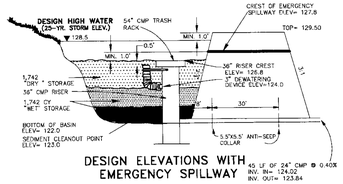
TEMPORARY SEDIMENT BASIN

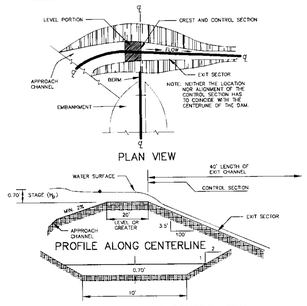
SEDIMENT BASIN SCHEMATIC ELEVATIONS



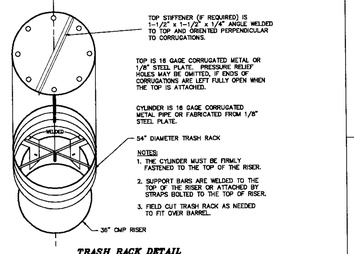
DESIGN ELEVATIONS WITH EMERGENCY SPILLWAY

40 LF OF 24" CMP @ 0.40% INV. IN= 124.02 INV. OUT= 123.84

EXCAVATED EARTH SPILLWAY

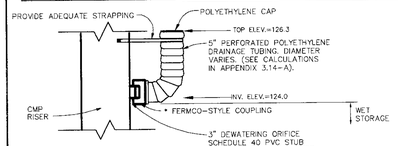


CROSS-SECTION AT CONTROL SECTION



TRASH RACK DETAIL

N.T.S.

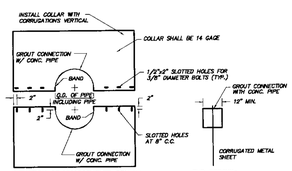


RECOMMENDED DEWATERING SYSTEM FOR SEDIMENT BASINS

NO SCALE

NOTE: WITH CONCRETE RISER, USE PVC SCHEDULE 40 STUB FOR DEWATERING ORIFICE.

* DRAINAGE TUBING SHALL COMPLY WITH ASTM F667 AND AASHTO M294



NOTES FOR COLLAR:

1. UNASSEMBLED COLLARS SHALL BE MARKED BY PAINTING OR TAGGING TO IDENTIFY MATCHING PAIRS.
2. THE LAP BETWEEN THE TWO HALF SECTIONS AND BETWEEN THE PIPE AND CONNECTING BAND SHALL BE GASKETED WITH ASPHALT MASTIC AT TIME OF INSTALLATION.

CORRUGATED METAL ANTI-SEEP COLLAR DETAIL

NO SCALE

EROSION CONTROL SEQUENCE OF EVENTS

1. NOTIFY THE PRINCE GEORGE COUNTY PLANNING DEPT. AT (804) 733-2608 AND VDOT FOR A PRECONSTRUCTION MEETING AND ON-SITE VISIT ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
2. BEGIN CLEARING AND GRUBBING OPERATIONS IN AREAS OF SEDIMENT BASIN AND SILT FENCE AS PER PLAN.
3. INSTALL CONSTRUCTION ENTRANCE, TEMPORARY SEDIMENT BASIN AND PERIMETER SILT FENCE AS PER PLAN.
4. COMPLETE CLEARING AND GRUBBING OPERATIONS. STABILIZE THE SITE WITH VEGETATION AND STRAW MULCH ACCORDING TO STATE REGULATIONS.
5. BEGIN ROAD CONTRUCTION, AND INSTALL STORM SEWER, DRAINAGE DITCHES, AND UTILITIES AS PER PLAN.
6. IMMEDIATELY AFTER PLACING BASE STONE AND INSTALATION OF CURB & GUTTER, INSTALL INLET PROTECTION AS PER PLAN.
7. FINISH ROAD CONSTRUCTION AS SHOWN ON PLANS. SEED DENUDED AREAS AS SOON AS POSSIBLE AND MULCH ALL DISTURBED AREAS. INSTALL PAVEMENT.
8. ONCE ROAD CONSTRUCTION IS COMPLETE, AND SITE IS STABILIZED, COMPLETELY FLUSH STORM SEWER STRUCTURES TO REMOVE ANY ACCUMULATED SEDIMENT. CONVERT TEMPORARY SEDIMENT BASIN TO PERMANENT STORM WATER MANAGEMENT BASIN, PER DIRECTION ON SHEET C2.3.
9. CONTINUING MAINTENANCE PRACTICES SHALL BE PERFORMED TO ENSURE PROTECTION OF DOWNSTREAM PROPERTIES.
10. NO EROSION CONTROL DEVICE SHALL BE REMOVED UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN OBTAINED.

NOTE: ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN ARE TO BE CONSTRUCTED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH THE CURRENT EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATION VR 625-02-00.

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A SINGLE FAMILY RESIDENTIAL SUBDIVISION LOCATED ON PRINCE GEORGE DRIVE. APPROXIMATELY 27.0 AC. OF LAND DISTURBANCE WILL OCCUR DURING THE CONSTRUCTION OF THIS SUBDIVISION. THE LAND DISTURBANCE WILL INCLUDE CUT AND FILL GRADING ACTIVITIES, AND SOME CLEARING.

EXISTING SITE CONDITIONS: THE SITE IS LOCATED ON THE WEST SIDE OF PRINCE GEORGE DRIVE, AND IS PARTIALLY WOODED. THE SLOPES VARY FROM 0.3% TO APPROXIMATELY 5.0%

ADJACENT AREAS: THE SITE IS SURROUNDED BY SINGLE FAMILY RESIDENCES TO THE NORTH, SOUTH AND WEST, AND PRINCE GEORGE DRIVE ON THE EAST.

OFFSITE AREAS: THIS DEVELOPMENT WILL REQUIRE THE CONSTRUCTION OF OFFISTE SEWER AND WATERLINES. ALL OFFISITE CONSTRUCTION WILL BE WITHIN EXISTING RIGHT OF WAYS OR EASEMENTS.

SOILS: THE SOILS ON THIS SITE CONSIST OF FINE SANDY AND SILT LOAM AND LOAMY SAND.

CRITICAL AREAS: THERE ARE NO CRITICAL AREAS OF EROSION OR WATER QUALITY PROBLEMS ON THIS SITE.

EROSION AND SEDIMENT CONTROL MEASURES: TEMPORARY SEDIMENT BASIN, PERIMETER SILT FENCE, AND INLET PROTECTION INSTALLED ON THE PROPOSED STRUCTURES WILL SERVE AS THE PRIMARY EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PROCESS.

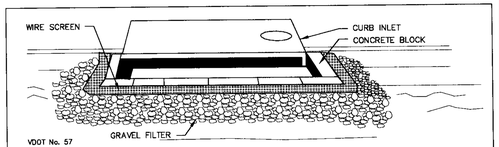
PERMANENT STABILIZATION: ALL DENUDED AND UNGRAVELLED AREAS SHALL BE SEEDED IN ACCORDANCE WITH STATE REGULATIONS.

STORMWATER RUNOFF CONSIDERATIONS: THE STORMWATER MANAGEMENT BASIN HAS BEEN DESIGNED TO RELEASE RUNOFF FROM A 10 YEAR POST-DEVELOPMENT STORM AT A 2 YEAR PRE-DEVELOPMENT RATE.

CALCULATIONS: ALL STORM SEWER AND MS-19 ANALYSIS CALCULATIONS HAVE BEEN SUBMITTED TO COUNTY AND STATE OFFICIALS FOR REVIEW.

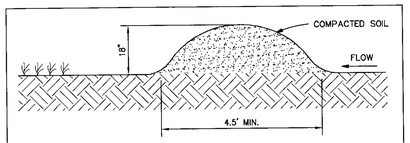
EROSION CONTROL GENERAL NOTES

1. CONTACT THE PRINCE GEORGE PLANNING DEPARTMENT AT (804) 733-2608 PRIOR TO COMMENCING ANY LAND DISTURBANCE ACTIVITIES ON THE SITE.
2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
3. THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
8. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
9. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
10. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
11. 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
12. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF SEDIMENT THAT HAS BEEN TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOILS WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS, OR HARM ANIMALS OR PLANT LIFE.



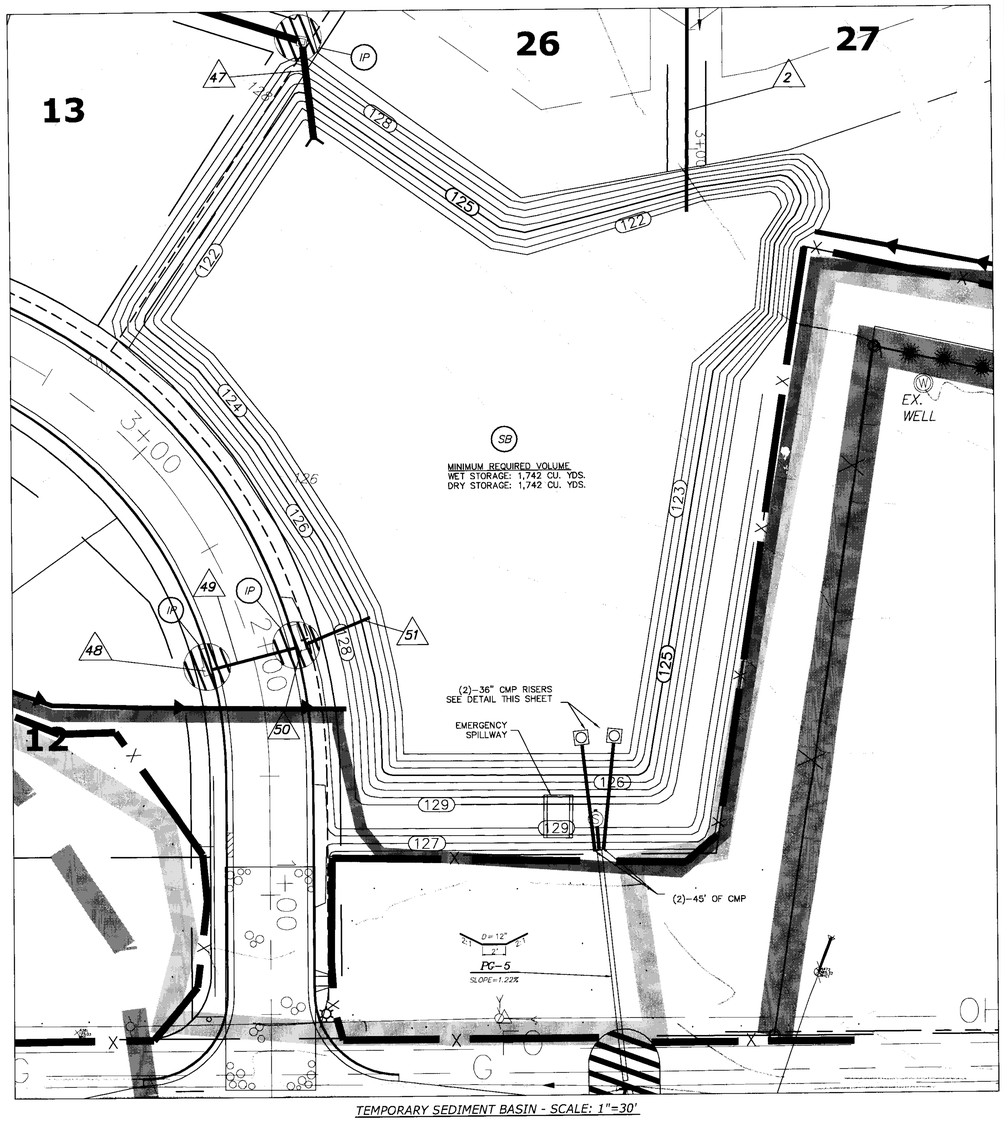
IP **BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER**

NO SCALE

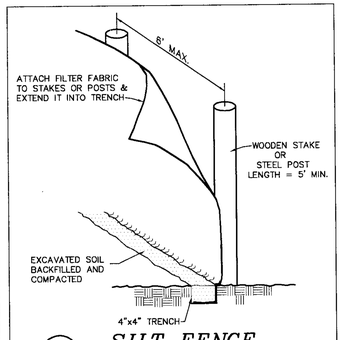


DD **TEMPORARY DIVERSION DITCH** 3.09-1

NO SCALE



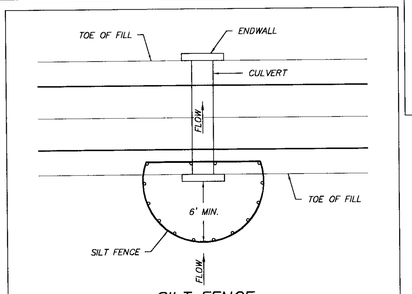
TEMPORARY SEDIMENT BASIN - SCALE: 1"=30'



SF **SILT FENCE** (WITHOUT WIRE SUPPORT)

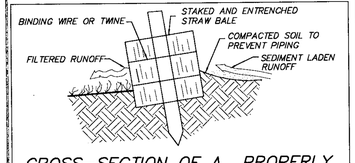
NO SCALE

SOURCE: VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 1993, 3RD ED. PLATE: 3.05-2



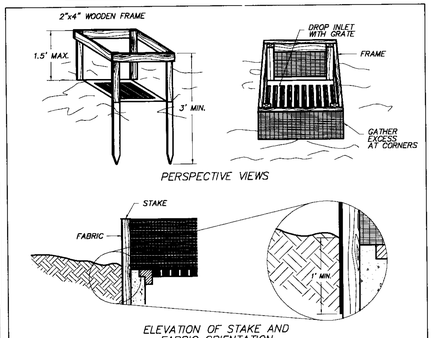
CIP **SILT FENCE CULVERT INLET PROTECTION** 3.08-1

NO SCALE



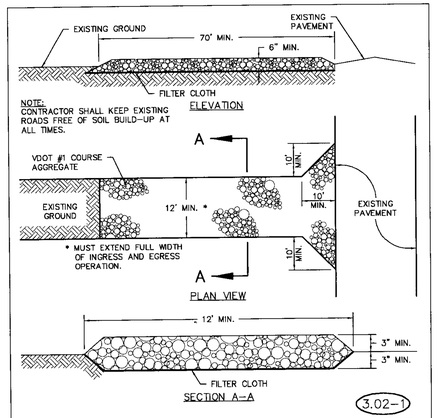
STB **CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE** 3.04-1

NO SCALE



IP **SILT FENCE DROP INLET PROTECTION** 3.07-1

NO SCALE



3.02-1

CE **STONE CONSTRUCTION ENTRANCE**

NO SCALE

SOURCE: VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3RD ED., 1993 PLATE: 3.02-1

CONTRACTOR SHALL KEEP EXISTING ROADS FREE OF SOIL BUILD-UP AT ALL TIMES.

COMMONWEALTH OF VIRGINIA
DERRICK A. JOHNSON
Lic. No. 24761
10-16-09
PROFESSIONAL ENGINEER

VIRGINIA | NORTH CAROLINA | WEST VIRGINIA

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DATE	REVISION DESCRIPTION
8-30-05	COUNTY & VDOT COMMENTS
11-07-05	COUNTY & VDOT COMMENTS

DATE	REVISION DESCRIPTION

DATE 6-20-05

DRAWN BY K.HALPAUS

DESIGNED BY K.HALPAUS

CHECKED BY D. JOHNSON

SCALE AS SHOWN

TIMMONS GROUP

TOOMBS SUBDIVISION

BLAND DISTRICT * PRINCE GEORGE COUNTY, VIRGINIA

EROSION CONTROL NOTES AND DETAILS

JOB NO. 22247

SHEET NO. C4.2

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