Bluegrass¹ O-TOTAL: 200-250		Tall Fescue ¹	90-10
Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia for use in Virginia and the Company of the Compan	Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia¹ Tall Fescue¹ Red Top Grass or Creeping Red Fescue. Seasonal Nurse Crop³ Total: 150 Tota		Perennial Ryegrass ²	•
Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia. Tall Fescue	Minimum of three (3) up to five (5) varieties of Kentucky Bluegrass from approved list for use in Virginia. Tall Fescue	(Commercial or Residential)	Kentucky Bluegrass ¹	•
Caneral Slope (3:1 of less)	Amoust 16th - August 16th - September, October - Seasonal nurse crop in accordance with seeding dates as stated below: March, April - May 16th - August 16th - September, October - Seasonal nurse seeding periods, increase to 30 lbs/acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 lbs/acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30 lbs/acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase			
for use in Virginia 1 Tall Fescue 1 Red Top Grass or Creeping Red Fescue. Seasonal Nurse Crop 3 Total: 150 Low-Maintenance Stope (Steeper than 3:1) Tall Fescue 1 Red Top Grass or Creeping Red Fescue. Seasonal Nurse Crop 3 Total: 150 Tall Fescue 1 Red Top Grass or Creeping Red Fescue. Seasonal Nurse Crop 3 Crownvetch 1 Total: 150 1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommende turfgrass variety list. Qualify seed will bear a label indicating that they are approved by VCIA. A current furfgr variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2.html 2 - Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescues, thereby providir cover and erosion resistance for seedbed. 3 - Use seasonal nurse crop in accordance with seeding dates as stated below: March, April - May 15th	for use in Virginia 1 Tall Fescue 1 Red Top Grass or Creeping Red Fescue 2 Seasonal Nurse Crop 3 Total: 150 Low-Maintenance Slope (Steeper than 3:1) Low-Maintenance Slope (Steeper than 3:1) Tall Fescue 1 Red Top Grass or Creeping Red Fescue 2 Seasonal Nurse Crop 3 Crownvetch 1 Total: 150 1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCIA) recommende turfgrass variety list. Qualify seed will bear a label indicating that they are approved by VCIA. A current turfgr variety list is available at the local County Extension office or through VCIA at 804-746-4884 or at http://sudan.cses.vt.edu/html/Turf/turf/publications/publications2.html 2 - Perennial Ryegrass will germinate faster and at lower soil temperatures than Tall Fescues, thereby providir cover and erosion resistance for seedbed. 3 - Use seasonal nurse crop in accordance with seeding dates as stated below: March, April - May 15th			
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March, April - May 15 th	March, April - May 15 th	· ·		·
Annual Rye November - February	August 16 th - September, October		March: April - May 15th	
August 16 th - September, October	August 16 th - September, October		May 16 th - August 15 th	Foxtail Millet
November - February	November - February		August 16th - September, October	Annual Rije
Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase.	Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase.		November - February	
			any slope or low maintenance mixture during war	mer seeding periods, increase.

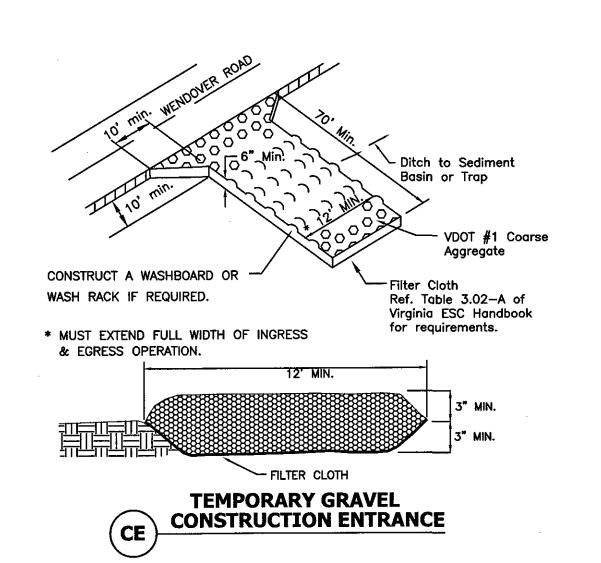
PERMANENT SEEDING

When applying Slowly Available Nitrogen, use rates available in <u>Frosion & Sediment Control Technical Bulletin</u> # 4, 2003 Nutrient Management for Development <u>Sites</u> at http://www.dcr.state.va.us/sw/e&s.htm#pubs

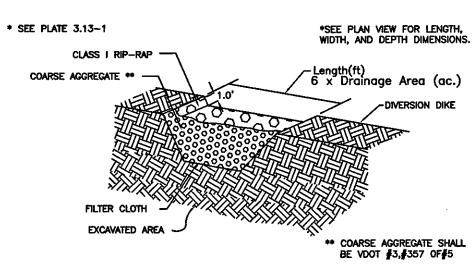
- A soil test is necessary to determine the actual amount of time required to adjust the soil pH of site. - Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by disking or by other means.



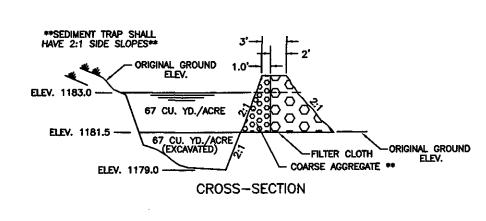




SEDIMENT TRAP DETAIL

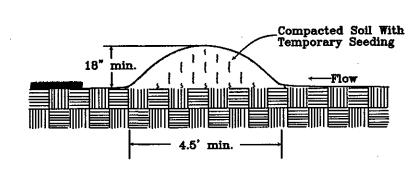


(ST) SEDIMENT TRAP

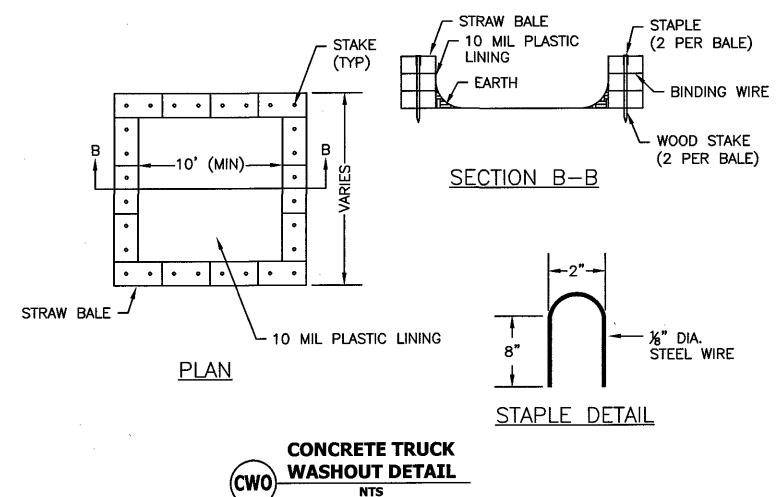


SEDIMENT TRAP SUMMARY TABLE

DRAINAGE AREA ID	ST-1
TOTAL DRAINAGE AREA SIZE	1.83 AC
BOTTOM LENGTH	112 FT
BOTTOM WIDTH	7 FT
DEPTH	4 FT
BERM HEIGHT	1 FT
WEIR LENGTH	11 FT
WEIR HEIGHT	1.5 FT
STORAGE REQUIRED (CY)	123 WET - 123 DRY
STORAGE PROVIDED (CY)	134 WET - 136 DR



TEMPORARY DIVERSION DIKE



1. ACTUAL SIZE TO BE DETERMINED IN FIELD. A MINIMUM OF 10' WIDE BY 10' LONG AND SIZED TO CONTAIN ALL LIQUID AND SOLID WASTE. A MINIMUM OF 12" FREEBOARD SHALL BE

2. THE CONCRETE WASHOUT SHALL NOT BE PLACED WITHIN 50'

OF STORM DRAINS. 3. EXCESS AND SLUMP TEST SOLIDS SHALL BE PLACED ON PLASTIC LINER UNTIL HARDENED. CONTRACTOR MAY CONSIDER INSTALLING WIRE OR REBAR HOOD FOR LATER PICKUP

4. INSPECTORS SHALL USE THE WASHOUT FACILITY OR PLASTIC FOR CLEANING OF THEIR TOOLS.

1. CHECK ALL CONCRETE WASHOUT FACILITIES DAILY TO DETERMINE IF THEY HAVE BEEN FILLED TO 75% CAPACITY. THE FACILITY SHALL BE CLEANED OUT OR CHANGED WHEN 75%

2. INSPECT LINERS DAILY TO ENSURE THAT LINERS ARE INTACT AND SIDEWALLS HAVE NOT BEEN DAMAGED BY CONSTRUCTION ACTIVITIES. LINERS SHALL BE REPLACED IF THERE ARE HOLES OR TEARS OBSERVED.

3. CONCRETE WASTE SHALL BE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN. THE HARDENED CONCRETE SHALL BE BROKEN UP AND DISPOSED OF OFFSITE PER APPLICABLE VA. DEQ RULES AND REGULATIONS. LIQUIDS SHALL NOT BE DISCHARGED DIRECTLY INTO WATERWAYS, STORM DRAINS, SWALES, OR DIRECTLY ONTO THE GROUND.

4. REMOVE LIQUIDS OR COVER STRUCTURE BEFORE PREDICTED STORMS TO PREVENT OVERFLOWS.

5. INSTALL A NEW PLASTIC LINER AFTER EVERY CLEANING.

REFLECTING TOMORROW

www.balzer.cc

New River Valley

SITE DEVELOPMENT ENGINEERING LAND USE PLANNING & ZONING LANDSCAPE ARCHITECTURE LAND SURVEYING

ARCHITECTURE STRUCTURAL ENGINEERING TRANSPORTATION ENGINEERING ENVIRONMENTAL & SOIL SCIENCE WETLAND DELINEATIONS & STREAM EVALUATIONS

Balzer and Associates, Inc.

1208 Corporate Circle Roanoke, VA 24018 540-772-9580

FAX 540-772-8050

DEVEI ROAD

OFFICE [

WENDOVER

WENDOVE DRAWN BY DESIGNED BY CPB

9/27/2017

AS NOTED

REVISIONS: 10/31/2017