

**ITEM 010400**

**Item 0104001 - MILL EXISTING PAVEMENT TO REQUIRED DEPTH-CLASS A**

**Item 0104002 - MILL EXISTING PAVEMENT TO REQUIRED DEPTH-CLASS B**

**Item 0104003 - MILL EXISTING PAVEMENT TO REQUIRED DEPTH-CLASS C**

**Item 0104004 - MILL EXISTING PAVEMENT TO REQUIRED DEPTH-CLASS D**

**Item 0104005 - MILL EXISTING PAVEMENT TO REQUIRED DEPTH-CLASS E**

**Item 0104006 - MILL EXISTING PAVEMENT TO REQUIRED DEPTH-CLASS F**

**Item 0104007 - MILL EXISTING PAVEMENT TO REQUIRED DEPTH-CLASS G**

**Item 0104008 - MILL EXISTING PAVEMENT TO REQUIRED DEPTH-CLASS H**

**DESCRIPTION**

This work shall consist of the removal and satisfactory disposal of existing bituminous and/or Portland cement concrete pavement(s) to the depth(s) as indicated by a "MILLING" or "COLD PLANING" technique. All work shall be completed in conformity with the lines, grades, and cross-sections as shown on the plans, or as ordered by the Engineer. The planed surface shall provide a smooth riding surface free from gouges, continuous grooves, ridges, oil film and other imperfections of workmanship and shall have a uniform surface appearance ready for traffic or resurfacing upon completion.

**REFERENCED ITEMS**

Item 0107701

**REQUIRED SUBMITTALS**

None

**MATERIALS**

None

**CONSTRUCTION METHODS**

The equipment for planing and profiling of pavement surface shall be a commercially designed and manufactured power operated, track propelled, planing machine or a grinder capable of removing, in one pass, a layer of bituminous material six (6') feet in width, and a minimum depth of cut equal to four (4") inches. The equipment shall be self-propelled with sufficient power, traction and stability to maintain accurate depth of cut and slope. The equipment should also have the ability to provide variable depth of cut across the width of the planing equipment.

The machine shall be capable of accurately and automatically establishing profile grades (within  $\pm 1/8"$ ) along each edge of the machine by referencing from the existing pavement by means of a ski or matching shoe, or from an independent grade line. The machine shall have an automatic system for controlling grade elevation and cross slope.

The equipment shall have the means for self-loading the cuttings directly into a truck. All planing machinery shall be equipped with dust control devices to prevent any dust produced in the cutting operation from escaping into the air. The Contractor should have available an extra set of cutting teeth and the necessary tools and equipment to perform field adjustments and repairs. Contractor to supply water as required.

The equipment used to remove pavement materials from around manholes, catch basins, and other areas not accessible to the large machine shall be a smaller, specially designed commercial machine capable of performing work in a similar manner and character as the larger machine.

Sweeping equipment shall be a motorized self-loading power broom capable of adequately cleaning the recently milled pavement surface of all-foreign matter and debris.

Prior to beginning work the contractor shall meet with the inspector and carefully review the project noting all utility structures, limits of construction, phasing, and points of interest or concern. Adequate support vehicles and equipment such as trucks, sweepers, and refueling equipment shall be on site and available for use as required.

All traffic control devices such as signs, drums, barricades, etc. shall be in place as per the construction phasing plans, or in the absence of such plans as per the direction of the Engineer. Traffic police officers, if required by the engineer, shall be ordered in advance by the contractor and shall be located as required by the Engineer. Payment for traffic police officers if used will be made under Item 0107701.

Milling operations shall then commence with the existing bituminous surface being planed and profiled to the required depth, width, grade, and cross-section as required on the plans, or as ordered by the Engineer. After each pass of the machine, all loose matter and debris shall be cleaned and swept from the site.

After the work has progressed sufficiently, the contractor shall "MILL" or "COLD PLANE" the remaining portions of pavement around manholes, and catch basins, etc. so that these areas match the surrounding areas.

If the road is to remain open to traffic during the progression of work transverse drop-offs at the beginning or end of the limits of milling shall not exceed 2 inches. All longitudinal drop-offs between milled and existing surfaces shall be delineated at all times until paving as directed by the Engineer. All manholes, catch basins, drives and intersecting streets and other utility structures shall be ramped with bituminous concrete in conformance with the traffic phasing details. Payment for bituminous concrete used in this manner will be made under the appropriate contract Item.

Sweeping operations shall be performed concurrently as milling operations may permit. If construction operations dictate that paving operations be undertaken as a future construction activity, the contractor shall be required to re-sweep the milled pavement surface just prior to paving operations.

Unless otherwise noted on the plans, or ordered by the Engineer, all milled bituminous concrete material(s) shall remain the property of the City of Hartford. The Contractor shall transport the millings from the work site and dump this material(s) in stockpile location(s) within City limits, as directed by the Engineer. If the City does not want the material, it will become the property of the contractor and shall be removed and legally disposed of at his cost.

In all cases, the resulting final surface from "MILLING" or "COLD PLANING" operations shall be characterized by uniform, discontinuous longitudinal striations, or other uniform patterns and shall not be gouged or torn.

**METHOD OF MEASUREMENT**

This work will be measured for payment by the actual number of square yards (S.Y.) of milled pavement completed, accepted, and as computed by the Engineer.

**BASIS OF PAYMENT**

Payment for this work will be made under the appropriate classification and at the contract unit price per square yard for "MILL EXISTING PAVEMENT TO REQUIRED DEPTH". Said payment shall be considered full compensation for providing all equipment, labor, tools, materials, and incidental expense as specified to complete the work to the satisfaction of the Engineer.

<b><u>PAY ITEM</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>PAY UNIT</u></b>
0104001	Mill Existing Pavement to Required Depth Class A (1-1/2" Below Proposed Grade)	SY
0104002	Mill Existing Pavement to Required Depth Class B (3" Below Proposed Grade)	SY

0104003	Mill Existing Pavement to Required Depth Class C (5" Below Proposed Grade)	SY
0104004	Mill Existing Pavement to Required Depth Class D (Variable Depth 0" To 2")	SY
0104005	Mill Existing Pavement to Required Depth Class E (Variable Depth 0" To 4")	SY
0104006	Mill Existing Pavement to Required Depth Class F (1-1/2" Below Existing Grade)	SY
0104007	Mill Existing Pavement to Required Depth Class G (3" Below Existing Grade)	SY
0104008	Mill Existing Pavement to Required Depth Class H (5" Below Existing Grade)	SY