PERMANENT SEEDING SEQUENCE

A. SEEDING SCHEDULE: DISTURBED AREAS WILL BE SEEDED WITHIN 30 DAYS AFTER GRADING IN ACCORDANCE WITH BELOW:

(1) 100 POUNDS PER 1,000 SQ. FT. GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST IS REQUIRED FOR INITIAL ESTABLISHMENT.

(2) 20 POUNDS OF 10-10-10 FERTILIZER OR EQUIVALENT PER 1,000 SQ. FT.

(3) VARIETIES TO BE SEEDED:

(a) SUMMER SEEDING: MAY 1ST – AUGUST 1ST, RED FESCUE: 4 POUNDS PER 1,000 SQ. FT.

(b) AUTUMN SEEDING: AUGUST 1ST – NOVEMBER 15TH, KENTUCKY 31 TALL FESCUE: 1-1/2 POUNDS PER 1,000 SQ. FT.

(c) SPRING SEEDING: MARCH 1ST – APRIL 30TH, SPRING OAT: 25 POUNDS PER 1,000 SQ. FT.

(d) MULCH: 100 POUNDS OF STRAW PER 1,000 SQ. FT., ALL SEEDING IS TO BE MULCHED.

TEMPORARY SEEDING SEQUENCE

A. SEEDING SCHEDULE: DISTURBED AREAS WILL BE SEEDED WITHIN 30 DAYS AFTER GRADING IN ACCORDANCE WITH BELOW:

(1) 100 POUNDS PER 1,000 SQ. FT. GROUND LIMESTONE OR EQUIVALENT. NO SOIL TEST IS REQUIRED FOR INITIAL ESTABLISHMENT.

(2) 14 POUNDS OF 10-20-10 FERTILIZER OR EQUIVALENT PER 1,000 SQ. FT.

(3) VARIETIES TO BE SEEDED:

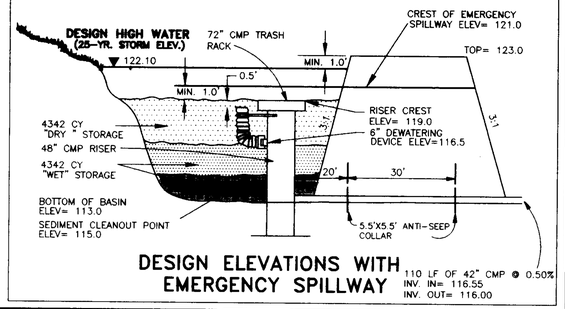
(a) SUMMER SEEDING: MAY 1ST – AUGUST 1ST, GERMAN MILLET: 50 LBS. PER ACRE.

(b) AUTUMN SEEDING: AUGUST 1ST – FEBRUARY 28TH, 50/50 MIX ANNUAL RYEGRASS & WINTER RYE: 50 LBS. PER ACRE.

(c) SPRING SEEDING: MARCH 1ST – APRIL 30TH, ANNUAL RYEGRASS: 60 LBS. PER ACRE.

(d) MULCH: 100 POUNDS OF STRAW PER 1,000 SQ. FT., ALL SEEDING IS TO BE MULCHED.

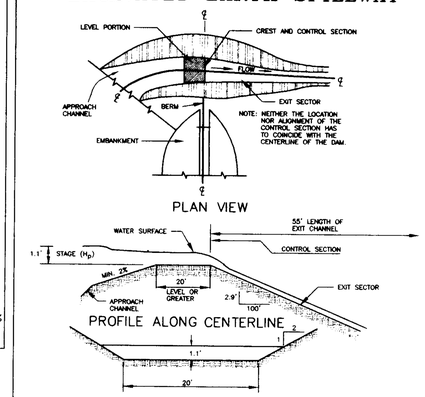
SEDIMENT BASIN SCHEMATIC ELEVATIONS



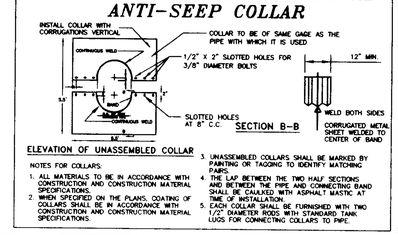
DESIGN ELEVATIONS WITH EMERGENCY SPILLWAY

110 LF OF 42" CMP @ 0.50%
INV. IN= 116.55
INV. OUT= 116.00

EXCAVATED EARTH SPILLWAY



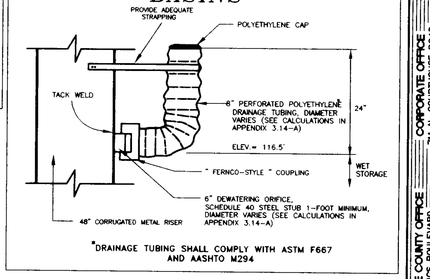
DETAILS OF CORRUGATED METAL ANTI-SEEP COLLAR



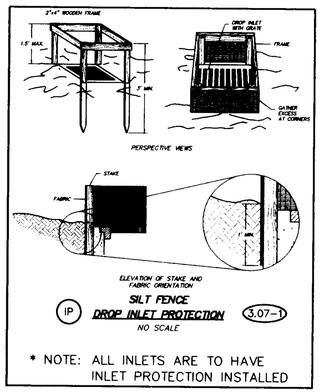
NOTES FOR COLLARS:

1. ALL MATERIALS TO BE IN ACCORDANCE WITH CONSTRUCTION AND CONSTRUCTION MATERIAL SPECIFICATIONS.
2. WHEN SPECIFIED ON THE PLANS, COATING OF COLLARS SHALL BE IN ACCORDANCE WITH CONSTRUCTION AND CONSTRUCTION MATERIAL SPECIFICATIONS.
3. UNASSEMBLED COLLARS SHALL BE MARKED BY PAINTING OR TAGGING TO IDENTIFY MATCHING PARTS.
4. THE LAP BETWEEN THE TWO HALF SECTIONS AND BETWEEN THE PIPE AND CONNECTING BAND SHALL BE CAULKED WITH ASPHALT MASTIC AT TIME OF INSTALLATION.
5. EACH COLLAR SHALL BE FURNISHED WITH TWO 1/2" DIAMETER RODS WITH STANDARD TANK LUGS FOR CONNECTING COLLARS TO PIPE.

RECOMMENDED DEWATERING SYSTEM FOR SEDIMENT BASINS



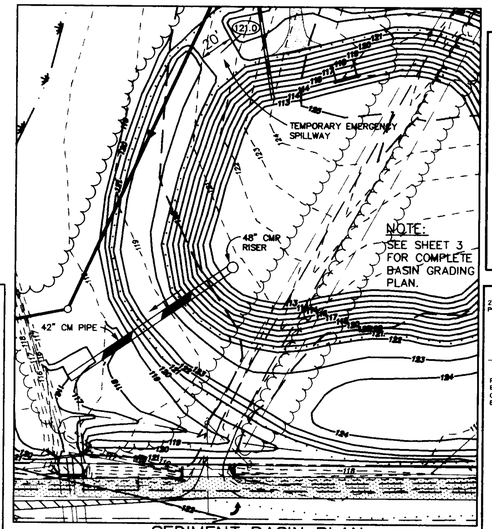
*DRAINAGE TUBING SHALL COMPLY WITH ASTM F667 AND AASHTO M294



IP SILT FENCE DROP INLET PROTECTION 3.07-1

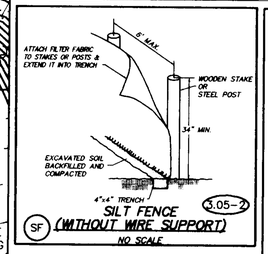
NO SCALE

* NOTE: ALL INLETS ARE TO HAVE INLET PROTECTION INSTALLED



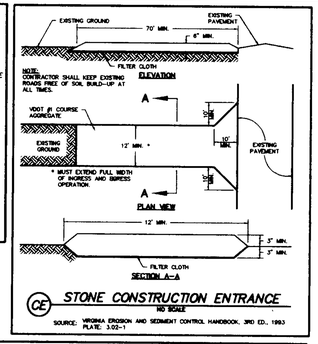
SEDIMENT BASIN PLAN

SCALE: 1"=40'



SF SILT FENCE (WITHOUT WIRE SUPPORT) 3.05-2

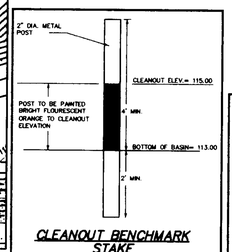
NO SCALE



CE STONE CONSTRUCTION ENTRANCE

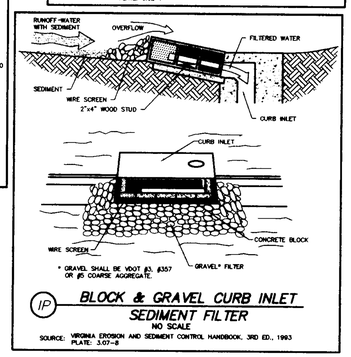
NO SCALE

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



CLEANOUT BENCHMARK STAKE

NO SCALE



IP BLOCK & GRAVEL CURB INLET SEDIMENT FILTER

NO SCALE

SOURCE: VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3RD ED., 1993 PLATE: 3.07-8

EROSION CONTROL NARRATIVE

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A 3-LOT SUBDIVISION WITHIN THE PROPOSED GEORGE TONNE SUBDIVISION, WITH ASSOCIATED UTILITIES INCLUDING SEWER AND WATER SERVICES. APPROXIMATELY 1.5 ACRES WILL BE DISTURBED DURING THE CONSTRUCTION PERIOD. THE SECTION IS APPROX 22 ACRES LOCATED IN PRINCE GEORGE COUNTY, VIRGINIA OFF ROUTE 616, LAUREL SPRING ROAD, IN THE VICINITY OF THE PRINCE GEORGE COUNTY COURTHOUSE.

THE SITE HAS ROLLING TOPOGRAPHY WITH SLOPES VARYING FROM 2-8%. THE SITE IS CURRENTLY MIXED WITH AREAS OF DENSE WOODS AND ALSO CLEARINGS OF GRASSY AREAS. THE STORMWATER DRAINAGE WILL BE CONTAINED BY CURB AND GUTTER TYPE SYSTEM AND WILL OUTFALL BETWEEN LOTS 2A AND 3D AND ALSO BETWEEN LOTS 3 AND 4. WETLANDS HAVE BEEN LOCATED AROUND THE CREEK ON THE WESTERN SIDE OF THE PROJECT WHICH LESS THAN 1/3 ACRE WILL BE DISTURBED IN THE DEVELOPMENT OF THIS SECTION. THE DRAINAGE SYSTEM HAS BEEN DESIGNED TO RECEIVE THE RUNOFF OF SOME FUTURE SECTIONS.

THE EXISTING DRAINAGE PATTERN IS DIVIDED ACROSS THE PARCEL WITH A NATURAL RIDGE GENERALLY DIVIDING THE RUN-OFF. EXISTING LAND USE TO THE EAST OF THE SITE IS RESIDENTIAL AND WILL NOT BE DIRECTLY AFFECTED BY THE DESIGNED RUNOFF. OFFSITE ACTIVITIES, SUCH AS THE WIDENING OF LAUREL SPRING ROAD, CAUSING MINOR EROSION WILL BE ROUTED TO ON-SITE PONDS.

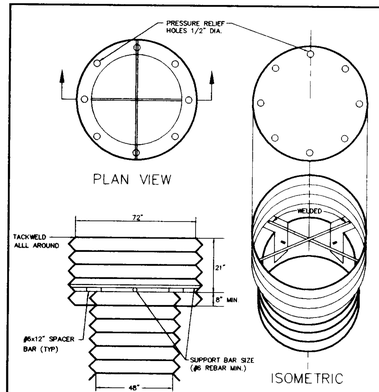
EROSION CONTROL MEASURES WILL BE TAKEN AT EACH STEP OF THE CONSTRUCTION SEQUENCE INCLUDING INLET PROTECTION, CULVERT INLET PROTECTION, AND SILT FENCING. A BOUNDARY OF SILT FENCE WILL BE CONSTRUCTED ALONG THE APPROXIMATE 100-YEAR BACKWATER ELEVATION AT THE BACK PORTION OF THE WESTERN LOTS. THESE PARTICULAR LOTS WILL BE CREATING LESS THAN 10% IMPERVIOUSNESS ON EACH LOT. SOILS TYPES IN THIS AREA HAVE A SLIGHT TO MODERATE EROSION HAZARD WITH ACKWATER AND LYNCHBURG SOILS PRESENT IN THIS SECTION.

EROSION CONTROL SEQUENCE OF CONSTRUCTION

1. NOTIFY THE INSPECTOR WITH JAMES RIVER SOIL AND WATER CONSERVATION DISTRICT AT 748-2235 OR 733-2788 FOR A PRECONSTRUCTION MEETING AND ON-SITE VISIT ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
2. INSTALL CONSTRUCTION ENTRANCE, AND SILT FENCE AS PER PLAN.
3. CLEAR AND GRUB ON SITE FOR BASINS.
4. BEGIN CONSTRUCTION OF SEDIMENT BASIN AND STRUCTURE #8.
5. A METAL STAKE, PAINTED ORANGE TO TOP OF THE CLEANOUT ELEVATION, SHALL SERVE AS A CLEANOUT BENCHMARK AND SHALL BE INSTALLED IN EACH OF THE BASINS.
6. CLEAR ROAD, EASEMENTS AND FILL AREAS AFTER BASINS HAVE BEEN CONSTRUCTED AND OUTLET IS OPERATIONAL.
7. BEGIN ROUGH GRADING OF ROADS.
8. INSTALL STORM SEWER AND SWALES
9. INSTALL INLET PROTECTION ON ALL "DROP" INLETS.
10. INSTALL UTILITIES AS PER PLAN.
11. INSTALL CURB AND GUTTER AS PER PLAN.
12. SEED & MULCH W/ BRUSH CURB & GUTTER AS SOON AS POSSIBLE AFTER INSTALLATION OF CURB & GUTTER.
13. FINE GRADE ROADS.
14. PLACEMENT OF BASE STONE SHALL OCCUR AS SOON AS SUB-GRADE IS REACHED TO MINIMIZE SEDIMENT CONVEYANCE, AND WILL HELP WITH CONSTRUCTION ACCESS AND DUST CONTROL
15. REMOVE OUTLET STRUCTURE OF SEDIMENT BASIN AND INSTALL PERMANENT CONCRETE WEIR. RESHAPE TO PROPOSED GRADES WHILE REMOVING ANY SEDIMENT.
16. SEED DISTURBED AREAS AS SOON AS POSSIBLE AND MULCH ALL DISTURBED AREAS.
17. PLACE PAVEMENT AS SHOWN ON PLANS.
18. CONTINUING MAINTENANCE PRACTICES SHALL BE PERFORMED TO ENSURE PROTECTION OF DOWNSTREAM PROPERTIES.
19. NO EROSION CONTROL DEVICE SHALL BE REMOVED UNTIL AN ADEQUATE STAND OF GRASS HAS BEEN OBTAINED.
20. AN AS-BUILT SURVEY WILL BE PERFORMED FOR FINAL GRADES WITHIN THE BASINS TO VERIFY STORAGE FOR POST-DEVELOPMENT STORM WATER MANAGEMENT.

NOTE:

ALL EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLAN ARE TO BE CONSTRUCTED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH THE THE CURRENT EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.



TOP IS 14 GAGE CORRUGATED METAL OR 1/8" STEEL PLATE. PRESSURE RELIEF HOLES MAY BE OMITTED, IF ENDS OF CORRUGATIONS ARE LEFT FULLY OPEN WHEN THE TOP IS ATTACHED.

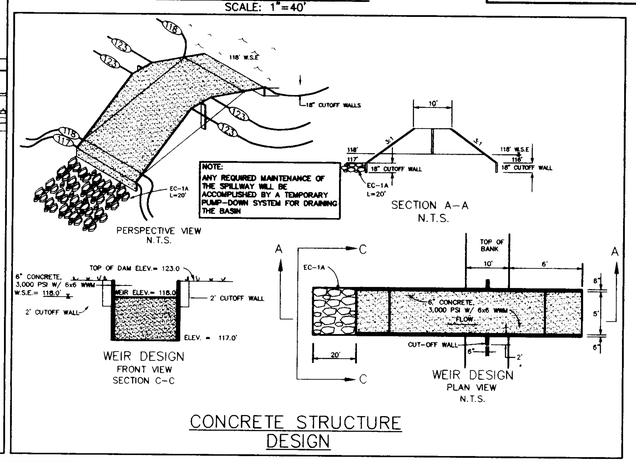
CYLINDER IS 16 GAGE CORRUGATED METAL PIPE OR FABRICATED FROM 1/8" STEEL PLATE.

NOTES:

1. THE CYLINDER MUST BE FIRMLY FASTENED TO THE TOP OF THE RISER.
2. SUPPORT BARS ARE WELDED TO THE TOP OF THE RISER OR ATTACHED BY STRAPS BOLTED TO THE TOP OF RISER.

ANTI-VORTEX DEVICE DESIGN

N.T.S.



CONCRETE STRUCTURE DESIGN

MAINTENANCE OF TRAFFIC AND SEQUENCE OF CONSTRUCTION – STATE ROUTE 616

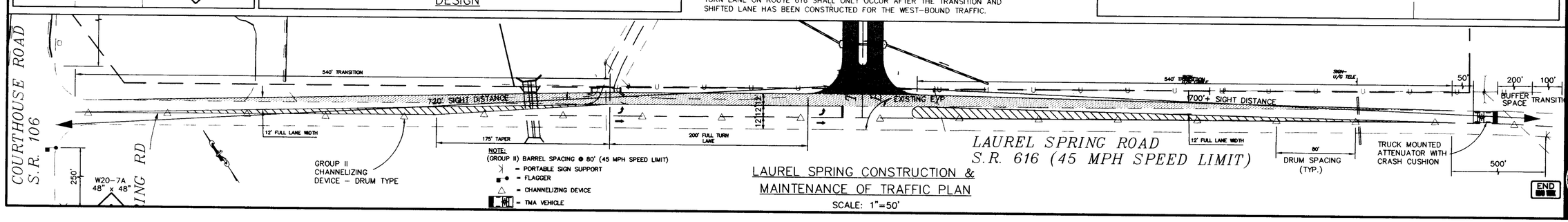
THE CONTRACTOR SHALL PERFORM NECESSARY PAVEMENT REPLACEMENT, CONSTRUCTION AND OVERLAY IN THE RIGHT OF WAY AS DIRECTED ON SHEETS 3 & 8 AT THE ROUTE 616 ENTRANCE INTO THE SITE. THE WORK AREA SHALL BE ESTABLISHED IN ACCORDANCE WITH FIGURE TTC-14.1 OF THE 1996 VDOT VIRGINIA WORK AREA PROTECTION MANUAL. IT IS RECOMMENDED WITH THE TRAFFIC VOLUMES THAT GROUP 2 CHANNELIZING DEVICES BE USED INSTEAD OF GROUP 1. LANE CLOSURE SHALL NOT TAKE PLACE PRIOR TO 9:00 A.M. AND NOT AFTER 3:00 P.M.

M.O.T. SIGNING SHALL BE IN ACCORDANCE WITH TTC-201.

M.O.T. SIGNING AND TRANSITION GROUP 1 PLACEMENT SHALL REMAIN AS SHOWN UNLESS CONDITIONS DICTATE OTHERWISE.

M.O.T. SIGNING (W4-2, W9-2, VR-9, W20-5, W21-4) IS TO BE IN ACCORDANCE WITH TTC-14.1. PLACEMENT SPACING TO BE COORDINATED AT SITE BUT SHOULD ALSO CONSIDER ACCESS TO ROUTE 616 BY ROADS THAT INTERSECT EAST- AND WEST-BOUND LANES ON EACH SIDE WITHIN THE REQUIRED SIGNING.

LANE CLOSURE FOR WEST BOUND STATE ROUTE 616 SHALL OCCUR DURING THE CONSTRUCTION OF THE TRANSITION LANE. CONSTRUCTION OF THE TURN LANE ON ROUTE 616 SHALL ONLY OCCUR AFTER THE TRANSITION AND SHIFTED LANE HAS BEEN CONSTRUCTED FOR THE WEST-BOUND TRAFFIC.



LAUREL SPRING CONSTRUCTION & MAINTENANCE OF TRAFFIC PLAN

SCALE: 1"=50'

THIS DRAWING PREPARED AT THE PRINCE GEORGE COUNTY OFFICE

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DERRICK A. JOHNSON
No. 24761
4-11-00
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DATE	REVISION DESCRIPTION
3-2-00	COUNTY COMMENTS
4-11-00	DEPT. OF CONSERVATION AND RECREATION

DATE 1-14-00

DRAWN BY S. BROOKS

DESIGNED BY D. JOHNSON

CHECKED BY D. JOHNSON

SCALE 1"=50'

TINSLEY CHARTER – SECTION ONE

BLAND DISTRICT • PRINCE GEORGE COUNTY • VIRGINIA

EROSION CONTROL NOTES, DETAILS & SIGHT DISTANCE, M.O.T. PLAN

FINAL

JOB NO. 18902

SHEET NO. 8

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K:\DRAWTIMS02-1\TinsleyCharter\TNSLY-8.dwg Tue Apr 11 12:53:48 2000 SRB, TRI-CITIES OFFICE