

**TABLE 3.32-C**  
(Revised June 2003)  
**PERMANENT SEEDING SPECIFICATIONS FOR APPALACHIAN/MOUNTAIN AREA**

LAND USE	SEED <sup>1</sup>	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue <sup>2</sup> Perennial Ryegrass <sup>2</sup> Kentucky Bluegrass <sup>2</sup>	90-100% 0-10% 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	TOTAL: 125 lbs.
General Slope (3:1 or less)	Tall Fescue <sup>2</sup> Red Top Grass or Creeping Red Fescue <sup>2</sup> Seasonal Nurse Crop <sup>3</sup>	125 lbs. 2 lbs. 20 lbs.
		TOTAL: 150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue <sup>2</sup> Red Top Grass or Creeping Red Fescue <sup>2</sup> Seasonal Nurse Crop <sup>3</sup> Crownvetch <sup>2</sup>	108 lbs. 2 lbs. 20 lbs. 20 lbs.
		TOTAL: 150 lbs.

1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCA. A current turfgrass variety list is available at the local County Extension office or through VCA at 804/746-4884 or at <http://va.ces.vt.edu/turf/turfinfo/extensionspublications2.htm>

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 <sup>th</sup>	Annual Rye
May 15 <sup>th</sup> - August 15 <sup>th</sup>	Foxtail Millet
August 15 <sup>th</sup> - September, October	Annual Rye
November - February	Winter Rye

4 - All legume seed must be properly inoculated if Pajaro is used, increase to 30 lbs/acre. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40 lbs/acre.

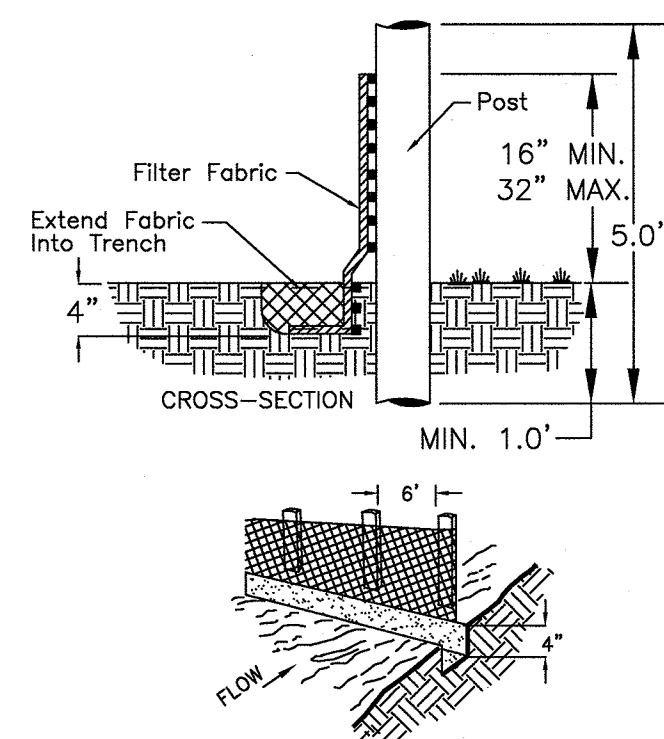
**FERTILIZER & LIME**

- Apply 10-20-10 fertilizer at a rate of 600 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.)

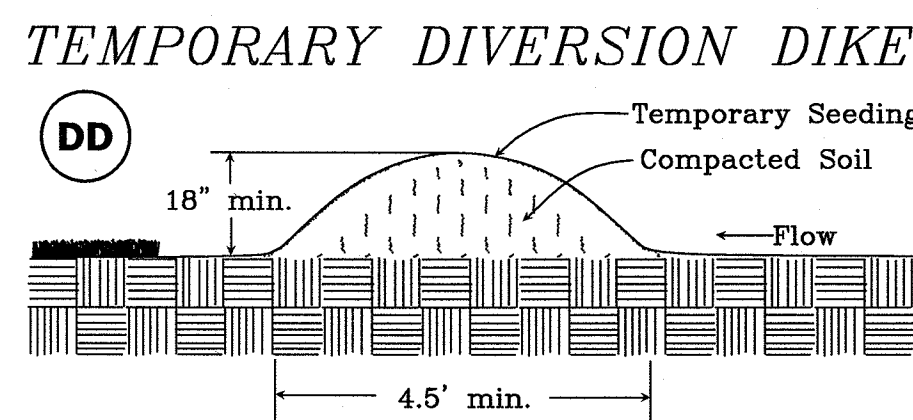
**NOTE:**

- 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/esw/e&s.htm#nrbubs>

**PS PERMANENT SEEDING SPECIFICATIONS**



**SF CONSTRUCTION OF A SILT FENCE**  
EROSION AND SEDIMENT CONTROL STANDARD - 3.05



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

C. When applying maintenance fertilizer on established sod,

**Pounds of nitrogen per 1,000 sq. ft. if the fertilizer is less than 50 percent WIN**

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	0
May	0-0.5	0-0.05	1	1
June	0	0	1	0
July/August	0	0	0	1
Yearly Lbs. N/1000 sq. ft.	2.5	2.5	2	2

**Pounds of nitrogen per 1,000 sq. ft. if the fertilizer is more than 50 percent WIN**

Month	Tall Fescue Perennial Rye	Kentucky Bluegrass	Bermudagrass	Zoysiagrass
August 15	1.5	1.5	0	0
October 1	1.5	1.5	0	0
April	0	0	1.5	1.5
May 15	0	0	0	0
June	0	0	1.5	1.5
Yearly Lbs. N/1000 sq. ft.	3	3	3	3

**FERTILIZER SPECIFICATIONS AND RATES FOR MANAGEMENT**

**TABLE 3.31-B**  
(Revised June 2003)  
**TEMPORARY SEEDING SPECIFICATIONS**  
**QUICK REFERENCE FOR ALL REGIONS**

APPLICATION DATES	SEED SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50-100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	60 (lbs/acre)

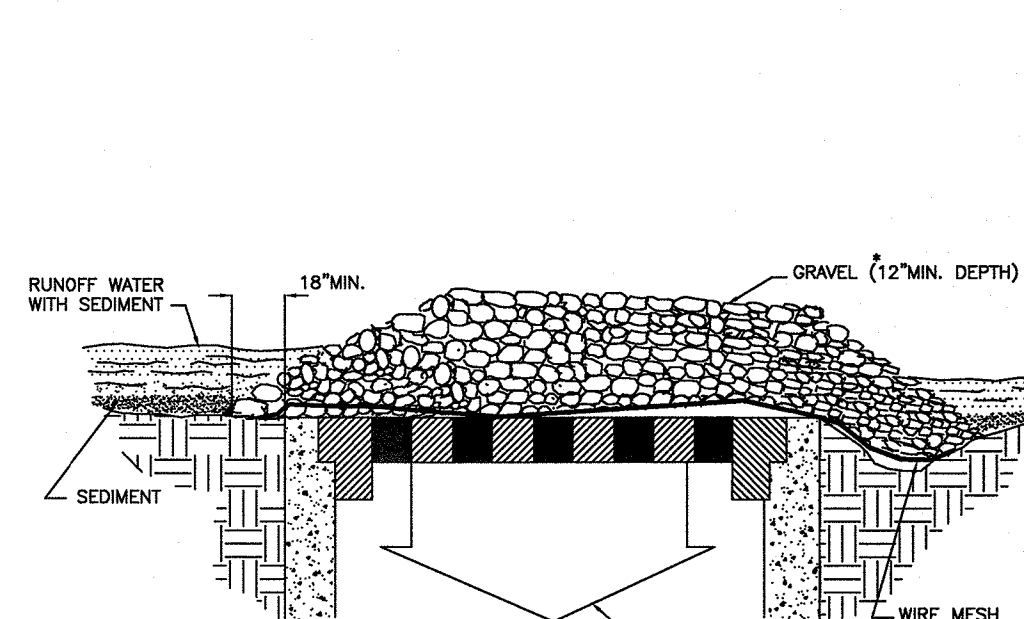
**FERTILIZER & LIME**

- Apply 10-10-10 fertilizer at a rate of 450 lbs. / acre (or 10 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/esw/e&s.htm#nrbubs>

**TS TEMPORARY SEEDING SPECIFICATIONS**



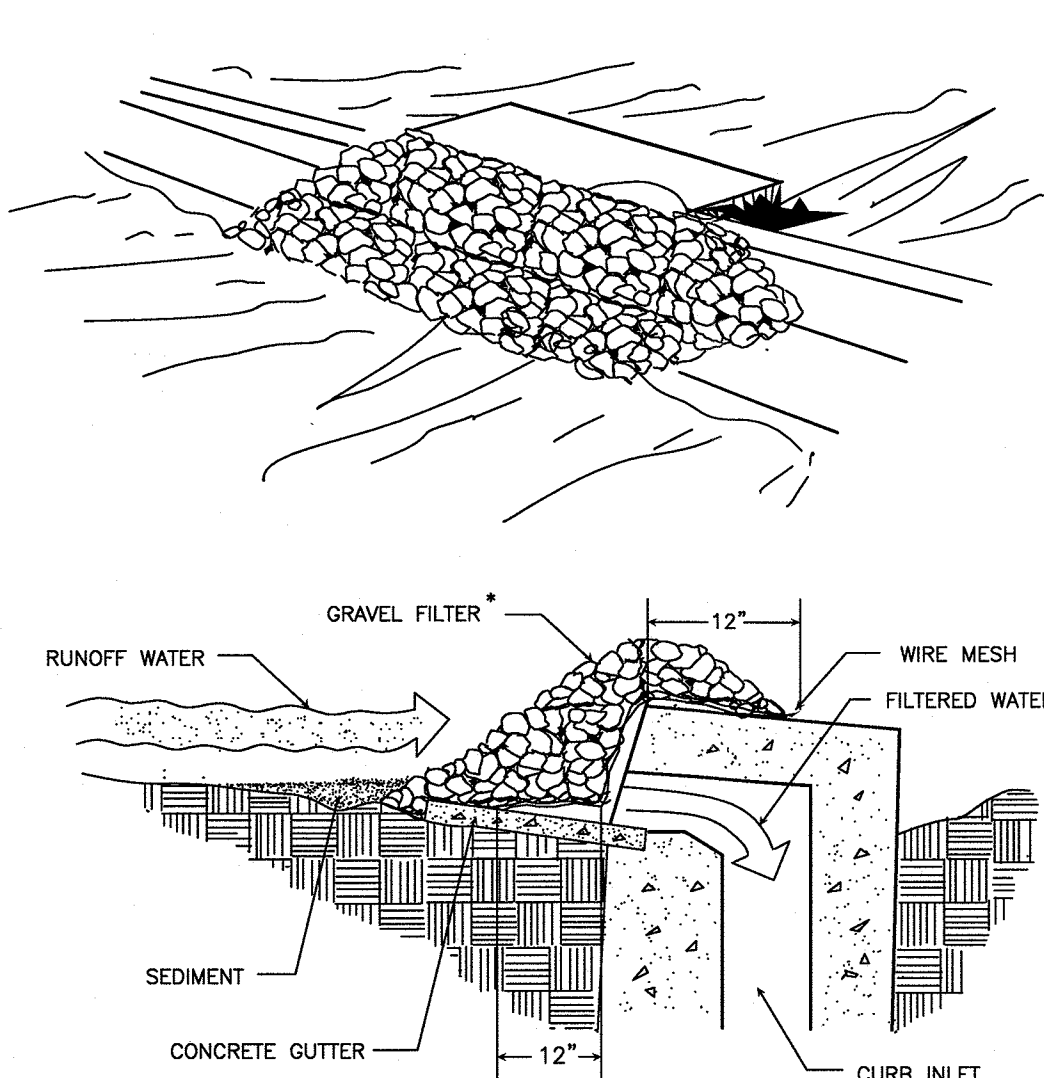
**SPECIFIC APPLICATION**

This method of inlet protection is applicable where heavy concentrated flows are expected, but not where ponding around the structure might cause excessive inconvenience or damage to adjacent structures and unprotected areas.

- Gravel shall be VDOT #3, #357 or #5 coarse aggregate.

**IP GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER**

**GRAVEL CURB INLET SEDIMENT FILTER**



**SPECIFIC APPLICATION**

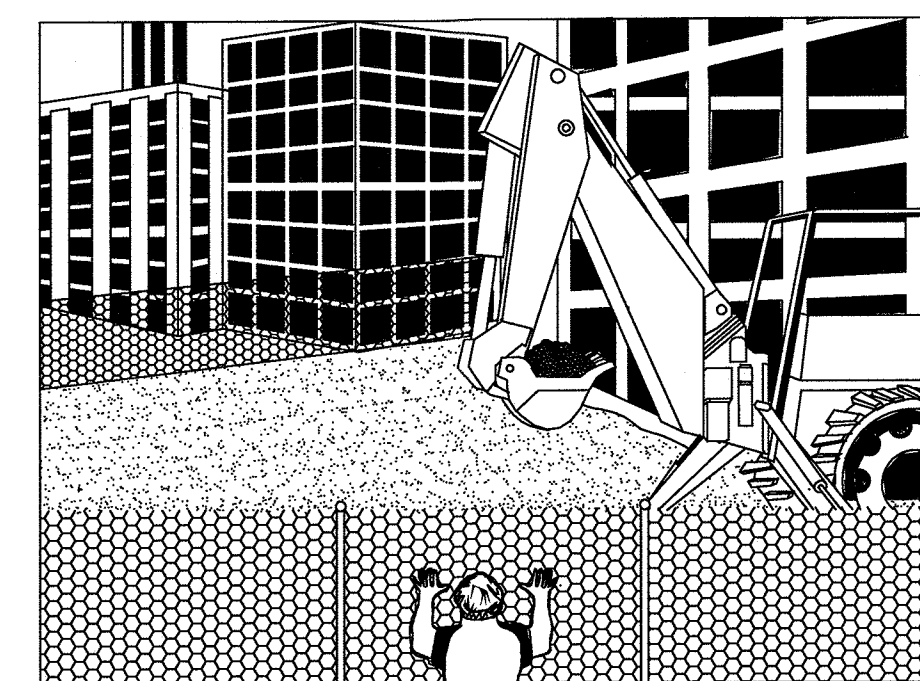
THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

- GRAVEL SHALL BE VDOT #3, #357 OR 5 COARSE AGGREGATE.

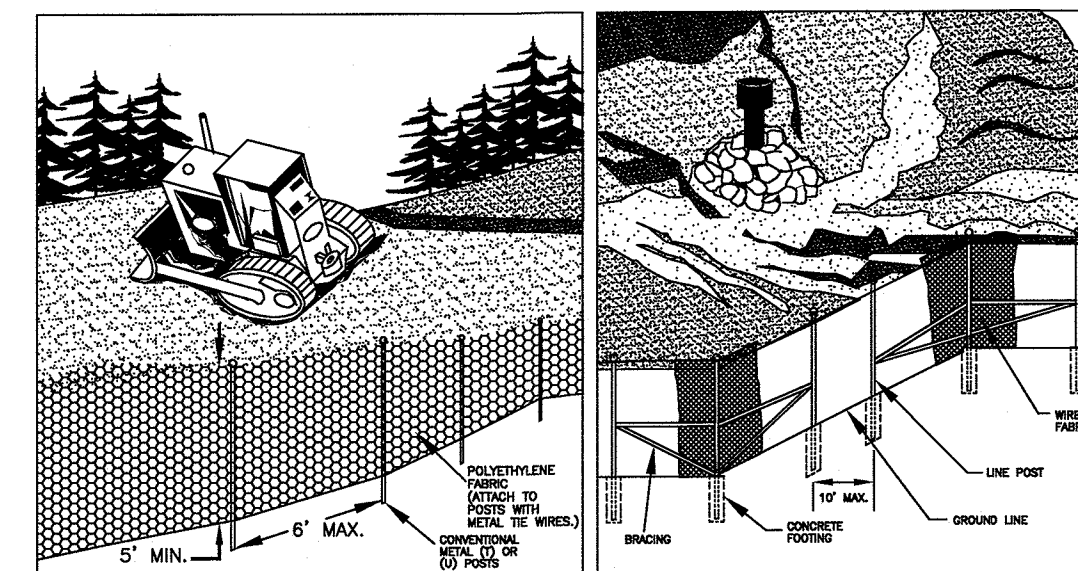
SOURCE: VA. DSWC

PLATE 3.07-6

**SAFETY FENCE**



**PERSPECTIVE VIEW**



**PERSPECTIVE VIEW PLASTIC FENCE**

**PERSPECTIVE VIEW METAL FENCE**

SOURCE: CONWED PLASTICS  
VDOT ROAD AND BRIDGE STANDARDS  
VA. DSWC

PLATE 3.1-1

[www.balzer.cc](http://www.balzer.cc)

Roanoke  
New River Valley  
Richmond  
Staunton  
Harrisonburg

RESIDENTIAL LAND DEVELOPMENT ENGINEERING  
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LAND SURVEYING  
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WETLAND DELINEATIONS & STREAM EVALUATIONS

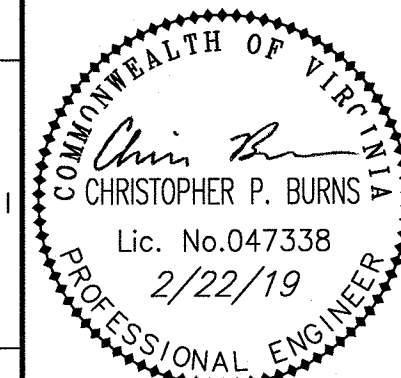
Balzer and Associates, Inc.

1208 Corporate Circle

Roanoke, VA 24018

540-772-9580

FAX 540-772-8050



**NORTH CROSS SCHOOL**

4254 COLONIAL AVENUE SW

**E.S.C. DETAILS**

CAVE SPRING DISTRICT  
ROANOKE COUNTY, VIRGINIA

DRAWN BY EUP

DESIGNED BY CPB

CHECKED BY CPB

DATE 12/20/2018

SCALE AS NOTED

REVISIONS:  
2/6/2019  
2/22/2019

SHEET NO.

**C10**

JOB NO. 03170003.01