

Date Received	_____
Date Reviewed	_____
Date Adequate	_____
Reviewer	_____

EROSION CONTROL PLAN FOR PROJECTS DISTURBING LESS THAN 1 ACRE

PLEASE PRINT. Only use black or blue pen or type information. Please do not leave blank spaces. Incomplete information will cause a delay in processing and approval of paperwork. If you are unsure of specific information, please inquire before turning in this form to our office. It is not our responsibility to fill in information.

Applicant Name: _____

Mailing Address (Street) _____

City/State/Zip _____

Area Code/Phone Number _____ Email: _____

Plan Preparer Name: _____

Mailing Address (Street) _____

City/State/Zip _____

Area Code/Phone Number _____ Email: _____

Excavator/Contractor Name: _____

Mailing Address (Street) _____

City/State/Zip _____

Area Code/Phone Number _____ Email: _____

Project Name: _____

Project Description: _____

Project Municipality: _____

Have you contacted the municipality to discuss this project? Yes _____ No _____

Specific Project Location: (Attach a USGS topographic location map with the project area outlined.)

Estimated Start Date: _____ Estimated End Date: _____

Receiving Waters Name: _____

Total Amount of <u>DISTURBED</u> Area Calculation Chart:				
	Total Length	x	Average Width	= Area (Square Ft)
Access Roads/Driveways	_____	x	_____	= _____
New Structure(s) Footprint	_____	x	_____	= _____
Additional Grading Area(s)	_____	x	_____	= _____
Equipment Staging Area(s)	_____	x	_____	= _____
Topsoil Stockpile(s)	_____	x	_____	= _____
Other	_____	x	_____	= _____
Other	_____	x	_____	= _____
				TOTAL AREA (SQ.FT.) = _____
TOTAL AREA _____ SQ.FT. ÷ 43,560 = _____ Acres Disturbed				
Percentage of Disturbed area which will be made impervious _____				

Will there be any additional future phases of this project? Yes _____ No _____

Will there be any disturbance in a floodplain? Yes _____ No _____

Will there be any earth disturbance in or new direct stormwater discharge to a stream floodway (generally 50 feet from the top of a streambank), wetland or other waterbody? Yes _____ No _____

If so, have the necessary DEP Chapter 105 permits been obtained? Yes _____ No _____

Will the volume, rate and/or velocity of stormwater runoff from the site be increased? Yes _____ No _____

Will there be any new stormwater discharges directly to an adjacent off site property? Yes _____ No _____

If so, have the necessary easements been obtained which allow this discharge? Yes _____ No _____

Are steep slopes in excess of 10% within your project boundaries or in the immediate surrounding areas?
Yes _____ No _____

Are there any naturally occurring geologic features or soil conditions that may potentially cause pollution during earth disturbance activities? Yes _____ No _____

Please list the soil types that are found on site: _____

The implementation and maintenance of erosion and sediment control BMP's (best management practices) is required to minimize the potential for accelerated erosion and sedimentation for all earth disturbances, regardless of the disturbance area. These controls must be correctly installed prior to any earth disturbance on the site and must be properly maintained in place until the site is permanently stabilized.

TEMPORARY EROSION CONTROLS

This section details any and all temporary (and potentially permanent) erosion control practices that will be installed with your project. Place a checkmark next to each temporary control that will be used and attach specific construction details for "Other" BMP's.

- _____ Filter Fabric/Silt Fence (**see standard construction detail #1 on page 6*)
- _____ Vegetative Filter Strip (**see standard construction detail #2 on page 6*)
- _____ Rock Construction Entrance (**see standard construction detail #3 on page 7*)
- _____ Straw Bale Barrier (**see standard construction detail #4 on page 7*)
- _____ Rip Rap Apron Outlet Protection (**see standard construction detail # 5 on page 8*)
- _____ Filter Bag Inlet Protection (**see standard construction detail #6 on page 8*)
- _____ Lined and Vegetated Channel (**see standard construction detail #7 on page 9*)
- _____ Compost Filter Sock (**see standard construction detail #8 on page 10*)
- _____ Erosion Control Blanket (**see standard construction detail #9 on page 11*)
- _____ ****Seeding/Mulching (required if site is inactive for 4 or more days and upon final grading)**
- _____ Other _____
- _____ Other _____
- _____ Other _____

*All temporary erosion and sediment control best management practices must be installed according to the PA Department of Environmental Protection's Erosion & Sediment Pollution Control Program Manual (ESPCPM), which can be accessed through the DEP website at <http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-88925/363-2134-008.pdf>. Also required is a maintenance program which provides for the inspection of BMP's on a weekly basis and after each measurable rainfall event, including the repair of BMP's to ensure their effective and efficient operation.

**Completion of any stage or phase of the earth disturbance activity requires immediate seeding, mulching or other protection from accelerated erosion and sedimentation. Implementation and maintenance of BMP's are required until the disturbed area is permanently stabilized. Types of permanent stabilization include: (1) uniform 70% perennial vegetative cover with density capable of resisting erosion (2) clean rock cover, (3) pavement, (4) concrete or (5) other acceptable BMPs that permanently minimize accelerated erosion and sedimentation. All disturbed areas must be protected to prevent accelerated erosion. In other words, soil cannot be left exposed. When establishing new vegetation, the PennDOT Publication 408, Section 804 manual and/or Tables 11.3, 11.4 and 11.5 as shown on pages 267-269 of the ESPCPM, which are adapted from the Penn State Erosion Control and Conservation Plantings on Noncropland Manual, should be used. Straw or hay mulch will be placed (by either hand or machine) following seeding at a rate of 3 tons per acre. Lime and fertilizer will be applied if needed to encourage vegetative growth.

PERMANENT EROSION CONTROLS

This section details any and all permanent erosion control practices that will be implemented in your project. Check each permanent control that will be used:

- _____ Perennial Grass
- _____ Landscape Vegetation (trees, shrubs, ground cover, etc.)
- _____ Stone / Gravel
- _____ Pavement / Concrete
- _____ Other _____
- _____ Other _____

Who will be responsible for the final stabilization, seeding and mulching of the earth disturbance?

Name: _____

Mailing Address (Street) _____

City/State/Zip _____

Area Code/Phone Number _____ Email: _____

SEQUENCE OF CONSTRUCTION

For an erosion and sediment control plan to be effective, all phases of construction must take place in an orderly sequence. Every effort should be made to minimize the amount of earth to be disturbed and limit the time disturbed earth is exposed to the forces of erosion. The first step in nearly all projects includes the proper installation of construction entrances and adequate erosion control BMP's downslope of the expected project disturbance area. The sequence should then describe the various construction steps necessary to complete the project and end with removal of all temporary controls after permanent stabilization is complete. Please use the space below and label each step in numerical order, highlighting the specific installation order of each E&S BMP.

I agree to completely follow the erosion control plan narrative and drawing(s) for this small project and recognize that I am ultimately responsible for any violations of PA DEP Chapter 102 or 105 regulations that may occur on site. I will prevent any on site violations to the best of my ability and will work diligently to resolve them immediately if they occur. I agree to inspect the BMP's, *at a minimum*, on a weekly basis and after each measurable rainfall event. I will remove sediment as often as necessary and will immediately repair or replace any damaged E&S BMP in accordance with the PA DEP Erosion and Sediment Pollution Control Program Manual. Should any measures contained within this plan prove incapable of adequately removing sediment from on-site flows prior to off-site discharge, additional measures will be immediately implemented to eliminate these problems. Any waste materials will be properly disposed of or recycled in compliance with PA DEP regulations. I also agree to maintain a log of my inspections and repairs and will have the log available on site for review by Conservation District, PA DEP and other environmental inspectors. A copy of this plan narrative and associated drawing(s) will be shared with my earth disturbance contractor for his/her use during construction and will be kept on site for inspection by Conservation District, PA DEP, Army Corps of Engineers and/or Fish and Boat Commission staff when requested.

Applicant Signature _____

Name (Printed) _____ Date _____

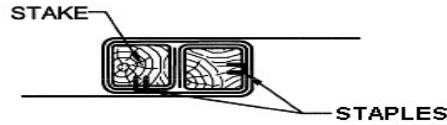
For further information regarding the DEP Chapter 102 program, you may contact the...

Bradford County Conservation District
Stoll Natural Resource Center
200 Lake Road, Suite E
Towanda, PA 18848

PH: (570) 265-5539 ext. 6

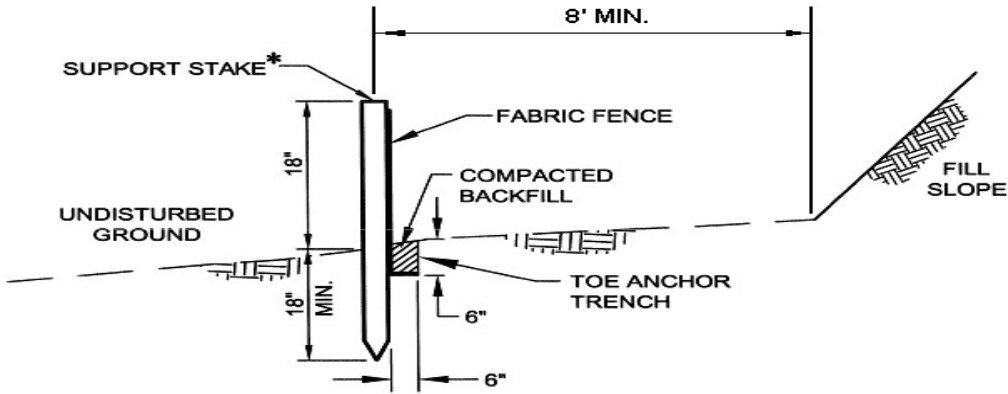
STANDARD CONSTRUCTION DETAIL # 1
Standard Silt Fence (18" High)

*STAKES SPACED @ 8' MAX.
 USE 2" x 2" (± 3/8") WOOD
 OR EQUIVALENT STEEL
 (U OR T) STAKES



Check here if using this BMP

JOINING FENCE SECTIONS

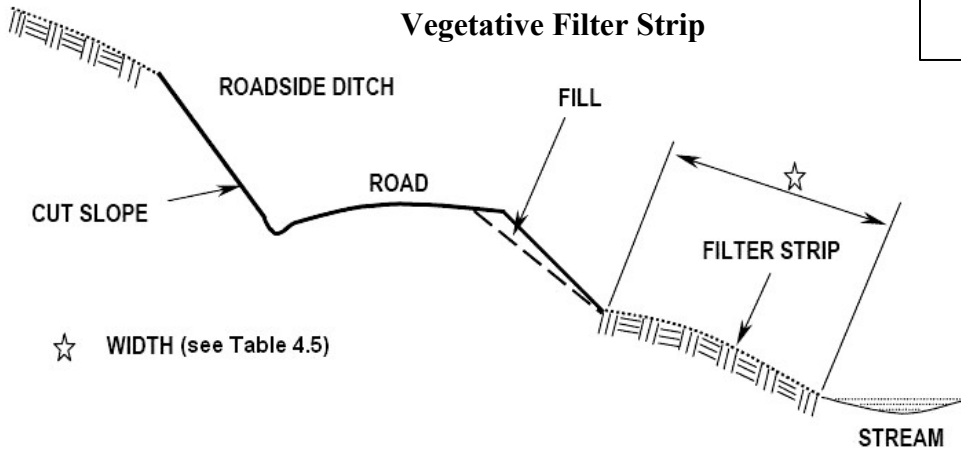


ELEVATION VIEW

Fabric shall have the minimum properties as shown in Table 4.3.
 Fabric width shall be 30" minimum. Stakes shall be hardwood or equivalent steel (U or T) stakes.
 Silt fence shall be placed at level existing grade. Both ends of the fence shall be extended at least 8 feet up slope at 45 degrees to the main fence alignment (see Figure 4.1).
 Sediment shall be removed when accumulations reach half the aboveground height of the fence.
 Any section of silt fence which has been undermined or topped shall be immediately replaced with a rock filter outlet (Standard Construction Detail # 4-6).
 Fence shall be removed and properly disposed of when tributary area is permanently stabilized.

STANDARD CONSTRUCTION DETAIL # 2
Vegetative Filter Strip

Check here if using this BMP

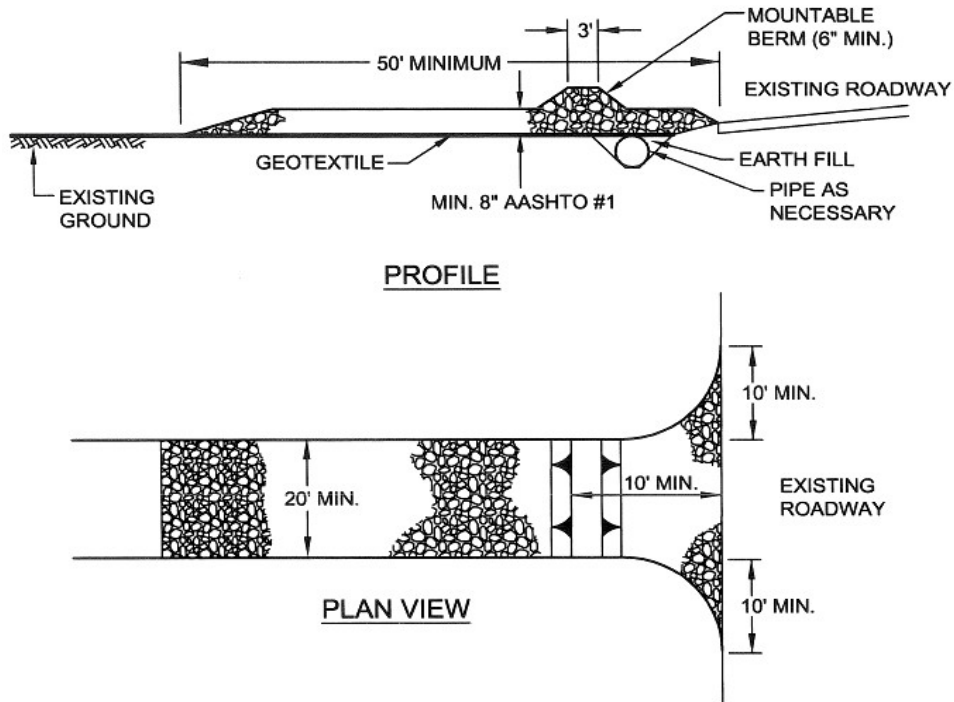


(Table 4.5) Minimum Filter Strip Widths for Sediment Removal

Land Slope (%)	Minimum Filter Strip Width (ft.)
< 10	50
20	65
30	85
40	105
50	125
60	145
70	165

STANDARD CONSTRUCTION DETAIL # 3 Rock Construction Entrance

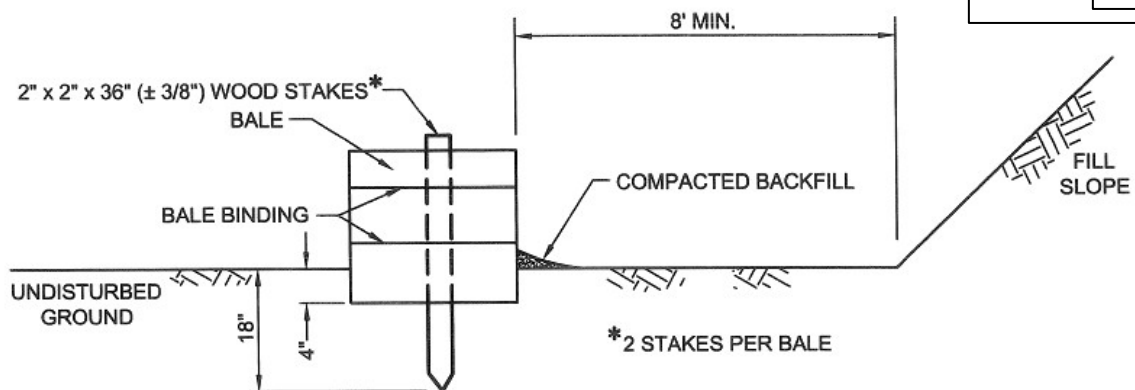
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MAINTENANCE: Rock construction entrance thickness shall be constantly maintained to the specified dimensions by adding rock. A stockpile shall be maintained on site for this purpose. All sediment deposited on paved roadways shall be removed and returned to the construction site immediately. If excessive amounts of sediment are being deposited on roadway, extend length of rock construction entrance by 50 foot increments until condition is alleviated or install wash rack. Washing the roadway or sweeping the deposits into roadway ditches, sewers, culverts, or other drainage courses is not acceptable.

STANDARD CONSTRUCTION DETAIL # 4 Straw Bale Barrier

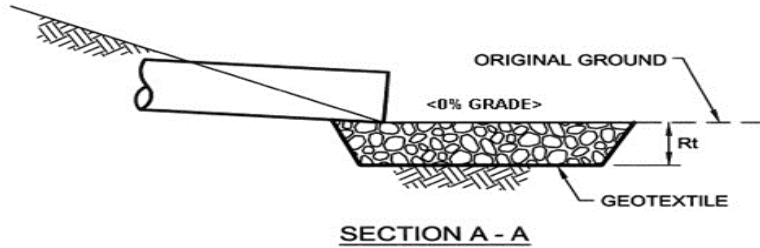
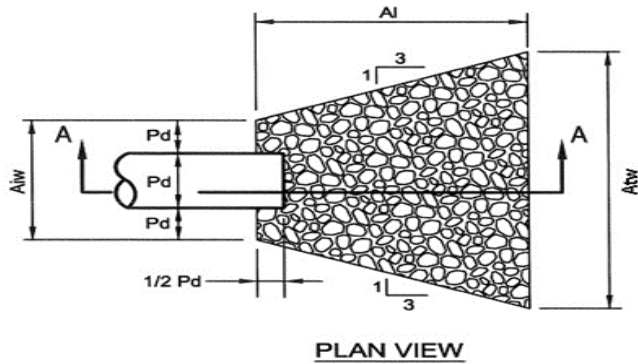
Check here if using this BMP



Straw Bale Barriers shall be placed at existing level grade with ends tightly abutting the adjacent bales. First stake of each bale shall be angled toward adjacent bale to draw bales together. Stakes shall be driven flush with the top of the bale. Both ends of the barrier shall be extended at least 8 feet up slope at 45 degrees to the main barrier alignment. Bales should be replaced every 3 months.

STANDARD CONSTRUCTION DETAIL # 5 Rock Apron Outlet Protection

Check here if using this BMP



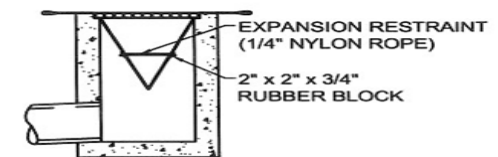
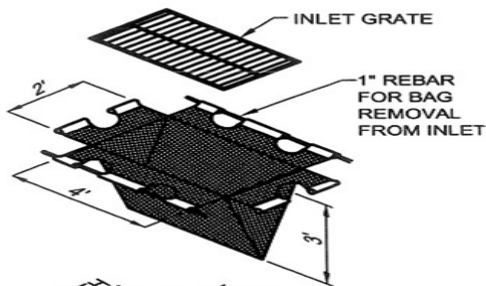
All aprons shall be constructed to the dimensions shown. Terminal widths shall be adjusted as necessary to match receiving channels.

All aprons shall be inspected at least weekly and after each runoff event. Displaced riprap within the apron shall be replaced immediately.

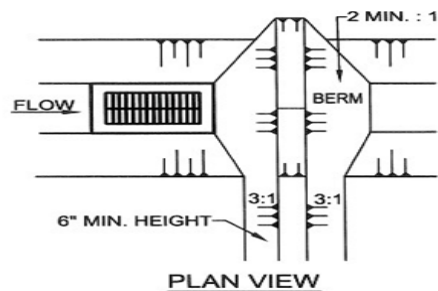
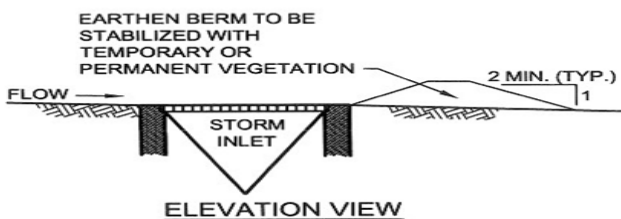
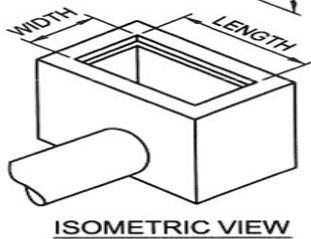
Extend riprap on back side of apron to at least $\frac{1}{2}$ depth of pipe on both sides to prevent scour around the pipe.

STANDARD CONSTRUCTION DETAIL # 6 Filter Bag Inlet Protection

Check here if using this BMP



INSTALLATION DETAIL



Maximum drainage area = 1/2 acre.

Inlet protection shall not be required for inlet tributary to sediment basin or trap. Berms shall be required for all installations.

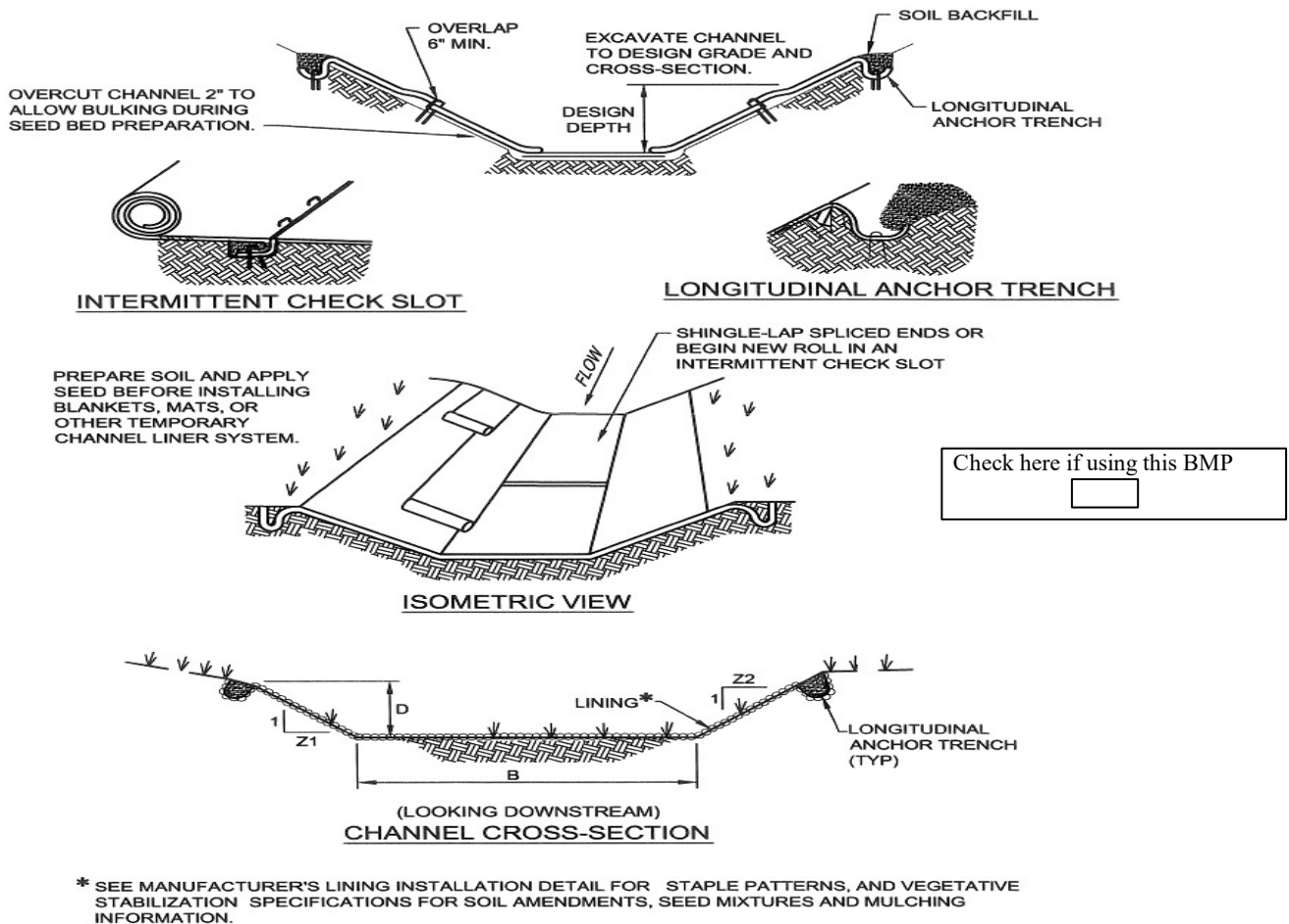
Rolled earthen berm in roadway shall be maintained until roadway is stoned. Road subbase berm on roadway shall be maintained until roadway is paved. Earthen berm in channel shall be maintained until permanent stabilization is completed or remain permanently.

At a minimum, the fabric shall have a minimum grab tensile strength of 120 lbs., a minimum burst strength of 200 psi, and a minimum trapezoidal tear strength of 50 lbs. Filter bags shall be capable of trapping all particles not passing a No. 40 sieve.

Inlet filter bags shall be inspected on a weekly basis and after each runoff event. Bags shall be emptied and rinsed or replaced when half full or when flow capacity has been reduced so as to cause flooding or bypassing of the inlet. Damaged or clogged bags shall be replaced. A supply shall be maintained on site for replacement of bags. All needed repairs shall be initiated immediately after the inspection. Dispose of accumulated sediment as well as all used bags according to the plan notes.

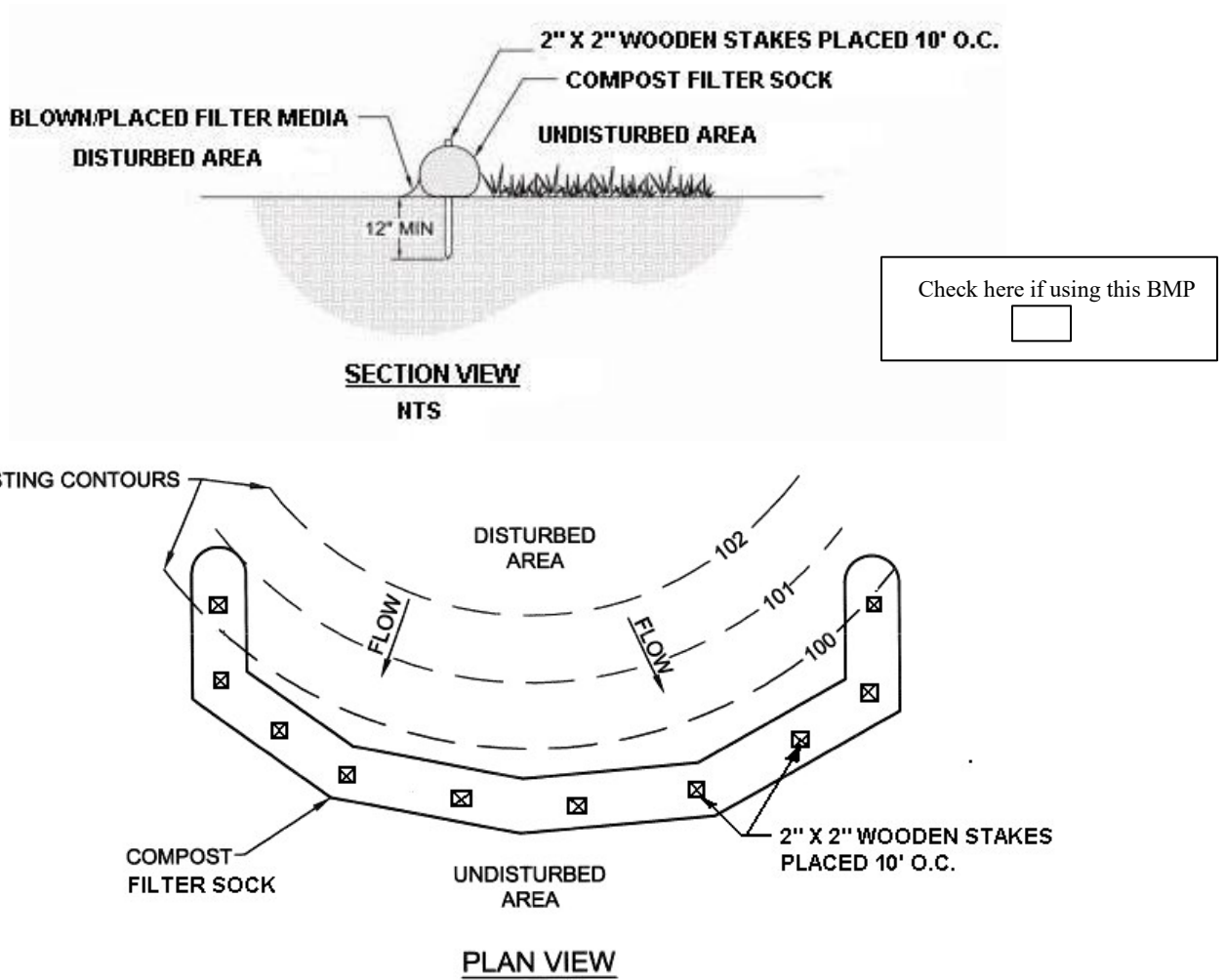
DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

STANDARD CONSTRUCTION DETAIL # 7 Lined and Vegetated Channel



Channel dimensions shall be constantly maintained. Sediment deposits shall be removed within 24 hours of discovery. Damaged lining shall be repaired or replaced within 48 hours of discovery. All channels that are not draining to a sediment trap or sediment basin must be lined with erosion control matting or stone.

STANDARD CONSTRUCTION DETAIL # 8
Compost Filter Sock

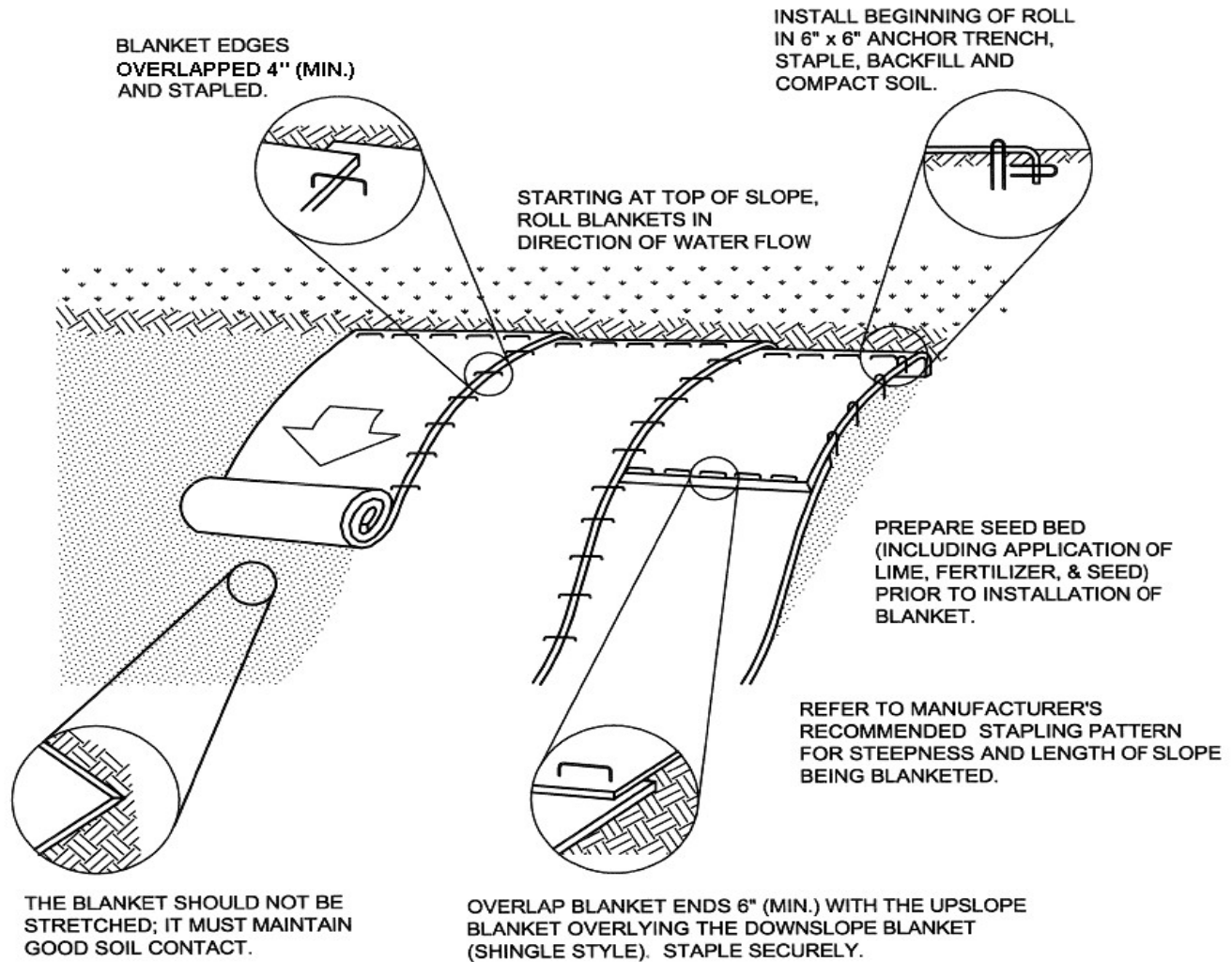


Compost filter sock shall be placed at existing level grade. Both ends of the sock shall be extended at least 8 feet up slope at 45 degrees to the main sock alignment. Stakes may be installed immediately downslope of the sock if so specified by the manufacturer. Traffic shall not be permitted to cross filter socks. Accumulated sediment shall be removed when it reaches half the aboveground height of the sock. Socks shall be inspected weekly and after each runoff event. Damaged socks shall be repaired according to manufacturer's specifications or replaced within 24 hours of inspection. Biodegradable filter socks shall be replaced after 6 months; photodegradable socks after 1 year. Polypropylene socks shall be replaced according to manufacturer's recommendations.

Please note that various sizes of compost filter socks are available. Slope, slope length and size of disturbed area should all be considered when determining appropriate size of filter sock. Please refer to the DEP Erosion & Sediment Pollution Control Program Manual and/or the manufacturer's recommendations for sizing. 8-inch diameter socks should only be used on small residential projects with disturbance of 0.25 acres or less. All others should use a minimum of 12-inch diameter filter socks.

STANDARD CONSTRUCTION DETAIL # 9
Erosion Control Blanket

Check here if using this BMP <input type="checkbox"/>
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Seed and soil amendments shall be applied according to the rates in the plan drawings prior to installing the blanket.

Provide anchor trench at toe of slope in similar fashion as at top of slope.

Slope surface shall be free of rocks, clods, sticks, and grass.

Blanket shall have good continuous contact with underlying soil throughout entire length. Lay blanket loosely and stake or staple to maintain direct contact with soil. Do not stretch blanket.

The blanket shall be stapled in accordance with the manufacturer's recommendations.

Blanketed areas shall be inspected weekly and after each runoff event until perennial vegetation is established to a minimum uniform 70% coverage throughout the blanketed area. Damaged or displaced blankets shall be restored or replaced within 4 calendar days.

STANDARD NOTES TO BE FOLLOWED

- 1.** All earth disturbances, including clearing and grubbing as well as cuts and fills shall be done in accordance with the approved E&S plan. A copy of the approved drawings (stamped, signed and dated by the reviewing agency) must be available at the project site at all times. The reviewing agency shall be notified of any changes to the approved plan prior to implementation of those changes. The reviewing agency may require a written submittal of those changes for review and approval at its discretion.
- 2.** At least 7 days prior to starting any earth disturbance activities, including clearing and grubbing, the owner and/or operator shall invite all contractors, the landowner, appropriate municipal officials, the E&S plan preparer, the PCSM plan preparer, the licensed professional responsible for oversight of critical stages of implementation of the PCSM plan, and a representative from the local conservation district to an on-site preconstruction meeting.
- 3.** At least 3 days prior to starting any earth disturbance activities, or expanding into an area previously unmarked, the Pennsylvania One Call System Inc. shall be notified at 1-800-242-1776 for the location of existing underground utilities.
- 4.** All earth disturbance activities shall proceed in accordance with the sequence provided on the plan drawings. Deviation from that sequence must be approved in writing from the local conservation district or by the Department prior to implementation.
- 5.** Areas to be filled are to be cleared, grubbed, and stripped of topsoil to remove trees, vegetation, roots and other objectionable material.
- 6.** Clearing, grubbing, and topsoil stripping shall be limited to those areas described in each stage of the construction sequence. General site clearing, grubbing and topsoil stripping may not commence in any stage or phase of the project until the E&S BMPs specified by the BMP sequence for that stage or phase have been installed and are functioning as described in this E&S plan.
- 7.** At no time shall construction vehicles be allowed to enter areas outside the limit of disturbance boundaries shown on the plan maps. These areas must be clearly marked and fenced off before clearing and grubbing operations begin.
- 8.** Topsoil required for the establishment of vegetation shall be stockpiled at the location(s) shown on the plan maps(s) in the amount necessary to complete the finish grading of all exposed areas that are to be stabilized by vegetation. Each stockpile shall be protected in the manner shown on the plan drawings. Stockpile heights shall not exceed 35 feet. Stockpile slopes shall be 2H:1V or flatter.
- 9.** Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to minimize the potential for erosion and sediment pollution and notify the local conservation district and/or the regional office of the Department.
- 10.** All building materials and wastes shall be removed from the site and recycled or disposed of in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et seq., 271.1, and 287.1 et. seq. No building materials or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.
- 11.** All off-site waste and borrow areas must have an E&S plan approved by the local conservation district or the Department fully implemented prior to being activated.
- 12.** The contractor is responsible for ensuring that any material brought on site is clean fill. Form FP-001 must be retained by the property owner for any fill material affected by a spill or release of a regulated substance but qualifying as clean fill due to analytical testing.
- 13.** All pumping of water from any work area shall be done according to the procedure described in this plan, over undisturbed vegetated areas.

- 14.** Vehicles and equipment may neither enter directly nor exit directly from lots (specify lot numbers) onto (specify road names) .
- 15.** Until the site is stabilized, all erosion and sediment BMPs shall be maintained properly. Maintenance shall include inspections of all erosion and sediment BMPs after each runoff event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeded, remulching and renetting must be performed immediately. If the E&S BMPs fail to perform as expected, replacement BMPs, or modifications of those installed will be required.
- 16.** A log showing dates that E&S BMPs were inspected as well as any deficiencies found and the date they were corrected shall be maintained on the site and be made available to regulatory agency officials at the time of inspection.
- 17.** Sediment tracked onto any public roadway or sidewalk shall be returned to the construction site by the end of each work day and disposed in the manner described in this plan. In no case shall the sediment be washed, shoveled, or swept into any roadside ditch, storm sewer, or surface water.
- 18.** All sediment removed from BMPs shall be disposed of in the manner described on the plan drawings.
- 19.** Areas which are to be topsoiled shall be scarified to a minimum depth of 3 to 5 inches — 6 to 12 inches on compacted soils — prior to placement of topsoil. Areas to be vegetated shall have a minimum 4 inches of topsoil in place prior to seeding and mulching. Fill out slopes shall have a minimum of 2 inches of topsoil.
- 20.** All fills shall be compacted as required to reduce erosion, slippage, settlement, subsidence or other related problems. Fill intended to support buildings, structures and conduits, etc. shall be compacted in accordance with local requirements or codes.
- 21.** All earthen fills shall be placed in compacted layers not to exceed 9 inches in thickness.
- 22.** Fill materials shall be free of frozen particles, brush, roots, sod, or other foreign or objectionable materials that would interfere with or prevent construction of satisfactory fills.
- 23.** Frozen materials or soft, mucky, or highly compressible materials shall not be incorporated into fills.
- 24.** Fill shall not be placed on saturated or frozen surfaces.
- 25.** Seeps or springs encountered during construction shall be handled in accordance with the standard and specification for subsurface drain or other approved method.
- 26.** All graded areas shall be permanently stabilized immediately upon reaching finished grade. Cut slopes in competent bedrock and rock fills need not be vegetated. Seeded areas within 50 feet of a surface water, or as otherwise shown on the plan drawings, shall be blanketed according to the standards of this plan.
- 27.** Immediately after earth disturbance activities cease in any area or subarea of the project, the operator shall stabilize all disturbed areas. During non-germinating months, mulch or protective blanketing shall be applied as described in the plan. Areas not at finished grade, which will be reactivated within 1 year, may be stabilized in accordance with the temporary stabilization specifications. Those areas which will not be reactivated within 1 year shall be stabilized in accordance with the permanent stabilization specifications.
- 28.** Permanent stabilization is defined as a minimum uniform, perennial 70% vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated erosion. Cut and fill slopes shall be capable of resisting failure due to slumping, sliding, or other movements.
- 29.** E&S BMPs shall remain functional as such until all areas tributary to them are permanently stabilized or until they are replaced by another BMP approved by the local conservation district or the Department.
- 30.** Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district for an inspection prior to removal/conversion of the E&S BMPs.






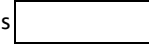





- 31.** After final site stabilization has been achieved, temporary erosion and sediment BMPs must be removed or converted to permanent post construction stormwater management BMPs. Areas disturbed during removal or conversion of the BMPs shall be stabilized immediately. In order to ensure rapid revegetation of disturbed areas, such removal/conversions are to be done only during the germinating season.
- 32.** Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas, the owner and/or operator shall contact the local conservation district to schedule a final inspection.
- 33.** Failure to correctly install E&S BMPs, failure to prevent sediment-laden runoff from leaving the construction site, or failure to take immediate corrective action to resolve failure of E&S BMPs may result in administrative, civil, and/or criminal penalties being instituted by the Department as defined in Section 602 of the Pennsylvania Clean Streams Law. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.
- 34.** Concrete wash water shall be handled in the manner described on the plan drawings. In no case shall it be allowed to enter any surface waters or groundwater systems.
- 35.** All channels shall be kept free of obstructions including but not limited to fill, rocks, leaves, woody debris, accumulated sediment, excess vegetation, and construction material/wastes.
- 36.** Underground utilities cutting through any active channel shall be immediately backfilled and the channel restored to its original cross-section and protective lining. Any base flow within the channel shall be conveyed past the work area in the manner described in this plan until such restoration is complete.
- 37.** Channels having riprap, Reno mattress, or gabion linings must be sufficiently over-excavated so that the design dimensions will be provided after placement of the protective lining.
- 38.** Sediment basins and/or traps shall be kept free of all construction waste, wash water, and other debris having potential to clog the basin/trap outlet structures and/or pollute the surface waters.
- 39.** Sediment basins shall be protected from unauthorized acts by third parties.
- 40.** Any damage that occurs in whole or in part as a result of basin or trap discharge shall be immediately repaired by the permittee in a permanent manner satisfactory to the municipality, local conservation district, and the owner of the damaged property.
- 41.** Upon request, the applicant or his contractor shall provide an as-built (record drawing) for any sediment basin or trap to the municipal inspector, local conservation district or the Department.
- 42.** Erosion control blanketing shall be installed on all slopes 3H:1V or steeper within 50 feet of a surface water and on all other disturbed areas specified on the plan maps and/or detail sheets.
- 43.** Fill material for embankments shall be free of roots, or other woody vegetation, organic material, large stones, and other objectionable materials. The embankment shall be compacted in maximum _____layered lifts at _____% density.

Project Name _____ Responsible Person _____

FINAL EROSION & SEDIMENT CONTROL PLAN DRAWING. LABEL EVERYTHING CLEARLY AND ATTACH ADDITIONAL SHEETS IF NECESSARY.

North Arrow Direction

Approx. Scale _____

Standard Symbols				
Ex. Stream/Swale/Ditch 	Property Boundary ++++++++	Rock Const. Entrance RCE	Lined Channel >>>>>>	Stone/Gravel/Concrete/Pavement 
Ex. Pond/Wetland Boundary OOOO	New/Existing Roadways 	Silt Fence ----SF----SF----SF----SF	Erosion Cont. Blanket XXX	Permanent Vegetation  PV
Approx. Slope Direction 	Existing Structures 	Compost Filter Sock ----CFS----	Outlet Protection 	-----
Limit of Disturbance ----LOD----	New Structures 	Straw Bale Barrier ----SBB----SBB	Inlet Protection 	-----
Approx. New Contours 	New/Existing Utility Lines -UTL--	Veg. Filter Strip ****VFS****	Topsoil Stockpile 	-----