

ITEM 01603.96 M - TEMPORARY PIPE SLOPE DRAIN

DESCRIPTION:

This work shall consist of furnishing, installing, maintaining and removing temporary pipe slope drains of the type, size and locations as shown in the Contract Documents or where directed by the Engineer.

MATERIALS:

Materials for temporary pipe slope drains shall conform to the following requirements and as directed by the Engineer.

Pipe. The pipe shall be flexible corrugated polyethylene meeting the requirements of Subsection 706-13 of the Standard Specifications except that the pipe will not be perforated.

Pipe Coupling. Couplings shall be appropriate for the pipe and as recommended by the manufacturer.

Pipe End Sections. End sections shall be either steel or polyethylene sized appropriately to seal tightly around the pipe.

Posts. Posts shall be either hardwood 50 mm x 50 mm (nominal) or steel "T", "L", or "U" shaped with a minimum weight of 2 kg per meter. Posts shall be a minimum of 1.2 meters long.

Fasteners. Steel wire, #14 to #16 gauge, either coated or uncoated.

CONSTRUCTION DETAILS:

The temporary pipe slope drain shall be placed to convey concentrated water flows down erodible slopes. They shall be utilized until final grades are reached, stabilized and permanent water conveyance measures are in place. The temporary pipe slope drains shall be located as shown in the Contract Documents and as directed by the Engineer.

The inlet (end section) shall be anchored to the top of the slope away from the edge of the slope. The pipe shall be fastened to the end section and laid down the slope to a designated out fall area. The pipe shall be anchored to the slope by driving posts tightly against and to either side of the pipe. Several loops of wire shall be wrapped from one post, over the pipe to the opposite post.

Earth berms at the top of the slope shall be formed to direct water into the pipe. A minimum of 1.2 meters of the outlet end of the pipe shall be at a 1% slope or less to act as a water flow energy dissipator.

METHOD OF MEASUREMENT:

The quantity of work to be paid for under this item will be the number of meters (as measured along the center line of the pipe and end section) of temporary pipe slope drain installed in accordance with the specifications, Contract Documents or where directed by the Engineer.

BASIS OF PAYMENT:

The unit price bid per meter of temporary pipe slope drain shall include the cost of furnishing all labor, materials, tools and equipment necessary to satisfactorily complete the work.

Relocation of a temporary pipe slope drain from one location to another as directed by the Engineer shall be considered as a new location and shall be separately paid.

Fifty percent (50%) of the price bid shall be paid after satisfactory installation of the temporary pipe slope drain. The remaining fifty percent shall be paid after complete removal of the temporary pipe slope drain except that any unit or length not properly maintained shall be deducted from the final payment on a prorated basis.