

ITEM 10209.0510 M - TEMPORARY SILT DIKES

DESCRIPTION

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

MATERIAL

Temporary silt dikes shall be triangular-shaped, having a height of at least 200mm - 250 ± 20mm in the center with equal sides and a 45mm - 610 ± 20mm base. The triangular-shaped inner material shall be urethane foam. The outer cover shall be a woven geotextile fabric placed around the inner triangular plane and allowed to extend beyond both sides of the triangle 610mm - 920 ± 20mm.

CONSTRUCTION DETAILS

The Contractor shall place the temporary silt dikes in accordance to the specifications, details and AOB E.

Standard length of each temporary silt dike will be indicated on the plans. The dikes shall be attached to the ground with wire staples. The staples shall be No. 11 gauge wire and be at least 150mm - 210mm long. Staples shall be placed as indicated on the installation detail.

The geotextile filter material shall be attached to the triangular frame by using wire ties or staples. The ties shall be placed evenly 0.3m on center.

The filter fabric shall conform to the requirements of Subsection 207-2 and shall be of the type appropriate for Geotextile Bedding.

The Contractor shall determine the height at which the temporary silt dikes shall be installed as shown in the contract plans and specifications and standard details.

Installation:

1. The Contractor shall place the temporary silt dikes on a flat surface.
2. Place temporary silt dikes into ditch, keeping excess fabric extended up and down stream of the dam and trenches into the ground as shown in the detail.
3. A minimum of 160mm overlap between end sections shall be required should the width require multiple temporary silt dikes to be installed. The overlapped end sections shall be connected with wire wraps or staples every .3m on center.

The installation of the temporary silt dikes shall be done as soon as any excavation is started on the job.

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

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The sediment material that is removed from the temporary silt dikes 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 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 temporary silt dikes at no additional cost to the State. The temporary silt dikes shall be removed after turf has been established or AOB.

METHOD OF MEASUREMENT

The temporary silt dike will be measured by the linear meter in place as directed by the Engineer.

BASIS OF PAYMENT

The unit price bid for each temporary silt dike 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 temporary silt dike and the remaining 50% upon the removal of the units when no longer needed as determined by the Engineer.