EROSION CONTROL GUIDELINES

APRIL 2018

Property owners and their construction contractors are responsible for managing stormwater and preventing offsite discharge of sediment and other stormwater-borne pollution. Besides being a nuisance, sediment and other pollution can permanently damage drainage systems and impair receiving waters and other sensitive features. Property owners and their contractors can minimize erosion and sedimentation by properly implementing appropriate Best Management Practices (BMPs). Sample BMPs and links to resources for additional information are included below.

A properly implemented erosion control program will:

- Minimize exposed soil areas through maintaining existing vegetation, site control, construction sequencing, temporary seeding, and other management measures;
- Protect downslope resources;
- Provide and maintain barriers and devices to manage stormwater runoff and erosion; and
- Establish a permanent vegetative cover or other stabilization as soon as possible.

Prior to construction:

- Review and adhere to all applicable permit requirements;
- Install appropriate BMPs, such as a stone construction entrance, sediment barriers, etc.
- Protect all vulnerable features downslope of the proposed work with appropriate BMPs.

During construction:

- Limit construction vehicle access to approved driveways only.
- Replenish crushed stone driveway aprons as needed to prevent sediment tracking.
- Do not exceed slopes of 2-Horizontal to 1-Vertical (2H to 1V)
- Restrict disturbances to the approved limits of work.
- Apply erosion control blankets, mulch, or bonded fiber matrix to exposed soils that will not be permanently stabilized within 30 days. Mulch should be hydraulically applied and anchored with netting or approved tacking agent.
- Inspect all BMPs at least once per day during rain events and at least once per week during dry weather. Repair deficiencies immediately.
- Promptly remove any soil, debris, or other material that has washed onto adjacent properties. Restore affected areas immediately.
At the close of construction:

- Stabilize disturbed areas with grass and 6-inches of topsoil or other approved method. Foundation plantings and mulch may be established in areas retained by walls with slopes less than 3H to 1V.
- Apply soil stabilization fabric/erosion control blankets to disturbed areas sloped more than 3H to 1V and as needed.
- Pipe roof drains to drywells.
- Grade final driveway aprons to maintain the gutter line of the adjacent street and pave in accordance with the Town’s driveway regulations. Provide berms or curbing along sides of driveways as needed.
- Remove and properly dispose of all silt fence, hay/straw bales, and other BMPs after vegetation is established and the site is stabilized.

Sample BMPs:

**Site Configuration**

**Typical On-lot BMPs for Lot Above Roadway**

Source: PA DEP Erosion and Sediment Control Program Manual NTS
Typical On-lot BMPs for Lot Below Roadway

FILTER FABRIC FENCE OR SEDIMENT FILTER LOG (TYP)

HOUSE

TOPSOIL

SLOPE

DRIVEWAY

STREET OR ROADWAY

50 MIN

THE AREA DOWNSLOPE FROM THE FILTER FABRIC FENCE MAY NOT BE UNDER DEVELOPMENT OR OTHERWISE DISTURBED.
Catch Basin Protection

Inlet Grate

1" REBAR FOR BAG REMOVAL FROM INLET

Width
Length

Isometric View

Sandbag, Filter Log, Compost Sock, or Filter Tube

Expansion Restraint (1/4" Nylon Rope)

2" x 2" x 3/4" Rubber Block

Installation Detail

Curb

Storm Inlet

Elevation View

Flow

Of Curb

2 Min.: 1 (Typ.)

Plan View

Source: PA DEP Erosion and Sediment Control Program Manual NTS
Sediment Barriers

Small-Scale Site Development Driveway Apron Plan
Erosion Control Blanket

INSTALL BEGINNING OF ROLL IN 6" x 6" ANCHOR TRENCH, STAPLE, BACKFILL AND COMPACT SOIL.

STARTING AT TOP OF SLOPE, ROLL BLANKETS IN DIRECTION OF WATER FLOW

PREPARE SEED BED (INCLUDING APPLICATION OF LIME, FERTILIZER, & SEED) PRIOR TO INSTALLATION OF BLANKET.

REFER TO MANUFACTURER'S RECOMMENDED STAPLING PATTERN FOR STEEPLESS AND LENGTH OF SLOPE BEING BLANKETED.

THE BLANKET SHOULD NOT BE STRETCHED; IT MUST MAINTAIN GOOD SOIL CONTACT.

OVERLAP BLANKET ENDS 6" (MIN.) WITH THE UPSLOPE BLANKET OVERLYING THE DOWNSLOPE BLANKET (SHINGLE STYLE). STAPLE SECURELY.

Source: PA DEP Erosion and Sediment Pollution Control Program Manual
The following chart is designed to help select erosion and sediment control practices that may be appropriate for the site. It is often advantageous to use several practices, including retaining existing vegetation, as a combined treatment approach for addressing erosion and sedimentation issues at the site.

Vegetative cover is the best and often the most cost-effective practice for controlling site erosion!

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Additional information for BMPs and managing sites may be found at the following:

MassDEP - Erosion & Sedimentation Guidelines

MassDOT Erosion and Sediment Control Field Guide

PA DEP Erosion and Sediment Pollution Control Program Manual

EPA - Stormwater Menu of BMPs
http://cfpub.epa.gov/npdes/stormwater/menuofbmps/index.cfm