

ITEM 04402.8901 M - Remove and Repair Defective HMA Overlay

ITEM 04402.8902 M - Remove and Repair Defective PCC Beneath a HMA Overlay

DESCRIPTION

Remove and Repair Defective HMA Overlay. Under this item, the Contractor shall remove and repair deteriorated portions of a hot mix asphalt (HMA) overlay. Repair areas shall be indicated on the contract plans, or as ordered by the Engineer.

Remove and Repair Defective PCC Beneath an HMA Overlay. Under this item, the Contractor shall remove and repair deteriorated portions of the portland cement concrete (PCC) pavement that have been exposed through the use of Item 04402.8901 M. Repair areas shall be determined by the Engineer.

MATERIALS

Repair materials shall meet the requirements of the following items:

402.018901 M True & Leveling F9, Superpave HMA, 80 Series Compaction
407.01 M Tack Coat

CONSTRUCTION DETAILS

The Contractor shall remove defective HMA to the existing PCC surface using chipping hammers meeting the requirements of § 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 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. The Contractor shall dispose of any defective PCC 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_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_C.

If the total patch depth is greater than 75 mm, the HMA 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

ITEM 04402.8901 M - Remove and Repair Defective HMA Overlay

ITEM 04402.8902 M - Remove and Repair Defective PCC Beneath a HMA Overlay

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 § 402-3.04, Rollers. 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 04402.8901 M shall be the number of square meters of existing HMA overlay removed and repaired. The quantity to be measured under Item 04402.8902 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 square meters.

BASIS OF PAYMENT

The unit bid price per square meter for Item 04402.8901 M shall include the costs of all labor and equipment needed to complete the work including tack coat and HMA. The unit bid price per square meter for Item 04402.8902 M shall include the costs of all labor, materials, and equipment needed to complete the work.