



### EROSION AND SEDIMENT CONTROL NARRATIVE

**PROJECT DESCRIPTION**  
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 16 SINGLE-FAMILY DETACHED DWELLINGS, AND ONE ROADWAY WITH ASSOCIATED WATER, SANITARY SEWER, AND STORM DRAIN SYSTEMS.

**EXISTING SITE CONDITIONS**  
THIS SITE IS MODERATELY SLOPING. THIS SITE DRAINS WEST TO AN EXISTING STORMWATER MANAGEMENT POND.

**ADJACENT AREAS**  
THIS DEVELOPMENT IS BORDERED ON THE NORTH AND EAST RESIDENTIAL PROPERTY, TO THE WEST BY AN EXISTING STORMWATER MANAGEMENT POND, AND TO THE SOUTH BY MONET DRIVE.

**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.

**CONSTRUCTION ROAD STABILIZATION (3.03)** - TEMPORARY STONE STABILIZATION OF ACCESS ROADS, SUBDIVISION ROADS, PARKING AREAS, AND OTHER ON-SITE VEHICLE TRANSPORTATION ROUTES SHALL BE INSTALLED IMMEDIATELY AFTER GRADING.

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

**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.

**OUTLET PROTECTION (3.18)** - OUTLET PROTECTION WILL BE INSTALLED AT THE OUTLET ENDS OF ALL CULVERT SYSTEMS TO PREVENT SCOUR AND DOWNSTREAM EROSION.

**ROCK CHECK DAMS (3.20)** - TEMPORARY ROCK CHECK DAMS SHALL BE INSTALLED IN SWALES AND DITCHES TO PREVENT EROSION UNTIL A PERMANENT, NON-ERODABLE, OR VEGETATIVE LINING IS ESTABLISHED AS INDICATED ON PLANS.

**TEMPORARY SEEDING (3.31)** - WILL BE USED TO ESTABLISH A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS.

**PERMANENT STABILIZATION**  
ALL AREAS ONSITE 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 OF 9.

### STORMWATER MANAGEMENT

THE DEVELOPMENT OF THIS PROPERTY WILL RESULT IN A NET INCREASE IN RUNOFF. A PRIVATE STORMWATER MANAGEMENT FACILITY EXISTS WITH RELEASE RATES IN ACCORDANCE WITH ROANOKE COUNTY STORMWATER MANAGEMENT STANDARDS. PLEASE SEE OVERALL STORMWATER MANAGEMENT CALCULATIONS FOR "THE GROVES", SEC. 1.

### MAINTENANCE

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

1. THE SEDIMENT TRAP 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. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEED AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS.

### CONSTRUCTION SEQUENCE

1. THE CONSTRUCTION ENTRANCE, CONSTRUCTION ROAD STABILIZATION, DIVERSION DIKES, AND SEDIMENT TRAPS SHALL BE INSTALLED AS THE FIRST STEP IN THE CONSTRUCTION PROCESS.
2. THE STORM DRAIN SYSTEM SHALL BE INSTALLED AS SOON AS GRADING PERMITS TO CONVEY RUNOFF THROUGH THE CONSTRUCTION SITE TO PREVENT EROSION AND SEDIMENT CONTROL PROBLEMS.
3. INLET PROTECTION AND OUTLET PROTECTION SHALL BE INSTALLED ALONG WITH THE STORM DRAIN AND CULVERT INSTALLATION.
4. ONCE SITE HAS BEEN BROUGHT TO FINAL GRADE, THOSE AREAS THAT ARE NOT TO RECEIVE BUILDINGS OR PAVEMENT SHALL BE SEEDING IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATIONS.

NOTE: THE LOCATION OF OFF-SITE FILL AREAS OR BORROW AREAS ASSOCIATED WITH THIS CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY COMMUNITY DEVELOPMENT. AN EROSION AND SEDIMENT CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THESE AREAS.

LEGEND	
ITEM	EXISTING PROPOSED
Pavement	---
Curb & Gutter	---
Sanitary Sewer Manhole	⊙
Sanitary Sewer Line	---
Sanitary Sewer Cleanout	⊙
Waterline	---
Blow-Off	---
Air Release Valve	⊙
Fire Hydrant	⊙
Double Water Service Meter	⊙
Single Water Service Meter	⊙
Storm Drain Line	---
Storm Drain Drop Inlet	⊙
Contours	---