

44000

440.00

Designer Note: Include in contracts with partial depth patching. Discuss depth of patch and replacement lift thicknesses with Construction and Materials. If patches must remain open overnight, remove the paragraph saying they have to be opened the same day.

Priming of the patch surfaces is included in the cost of the Partial Depth Patching pay item and should not be paid separately in the plans. Do not use BDE special "PCC Partial Depth Hot-Mix Asphalt" if using this special.

Pay Item is X0556100, PARTIAL DEPTH PATCHING (SPECIAL), by the Square Yard to cover the milling. Use Pay Item X4421000, PARTIAL DEPTH PATCHING by the Ton to cover the HMA.

Fillings: * Total depth patch.
 ** Number of lifts.
 *** Thickness of lifts.

PARTIAL DEPTH PATCHING

Effective: April 26, 2013 Revised: November 6, 2020

This work shall consist of partial depth patching of the existing pavement structure and replacement with Hot-Mix Asphalt (HMA) material at the locations shown in the plans or as directed by the Engineer. This work will be performed before completion of the cold milling operation and prior to the placement of the HMA overlay, if applicable.

This work shall include all labor, equipment, and materials necessary to remove the existing HMA overlay to a depth of (_____)*. The removal shall be performed with a cold milling machine of sufficient size and weight to remove the existing HMA. The milling machine must be operated longitudinally with the flow of traffic and will not be permitted to cut transversely across the lane. Disposal of waste materials for the work described herein shall be in accordance with Article 202.03 of the Standard Specifications. After cold milling the patch, all loose material shall be removed and the area air-blast cleaned to the satisfaction of the Engineer. Replacement HMA material shall be as shown in the Mixture Requirements Table in the plans.

Prior to placement of the HMA material, the bottom and sides of the patch shall be primed in accordance with Article 406.05 of the Standard Specifications using an SS-1hP bituminous material. The prime shall be applied at a residual rate of 0.08 lbs./Sq. Ft. by means of a mechanical distributor and shall be placed on all surfaces of the milled trench.

The HMA material shall be placed in (_____)** (_____)*** inch lifts and shall match the elevation of the surrounding pavement after final compaction. Bumps greater than ¼", measured with a 16' straight edge, left after compaction shall be removed with pavement surface grinding equipment in accordance with Article 1101.04 of the Standard Specifications.

The HMA mixture and density control limits shall conform to Article 1030 of the Standard Specifications. Compaction shall be accomplished using a vibrating roller that conforms to the applicable sections of Article 1101.01 of the Standard Specifications.

The Contractor shall fill all patches with the HMA material in the same day they are milled. No open patches will be allowed to remain overnight.

Removal of the existing HMA will be measured for payment in place, and the area computed in Square Yards. The limits will be the area of the patch that measures at least (_____)”* in depth, and shall not include the rounded transition at the beginning and end of the patch.

If after milling, it's determined by the Resident Engineer that damage to the existing pavement structure still exists and must be addressed by means of a full-depth patch, the additional labor and materials required shall be paid in accordance to Article 109.04 of the Standard Specifications for "Road and Bridge Construction."

Replacement with HMA will be measured in Tons placed to fill the full depth milled area (PARTIAL DEPTH PATCHING).

Basis of Payment: Partial depth removal and cleaning of the pavement will be paid for at the contract unit price per Square Yard for PARTIAL DEPTH PATCHING (SPECIAL). The HMA placement and the priming of the partial depth patches will be paid for at the contract unit price per Ton for PARTIAL DEPTH PATCHING.