

City of Williamsburg & County of James City
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 BETSY B. WOOLRIDGE, CLERK
 Pamela Jarrett, Dep. Clerk

140002075

JAMES CITY COUNTY ENVIRONMENTAL DIVISION EROSION AND SEDIMENT CONTROL
 NOTES REVISED 07/06/01

THE PURPOSE OF THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE TO PRECLUDE THE TRANSPORT OF ALL WATERBORNE SEDIMENTS RESULTING FROM CONSTRUCTION ACTIVITIES FROM ENTERING ONTO ADJACENT PROPERTIES OR STATE WATERS. IF FIELD INSPECTION REVEALS THE INADEQUACY OF THE PLAN TO CONFINE SEDIMENT TO THE PROJECT SITE, ALL APPROPRIATE MODIFICATIONS WILL BE MADE TO CORRECT ANY PLAN DEFICIENCIES. IN ADDITION TO THESE NOTES, ALL PROVISIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS SHALL APPLY TO THIS PROJECT.

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3RD EDITION, 1992. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL APPLICABLE MEASURES CONTAINED THEREIN THAT MAY BE PERTINENT TO THIS PROJECT, INCLUDING MINIMUM STANDARDS 1 THROUGH 19. IF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS FOUND TO BE INADEQUATE IN THE FIELD, THE MINIMUM STANDARDS WILL APPLY IN ADDITION TO THE PROVISIONS OF THE APPROVED PLAN.
- AS A PREREQUISITE TO APPROVAL OF AN EROSION AND SEDIMENT CONTROL PLAN FOR LAND-DISTURBING ACTIVITIES, THE NAME OF A RESPONSIBLE LAND-DISTURBER SHALL BE PROVIDED. THE RESPONSIBLE LAND-DISTURBER SHALL BE AN INDIVIDUAL WHO HOLDS A VALID CERTIFICATE OF COMPETENCE ISSUED BY THE VIRGINIA DEPARTMENT OF CONSERVATION AND IS DEFINED AS THE PERSON IN CHARGE OF AND RESPONSIBLE FOR CARRYING OUT THE LAND-DISTURBING ACTIVITY. PERMITS OR PLANS WITHOUT THIS INFORMATION ARE DEEMED INCOMPLETE AND WILL NOT BE APPROVED UNTIL PROPER NOTIFICATION IS RECEIVED. ALSO, IF THE PERSON DESIGNATED AS RESPONSIBLE LAND-DISTURBER CHANGES BETWEEN THE TIME OF PLAN APPROVAL AND THE SCHEDULED PRE-CONSTRUCTION MEETING, THE ENVIRONMENTAL DIVISION SHALL BE INFORMED OF THE CHANGE, IN WRITING, 24-HOURS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING.
- A PRE-CONSTRUCTION MEETING SHALL BE HELD ON SITE BETWEEN THE COUNTY, THE DEVELOPER, THE PROJECT ENGINEER, THE RESPONSIBLE LAND-DISTURBER, AND THE CONTRACTOR PRIOR TO ISSUANCE OF THE LAND DISTURBING PERMIT. THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION TO THE COUNTY FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING FOR THE PROJECT.
- ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED BY A TEMPORARY CONSTRUCTION ENTRANCE TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHT-OF-WAYS. AN ENTRANCE PERMIT FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) IS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN STATE RIGHT OF WAYS, WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE THOROUGHLY CLEANED AT THE END OF EACH DAY (STD. & SPEC 3.02).
- SEDIMENT BASINS AND TRAPS (STD. & SPEC 3.13 AND 3.14), PERIMETER DIKES (STD. & SPEC 3.09 AND 3.12), SEDIMENT FILTER BARRIERS (STD. & SPEC 3.05) AND OTHER MEASURES INTENDED TO TRAP SEDIMENT ON-SITE MUST BE CONSTRUCTED AS A FIRST STEP IN GRADING AND MUST BE MADE FUNCTIONAL PRIOR TO ANY UP-SLOPE LAND DISTURBANCE TAKING PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER INSTALLATION. PERIODIC INSPECTIONS OF THE EROSION CONTROL MEASURES BY THE OWNER OR OWNERS REPRESENTATIVES SHALL BE MADE TO ASSESS THEIR CONDITION. ANY NECESSARY MAINTENANCE OF THE MEASURES SHALL BE ACCOMPLISHED IMMEDIATELY AND SHALL INCLUDE THE REPAIR OF MEASURES DAMAGED BY ANY SUBCONTRACTOR INCLUDING THOSE OF THE PUBLIC UTILITY COMPANIES.
- IF SURFACE FLOWS OVER CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER REDIRECTING FLOWS FROM TRANSVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO SAFELY LOWER WATER DOWNSLOPE WITHOUT CAUSING EROSION. A TEMPORARY FILL DIVERSION (STD. & SPEC. 3.10) AND SLOPE DRAIN (STD. & SPEC. 3.15) SHALL BE INSTALLED PRIOR TO THE END OF EACH WORKING DAY.
- SEDIMENT CONTROL MEASURES MAY REQUIRE MINOR FIELD ADJUSTMENTS AT TIME OF CONSTRUCTION TO INSURE THEIR INTENDED PURPOSE IS ACCOMPLISHED. ENVIRONMENTAL DIVISION APPROVAL WILL BE REQUIRED FOR OTHER DEVIATIONS FROM THE APPROVED PLAN.
- THE CONTRACTOR SHALL PLACE SOIL STOCKPILES AT THE LOCATIONS SHOWN ON THE PLAN. SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. OFF-SITE WASTE OR BORROW AREAS SHALL BE APPROVED BY THE ENVIRONMENTAL DIVISION PRIOR TO THE IMPORT OF ANY BORROW OR EXPORT OF ANY WASTE TO OR FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL COMPLETE DRAINAGE FACILITIES WITHIN 30 DAYS FOLLOWING COMPLETION OF ROUGH GRADING AT ANY POINT WITHIN THE PROJECT. THE INSTALLATION OF DRAINAGE FACILITIES SHALL TAKE PRECEDENCE OVER ALL UNDERGROUND UTILITIES. OUTFALL DITCHES FROM DRAINAGE STRUCTURES SHALL BE STABILIZED IMMEDIATELY AFTER CONSTRUCTION OF THE SAME (STD. & SPEC. 3.19). THIS INCLUDES INSTALLATION OF EROSION CONTROL STONE OR PAVED DITCHES WHERE REQUIRED. ANY DRAINAGE OUTFALLS REQUIRED FOR A STREET MUST BE COMPLETED BEFORE STREET GRADING OR UTILITY INSTALLATION BEGINS.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- IF DISTURBED AREA STABILIZATION IS TO BE ACCOMPLISHED DURING THE MONTHS OF DECEMBER, JANUARY, OR FEBRUARY, STABILIZATION SHALL CONSIST OF MULCHING (STD. & SPEC. 3.35). SEEDING WILL THEN TAKE PLACE AS SOON AS THE SEASON PERMITS.
- THE TERM SEEDING, FINAL VEGETATION COVER, OR STABILIZATION ON THIS PLAN SHALL MEAN THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF A STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF SEED, LIME, AND FERTILIZER (STD. & SPEC. 3.32). IRRIGATION SHALL BE REQUIRED AS NECESSARY TO ENSURE ESTABLISHMENT OF GRASS COVER.
- ALL SLOPES STEEPER THAN 3H:1V SHALL REQUIRE THE USE OF EROSION CONTROL BLANKETS AND MATTINGS TO AID IN THE ESTABLISHMENT OF A VEGETATIVE COVER. INSTALLATION SHALL BE IN ACCORDANCE WITH STD. & SPEC. 3.35, MULCHING, STD. & SPEC. 3.36, SOIL STABILIZATION BLANKETS AND MATTING AND MANUFACTURERS INSTRUCTIONS. NO SLOPES SHALL BE CREATED STEEPER THAN 2H:1V.
- INLET PROTECTION (STD. & SPEC. 3.07 AND 3.08) SHALL BE PROVIDED FOR ALL STORM DRAIN AND CULVERT INLETS FOLLOWING CONSTRUCTION OF THE SAME.
- TEMPORARY LINERS, SUCH AS POLYETHYLENE SHEETS, SHALL BE PROVIDED FOR ALL PAVED DITCHES UNTIL THE PERMANENT CONCRETE LINER IS INSTALLED.
- PAVED DITCHES SHALL BE REQUIRED WHEREVER ACCELERATED EROSION IS EVIDENT. PARTICULAR ATTENTION SHALL BE PAID TO THOSE AREAS WHERE GRADES EXCEED 3 PERCENT.
- TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. TRAPPED SEDIMENT SHALL BE SPREAD, SEEDED, AND MULCHED. AFTER THE PROJECT AND STABILIZATION IS COMPLETE, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS.
- NO SEDIMENT TRAP OR SEDIMENT BASIN SHALL BE REMOVED UNTIL A) AT LEAST 75 PERCENT OF THE LOTS WITHIN THE DRAINAGE AREA TO THE TRAP OR BASIN HAVE BEEN SOLD TO A THIRD PARTY (UNRELATED TO THE DEVELOPER) FOR THE CONSTRUCTION OF HOMES; AND/OR B) 60 PERCENT OF THE SINGLE-FAMILY LOTS WITHIN THE DRAINAGE AREA TO THE TRAP OR BASIN HAVE BEEN COMPLETED AND THE SOIL STABILIZED. A BULK SALE OF THE LOTS TO ANOTHER BUILDER DOES NOT SATISFY THIS PROVISION. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL NOT BE REMOVED WITHOUT THE EXPRESS AUTHORIZATION OF THE JAMES CITY COUNTY ENVIRONMENTAL DIVISION.
- RECORD DRAWINGS (AS-BUILTS) AND CONSTRUCTION CERTIFICATIONS ARE BOTH REQUIRED FOR NEWLY CONSTRUCTED OR MODIFIED STORMWATER MANAGEMENT/BMP FACILITIES. CERTIFICATION ACTIVITIES SHALL BE ADEQUATELY COORDINATED AND PERFORMED BEFORE, DURING, AND FOLLOWING CONSTRUCTION IN ACCORDANCE WITH THE CURRENT VERSION OF THE JAMES CITY COUNTY ENVIRONMENTAL DIVISION, STORMWATER MANAGEMENT/BMP FACILITIES, RECORD DRAWING AND CONSTRUCTION CERTIFICATION, STANDARD FORMS AND INSTRUCTIONS.
- DESIGN AND CONSTRUCTION OF PRIVATE-TYPE SITE DRAINAGE SYSTEMS OUTSIDE VDOT RIGHT-OF-WAYS SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT VERSION OF THE JAMES CITY COUNTY ENVIRONMENTAL DIVISION, STORMWATER DRAINAGE CONVEYANCE SYSTEMS (NON BMP RELATED), GENERAL DESIGN AND CONSTRUCTION GUIDELINES. EROSION NOTES: WPD

LITTLE CREEK DAM ROAD
STATE ROUTE #665
50' R/W

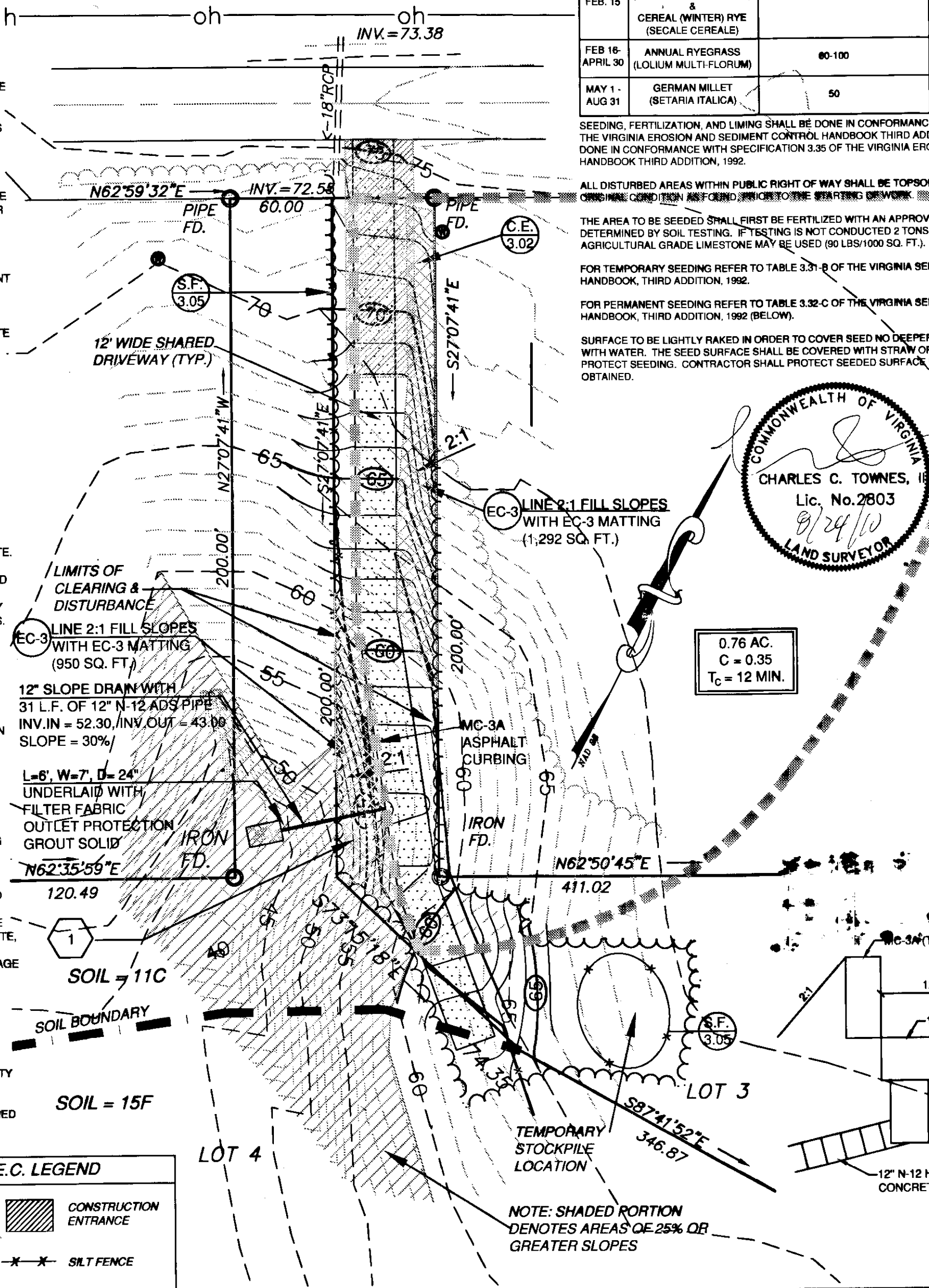


TABLE 3.31-B
 ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS
 "QUICK REFERENCE FOR ALL REGIONS"

| DATES | SPECIES | RATE (LBS./ACRE) |
|-------------------|--|------------------|
| SEPT 1 - FEB 15 | 50/50 MIX ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) & CEREAL (WINTER) RYE (SECALE CEREALE) | 50-100 |
| FEB 16 - APRIL 30 | ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) | 60-100 |
| MAY 1 - AUG 31 | GERMAN MILLET (SETARIA ITALICA) | 50 |

SOIL MAP UNIT LEGEND

| | |
|-----------------------|--|
| MAP UNIT SYMBOL - 11C | MAP UNIT NAME - CRAVEN-UCHEE 6 TO 10 PERCENT SLOPES ACRES IN AOI - 0.2 PERCENT OF AOI - 62.1% |
| MAP UNIT SYMBOL - 15F | MAP UNIT NAME - EMPORIA COMPLEX, 25 TO 50 PERCENT SLOPES ACRES IN AOI - 0.1 PERCENT OF AOI - 37.9% |

TABLE 3.32-D
 SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

| MINIMUM LAWN CARE | TOTAL (LBS./ACRE) |
|---|---------------------------|
| COMMERCIAL OR RESIDENTIAL KENTUCKY 31 OR TURF-TYPE TALL FESCUE IMPROVED PERENNIAL RYEGRASS* KENTUCKY BLUE GRASS | 175 200 LBS. 65-100% 0-5% |
| HIGH-MAINTENANCE LAWN | |
| MINIMUM OF THREE (3) UP TO FIVE (5) VARIETIES OF BLUEGRASS FROM APPROVED LIST FOR USE IN VA | 200-250 LBS. |
| GENERAL SLOPE (3:1 OR LESS) | |
| KENTUCKY 31 FESCUE RED TOP GRASS SEASON NURSE CROP* | 120 LBS. 2 LBS. 20 LBS. |
| LOW MAINTENANCE SLOPE (STEEPER THAN 3:1) | |
| KENTUCKY 31 FESCUE RED TOP GRASS SEASON NURSE CROP* CROWN VETCH** | 100 LBS. 2 LBS. 20 LBS. |
| | 160 LBS TOTAL |

SEEDING, FERTILIZATION, AND LIMING SHALL BE DONE IN CONFORMANCE WITH SPECIFICATION 3.32 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK THIRD ADDITION, 1992. MULCHING SHALL BE DONE IN CONFORMANCE WITH SPECIFICATION 3.35 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK THIRD ADDITION, 1992.

ALL DISTURBED AREAS WITHIN PUBLIC RIGHT OF WAY SHALL BE TOPSOILED, SEEDED AND RESTORED TO ORIGINAL CONDITION AND FERTILIZED PRIOR TO THE STARTING OF WORK.

THE AREA TO BE SEEDED SHALL FIRST BE FERTILIZED WITH AN APPROVED LIME/FERTILIZER MIXTURE DETERMINED BY SOIL TESTING. IF TESTING IS NOT CONDUCTED 2 TONS/ACRE OF PULVERIZED AGRICULTURAL GRADE LIMESTONE MAY BE USED (90 LBS/1000 SQ. FT.).

FOR TEMPORARY SEEDING REFER TO TABLE 3.31-B OF THE VIRGINIA SEDIMENT AND EROSION CONTROL HANDBOOK, THIRD ADDITION, 1992.

FOR PERMANENT SEEDING REFER TO TABLE 3.32-C OF THE VIRGINIA SEDIMENT AND EROSION CONTROL HANDBOOK, THIRD ADDITION, 1992.

SURFACE TO BE LIGHTLY RAKED IN ORDER TO COVER SEED NO DEEPER THAN 1/4\"

EROSION & SEDIMENT CONTROL NARRATIVE

SITE LOCATION: THIS PROJECT IS LOCATED OFF OF LITTLE CREEK DAM ROAD IN JAMES CITY COUNTY, VIRGINIA.

PROJECT DESCRIPTION: SHEPHERD'S LANDING PARTNERSHIP THROUGH THE SERVICES OF TOWNES, PC HAS PREPARED A SUBDIVISION PLAN FOR THE DEVELOPMENT OF 27.6 ACRE TRACT OF LAND IN JAMES CITY COUNTY, VIRGINIA. THIS NEW SUBDIVISION WAS DESIGNED "BY RIGHT" IN ACCORDANCE WITH THE JAMES CITY COUNTY ZONING ORDINANCE UNDER THE A-1 DESIGNATION. THE SITE IS LOCATED NORTH OF YARMOUTH CREEK AND SOUTH OF LITTLE CREEK DAM ROAD. THE PROPOSED DEVELOPMENT INCLUDES 4 LOTS.

EXISTING SITE CONDITIONS: THE SITE IS HEAVILY WOODED WITH SOME WETLAND AND TIDAL WETLAND AREAS. SITE TOPOGRAPHY RANGES FROM MODERATE SLOPES ON TOP OF THE RIDGE AND STEEP SLOPES IN THE VICINITY OF CREEKS AND WETLAND AREAS. THE SITE CURRENTLY DRAINS TOWARD YARMOUTH CREEK.

ADJACENT AREAS: THIS SITE IS ADJACENT TO OTHER AGRICULTURAL PROPERTIES.

OFF-SITE AREAS: THERE WILL BE NO OFF-SITE AREAS DISTURBED WITH THIS DEVELOPMENT.

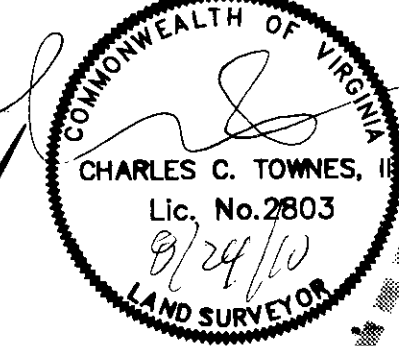
SOILS: SEE SOIL TABLE ON THIS SHEET.

CRITICAL AREAS: CRITICAL AREAS OF THE SITE INCLUDE THE WETLANDS AND YARMOUTH CREEK. EROSION CONTROL MEASURES WILL BE APPLIED TO AVOID THE SILTATION OF THE WETLAND AREAS AND YARMOUTH CREEK.

EROSION AND SEDIMENT CONTROL MEASURES: WHEREVER POSSIBLE, THE DESIGN HAS TAKEN INTO ACCOUNT THE ROLLING NATURE OF THE SITE TOPOGRAPHY. CUT AND FILL AREAS HAVE BEEN MINIMIZED AND GENERALLY OCCUR WITHIN OR ADJACENT TO THE PROPOSED RIGHT OF WAY. TREE CLEARING WILL BE MINIMAL. MUCH OF THE OF THE TREE CLEARING IS FOR RIGHT OF WAY AND STORMWATER MANAGEMENT INSTALLATIONS. SILT TRAPS AND BASINS HAVE BEEN PROVIDED TO PREVENT SEDIMENT-LOADED RUNOFF FROM REACHING DOWNSTREAM WETLANDS AND ADJACENT PROPERTIES.

PERMANENT STABILIZATION: PERMANENT SEEDING WILL BE USED TO STABILIZE THE SITE DURING LARGE EARTHWORK OPERATIONS AND AFTER CONSTRUCTION IS COMPLETE. A SCHEDULE HAS BEEN PROVIDED IN THE CONSTRUCTION PLAN SET.

STORMWATER RUNOFF CONSIDERATIONS: THE DISTURBED AREAS ON THE SITE DRAIN TO A NATURAL DRAW THAT ULTIMATELY DISCHARGES INTO THE TIDAL WETLANDS. THE CONTRIBUTING ADDITIONAL RUNOFF CAUSED BY THIS DEVELOPMENT IS LESS THAN 1% OF THE TOTAL RUNOFF FOR THE WATERSHED.



0.76 AC.
 C = 0.35
 Tc = 12 MIN.

E.C. LEGEND

| | |
|-------------|-----------------------|
| (C.E. 3.02) | CONSTRUCTION ENTRANCE |
| (S.F. 3.05) | SILT FENCE |

- CONSTRUCTION SEQUENCE**
- INSTALL CONSTRUCTION ENTRANCE OFF OF LITTLE CREEK DAM ROAD.
 - INSTALL SILT FENCE (S.F. 3.05) AS SHOWN.
 - CLEAR AND GRUB AREAS AS SHOWN BY THE LIMITS OF DISTURBANCE.
 - INSTALL DRIVEWAY.
 - STABILIZE ANY DENUDED AREAS.

CHIEFTAIN'S VILLAGE
 LOTS 3 & 4 SHARED DRIVEWAY
 GRADING PLAN

POWhatan DISTRICT
 JAMES CITY COUNTY, VA
 APRIL 5, 2010 SCALE: 1"=30'
 REVISED: MAY 17, 2010

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