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“Warm Mix Asphalt Additive	702.06”
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“The manufacture of HMA may include warm mix asphalt (WMA) processes in accordance with these specifications. WMA processes include combinations of organic additives, chemical additives, and foaming.”

“In surface and binder courses, aggregate for HMA may include RAP quantities up to 20 percent of total mix weight.”

“The Contractor may use warm mix asphalt (WMA) processes in the production of HMA. The Contractor shall submit to the Engineer for approval, the proposed process and how it will be used in the manufacture of HMA. The process submittal shall include the temperature range of the WMA.”

“(h) Equipped with a mean of preventing the segregation of the coarse aggregate particles from the remainder of the bituminous plant mix when that mix is carried from the paver hopper back to the paver augers. The means and methods used shall be approved by the paver manufacturer and may consist of chain curtains, deflector plates, or other such devices and any combination of these.

10/11/16

- 46 (1) Blaw-Knox bituminous pavers shall be
47 equipped with the Blaw-Knox Materials
48 Management Kit (MMK).
49
50 (2) Cedarapids bituminous pavers shall be those
51 that were manufactured in 1989 or later.
52
53 (3) Barber-Green/Caterpillar bituminous pavers
54 shall be equipped with deflector plates as
55 identified in the December 2000 Service
56 Magazine entitled "New Asphalt Deflector Kit
57 {6630, 6631, 6640}".
58

59 Prior to the start of using the paver for placing plant
60 mix, the Contractor shall submit for approval a full
61 description in writing of the means and methodologies that
62 will be used to prevent bituminous paver segregation. Use of
63 the paver shall not commence prior to receiving approval
64 from the Engineer.
65

66 The Contractor shall supply a Certificate of
67 Compliance that verifies that the approved means and
68 methods used to prevent bituminous paver segregation have
69 been implemented on all pavers used on the project and is
70 working in accordance with the manufacturer's
71 requirements."
72

73 **(VI) Amend Section 401.03(F)(1) HMA Pavement Courses One and a**
74 **Half Inches Thick Or Greater**, from lines 499 to 505 to read as follows:
75

76 **"(1) HMA Pavement Courses One and a Half Inches Thick Or**
77 **Greater.** Where HMA pavement compacted thickness indicated
78 in the contract documents is 1-1/2 inches or greater, compact to not
79 less than 92.0 percent nor greater than 97.0 percent of the
80 maximum specific gravity determined in accordance with AASHTO
81 T 209, modified by deletion of Supplemental Procedure for Mixtures
82 Containing Porous Aggregate."
83

84
85 **(VII) Amend Section 401.03(F)(3) HMA Pavement Courses One and a**
86 **Half Inches Thick or Greater In Special Areas Not Designated For Vehicular**
87 **Traffic**, from lines 530 to 538 to read as follows:
88

89 **"(3) HMA Pavement Courses One and a Half Inches Thick or**
90 **Greater In Special Areas Not Designated For Vehicular Traffic.**
91 For areas such as bikeways that are not part of roadway and other

areas not subjected to vehicular traffic, compact to not less than 90.0 percent of maximum specific gravity determined in accordance with AASHTO T 209, modified by deletion of Supplemental Procedure for Mixtures Containing Porous Aggregate. Increase asphalt content by at least 0.5 percent above that used for HMA pavements designed for vehicular traffic."

(VIII) Amend Section 401.04 Measurement, from lines 597 to 603 to read as follows:

"401.04 Measurement. The Engineer will measure asphalt concrete pavement per ton in accordance with the contract documents."

(IX) Amend Section 401.05 Payment, from lines 605 to 635, to read as follows:

"401.05 Payment. The Engineer will pay for the accepted pay item listed below at the contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents.

The Engineer will pay for each of the following pay item when included in the proposal schedule:

Pay Item	Pay Unit
HMA Pavement, Mix No. _____	Ton

(1) 80% of the contract unit price upon completion of submitting a job-mix formula acceptable to the Engineer; preparing the surface, spreading, and finishing the mixture; and compacting the mixture;

(2) 20% of the contract unit price upon completion of cutting samples from the compacted pavement for testing; placing and compacting the sampled area with new material conforming to the surrounding area; protecting the pavement; and final analysis.

The Engineer will pay for cold planing in accordance with and under Section 415 – Cold Planing of Existing Pavement.

The Engineer may, in lieu of requiring removal and replacement, use the sliding scale factor to accept HMA pavements compacted below 92.0 percent and above 97.0 percent. The Engineer will make payment for the material in

137 that production day at a reduced price arrived at by multiplying the contract unit
138 price by the pay factor shown in Table 401.05-1.
139

Table 401.05-1 – Sliding Scale Pay Factor for Compaction	
Percent Compaction	Percentage Payment
> 98.0	Removal
97.1 - 98.0	95
92.0 - 97.0	100
90.0 - 91.9	80
<90.0	Removal

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END OF SECTION 401