

MICHIGAN  
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION  
FOR  
**WARRANTY WORK REQUIREMENTS FOR HOT MIX ASPHALT CRACK  
TREATMENT (CAPITAL PREVENTIVE MAINTENANCE)**

CFS:DJW

1 of 2

APPR:KPK:TGH:04-15-22  
FHWA:APPR:04-15-22

**a. Description.** Use this special provision in conjunction with 20SP-500B to perform warranted, HMA surface crack treatment. The work consists of treating cracks in HMA surfaces using both the, saw or rout and seal process, and an overband process.

**b. Limits of Warranted Work.** The warranted work includes all HMA crack treatment applications on driving lanes and shoulders within the project limits unless otherwise indicated on the proposal.

**c. Warranty Period.** The length of warranty will be 2 years from the Acceptance Date of Warranted Work.

**d. Amount of Warranty Bond.** Supply a warranty bond equal to 100 percent of the warranted work for HMA crack treatment.

**e. Materials.** Subsection 502.02 of the Standard Specification for Construction remains in effect except as noted in this special provision.

**f. Construction.** Subsection 502.03 of the Standard Specification for Construction remains in effect except as noted in this special provision.

**g. Measurement and Payment.** Delete subsection 502.04 of the Standard Specifications for Construction in its entirety and replace it with the following:

The completed work, as described, will be measured and paid for at the contract unit price using the following pay items:

Pay Item	Pay Unit
HMA Crack Treatment, Lane, Warranty.....	Lane Mile
HMA Crack Treatment, Ramp, Warranty .....	Lane Mile

1. **HMA Crack Treatment, Lane, Warranty** includes preparing, filling and sealing the cracks and complying with all requirements including the warranty, for full coverage as specified on the plans. **HMA Crack Treatment, Lane, Warranty** will be measured along the centerline of each lane and will include the traffic lane, as defined in the Road Asset Inventory and any adjacent paved shoulders.

2. **HMA Crack Treatment, Ramp, Warranty** includes preparing, filling and sealing the cracks and complying with all requirements including the warranty, for full coverage as

specified on the plans. **HMA Crack Treatment, Ramp, Warranty** will be measured along the ramp centerline beginning at the 2 foot gore point including shoulders.

**h. Warranty Requirements.** If any of the following minimum performance criteria are not met, warranty work is required. Ensure the warranty work is performed prior to conclusion of the warranty period or within such other time frame as agreed to by the Department and the Contractor, unless safety concerns dictate otherwise.

One segment (528 feet in length) per one lane mile will be selected to review in detail. One lane will be reviewed for measuring the performance of the crack treatment. One segment will be reviewed for any projects or remaining portions of a project less than 1 mile, but greater than 2 segments (1056 feet).

A separate measurement and calculation of treatment failure, as defined in 20SP-500B, will be made for material placed in a saw and seal configuration and material placed in an overband configuration. The measurement will define the amount of failure as a percentage of the total length of cracks in the segment by the following formula:

1. Single Segment Failure. The allowable threshold limit for material failure must not exceed 30 percent of any one segment.

Corrective action for this parameter requires the Contractor to reseal the entire deficient segment plus all other deficient segments that exceed 30 percent failure within that mile, including shoulders unless the shoulders, or portions thereof, were exempted in the proposal from treatment due to a high concentration of cracks.

2. Multiple Segment Failure. The allowable threshold limit for material failure must not exceed 10 percent of all segments evaluated.

Corrective action for this parameter requires the Contractor to reseal the entire project location, including shoulders unless the shoulders, or portions thereof, were exempted in the proposal from treatment due to a high concentration of cracks.

3. Catastrophic Failure. If at any time during the warranty period, 30 percent of the cracks treated as part of this contract fail, the Contractor will correct all failures as soon as weather conditions permit.