

ITEM 10209.0511 M - TEMPORARY SILT BARRIER

DESCRIPTION

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

MATERIAL

Temporary silt berm panels shall have a height of at least 250mm and 1.0 meters in length. The panel material shall be covered with a UV resistant High Density Polyethylene coating. The wire mesh of the panel shall have a thickness of 4mm - 6mm.

The filter fabric shall conform to the requirements of Subsection 612-2 and shall be of the type appropriate for biodegradable usage.

CONSTRUCTION DETAILS

The Contractor shall place the temporary silt barrier in accordance to the manufacturer's specifications, and details, or otherwise ordered by the Engineer.

Standard length of each temporary silt berm will be indicated on the plans. The barrier shall be attached to the ground with "M" pins. The pins shall be at least 530mm - 630mm long. Pins shall be placed as specified by the manufacturers specification.

The geotextile filter material shall be pinned to the ground using 200mm wire staples. The staples shall be placed evenly 300mm on center.

The Contractor shall determine the height at which the temporary silt barrier shall be installed in the areas, unless other wise shown in the contract plans, specifications, standard details and as ordered by the Engineer.

Installation:

1. The Contractor shall place the temporary silt barrier on a flat surface as indicated on the plans and AOB E.
2. Lay the erosion mat strip across the ditch at each silt barrier location. The erosion mat should extend up the side slope and back slope the length of the panels.
3. Starting at the toe of the back slope or side slope, place temporary silt barrier along the center of the erosion mat and pin into the ground as shown in the detail using the "M" pins.
4. A minimum of 50mm overlap between end sections shall be required should the width require multiple temporary silt barriers to be installed. The overlapped end sections shall be connected with the "M" pins.
5. From the installed panel, extend the second panel, overlapping the first panel at the toe, up the side or back slope. Place the "M" pin over both sets of panels at the toe and drive the pin into the ground.

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

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

The sediment material that is removed from the temporary silt barrier 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 barrier is determined unusable, the Contractor shall reconstruct or refurbish the temporary silt barrier at no additional cost to the State. The temporary silt barrier shall be removed after turf has been established or As Ordered By The Engineer.

METHOD OF MEASUREMENT

The temporary silt barrier 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 barrier unit shall include the cost of equipment, labor, materials, installation, cleaning and removal necessary to complete the work. The Contractor will be paid 25% upon the installation of the temporary silt barrier, 60% to maintain the barrier during the contract, paid on monthly payments based on the amount of work done, and the remaining 15% upon the removal of the units when no longer needed as determined by the Engineer.