**BMP C220**
**Storm Drain Inlet Protection**

# What is the purpose?

Inlet protection prevents mud from washing into the storm sewer. Mud and debris can cause maintenance issues for the storm sewer system and degradation of stream water quality and fish habitat.

# Where should it be used?

Use storm drain inlet protection at inlets that are operational before permanent stabilization of the disturbed drainage area. Provide protection for all storm drain inlets downslope and within 500 feet of a disturbed or construction area.

Also consider inlet protection for lawn and yard drains on new home construction. These small and numerous drains coupled with lack of gutters in new home construction can add significant amounts of sediment into the roof drain system.

Table 4.2.2 in the Stormwater Management Manual lists several options for inlet protection. All of the methods for storm drain inlet protection tend to plug and require a high frequency of maintenance.

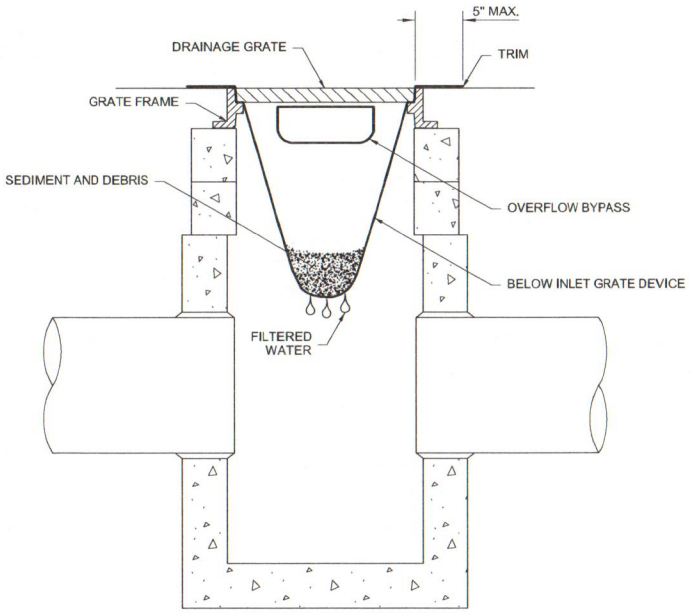
# Installation/Maintenance Requirements?

The City of Centralia Standard Detail for catch basin inlet protection is on the reverse side of this handout. If you chose to use one of the other options listed in Table 4.2.2 please contact Engineering for prior approval.

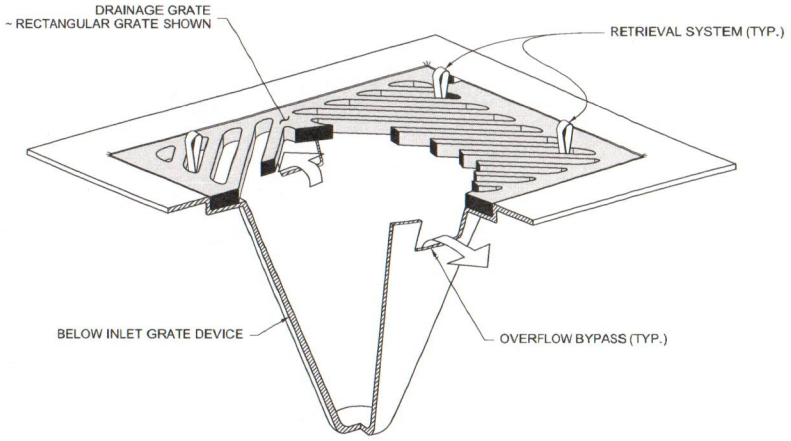
Inspect catch basin filters frequently, especially after storm events. Clean and replace clogged inserts. For systems with clogged stone filters: pull away the stones from the inlet and clean or replace. An alternative approach would be to use the clogged stone as fill and put fresh stone around the inlet.

*NOTES:*

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).




*SECTION VIEW*
NOT TO SCALE




*ISOMETRIC VIEW*

| STD. PLAN NO. | APPROVED BY | REVISED DATE | CITY OF CENTRALIA |
|---|---|---|---|
| 90-6 | CITY ENGINEER | 06/2017 | STORM DRAIN INLET PROTECTION |