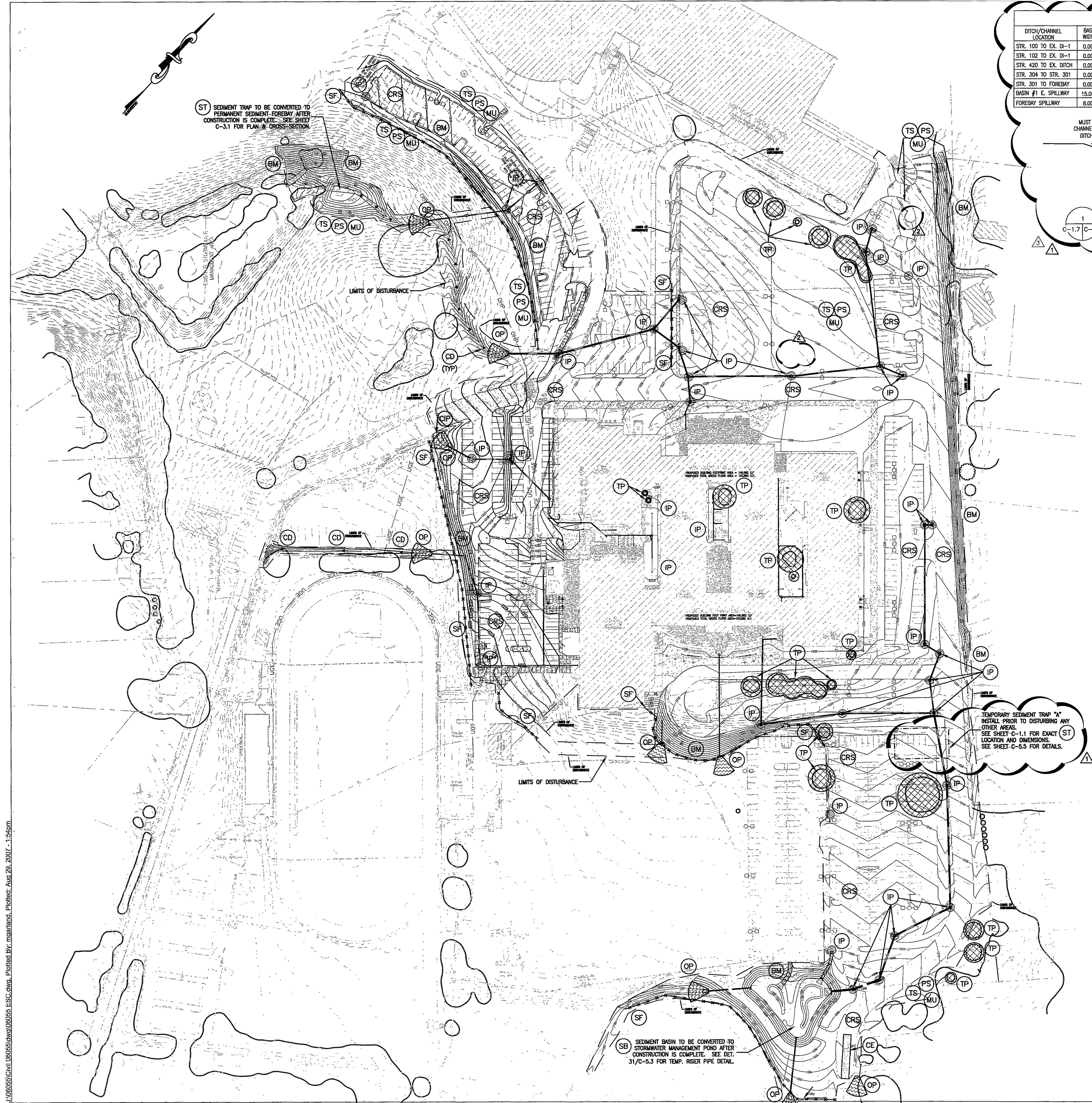
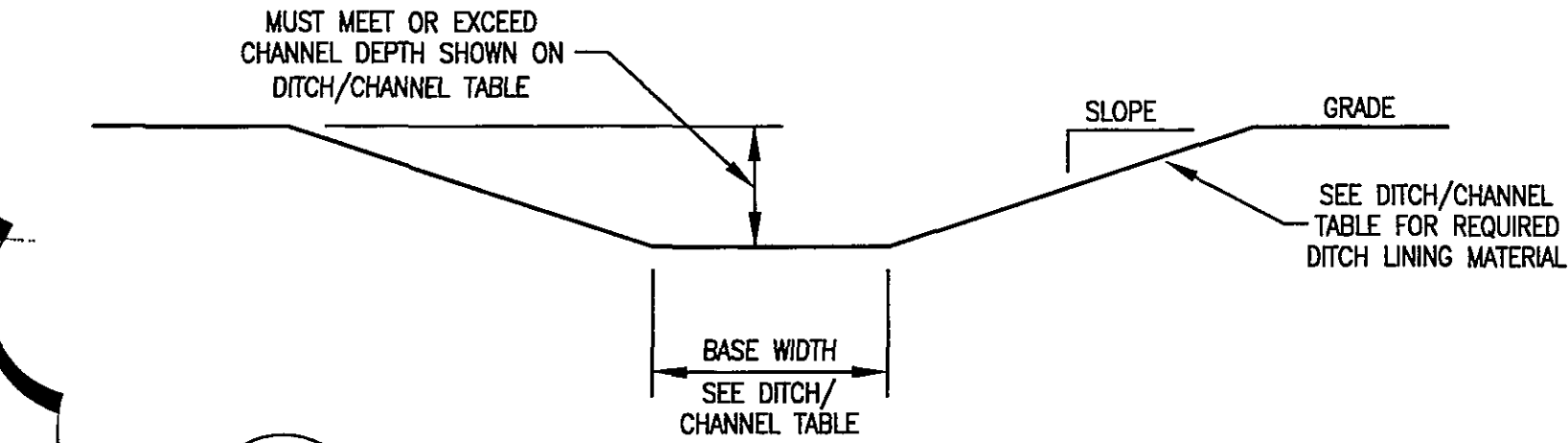


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DITCH/CHANNEL TABLE										
DITCH/CHANNEL LOCATION	BASE WIDTH	LEFT SIDE SLOPE	RIGHT SIDE SLOPE	Q2 CFS	Q2 FT/S	Q10 CFS	Q10 FT/S	D 10 FT	CHANNEL DEPTH	FLOW REGIME
STR. 100 TO EX. DI-1	0.00'	3:1 (max)	3:1 (max)	3.88	3.01	5.47	3.28	0.75	1.00'	SUB-CRIT EC-2
STR. 102 TO EX. DI-1	0.00'	3:1 (max)	3:1 (max)	3.34	2.58	4.33	2.76	0.72	1.00'	SUB-CRIT EC-2
STR. 420 TO EX. DITCH	0.00'	3:1 (max)	3:1 (max)	4.13	2.48	5.87	2.69	0.84	1.35'	SUB-CRIT EC-2
STR. 304 TO STR. 301	0.00'	3:1 (max)	3:1 (max)	16.48	5.65	22.33	6.10	1.11	2.15'	SUPER-CRIT EC-3/A
STR. 301 TO FOREBAY	0.00'	3:1 (max)	3:1 (max)	24.97	6.81	33.86	7.35	1.24	2.25'	SUPER-CRIT EC-3/A
BASIN #1 E. SPILLWAY	15.00'	3:1 (max)	3:1 (max)	N/A	N/A	N/A	N/A	N/A	1.80'	SUB-CRIT EC-2
FOREBAY SPILLWAY	8.00'	3:1 (max)	3:1 (max)	21.27	5.39	29.97	6.05	0.52	1.60'	SUPER-CRIT EC-3/A



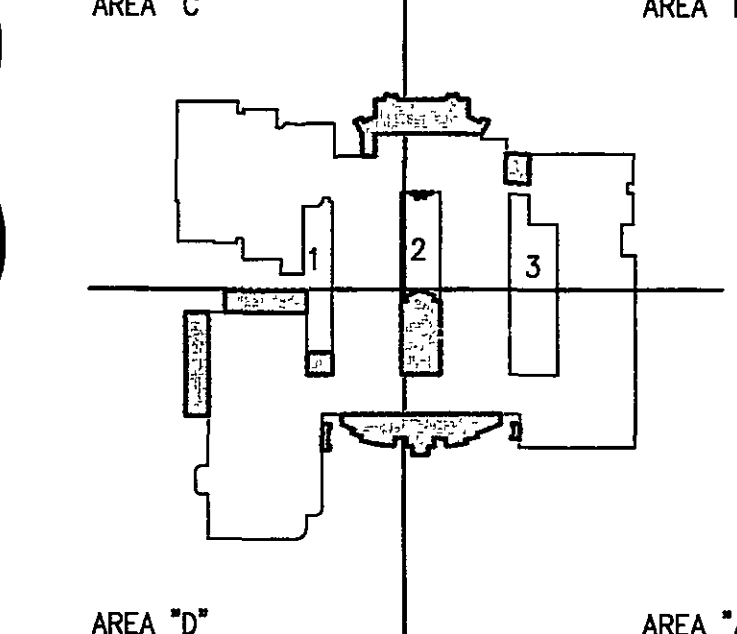
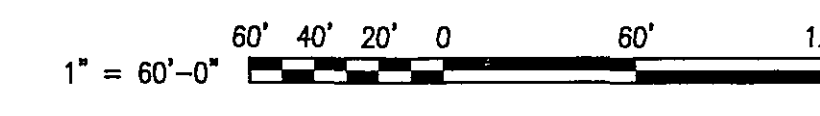
DITCH/CHANNEL TYPICAL SECTION
NO SCALE
C-1.7 C-1.9

ESC LEGEND	
PROPOSED	DESCRIPTION
SF	SILT FENCE VA ESC HANDBOOK No. 3.05
CIP	CULVERT INLET PROTECTION VA ESC HANDBOOK No. 3.08
OP	OUTLET PROTECTION VA ESC HANDBOOK No. 3.18
IP	INLET PROTECTION VA ESC HANDBOOK No. 3.07
TS	TEMPORARY SEEDING VA ESC HANDBOOK No. 3.31
PS	PERMANENT SEEDING VA ESC HANDBOOK No. 3.32
CE	CONSTRUCTION ENTRANCE VA ESC HANDBOOK No. 3.02
CRS	CONSTRUCTION ROAD STABILIZATION VA ESC HANDBOOK No. 3.03
MU	MULCHING (OVER PERMANENT SEEDING) VA ESC HANDBOOK No. 3.35
TP	TREE PRESERVATION & PROTECTION VA ESC HANDBOOK No. 3.38
BM	SOIL STABILIZATION BLANKETS & MATTING VA ESC HANDBOOK No. 3.36
CD	CHECK DAM VA ESC HANDBOOK No. 3.20
ST	TEMPORARY SEDIMENT TRAP VA ESC HANDBOOK No. 3.13
SB	TEMPORARY SEDIMENT BASIN VA ESC HANDBOOK No. 3.14

GENERAL EROSION AND SEDIMENT CONTROL NOTES

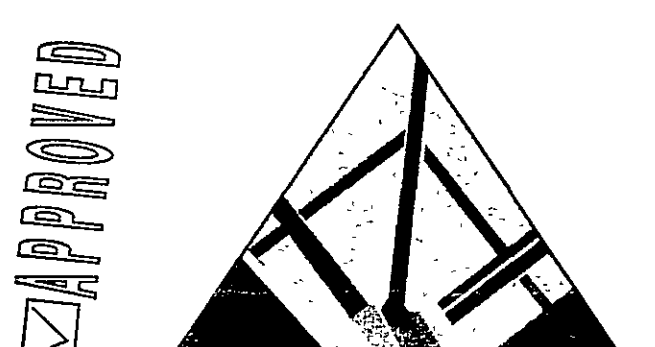
- ES-1: Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook and Virginia Regulations A VAC50-30 Erosion and Sediment Control Regulations.
- ES-2: The plan approving authority must be notified one week prior to the 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 shall be maintained on the site at all times.
- 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 land disturbing activities and during site development until final stabilization is achieved.
- ES-8: During dewatering operations, 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. Virginia Erosion and Sediment Control Regulations are found in section "4VAC50-30" of the Code of Virginia.

LEGEND	
	INLET PROTECTION
	OUTLET PROTECTION
	TREE PRESERVATION & PROTECTION
	BLANKETS AND MATTING



GENERAL NOTES

1. THIS EROSION AND SEDIMENT CONTROL (ESC) SHEET SHOWS ESC MEASURES WHICH ARE TO BE CONSTRUCTED THE SITE GRADING AND CONSTRUCTION.
2. REFER TO SHEET C-5.3 FOR EROSION AND SEDIMENT CONTROL DETAILS AND DESIGN DATA.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN THIRTY (30) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
4. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN HEREON AND SHALL COMPLY WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION.
5. PERMANENT SEEDING APPLIED TO ALL MECHANICALLY STABILIZED SLOPES AND SLOPES STEEPER THAN 3:1 SHALL MEET THE FOLLOWING MIXTURE:
- | POUNDS PER ACRE | SEED TYPE |
|-----------------|--|
| 108 | KENTUCKY 31 |
| 2 | RED TOP |
| 20 | SEASONAL NURSE CROP |
| | ANNUAL RYE, FOXTAIL MILLET, & WINTER RYE MIX |
| 20 | CROWN VETCH |
6. SEDIMENT TRAPS AND/OR BASINS SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
7. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
8. PERMANENT SEEDING (3.32) AND MULCHING (3.35) SHALL BE APPLIED ON ALL DISTURBED SURFACES NOT INDICATED TO BE HARDCAPPED, SODDED, OR LANDSCAPED. SEE L-1.1 & L-1.2 FOR SOD AND MULCH BED LOCATIONS.
9. THE LOCATION OF ALL OFF-SITE FILL OR BORROW AREAS ASSOCIATED WITH THE CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT. AN EROSION AND SEDIMENT CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THIS AREA.



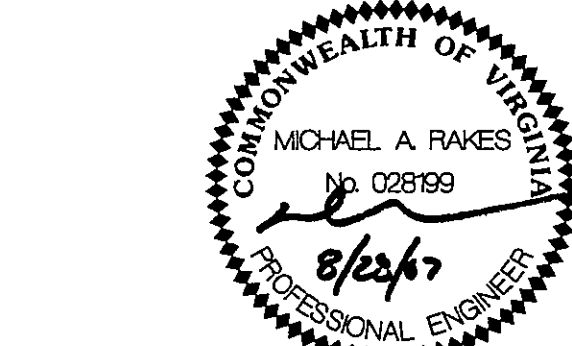
SPECTRUM DESIGN

10 CHURCH AVE SE, PLAZA SUITE 1 ROANOKE, VIRGINIA 24011 540.342.6011
ROANOKE • MARIION

ADDITIONS AND RENOVATIONS TO

NORTHSIDE HIGH SCHOOL
ROANOKE COUNTY PUBLIC SCHOOLS
VA DOE #80-52G

SPECTRUM DESIGN PROJECT NO. 06055



DATE DESIGN ARCHITECT PROJECT ARCHITECT PROJECT ENGINEER CHECKED BY DRAWN BY	15 APRIL, 2007 MAR CZV
REVISIONS COUNT REVIEW COUNT REVIEW	NUMBER 3 DATE 5/25/07 8/28/07

SHEET TITLE

EROSION AND SEDIMENT CONTROL PLAN

C-1.9