

Contractor shall pay particular attention to the following MINIMUM STANDARDS:

MS-1: Though TS / PS labels are shown generally on the plans, the contractor shall seed all areas not indicated to be otherwise stabilized with permanent seed mixture within 30 days of reaching final grade or with temporary seed mixture any area yet to reach final grade but that is not proposed to be actively involved in the work within 30 days.

MS-2: The contractor shall stabilize with TS and protect from erosion, with any applicable method, all stockpiles and any on-site or off-site borrow or spoil areas, as applicable. Approval of this plan does not cover off-site borrow or spoil areas. 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 for review and approval by the Plan Approving Authority.

MS-3: Where TS/PS are not applicable provide other means of stabilization (CRS, etc.) within 7 days of reaching final grade or within 30 days where the area is yet to reach final grade but is not proposed to be actively involved in the work.

MS-4: All soil erosion and sediment control measures shall be placed in advance of the work they are intended to protect.

MS-5: Erosion controls and structures shall be stabilized immediately upon installation.

MS-6: Where a sediment trap (<3 acres of drainage) or sediment basin (>3 acres of drainage) are indicated calculations shown are based on outlined drainage area. Contractor shall honor indicated drainage divides and conform to volumes, details, etc. provided on plans.

Where applicable, show drainage areas and calculations on plans.

MS-7: Care has been taken in design to minimize drainage over slopes and provide a suitable protective stabilization method. Contractor shall protect slope areas during and after construction from concentrated runoff and the erosion effects of wind and rain. Stabilize as soon as practical to minimize erosion.

MS-8: Where concentrated runoff has been routed down slopes care has been taken to design an adequate channel or drain. Contractor shall install these measures along with their stabilization as soon as practical to protect slopes.

NOT APPLICABLE; no channels or drains are proposed over slopes.

MS-9: NOT APPLICABLE; seepage through slopes is not anticipated to be encountered on this project.

MS-10: Inlet or culvert inlet protection is proposed for the inlets of all storm sewers or culverts on-site. RLD shall insure proper installation and assure adequate flow based on drainage area of each inlet.

MS-11: RLD shall verify that adequate channel linings and proper outlet protection is in place prior to operation of storm sewer system.

NOT APPLICABLE; no channels or outlet protection is proposed.

MS-12: When working in and around a live watercourse, the contractor shall take great care to minimize impact on the stream. Assure that proper permits from DEQ / OCE are in hand prior to commencing such work.

Live watercourse protection and permits are NOT APPLICABLE; no live watercourses exist within or adjacent to this project.

MS-13: Where more than 2 trips in 6 months are expected across a live watercourse obtain the necessary permit and install a temporary stream crossing.

Stream crossing is NOT APPLICABLE; no live watercourses exist within or adjacent to this project.

MS-14: Other federal, state, and local regulations must be met when working in live watercourses.

Regulations pertaining to live watercourses are NOT APPLICABLE; no live watercourses exist within or adjacent to this project.

MS-15: The bed and banks of disturbed watercourses must be stabilized immediately.

Live watercourse bed and bank stabilization are NOT APPLICABLE; no live watercourses exist within or adjacent to this project.

MS-16: Regarding utility installations, no more than 500 LF of trench may be open at a given time. Excavated material shall be placed on uphill side of trench. Effluent of any dewatering system used must be filtered. Trenches shall be proper backfilled and compacted per detail and specs. Completed installation shall be re-stabilized immediately.

MS-17: The contractor shall provide adequate means of cleaning mud from trucks and / or other equipment prior to entering public streets. It is the contractor's responsibility to insure that the streets are in a clean, mud and dust free condition at all times.

MS-18: See Maintenance under ESC Narrative for removal of temporary measure.

Include in maintenance schedule that RLD shall observe off-site receiving channel regularly and correct any problems (even downstream).

MS-19: Increases in stormwater volume, velocity, and peak runoff have been addressed in the plan per calculations previously submitted for review. Responsible Land Disturber shall pay particular attention to off-site areas contributing runoff to the site and off-site locations receiving runoff from this project. 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 DOT's MS-19. If erosion or scour is occurring the developer shall be responsible for all corrective measures.

Table with 3 columns: NO., TITLE, KEY SYMBOL. Lists various erosion control measures like SAFETY FENCE, ROCK CHECK DAMS, VEGETATIVE STREAMBANK STABILIZATION, etc.

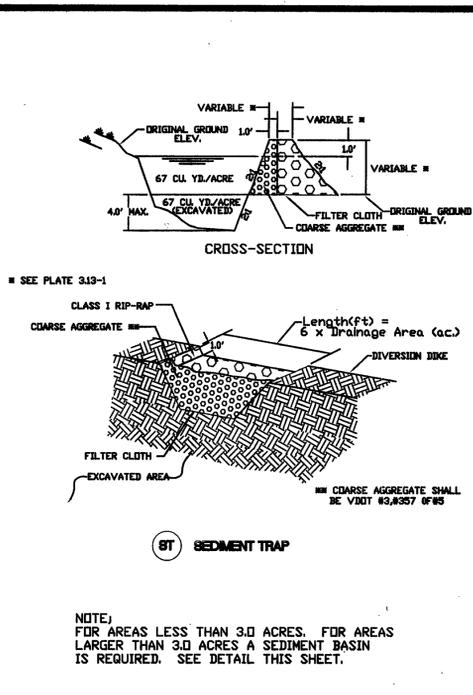


Table titled 'TEMPORARY SEDIMENT TRAP DATA' with columns for STRUCTURE, DRAINAGE AREA, STORAGE, VEIR LENGTH, VEIR HEIGHT, and BERM HEIGHT.

EROSION-SILTATION CONTROL COST ESTIMATE

Table with 5 columns: DESCRIPTION, UNIT, QUANTITY, UNIT COST, TOTAL COST. Lists items like CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION, etc.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS PRACTICAL.
4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN PROVIDED.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. THESE SYMBOLS AND KEYS ARE TO BE UTILIZED ON ALL EROSION CONTROL PLANS SUBMITTED TO ROANOKE COUNTY.

TS TEMPORARY SEEDING MIXTURE

Table with 3 columns: PLANTING DATES, SPECIES, RATE (LBS./ACRE). Lists species like RYEGRASS and CEREAL RYE.

PS PERMANENT SEEDING MIXTURE

Table with 2 columns: TYPE A and TYPE B (SLOPES 3:1 OR STEEPER). Lists seeding rates for various dates and species.

TOTAL DISTURBED AREA = 3.4 AC.

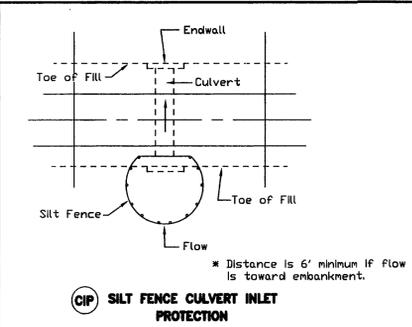
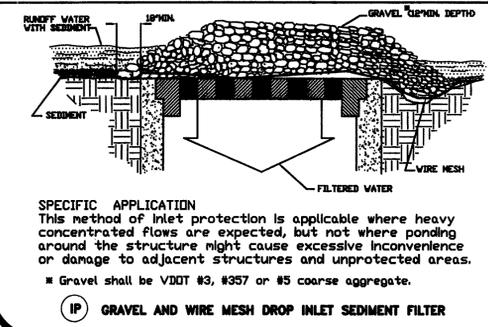
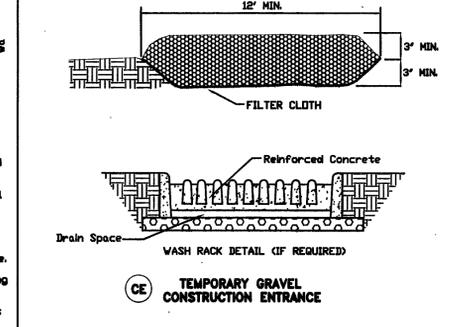
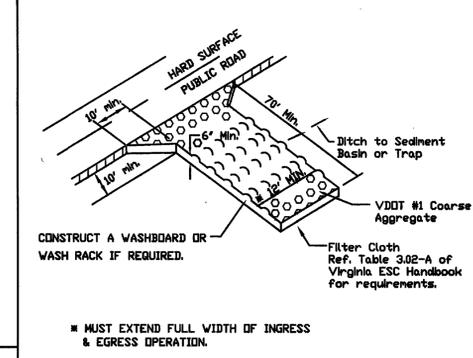
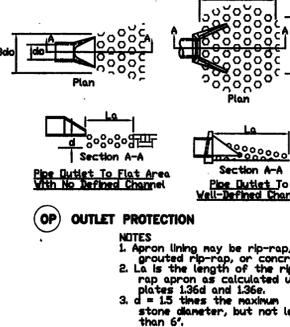
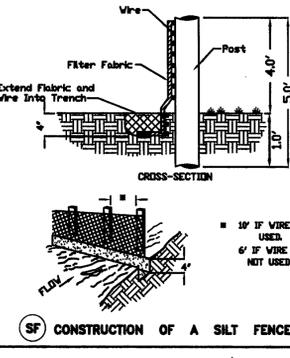
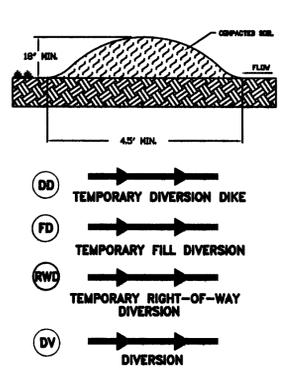
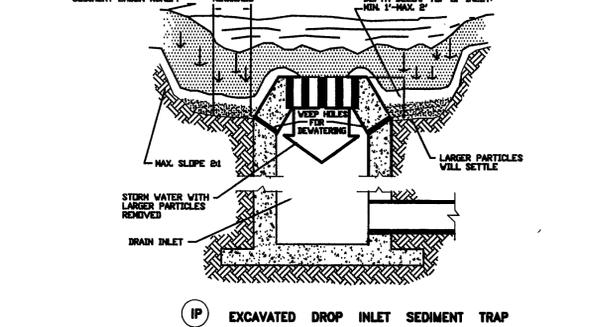
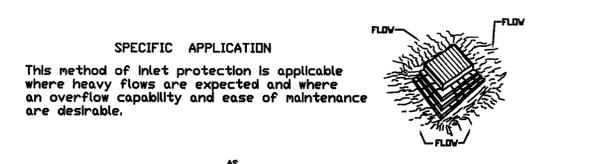
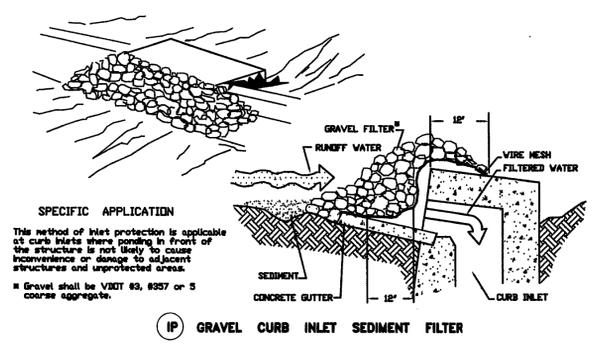
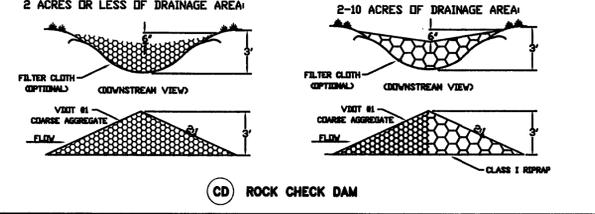


Table with 3 columns: NO., REVISIONS, DATE. Lists revision history.