1 2		SECTION 401 – HOT MIX ASPHALT (HMA) PAVEMENT		
2 3 4	Make the following amendments to said Sections:			
5 6	(I) Amend Section 401.02 Materials, by adding the following after line 14:			
7 8		"Warm Mix Asphalt Additive 702.06"		
9 10	(II) Amend Section 401.02(A) General, by adding the following part			
11 12 13 14 15 16		"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."		
17 18 19	 (III) Amend Section 401.02(A) General, by replacing lines 36 - 37 to replace follows: 			
20 21 22		"In surface and binder courses, aggregate for HMA may include RAP quantities up to 20 percent of total mix weight."		
22 23 24 25	(IV) parag	Amend Section 401.02(C) Submittals , by adding the following graph after line 89:		
23 26 27 28 29 30 31	 "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." (V) Amend Section 401.03(B)(3) Asphalt Pavers, from line 200 to include the following: 			
32 33 34				
34 35 36 37 38 39 40 41 42 43 44 45		"(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. The following specific requirements shall apply to the identified bituminous pavers:		

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 65	from the Engineer.		
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 80	less than 93.0 percent nor greater than 97.0 percent of the		
80 81	maximum specific gravity determined in accordance with AASHTO		
81 82	T 209, modified by deletion of Supplemental Procedure for Mixtures Containing Porous Aggregate."		
82 83	Containing Foldus Aggregate.		
83 84	(VII) Amend Section 401.03(F)(3) HMA Pavement Courses One and a		
85	Half Inches Thick or Greater In Special Areas Not Designated For Vehicular		
86	Traffic , from lines 530 to 538 to read as follows:		
87			
88	"(3) HMA Pavement Courses One and a Half Inches Thick or		
89	Greater In Special Areas Not Designated For Vehicular Traffic		
90	and For Shoulder Paving Less Than Three Feet Wide. For		
91	areas such as bikeways that are not part of roadway, other areas		

Measurement, from lines 597 to 603 to read as (VIII) Amend Section 401.04 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 items 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 the following pay items when included in the proposal schedule: Pay Item Pay Unit HMA Pavement, Mix No. 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 93.0 percent The Engineer will make payment for the material in and above 97.0 percent. that production day at a reduced price arrived at by multiplying the contract unit price by the pay factor shown in Table 401.05-1.

> HSIP-0190(017) 401-3a

Ton

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not subjected to vehicular traffic, and shoulder widening and paving areas less than three feet wide, compact to not less that 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."

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Table 401.05-1 – Sliding Scale Pay Factor for Compaction			
Percent Compaction	Percentage Payment		
> 98.0	Removal		
> 97.0 - 98.0	95		
93.0 - 97.0	100		
90.0 - < 93.0	80		
<90.0	Removal		

END OF SECTION 401