MICHIGAN DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION FOR **PAVEMENT PERFORMANCE WARRANTY**

CFS:DJW

1 of 7 APPR:KPK:DBP:03-14-24 FHWA:APPR:03-18-24

a. Description. The pavement performance warranty consists of satisfying the warranty requirements of the work contained in the Special Provision for Warranty Work Requirements. This special provision establishes the common terms and definitions applied to the pavement requiring warranted work. The pavement performance warranty assures and protects the Department from specific defects found in the pavement.

b. Definitions.

Abrasion. The wearing away of treatment material by tire friction or snowplow scraping.

Acceptance Date of Warranted Work. The date when the warranted work is complete, has been determined by the Department to be in compliance with the contract specifications, and is continuously open to traffic. This is the date of initial acceptance and constitutes the start date for the warranty period. There may be more than one acceptance date of warranted work for a project.

Adhesion. The bonding of a material to crack sidewalls and the pavement surface.

- Bleeding/Flushing. The accumulation of excess asphalt binder on the pavement surface that creates a shiny, reflective condition and becomes tacky to the touch at high temperatures.
- **Cohesion.** The resistance of a material to internal rupture.
- **Debonding.** A physical separation of two HMA layers. De-bonding will be visually identified as shoving, or the loss of the surface course. Surface potholes, regardless of depth, will be classified as de-bonding.
- Driving Lane(s). The delineated pavement surface used by traffic. Each of the following is considered a separate driving lane.
 - Each individual mainline lane and adjacent shoulder
 - The sum of all ramp lanes and the associated acceleration/deceleration lanes
 - The sum of all auxiliary lanes, such as passing lanes and turn lanes

Approaches and driveways are not considered driving lanes for the purpose of this special provision.

Longitudinal Crack. Any open crack in the individual driving lanes that extends more in the longitudinal direction than the transverse direction.

- Loss of Cover Aggregate. Areas of dislodged and removed aggregate from the chip seal surface caused by the mechanical action of vehicles. Chip seal damage from snowplows will not be considered defective if both the aggregate and asphalt emulsion have been removed from the underlying pavement surface. When asphalt emulsion remains on the surface without aggregate, the chip seal is defective. This parameter applies to all treated areas, including driving lanes and shoulders.
- **Non-Working Cracks.** Cracks that experience relatively little horizontal or vertical movement as a result of temperature change or traffic loading. As a general rule, movement less than 1/8 inch.
- **Opening to Traffic.** The allowance of vehicles on the newly chip sealed pavement with or without the use of reduced speeds and/or a pilot car.
- **Overband.** A type of finish in which material is allowed to completely cover prepared cracks by extending onto the pavement surface.
- **Raveling.** Surface disintegration, due to the loss of aggregate material, that occurs over an area or in a continuous longitudinal strip. Wear caused by snowplow abrasion is not considered raveling.
- **Reservoir.** A uniform rectangular channel resulting from crack sawing operations.
- **Rutting.** Longitudinal surface depressions in the wheel path of a HMA pavement caused by inadequate compaction or plastic movement of the asphalt mixture.
- Surface Cracking. The total number of defective cracks within a 528 feet segment.
- **Transverse Crack.** Any open crack that equals or exceeds 6 feet in length in the individual driving lanes that extends more in the transverse direction than the longitudinal direction.
- **Treatment Failure.** The degree to which a treatment is not performing its function. This includes areas along the sealed or filled crack exhibiting loss of adhesion or cohesion or pull-out of material. Sealant materials displaying abrasion are not performing, unless there is a definable upheaval in the pavement profile along crack edges that allows snowplow scraping to wear away material.
- **Warranted Work.** Work that is guaranteed not to exceed the specified thresholds of performance during the warranty period.
- Warranty Bond. A surety which guarantees that the warranty requirements will be met.
- **Warranty Work.** Corrective action by the Contractor to bring the warranted work back into compliance. All costs will be borne by the Contractor including traffic control, mobilization, pavement marking and/or other related work.
- **Working Cracks.** Cracks that experience considerable horizontal or vertical movement as a result of temperature change or traffic loading. In general, movement greater than, or equal

to 1/8 inch.

c. Initial Acceptance. The Department and the Contractor must jointly review all completed warranted work, or a portion thereof, as determined by the Department. If the work does not meet contract requirements, the Contractor must make all necessary corrections, at their expense, prior to initial acceptance. Initial acceptance will occur as soon as the Department determines that all contract requirements have been met for the warranted work. The initial acceptance date on warranties that include a Delayed Acceptance, will be the date that the warranted work was completed and opened to traffic if no deficiencies are observed in the delay period, or the date that all corrective work was completed for any deficiencies that were observed in the delay period. The date on which initial acceptance occurs is termed the Acceptance Date of Warranted Work.

Initial acceptance will be documented and executed jointly by the Department and the Contractor on a form furnished by the Department. A copy of the form will be sent to the Contractor's warranty bond surety agent, by the Department. Neither the initial acceptance nor any prior inspection, acceptance, or approval by the Department diminishes the Contractor's responsibility under this warranty.

The Department may accept the work and begin the warranty period to accommodate seasonal limitations or staged construction, excluding any area needing corrective work.

d. Warranty Bond. Furnish a single term warranty bond of the amount stipulated in the Special Provision for Warranty Work Requirements, prior to contract award. The effective starting date of the warranty bond will be the Acceptance Date of Warranted Work. The warranty bond will be released at the end of the warranty period or after all warranty work has been satisfactorily completed, whichever is later, and a form furnished by the Department is jointly executed by the Department and the Contractor.

e. Rights and Responsibilities of the Department. The Department:

1. Reserves the right to approve the time, traffic control and methods for performing any warranty work by permit through the Region utilities and permit process.

2. Reserves the right to approve the schedule proposed by the Contractor to perform warranty work.

3. Reserves the right to approve all materials and specifications used in warranty work.

4. Reserves the right to determine if warranty work performed by the Contractor meets the contract specifications.

5. Reserves the right to perform, or have performed, routine maintenance during the warranty period, which routine maintenance will not diminish the Contractor's responsibility under the warranty.

6. Reserves the right, if the Contractor is unable, to make immediate emergency repairs to the pavement to prevent an unsafe road condition caused by defective warranted work as determined by the Department. The Department will attempt to notify the Contractor that action is required to address an unsafe condition. The Department will record the time and date of the attempts for Contractor notification. However, should the Contractor be unable to

comply with this requirement, to the Department's satisfaction and within the required time frame specified by the Department, the Department will perform, or have performed any emergency repairs deemed necessary. Any such emergency repairs undertaken will not relieve the Contractor from meeting the warranty requirements of this special provision. Any costs associated with such emergency repairs will be paid by the Contractor.

7. Is responsible for monitoring the pavement throughout the warranty period and will provide the Contractor any written reports of the surface condition and/or maintenance activities related to pavement performance when requested.

8. Is responsible for notifying the Contractor, in writing, of any corrective action required to meet the warranty requirements.

f. Rights and Responsibilities of the Contractor. The Contractor:

1. Must warrant to the Department that the warranted work will be free of defects as measured by the performance parameters and specified threshold values for each. Ensure the warranty bond is described on a form furnished by the Department. Submit the completed form to the Department prior to award of contract.

2. Is responsible for performing all warranty work including, but not limited to, maintaining traffic and restoring all associated pavement features, at the Contractor's expense.

3. Is responsible for performing all temporary or emergency repairs, resulting from being in non-compliance with the warranty requirements, using Department approved materials and methods.

4. Must notify the Department and submit a written course of action for performing the needed warranty work, 10 calendar days prior to commencement of said warranty work, except in the case of emergency repairs as detailed in this special provision. The submittal must propose a schedule for performing the warranty work and the materials and methods to be used.

5. Must follow a Department approved maintaining traffic plan when performing warranty work. Ensure all warranty work is performed under permit issued by the Region Utilities and Permits Engineer. The permit fee and an individual permit performance bond will not be required. The permit insurance requirements, however, will apply.

6. Must furnish to the Department, in addition to the regular performance and lien bond for the contract, supplemental performance and lien bonds covering any warranty work being performed. Furnish these supplemental bonds and liability insurance prior to beginning any warranty work, using Department approved forms. Ensure these supplemental coverages are in the amount required by the Department to cover the costs of warranty work.

7. Must complete all warranty work required by this special provision and prior to conclusion of the warranty period, or as otherwise agreed to by the Department.

8. Will be liable during the warranty period in the same manner as Contractors currently are liable for their construction related activities with the Department pursuant to the Standard Specifications for Construction, including, but not limited to subsections 104.07.C, 107.10 and

107.11. This liability will arise and continue only during the period when the Contractor is performing warranty work. This liability is in addition to the Contractor performing and/or paying for any required warranty work, and must include liability for injuries and/or damages and any expenses resulting therefrom which are not attributable to normal wear and tear of traffic and weather, but are due to non-compliant materials, faulty workmanship, and to the operations of the Contractor as set forth more fully in subsections 104.07.C, 107.10 and 107.11 of the Standard Specifications for Construction.

g. Evaluation Method. The Department will conduct pavement evaluations by dividing the project into segments. Each individual driving lane will be divided into segments of 528 feet for measuring and quantifying the condition parameters. Evaluation may include use of both the Department's Pavement Management System and/or field pavement condition reviews. This evaluation may be waived in emergency situations.

The beginning point for laying out segments will be the Point of Beginning (POB) of the project. Segments will be laid out consecutively to the Point of Ending (POE) of the project. The original segmentation of the project will be used for all successive reviews throughout the warranty period.

h. Condition Parameters. Condition parameters are used to measure the performance of the warranted work during the warranty period. Each condition parameter has a threshold level applied to each segment and defines the number of defective segments allowed before corrective action (warranty work) is required.

i. Warranty Requirements. Warranty work will be required when the following two criteria are both met as a result of a failure to meet the performance parameters.

Criterion 1 - The threshold limit for a performance parameter is exceeded, and

Criterion 2 - The maximum allowable number of defective segments is exceeded for one or more performance parameters for a driving lane, unless otherwise noted in the applicable Warranty Work Requirements Specification.

Specific threshold limits and segment limits are covered in the applicable Warranty Work Requirements Specification.

During the warranty period, the Contractor will not be held responsible for pavement distresses that are caused by factors beyond his control and unrelated to design decisions made by the Contractor, pavement construction or materials. These include but are not limited to: chemical and fuel spills, vehicle fires, snowplowing, and any testing by the Department, such as coring. Other factors considered to be beyond the control of the Contractor, which may contribute to pavement distress will be considered by the Engineer on a case by case basis upon receipt of a written request from the Contractor.

j. Conflict Resolution Team. The sole responsibility of the Conflict Resolution Team (CRT) is to provide a decision on disputes between the Department and the Contractor regarding application or fulfillment of the warranty requirements. The CRT will consist of five members:

1. Two members selected and compensated by the Department.

2. Two members selected and compensated by the Contractor.

3. One member mutually selected by the Department and the Contractor. Compensation for the third party member will be equally shared by the Department and the Contractor.

If a dispute arises on the application or fulfillment of the terms of this warranty, either party may serve written notice that appointment of a CRT is required.

At least three members of the CRT must vote in favor of a motion to make a decision. If agreement cannot be reached, the CRT may decide to conduct a forensic investigation. The CRT will determine the scope of work and select the party to conduct the investigation. All costs related to the forensic investigation will be shared proportionally between the Contractor and the Department based on the determined cause of the condition.

k. Emergency Repairs. If the Department determines that emergency repairs are necessary for public safety, the Department or its agent may take repair action. Ensure emergency repairs are authorized by the Engineer.

Prior to emergency repairs, the Department will document the basis for the emergency action. In addition, the Department will preserve evidence of the defective condition.

I. Non-Extension of Contract. This special provision must not be construed as extending or otherwise affecting the claim process and statute of limitation applicable to this contract.

m. Measurement and Payment. All costs, including engineering and maintaining traffic costs, associated with meeting the requirements of this special provision are considered to be included in the contract unit prices for the warranted work regardless of when such costs are incurred throughout the warranty period. These costs include but are not limited to, all materials, labor and equipment necessary to complete required warranty work.

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Clear Form Michigan Department of Transportation 1029 (10/17) INITIAL ACCEPTANCE FOR PAVEMENT File 107 WARRANTY WORK CONTRACT ID CONTROL SECTION JOB NUMBER SURETY NAME SURETY ADDRESS CITY STATE ZIP CODE CONTRACTOR NAME CONTRACTOR ADDRESS STATE ZIP CODE CITY IDENTIFY EACH JOB NUMBER, LOCATION AND WORK SEPARATELY ROUTE NUMBER CONTROL SECTION DATE ACCEPTED JOB NUMBER PROJECT ENGINEER WORK TYPE INITIAL ACCEPTANCE OF WARRANTY WORK APPROVAL

CONTRACTOR'S SIGNATURE	DATE
ENGINEER'S SIGNATURE	ACCEPTANCE DATE
ENGINEER'S NAME	

cc: Surety Company