

**DESCRIPTION**

This work consists of furnishing, installing, maintaining and removing field basin silt diaper at the locations shown on the plans or where directed by the Engineer, in accordance with the requirements indicated herein.

**MATERIALS**

The following material shall be used in the fabrication of the silt diaper:

**Reinforcing Wire:** 50 mm x 50 mm PVC coated or galvanized steel 14 gauge wire fencing.

**Geotextile Fabric:** shall conform to the requirements specified in §737-01C. Geotextile Drainage.

**Stone fill:** equal to (light) mix meeting the requirements of §620-2.02.

**Wire Staples:** shall be #11 gauge wire and between 150 mm to 210 mm long.

**CONSTRUCTION DETAILS**

The Contractor shall place the field basin silt diaper in accordance to the specifications and details.

The one piece geotextile filter material shall be attached to the wire fence by using wire ties. The ties shall be placed evenly 0.3 m on center. The Contractor has the option either to staple the ground cloth (Geotextile) fabric to the ground or use the stone blend.

The purpose of the stone will be to act as a pre-filtering agent and hold to the filtering fabric in place and to prevent the fabric from moving. If staples are used to secure the Geotextile to the ground, they shall be placed every 450 mm.

The Contractor shall determine the height at which the relief drain holes are to be cut into the vertical section of the cylinder to which ponded water will drain.

The installation of the fabric basin silt diaper shall be done as soon as any excavation is started on the job and could result in erosion runoff into the existing or proposed drainage system and as ordered by the Engineer.

It shall be the Contractor's responsibility to inspect the basins weekly and after each rainfall. The Contractor shall be required to clean and remove all sediment that is accumulated in the field basin silt diaper. The filtering system shall be cleaned by using methods approved by the manufacturer.

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 on the 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 screening at no

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additional cost to the State. The field basin silt diaper shall be removed after turf has been established or as ordered by the Engineer.

**METHOD OF MEASUREMENT**

The work will be measured as the number of fabric basin silt diaper units that are installed.

**BASIS OF PAYMENT**

The unit price bid for each fabric basin silt diaper unit shall include the cost of equipment, labor, materials, installation, cleaning and removal necessary to complete the work. The Contractor will be paid 50% upon the installation of the fabric basin silt diaper and the remaining 50% upon the removal of the units when no longer needed as determined by the Engineer.