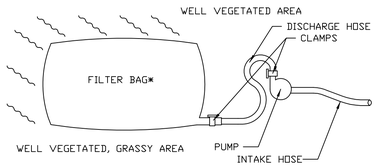
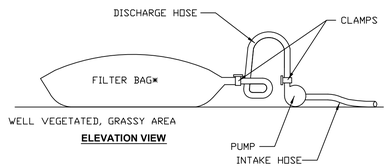
STANDARD CONSTRUCTION DETAIL #26
Pumped Water Filter Bag

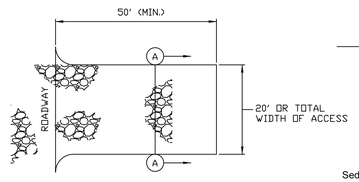


PLAN VIEW

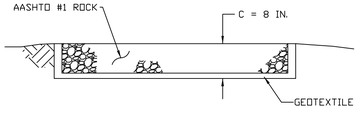


ELEVATION VIEW

STANDARD CONSTRUCTION DETAIL #16
Rock Construction Entrance



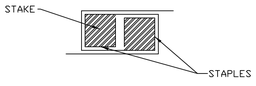
PLAN VIEW



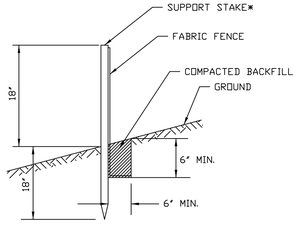
SECTION A-A

MAINTENANCE: Rock Construction Entrance thickness shall be constantly maintained to the specified dimensions by adding rock. A stockpile shall be maintained on site for this purpose. At the end of each construction day, all sediment deposited on paved roadways shall be removed and returned to the construction site.

STANDARD CONSTRUCTION DETAIL #19
Standard Filter Fabric Fence (18" High)



JOINING FENCE SECTIONS



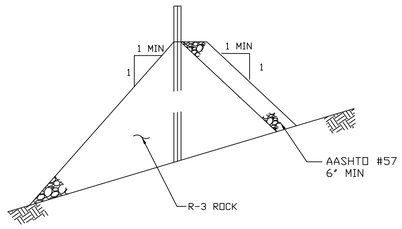
* Stakes spaced @ 8' maximum. Use 2" x 2" wood or equivalent steel stakes.

Filter Fabric Fence must be placed at level existing grade. Both ends of the barrier must be extended at least 8 feet up slope at 45 degrees to the main barrier alignment.

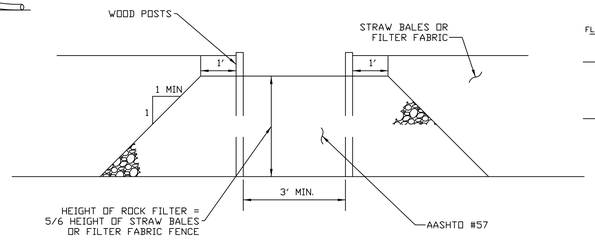
Sediment must be removed when accumulations reach 1/2 the above ground height of the fence.

Any section of Filter Fabric Fence which has been undermined or topped must be immediately replaced with a Rock Filter Outlet. See Standard Construction Detail #18.

STANDARD CONSTRUCTION DETAIL #18
Rock Filter Outlets



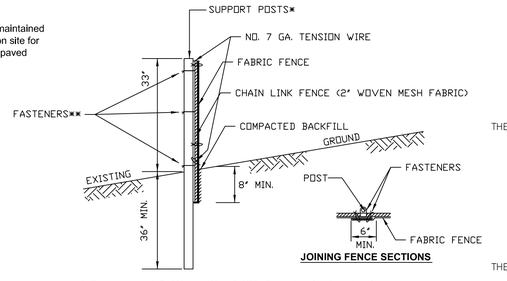
OUTLET CROSS-SECTION



UP-SLOPE FACE

Sediment must be removed when accumulations reach 1/3 the height of the outlet.

STANDARD CONSTRUCTION DETAIL #22
Super Filter Fabric Fence



JOINING FENCE SECTIONS

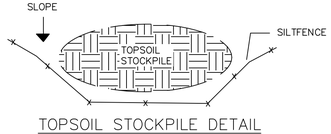
*** Posts spaced @ 10' max. Use 2 1/2" dia. galvanized or aluminum posts.**

**** Chain Link to Post Fasteners spaced @ 14" max. Use No. 6 Ga. aluminum wire or No. 9 galvanized steel pre-formed clips. Chain Link to Tension Wire Fasteners spaced @ 60" max. Use No. 10 Ga. galvanized steel wire. Fabric to Chain Fasteners spaced @ 24" max. C to C.**

No. 7 Ga. Tension Wire installed horizontally at top and bottom of chain-link fence.

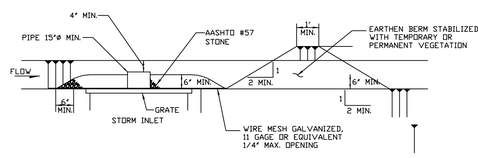
Filter Fabric Fence must be placed at existing level grade. Both ends of the barrier must be extended at least 8 feet upslope at 45 degrees to the main barrier alignment.

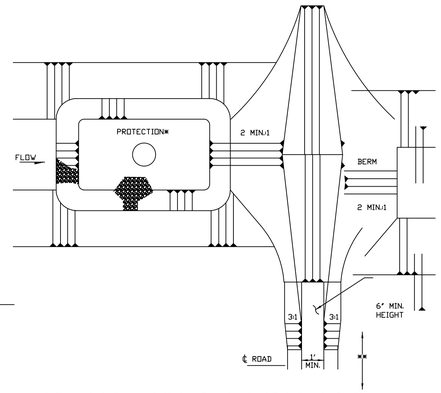
Sediment must be removed when accumulations reach 1/2 the above ground height of the fence.



TOPSOIL STOCKPILE DETAIL
NO SCALE

STANDARD CONSTRUCTION DETAIL #31
Channel or Roadside Swale
Storm Inlet Protection and Berm(s)



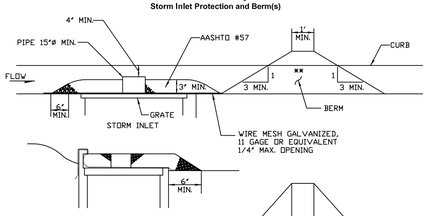


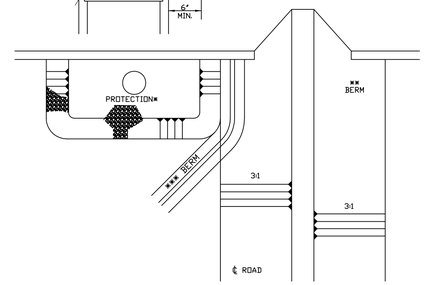
* Stone protection is not required for inlet tributary to sedimentation basins and sediment traps. Berms are required for all installations.

** Earthen berm in roadway shall be maintained until roadway is stoned. Road subbase berm on roadway shall be maintained until roadway is paved. Earthen berm in channel shall be maintained untill permanent stabilization is completed or to remain permanently.

One acre maximum drainage area with 15" overflow pipe and 4" head.

STANDARD CONSTRUCTION DETAIL #32
Curbed Roadway
Storm Inlet Protection and Berm(s)



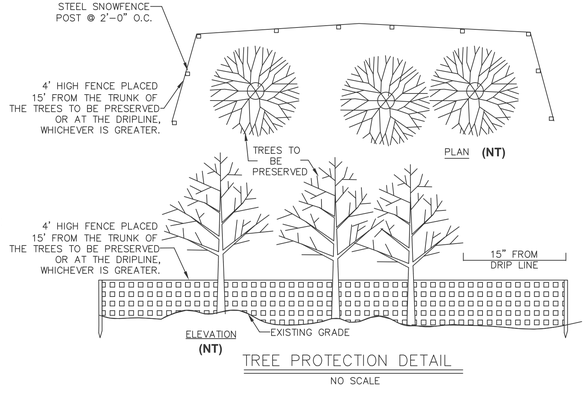


* Stone protection is not required for inlet tributary to sedimentation basin or trap. Berms are required for all installations.

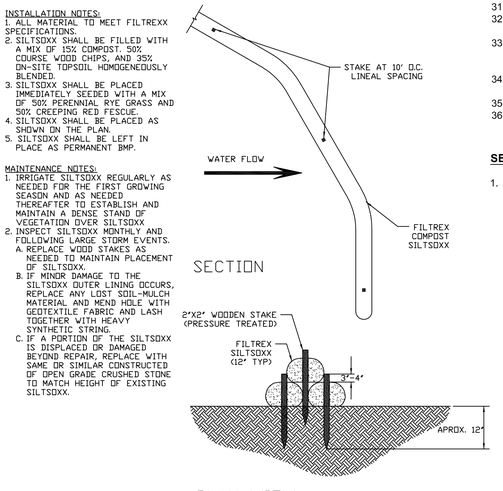
** Earthen berm shall be maintained until roadway is stoned. Road subbase berm shall be maintained until roadway is paved.

*** Six inch minimum height asphalt berm shall be maintained until roadway surface receives final coat.

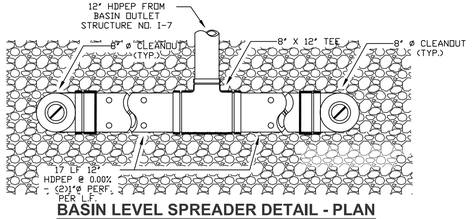
One acre maximum drainage area with 15" overflow pipe and 4" head.



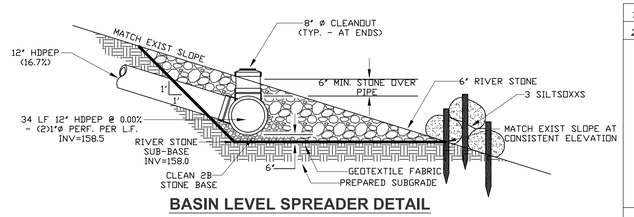
TREE PROTECTION DETAIL
NO SCALE



SILTSOXX DETAILS
NOT TO SCALE



BASIN LEVEL SPREADER DETAIL - PLAN
NOT TO SCALE



BASIN LEVEL SPREADER DETAIL
NOT TO SCALE

PARKING LOT IMPROVEMENTS CONSTRUCTION SEQUENCE:

STAGE 1 (WEEK 1)
1. INSTALL TREE PROTECTION FENCE, SUPER SILT FENCE, SILT FENCE AND OTHER SUPPORTING E&S CONTROLS.
2. ALL PARKING AREAS TO REMAIN OPEN DURING THIS STAGE.
3. CLEAR AND GRUB WORK AREAS

STAGE 2 (WEEK 2 & 3)
4. CONSTRUCT LEVEL SPREADER AND UPON COMPLETION INSTALL SILT SOXX.
5. CONSTRUCT UNDERGROUND STORAGE FACILITY, STORM SEWER STRUCTURES ALONG WITH ALL CONNECTING PIPE AND BACKFILL.
6. PROVIDE TEMPORARY 2A MODIFIED STONE BACKFILL IN PLACE OF PAVING OVER STORAGE FACILITY AND PIPES WITHIN THE PARKING AREAS TO ALLOW PARKING TO BE OPEN AS MUCH AS POSSIBLE WITH THE EXCEPTION OF THE 10 SPACES OVER THE STORAGE FACILITY.
7. INSTALL INLET PROTECTION AS REQUIRED.
8. ALL EQUIPMENT AND MATERIAL IS TO BE STORED IN UPPER PARKING AREA DURING THIS STAGE.

STAGE 3 (WEEK 4 & 5)
9. INSTALL TIRE CLEANER FROM STA. 9+40 TO STA. 9+90.
10. CLOSE OFF UPPER PARKING AREA AND DRIVEWAYS FROM STA. 6+75 TO 9+90.
11. STRIP TOPSOIL FROM AREAS OF EXCAVATION IN THE UPPER PARKING LOT AND DRIVEWAYS LEADING TO THIS AREA; PLACE IN DESIGNATED STOCKPILE AREAS AND STABILIZE IMMEDIATELY
12. CONSTRUCT THE RETAINING WALLS, STEPS, GUIDE RAIL, AND STONE TRENCH DRAINS TO I-1 AND I-2 IN THE LOCATIONS SHOWN ON THE PLAN AND PER THE PLAN DETAILS AND MANUFACTURER'S RECOMMENDATIONS.
13. COMPLETE GRADING OF UPPER PARKING AREA AND REMOVE EXISTING GRAVEL FROM INSTALL CONDUIT AND LIGHT POLES IN UPPER PARKING AREA
14. LAWN AREAS OUTSIDE THE PROPOSED PARKING AREA.
15. INSTALL TURF PAVERS (OPTIONAL) AND PAVING UP TO TOP OF BCBC
16. PERMANENTLY STABILIZE ALL LAWN AREAS AROUND THE UPPER PARKING LOT BY TOPSOILING, SEEDING, AND MULCHING
17. INSTALL SILT FENCE AT BASE OF SLOPE ABOVE UPPER PARKING AREA.
18. REMOVE TIRE CLEANER & TEMPORARILY BACKFILL WITH 2A MODIFIED STONE.

STAGE 4 (WEEK 6 & 7)
19. DIVERT TRAFFIC TO UPPER PARKING LOT AND CLOSE LOWER LOT TO TRAFFIC.
20. INSTALL STAGE 4 TIRE CLEANER.
21. STRIP TOPSOIL FROM AREAS OF EXCAVATION IN THE LOWER PARKING LOT AND PLACE IN DESIGNATED STOCKPILE AREAS AND STABILIZE IMMEDIATELY.
22. CONSTRUCT ANY REMAINING RETAINING WALLS, STEPS, CONDUIT AND LIGHT POLES IN LOWER PARKING AREA PER THE PLAN DETAILS AND MANUFACTURER'S RECOMMENDATIONS.
23. REMOVE EXISTING SHED AND GRAVEL AREA ADJACENT TO BUILDING
24. GRADE LOWER PARKING LOT TO ELEVATIONS SHOWN ON THE PLAN AND REMOVE EXISTING GRAVEL FROM LAWN AREAS OUTSIDE THE PROPOSED PARKING AREA.
25. CONSTRUCT LOT CURBING REMOVE TIRE CLEANERS AND INSTALL PAVING UP TO TOP OF BCBC.
26. CONSTRUCT WALKWAYS AND HANDICAP RAMPS AS SHOWN ON THE PLANS.
27. PERMANENTLY STABILIZE ALL LAWN AREAS AROUND THE LOWER PARKING LOT BY TOPSOILING, SEEDING, AND MULCHING (IMMEDIATELY)

STAGE 5 (WEEK 8 & 9)
28. STAGE EQUIPMENT IN GRAVEL AREA BY MECHANIC STREET
29. INSTALL REMAINING PARKING LOT / DRIVEWAY CONDUIT LIGHT POSTS AND FIXTURES PER THE PLAN DETAILS AND MANUFACTURER'S RECOMMENDATIONS.
30. CONSTRUCT TRENCH DRAIN ACROSS WEST MECHANIC STREET DRIVEWAY ENTRANCE.
31. REMOVE GRAVEL FROM PARKING AREA ADJACENT TO MECHANIC STREET.
32. SPREAD REMAINING TOPSOIL, SEED, AND MULCH ALL REMAINING DISTURBED AREAS THROUGHOUT THE SITE
33. ONCE THE SITE IS STABILIZED AND WITH THE CONSERVATION DISTRICT'S APPROVAL REMOVE THE TEMPORARY E&S AND TREE PROTECTION DEVISES WITH THE EXCEPTION OF THE SILT SOXX WHICH IS TO REMAIN.
34. OVERLAY OF THE MAIN ENTRANCE AND FINAL PAVE DRIVEWAYS / PARKING LOTS TO THE LIMITS SHOWN ON THE PLAN.
35. INSTALL SIGNAGE AND PAVEMENT MARKINGS AT LOCATIONS SHOWN ON THE PLAN.
36. CLOSE OUT PROJECT.

SEEDING MIXTURE SPECIFICATIONS:

1. SITE PREPARATION AND STABILIZATION SHALL BE PREFORMED IN ACCORDANCE WITH PENN STATE UNIVERSITY'S "THE AGRONOMY GUIDE" AND PENNDOT FORM 408 SPECIFICATIONS' MOST RECANT ADDITION WITH A SEEDING RATE OF 21LBS/1,000SY

   PERMANENT SEEDING FORMULA B -
   50% KENTUCKY BLUEGRASS MIXTURE
   30% PENNLAWN RED FESCUE
   20% PERENNIAL RYEGRASS MIXTURE

   STEEP SLOPE SEEDING SPECIFICATION FORMULA W -
   70% TALL FESCUE
   20% BIRDSFOOT TREFOIL MIXTURE
   10% REDTOP

NO.	DATE	REVISION
1	12/16/09	NEW HOPE ZHB COMMENTS APPROVAL TO REMOVE TREES
2	2/26/10	GILMORE & ASSOCIATES COMMENTS

ZONING PERMIT PLAN
EROSION & SEDIMENTATION CONTROL DETAILS PLAN
LANDS OF
KEHILAT HANAHAR, TMP NO.27-10-2

NEW HOPE BOROUGH | BUCKS COUNTY

KNIGHT ENGINEERING INC.
4998 MECHANICSVILLE ROAD, P.O. BOX 247
MECHANICSVILLE, PENNSYLVANIA 18934
(215) 794-5958

SCALE	DATE	DRAWN BY	PLAN NO.	DWG. NO.
AS NOTED	6/26/2009	BMC	5302	6 OF 7