

STANDARD FOR STORM SEWER INLET PROTECTION

Definition

A temporary barrier and settling facility installed at a storm sewer inlet.

Purpose

The purpose of storm sewer inlet protection is to intercept and retain sediment, thus preventing the entrance of sediment into the storm sewer system.

Conditions Where Practice Applies

1. Contributing drainage area is 3 acres or less.
2. A storm sewer or the outlet channel of a storm sewer needs protection from sediment.
3. Traffic will not destroy or cause constant maintenance of the storm sewer inlet protection.
4. A traffic hazard will not be created.
5. A flooding problem will not be created.

Water Quality Enhancement

The primary benefit to water quality is the removal of sediment from stormwater runoff prior to entering the stormsewer system. As an added benefit, other floatable debris, such as vegetative matter and litter may also be filtered out of the runoff.

Design Criteria

The following applies to all methods of storm sewer inlet protection:

1. Must slow the storm water, provide the coarse sediment particles a chance to settle, and provide an area to retain the particles that have settled.
2. In all cases, inlet protection should not completely close off the inlet. Provision must be made to allow stormwater to overflow or bypass filter
3. The protection device will be designed to capture or filter runoff from the 1 year, 24 hour storm event and shall safely convey higher flows directly into the storm sewer system.

Other methods that accomplish the purpose of storm sewer inlet protection may be used if approved by the Soil Conservation District.

Inspections shall be frequent. Maintenance, repair, and replacement shall be made promptly, as needed. The barrier shall be removed when the area draining toward the inlet has been stabilized.