

## CONSTRUCTION SEQUENCE (Suggested)

- A copy of the approved erosion and sediment control plan must be available at the project site at all times.
  - All earth disturbance activities shall proceed in accordance with the following sequence. Each stage shall be completed and immediately stabilized before any following stage is initiated. Clearing, grubbing and topsoil stripping shall be limited only to those areas described in each stage. Topsoil shall be stockpiled in the areas designated on the plan drawing and immediately stabilized.
  - Install erosion and sediment controls per the construction details and locations provided on the plan.
  - At least 7 days before starting any earth disturbance activities, the owner and/or operator shall invite all contractors involved in those activities, the landowner, all appropriate municipal officials, the erosion and sediment control plan preparer, and a representative of the York County Conservation District to an on-site pre-construction meeting.
  - At least 3 days before starting any earth disturbance activities, all contractors involved in those activities shall notify the Pennsylvania One Call System Incorporated at 1-800-242-1776 for underground utility locations.
  - “Immediately upon discovering unforeseen circumstances posing the potential for accelerated erosion and/or sediment pollution, the operator shall implement appropriate best management practices to eliminate the potential for accelerated erosion and/or sediment pollution.”
  - “All pumping of sediment laden water shall be through a sediment control BMP, such as a pumped water filter bag or equivalent sediment removal facility, over undisturbed vegetated areas.”
- 1) Install the rock construction entrance.
  - 2) Clearly field mark the locations of the limits of disturbance, steep slopes, floodway, and wetlands shown on the plan drawing. Fence off any trees to be saved.
  - 3) Install all silt fence.
  - 4) Install the stormwater discharge pipe from the sediment basin to existing 24” culvert under Brandywine Lane and immediately stabilize the disturbed area.
  - 5) Construct and immediately stabilize the sediment basin and sediment traps 1, 2, and 3. Any excess material excavated from the BMP’s to be used as fill material before completion of the BMP’s shall be placed in an upslope area draining directly back into the BMP’s under construction or in another drainage area with BMP’s already installed.
  - 6) Construct and immediately stabilize channels 3, 4, and earth collector berm #1.
  - 7) Clear and grub only trees necessary for rough-grading proposed streets and lots.
  - 8) Strip topsoil and rough grade the proposed streets and lots. Immediately install the broad-based dips in streets.
  - 9) Replace topsoil and immediately stabilize all disturbed areas not necessary for street and utility construction.

- 10) Install all required utilities and curbing. Excavated trench material shall be placed on the upslope side of trench, the trench backfilled at the end of each work day, and any affected BMP's immediately repaired. Upon installation of the storm sewer system immediately install inlet berms at all inlets not in sumped condition. Install inlet sacks in inlets 1-4. Do not install inlet sacks in inlets draining to the sediment basin.
- 11) Install compacted stone base and binder course in streets. Immediately reinstall temporary inlet berms at inlets.
- 12) Immediately stabilize all areas disturbed by utility installation.
- 13) Begin residential lot construction. Refer to the individual on-lot control scenarios to prevent sediment discharge onto the streets and completed down hill lots. Upon completion of each lot's improvements immediately stabilize all disturbed areas.
- 14) Upon completion of all earth disturbance activities and permanent stabilization of all disturbed areas (i.e. "a minimum uniform 70% perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding and other movements."), the owner and/or operators shall contact the York County Conservation District for a final inspection prior to the removal of the BMP's."
- 15) Upon Conservation District approval remove the BMP's and immediately stabilize the affected area:
  - Remove collector berm #1.
  - Remove traps 1, 2, & 3.
  - Remove accumulated sediment behind silt fence then remove all silt fence and properly dispose of.
  - Flush any sediment from storm sewer pipes into sediment basin.
  - Regrade the interior of the sediment basin to the final stormwater basin grades. Do not convert the sediment basin to the final stormwater management basin during non-germinating periods.
  - Install a minimum 2' high rock filter berm around the permanent outlet structure and then remove the temporary riser pipe.
  - Upon completion, immediately permanently stabilize all disturbed areas within the interior of the basin.
- 16) Contact the York County Conservation District to conduct a final inspection to close out site.

#### On-lot Sequence for Lots 35-48, 64-67, 80-83, and 96-102

- 1) Install rock construction entrance. If driveway slopes towards the street immediately install broad-based dip and apply stone base to the entire length of driveway .
- 2) Install silt fence (and rock filters if applicable) as shown on the plan drawing.
- 3) Limit the disturbance to only the area required for lot improvements. Fence off any trees to be saved.
- 4) Strip topsoil and stockpile in designated area. Immediately seed and straw mulch the stockpile.
- 5) Construct house and other lot improvements. If the rain spouting does not discharge into a seepage pit extend the rain spouting with flexible plastic pipe to discharge the roof runoff to a stable, undisturbed area until permanent grass cover is well-established.
- 6) Upon completion of all lot improvements, immediately replace topsoil and permanently seed and mulch all disturbed areas. Tack straw-mulch. Install an erosion control blanket in all areas of concentrated flows and on banks steeper than 3:1.
- 7) Remove the silt fence and rock filters only after permanent grass cover is well-established on all disturbed areas.

#### **Natural Gasline Stream Crossing Construction Sequence**

- Refer to DEP permit for all permit conditions.
  - Work to occur from top of bank only and only during low flow conditions.
  - Work not to occur in stream between March 1 and June 15.
  - Staging areas to be located at least 50 feet from top of streambank.
- 1) Clearly field mark the location of all delineated wetland boundaries and trees and shrubs to be protected.

#### Stages 2 to 10 to be completed within 72 hours

- 2) Clear and grub only vegetation necessary for construction of utility line and not more than 1 day before construction is to occur. Install silt fence as needed.
- 3) Install 24" diameter flume pipe and sandbag dams at both ends to direct stream flow through the pipe (see detail). Pump any sediment-laden water within the work area to a sediment filter bag.
- 4) Strip topsoil and begin utility trench excavation for gasline installation.

- 5) Locate any stockpiles at least 10 feet back from top of streambank. Install 18" silt fence between the stream and temporary stockpiles.
- 6) Install trench plugs on both sides of stream channel while trench is open.
- 7) Immediately upon completion (1 day) of gasoline installation, backfill trench to preconstruction grades, replace topsoil, and stabilize all disturbed areas. Install an erosion control blanket on all disturbed areas within 50' of the stream.
- 8) Remove flume pipe and sandbags upon stabilization of the stream channel.
- 9) Remove all remaining excess material to a disposal site with an erosion & sediment control plan.
- 10) Install waterbars across utility line right of way to divert runoff way from disturbed area near stream.