PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A 13 LOT SUBDIVISION (PHASE III) WITH ASSOCIATED STREETS AND UTILITIES. THERE WILL BE APPROXIMATELY 1.0 ACRES OF GRADING.

EXISTING SITE CONDITIONS

THE SITE CONSISTS OF ROLLING CLEARED FIELDS WHICH COVER APPROXIMATELY 50% OF THE SITE. THE REMAINING PORTION OF THE SITE IS COVERED IN HEAVY WOODS AND UNDERBRUSH. THE NATURAL TERRAIN SLOPES IN THE 2% – 25% RANGE.

ADJACENT AREAS

THE SITE IS BORDERED BY OLD HOLLINS ROAD ON THE EAST SIDE, AND IS LOCATED APPROXIMATELY 450 FEET SOUTH OF THE OLD HOLLINS ROAD AND SHADWELL DRIVE INTERSECTION IN THE HOLLINS MAGISTERIAL DISTRICT.

SOILS

THE SOILS ARE TYPES NORMALLY FOUND IN THE AREA WITH NONE HAVING UNUSUALLY HIGH EROSION TENDENCIES. THE AREA PRIOR TO DEVELOPMENT IS STABLE WITH VEGETATIVE GROUND COVER. PERMANENT POST DEVELOPMENT EROSION AND SEDIMENT CONTROL WILL BE ACCOMPLISHED WITH PERMANENT SEEDING.

CRITICAL EROSION AREAS

THE POTENTIALLY CRITICAL EROSION AREAS ARE:

1. THE OUTLET OF THE STORMWATER MANAGEMENT DETENTION POND.

STRUCTURAL PRACTICES

a. TEMPORARY CONSTRUCTION ENTRANCE (SECTION 1.01)
ONE TEMPORARY CONSTRUCTION ENTRANCE WILL BE INSTALLED. VEHICLES WILL BE WASHED TO LIMIT TRACKING ONTO PUBLIC ROADS. SHOULD TRACKING OCCUR THE ROAD WILL BE IMMEDIATELY CLEANED.

b. STRAW BALE BARRIER (SECTION 1.05)
TEMPORARY STRAW BALE BARRIERS WILL BE PLACED AND ENTRENCHED AND ANCHORED AS INDICATED ON THE SITE PLAN.

C. SILT FENCE (SECTION 1.06)
TEMPORARY SILT FENCES WILL BE INSTALLED AS INDICATED ON THE SITE PLAN.

d. SURFACE ROUGHENING (SECTION 1.60)
SURFACE ROUGHENING WILL BE EMPLOYED ON ALL SLOPED EXCEEDING 2:1.

e. TOPSOILING (SECTION 1.61)
TOPSOIL WILL BE STRIPPED FORM THE SITE AND STOCKPILED FOR LATER USE. THE STOCKPILE WILL HAVE ALL NECESSARY EROSION AND SEDIMENT CONTROL MEASURES PLACED. TOPSOIL WILL BE PLACED ON ALL AREAS THAT WILL REQUIRE PERMANENT SEEDING.

f. TEMPORARY SEEDING (SECTION 1.65)
TEMPORARY SEEDING WILL BE PLACED ON ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN ONE YEAR OR LESS. TEMPORARY SEEDING WILL AID IN THE REDUCTION OF DUST AND SEDIMENT.

TEMPORARY SEEDING WILL BE RYE (60 #/AC.) OR GERMAN MILLET (60 #/AC.) DEPENDING ON THE SEASON.

g. PERMANENT SEEDING (SECTION 1.66)
AFTER FINAL GRADING PERMANENT SEEDING WILL BE EMPLOYED TO REDUCE EROSION AND SEDIMENT YIELD.

SEEDING SPECIFICATIONS:

PERMANENT SEEDING WILL BE

a.	TALL FESCUE	50%
b.	SERICEA LESPEDEZA	30%
c.	ANNUAL RYEGRASS	15%
d.	REDTOP	5%

THE SEEDING WILL BE APPLIED AT 70 LB. PER ACRE. ON SLOPED 2:1 OR GREATER A MIXTURE OF CROWN VETCH (50%). PERENNIAL RYEGRASS (40%), AND REDTOP (10%) WILL BE USED.

MULCHING WILL BE EMPLOYED ON ALL AREAS BEING SEEDED AND WILL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK".

ALL SEEDING, WITH REQUIRED ASSOCIATED PRACTICES, WILL BE IN ACCORDANCE WITH ALL APPLICABLE SECTIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.

h. DUST CONTROL (SECTION 1.86)
IF ARID CONDITIONS PREVAIL DUST CONTROL PRACTICES WILL BE EMPLOYED AS REQUIRED.

i. CONSTRUCTION ROAD STABILIZATION (SECTION 1.02)
ALL ROADS AND PARKING AREAS ON THE SITE SHALL BE STABILIZED WITH GRAVEL IMMEDIATELY AFTER GRADING.

TRAFFIC IS PROHIBITED FROM ENTERING DRAINAGE SWALES OR STREAMS UNLESS ABSOLUTELY NECESSARY.

MANAGEMENT

1. CONSTRUCTION SHOULD BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.

2. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AS THE FIRST STEP OF CONSTRUCTION.

3. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES. INSPECTIONS ARE TO BE MADE PERIODICALLY AND AFTER EVERY SIGNIFICANT RAINFALL.

PERMANENT STABILIZATION

ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH TEMPORARY SEEDING WITHIN 7 DAYS AFTER FINISH GRADING. PERMANENT SEEDING WILL BE ACCOMPLISHED THE FOLLOWING SEEDING SEASON. PERMANENTLY SEEDED AREAS SHALL BE PROTECTED DURING ESTABLISHMENT WITH STRAW MULCH. REFERENCE IS MADE TO THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK LATEST EDITION.

MAINTENANCE

THE EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED BI--WEEKLY AND/OR AFTER EACH SIGNIFICANT RAINFALL. ANY ITEMS NOT FOUND IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK WILL BE IMMEDIATELY REPLACED AND/OR REPAIRED.

GENERAL

THE EROSION AND SEDIMENT CONTROL MEASURES INDICATED ARE THE MINIMUM MEASURES REQUIRED. DUE TO CONSTRUCTION PHASING AND OTHER CONSIDERATIONS ALL MEASURES CAN NOT BE SHOWN. THE OWNER, THROUGH HIS CONTRACTOR WILL EMPLOY WHATEVER MEASURES WHICH MAY BE REQUIRED TO ASSURE THAT SEDIMENT LADEN RUNOFF DOES NOT LEAVE THE SITE.

ALL MATERIALS AND MEASURES EMPLOYED FOR EROSION AND SEDIMENT CONTROL WILL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

IF DURING CONSTRUCTION, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES ARE DEEMED NECESSARY, THEY SHALL BE INSTALLED AS DIRECTED BY THE OWNER, ENGINEER OR COUNTY AGENT.

Roderick F. Pierson, P.E., L.L.S.
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Daleville, VA 24083

REV	DATE	DESCRIPTION	BY	APP

BELLE GROVE
PHASE III
E & S CONTROL NARRATIVE

COMMONWEALTH OF VIRGINIA
12-1-99
RODERICK F. PIERSON
NO. 023842
PROFESSIONAL ENGINEER

SCALE: NONE
COMM. NO. R98118
DATE: 10/5/99
SHEET 13 of 13

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