

ITEM 0102331

8" REINFORCED CONCRETE DRIVEWAY RAMP

DESCRIPTION

Item shall include saw-cutting and removing existing concrete ramp and constructing a reinforced concrete driveway ramp on a processed traprock foundation in the locations and to dimensions and details shown on the plans, or as ordered by the Engineer all in accordance with these specifications.

REFERENCED ITEMS

Items 0100101, 0100102 and 0102101

REQUIRED SUBMITTALS

Material Certificate of Compliance:

Submit 5 copies of material certificate of compliance for concrete in accordance with the contract general requirements.

MATERIALS

1. **FOUNDATION**

Completed foundation shall be 8" below and parallel to finished grade. Foundation and backfill of header shall conform to requirements specified in Item 0102101.

2. **CONCRETE**

Concrete shall conform to the requirements as specified under Item 0102101. Air entrainment shall be 6 ± 1 percent. Test for air content of fresh concrete shall be made during construction. Because of the effects of mixing and vibration, samples for air content shall be taken from concrete after it has been placed by qualified technicians per ASTM C-173.

CONSTRUCTION METHODS

All provisions of Item 0102101 shall apply to this item except as follows:

1. **EXCAVATION**

Excavation shall be 20" below and parallel to finished grade and maximum depth of removal of soft-yielding material shall be 32" deep. Excavation of header for driveway shall be 36" below finished gutter grade, 18" in width. Cutting and removing of the existing curb, combination curb and gutter, sidewalks or reinforced concrete walk shall be part of this excavation. Removal of existing street pavement and base shall be as specified in Item 0100101 or 0100102 under excavation.

a. **Forms**

Forms shall be 8" deep. Forms for header shall be wood; 2" X 18", mortar-tight and securely braced, provided the inside face of the foundation is reasonably straight and true a form will not be required, Should a form be required, it shall be so constructed so it can be removed during or immediately after placement of the header concrete.

b. **Wire Mesh Reinforcing and Reinforcing Bars**

Wire mesh reinforcing shall be welded steel, No. 8 wire spaced 6" X 6" both ways. All 8" concrete drives shall be reinforced; the mesh shall be lapped 8" and secured with wire ties not less than 24" on centers to prevent displacement. The concrete shall be struck off to a reasonable true-grade prior to placing the wire mesh. Wire mesh, if supplied in rolls, shall be cut to the proper size and flattened out prior to placement in the concrete. Wire mesh reinforcing shall be bent at the gutter and 2" inside the front face of the header.

c. **Placing of Concrete**

Concrete in the header shall be placed at the same time as the concrete in the driveway ramp.

d. **Joints**

Transverse and longitudinal dummy-joints 1" deep shall be placed in the surface of the driveway apron as shown on the typical detail plan and according to Item 0102101. Transverse doweled expansion joints shall be placed in the 8" walk. Doweled expansion joints shall be placed between 8" drive and 5" walk, if required by the engineer. In locations where a driveway apron is being constructed against an

existing cement concrete walk that is in good condition and allowed by the Engineer to remain, the existing walk shall be drilled and 5/8" round by 12" dowels spaced 24" on center shall be grouted in to tie in the new concrete, a 1/2" expansion material shall also be used in the joint. Expansion joint material 1/2" thick by the depth at the curb shall be placed between the drive shoulder and the existing curb. All costs associated with the transverse expansion and dummy joints and dowels shall be included in the cost of the 8" reinforced driveway ramp.

METHOD OF MEASUREMENT

This work will be measured for payment by the actual number of square feet of completed and accepted 8" reinforced concrete driveway ramp.

BASIS OF PAYMENT

This work will be paid for at the contract unit price per square foot for "8" REINFORCED CONCRETE DRIVEWAY RAMP", complete in-place, which price shall include all transverse or longitudinal saw-cutting, transverse and longitudinal expansion joints, dowels, excavation, backfill, loam and seeding at disturbed areas, disposal of surplus material, processed traprock base, equipment, tools, and all material and labor incidental thereto.

<u>PAY ITEM</u>	<u>DESCRIPTION</u>	<u>PAY UNIT</u>
0102331	8" Reinforced Concrete Driveway Ramp	SF