

ITEM 15603.87XX M - DRAINAGE PIPE, OPTIONAL, (FOR DRIVEWAYS, GRAVEL AND DIRT SURFACED ROADWAYS-FILL HEIGHT LESS THAN 300 mm)

DESCRIPTION

Under these items the Contractor shall excavate for, provide the necessary measures for worker safety, furnish, install, and backfill drainage pipes of the indicated sizes and shapes where shown on the plans or where indicated by the Engineer. The type of pipe material selected shall be at the Contractor's option.

MATERIALS

The type of pipe materials shall meet the requirements given below. The dimensions given in the pay items for pipe-arches are not meant to exclude reinforced concrete horizontal elliptical pipe with substantially close conforming dimensions.

Reinforced Concrete Pipe	706-02
Reinforced Concrete Elliptical Pipe	706-03
Corrugated Steel Pipe	707-02

The pipe class or gauge shall be as indicated in Table 1.

CONSTRUCTION DETAILS

The Construction Details of subsection 603-3 shall apply. Only one type of pipe material will be allowed in the same run of pipe.

METHOD OF MEASUREMENT

Pipe will be measured in meters along the bottom centerline as designated on the plans and specifications or as directed by the Engineer in writing.

When twin round pipes are substituted for pipe-arches, only one of the installed pipes will be measured for payment.

BASIS OF PAYMENT

The accepted quantities of pipe installed under this item will be paid for at the contract priced bid which shall include the cost of furnishing all labor, materials and equipment necessary to complete the work. The cost of any required excavation, measures necessary to protect workers, the installation, the granular fill and backfill, and applying water for compaction shall be included in the price for this item. In addition, when the contractor elects to provide twin pipes,

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the unit price bid shall also include the cost of the unmeasured twin pipe.

Payment will be made under:

<u>ITEM NO.</u>	<u>ITEM</u>	<u>PAY UNIT</u>
Item 15603.8701 M	Drainage Pipe, Optional 300 mm Diameter (For Driveways, Gravel and Dirt Surfaced Roadways-Fill Heights Less Than 300 mm)	Meter
Item 15603.8702 M	Drainage Pipe, Optional 375 mm Diameter (For Driveways, Gravel and Dirt Surfaced Roadways-Fill Heights Less Than 300 mm)	Meter
Item 15603.8703 M	Drainage Pipe, Optional 450 mm Diameter (For Driveways, Gravel and Dirt Surfaced Roadways-Fill Heights Less Than 300 mm)	Meter
Item 15603.8704 M	Drainage Pipe, Optional 525 mm Diameter (For Driveways, Gravel and Dirt Surfaced Roadways-Fill Heights Less Than 300 mm)	Meter
Item 15603.8705 M	Drainage Pipe, Optional 600 mm Diameter (For Driveways, Gravel and Dirt Surfaced Roadways-Fill Heights Less Than 300 mm)	Meter
Item 15603.8708 M	Drainage Pipe, Optional 610 X 460 mm (For Driveways, Gravel and Dirt Surfaced Roadways-Fill Heights Less Than 300 mm)	Meter
Item 15603.8709 M	Drainage Pipe, Optional 710 X 510 mm (For Driveways, Gravel and Dirt Surfaced Roadways-Fill Heights Less Than 300 mm)	Meter

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TABLE 1 - PIPES TO BE USED WHEN COVER IS LESS THAN 300 mm									
Size Specified mm	Reinforced Concrete §706-02			Reinforced Concrete Horizontal Elliptical §706-03			Corrugated Steel §707-02 Gauge		
Pipe-Arch	No. of Pipes	Dia. (mm)	Class	No. of Pipes	Dia. (mm)	Class	No. of Pipes	Dia. (mm)	Gauge
610 x 460	2	375	IV	1	490 x 770	IV	2	375	12
710 x 510	2	450	IV	1	490 x 770	IV	2	450	12
Round				Not Applicable					
300	1	300	IV				1	300	12
375	1	375	IV				1	375	12
450	1	450	IV				1	450	12
525	1	525	IV				1	525	12
600	1	600	IV				1	600	12

1. Corrugated pipes for drains up to 12 m long shall be continuous pipe without joints. For drains longer than 12 m, joints shall not be located in the wheel paths.
2. Coupling devices for corrugated steel pipe shall be 14 gauge.