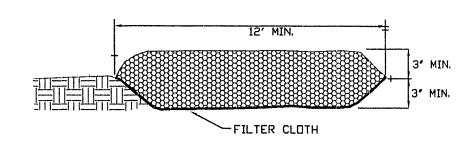
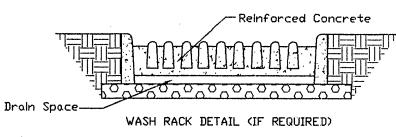
* MUST EXTEND FULL WIDTH OF INGRESS & EGRESS OPERATION.





TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

2 ACRES OR LESS OF DRAINAGE AREA

(DOWNSTREAM VIEW)

SPECIFIC APPLICATION

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 VDDT #3, #357 or 5

This method of inlet protection is applicable

WITH SEDIMENT

- SEDIMENT

to adjacent structures and unprotected areas.

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

SPECIFIC APPLICATION

FILTER CLOTH -

COARSE AGGREGATE

(OPTIONAL)

2-10 ACRES OF DRAINAGE AREA

(DOWNSTREAM VIEW)

FILTERED VATER

GRAVEL (12'MIN. DEPTH)

FILTERED

FILTER CLOTH -

COARSE AGGREGATE

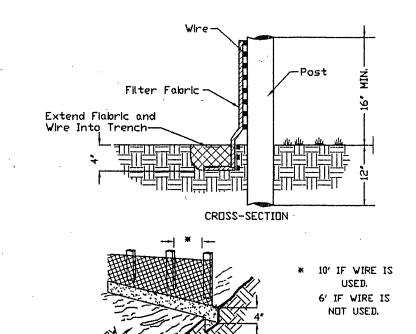
(OPTIONAL)

(CD) ROCK CHECK DAM

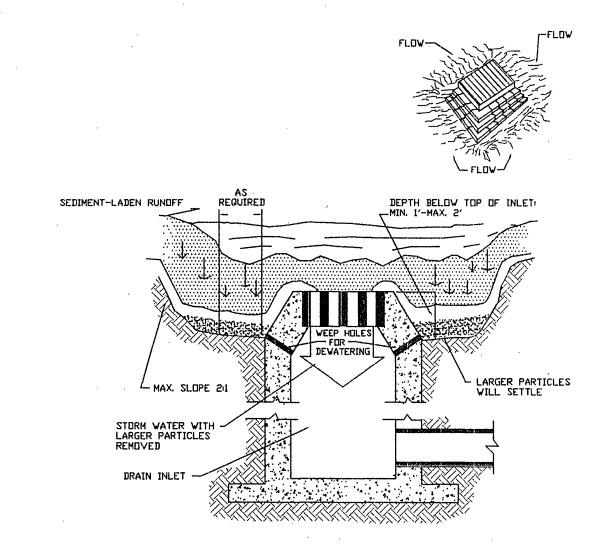
GRAVEL CURB INLET SEDIMENT FILTER

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

(IP) GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER



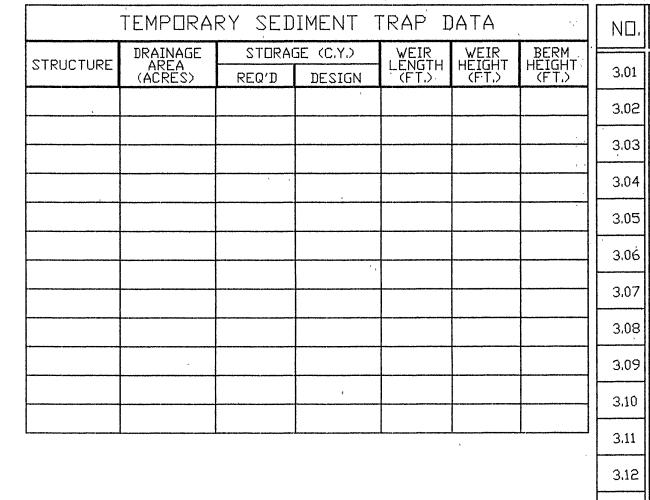
CONSTRUCTION OF A SILT FENCE

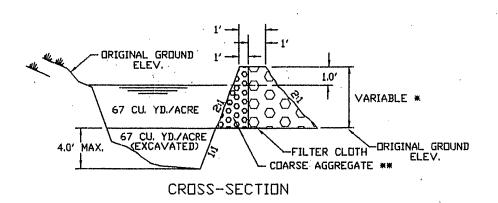


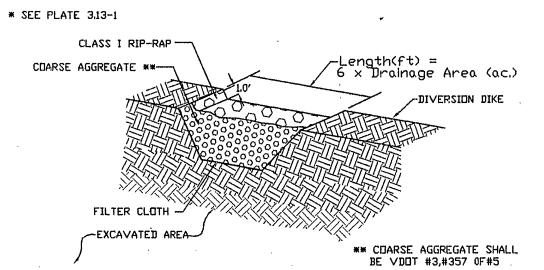
SPECIFIC APPLICATION

This method of inlet protection is applicable where heavy flows are expected and where an overflow capability and ease of maintenance are desirable.

(IP) EXCAVATED DROP INLET SEDIMENT TRAP

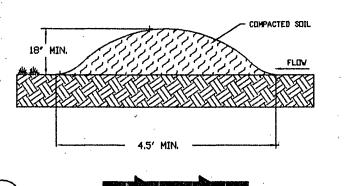


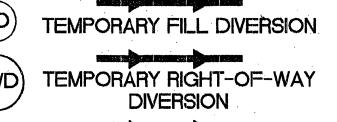




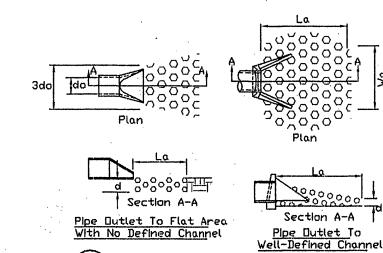
FOR AREAS LESS THAN 3.0 ACRES. FOR AREAS LARGER THAN 3.0 ACRES A SEDIMENT BASIN IS REQUIRED. SEE DETAIL THIS SHEET.

SEDIMENT TRAP





DIVERSION



OUTLET PROTECTION 1. Apron lining may be rip-rap,

grouted rip-rap, or concrete. 2. La 1s the length of the riprap apron as calculated using plates 1.36d and 1.36e. 3. d = 1.5 times the maximum stone dlameter, but not less than 6%.

GENERAL EROSION AND SEDIMENT CONTROL NOTES BOTETOURT COUNTY, VIRGNIA

SAFETY FENCE

TEMPORARY GRAVEL

CONSTRUCTION ENTRANCE

STRAW BALE BARRIER

SILT FENCE

BRUSH BARRIER

STORM DRAIN

INLET PROTECTION

CULVERT INLET PROTECTION(

TEMPORARY DIVERSION DIKE (D

TEMPORARY FILL DIVERSION(

TEMPORARY RIGHT-OF-WAY

DIVERSION

DIVERSION

TEMPORARY SEDIMENT TRAI

TEMPORARY SLOPE DRAIN

PAVED FLUME

STORMWATER CONVEYANCE

CHANNEL

OUTLET PROTECTION

RIPRAP

TEMPORARY SEDIMENT BASIN (S

CONSTRUCTION ROAD STABILIZATION

ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMEN' CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE ONSITE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE, AS WELL AS A COPY OF THE LAND DISTURBING PERMIT, SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. THE EROSION AND SEDIMENT CONTROL ADMINISTRATOR WILL DELIVER THESE MATERIALS AT THE ONSITE PRECONSTRUCTION

ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING THE LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.

ES-8: DURING DEWATERING OPERATION, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES
PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY
REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. AN INSPECTION REPORT MUST BE FILED WITH THE BOTETOURT COUNTY EROSION AND SEDIMENT CONTROL ADMINISTRATOR ONCE EVERY TWO WEEKS, BEGINNING WITH COMMENCEMENT OF THE LAND DISTURBING ACTIVITY, AND WITHIN 48 HOURS OF ANY RUNOFF-PRODUCING RAINFALL EVENT. FAILURE TO SUBMIT A REPORT WILL BE GROUNDS FOR IMMEDIATE REVOCATION OF THE LAND DISTURBING PERMIT. REPORTS MUST BE POSTMARKED WITHIN 24 HOURS OF THE DEADLINE: A STANDARD INSPECTION REPORT FORM WILL BE SUPPLIED, WHICH SHOULD BE COPIED AS NECESSARY. THIS PROVISION IN NO WAY WAIVES THE RIGHT OF BOTETOURT COUNTY PERSONNEL TO CONDUCT SITE INSPECTIONS, NOR DOES IT DENY THE RIGHT OF THE PERMITTEE (S) TO ACCOMPANY THE INSPECTOR (S).

MAINTENANCE

N GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED 91—WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. THE FOLLOWING ITEMS WILL BE

- 1. ALL SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR NECESSARY SEDIMENT REMOVAL.
- 2. ALL STORM DRAIN INLETS AND OUTLETS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP.
- 3. ALL SILT BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION.
- 4. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT GOOD STABILIZATION IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEEDED AS NEEDED. 5. A LOG OF DATES AND INSPECTIONS SHALL BE MAINTAINED ONSITE AT ALL TIMES, AND SHALL BE AVAILABLE FOR INSPECTION BY BOTETOURT COUNTY PERSONNEL ON DEMAND.
- 6. ANY SEDIMENTATION OF THE PUBLIC ROADWAY SHALL BE REMOVED DAILY.

TEMPORARY SEEDING

-X - X - X - X

68888888

TEMPORARY SEEDING SHALL BE APPLIED WITHIN SEVEN DAYS TO ANY DISTURBED SURFACE THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 30 DAYS TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM OR OFF-SITE AREAS, AND TO PROVIDE PROTECTION TO BARE SOILS EXPOSED DURING CON-STRUCTION UNTIL PERMANENT VEGETATION OR OTHER EROSION CONTROL MEASURES CAN BE ESTABLISHED.

TITLE

ROCK CHECK DAMS

LEVEL SPREADER

VEGETATIVE STREAMBANH

STABILIZATION

STRUCTURAL STREAMBANK

STABILIZATION

EMPORARY VEHICULAR

UTILITY STREAM CROSSING

DEWATERING STRUCTURE

TURBIDITY CURTAIN

SUBSURFACE DRAIN

TOPSOILING

TEMPORARY SEEDING

PERMANENT SEEDING

SODDING BERMUDA GRASS AND

YSIAURASS ESTABLISHMEN

SOIL STABILIZATION

LANKETS AND MATTING

MULCHING

TREES, SHRUBS, VINES

AND GROUND COVERS TREE PRESERVATION

AND PROTECTION

DUST CONTROL

SURFACE ROUGHENING

STREAM CROSSING

----(13)----

<u>----(31)</u>-----

(N)

----(P)----

PERMANENT STABILIZATION

ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING WITHIN 7 DAYS OR IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING WILL BE DONE ACCORDING TO STANDARD AND SPECIFICATION 3.32 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. PERMANENTLY SEEDED AREAS SHALL

PERMANENT SEEDING MIXTURE

ACCOMPANY THE INSPECTOR (S). Permanent Seeding:

Minimum Care Lawn: Per Acre

Commercial or Residential 200-250 Lb/Acre Kentucky 31 or turf type tall fescue Improved perennial rye grass* 0-10% Kentucky Bluegrass

High Maintenance Lawn: Minimum of three (3) up to five (5) varieties of blue grass from approved list for use in VA 125 Lb/Ac.

General Slope (3:1 or Less): Kentucky 31 Fescue 128 Lb./Ac. Red Top Grass 2 Lb./Ac. Seasonal Nurse Crop** 20 Lb./Ac. 150 Lb./Ac.

Low Maintenance Slope (Steeper than 3:1): Kentucky 31 Fescue 108 Lb./Ac. Red Top Grass 2 Lb./Ac. Seasonal Nurse Crop** 20 Lb./Ac. Crownvetch***

150 Lb./Ac. *Perennial rye grass will germinate faster and at a lower soll temperature than fescue, thereby providing cover and erosion resistance for seedbed.

**Use seasonal nurse crop in accordance with seeding dates as stated below: March, April thru May 15.... May 16th thru August 15th.. August 16 thru Sept., OctAnnual Rye .Winter Rye

***If Flatpea is used, increase to 30 Lb./Acre. All legume seed must be properly inoculated. Weeping Lovegrass may also be included in any slope or low maintenance mixture during warmer seeding periods; add 10-20 Lb./acre in mixes.

Lime shall be applied at a rate of 2 tons/acre pulverized agricultural grade limestone (90 lbs/1000 ft^2)

Fertilizer shall be applied at a rate of 1000 lbs/acre 10-20-10 or equivalent nutrients (23 lbs/ 1000ft^2)

Straw mulch shall be applied to all permanently seeded areas at a rate of ninety (90) pounds per one thousand square feet over the seeded area. Straw mulch shall be anchored or tacked down with string or other approved materials.

The contractor shall inspect seeded areas 2 weeks after seeding, at which time sparse areas shall be prepared and reseeded to establish permanent cover on all disturbed

Any areas not achieving adequate stabilization within one year will be restabilized. Permanent seeding shall be in accordance with specification 3.32 of the 1992 Virginia Erosion & Sediment Control Handbook.

AD. 0

6 JUNE 200

AS SHOWN

CADD FILE: 01307\ENG\DEV PLANS\01307Q0

SHEET 11 OF 12

01-307

No. 012656

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