

The diagram illustrates the design of a sediment trap. The top portion is a cross-section showing the trap's structure: a 4.0' MAX. deep excavation containing coarse aggregate (represented by a dotted pattern) and a filter cloth (represented by a cross-hatch pattern). The trap is 1.0' wide at the top and bottom. The original ground elevation is shown as a dashed line, and the original ground elevation is also indicated on the right. The trap is designed to handle 67 CU. YD./ACRE of excavated material. The bottom portion is a plan view showing the trap's layout. It includes a diversion dike (represented by a cross-hatch pattern) that directs flow into the trap. The trap is 1.0' wide. The length of the trap is determined by the formula: Length (ft) = 6 x Drainage Area (ac.). The trap is filled with coarse aggregate (dotted pattern) and a filter cloth (cross-hatch pattern). The excavated area is shown as a hatched pattern. A note indicates that the coarse aggregate shall be VDOT #3, #57 or #88.

VARIABLE

ORIGINAL GROUND ELEV.

1.0'

67 CU. YD./ACRE

4.0' MAX.

67 CU. YD./ACRE (EXCAVATED)

1.0'

FILTER CLOTH

COARSE AGGREGATE

ORIGINAL GROUND ELEV.

CROSS-SECTION

SEE PLATE 313-1

CLASS 1 RIP-RAP

COARSE AGGREGATE

Length (ft) = 6 x Drainage Area (ac.)

DIVERSION DIKE

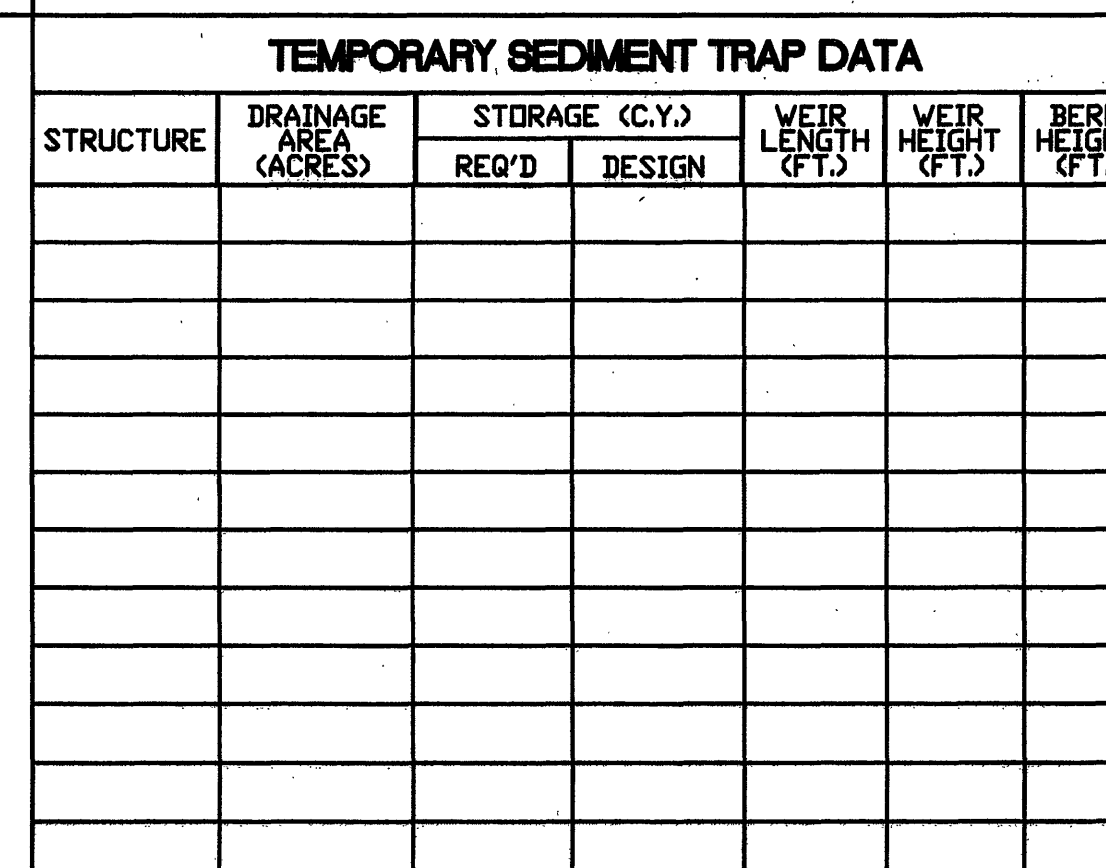
FILTER CLOTH

EXCAVATED AREA

COARSE AGGREGATE SHALL BE VDOT #3, #57 OR #88

ST SEDIMENT TRAP

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]

ALL COSTS GIVEN ARE COMPLETE IN PLACE				
DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
CONSTRUCTION ENTRANCE	EA	0	\$ 0	\$ 0
SILT FENCE	LF			
INLET PROTECTION	EA			
TEMPORARY DIVERSION DIKE	LF			
SEDIMENT TRAP	EA			
CHECK DAM	EA			
PERMANENT SEEDING	1000 SF			
TREE PROTECTION	EA			
CULVERT INLET PROTECTION	EA			
SUB-TOTAL				\$
10% CONTINGENCY				\$
TOTAL PROJECT COST				\$

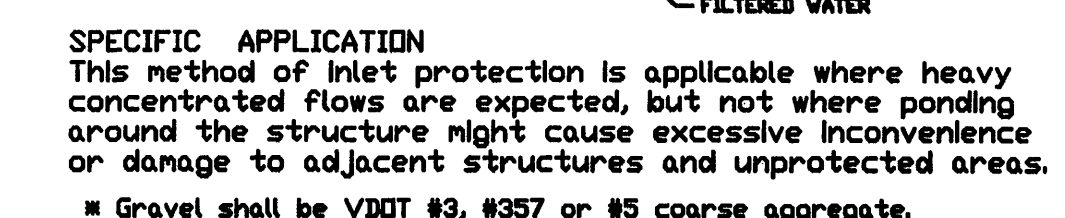
1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN 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 KEYS ARE TO BE UTILIZED ON ALL EROSION CONTROL SUBMITTALS.

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

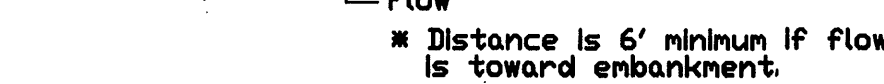
TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS FOR LONGER THAN 90 DAYS. LIMIT FOR AREAS LESS THAN 1 YEAR.

TYPE A	TYPE B (SLOPES 3:1 OR STEEPER)
15 OCTOBER TO 1 FEBRUARY K-31 FESCUE @ 1 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF	15 MARCH TO 1 MAY CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
1 FEBRUARY TO 1 JUNE K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF	15 AUGUST TO 1 OCTOBER CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
1 JUNE TO 1 SEPTEMBER K-31 FESCUE @ 5 LB / 1000 SF GERMAN MILLET @ 1/2 LB / 1000 SF	RED TOP @ 1/8 LB / 1000 SF RED TOP @ 1/8 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 38-0-0 @ 7 LB / 1000 SF	
MULCH: IF REQUIRED, SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE 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, FRABLE, SEEDBED.	
MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.	

TOTAL DISTURBED AREA = 0.7 AC.



IP GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



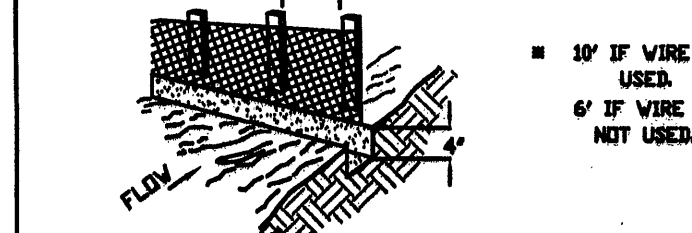
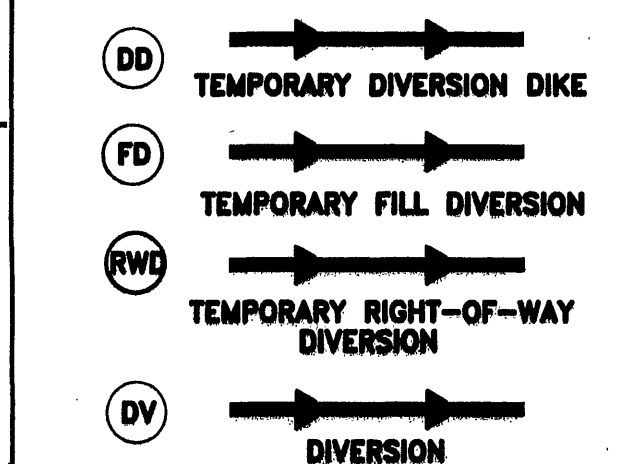
CIP SILT FENCE CULVERT INLET PROTECTION



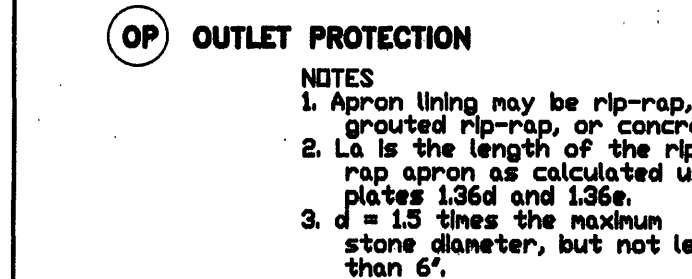
Diagram illustrating the required depth of a stormwater drain inlet. The diagram shows a cross-section of the inlet structure, including the drain pipe and the surrounding sediment layer. Key labels include:

- SEDIMENT-LADEN RUNOFF
- AS REQUIRED
- DEPTH BELOW TOP OF INLET: MIN. 2'-0" (610 mm)
- MAX. SLOPE 2:1
- VOID SPACES FOR DEWATERING
- LARGER PARTICLES WILL SETTLE
- STORM WATER WITH LARGER PARTICLES REMOVED
- DRAIN INLET

IP EXCAVATED DROP INLET SEDIMENT TRAP

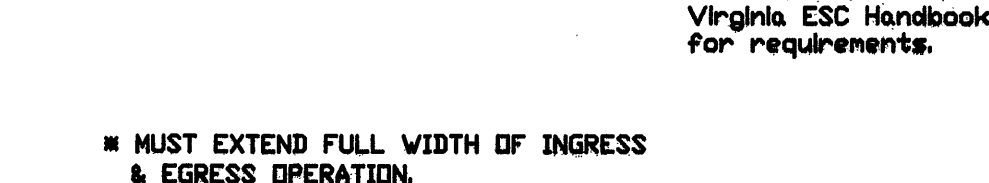


(SF) CONSTRUCTION OF A SILT FENCE



NOTES

1. Apron lining may be rip-rap, grouted rip-rap, or concrete.
2. L_a is the length of the rip-rap apron as calculated using plates 136d and 136e.
3. $d = 1.5$ times the maximum stone diameter, but not less than 6'.



■ MUST EXTEND FULL WIDTH OF INGRESS
& EGRESS OPERATION.



**CE TEMPORARY GRAVEL
CONSTRUCTION ENTRANCE**