

## **ITEM 04402.8801 M - REMOVE AND REPAIR DEFECTIVE HMA PAVEMENT OVERLAY**

### **DESCRIPTION**

Under this item, the Contractor shall remove and repair deteriorated portions of a hot mix asphalt (HMA) pavement overlay. Repair areas shall be indicated by the Engineer.

### **MATERIALS**

Repair materials shall meet the requirements of the following items:

Item 402.018901 M - True and Leveling F9, Superpave HMA, 80 Series Compaction.

Item 407.01 M - Tack Coat.

### **CONSTRUCTION DETAILS**

The Contractor shall remove defective HMA to a depth of 100 mm from the original top of pavement (before production milling) using hammers meeting the requirements of subsection 580-3.02 or a milling machine. If chipping hammers are used, the Contractor shall first sawcut the HMA full depth around the perimeter of the designated repair area. Milling machines shall be equipped with a means to suppress airborne particles. The Contractor shall dispose of any defective HMA removed in a manner acceptable to the Engineer.

The Contractor shall clean and dry all surfaces exposed from milling. The cleaned surfaces shall be free of dust and debris to the satisfaction of the Engineer. The Contractor shall uniformly apply tack coat to these surfaces. Tack coat and HMA repairs shall be placed only when the ambient and surface temperatures are 7 degrees C or greater and surfaces are dry. After the surfaces have been tack coated, the HMA shall be placed and compacted in the repair areas. The minimum HMA placement temperature shall be 120 degrees C.

If the total patch depth is greater than 75 mm, the HMA shall be compacted in lifts of approximately equal thickness, with a maximum lift thickness of 75 mm. When compacted in lifts, the lower lifts shall be thoroughly compacted with mechanical tampers as directed by the Engineer. The top lift shall be thoroughly compacted with a small vibratory roller approved by the Engineer or by a drum roller meeting the requirements of subsection 402-3.04. The HMA shall be slightly overfilled for compaction. The resulting compacted patch shall be dense, smooth, and no more than 6 mm above the existing surface.

### **METHOD OF MEASUREMENT**

The quantity to be measured under Item 04402.8801 M shall be the number of square meters of existing HMA overlay removed and repaired. The minimum area of an individual repair shall be 0.1 square meters.

### **BASIS OF PAYMENT**

The unit price per square meter for Item 04402.8801 M shall include the costs of all labor and equipment needed to complete the work including tack coat and HMA.