

ITEM 209.11 **11- INLET FILTER SEDIMENT CONTROL FOR NEW CATCH BASINS**

ITEM 209.12 **11- INLET FILTER SEDIMENT CONTROL FOR EXISTING CATCH BASINS**

DESCRIPTION

This work shall consist of installing, maintaining, and removing the sediment control filters as shown on the plans for all existing and proposed drainage structures shown in the contract documents.

Inlet filters, consisting of welded mesh and geotextile fabric, shall be installed to control sedimentation at new inlet drainage structures. Inlet filters of geotextile fabric alone shall be installed to control sedimentation at existing inlet drainage structures.

MATERIALS

The materials used to construct the sediment control filters as shown in the details and in the contract documents shall meet the requirements of the following:

The filter fabric shall conform to the requirements specified in §737-01A.
Geotextile Bedding.

The 150 mm x 150 mm wire mesh used to support the silt protection screening shall be steel wire cloth with a diameter of 2.0 mm.

Coarse aggregate shall be Size Designation 1A in accordance with §703-02
Coarse Aggregate.

CONSTRUCTION DETAILS

All construction of the sediment control filters shall be done in accordance to the specifications, details and A. O. B. E.

For new inlet structures, welded steel wire mesh shall be molded around the inlet frames and grates, or inlet structures, and extend a minimum of 150 mm down each side of the new structures. Geotextile fabric shall then be secured to the welded wire mesh. Coarse aggregate Size Designation 1A shall be placed against the inlet structures to hold the inlet filter in place.

For existing inlet structures, geotextile fabric shall be placed under the grates, over the curb pieces and extend a minimum of 150 mm beyond. Coarse aggregate Size Designation 1A shall be placed behind each curb piece and on the geotextile fabric to secure the fabric in place.

The Geotextile Filter Material shall be attached to the wire frame by using wire ties. The ties shall be placed every 300 mm on center A. O. B. E.

The purpose of the coarse aggregate will be to hold the filtering system in place and divert the runoff that occurs along the curb into the drainage grate. The placement of the coarse aggregate shall be done at the same time that the filtering system is installed.

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The installation of the sediment control filters shall be done as soon as any excavation is started on the job that could result in erosion runoff into the existing or proposed drainage system and A. O. B. E.

It shall be the Contractor's responsibility to inspect the basins weekly and after each rainfall. The Contractor shall be required to clean all sediment that is accumulated in the drainage grate. The filtering system shall be cleaned by using methods approved by the Engineer.

The sediment material that is removed from the drainage grate shall be removed from the site. All material that accumulates shall be disposed of by the Contractor in accordance with any State and Federal requirements at the time of removal. The silt protection screening shall then be reinstalled in the same basin unless ordered to be disposed of by the Engineer. In the event that any part of the silt protection screening is determined unusable, the Contractor shall reconstruct or refurbish the silt protection at no additional cost to the State.

Inlet Filters shall be removed the same day as scheduled paving operations.

METHOD OF MEASUREMENT

The work will be measured as the number of inlet filter sediment control units that are installed.

BASIS OF PAYMENT

The unit price bid for each inlet filter sediment control unit shall include the cost of equipment, labor, materials, installation, cleaning and removal necessary to complete the work. The placement of the coarse aggregate shall be included in this item. The Contractor will be paid 50% of the bid price upon the installation of the silt protection screening units and the remaining 50% upon the removal of the units when no longer needed as determined by the Engineer.