1 2		SECTION 401 - HOT	MIX ASPHALT (HMA) PAVEMENT				
3 4	Make	Make the following amendments to said Sections:					
5 6 7	(I) after I	Amend <b>Section 401.02(A)</b> line 24:	General, by adding the following paragraph				
8 9 10 11 12		processes in accordance	HMA may include warm mix asphalt (WMA) with these specifications. WMA processes organic additives, chemical additives, and				
13 14 15	(II) follow	• •	General, by replacing lines 36 - 37 to read as				
16 17 18		"In surface and binde RAP quantities up to 20 per	r courses, aggregate for HMA may include cent of total mix weight."				
19 20 21	(III) parag	Amend <b>Section 401.02(C)</b> graph after line 89:	Submittals, by adding the following				
22 23 24 25 26 27		the production of HMA. The approval, the proposed prod	use warm mix asphalt (WMA) processes in e Contractor shall submit to the Engineer for sess and how it will be used in the manufacture ittal shall include the temperature range of the				
28 29		Amend <b>Section 401.03(B)(3</b> bllowing:	3) Asphalt Pavers, from line 200 to include				
30 31 32 33 34 35 36 37 38		of the coarse a bituminous pla hopper back to used shall be a consist of chai	ed with a mean of preventing the segregation aggregate particles from the remainder of the ant mix when that mix is carried from the paver to the paver augers. The means and methods approved by the paver manufacturer and may n curtains, deflector plates, or other such my combination of these.				
39 40		The folloidentified bitun	owing specific requirements shall apply to the ninous pavers:				
41 42 43 44 45		$\epsilon$	Blaw-Knox bituminous pavers shall be equipped with the Blaw-Knox Materials Management Kit (MMK).				

46	(2) Cedarapids bituminous pavers shall be those
47	that were manufactured in 1989 or later.
48	
49	(3) Barber-Green/Caterpillar bituminous pavers
50	shall be equipped with deflector plates as
51	identified in the December 2000 Service
52	Magazine entitled "New Asphalt Deflector Kit
53	{6630, 6631, 6640}".
54 55	Prior to the start of using the paver for placing plant
56	mix, the Contractor shall submit for approval a full
57	description in writing of the means and methodologies that
58	will be used to prevent bituminous paver segregation. Use of
59	the paver shall not commence prior to receiving approval
60	from the Engineer.
61	<b>o</b>
62	The Contractor shall supply a Certificate of
63	Compliance that verifies that the approved means and
64	methods used to prevent bituminous paver segregation have
65	been implemented on all pavers used on the project and is
66	working in accordance with the manufacturer's
67	requirements."
68	(V) Amound Cootion 404 00/EV(4) LIMA Devember Courses One and a
69 70	(V) Amend Section 401.03(F)(1) HMA Pavement Courses One and a Half Inches Thick Or Greater, from lines 499 to 505 to read as follows:
71	, and the second
72	"(1) HMA Pavement Courses One and a Half Inches Thick Or
73	Greater. Where HMA pavement compacted thickness indicated
74	in the contract documents is 1-1/2 inches or greater, compact to not
75	less than 93.0 percent nor greater than 97.0 percent of the
76	maximum specific gravity determined in accordance with AASHTO
77	T 209, modified by deletion of Supplemental Procedure for Mixtures
78	Containing Porous Aggregate."
79	
80 81	(VI) Amend Section 401.03(F)(3) HMA Pavement Courses One and a
82	Half Inches Thick or Greater In Special Areas Not Designated For Vehicular
83	Traffic, from lines 530 to 538 to read as follows:
84	Traine, from info oco to food to foud do follows.
85	"(3) HMA Pavement Courses One and a Half Inches Thick or
86	Greater In Special Areas Not Designated For Vehicular Traffic.
87	For areas such as bikeways that are not part of roadway and other
88	areas not subjected to vehicular traffic, compact to not less that
89	90.0 percent of maximum specific gravity determined in accordance
90	with AASHTO T 209, modified by deletion of Supplemental
91	Procedure for Mixtures Containing Porous Aggregate. Increase

92 93 94		asphalt content by at least 0.5 percent above that used for HMA pavements designed for vehicular traffic."	4			
95 96 <b>(VII</b> 97 follo	) Amer ows:	nd <b>Section 401.04 Measurement</b> , from lines 597 to 603 to read as	S			
	1.04 M	easurement.				
100 101 102 103	(A) Asphalt concrete pavement will be paid on a lump sum basis. Measurement for payment will not apply.					
104 105 106	(B) The Engineer will measure asphalt concrete pavement per ton in accordance with the contract documents.					
107 108 109 110	<b>(C)</b> The Engineer will measure leveling course per ton in accordance with the contract documents."					
111 112 <b>(VII</b>	<b>I)</b> Amer ows:	nd <b>Section 401.05</b> Payment, from lines 605 to 635, to read as	S			
115 " <b>40</b> 116 liste 117 Pay		<b>Payment.</b> The Engineer will pay for the accepted pay items at the contract price per pay unit, as shown in the proposal schedule II be full compensation for the work prescribed in this section and the cuments.	٠.			
120	The Engineer will pay for each of the following pay items when included in the proposal schedule:					
123 124	Pay I	tem Pay Uni	t			
125 126	(A)	HMA Pavement, Mix No. IV	า			
120 127 128 129 130		(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;	Э			
132 133 134 135 136		(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.	d			

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

The Engineer will pay for adjusting existing frames and covers and valve boxes in accordance with and under Section 604 – Manholes, Inlets and Catch Basins and Section 626 – Manholes and Valve Boxes for Water and Sewer Systems.

The Engineer may, in lieu of requiring removal and replacement, use the sliding scale factor to accept HMA pavements compacted below 93.0 percent and above 97.0 percent. The Engineer will make payment for the material in 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.

Table 401.05-1 – Sliding Scale Pay Factor for Compaction				
Percent Compaction	Percentage Payment			
Greater than 98.0	Removal			
Greater than 97.0 - 98.0	95			
93.0 - 97.0	100			
90.0 – less than 93.0	80			
Less than 90.0	Removal			

**END OF SECTION 401**