

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF THE DEVELOPMENT OF 6 SINGLE FAMILY DETACHED DWELLINGS WITH ASSOCIATED PUBLIC ROADS, PUBLIC UTILITIES, ETC.

EXISTING SITE CONDITIONS
THIS SITE IS A RELATIVELY FLAT TO MODERATELY SLOPING OPEN PROPERTY THAT DRAINS TO AN EXISTING NATURAL WATERCOURSE AND EXISTING 48" STORM DRAIN THAT RUNS FROM SOUTH TO NORTH ACROSS THE MIDDLE OF THE PROPERTY.

ADJACENT AREAS
THE SITE IS BORDERED TO THE WEST BY THE PROPOSED HIDDEN VALLEY HIGH SCHOOL PROPERTY, TO THE NORTH BY THE KINGSTON COURT SUBDIVISION, TO THE EAST BY RESIDENTIAL PROPERTY, AND TO THE SOUTH BY AN UNDEVELOPED FIELD.

CRITICAL AREAS
THE EXISTING 48" STORM DRAIN AND ADJACENT WATERCOURSE SHOULD BE MONITORED TO INSURE THAT ANY SILTATION THAT OCCURS WITHIN THESE AREAS IS REMOVED. THE AREAS ADJACENT TO THE HEADWALLS OF THE EXISTING 48" STORM DRAIN CULVERT SHALL BE GRADED SMOOTH AND STABILIZED AS NECESSARY.

OFFSITE AREAS
NO OFFSITE FILL OR BORROW SITES ARE COVERED BY THIS EROSION AND SEDIMENT CONTROL PLAN.

EROSION AND SEDIMENT CONTROL MEASURES
CONSTRUCTION ENTRANCE (3.02) - A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED INTO EXISTING ROADS.

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.

INLET PROTECTION (3.07) - INLET PROTECTION WILL BE INSTALLED AT EACH INLET TO MINIMIZE THE AMOUNT OF SEDIMENT LADEN RUNOFF FROM ENTERING THE STORM DRAIN SYSTEM.

OUTLET PROTECTION (3.18) - OUTLET PROTECTION WILL BE INSTALLED AT THE OUTLET ENDS OF THE STORM DRAIN SYSTEM TO MINIMIZE SCOUR AND DOWNSTREAM EROSION.

PERMANENT STABILIZATION
ALL AREAS ON SITE WHICH WILL NOT RECEIVE BUILDINGS OR PAVEMENT MUST RECEIVE PERMANENT SEEDING AS SOON AS THOSE AREAS REACH FINAL GRADE. FOR PERMANENT SEEDING SPECIFICATIONS PLEASE SEE SHEET 9.

STORMWATER MANAGEMENT
STORMWATER MANAGEMENT COMPLIANCE FOR THIS PROJECT WILL BE ACHIEVED THROUGH THE DESIGN AND CONSTRUCTION OF AN ONSITE STORMWATER MANAGEMENT FACILITY. PLEASE SEE THE STORMWATER MANAGEMENT CALCULATIONS.

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

1. OUTLET 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.
2. 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.
3. 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.

CONSTRUCTION SEQUENCE

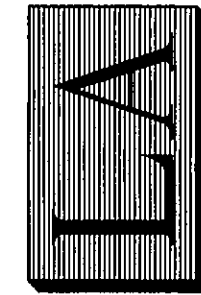
1. THE CONSTRUCTION ENTRANCE AND THE SILT FENCE SHALL BE INSTALLED AS THE FIRST STEP IN THE CONSTRUCTION PROCESS.
2. INSTALL INLET AND OUTLET PROTECTION IN CONJUNCTION WITH STORM DRAIN CONSTRUCTION.
3. ONCE SITE HAS BEEN BROUGHT TO GRADE, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES, AND PROVIDE PERMANENT SEEDING TO ALL DISTURBED AREAS.
4. ROANOKE COUNTY RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO MODIFY THIS EROSION AND SEDIMENT CONTROL PLAN AND INSTALL ADDITIONAL EROSION CONTROL DEVICES AS NEEDED.

NOTE:

1. FOR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES FOR THIS SITE, SEE PLAN ENTITLED "EROSION AND SEDIMENT CONTROL PLAN FOR TRACT 'A' - BOWMAN SUBDIVISION (P.B. 25, PG. 50)", PREPARED BY LUMSDEN ASSOCIATES, P.C.

THIS PLAN IS FOR EROSION AND SEDIMENT
CONTROL ONLY

LUMSDEN ASSOCIATES, P.C.
ENGINEERS-SURVEYORS-PLANNERS
ROANOKE, VIRGINIA



COMMONWEALTH OF VIRGINIA
THOMAS C. DALE
No. 033002
12/18/02
PROFESSIONAL ENGINEER

EROSION AND
SEDIMENT CONTROL
PLAN

"THE MANOR AT
KINGSTON COURT"
PREPARED FOR
STEPHEN A. STILWELL AND
JEFFREY S. TODD
CAVE SPRING MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

REVISIONS		DESCRIPTION
NO.	DATE	REASON
1	12/18/02	REASON
2		
3		
4		
5		

DATE:
NOVEMBER 14, 2002

SCALE:
1" = 30'

COMMISSION NO.
2002-015

CARD FILE
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SHEET 8 OF 9