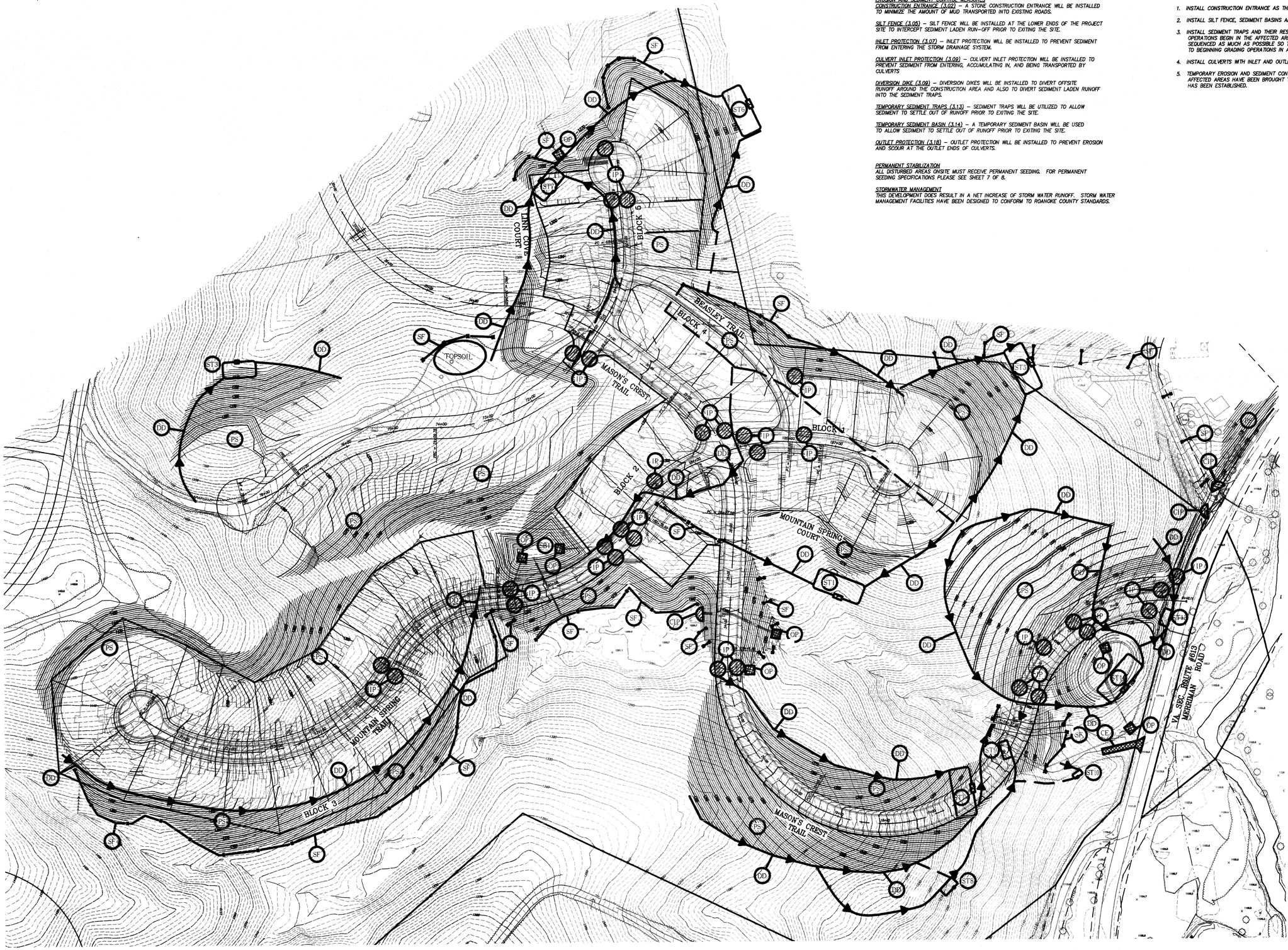
# THIS PLAN IS FOR EROSION & SEDIMENT CONTROL PURPOSES ONLY

NOTES:
1. SEE PREVIOUSLY APPROVED EROSION & SEDIMENT CONTROL PLAN FOR SECTION 1, MASON'S CREST FOR DETAILS OF SEDIMENT BASINS AND SEDIMENT TRAPS.




## EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF DEVELOPMENT OF 55 LOTS FOR A RESIDENTIAL SUBDIVISION INCLUDING ROADS, STORM DRAIN, WATER AND SANITARY SEWER.

EXISTING SITE CONDITIONS
THIS SITE PREDOMINATELY HAS STEEP WOODED SLOPES WITH SOME ROLLING OPEN FIELDS. A NUMBER OF NATURAL WATERCOURSES RUN THROUGHOUT THE SITE DISCHARGING TO THE NORTH AND EAST.

ADJACENT AREAS
THIS DEVELOPMENT IS BORDERED ON THE EAST BY MERRIMAN ROAD AND BY THE BLUE RIDGE PARKWAY TO THE NORTH AND EAST. SOME RESIDENTIAL PROPERTY ADJOINS TO THE NORTHEAST, SOUTH, AND WEST.

OFFSITE AREAS
NO OFFSITE FILL OR BORROW AREAS ARE PROPOSED. IF ANY OFFSITE FILL OR BORROW AREAS SHOULD BECOME NECESSARY, A SEPARATE EROSION AND SEDIMENT CONTROL PLAN SHALL BE PROVIDED FOR THESE AREAS.

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 TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAINAGE SYSTEM.

CULVERT INLET PROTECTION (3.09) – CULVERT INLET PROTECTION WILL BE INSTALLED TO PREVENT SEDIMENT FROM ENTERING, ACCUMULATING IN, AND BEING TRANSPORTED BY CULVERTS

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 THE SEDIMENT TRAPS.

TEMPORARY SEDIMENT TRAPS (3.13) – SEDIMENT TRAPS WILL BE UTILIZED TO ALLOW SEDIMENT TO SETTLE OUT OF RUNOFF PRIOR TO EXITING THE SITE.

TEMPORARY SEDIMENT BASIN (3.14) – A TEMPORARY SEDIMENT BASIN WILL BE USED TO ALLOW SEDIMENT TO SETTLE OUT OF RUNOFF PRIOR TO EXITING THE SITE.

OUTLET PROTECTION (3.18) – OUTLET PROTECTION WILL BE INSTALLED TO PREVENT EROSION AND SCOUR AT THE OUTLET ENDS OF CULVERTS.

PERMANENT STABILIZATION
ALL DISTURBED AREAS ONSITE MUST RECEIVE PERMANENT SEEDING. FOR PERMANENT SEEDING SPECIFICATIONS PLEASE SEE SHEET 7 OF 8.

STORMWATER MANAGEMENT
THIS DEVELOPMENT DOES RESULT IN A NET INCREASE OF STORM WATER RUNOFF. STORM WATER MANAGEMENT FACILITIES HAVE BEEN DESIGNED TO CONFORM TO ROANOKE COUNTY STANDARDS.

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

1. SEDIMENT TRAPS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. CLEAN OUT AS NECESSARY TO MAINTAIN DESIGN VOLUMES.
2. 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.
3. 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.
4. 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. INSTALL CONSTRUCTION ENTRANCE AS THE FIRST STEP IN THE CONSTRUCTION PROCESS.
2. INSTALL SILT FENCE, SEDIMENT BASINS AND OUTLETS, AND PERIMETER DIVERSION DIKES.
3. INSTALL SEDIMENT TRAPS AND THEIR RESPECTIVE DIVERSION DIKES AS SOON AS GRADING OPERATIONS BEGIN IN THE AFFECTED AREAS. THE CONSTRUCTION PROCESS SHOULD BE SEQUENCED AS MUCH AS POSSIBLE SO THAT EACH AREA IS SEEDED AND STABILIZED PRIOR TO BEGINNING GRADING OPERATIONS IN ANOTHER AREA.
4. INSTALL CULVERTS WITH INLET AND OUTLET PROTECTION AS GRADING PERMITS.
5. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES TO BE REMOVED AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO FINAL GRADE AND AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED.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COMMONWEALTH OF VIRGINIA
12-19-05
B. LEE HENDERSON, JR.
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EROSION & SEDIMENT CONTROL PLAN

Mason's Crest

SECTION No. 1
MASON'S CREST
PREPARED FOR
RADFORD & COMPANY
CAVE SPRING MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | DESCRIPTION | |
| 1 | 12/19/05 | REVISED GRADING FOR BLOCKS 3, 4, & 5 | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

DATE: MAY 27, 2005
SCALE: 1" = 80'
COMMISSION NO: 04-136
CADD FILE: F:\2004\04136\DWG\05COMP01B.DWG

WWW ID# 8KVKBC

SHEET 17 OF 18