

STORMWATER FACT SHEET: CONSTRUCTION SITE STORMWATER BMP INSTALLATION TIPS



Quick facts on... The Installation of Erosion & Sediment Control BMPs on Construction Sites

PURPOSE: Provide a quick reference guide for the installation of several commonly used construction site erosion and sediment control BMPs.

HOW TO USE THIS GUIDE: For a particular BMP, review the photo and read the accompanying caption for key points on the proper installation of the BMP. Refer to your SWPPP for actual installation guidelines.



Temporary Seeding



327 IAC 15-5-7(b)(16): Unvegetated areas that are scheduled or likely to be left inactive for fifteen (15) days or more must be temporarily or permanently stabilized with measures appropriate for the season to minimize erosion potential.

Source: Indiana Storm Water Quality Manual

Use the seed mix specified in the SWPPP. Roughen slopes; loosen soil to a depth of 2" to 3" prior to seeding. Do not cover seed with more than 1/2" of soil.

Permanent Seeding



Source: Indiana Storm Water Quality Manual

Loosen/till topsoil to a minimum depth of 3". Add fertilizer per SWPPP. Apply seed. Apply mulch or erosion control blanket to protect permanent seeding.

Mulching



Source: INDOT Storm Water Management Field Guide

Install mulch within 24 hours of seeding. After spreading, no more than 25% of ground should be visible. Anchor/secure mulch immediately after application.

Erosion Control Blanket



Use the type of Erosion Control Blanket specified in the SWPPP. Prepare the area by removing rocks or clods over 1-1/2" in diameter. Anchor blankets in place.

Vegetative Buffer



Source: INDOT Storm Water Management Field Guide

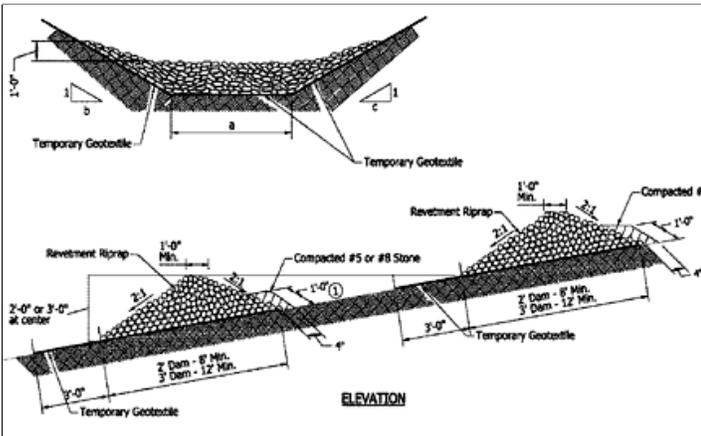
Buffer vegetation must be at least 4" tall and cover 80% or more of the surface. Weeds are not acceptable as a buffer. Never use wetlands as a vegetative buffer.

Dewatering



Water from dewatering operations must be filtered before release/discharge offsite. When using a dewatering filter bag, place bag on flat stable surface.

Rock Check Dam



Source: Indiana Storm Water Quality Manual

Install geotextile fabric (8 ounce or heavier; nonwoven). Place revetment riprap. Install #5 or #8 filter stone on front face. Tie sides into adjacent slope.

Concrete Washout

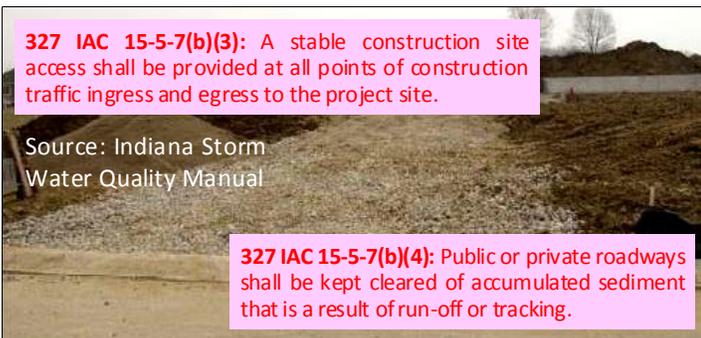


327 IAC 15-5-7(b)(16): Identification of areas where concrete truck washout is permissible must be clearly posted at appropriate areas of the site.

Source: INDOT Storm Water Management Field Guide

Locate concrete washout per SWPPP. Place bales. Use one continuous liner: DO NOT OVERLAP multiple sheets. Secure with stakes or stone. Install "Concrete Washout" sign.

Construction Entrance



327 IAC 15-5-7(b)(3): A stable construction site access shall be provided at all points of construction traffic ingress and egress to the project site.

Source: Indiana Storm Water Quality Manual

327 IAC 15-5-7(b)(4): Public or private roadways shall be kept cleared of accumulated sediment that is a result of run-off or tracking.

Avoid locating entrance on steep slopes or at curves in road. Entrance should be a minimum of 12' wide/50' long. Place #2 stone on geotextile fabric; top-dress with #53 stone.

Silt Fence



Source: INDOT Storm Water Management Field Guide

Silt fence should not be used in concentrated flow areas. Install silt fence prior to land disturbance activities. Trench in bottom of silt fence. Backfill trench.

Filter Sock



Place filter sock barrier at least 10 feet past the toe of the slope and place filter sock to be parallel to the slope contour. Overlap ends of filter sock.

Filter Berm



Filter berms can be made of rock, compost or filter sock. When using rock, place riprap on geotextile fabric with filter stone (#5 or #8) on the upslope side.

Sediment Trap



Install at location as identified by the SWPPP. Place geotextile fabric and revetment riprap. Line inside face with 12" layer of #5 or #8 stone. Stabilize outlet.

Sediment Basin



Install per SWPPP specifications. Clear/grub/prepare sub-base. Install Principal Spillway. Install embankment for pool area. Install emergency spillway.

Inlet Protection



There are multiple options for inlet protection: geotextile box with cross bracing; gravel ring (riprap with 12" of filter stone); commercial inlet filter products.

Culvert Inlet Protection



Install culvert inlet protection as identified by the SWPPP. Place revetment riprap to create the basin at the culvert. Place #5 or #8 stone as a filter around the perimeter.

For detailed information on the installation of a particular BMP on a construction site, refer to the specifications contained with the approved SWPPP for your particular construction site. For technical reference information on construction site BMPs in general, refer to the following documents which were used in the preparation of this Fact Sheet:

- INDOT Storm Water Management Field Guide – 2015 (www.in.gov/indot)
- Indiana Storm Water Quality Manual (www.in.gov/idem/stormwater/2363.htm)

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