NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF	SAF
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	CE	
3.03	CONSTRUCTION ROAD STABILIZATION	CRS	CRS
3.04	STRAW BALE BARRIER	STB	
3.05	SILT FENCE	SF	
3.06	BRUSH BARRIER	BB	
3.07	STORM DRAIN INLET PROTECTION	IP	
3.08	CULVERT INLET PROTECTION	CIP	
3.09	TEMPORARY DIVERSION DIKE	DD	DD
3.10	TEMPORARY FILL DIVERSION	FD	FD
3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	RWD	RWD
3.12	DIVERSION	DV	DV
3.13	TEMPORARY SEDIMENT TRAP	ST	
3.14	TEMPORARY SEDIMENT BASIN	SB	
3.15	TEMPORARY SLOPE DRAIN	TSD	TSD
3.16	PAVED FLUME	PF	PF
3.17	STORMWATER CONVEYANCE CHANNEL	SCC	
3.18	OUTLET PROTECTION	OP	
3.19	RIPRAP	RR	

NO.	TITLE	KEY	SYMBOL
3.20	ROCK CHECK DAMS	CD	
3.21	LEVEL SPREADER	LS	
3.22	VEGETATIVE STREAMBANK STABILIZATION	VSS	VSS
3.23	STRUCTURAL STREAMBANK STABILIZATION	SSS	SSS
3.24	TEMPORARY VEHICULAR STREAM CROSSING	VSC	VSC
3.25	UTILITY STREAM CROSSING	USC	USC
3.26	DEWATERING STRUCTURE	DS	
3.27	TURBIDITY CURTAIN	TC	
3.28	SUBSURFACE DRAIN	SD	
3.29	SURFACE ROUGHENING	SR	SR
3.30	TOPSOILING	TO	TO
3.31	TEMPORARY SEEDING	TS	TS
3.32	PERMANENT SEEDING	PS	PS
3.33	SODDING	SO	SO
3.34	BERMUDA GRASS AND ZOYSIAURASS ESTABLISHMENT	B/M	B OR M
3.35	MULCHING	MU	MU
3.36	SOIL STABILIZATION BLANKETS AND MATTING	BE/TE	TYPE 1, TYPE 2
3.37	TREES, SHRUBS, VINES AND GROUND COVERS	VEG	VEG
3.38	TREE PRESERVATION AND PROTECTION	TP	TP
3.39	DUST CONTROL	DC	DC

EROSION–SILTATION CONTROL COST ESTIMATE

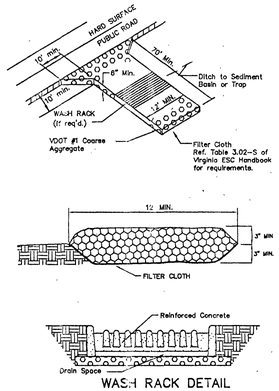
ALL COSTS GIVEN ARE COMPLETE IN PLACE

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
CONSTRUCTION ENTRANCE	EA		$	$
SILT FENCE	LF			
INLET PROTECTION	EA			
TEMPORARY DIVERSION DIKE	LF			
TEMPORARY FILL DIVERSION	LF			
SEDIMENT TRAP	EA			
CHECK DAM	EA			
PERMANENT SEEDING	1000			
SUB-TOTAL				$
10% CONTINGENCY				$
TOTAL PROJECT COST				$

NOT APPLICABLE

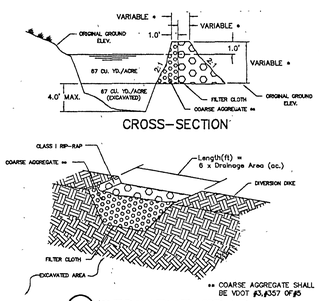
GENERAL EROSION AND SEDIMENT CONTROL NOTES

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.



WASH RACK DETAIL

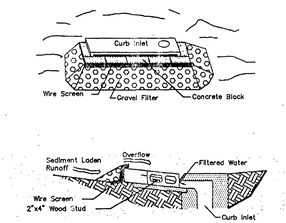
(CE) TEMPORARY GRAVEL CONSTRUCTION ENTRANCE



CROSS-SECTION

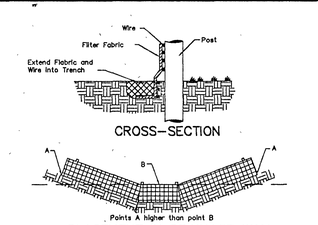
(ST) SEDIMENT TRAP

FABRIC DROP INLET SEDIMENT FILTER



BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER

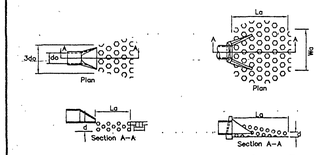
(IP) STORM DRAIN INLET PROTECTION



CROSS-SECTION

PLACEMENT IN DRAINAGE WAY

(SF) SILT FENCE



Pipe Outlet To Flat Area With No Defined Channel

Pipe Outlet To Well-Defined Channel

(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".

(PS) PERMANENT SEEDING MIXTURE

TYPE A

15 OCTOBER TO 1 FEBRUARY
K-31 FESCUE @ 5 LB / 1000 SF
BORZY WINTER RYE @ 1/2 LB / 1000 SF

1 FEBRUARY TO 1 JUNE
K-31 FESCUE @ 5 LB / 1000 SF
ANNUAL RYE @ 1/2 LB / 1000 SF

1 JUNE TO 1 SEPTEMBER
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

TYPE B (SLOPES 3:1 OR STEEPER)

15 MARCH TO 1 MAY
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 LB / 1000 SF

1 AUGUST TO 1 OCTOBER
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 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: 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, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

REVISED 9-22-94, per Roanoke County Utility Department

COMMONWEALTH OF VIRGINIA
FRANK B. CALDWELL, III
NO. 9184
PROFESSIONAL ENGINEER

EROSION & SILTATION CONTROL DETAILS
for
ROANOKE COUNTY WATER TREATMENT FACILITY
property of
ROANOKE COUNTY BOARD OF SUPERVISORS
situate U.S. ROUTE 11/460
COUNTY OF ROANOKE, VIRGINIA

DESIGNED BY J.V.JUDY
DRAWN BY JVJ/CADD
CHECKED BY F.B.C.
W.O. # 92-1085
N.B. G-94
TAX NO. ------
DATE MAR. 14, 1994

TPP&S
ENGINEERS
SURVEYORS
PLANNERS

T. P. PARKER & SON
816 Boulevard
Post Office Box 39
Salem, Virginia 24153
Telephone: 703-387-1153
FAX: 703-389-5767

INSPECTOR'S AS-BUILTS 1995

WVWA ID# 8LDLUZ