



DEVELOPMENTAL SPECIFICATIONS
FOR
TRANSVERSE JOINT LEVELING FOR HMA PAVEMENTS

Effective Date
January 19, 2005

THE STANDARD SPECIFICATIONS, SERIES 2001, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE DEVELOPMENTAL SPECIFICATIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

01055.01 GENERAL.

Transverse Joint Leveling consists of filling shallow depressions in the pavement at and adjacent to cracks with an approved hot-applied, pourable, self-adhesive material that has a uniform texture, and adhere to the pavement surface. All cracks in the application area shall be filled. The intended purpose is to level the surface of the depression and improve the ride of the pavement.

When crack cleaning and filling is a part of the contract, that work will be covered by a separate specification.

01055.02 MATERIAL.

The material to be used for the transverse joint leveling shall be an approved hot blended aggregate filled polymer mastic repair product for leveling, sealing, filling, and making thin bonded repairs to pavements. The mastic shall be specifically formulated to repair distresses which are larger than those typically repaired by crack and joint sealing, but not requiring milling and patching methods or patching methods for the repair. The material shall also be flexible, self-adhering, and resistant to deformation by vehicle loadings. The following is a list of approved products

- PolyPatch mixtures manufactured by CRAFTO, INC.
- Mastic One manufactured by PAVETECH International
- Level and Go Repair Mastic manufactured by Deery American Corporation
- An approved equal product.

01055.03 CONSTRUCTION.

A. Equipment.

The Contractor shall furnish equipment to prepare the pavement including the removal of loose, deteriorated, or undesirable material from the joint to be repaired; heating and application equipment; and equipment needed to perform the leveling work.

Any standard cleaning method used to clean pavements, such as power brooms, compressed air, high-pressure water, and hand tools will be acceptable, except water flushing will not be permitted in areas where considerable cracks are present in the pavement surface.

All equipment, tools, and machines shall be recommended for heating and distributing the leveling material by the product manufacturer and shall be maintained in satisfactory working order at all times.

B. Construction.

Immediately prior to applying the leveling material, the surface and cracks shall be cleaned of all loose material, vegetation, and other objectionable material. The surface preparation shall be subject to the approval of the Engineer.

Prior to spreading the material across the joint or crack to be leveled, the pavement surface shall be dry.

The finish elevation of the leveling material shall be level with, or not more than 1/4 inch (5 mm) above, the surrounding pavement surface.

Leveling material shall be heated and applied as recommended by the product manufacturer.

C. Limitations of Operations.

The work shall be conducted on one lane at a time unless the road is closed to traffic. If the road is not closed, the Contractor shall conduct all operations to provide a minimum of inconvenience to traffic. The Contractor shall not open the roadway with placed leveling material until the material is properly cured and will not track or be damaged by traffic.

The Contractor shall adjust the work schedule so that all work of transverse joint leveling will be completed in 1 working day if the road is not closed to traffic.

Articles 1107.08, 1107.09, and 1108.03 shall also apply.

01055.04 METHOD OF MEASUREMENT.

A. Transverse Joint Cleaning and Sealing.

The Engineer will calculate the number of centerline miles (kilometers), measured to the nearest 0.1 mile (0.1km) of transverse joints are cleaned and sealed. The calculations will be based on the two-lane pavement, corrected for main line pavement of more than two lanes, including climbing lanes. At intersections, rest areas, and interchanges designated for transverse joint leveling, the additional areas of widened pavement, ramps, storage lanes, turning lanes, paved medians, and parking in rest areas will not be separately measured for payment. Between limits for which transverse joint cleaning and sealing is intended for either pavement or shoulders, no deductions will be made for bridges, intersections, or other interruptions where transverse joints are not to be cleaned and sealed.

B. Transverse Joint Leveling.

The Engineer will determine the number of pounds (kilograms) of material placed for Transverse Joint Leveling on the project. The Engineer will deduct unused quantities based on actual scaled weight (mass), product carton (container) content weight, or estimates.

01055.05 BASIS OF PAYMENT.

A. Transverse Joint Cleaning and Sealing.

For the number of miles (kilometers) of transverse joints are cleaned and sealed, the Contractor will be paid the contract unit price per mile (kilometer). This payment shall be full compensation for furnishing all equipment, tools, labor, surface preparation, mixing, and placing the leveling material except for the leveling material.

B. Transverse Joint Leveling.

For the pounds (kilograms) of specified material used for Transverse Joint Leveling incorporated into the project, the Contractor will be paid the contract unit price per pound (kilogram).