

**ITEM 04403.880101 M - REMOVE AND REPAIR DEFECTIVE HMA PAVEMENT OVERLAY**

**ITEM 04403.880201 M - REMOVE AND REPAIR DEFECTIVE PCC BENEATH HMA PAVEMENT OVERLAY**

**DESCRIPTION**

1. Remove and Repair Defective HMA Overlay. Under this item, the Contractor shall remove and repair deteriorated portions of Hot Mix Asphalt (HMA) pavement overlay. Repair areas shall be indicated on the contract plans, or as ordered by the Engineer.
2. Remove and Repair Defective PCC Beneath HMA Pavement Overlay. Under this item, the Contractor shall remove and repair deteriorate portions of the Portland cement concrete (PCC) pavement that have been exposed through the use of Item 04403.880101 M. Repair areas shall be determined by the Engineer.

**MATERIALS**

Repair materials shall meet the requirements of the following items:

Superpave Hot Mix Asphalt - Truing and Leveling Course.....	18403.218902 M
Tack Coat.....	407.01 M

**CONSTRUCTION DETAILS**

The Contractor shall remove defective HMA pavement using chipping hammers meeting the requirements of §580.3.02 or by cold milling meeting the requirements of §490. If the depth of existing asphalt is 125 mm or less, removal of the asphalt shall be to the exiting PCC surface. If the depth of existing asphalt is greater than 125 mm, a maximum of 100 mm of the asphalt shall be removed. If chipping hammers are used, the Contractor shall first saw cut the HMA pavement full depth around the perimeter of the designated repair area. Milling machines shall be equipped with a means for controlling dust and other particulate matter.

All removed material including that removed by milling or other means shall be immediately removed from the repair surface. When working adjacent to traffic, the Contractor shall prevent materials from spilling on the traveled way.

The Engineer shall inspect exposed PCC surfaces to determine the need to remove and repair deteriorated PCC. If the Engineer determines that areas of the exposed PCC surface are deteriorated, the Contractor shall remove loose material from the designated area by manual means or by using chipping hammers, milling machines, or other methods approved by the Engineer. Removal depth shall be to sound concrete, but not exceeding 75 mm. All removed material including that removed by milling or other means, shall be immediately removed from

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the repair surface. When working adjacent to traffic, the Contractor shall prevent materials from the spilling on the traveled way.

Prior to tack coating, the repair surfaces shall be dry and cleaned of dust, dirt and loose material. Tack coat shall be applied to all surfaces at a rate consistent with Section 407-3.02 of the Standard Specifications. Asphalt concrete shall be placed and compacted in the prepared repair area. Tack coat and HMA mixture shall be placed when the ambient and surface temperatures are 7°C or greater. The minimum HMA mixture temperature shall be 120°C.

If the total patch depth is greater than 75 mm, the HMA mixture shall be compacted in lifts of approximately equal thicknesses, 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 §401-3.06. The repair area shall be slightly overfilled with HMA mixture 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 04403.880101 M shall be the number of square meters of existing HMA pavement overlay removed and repaired. The quantity to be measured under Item 04403.880201 M shall be the number of square meters of existing PCC pavement removed and repaired. The minimum area of an individual repair shall be 0.1 m<sup>2</sup>.

**BASIS OF PAYMENT**

The unit price bid per square meter shall include the costs of all labor, materials, and equipment needed to complete the work including necessary saw cutting, tack coat and asphalt concrete.

Payment will be made under:

<b>ITEM NO.</b>	<b>TITLE</b>	<b>PAY UNIT</b>
04403.880101 M	Remove and Repair Defective HMA Pavement Overlay	Square Meter
04403.880201 M	Remove and Repair Defective PCC Beneath HMA Pavement Overlay	Square Meter