

AS-BUILT PLANS

The developer shall be responsible for providing as-built plans of all SWM BMPs included in the approved SWM site plan for activities involving proposed impervious surfaces 1,000 square feet or greater and for earth disturbances 5,000 square feet or greater.

- (a) The as-built plans and all explanation of any discrepancies with the construction plans shall be submitted to Upper Providence Township within three months of the completion of construction of the SWM BMPs.
- (b) As-built plans shall show the location and as-built conditions of all SWM BMP structures and include the following information: impervious surfaces included in the approved SWM site plan; topographic contours; and existing, proposed and built impervious surfaces shown in the as-built drawings.
- (c) The as-built submission shall include a certification of completion signed by a design professional verifying that all permanent SWM BMPs have been constructed according to the approved plans and specifications.
- (d) Upper Providence Township will review the as-built submission for consistency with the approved SWM site plan as well as actual conditions at the project site. After receipt of the completion certification by the municipality, the municipality may conduct a final inspection.
- (e) The as-built plan of site improvements and constructed SWM facilities must be prepared and submitted to Township for review and approval prior to the issue of a Certification of Occupancy.

SWM OPERATIONS and MAINTENANCE AGREEMENT

Prior to final approval of the site's SWM site plan, the applicant shall sign and record an operations and maintenance agreement with Upper Providence Township covering all stormwater controls and BMPs that are to be privately owned. The maintenance agreement shall be transferred with transfer of ownership in perpetuity.

SEQUENCE OF CONSTRUCTION

- limits of disturbance shall be field delineated and tree protection measures shall be installed prior to the start of any earth disturbance
- Place temporary silt sock barriers and tree protection fencing as indicated on the Plans.
- Contractor must verify location of all existing utility lines. i.e. Existing Water Main, Existing Electric & Communication Lines, Existing Force Main Line and Clean Out, Existing Grinder Pump and Ex. Gas Service Line.
- Cut in Construction Access per plan, apply layer of crushed stone and maintain as construction access.
- Install Compost Filter Sock Wash-Out
- Construct building foundations. As soon as first floor decking is in place, backfill foundation and rough grade surrounding areas.
- Install the Stormwater Seepage Bed. Cut and Fit plywood to fit under inlet grates and seal watertight until tributary area has been stabilized.
- Any topsoil stockpile generated by ITEMS 2 through 4 shall be placed in an area not subject to erosion and a silt fence barrier shall be installed and maintained around the downslope perimeter.
- To all areas which shall remain disturbed and will be subject to the action of earthmoving and other equipment, apply a mulch (wood chip - 3 tons per acre; hay or straw - 3 tons per acre). All other disturbed areas remaining open shall be temporarily seeded and mulched.
- Install underground utilities following procedures set forth in UTILITIES following final grading.
- Complete house construction connect all roof drains to seepage bed.
- Stone Proposed Driveway, Repair any Potholes on Existing Common Driveway per Existing Driveway Repair & Overlay Detail. Overlay Existing Driveway and Pave Proposed Driveway.
- Permanent grass cover shall be established by seeding and mulching, following final grading.
- Driveway is to be stabilized with crushed stone or paving following the completion of the house construction. Stone filter berms may be incorporated into the driveway if relatively clear. Remove if choked with sediment.
- Erosion and Sediment control facilities are to be checked and properly maintained weekly and after each storm event. Sufficient quantities of silt fencing, crushed stone, straw bales, seeding and mulching should be readily available for remedial work if required.
- Silt fencing and the the plywood over the inlets may be removed when the site is stabilized.
- The Contractor is advised to become familiar with the "Erosion and sediment Pollution Control Program Manual" by the Commonwealth of Pa., Department of Environmental Resources, April 2000 edition.
- Technical advice for the implementation of this program may be obtained by contacting Mr. Edward Magorsee, District Manager, Delaware County Conservation District at (610) 892-9484.
- Copies of these plans must be available on site throughout construction.

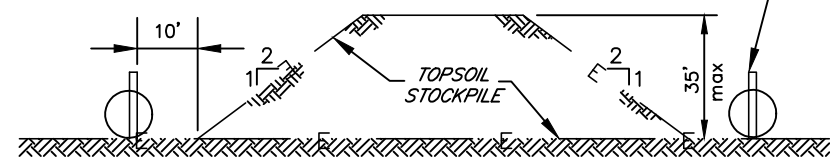
MAINTENANCE PROGRAM

- Provide a silt fence barrier downslope of any topsoil stockpiles and maintain as needed. All sediment, which is removed from the sediment, filters and berms shall be stockpiled in an area not subject to erosion and ultimately used in the final grading of the site.
- To all areas which shall remain disturbed and will be subject to the action of earthmoving and other equipment, apply a mulch (wood chip - 20 tons per acre; hay or straw - 3 tons per acre). All other disturbed areas remaining open shall be temporarily seeded and mulched.
- Seeded areas that have washed away shall be filled and graded as necessary, reseeded and mulched.

UTILITIES

- All new utilities to be placed underground.
- Excavate that length of utility trench, which can be installed, and backfilled in one day's work.
- Place excavated material on upslope side of trench
- Stabilize backfilled trench commensurate with final surface materials, i.E. seeding and mulching for lawns/wood areas, crushed stone for driveway areas.

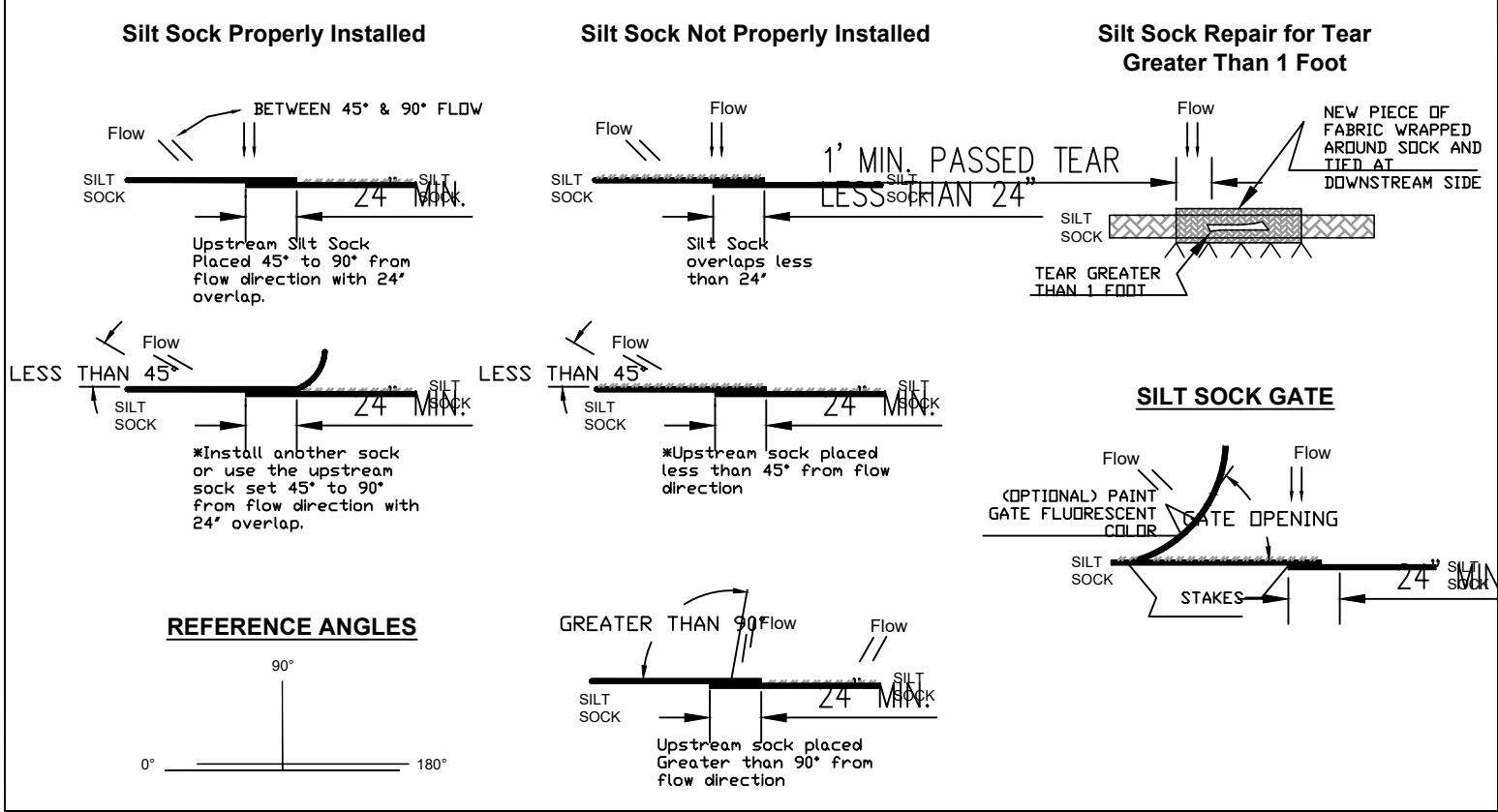
- LEGEND**
- EXISTING FIRE HYDRANT
 - EXISTING UTILITY POLE
 - EXISTING WATER VALVE
 - EXISTING WELL
 - EXISTING DECIDUOUS TREE
 - EXISTING TREELINE
 - EXISTING 2' CONTOUR
 - EXISTING 10' CONTOUR
 - SOIL BOUNDARY LINE
 - EXISTING TYPE "C" INLET
 - EXISTING SANITARY MANHOLE
 - EXISTING SANITARY SEWER FORCE MAIN
 - EXISTING SANITARY SEWER
 - EXISTING WATER MAIN
 - EXISTING WATER LINE
 - EXISTING ELECTRIC LINE
 - EXISTING GAS LINE
 - EXISTING FENCES
 - TREE PROTECTION FENCE
 - COMPOST FILTER SOCK
 - LIMIT OF DISTURBANCE
 - STEEP SLOPES (15% - 25%)
 - VERY STEEP SLOPES (> 25%)



- NOTES:**
- STOCKPILE SHALL BE IMMEDIATELY STABILIZED WITH SEED AND MULCH WHEN CONSTRUCTION ACTIVITIES CEASE.
 - HEIGHT OF STOCKPILE SHALL NOT EXCEED 35 FEET.
 - SIDE SLOPES SHALL BE NO STEEPER THAN 2:1.
 - FILTER SOCK SHALL BE PLACED DOWN SLOPE OF STOCKPILE AREA AS SHOWN ON THE PLANS.
 - FILTER SOCK SHALL BE PLACED A MINIMUM OF 10 FEET FROM THE TOE OF SLOPE.
 - FILTER SOCK SHALL BE INSPECTED AFTER EACH RAIN EVENT. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM FILTER SOCK AND PLACED IN AN AREA NOT SUBJECT TO ACCELERATED EROSION AND STABILIZED.

TEMPORARY TOPSOIL STOCKPILE DETAIL

Installation Details



Silt Sock

EROSION CONTROL PRODUCTS
www.siltsock.net
808-438-7625



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