



Iowa Department of Transportation

SUPPLEMENTAL SPECIFICATIONS FOR QUALITY CONTROL PROGRAM FOR SMALL HMA PAVING QUANTITIES

Effective Date
February 17, 2009

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

01059.01 GENERAL.

This Supplemental Specification applies to work on the Interstate, Primary, and Secondary road systems and defines the quality control programs for contracts with HMA mixtures. ~~These requirements will not apply to mixtures used for HMA patching.~~

Each patching bid item shall be defined as a small quantity and shall meet the requirements of this Supplemental Specification.

For each HMA mixture bid item of more than 1000 tons (1000 Mg), all requirements of Article 2303.04 of the Standard Specifications shall apply.

For each HMA mixture bid item of 1000 tons (1000 Mg) or less shall be defined as small quantities and shall meet the requirements of this Supplemental Specification.

01059.02 QUALITY CONTROL FOR SMALL QUANTITIES.

A. Mix Design.

The Job Mix Formula (JMF) shall be prepared by the Contractor and approved by the Engineer prior to HMA production. The mix design shall comply with Article 2303.02 of the Standard Specifications and Materials I.M. 510.

B. Plant Production.

The calibration of the HMA production plant for the JMF shall be current and not more than 12 months old.

The Contractor shall use certified asphalt binder and approved aggregate sources meeting the JMF. The plant shall maintain an asphalt binder log to track the date and time of binder delivery. The HMA delivery tickets shall identify the JMF.

The Contractor shall monitor the quality control test results and make adjustments to keep the mixture near the target JMF values.

C. Construction.

Density measurements shall be taken of the compacted mixture, except when Class II compaction is specified. The Contractor's field quality control laboratory compaction shall be used for field density

control as specified in Article 2303.04 of the Standard Specifications. The Engineer may accept the density of the compacted layer based on cores or density gauge. The Engineer may waive density measurement provided the compaction has been thorough and effective. Density measurements of the compacted mixture shall be taken no later than the next working day following placement and compaction.

For small quantities, a lot will be the entire quantity of each HMA mixture bid item.

The quality index for density will not apply to small quantities.

D. Sampling and Testing.

Material sampling and testing is for production quality control only. Acceptance of mixture is based on Contractor certification. The Contractor shall perform a minimum of one aggregate cold-feed and one loose HMA test per lot. Sampling and testing of loose HMA is only required for mechanically placed mixture. All sampling and testing procedures shall follow the Standard Specifications and Materials I.M.s using certified technicians and qualified testing equipment. The Engineer may approve alternative sampling procedures. The sample shall be taken between the first 100 to 200 tons (100 to 200 Mg) of production. No split samples for agency verification testing are required.

Asphalt binder will be accepted based on the asphalt supplier's shipment certification. No binder sampling or testing is required.

No material sampling or testing is required for daily HMA production of less than 100 tons (100 Mg) on any project.

E. Certification.

The Contractor shall provide a certification for the production of any mixture in which the requirements in this Supplemental Specification for small quantities are applied. The test results and certification statement shall be placed on the Daily HMA Plant Report (Form 800241). The Daily HMA Plant Report for certified HMA may be submitted at the end of the project for all certified HMA quantities, or submitted at intervals for portions of the certified quantity. The certification statement shall be as follows:

“The HMA mixture contains certified asphalt binder and approved aggregate as specified in the approved mix design and was produced in compliance with the provisions of SS-01049.02, Quality Control for Small HMA Paving Quantities.”

01059.03 METHOD OF MEASUREMENT AND BASIS OF PAYMENT.

A completed Daily HMA Plant Report with the certification statement is required for measurement and payment for Contractor Certified HMA. The quantity of asphalt binder will be based on the approved JMF and any plant production quality control adjustments. Payment for the quality control requirements for small quantities will not be measured separately and shall be considered incidental to the items of HMA mixtures in the contract.