

## ITEM 209.1520 09 - TEMPORARY SUMP PIT

### DESCRIPTION

This work shall consist of constructing, maintaining and removing a temporary sump pit. The temporary sump pit will trap and filter sediment laden water for pumping to a suitable discharge area.

### MATERIALS

Perforated 300 mm diameter corrugated metal or polyvinyl chloride pipe.

50 mm clean aggregate as shown in the plans.

\*Filter cloth meeting the requirements of Table 737-01C of the Standard Specifications

\*6 mm to 12 mm hardware cloth.

\*Only needed if water is to be discharged into a storm drainage system.

### CONSTRUCTION DETAILS

The temporary sump pit shall be constructed by excavating a pit, installing a vertical standpipe in the center to collect filtered water and backfilling with 50 mm clean aggregate as shown in the plans.

Water shall be pumped from the center of the pipe to a suitable discharge area, such as a stabilized area or portable sediment tank AOB. If water from the temporary sump pit is to be pumped directly into a storm drain system, filter cloth shall be wrapped around the standpipe to ensure clean water discharge. Water that is visibly turbid or that is known to contain other contaminants shall not be discharged into a storm drain system. To increase the rate of water seepage into the standpipe, wrap 6 mm to 12 mm hardware cloth around and secure to the standpipe prior to attaching filter cloth.

Take measures so as not to cause any erosion at any point of discharge.

The temporary sump pit shall be removed when permanent stabilization measures are in place and temporary measures are no longer needed AOB. Removal includes all materials listed in the MATERIALS section as well as any sediment or other deleterious materials. After removal, the pit shall be filled with suitable material to the elevation of the original ground, or as shown on the plans.

**Maintenance:** The Contractor shall be responsible for inspecting and reconstructing the temporary sump pit. The temporary sump pit shall be reconstructed when sediment has

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accumulated to ½ the design depth of the sump or AOE. The pit shall be reconstructed by totally removing all sediment, stone and filter cloth. The Contractor shall properly dispose of these materials in accordance with any State and Federal requirements. The vertical standpipe shall be salvaged for use in reconstruction of the sump pit.

All sump pits shall be inspected and maintained during the life of the project. Maintenance and inspection shall continue until permanent stabilization measures are in place and the temporary control measures are ordered to be removed by the Engineer.

**METHOD OF MEASUREMENT**

The work will be measured as the number of sump pits that are satisfactorily installed.

**BASIS OF PAYMENT**

The unit price bid shall include the cost of all equipment, labor, excavation and materials needed for the installation, operation, maintenance and removal of each temporary sump pit necessary to complete the work. The Contractor will be paid 80% of the bid price upon the installation of the temporary sump pit. The remaining 20% will be paid upon the removal of the temporary sump pit and properly backfilling to the elevation of the original ground, or as shown on the plans.