

ITEM 01403.8801 M - REMOVE AND REPAIR DEFECTIVE AC OVERLAY
ITEM 01403.8802 M - REMOVE AND REPAIR DEFECTIVE PCC BENEATH AN AC OVERLAY

DESCRIPTION:

1. Remove and Repair Defective AC Overlay Over PCC Joints. Under this item, the Contractor shall remove and repair deteriorated portions of an asphalt concrete (AC) overlay. Repair areas shall be indicated on the contract plans, or as ordered by the Engineer.
2. Remove and Repair Defective PCC Beneath an AC 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 01403.8801M. Repair areas shall be determined by the Engineer.

MATERIALS:

Repair materials shall meet the requirements of the following items:

Asphalt Concrete - Truing and Leveling Course 403.21 M
Tack Coat 407.01 M

CONSTRUCTION DETAILS:

The Contractor shall remove defective AC to the existing PCC surface using chipping hammers meeting the requirements of Subsection 580-3.02 or a milling machine. If chipping hammers are used, the Contractor shall first sawcut the AC 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 AC 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 AC 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 AC shall be placed and compacted in the repair areas. The minimum AC placement temperature shall be 120°C.

If the total patch depth is greater than 75 mm, the AC 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 Subsection 401-3.06. The AC 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 01403.8801 M shall be the number of square meters of existing AC

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overlay removed and repaired. The quantity to be measured under Item 01403.8802 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 01403.8801 M shall include the costs of all labor and equipment needed to complete the work including tack coat and asphalt concrete. The unit bid price per square meter for Item 01403.8802 M shall include the costs of all labor, materials, and equipment needed to complete the work.

This specification is
DisApproved