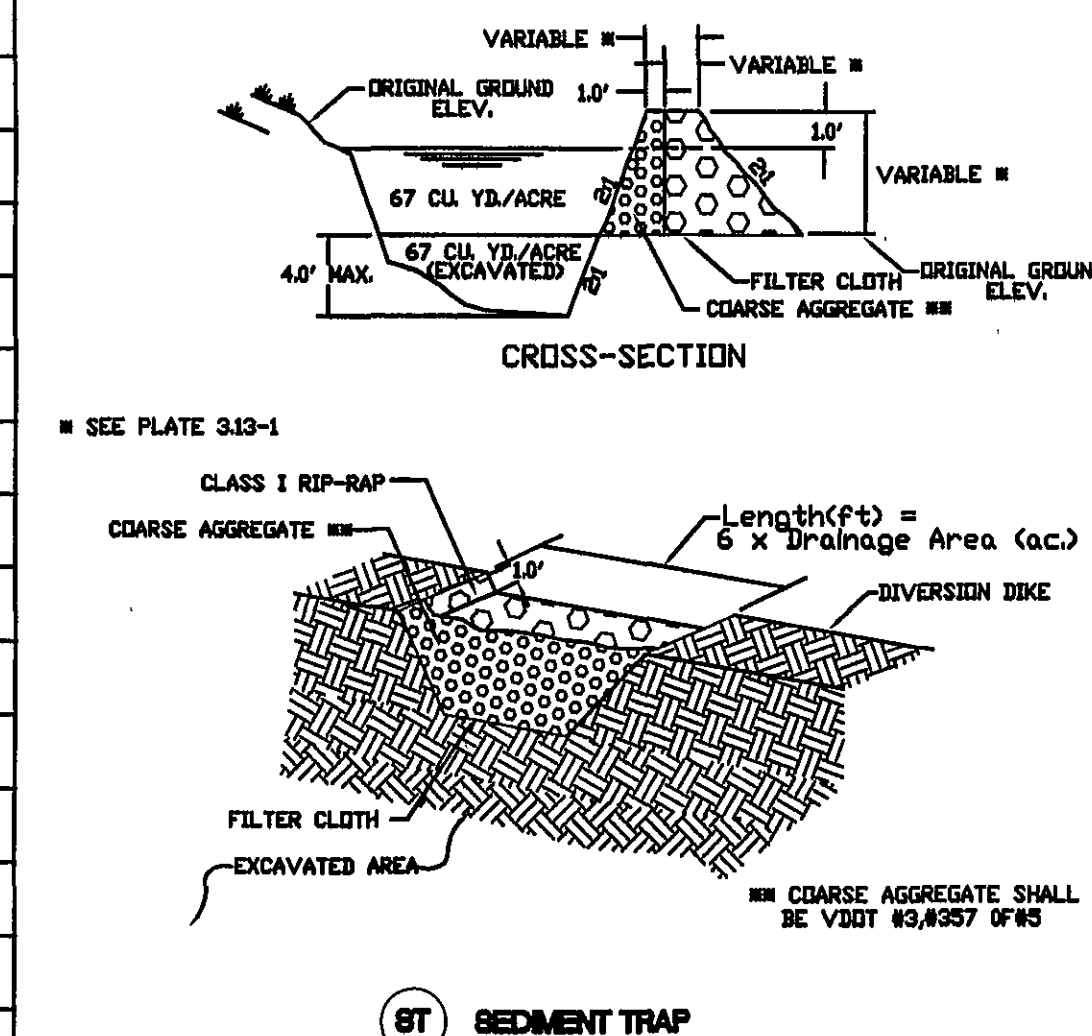
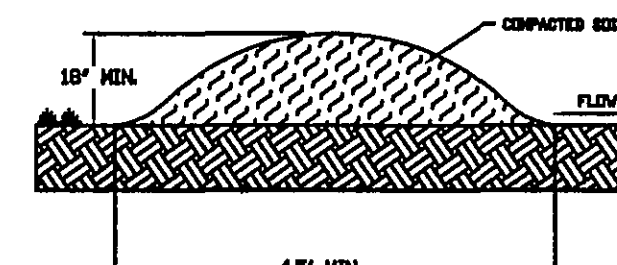
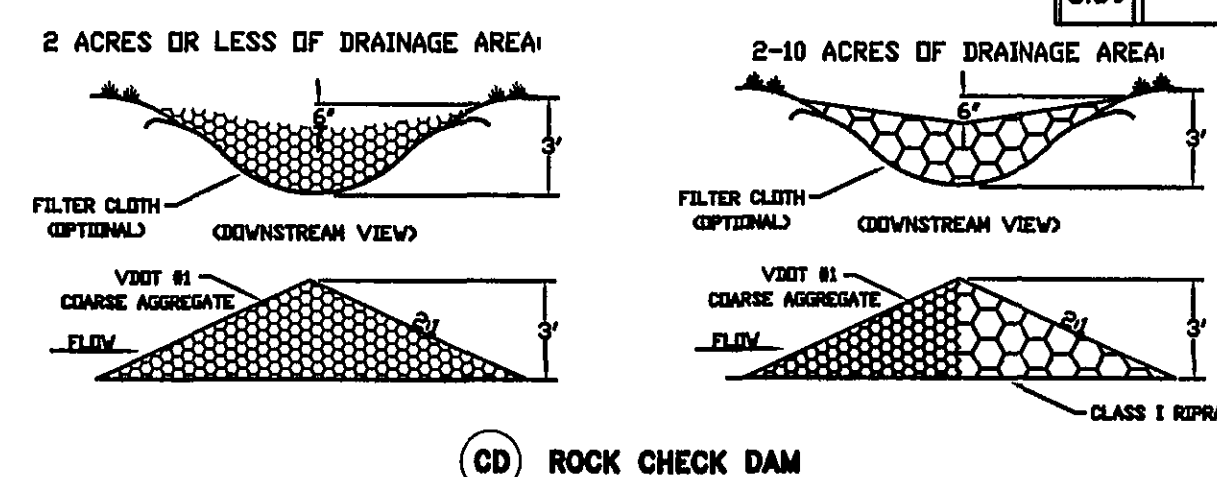






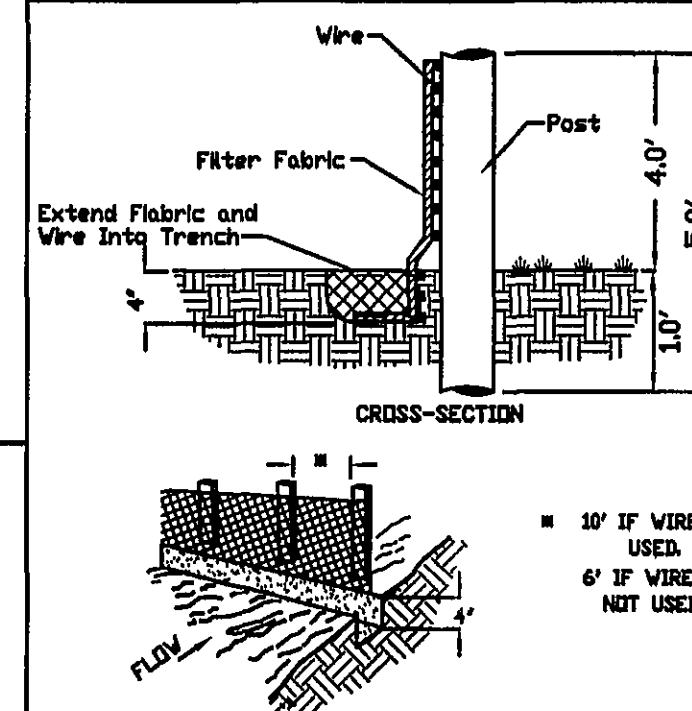
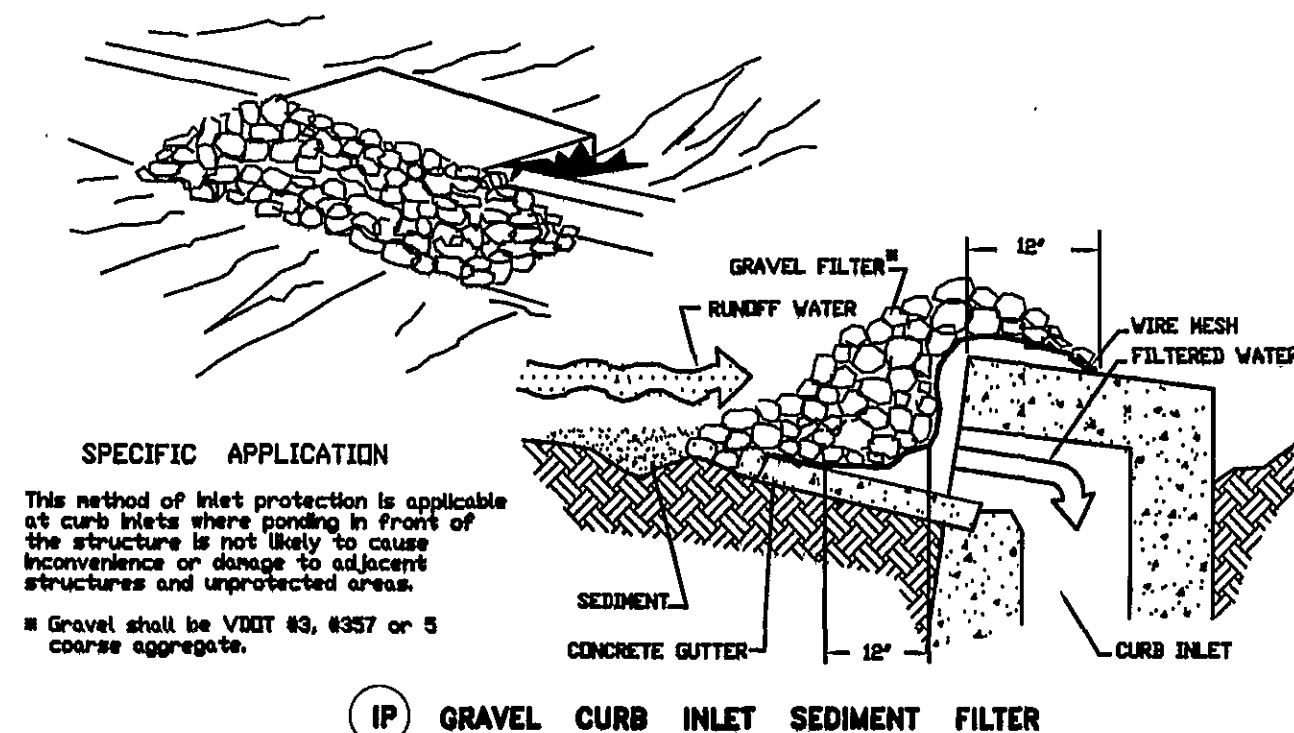
NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	(SAF)		3.20	ROCK CHECK DAMS	(CD)	
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	(CE)		3.21	LEVEL SPREADER	(LS)	
3.03	CONSTRUCTION ROAD STABILIZATION	(CRS)		3.22	VEGETATIVE STREAMBANK STABILIZATION	(VSS)	
3.04	STRAW BALE BARRIER	(STB)		3.23	STRUCTURAL STREAMBANK STABILIZATION	(SSS)	
3.05	SILT FENCE	(SF)		3.24	TEMPORARY VEHICULAR STREAM CROSSING	(VSC)	
3.06	BRUSH BARRIER	(BB)		3.25	UTILITY STREAM CROSSING	(USC)	
3.07	STORM DRAIN INLET PROTECTION	(IP)		3.26	DEWATERING STRUCTURE	(DS)	
3.08	CULVERT INLET PROTECTION	(CIP)		3.27	TURBIDITY CURTAIN	(TC)	
3.09	TEMPORARY DIVERSION DIKE	(DD)		3.28	SUBSURFACE DRAIN	(SD)	
3.10	TEMPORARY FILL DIVERSION	(FD)		3.29	SURFACE ROUGHENING	(SR)	
3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	(RWI)		3.30	TOPSOILING	(TO)	
3.12	DIVERSION	(DV)		3.31	TEMPORARY SEEDING	(TS)	
3.13	TEMPORARY SEDIMENT TRAP	(ST)		3.32	PERMANENT SEEDING	(PS)	
3.14	TEMPORARY SEDIMENT BASIN	(SB)		3.33	SODDING	(SD)	
3.15	TEMPORARY SLOPE DRAIN	(TSD)		3.34	BERMUDA GRASS AND ZOYSIAGRASS ESTABLISHMENT	(ZG)	
3.16	PAVED FLUME	(PF)		3.35	MULCHING	(MU)	
3.17	STORMWATER CONVEYANCE CHANNEL	(SCC)		3.36	SOIL STABILIZATION BLANKETS AND MATTING	(SM)	
3.18	OUTLET PROTECTION	(OP)		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	(VEG)	
3.19	RIPRAP	(RR)		3.38	TREE PRESERVATION AND PROTECTION	(TP)	
				3.39	DUST CONTROL	(DC)	



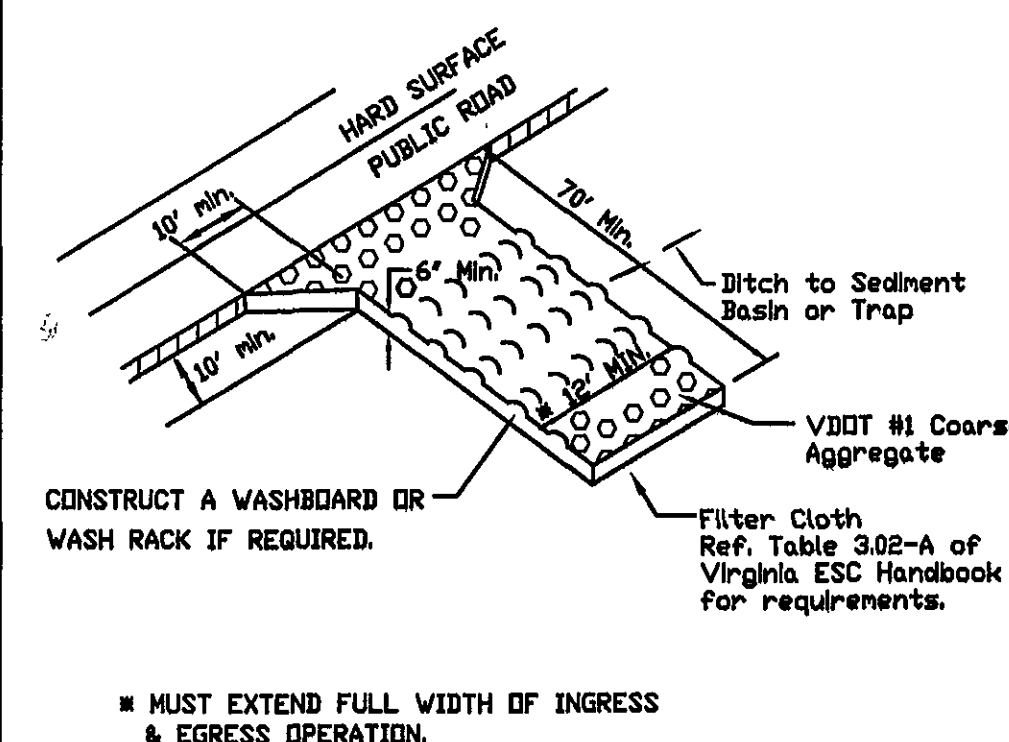
NOTE;  
FOR AREAS LESS THAN 3.0 ACRES. FOR AREAS  
LARGER THAN 3.0 ACRES A SEDIMENT BASIN  
IS REQUIRED, SEE DETAIL THIS SHEET.

[illegible]

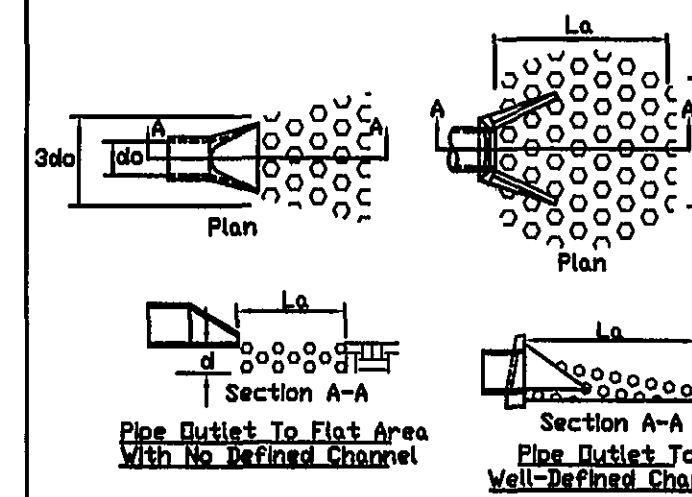
- 
**TEMPORARY DIVERSION DIKE**
- 
**TEMPORARY FILL DIVERSION**
- 
**TEMPORARY RIGHT-OF-WAY DIVERSION**
- 
**DIVERSION**



**(SF) CONSTRUCTION OF A SILT FENCE**



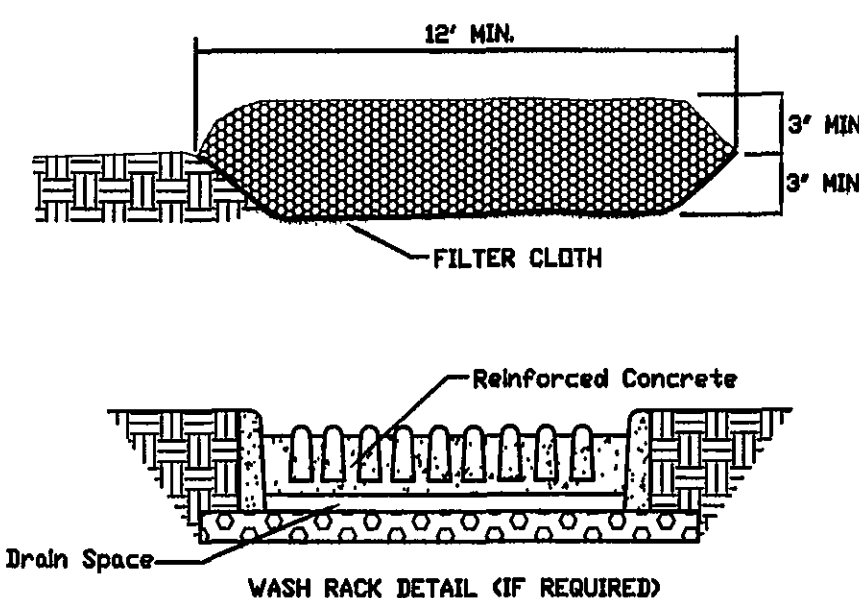
\* MUST EXTEND FULL WIDTH OF INGRESS  
& EGRESS OPERATION.



**OP OUTLET PROTECTION**

**NOTES**

1. Apron lining may be rip-rap, grouted rip-rap, or concrete.
2. La is the length of the rip-rap apron as calculated using plates 1.36d and 1.36e.
3. d = 1.5 times the maximum stone diameter, but not less than 6'.



**CE** TEMPORARY GRAVEL  
CONSTRUCTION ENTRANCE

## EROSION-SILTATION CONTROL COST ESTIMATE

ALL COSTS GIVEN ARE COMPLETE IN PLACE

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
CONSTRUCTION ENTRANCE	EA			
SILT FENCE	LF	300	\$ 4.00	\$ 1,200.00
INLET PROTECTION	EA	4	150.00	\$ 600.00
TEMPORARY DIVERSION DIKE	LF			
SEDIMENT TRAP	EA			
CHECK DAM	EA	1	250.00	\$ 250.00
PERMANENT SEEDING	1000 SF	10	55.00	\$ 550.00
TREE PROTECTION	EA		300.00	
CULVERT INLET PROTECTION	EA		150.00	
SUB-TOTAL				\$ 2,600.00
10% CONTINGENCY				\$ 250.00
TOTAL PROJECT COST				\$ 2,850.00

### GENERAL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS PRACTICAL.
4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. THESE SYMBOLS AND PRACTICES SHALL BE UTILIZED ON ALL EROSION CONTROL PLANS SUBMITTED TO BANGOR COUNTY.

**TS** TEMPORARY SEEDING MIXTURE

PLANTING DATES	SPECIES	RATE (LBS./ACRE)
SEPT. 1 - FEB. 15	50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTIFLORUM) * CEREAL (WINTER) RYE (SECALE CEREALE)	50 - 100
FEB. 16 - APR. 30	ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	60 - 100
MAY. 1 - AUG. 31	GERMAN MILLET (SETARIA ITALICA)	50

TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

**PS PERMANENT SEEDING MIXTURE**

<u>TYPE A</u>	<u>TYPE B (SLOPES 30 OR STEEPER)</u>
15 OCTOBER TO 1 FEBRUARY	15 MARCH TO 1 MAY
K-31 FESCUE @ 1/2 LB / 1000 SF	CROWN VETCH @ 1/2 LB / 1000 SF
BURLY WINTER RYE @ 1/2 LB / 1000 SF	PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
	RED TOP @ 1/8 LB / 1000 SF
1 FEBRUARY TO 1 JUNE	15 AUGUST TO 1 OCTOBER
K-31 FESCUE @ 5 LB / 1000 SF	CROWN VETCH @ 1/2 LB / 1000 SF
ANNUAL RYE @ 1/2 LB / 1000 SF	PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
1 JUNE TO 1 SEPTEMBER	RED TOP @ 1/8 LB / 1000 SF
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	

LIME: 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE

FERTILIZER: 5-20-10 @ 25 LB / 1000 SF

MULCH: IF REQUIRED, SHALL BE USE

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.

TOTAL DISTURBED AREA = 0.43 AC.

DEPARTMENT  
OF  
ENGINEERING AND INSPECTIONS

1	ENGR. & INSPEC.	04-10-93
2	ENGR. & INSPEC.	08-05-93
3	ENGR. & INSPEC.	10-27-93
4		
5		
6		
NO.	REVISIONS	DATE

COUNTY OF ROANOKE

DATE: 11/02/93

SCALE: NO SCALE

DRAWING BY: CLN AE

DESIGNED BY: G:\CAD\DETAILS\EROSION\EROSION\

APPROVED BY: GWS.III

EROSION & SEDIMENT CONTROL  
STORMWATER MANAGEMENT DETAILS

COMM. NO: 06-289

SHEET  
5  
OF  
5