

ADJACENT AREAS

COVE ROAD BORDERS THE SITE TO THE SOUTH. THE AREAS TO THE NORTH AND EAST OF THE SITE ARE RESIDENTIAL

COVE ROAD SUBDIVISIONS. THE PROPERTIES TO THE WEST OF THE SITE ARE LARGE RESIDENTIAL AND COMMERCIAL

OFF-SITE AREAS
NO OFFSITE BORROW OR FILL SITES ARE COVERED BY THESE PLANS. A SEPARATE EROSION AND SEDIMENT CONTROL
PLAN IS REQUIRED FOR ANY OFFSITE BORROW OR FILL SITES, IF USED.

SOILS		
SYMBOL	SOIL TYPE	DISTURBED AREA
18C	FREDERICK, SILT LOAM, 7-15% SLC	OPES 11.9
488	TIMBERVILLE, SILT LOAM, 2-7% SL	OPES 6.9
THE FOLLOWING PR SYMBOL 18C	ROPERTIES CORRESPOND WITH SOIL TY EROSION POTENTIAL MEDIUM	IPES. PERMEABILITY MODERATE

O TO 11 INCHES, DARK YELLOWISH BROWN SILT LOAM

11 TO 21 INCHES, DARK YELLOWISH BROWN SILTY CLAY LOAM 21 TO 27 INCHES, DARK YELLOWISH BROWN SILT CLAY LAOM 27 TO 42 INCHES, YELLOWISH BROWN SILTY CLAY THAT HAS STRONG BROWN AND YELLOWISH RED MOTTLES 42 TO 48 INCHES, BROWNISH YELLOW CLAY THAT HAS BROWN AND YELLOWISH RED MOTTLES 48 TO 62 INCHES, MOTTLED BROWNISH YELLOW, YELLOWISH RED, AND

CRITICAL AREAS

IT IS CRITICAL THAT THE EROSION AND SEDIMENT CONTROL (ESC) MEASURES BE MAINTAINED TO PREVENT ANY SEDIMENT FROM COLLECTING IN COVE ROAD AND IN THE SWALE RUNNING EAST TOWARD THE INTERSECTION OF OLEVA STREET AND PORTLAND AVENUE.

BROWN GRAVELLY SILTY CLAY LOAM

GENERAL STANDARDS UNLESS OTHERWISE INDICATED, ALL EROSION AND SEDIMENT CONTROL PRACTICES AND PROCEDURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

UTILITIES HAVE BEEN COMPLETED WITHIN RIGHT-OF-WAY. INSTALL FROM CE AS CONTINUOUS ROADBED IN WHATEVER INCREMENT IS AVAILABLE (MINIMUM 100 L.F.). CONSTRUCTION TRAFFIC SHALL BE LIMITED IF A TEMPORARY MEASURE. SEE ALSO MINIMUM STANDARDS.
TO CRS ACCESS ROADS AND AREAS TO BE GRADED. TRAFFIC IS PROHIBITED FROM ENTERING DRAINAGE SWALES OR STREAMS UNLESS ABSOLUTELY NECESSARY.

SILT FENCE (SF) - STD. & SPEC. 3.05 SILT FENCE SHALL BE INSTALLED AT THE LOWER EDGE OF DISTURBED AREAS AS SHOWN ON THE PLAN. TWO TYPES OF SILT FENCE ARE SHOWN ON THE PLANS IN ACCORDANCE WITH VDOT STANDARDS. THE TALLER FENCE IS SPECIFIED AS SILT FENCE, "SF". A SHORTER FENCE IS SPECIFIED AS FILTER BARRIER,

INLET PROTECTION (IP) - STD. & SPEC. 3.07 INLET PROTECTION SHALL BE INSTALLED AT STORM DRAIN DROP OR CURB INLETS AS SHOWN ON THE

TEMPORARY DIVERSION DIKE (DD) - STD. & SPEC. 3.09 A DIVERSION DIKE IS A TEMPORARY RIDGE OF COMPACTED SOIL CONSTRUCTED AT THE TOP OR BASE OF A SLOPING DISTURBED AREA TO EITHER DIVERT RUNOFF FROM UPSLOPE AREA AWAY FROM UNPROTECTED DISTURBED AREA TO A STABILIZED OUTLET, OR TO DIVERT SEDIMENT-LADEN RUNOFF From a disturbed area to a sediment trap or basin.

TEMPORARY FILL DIVERSION (FD) - STD. & SPEC. 3.10 A TEMPORARY FILL DIVERSION IS A CHANNEL WITH A SUPPORTING RIDGE OF SOIL ON THE LOWER SIDE, CONSTRUCTED ALONG THE TOP OF AN ACTIVE EARTH FILL TO DIVERT RUNOFF FROM UPSLOPE AREA AWAY FROM UNPROTECTED SLOPE TO A STABILIZED OUTLET OR SEDIMENT TRAP/BASIN.

TEMPORARY RIGHT-OF-WAY DIVERSION (RWD) - STD. & SPEC. 3.11 A RIDGE OF COMPACTED SOIL OR LOOSE ROCK OR GRAVEL CONSTRUCTED ACROSS DISTURBED RIGHTS-OF-WAY AND SIMILAR SLOPING AREAS TO INTERCEPT AND DIVERT RUNOFF TO STABILIZED OUTLETS AT NON-EROSIVE VELOCITIES.

FAST GERMINATING, TEMPORARY VEGETATION IMMEDIATELY FOLLOWING GRADING, OR INSTALLATION

PERMANENT SEEDING (PS) - STD. & SPEC. 3.32 PERMANENT SEEDING SHALL BE INSTALLED ON ALL DISTURBED AREAS OF THE SITE NOT

MULCHING (MU) - STD. & SPEC. 3.35 ALL DISTURBED AREAS SHALL BE MULCHED AFTER SEEDING. STRAW MULCH SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE AND ANCHORED WITH 750 LBS PER ACRE OF FIBER MULCH OVER THE SEEDED AREA.

SOIL STABILIZATION BLANKETS AND MATTING (B/M) — STD. & SPEC. 3.36 SOIL STABILIZATION BLANKETS AND MATTING SHALL BE INSTALLED ON ALL SLOPES OF 3:1 OR

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL. A LOG OF DATES AND INSPECTIONS SHALL BE KEPT. ANY DEFICIENCIES THAT ARE FOUND SHALL BE CORRECTED IMMEDIATELY. ACCUMULATED SEDIMENT AT TRAPPING MEASURES SHALL BE ROUTINELY REMOVED.

ALL DITCHES, SWALES, AND NATURAL WATERCOURSES DOWNSTREAM OF THIS PROJECT SHALL BE FIELD INSPECTED DURING AND AFTER CONSTRUCTION BY THE RLD TO ENSURE COMPLIANCE WITH DCR'S MS-19. IF EROSION OR SCOUR IS OCCURRING THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL CORRECTIVE MEASURES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED AND THEN TEMPORARY MEASURES PROPERLY

- AREAS TO BE CUT AND FILLED ARE TO BE CLEARED AND GRADED IN PHASES. THIS PHASING WILL BE DONE TO MINIMIZE THE LENGTH OF TIME AREAS ARE SUBJECT TO EROSION. ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS IN THE AFFECTED AREAS.
- 5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- 6. THE PHASE I EROSION CONTROL PLAN IS BASED ON SURFACE DRAINAGE AND INTENDED TO PROTECT ADJACENT PROPERTIES FROM THE START OF CONSTRUCTION UNTIL STORM DRAIN CAN BE MADE FUNCTIONAL. PHASE I TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED OR AMENDED (PER PHASE 2 PLAN) AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO GRADE AND CONDITION INDICATED IN PHASE 2 PLAN AND PHASE 2 TEMPORARY MEASURERS INSTALLED (I.E. A SEDIMENT TRAP SHALL REMAIN IN PLACE UNTIL GRADING CAUSES FLOW TO IT TO BE SUFFICIENTLY RE-ROUTED TO STORM INLETS THAT SILT FENCE MAY BE INSTALLED TO ADEQUATELY HANDLE THE REMAINING DRAINAGE AREA AND THE TRAP REMOVED). CONTRACTOR SHALL ASSURE THAT SEDIMENT LADEN FLOW DOES NOT BYPASS MEASURES.
- 7. INSTALL INLET PROTECTION AND OUTLET PROTECTION ALONG WITH STORM DRAIN CONSTRUCTION.
- SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES AS NEEDED. THIS INCLUDES SOIL TRANSPORTED FROM THE SITE.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED WITH IMPROVEMENTS OR ESTABLISHED VEGETATION.

THIS PLAN IS FOR EROSION & SEDIMENT CONTROL PURPOSED ONLY

COMMISSION NO: WVWA ID# 6QZNNW SHEET 10 OF 16

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

SEDIMENT SEDIMENT ONTROL PLAN PHASE 1

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BLA TUATET