

**KANSAS DEPARTMENT OF TRANSPORTATION  
SPECIAL PROVISION TO THE  
STANDARD SPECIFICATIONS, 2007 EDITION**

**Add a new SECTION to DIVISION 600:**

**PLANT MIX ASPHALT CONSTRUCTION-COMMERCIAL GRADE (BM-MIXES)**

**1.0 DESCRIPTION**

Construct the Plant Mix Asphalt Mixture-Commercial Grade asphalt pavement and patching, as shown in the Contract Documents. Use the material designated for patching in the repair and patching of the base and/or subgrade, including the existing surface course. Note: Do not use BM-MIXES on State routes.

**BID ITEMS**

Plant Mix Asphalt Mixture-Commercial Grade  
Plant Mix Asphalt Mixture-Commercial Grade (Patching)

**UNITS**

Ton  
Ton

**2.0 MATERIALS**

**a. Requirements.** The asphalt mixture must be approved by the Engineer. This approval will generally be based upon the following conditions:

- (1) Furnish all materials by recognized producers.
- (2) Provide a recognized type of HMA plant.
- (3) Produce the mixture to meet BM-2 requirements in Special Provision 07-06001 (latest edition), or the Engineer may approve the use of another mix designation meeting the requirements of **SECTION 1103**.
- (4) Submit a complete proposed Marshall mix design for review and approval by the local governing authority requesting this type of mix, for each plant location to be used for production.

**b. Following approval of the mix, the Contractor may commence delivery of mix to the project.**

- (1) Provide a workable mixture capable of being spread without tearing or flushing under compaction.
- (2) Asphalt for tack may be any asphalt approved by the Engineer.
- (3) Certify the mixture produced for use meets the requirements of the approved mix design.

**3.0 PROCESS CONTROL**

**a. General.** During construction, the Engineer may conduct tests for gradation to verify compliance of the approved mix design. Non-compliance will be subject to the price adjustment as outlined in **TABLE 614-14: SCHEDULE OF ADJUSTED PAYMENT FOR HMA** in **Special Provision 07-06001** (latest edition).

For projects having less than 500 tons, the Engineer may conduct tests for gradation to verify compliance of the approved mix design.

For projects having greater than 500 tons, the testing frequency shall be 1 test for each 500 ton Lot or fraction thereof. However, should KDOT fail to sample a Lot, that Lot will not be subject to price adjustment.

The combined cold feed sample shall be taken at times designated by the Engineer and analyzed as time allows at locations provided by the Engineer.

**b. Basis of Acceptance and Payment.** The Engineer will accept the mixture based on test results of samples taken from each 500 tons produced.

Calculated values for acceptance test results for gradations will be shown to the nearest hundredth percent.

The absolute value of the deviation between the acceptance test results and the design job-mix single point will be determined for the #4, #8, #30 and #200 sieve, whichever results in the greatest price reduction.

**4.0 EQUIPMENT**

Use laydown, compacting, hauling and truck weighing equipment specified in **DIVISION 150**, except that approval by the Kansas Department of Agriculture, Division of Weights and Measures will satisfy all accuracy requirements of truck weighing equipment.

**5.0 CONSTRUCTION REQUIREMENTS**

Accomplish rolling of the mixture using a minimum of 2 rollers. On incidental and miscellaneous work and on patching, the Engineer may waive the minimum roller requirements if conditions warrant. Perform all compaction using standard and recognized techniques. Except for variations approved by the Engineer, complete final rolling while the temperature of the mixture is approximately 175°F or above. Tack between lifts as directed by the Engineer.

**6.0 WEATHER LIMITATIONS**

Do not place HMA on any wet or frozen surface or when weather conditions otherwise prevent the proper handling and finishing of the mixture.

Only place HMA when either the minimum ambient air temperature or the road surface temperature shown in **TABLE 602-13** is met. The Engineer may waive the temperature and weather condition requirements if warranted.

<b>TABLE 602-13: MINIMUM HMA PLACEMENT TEMPERATURES</b>			
<b>Paving Course</b>	<b>Thickness (inches)</b>	<b>Air Temperature (°F)</b>	<b>Road Surface Temperature (°F)</b>
Surface	All	50	55
Subsurface	<1.5	50	55
Subsurface	≥1.5 and < 3	40	45
Subsurface	≥ 3	30	35

**7.0 MEASUREMENT AND PAYMENT**

The Engineer will measure Plant Mix Asphalt Mixture-Commercial Grade and Plant Mix Asphalt Mixture-Commercial Grade (Patching) by the ton of material at the time of delivery to the road. No deduction will be made for the weight of the asphalt material in the HMA.

Commercial scale tickets completed by the producer will be acceptable.

Payment for "Plant Mix Asphalt-Commercial Grade" and "Plant Mix Asphalt Mixture-Commercial Grade (Patching)" at the contract unit prices, or at the adjusted price for those tons where a deficiency exists which require adjustments, is full compensation for the specified work.

When a deficiency of the mixture is determined to exist, the Contractor will adjust the mix proportions to comply with the approved Marshall design. The applicable payment shown in **TABLE 614-14: SCHEDULE OF ADJUSTED PAYMENT FOR HMA** in **Special Provision 07-06001** (latest edition) will be applied to the tonnage of plant mix produced until such time that the Contractor adjusts the mix proportions to comply with the approved Marshall design.

Price adjustment will be computed and shown as a lump sum dollar value on the Contractor's payment voucher.