

**ITEM 010200**

**Item 0102001 - BITUMINOUS CONCRETE DRIVEWAY**

**Item 0102002 - BITUMINOUS CONCRETE DRIVEWAY RAMP**

**DESCRIPTION**

This item shall include removal of existing bituminous concrete driveway and driveway ramp, excavation for, furnishing and constructing a 12" processed traprock foundation and new bituminous concrete driveway and driveway ramp to line and grade, backfilling and seeding where necessary.

**REFERENCED ITEMS**

Items 0102802 and 0103703

**REQUIRED SUBMITTALS**

None

**MATERIALS**

1. **FOUNDATION**

All foundation under bituminous concrete paving shall be processed traprock conforming to Item 0103703.

2. **BITUMINOUS MIX**

Bituminous concrete mixture shall be as specified in the State of Connecticut, Department of Transportation, Standard Specification for Roads, Bridges and Incidental Construction Form 816 as follows: Bituminous concrete materials - Section M.04.05 Class 2; Transportation of mixtures, placing of mixtures, compacting and protection of the work - Section 4.06.

**CONSTRUCTION METHODS**

1. **EXCAVATION**

Excavation for bituminous concrete driveway and driveway ramp shall be 15" below and parallel to the finished grade of the proposed driveway or ramp. Excavation shall extend 3" minimum or 6" maximum outside edges of proposed driveway or ramp. Cutting and removal of existing curb,

combined curb and gutter or driveway ramp shall be part of this excavation. Ledge rock encountered within 15" of finished grade shall be removed to 15" below finished ramp grade by use of suitable air tools only. Soft and yielding material below the 15" base line shall be removed, with a maximum depth of removal of 32" below finished grade.

Excavation for bituminous paving between curb and walk on new foundation as determined by the Engineer, shall be 15" below and parallel to the finished grade, and shall extend a minimum of 3" beyond any outside edge. After completion of excavation for all bituminous paving and prior to placing of foundation material the sub-grade shall be compacted with at least two (2) passes of a motor driven vibratory compactor. No excavated material shall be salvaged for reuse on the project except suitable loam and only if ordered by the Engineer. No broken flagstone, cement concrete, curbing or bituminous material shall be used in the foundation. Saw cutting of existing bituminous concrete surface will be measured separately and paid for under Item 0102802.

**2. FOUNDATION**

The processed foundation material shall be placed in 6" layers the full width of the excavation each of course shall be compacted to the satisfaction of the Engineer, with at least three (3) passes of a motor driven vibratory compactor. (Water shall be added to each course as required for proper compaction.) The completed foundation shall be true to line and cross section, 3" below for ramps and driveways and parallel to finished grade. The trench resulting from curb removal shall be backfilled with processed material as specified in Item 0103701.

**3. LAYING THE BITUMINOUS MIX**

Bituminous concrete paving for ramps and driveways shall be constructed of two 1 1/2" courses of Class 2, for a total compacted thickness of 3". The edge of all existing cement concrete, bituminous paving and curbing abutting the new paving shall be painted with a coat of hot asphalt, just before placing the new paving. The mixture shall be laid only when the foundation dry, the air temperature is at least 50 F in the shade and when weather conditions are, in the opinion of the Engineer, suitable for the work intended. No bituminous concrete shall be placed between October 15th and April 15th without written permission of the Engineer. The mixture shall be dumped on an approved steel plate at a temperature of not less than 250 F, it shall be immediately distributed into place and spread to uniform loose layer of such

depth to give the required thickness after compaction. Compaction of each course shall be by a static roller weighing not less than one (1) ton, and by use of hand tamps on edges and areas inaccessible to the roller. The contractor shall have sufficient shovels, rakes, lutes, brooms, and all steel tamps (min. weight 36 lbs.). Joints in the bituminous paving shall be kept to a minimum, should any be required the previously placed paving shall be cut back 3" to a neat true line and the joint painted with a coat of hot asphalt. The finished bituminous paving shall match the existing curb, walk or drive, it is laid against the edge of the new paving against existing curb, walk or driveway shall be sealed with hot asphalt.

#### 4. PAVEMENT AND SEEDING REPAIRS

Street paving repairs and seeding repairs shall be as specified below:

##### a. Pavement Repair

The following applies where the entire roadway is not to be resurfaced. The edge of the pavement shall be trimmed to neat straight lines not less than 12" from the face of the ramp and shall be painted with hot asphalt cement. The face of the curb below gutter grade shall also be painted with hot asphalt cement of viscosity grade AC-20.

Hot mix bituminous concrete of the mix approved by the Engineer, shall be furnished and placed in two layers to repair the pavement. The bottom layer shall be thoroughly compacted to a smooth surface matching existing pavement and using all steel tamps or a motor driven vibratory compactor with water dispersing equipment designed for use on bituminous concrete. The joint between the patch and the existing pavement shall be sealed with hot asphalt cement.

##### b. Repair Behind Curb

Where there is not walk directly behind the curb, the top 6" of disturbed area shall be backfilled with either existing usable soil or new top soil which shall be natural, friable, fertile, productive soil of a good loam type containing at least 2% decayed organic matter. It shall be free from stones, roots, sticks, clods or other extraneous material, and contain no toxic material.

Where sod has been saved in good condition, the sod shall be replaced to match the top of curb and existing ground.

Where no sod is available, and seeding is required, the loam shall be graded to match the top of curb and existing ground and grass seed shall be evenly spread at the rate of one (1) pound of seed per 200 square feet, raked in and lightly tamped. The seed shall conform to the following mixtures

Kentucky Blue Grass	25% by Weight
Creeping Red Fescue	35% by Weight
K 31 Tall Fescue	30% by Weight
Domestic Rye Grass	5% by Weight
Alsike Clover	5% by Weight

**METHOD OF MEASUREMENT**

Measurement for "Bituminous Concrete Driveway" and "Bituminous Concrete Driveway Ramp" shall be by the actual number of square feet completed and accepted.

**BASIS OF PAYMENT**

This work will be paid for at the contract unit price per square feet of "BITUMINOUS CONCRETE DRIVEWAY "or "BITUMINOUS CONCRETE DRIVEWAY RAMP " complete in place, including all material, equipment, tools, labor and work incidental thereto, including all excavating, backfill and processed traprock foundation.

<b><u>PAY ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PAY UNIT</u></b>
0102001	Bituminous Concrete Driveway	SF
0102002	Bituminous Concrete Driveway Ramp	SF