

SOIL EROSION AND SEDIMENT CONTROL PLAN NARRATIVE OUTLINE

A. SEQUENCE OF CONSTRUCTION OPERATIONS

B. CONSTRUCTION SCHEDULE

C. SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS

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A. SEQUENCE OF CONSTRUCTION OPERATIONS

1. Install crushed stone tire cleaner and silt fence.
2. Clear along pipe alignment
3. Install sewer pipes and manholes
4. Backfill sewer pipes and grade the alignment
5. Permanent seed and mulch the disturbed area
6. Remove temporary erosion and sediment controls.

B. CONSTRUCTION SCHEDULE

1. Mobilize
2. Perform Operation A.1
3. Perform Operations A.2 & A.3
4. Perform Operations A.4 & A.5
5. Perform Operation A.6

C. SOIL EROSION AND SEDIMENT CONTROL REQUIREMENTS

1. The District shall be represented at the project pre-construction meeting with the township engineer, contractors, and utility representatives. If the township engineer does not schedule a pre-construction meeting, it is responsibility of the owner/applicant to schedule one prior to any land disturbance.
2. During land disturbance activities and during construction, any additional control measures as deemed necessary to prevent erosion and control of sediment beyond those shown on the approved plans shall be installed as directed by the township engineer or an employee of the Salem Soil Conservation District.
3. To the maximum extent practical, all vegetated areas not needed for construction shall be left undisturbed for as long as possible.
4. Final stabilization of all land disturbances associated with underground utilities, irrespective of phasing, is the ultimate responsibility of the owner.
5. Dust to be controlled with water, calcium chloride or other method approved by the Soil Conservation District.
6. A letter of explanation shall accompany all revisions.
7. The owner/applicant will obtain the District Issued Report of Compliance prior to any occupancy. The District requires at least one week's notice before issuance.
8. The applicant is required to have a copy of the certified plan at the construction site.
9. All applicable erosion and sediment control practices shall be in place prior to any grading operation and/or installation of proposed structures or utilities.
10. Soil erosion and sediment control practices on the plan shall be constructed in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey.
11. All applicable erosion and sediment control practices shall be left in place until construction is completed and/or the area is stabilized.
12. Any disturbed area that will be left exposed for more than thirty (30) days and not subject to construction traffic shall immediately receive a temporary seeding and fertilization in accordance with New Jersey Standards. If the season prohibits temporary seeding, the disturbed areas will be mulched with salt hay or equivalent and anchored in accordance with New Jersey Standards (i.e. peg and twine, mulch netting or liquid mulch binder).
13. All critical areas subject to erosion will receive a temporary seeding in combination with straw mulch at a rate of 2 tons per acre, according to the New Jersey Standards immediately following rough grading.
14. The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
15. All sedimentation structures will be inspected and maintained on a regular basis and after every storm event.
16. Soil stockpiles are not to be located within fifty (50) feet of the floodplain, slope, roadway or drainage facility. The base of all stockpiles should be protected by a hay bale barrier or sediment fence. Proposed locations must be delineated on the plan.
17. A crushed stone, tire-cleaning pad will be installed wherever a construction entrance exists. The rip-rap pad must be 100 feet in length; the stone must be 1.5 - 4" in size, placed 12" thick and the full width of the entranceway. It should be underlain with a suitable synthetic filter fabric and maintained.
18. Paved roadways must be kept clean at all times.
19. All catch basin inlets will be protected during construction.
20. All dewatering operations must discharge directly into sediment filtration device. The sediment filter must be capable of filtering the sediment and placed so as not to cause erosion of the downstream area.
21. The Salem County Soil Conservation District shall be notified, in writing, 48 hours prior to any land disturbance.
22. Soil having a pH of 4.0 or less or containing iron sulphide must be covered with a minimum of 12 inches of soil having a pH of 5.0 or more before the seedbed preparation.
23. It shall be the responsibility of the government to provide confirmation of time, fertilizer, seed application and rates of application at the request of the Salem County Soil Conservation District.
24. N.J.S.A. 4:24-39, et seq., requires that upon permanent site stabilization and completion of construction the contractor shall apply to the Soil Conservation District for a final compliance inspection to check that all the provisions of the certified soil erosion and sediment control plan have been complied with for permanent measures.

25. Mulching is required on all seeded areas to insure against erosion before grass is established to promote earlier vegetation cover.
26. Offsite sediment disturbance may require additional control measures to be determined by the erosion control inspector.
27. Maximum side slopes of all exposed surfaces shall not be constructed steeper than 3:1 unless otherwise approved by the District.
28. Daily inspection shall be made by the contractor to determine the effectiveness of erosion and sediment control measures. Any necessary repairs, relocation, or modifications shall be performed without delay.
29. Permanent vegetation to be seeded or sodded on all exposed areas within ten (10) days after final grading. Mulch to be used as necessary for protection until seeding is established.
30. Any conveyance of this project to its completion will transfer full responsibility for compliance with the certified plan to any subsequent owners.

D. TEMPORARY SEEDING REQUIREMENTS

1. Seedbed preparation
  - a. Apply ground limestone (equivalent to 50 percent (50%) calcium plus magnesium oxides) at a rate of 90 lbs. per 1000 sq. ft. Fertilizer shall be at a rate of 14 lbs. per 1000 sq. ft. using 10-20-10 or equal.
  - b. Lime and fertilizer shall be worked into the soil as nearly as practical to a depth of 4 inches with a disc, springtooth harrow or other suitable equipment. The final harrowing or discing operation shall be on the general contour. Tillage shall be continued until a reasonably uniform seedbed is prepared.
  - c. Seedbed shall be inspected just before seeding. If traffic has left the soil compact, the area shall be retilled as above.
2. Seeding
  - a. Annual rye grass will be applied at a rate of 1.0 pound per 1000 sq. ft.
  - b. Seed shall be applied with mechanical seeder. Optimum seeding depth is one-half inch.
  - c. Where feasible, except where either a cultipacker type seeder or hydroseeder is used, the seedbed will be firmed following seeding operations with a roller or light drag. Seeding operations will be on the contour.
3. Mulching
  - a. Mulch materials will be unratted salt hay or small grain straw. Mulch shall be applied at a rate of 80 lbs. per 1000 sq. ft. Mulch shall not be ground or chopped into short pieces. Spreading will be done uniformly by hand or mechanically so that approximately 75 percent to 95 percent of the soil surface shall be covered.
  - b. Mulch anchoring shall be accomplished immediately after placement to minimize loss by wind or water. Mulch shall be secured by approved methods (i.e. peg and twine, mulch netting or liquid mulch binder).

E. PERMANENT SEEDING REQUIREMENTS

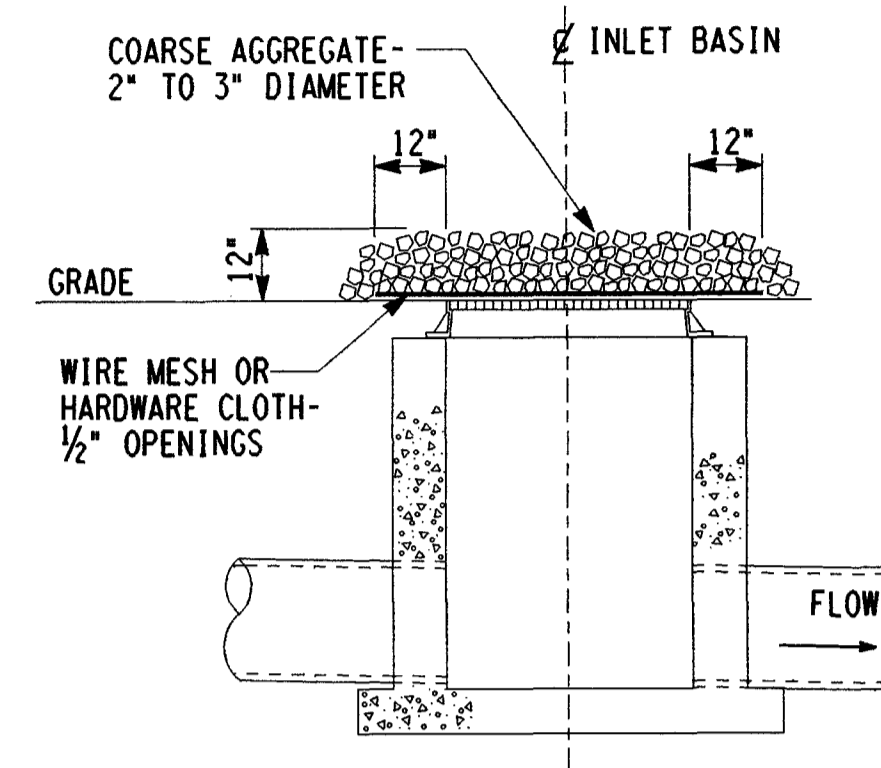
1. Seedbed preparation
  - a. Apply pulverized domestic limestone at a rate of 90 lbs. per 1000 sq. ft. Fertilizer shall be applied at a rate of 14 lbs. per 1,000 sq. ft. using 10-20-10 or equivalent.
  - b. Lime and fertilizer shall be worked into soil as neatly as practical to a depth of 4 inches with a disc, springtooth harrow or other suitable equipment. The final harrowing or discing operation shall be on the general contour. Tillage shall be continued until reasonably uniform, fine seedbed is prepared. All but clay or silty soil and coarse sands shall be rolled to firm the seedbed wherever feasible.
  - c. All stones two inches or larger in any dimension shall be removed from the surface. Remove all other debris, such as wire, cable, tree roots, pieces of concrete, clods, lumps or other unsuitable material.
  - d. Seedbed shall be inspected just before seeding. If traffic has left soil compact, the area shall be retilled and firmed as above.
2. SEEDING
  - a. Seeding dates for permanent seeding are: 2/15-5/1 & 8/15-10/15
  - b. Seeding shall be done by sowing the following seed mixtures

LOCATIONS	SEED MIXTURES	SEED RATE LBS./1,000 SQ. FT.
All disturbed areas	Tall fescue Sericea lespedeza	0.6 0.4

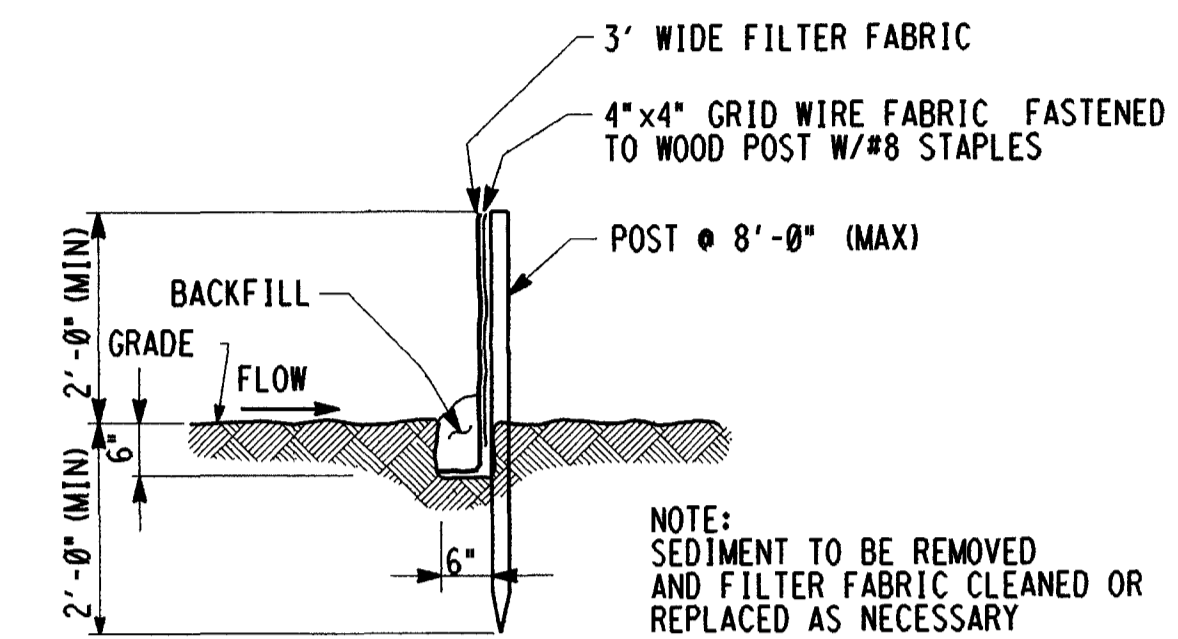
Any variation in seed mixture shall be approved by the Salem County Soil Conservation District.

3. SEEDING
  - a. Seed shall be applied with mechanical seeder. Normal seeding depth is from 1/4 to 1/2 inch.
  - b. Where feasible, except where either a cultipacker type seeder or hydroseeder is used, the seedbed shall be firmed following seeding operations with a corrugated roller. Seeding operations shall be on the contour.
3. MULCHING
  - a. Mulching material shall be salt hay or small grain straw applied at a rate of 70 to 90 lbs./1000 sq. ft. To be applied according to the New Jersey Standards. Mulch shall be secured by approved methods (i.e. peg and twine, mulch netting or liquid mulch binder).
  - b. Spreading shall be done uniformly by hand or mechanically so that approximately 75% of the soil surface shall be covered.
  - c. Mulch anchoring shall be accomplished immediately after placement to minimize loss by wind or water.

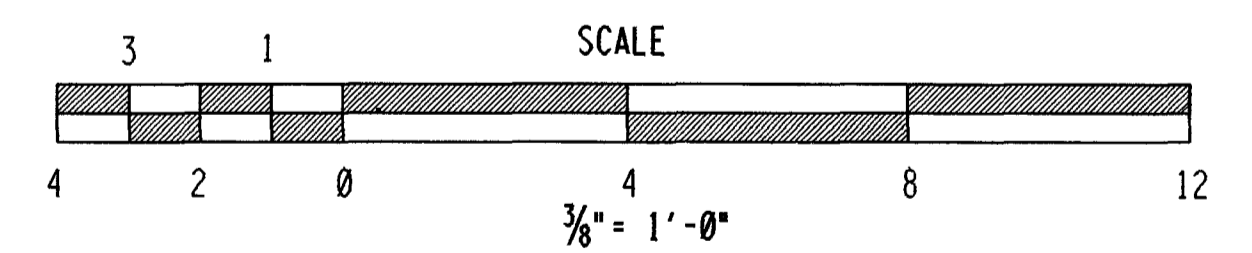
NOTE:  
IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE INLET, CLEANED AND REPLACED.



INLET PROTECTION DETAIL  
N.T.S.



SILT FENCE DETAIL  
N.T.S.



NJ013\_0123

SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
<b>FOSTER WHEELER USA CORPORATION</b> <small>PERRYVILLE CORPORATE PARK, CLINTON, N.J.</small>		<b>UNITED STATES ARMY GARRISON FORT DIX</b> <b>DIRECTORATE OF PUBLIC WORKS</b> <small>FORT DIX, NEW JERSEY 08640</small>	
DRAWN: WRL DESIGNED: JUG CHECKED: JCM FP&P DIV ENV DIV O & M DIV	USING AGENCY: DOIM	<b>NEW WASTEWATER LIFT STATION AND FORCED MAIN</b> <b>SIEVERS-SANDBERG US ARMY RESERVE CENTER</b> <b>PEDRICKTOWN, NEW JERSEY</b>	
RECOMMENDED: CHIEF ENGINEERING PLANS & SERVICES		SCALE: AS NOTED DATE: OCT. 25, 1996	DRAWING NUMBER: C-7
APPROVED: REGIONAL DIRECTORATE OF PUBLIC WORKS		PR. NR: GM-00036-5P	SHEET 16 OF 18

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