

ITEM 010240

Item 0102401 - 2" BITUMINOUS CONCRETE SURFACE ON NEW FOUNDATION

Item 0102402 - 3" BITUMINOUS CONCRETE SURFACE ON NEW FOUNDATION

Item 0102403 - 5" BITUMINOUS CONCRETE SURFACE ON NEW FOUNDATION

DESCRIPTION

This item shall include removing existing bituminous surface, excavating for, furnishing and placing a new 12" deep processed traprock foundation, furnishing material for and construction of new 2", 3" or 5" thick when compacted two course bituminous concrete surface, backfilling along the edges and seeding where necessary.

REFERENCED ITEMS

Items 0102801, 0103702, 010430, and 0106401

REQUIRED SUBMITTALS

None

MATERIALS

The material for the bituminous concrete mixture, formula for mix, mix tolerances and the control of mixtures shall conform to the requirements of Item 0104702.

In all other respects, bituminous concrete materials shall conform to the material requirements specified under Item 0104703.

Material requirements for processed traprock shall be as specified in Item 0103702.

CONSTRUCTION METHODS

1. EXCAVATION

Excavation to subgrade shall be 14" 15", or 17" as applicable, below finished grade. The subgrade shall be thoroughly compacted to the satisfaction of the Engineer before construction of the foundation, using a static roller weighing not less than 5 tons or a motor driven vibratory compactor. Saw cutting of the existing bituminous concrete surface shall be measured separately and be paid for under the applicable Item 0102802.

2. **FOUNDATION**

The foundation shall be constructed to the proper elevation in two courses. Both courses shall be of equal thickness unless otherwise specified. Each course being compacted as specified above, and graded parallel to finish grade.

3. **BITUMINOUS SURFACE**

The mixture shall be laid only when the surface to be covered is dry, the air temperature is at least 50 degrees F in the shade, and when weather conditions, in the opinion of the Engineer, are suitable. The mixture shall be dumped on an approved steel plate at a temperature of not less than 250 degrees F; it shall be immediately distributed into place and spread in a uniformly loose layer of such depth to give the required thickness after compaction. Compaction of the mixture shall be by a roller weighing not less than 5 ton; in area inaccessible to the 5 ton roller, a roller weighing at least one ton, a motor driven vibratory compactor or hand tamps shall be used.

The Contractor shall have sufficient shovels, rakes, lutes, brooms, and steel tamps, etc., to do the job. Kerosene, diesel fuel or other suitable solvents may be used to clean tools, provided that extreme care is exercised to prevent such solvents being spilled on or mixed into the bituminous concrete. Contractor shall ensure that all clean-up activities are performed in accordance with all applicable state and federal regulations. Adjacent existing bituminous surface shall be trimmed to a straight and true line, and edges shall be given a light paint coat of hot asphalt cement, viscosity grade AC-20 just prior to placement of new bituminous surface.

The edges of adjoining concrete walks, manholes and other structures shall be given a light paint coat of hot asphalt just prior to placement of new bituminous surface.

The surface of the joint between new bituminous concrete and existing bituminous surface shall be sealed with hot asphalt poured along the joint. After final compaction and sealing of joints a light uniform coating of Portland cement or limestone dust shall be laid over the surface of the new bituminous concrete.

The construction of 5" bituminous concrete surface shall be installed in two courses; a 3 1/2" base course of Class 4 premix bituminous concrete road base and a 1 1/2" surface course of Class 1 bituminous concrete. The base course shall conform to the requirements as specified in Item 0104401 for Premix Bituminous Concrete Road Base. The surface course shall conform to the criteria as listed above.

4. REPAIR ADJACENT SURFACES

Where necessary the Contractor shall backfill along the edges with topsoil that shall conform to the requirements of Item 0106401. The topsoil shall be graded to match the existing ground. Fertilizer, seed, lime and mulch, conforming to the material requirements of Item 0106401, shall then be applied in accordance with the Construction Methods of Item 0106401.

METHOD OF MEASUREMENT

This work will be measured for payment by the number square feet of 2", 3" or 5" thick bituminous concrete surface constructed complete and accepted.

BASIS OF PAYMENT

This work will be paid for at the contract unit price per square foot of 2", 3" or 5" BITUMINOUS CONCRETE SURFACE ON NEW FOUNDATION" complete and accepted, including all equipment, tools, labor, materials and incidental expenses.

| <u>PAY ITEM</u> | <u>DESCRIPTION</u> | <u>PAY UNIT</u> |
|------------------------|--|------------------------|
| 0102401 | 2" Bituminous Concrete Surface on New Foundation | SF |
| 0102402 | 3" Bituminous Concrete Surface on New Foundation | SF |
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