

STORM DRAIN INLET PROTECTION



Estimated Cost
\$75

Alternatives
None

Notes:

Storm drain inlet protection Best Management Practices (BMPs) are devices that prevent soil and sediment from entering existing storm drains. Inlet protection can include filter fabric, straw bales, sandbags, bags filled with other approved materials and stone weepers. Inlet protection devices may be enhanced by additional excavation to increase the storage capacity around the inlet.

USAGE

Use Storm drain inlet protection on every storm drain on the construction site. Storm drain inlet protection is appropriate for use on sites with under one acre of disturbed land. Runoff from area larger than one acre should be routed through a properly designed sediment trapping or settling practice upstream of the inlet.

BENEFITS

- ◆ Protects storm drain systems from receiving waters laden with sediment and soil
- ◆ Allows storm drains to be utilized without polluting them
- ◆ Provides relatively good removal of coarse and medium-size soil particles

LIMITATIONS

- ◆ Difficult to remove sediment from BMP
- ◆ May cause flooding problems if device becomes clogged with sediment
- ◆ Can cause erosion problems elsewhere if device becomes clogged
- ◆ Requires frequent inspection and maintenance
- ◆ Most fine silt and clay particles will pass through the filtering mechanism

MAINTENANCE

- ◆ Inspect BMPs weekly and after rainfall of $\frac{1}{2}$ inch or greater within 24 hours
 - there should be NO gaps at the interface of the ground and the BMP
- ◆ Accumulated sediment reaching $\frac{1}{3}$ to $\frac{1}{2}$ of barrier's height must be periodically removed to maintain effectiveness
- ◆ Inlet protection devices may be removed once the drainage area is stabilized with appropriate vegetation or impervious area



INSERT LOCAL
MUNICIPALITY LOGO
AND NUMBER

STORM DRAIN INLET PROTECTION

FILTER FABRIC MATERIAL BARRIERS

TYPE A

- ♦ used around inlets on unpaved areas until permanent stabilization methods have been established
- ♦ used on inlets prior to installation of curb & gutter and where safety will not be compromised



Specific design, installation and Performance Requirements must be met for all BMPs. These requirements can be found in the DNR Technical Standards

TYPE B

- ♦ Used after the casting in grate are in place



A link to the technical standards can be found at NEWWaterWisconsin.org

Notes:

TYPE C

- ♦ used on street inlets with curb heads.
- ♦ a 1½" x 3½" minimum, piece of wood is placed in front of the curb head. It should not block the entire opening and is secured with ties to the grate



TYPE D

- ♦ used in areas where other types of protection do not work with road conditions.
- ♦ only to be used after castings are in place on the top of the inlet box

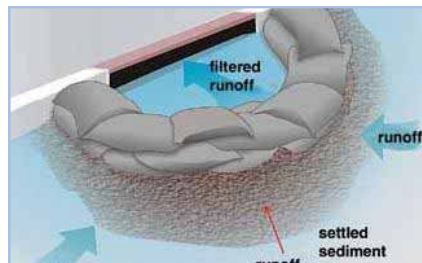


Protection device (right) sits in drain

STRAW BALES



SAND / ROCK BAGS



STONE WEEPERS

