EXISTING SITE CONDITIONS
THE MAJORITY OF THE SITE HAS BEEN DEVELOPED INTO A CHURCH FACILITY CONSISTING OF A WORSHIP HALL, CLASSROOM BUILDING, ASSOCIATED PARKING AND DRIVE AREAS, AND AN EXISTING STORMWATER MANAGEMENT FACILITY. THE SITE ALSO HAS A GRASS SLOPE ALONG THE MAJORITY OF THE NORTHERN BORDER AND THE BACK/WEST PORTION.

ADJACENT AREAS
THIS DEVELOPMENT IS BORDERED TO THE WEST, NORTH, AND SOUTH BY ESTABLISHED RESIDENTIAL SUBDIVISIONS. TO THE EAST BY THE R.O.W. FOR KING STREET.

OTHER THAN THE OFFSITE IMPROVEMENTS (RIGHT AND LEFT TURN LANES) ALONG KING STREET, THERE AREA NO OFFSITE AREAS ASSOCIATED WITH THIS PROJECT.

24C--GROSECLOSE SILT LOAM, 7 TO 15 PERCENT SLOPES THIS SOIL IS STRONGLY SLOPING, VERY DEEP, AND WELL DRAINED. IT IS ON UPLANDS. SLOPES ARE SMOOTH AND COMPLEX. INDIVIDUAL AREAS ARE IRREGULAR IN SHAPE. THEY RANGE FROM 6 TO 25 ACRES IN SIZE.

5D--CHISWELL-LITZ COMPLEX, 15 TO 25 PERCENT SLOPES THIS MAP UNIT CONSISTS OF MODERATELY STEEP, WELL DRAINED SOILS ON UPLAND SIDE SLOPES AND SUMMITS. THE CHISWELL SOIL IS SHALLOW, AND THE LITZ SOIL IS MODERATELY DEEP. INDIVIDUAL AREAS ARE IRREGULAR IN SHAPE. THEY RANGE FROM 6 TO 40 ACRES IN SIZE. THE SOILS OCCUR AS AREAS SO INTERMINGLED THAT IT WAS NOT PRACTICAL TO MAP THEM SEPARATELY. THIS MAP UNIT IS ABOUT 45 PERCENT CHISWELL SOIL, 30 PERCENT LITZ SOIL, AND 25 PERCENT OTHER SOILS.

CRITICAL AREAS

THE CONTRACTOR SHALL TAKE SPECIAL CARE TO INSURE THAT THE EXISTING STORM DRAINAGE SYSTEM IS PROTECTED. INSURE THAT ALL PERIMETER ESC MEASURES ARE STABILIZED AND FUNCTIONING TO MINIMIZE THE POTENTIAL FOR ANY SEDIMENT LEAVING THE SITE ONTO ADJACENT PROPERTIES AND STREETS. AND THE PROPOSED DITCHES ARE

EROSION AND SEDIMENT CONTROL MEASURES

SILT FENCE (3.05) — SILT FENCE WILL BE INSTALLED AT THE LOWER ENDS OF THE PROJECT SITE TO INTERCEPT SEDIMENT LADEN RUN-OFF PRIOR TO EXITING THE SITE.

DIVERSION DIKE (3.09) — DIVERSION DIKES WILL BE INSTALLED TO DIVERT OFFSITE RUNOFF AROUND THE CONSTRUCTION AREA AND ALSO TO DIVERT SEDIMENT LADEN RUNOFF INTO

 $\underline{\text{TEMP R/W DIVERSION (3.11)}}$ — TEMPORARY DIVERSIONS SHALL BE INSTALLED TO DIVERT OFFSITE RUNOFF AROUND THE CONSTRUCTION AREA AND ALSO TO DIVERT SEDIMENT LADEN RUNOFF INTO THE SEDIMENT TRAPS

DIVERSION (3.12) - TEMPORARY DIVERSIONS SHALL BE INSTALLED TO DIVERT OFFSITE RUNOFF AROUND THE CONSTRUCTION AREA AND ALSO TO DIVERT SEDIMENT LADEN RUNOFF INTO THE SEDIMENT TRAPS.

SURFACE ROUGHENING (3.29) — ALL DISTURBED SLOPES STEEPER THAN 3:1 SHALL RECEIVE SURFACE ROUGHENING AS SHOWN ON THE PLAN.

TOPSOILING (3.30) — TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR FUTURE USE. TOPSOIL STOCKPILES SHALL BE PROTECTED BY SILT FENCE INSTALLED ALONG THE DOWNHILL SIDES AROUND THE STOCKPILE. TOPSOIL SHALL BE UNIFORMLY SPREAD OVER DISTURBED AREAS PRIOR TO PERMANENT SEEDING.

TEMPORARY SEEDING (3.31) — TEMPORARY SEEDING SHALL BE APPLIED TO TEMPORARY DIVERSION DIKES, TOPSOIL STOCKPILES, AND ALL AREAS TO BE ROUGH GRADED, BUT NOT FINISHED GRADED DURING THE INITIAL PHASE OF CONSTRUCTION. TEMPORARY SEEDING SHALL BE FAST GERMINATING. TEMPORARY VEGETATION AND INSTALLED IMMEDIATELY FOLLOWING GRADING, OR INSTALLATION IF A TEMPORARY MEASURE. SEE ALSO MINIMUM STANDARDS.

<u>PERMANENT SEEDING (3.32)</u> — PERMANENT SEEDING SHALL BE INSTALLED ON ALL DISTURBED AREAS OF THE SITE NOT OTHERWISE STABILIZED.

MULCHING (3.35) — ALL DISTURBED AREAS SHALL BE MULCHED AFTER SEEDING. STRAW MULCH SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE AND ANCHORED WITH 750 LBS PER ACRE OF FIBER MULCH OVER THE SEEDED AREA.

THE DEVELOPMENT OF THIS PROPERTY WILL RESULT IN A NET INCREASE IN RUNOFF; WHEN INCLUDING THE IMPROVEMENTS IN THE R.O.W. OF KING STREET. A PRIVATE STORMWATER MANAGEMENT FACILITY IS PROPOSED WITH RELEASE RATES IN ACCORDANCE WITH ROANOKE CITY STORMWATER MANAGEMENT STANDARDS. FOR ADDITIONAL INFORMATION PLEASE SEE THE STORMWATER MANAGEMENT CALCULATIONS.

STORMWATER MANAGEMENT

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. A LOG OF DATES AND INSPECTIONS SHALL BE KEPT. ANY DEFICIENCIES THAT ARE FOUND SHALL BE CORRECTED IMMEDIATELY. IN PARTICULAR:

THE SEDIMENT TRAP WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. CLEAN OUT AS NECESSARY TO MAINTAIN DESIGN VOLUMES. INLET PROTECTION WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED OR REPLACED.

THE SILT FENCE WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT BUILDUP REACHES THE MIDWAY POINT OF THE SILT FENCE.

THE CONSTRUCTION ENTRANCE WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED, OR ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS.

NO. SYMBOL TEMPORARY GRAVEL 3.02 CONSTRUCTION ENTRANCE CONSTRUCTION ROAD STABILIZATION 3.05 SILT FENCE -x -x -x -x STORM DRAIN 3.07 INLET PROTECTION TEMPORARY DIVERSION DIKE (TEMPORARY RIGHT-OF-WAY DIVERSION ❷ DIVERSION 3.13 TEMPORARY SEDIMENT TRAP ---SURFACE ROUGHENING TOPSOILING TEMPORARY SEEDING —(B—

PERMANENT SEEDING

MULCHING

CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE FOLLOWING MINIMUM STANDARDS:

MS-1: THOUGH TS / PS LABELS ARE SHOWN GENERICALLY ON THE PLANS, THE CONTRACTOR SHALL SEED ALL AREAS NOT INDICATED TO BE OTHERWISE STABILIZED WITH PERMANENT SEED MIXTURE WITHIN 7 DAYS OF REACHING FINAL GRADE OR WITH TEMPORARY SEED MIXTURE ANY AREA YET TO REACH FINAL GRADE BUT THAT IS NOT PROPOSED TO BE ACTIVELY INVOLVED IN THE WORK WITHIN 30 DAYS. THESE SEED MIXTURES AND APPLICATION SPECIFICATIONS ARE SHOWN HEREON. THE CONTRACTOR SHALL HONOR THE CLEARING AND GRADING LIMITS SHOWN

MS-2: THE CONTRACTOR SHALL STABILIZE WITH TS AND PROTECT FROM EROSION, WITH ANY APPLICABLE METHOD, ALL STOCKPILES AND ANY ON-SITE OR OFF-SITE BORROW OR SPOIL AREAS, AS APPLICABLE. APPROVAL OF THIS PLAN DOES NOT COVER OFF-SITE BORROW OF SPOIL AREAS. 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 FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.

MS-3: WHERE TS/PS ARE NOT APPLICABLE PROVIDE OTHER MEANS OF STABILIZATION (CRS, ETC.) WITHIN 7 DAYS OF REACHING FINAL GRADE OR WITHIN 30 DAYS WHERE THE AREA IS YET TO REACH FINAL GRADE BUT IS NOT PROPOSED TO BE ACTIVELY INVOLVED IN THE WORK.

MS-4: ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED IN ADVANCE OF THE WORK THEY ARE INTENDED TO PROTECT. MS-5: EARTHEN CONTROLS AND STRUCTURES SHALL BE STABILIZED IMMEDIATELY UPON

MS-6: WHERE A SEDIMENT TRAP (<3 ACRES OF DRAINAGE) OR SEDIMENT BASIN (>3 ACRES OF DRAINAGE) ARE INDICATED CALCULATIONS SHOWN ARE BASED ON OUTLINED DRAINAGE AREAS. CONTRACTOR SHALL HONOR INDICATED DRAINAGE DIVIDES AND CONFORM TO VOLUMES, DETAILS, ETC. PROVIDED ON PLANS.

MS-7: CARE HAS BEEN TAKEN IN DESIGN TO MINIMIZE DRAINAGE OVER SLOPES AND PROVIDE A SUITABLE PROTECTIVE STABILIZATION METHOD. CONTRACTOR SHALL PROTECT SLOPE AREAS DURING AND AFTER CONSTRUCTION FROM CONCENTRATED RUNOFF AND THE EROSION EFFECTS OF WIND AND RAIN. STABILIZE AS SOON AS PRACTICAL TO MINIMIZE EROSION.

MS-8: WHERE CONCENTRATED RUNOFF HAS BEEN ROUTED DOWN SLOPES CARE HAS BEEN TAKEN TO DESIGN AN ADEQUATE CHANNEL OR DRAIN. CONTRACTOR SHALL INSTALL THESE MEASURES ALONG WITH THEIR STABILIZATION AS SOON AS PRACTICAL TO PROTECT SLOPE. NOT APPLICABLE: NO CHANNELS OR DRAINS ARE PROPOSED OVER SLOPES.

MS-9: NOT APPLICABLE; SEEPAGE THROUGH SLOPES IS NOT ANTICIPATED TO BE ENCOUNTERED ON THIS PROJECT.

MS-10: INLET OR CULVERT INLET PROTECTION IS PROPOSED FOR THE INLETS OF ALL STORM SEWERS OR CULVERTS ON-SITE. RLD SHALL INSURE PROPER INSTALLATION AND ASSURE ADEQUATE SIZING BASED ON DRAINAGE AREA OF EACH INLET.

MS-11: RLD SHALL VERIFY THAT ADEQUATE CHANNEL LININGS AND PROPER OUTLET PROTECTION IS IN PLACE PRIOR TO OPERATION OF STORM SEWER SYSTEM.

MS-12: WHEN WORKING IN AND AROUND A LIVE WATERCOURSE, THE CONTRACTOR SHALL TAKE GREAT CARE TO MINIMIZE IMPACT ON THE STREAM. ASSURE THAT PROPER PERMITS FROM DEQ / USACOE ARE IN HAND PRIOR TO COMMENCING SUCH WORK. NOT APPLICABLE - NO STREAM IMPACTS ARE PROPOSED WITH THIS DEVELOPMENT.

MS-13: WHERE MORE THAN 2 TRIPS IN 6 MONTHS ARE EXPECTED ACROSS A LIVE WATERCOURSE OBTAIN THE NECESSARY PERMIT AND INSTALL A TEMPORARY STREAM CROSSING. NOT APPLICABLE - NO JURISDICTIONAL STREAM CROSSINGS ARE PROPOSED WITH THIS

MS-14: OTHER FEDERAL, STATE, AND LOCAL REGULATIONS MUST BE MET WHEN WORKING IN LIVE WATERCOURSES. NOT APPLICABLE - NO WORK IS PROPOSED WITHIN JURISDICTIONAL

MS-15: THE BED AND BANKS OF DISTURBED WATERCOURSES MUST BE STABILIZED IMMEDIATELY. NOT APPLICABLE - NO WORK IN JURISDICTIONAL WATERCOURSES IS PROPOSED.

MS-16: REGARDING UTILITY INSTALLATIONS, NO MORE THAN 500 LF OF TRENCH MAY BE OPEN AT A GIVEN TIME. EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF TRENCH. EFFLUENT OF ANY DEWATERING SYSTEM USED MUST BE FILTERED. TRENCHES SHALL BE PROPER BACKFILLED AND COMPACTED PER DETAIL AND SPECS. COMPLETED INSTALLATION SHALL BE RE-STABILIZED IMMEDIATELY.

MS-17: THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND / OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE STREETS ARE IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.

MS-18: SEE MAINTENANCE UNDER ESC NARRATIVE FOR CE, IP, SF, AND TS/PS AT A MINIMUM. RESPONSIBLE LAND DISTURBER SHALL PAY PARTICULAR ATTENTION TO OFF-SITE AREAS CONTRIBUTING RUNOFF TO THE SITE, OFF-SITE LOCATIONS RECEIVING RUNOFF FROM THIS PROJECT, AND PROPER OPERATION OF STORMWATER MANAGEMENT PRACTICES ON-SITE. ALL DITCHES, SWALES, AND NATURAL WATERCOURSES DOWNSTREAM OF THIS PROJECT SHALL BE FIELD INSPECTED DURING AND AFTER CONSTRUCTION BY THE RLD TO ENSURE COMPLIANCE WITH

DCR'S MS-19. IF EROSION OR SCOUR IS OCCURRING THE DEVELOPER SHALL BE RESPONSIBLE

GENERAL EROSION AND SEDIMENT CONTROL NOTES, ROANOKE CITY, VIRGINIA

FOR ALL CORRECTIVE MEASURES.

FINAL STABILIZATION IS ACHIEVED.

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 SEDIMENT 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 CONFERENCE. 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. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION

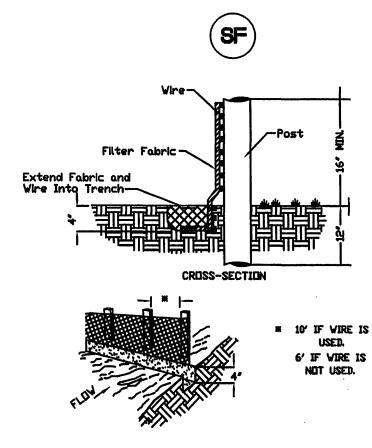
THE PLAN APPROVING AUTHORITY. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING THE LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL

CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY

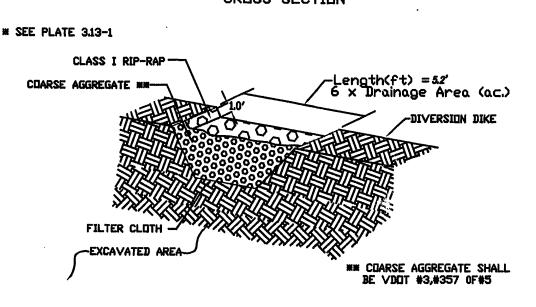
ES-8: DURING DEWATERING OPERATION, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.

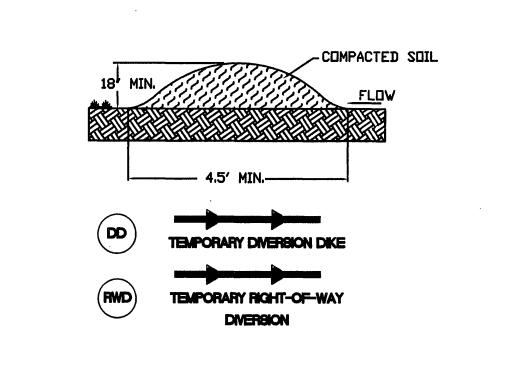
THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE MMEDIATELY. AN INSPECTION REPORT MUST BE FILED WITH THE ROANOKE CITY EROSION 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 ROANOKE CITY PERSONNEL TO CONDUCT SITE INSPECTIONS, NOR DOES IT DENY THE RIGHT OF THE PERMITTEE (S) TO ACCOMPANY THE INSPECTOR (S).

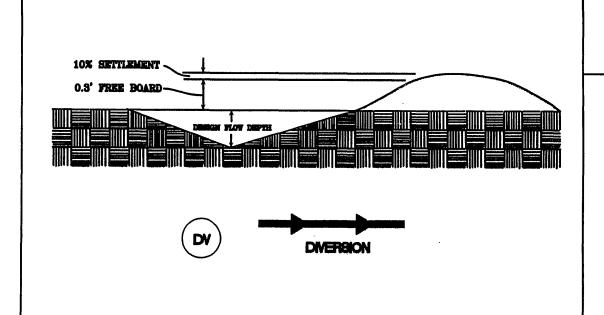
CONSTRUCTION OF A SILT FENCE



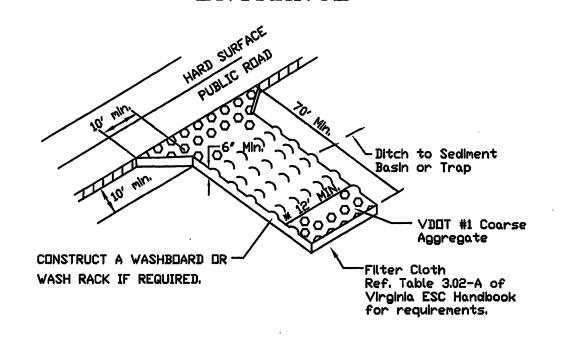
TEMPORARY SEDIMENT TRAP VARIABLE * 57 CU. YD./ACRE FILTER CLOTH-DRIGINAL GROUND - COARSE AGGREGATE *** CRUSS-SECTION



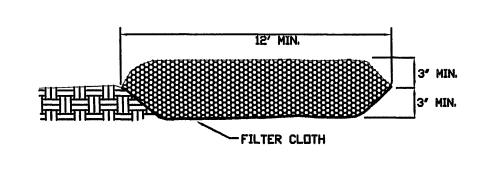


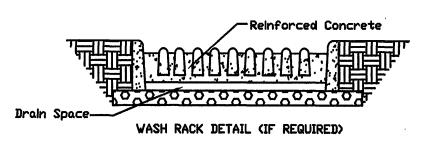


STONE CONSTRUCTION **ENTRANCE**



* MUST EXTEND FULL WIDTH OF INGRESS & EGRESS OPERATION.





PERMANENT SEEDING MIXTURE

TYPE A TYPE B (SLOPES 3:1 OR STEEPER) 15 OCTOBER TO 1 FEBRUARY 15 MARCH TO 1 MAY K-31 FESCUE • 5 LB / 1000 SF CROWN VETCH • 1/2 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF PERENNIAL RYEGRÁSS • 1/2 LB / 1000 SF RED TOP • 1/8 LB / 1000 SF FEBRUARY TO 1 JUNE K-31 FESCUE © 5 LB / 1000 SF 15 AUGUST TO 1 OCTOBER ANNUAL RYE • 1/2 LB / 1000 SF CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS • 1/2 LB / 1000 SF RED TOP • 1/8 LB / 1000 SF I 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 140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE 38-0-0 • 7 LB / 1000 SF

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

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.

<u>TEMPORARY SEEDING MIXTURE</u>

ANNUAL RYEGRASS

PLANTING DATES SPECIES

SEPT. 1 — FEB. 15

FEB. 16 - APR. 30

(LBS./ACRE) 50/50 MIX OF ANNUAL 50 - 100 RYEGRASS (LOLIUM MULTI—FLORUM)

60 - 100

CEREAL (WINTER) RYE (SECALE CEREALE)

(LOLIUM MULTI-FLORUM) MAY. 1 - AUG. 31 (SETARIA ITALICA)

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.

ALL COSTS GIVEN ARE COMPLETE IN PLACE QUANTITY UNIT COST DESCRIPTION UNIT CONSTRUCTION ENTRANCE EACH \$1,000.00 L.F. \$4.00 SILT FENCE 823 EACH \$200.00 NLET PROTECTION EACH \$200.00 CULVERT INLET PROTECTION TEMPORARY DIVERSION DIKE L.F. 631 \$3.00 EACH \$1,500.00 SEDIMENT TRAP EACH \$150.00 CHECK DAM TEMPORARY & PERMANENT SEEDING, ACRE \$1,500.00 MULCHING, ETC. OUTLET PROTECTION EACH \$300.00 EACH \$6,000.00 SEDIMENT BASIN 0 \$3.00 L.F. 30 ROW DIVERSION SUB-TOTAL

25% CONTINGENCY

SPECIFIC APPLICATION

This method of inlet protection is applical at curb inlets where ponding in front of the structure is not likely to cause

inconvenience or damage to adjacent structures and unprotected areas.

coarse aggregate.

are desirable.

Gravel shall be VDIT #3, #357 or 5

This method of inlet protection is applicable

where heavy flows are expected and where

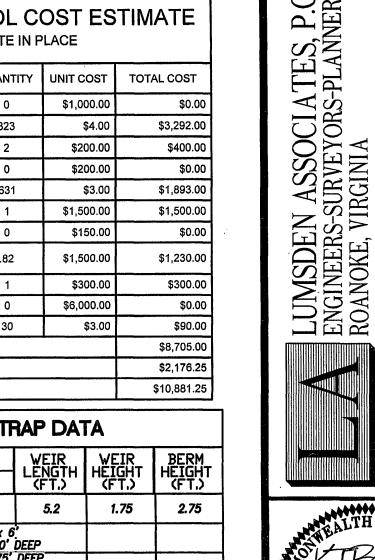
STORM VATER VITH LARGER PARTICLES REMOVED

an overflow capability and ease of maintenance

OTAL PROJECT COST

EROSION & SEDIMENT CONTROL COST ESTIMATE

	TEMPOF	PARY SEI	DIMENT T	RAP DA	ΓΑ	
STRUCTURE	DRAINAGE AREA (ACRES)	STORAGE (C.Y.)		WEIR LENGTH	WEIR	BERM
		REQ'D	DESIGN	(FT.)	WEIR HEIGHT (FT.)	BERM HEIGHT (FT.)
1	0.9	115	157	5.2	1.75	2.75
	<u> </u>	BOTTOM OF OP OF WET == OP OF DRY =	WET = 75' x 83' x 14', 2.0' 90' x 21', 1.75	6' DEEP DEEP		



ANE ONTI DET SIO NT ANE ERO DIMEI TES

KEVIN T. BARNES

Cert. No. 000767

3.26.2009

DEM O NOS

NONE COMMISSION NO:

(IP) GRAVEL CURB INLET SEDIMENT FILTER

EXCAVATED DROP INLET SEDIMENT TRAP

FILTERED WATER

APPROVED

MAR 31 2009

2008-210 SHEET 10 OF 13

3.35