

MINIMUM STANDARDS

Yes No NA

[X] [] [] MS-1 TEMPORARY AND PERMANENT SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS TO REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE LEFT DORMANT FOR MORE THAN 1 YEAR. PRACTICES ARE SHOWN ON THE PLAN AND ADDRESSED IN THE NARRATIVE. TEMPORARY AND PERMANENT SEED SPECIFICATIONS ARE PROVIDED. LIME, FERTILIZER, AND MULCHING ARE ADDRESSED. DISTURBED AREAS TO RECEIVE PAVEMENT OR STONE ARE SHOWN ON THE PLAN.

[] [] [X] MS-2 DURING CONSTRUCTION, STOCKPILES, BORROW AREAS, AND DISPOSAL AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE SITE. NO STOCKPILES ARE PLANNED FOR THIS PROJECT. THE SITE IS BALANCED TO THE BEST EXTEND POSSIBLE. NO OFFSITE MATERIAL IS ANTICIPATED.

[X] [] [] MS-3 PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. UNIFORM GROUND COVER, MATURE ENOUGH TO SURVIVE AND INHIBIT EROSION IS CONSIDERED PERMANENT VEGETATION. THE ESTABLISHMENT AND MAINTENANCE OF PERMANENT VEGETATIVE STABILIZATION BEEN ADDRESSED IN THE NARRATIVE.

[X] [] [] MS-4 INSTALL SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT, CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY, AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. SEDIMENT TRAPPING FACILITIES ARE SHOWN ON THE PLAN, SPECIFIED IN THE NARRATIVE, AND SPECIFICALLY STATED TO BE INSTALLED AS A FIRST STEP IN LAND-DISTURBING ACTIVITIES.

[] [] [X] MS-5 STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES (DAMS, DIKES, AND DIVERSIONS) IMMEDIATELY AFTER INSTALLATION. [] [] [X] MS-6 SEDIMENT TRAPS AND BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA. MINIMUM STORAGE OF 134 CY PER ACRE OF DRAINAGE AREA. TRAPS SHALL CONTROL ONLY DRAINAGE AREAS LESS THAN 3 ACRES. BASINS ARE REQUIRED FOR DRAINAGE AREAS GREATER THAN 3 ACRES. THE OUTFALL SYSTEM SHALL MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING THE 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO BARE EARTH CONDITIONS OR THOSE CONDITIONS EXPECTED TO EXIST DURING BASIN UTILIZATION.

[X] [] [] MS-7 CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER TO MINIMIZE EROSION. EXCESSIVELY ERODING SLOPES, WITHIN ONE YEAR OF PERMANENT STABILIZATION, SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED. SLOPES ARE DESIGNED TO MINIMIZE EROSION. THE NARRATIVE STATES THE MAINTENANCE REQUIREMENTS OF EXCESSIVELY ERODING SLOPES.

[] [] [X] MS-8 CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE. [] [] [X] MS-9 WHEN WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED. WATER SEEPS ARE NOT ANTICIPATED FOR THIS PROJECT.

[X] [] [] MS-10 ALL INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT. PROTECTION TO INLETS ARE ADDRESSED AS PART OF THE PHASED EROSION AND SEDIMENT CONTROL PLAN. MEASURES ARE SHOWN ON THE PLANS, DETAILS ARE PROVIDED FOR THE PROTECTION. THE NARRATIVE ADDRESSES THE INSTALLATION OF THE MEASURE AS SOON AS THE STRUCTURE IS INSTALLED.

[X] [] [] MS-11 ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED (CONVEYANCE CHANNEL AND RECEIVING CHANNEL) PRIOR TO THE NEWLY CONSTRUCTED STORMWATER CONVEYANCE OR PIPES BEING MADE OPERATIONAL. DISCHARGE FROM THE OUTLETS ARE WITHIN ALLOWABLE VELOCITIES AND DO NOT REQUIRE OUTLET PROTECTION.

[] [] [X] MS-12 WORK WITHIN A LIVE WATERCOURSE, PRECAUTIONS TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT, AND STABILIZE WORK AREA. NON-ERODIBLE MATERIAL SHALL BE UTILIZED FOR CAUSEWAY AND COFFERDAMS. EARTHEN FILL SHALL BE ARMORED BY NONERODIBLE COVER MATERIALS.

[] [] [X] MS-13 CROSSING A LIVE WATERCOURSE MORE THAN TWICE IN SIX MONTH PERIOD REQUIRES CONSTRUCTION OF A TEMPORARY STREAM CROSSING, CONSISTING OF NON-ERODIBLE MATERIAL REQUIRED. [] [] [X] MS-14 ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.

[] [] [X] MS-15 THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED. [X] [] [] MS-16 UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA: NO MORE THAN 500 LF OF TRENCH MAY BE OPEN AT ONE TIME; EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES; EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER NOT ADVERSELY AFFECTING FLOWING STREAMS OR OFF-SITE PROPERTY.

DEWATERING THROUGH A FILTER BAG IS DISCUSSED IN THE NARRATIVE. [X] [] [] MS-17 WHEN CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ON TO THE PAVED SURFACE. THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA.

CONSTRUCTION ENTRANCE IS SHOWN OFF OF EXISTING PAVEMENT. THE CONSTRUCTION ENTRANCE IS DISCUSSED IN THE NARRATIVE. [X] [] [] MS-18 WITHIN 30 DAYS AFTER THE FINAL SITE STABILIZATION, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED. TRAPPED SEDIMENT AND DISTURBED SOIL AREAS AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

REMOVAL OF MEASURES ARE DISCUSSED WITHIN THE NARRATIVE. [X] [] [] MS-19 PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SHALL BE ADEQUATELY PROTECTED FROM EROSION AND SEDIMENT DEPOSITION DUE TO INCREASES IN VOLUME, VELOCITY, AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STED FREQUENCY STORM OF 24-HOUR DURATION.

DESIGN MEASURES HAVE ADDRESSED THIS REQUIREMENT.

EROSION & SEDIMENT CONTROL NARRATIVE:

PROJECT DESCRIPTION
THE PURPOSE OF THIS PROJECT IS TO PROVIDE DEMOLITION, GRADING, AND CONSTRUCTION OF A TANK CONTAINMENT EXPANSION AREA. THE DISTURBED AREA IS LOCATED ON THE SOUTHWEST PORTION OF THE SITE AND THE FILTERRA STRUCTURE, LOCATED IN THE SOUTHEAST CORNER, TOTALING 0.82 ACRE (35,800 SF). THE OVERALL SITE IS 3.7568 ACRES AND MOSTLY DEVELOPED WITH BUILDING AND PARKING. THE PROPOSED DEVELOPMENT DRAINS TO AN EXISTING DEPRESSION, WITH THE TANK CONTAINMENT AREA DETAINING THE RUNOFF FROM THAT PORTION UNTIL A GATE VALVE IS OPENED. TO MEET STORMWATER QUALITY REQUIREMENTS, THE FILTERRA STRUCTURE WILL CAPTURE AND TREAT 0.29 ACRES OF EXISTING IMPERVIOUS AREA AND RELEASE THE RUNOFF TO AN EXISTING DITCH ADJACENT TO THE PROPERTY.

EXISTING CONDITIONS
THE PROPOSED SITE SLOPES FROM FRONT OF THE EXISTING BUILDING TOWARD AERIAL WAY DRIVE, S.W. IN A SOUTHWESTERLY DIRECTION AND FROM THE REAR OF THE EXISTING BUILDING TOWARD THE ROANOKE RIVE IN A NORTHERLY DIRECTION. SLOPES RANGE FROM 5% TO 67%.

ADJACENT PROPERTY
THE DEVELOPMENT AREA FRONTS ON AERIAL WAY DRIVE, S.W. TO THE SOUTH: PETERS CREEK ROAD, S.W. TO THE EAST; ROANOKE RIVER TO THE NORTH, AND PROPERTY OWN BY CUSTOM WOOD PRODUCTS, INC. TO THE WEST.

SOILS
AS IDENTIFIED BY THE U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, GENERAL SOIL MAP, THE BASIC SOIL MATERIAL IS WHEELING-URBAN LAND.

CRITICAL EROSION AREAS
THERE ARE NO CRITICAL EROSION AREAS.

EROSION AND SEDIMENT CONTROL MEASURES
UNLESS OTHERWISE STATED ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH MINIMUM STANDARDS AND SPECIFICATIONS OF THE LATEST EDITION OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK".

STRUCTURAL PRACTICES
TEMPORARY CONSTRUCTION ENTRANCE (3.02) - A STONE PAD, LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE, TO REDUCE THE SOIL TRANSPORTED ONTO PUBLIC ROADS AND OTHER PAVED AREAS.

A TEMPORARY CONSTRUCTION ENTRANCE HAS BEEN INCLUDED IN THIS PROJECT AND IS SHOWN ON THE DRAWINGS.

SILT FENCE (3.05) - A TEMPORARY SEDIMENT BARRIER CONSTRUCTED OF POSTS, FILTER FABRIC AND, IN SOME CASES, A WIRE SUPPORT FENCE, PLACED ACROSS OR AT THE TOE OF A SLOPE OR IN A MINOR DRAINAGE WAY TO INTERCEPT AND DETAIN SEDIMENT AND DECREASE FLOW VELOCITIES FROM DRAINAGE AREAS OF LIMITED SIZE; APPLICABLE WHERE SHEET AND RILL EROSION OR SMALL CONCENTRATED FLOWS MAY BE A PROBLEM. MAXIMUM EFFECTIVE LIFE OF 6 MONTHS.

SILT FENCE WILL BE USED ON THIS PROJECT AND IS SHOWN ON THE DRAWINGS.

STORM DRAIN INLET PROTECTION (3.07) - THE INSTALLATION OF VARIOUS KINDS OF SEDIMENT TRAPPING MEASURES AROUND DROP INLETS OR CURB INLET STRUCTURES PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA; LIMITED TO DRAINAGE AREAS NOT EXCEEDING ONE ACRE, AND NOT INTENDED TO CONTROL LARGE, CONCENTRATED STORMWATER FLOWS.

STORM DRAIN INLET PROTECTION WILL BE USED ON THIS PROJECT AND IS SHOWN ON THE DRAWINGS.

TEMPORARY SEEDING (3.31) - ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR PERIODS OF 30 DAYS TO ONE YEAR BY SEEDING WITH APPROPRIATE RAPIDLY-GROWING PLANTS.

TEMPORARY SEEDING WILL BE USED AS NECESSARY.

PERMANENT SEEDING (3.32) - ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER BY PLANTING SEED ON ROUGH-GRADED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE OR WHERE PERMANENT, LONG-LIVED VEGETATIVE COVER IS NEEDED ON FINE-GRADED AREAS.

PERMANENT SEEDING WILL BE USED ON ALL FINISHED AREAS OUTSIDE OF THE GRAVELED AREAS.

MANAGEMENT STRATEGIES

- CONSTRUCTION WILL BE SEQUENCED TO BEGIN AND END GRADING OPERATIONS AS QUICKLY AS POSSIBLE.
- ITEMS SHOWN ON SHEET C02 SHALL BE INSTALLED AS THE FIRST STEP OF THE CONSTRUCTION PROCESS.
- ALL AREAS SHALL BE SEEDED WITH PERMANENT STABILIZATION AS SOON AS THEY REACH FINAL GRADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
- ONCE THE SITE HAS BEEN STABILIZED, THE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES MAY BE REMOVED AND THOSE AREAS BROUGHT TO FINAL GRADE AND STABILIZED.

PERMANENT STABILIZATION

ALL DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION ACCORDANCE WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", STD AND SPEC. 3.32 AS SOON AS THOSE AREAS ARE BROUGHT TO FINAL GRADE. FOR PERMANENT SEEDING MIXTURE SEE THE EROSION AND SEDIMENT CONTROL DETAIL SHEET.

MAINTENANCE

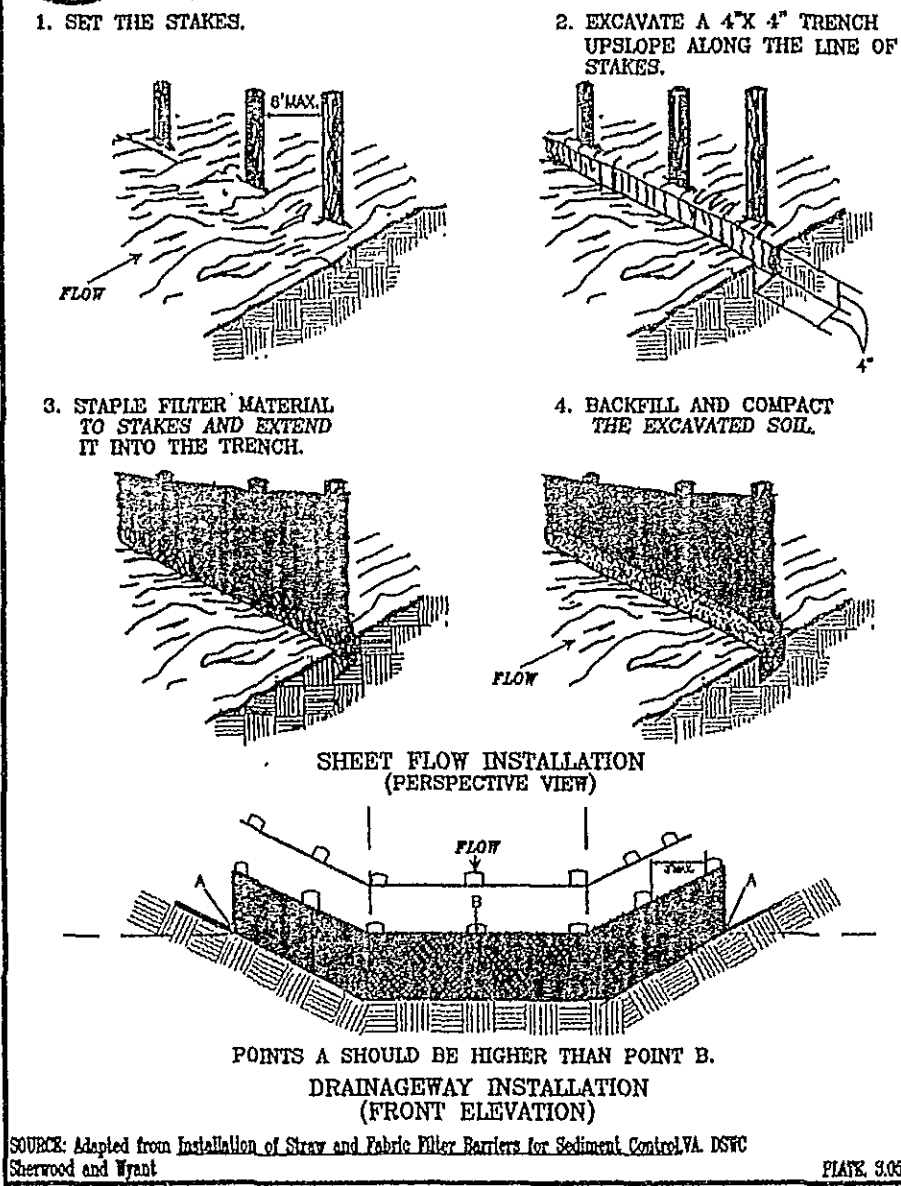
ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CHECKED DAILY AND AFTER ALL SIGNIFICANT RAINFALL. IN PARTICULAR:

- SILT FENCE SHALL BE CHECKED REGULARLY TO ENSURE THAT THE FABRIC HAS NOT BEEN UNDERMINED OR HAS DETERIORATED. SEDIMENT SHALL BE REMOVED WHEN LEVEL OF BUILDUP REACHES HALFWAY UP THE BARRIER.
- AREAS WHICH HAVE RECEIVED SEEDING SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS REQUIRED.

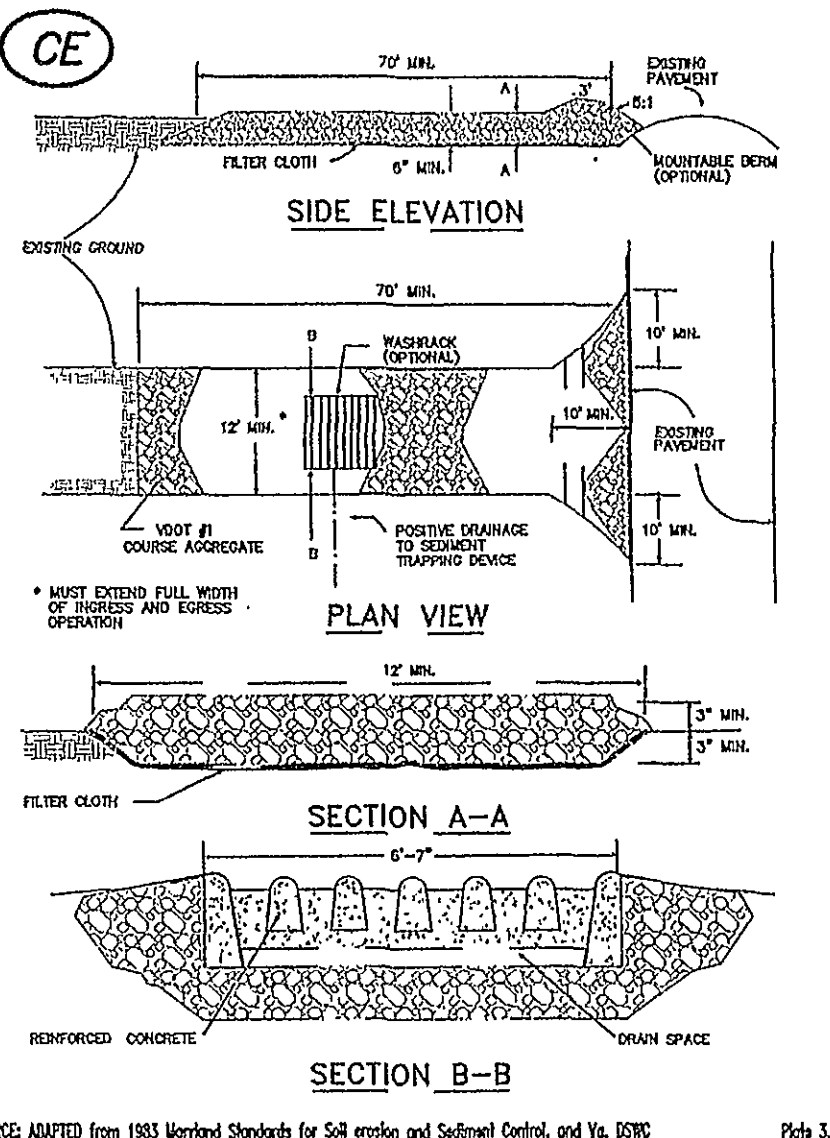
GENERAL EROSION & SEDIMENT CONTROL NOTES:

- ALL SOIL EROSION & SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
- NO WORK SHALL PROCEED ON THE SITE UNTIL THE PROPER AUTHORIZATION OR PERMIT HAS BEEN OBTAINED FROM THE APPROVING AUTHORITY.
- 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.
- 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.
- IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
- 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.
- 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.
- REFERENCE IS DIRECTED TO PLAN SHEETS FOR SITE DEPICTING EROSION AND SEDIMENT CONTROL MEASURES.
- WHILE THE ENGINEER, PARKER DESIGN GROUP, HAS PREPARED THE PLAN IN ACCORDANCE TO THE VA ESCH, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE QUALITY OF THE WORK OR EROSION CONTROL METHODS PERFORMED BY THE CONTRACTOR OR SUBCONTRACTOR.

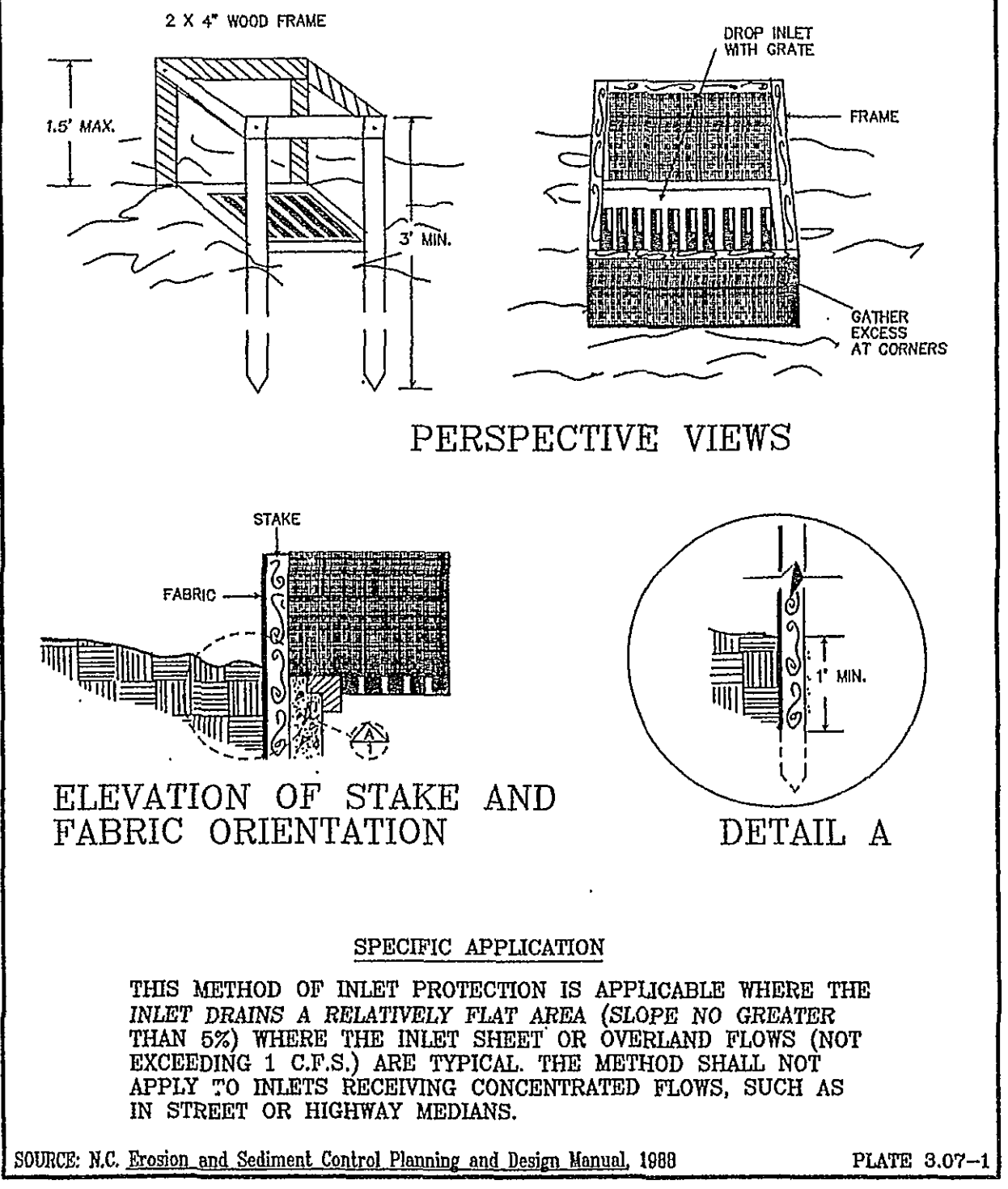
CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



STONE CONSTRUCTION ENTRANCE



SILT FENCE DROP INLET PROTECTION



TYPE A (SLOPES FLATTER THAN 3:1)	TYPE B (SLOPES 3:1 OR STEEPER)
15 OCTOBER TO 1 FEBRUARY K-31 FESCUE @ 5 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 RED TOP @ 1/8 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 RED TOP @ 1/8 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	
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 3.35 OF THE VA ESCH.	
SOIL CONDITIONING: INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS CONTAINED WITHIN THE VA ESCH. 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, FRAGILE SEEDBED. MAX. SEEDING DEPTH SHALL BE 1/4 INCH.	
PS PERMANENT SEEDING MIXTURE VA ESCH STD & SPEC 3.32	

EROSION-SILTATION CONTROL COST ESTIMATE				
ALL COSTS GIVEN ARE COMPLETE IN PLACE				
DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
CONSTRUCTION ENTRANCE	EA	1	\$ 1,500.00	\$ 1,500.00
SILT FENCE	LF	410	\$ 4.00	\$ 1,640.00
INLET PROTECTION	EA	2	\$ 100.00	\$ 200.00
TEMPORARY SEEDING	AC.	0.1	\$ 1,800.00	\$ 180.00
PERMANENT SEEDING	AC.	0.1	\$ 2,400.00	\$ 240.00
SUB-TOTAL				\$ 3,760.00
10% CONTINGENCY				\$ 376.00
TOTAL PROJECT COST				\$ 4,136.00

01 MARCH TO 30 APRIL
WINTER RYE (SECALE CERALE) @ 2 1/2 LB / 1000 SF
OR ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) @ 1 1/2 LF / 1000 SF
OR KOREAN LESPEDEZA (LESPEDEZA STIPULACEA) @ 1 1/2 LF / 1000 SF

01 MAY TO 15 AUGUST
GERMAN MILLET (SETARIA ITALICA) @ 1 LB / 1000 SF
OR WEEPING LOVEGRASS (ERAGROSTIS CLIVULA) @ 5 1/2 OZ / 1000 SF
OR KOREAN LESPEDEZA (LESPEDEZA STIPULACEA) @ 1 1/2 LF / 1000 SF

15 AUGUST TO 01 NOVEMBER
WINTER RYE (SECALE CERALE) @ 1 LB / 1000 SF
AND ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) @ 1 LF / 1000 SF

MULCH: SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3rd ED.

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRAGILE SEEDBED. MAX. SEEDING DEPTH SHALL BE 1/4 INCH.

TS TEMPORARY SEEDING MIXTURE
VA ESCH STD & SPEC 3.31

APPROVED
APR 27 2009

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PAUL J. BROWN
Lic. No. 036148
4-16-2009
PROFESSIONAL ENGINEER

**Comprehensive Site Plan for
Tank Containment Expansion
for PM Properties, Inc.**
3643 Aerial Way Drive, S.W.; Tax # 5220602
City of Roanoke, VA

REVISIONS:

Address City Comments	02-11-2009
Address Comments	03-11-2009
PJB	04-16-2009

DESIGNED BY: PJB
DRAWN BY: MFW
CHECKED BY: PJB
SCALE: As Shown
DATE: December 17, 2008

SHEET TITLE:

ESC Notes
& Details

C06
06 OF 08
PROJECT NUMBER
08-0323-01