

APPENDIX O

DCR Approvals/Conditional Approvals



L. Preston Bryant, Jr.
Secretary of Natural
Resources

Joseph H. Maroon
Director

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

203 Governor Street, Suite 206
Richmond, Virginia 23219
Phone: (804) 786-2064 Fax: (804) 786-1798

June 5, 2008

Mr. Roy T. Mills
State Hydraulics Engineer
Virginia Department of Transportation
1401 East Broad Street
Richmond, Virginia 23219

Subject: 2008 VDOT Annual Standards and Specifications for Erosion and Sediment Control and Stormwater Management

Dear Mr. Mills:

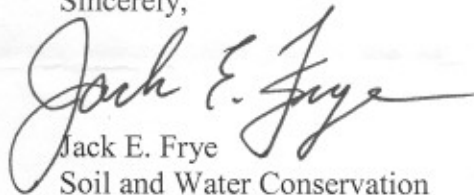
In accordance with §10.1-564 of the Virginia Erosion and Sediment Control Law and §10.1-603.5 of the Virginia Stormwater Management Law, the Department of Conservation and Recreation (DCR) has completed the review of the 2008 VDOT Annual Standards and Specifications for Erosion & Sediment Control and Stormwater Management and they are conditionally approved. The conditional approval is based on DCR staff review and recommendations. The approval contains the following conditions:

1. All VDOT land-disturbing activity requiring a stormwater management plan or General Permit for Discharges of Stormwater from Construction Activities will need to meet the requirements of the Virginia Stormwater Management Program Permit Regulations.
2. All regulated land disturbing activities undertaken on private and publicly owned lands in Virginia must be conducted in accordance with the approved 2008 VDOT Annual Standard and Specifications. Individual project-specific erosion and sediment control and stormwater management plans must be prepared to ensure proper on site implementation of erosion and sediment control and stormwater management measures. However, these plans need not be submitted to DCR for approval as long as they comply with the approved 2008 VDOT Annual Standard and Specifications.

To ensure compliance with approved standards and specifications, the Virginia Erosion and Sediment Control Law, and the Stormwater Management Law, staff in DCR regional and central offices will conduct random site inspections, respond to complaints, and provide on site technical assistance with specific erosion and sediment control and stormwater management measures and plan implementation.

Thank you very much for your submission and continued efforts to conserve and protect Virginia's precious natural resources.

Sincerely,

A handwritten signature in black ink, appearing to read "Jack E. Frye". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Jack E. Frye
Soil and Water Conservation
Division Director

cc: Eric Capps, DCR
Stephen D. Kindy, VDOT

TABLE 1: 2008 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications (Rev. Nov. 2007)

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved 2007 Items	New/Updated 2008 Items	Notes:
Appendix F	ESC & SWM Plan Development/Implementation Process	ESC/SWM/VSMP Requirements Flowchart	Aug. 15, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-11.24 ESC - Revised	Dec. 1, 2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-73.4 Riprap	Dec. 1, 2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-110.18 General Notes	Mar. 27, 2007	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Revised to include safety slab note D-17.
Appendix F	ESC & SWM I&IM	IIM-LD-121.15 Pipe Criteria and Drainage Instructions	Aug. 26, 2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-122.11 Roadside Development	Jan 13, 2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-166.4 Soil Stabilization Mat	Dec. 1, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-195.5 Management of Stormwater	Feb. 12, 2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-228 Sinkholes	Aug 15, 2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM-LD-214.2 Culvert Design	July 27, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	ESC & SWM I&IM	IIM- LD-242 VSMP	Oct. 28, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Hydraulic Design Advisory	HDA 05-03 NOAA Atlas 14	Sept. 25, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Hydraulic Design Advisory	HDA 05-04.1. TR-55 & TR-20	Sept. 14, 2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix F	Hydraulic Design Advisory	HDA 06-03.1 Culvert Outlet Protection	Sept. 1, 2007	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Revised to utilize existing pay items.
Appendix F	Hydraulic Design Advisory	HDA 06-05 ESC Plans	Oct. 10, 2007	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

TABLE 1: 2008 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications (Rev. Nov. 2007)

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved 2007 Items	New/Updated 2008 Items	Notes:
Appendix F	Hydraulic Design Advisory	HDA 06-05 SWM Plans	May 14, 2007	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Appendix G	VDOT Road Design Manual	Appendix A, pages A105-A140	7/06	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-1	2007	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Revised to utilize existing pay items.
Appendix H	Road & Bridge Standards	EC-2	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-3	2007	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Modified for outlet protection installation.
Appendix H	Road & Bridge Standards	EC-4	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-5	2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-6	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-7	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-8	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC-9	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	L-3 Typical for Plant Benching	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	Roadside Development Sheet a4	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	EC Summary a5	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	Temp. Sediment Trap Detail a6	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	Sink Hole Details Isd2944	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	Temp. Diversion Channel & Acceptable Linings	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

TABLE 1: 2008 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications (Rev. Nov. 2007)

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved 2007 Items	New/Updated 2008 Items	Notes:
Appendix H	Road & Bridge Standards	ESC-INS Sheet 1	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	ESC-INS Sheet 2	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	ESC-INS Sheet 3	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	PG-2A – Standard Paved Ditch - Triangular	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	PG-3 - Standard Rip Rap Ditch & Slope Protection	2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	PG-5 – Standard Paved Ditch - Trapezoidal	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-1 (Cast-In-Place)	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-1 (Precast)	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 1	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 2	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 3	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 4	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix H	Road & Bridge Standards	SWM-DR - Sheet 5	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division I	Sec. 101 Definitions	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division I	Sec. 103 Award and Execution	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division I	Sec. 104 Scope of Work	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division I	Sec. 105 Control of Work	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

TABLE 1: 2008 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications (Rev. Nov. 2007)

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved 2007 Items	New/Updated 2008 Items	Notes:
Appendix I	Road & Bridge Specifications - Division I	Sec. 106 Control of Material	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division I	Sec. 107 Legal Relations & Public Responsibility	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division I	Sec. 108 Prosecution & Progress of Work	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division II	Sec. 203 Coarse Aggregate	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division II	Sec. 204 Stone for Masonry, Riprap, Porous Backfill, and Gabions	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division II	Sec. 239 Sodium Chloride – Calcium Chloride	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division II	Sec. 240 Lime	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division II	Sec. 242 Fences	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division II	Sec. 244 Roadside Development Materials	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division II	Sec. 245 Geosynthetics	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division III	Sec. 301 Clearing & Grubbing	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division III	Sec. 302 Drainage Structures	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division III	Sec. 303 Earthwork	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

TABLE 1: 2008 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications (Rev. Nov. 2007)

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved 2007 Items	New/Updated 2008 Items	Notes:
Appendix I	Road & Bridge Specifications - Division IV	Sec. 401 Structure Excavation	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division IV	Sec. 402 Sheet Piles	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division IV	Sec. 413 Dismantling & Removing Structures	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division IV	Sec. 411 Protective Coatings of Metal in Structures	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division IV	Sec. 414 RipRap	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division IV	Sec. 415 Concrete Slope Protection	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division IV	Sec. 418 Timber Structure	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division V	Sec. 501 Underdrains	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division V	Sec. 506 - Retaining Walls	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division V	Sec. 511 Allaying Dust	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division V	Sec. 512	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division V	Sec. 520 Water & Sanitary Sewer Facilities	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 602 Topsoil	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 603 Seeding	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

TABLE 1: 2008 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications (Rev. Nov. 2007)

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved 2007 Items	New/Updated 2008 Items	Notes:
Appendix I	Road & Bridge Specifications - Division VI	Sec. 604 Sodding	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 605 Planting	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 606 Soil Retention Coverings	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 607 Herbicide Spraying	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 608 Mowing	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 609 Tree Wells & Tree Walls	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix I	Road & Bridge Specifications - Division VI	Sec. 610 Gabions	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix J	Erosion and Sediment Control Inspection Forms, Related Construction Forms & Memoranda	C-107a&b, C-10, C-12, C-18a, C-26, C-36i, C36, C-45, C-5, C-54, C-83, C-84, CD-2002-9, LD-445, LD-445A, LD-445B, LD-445C, LD-445D	Varies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C-10 form revised to reflect responsible charge engineer position. C-12 form reissued. C-36 form to replace Residency w/ Construction Area. LD-445(A-D) forms reissued.
Appendix K	VDOT Stormwater Management Maintenance Program	Environmental Policy for Maintenance of Ditches and Shoulders, Property Owner Agreement – Disposal Site, Disposal Areas – DEQ MOA	2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Appendix K	VDOT Stormwater Management Maintenance Program	Hampton Roads District SWM Basins Inventory and Inspection Manual	2005	<input type="checkbox"/>	<input checked="" type="checkbox"/>	This document is being used as a prototype to develop a new statewide VDOT SWM Maintenance Program Manual. It is currently used in all 9 VDOT construction districts.

TABLE 1: 2008 VDOT Annual Erosion and Sediment Control and Stormwater Management Standards and Specifications (Rev. Nov. 2007)

VDOT Annual Submittal Appendix	VDOT Document	VDOT Document Sections	Current Date	Approved 2007 Items	New/Updated 2008 Items	Notes:
Appendix M	Modifications to Specifications	c100b0b, s106A2B, s107A0B, s107F1B, s107G0B, s107D1B, s242A0B, s244A0B, s245A1B, c302a0b, c302b1b, c302b2b, s303A0B, s303c1B, s303D0B, s303E2B, s303E3B, c603a0b, s414A0B	2007	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Section 107-Legal Relations & Responsibility to the Public Section 414-Riprap
Appendix Q	Pending Revisions	Nutrient Management Plan, S107F1C-0108, S107G0B1-0108	2007	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Draft documents to be completed in the 2008 Calendar year
See Web Site	VDOT Drainage Manual	Chapter 6	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
See Web Site	VDOT Drainage Manual	Chapter 7	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
See Web Site	VDOT Drainage Manual	Chapter 8	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
See Web Site	VDOT Drainage Manual	Chapter 10	2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
See Web Site	VDOT Drainage Manual	Chapter 11	2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	