

## Case 09-04 – Modified Section 322: Add Pavement Fabric Interlayer for AC Overlay

Comments from 7/1/09 Meeting:

**1. Include a minimum asphalt concrete hot mix temperature in the specification.**

Response: There are two options – (a) include a minimum temperature for overlays only, or (b) include a minimum temperature for all asphalt lifts by replacing the second sentence in Section 321.8.4 with a minimum temperature table similar to the Asphalt Institute’s Table VI-2 (MS-11). Noted below are the specific changes needed (changes to existing text in red):

Option a. Modify the overlay specification (existing language in Section 322):

All areas where fabric has been placed shall be paved with asphaltic concrete during the same workshift. Placement of the asphaltic concrete shall closely follow fabric lay down. The temperature of the asphaltic concrete **immediately behind the laydown machine** shall not exceed 325 degrees F **but shall be no less than 310 degrees F when the pavement temperature is between 40 degrees and 60 degrees F**. In the event that asphalt binder coat bleeds through the fabric causing construction problems before the overlay is placed, the affected areas shall be sanded with a sand blotter in compliance with Section 333. Excess sand shall be removed before beginning the paving operation. In the event of a rainfall on the fabric prior to the placement of the asphaltic concrete, the fabric must be allowed to dry completely before the asphalt concrete is placed.

Option b. Modify the asphalt placement specification, 321:

as shown in Table 321.X

**321.8.4 Compaction Base and Surface:** It is the contractor’s responsibility to perform any desired Quality Control monitoring and/or testing during compaction operations to achieve the required compaction. Asphalt concrete immediately behind the laydown machine shall be ~~a minimum of 250 degrees F~~ as measured from a probe type thermocouple thermometer that has been calibrated to an AASHTO standard. The probe type thermocouple thermometer shall have a current calibration sticker attached. When measuring the temperature of the mat, the probe shall be inserted at mid-depth and as horizontal as possible to the mat.

TABLE 321.X						
MINIMUM ASPHALT CONCRETE PLACEMENT TEMPERATURES						
Base <sup>(1)</sup> Temp (°F)	Mat Thickness (inches)					
	½	¾	1	1 ½	2	3 and greater
40 - 50	---	--	310	300	285	275
50 - 60	---	310	300	295	280	270
60 - 70	310	300	290	285	275	265
70 - 80	300	290	285	280	270	265
80 - 90	290	280	275	270	265	260
+ 90	280	275	270	265	260	255
Maximum Rolling Time (minutes)	4	6	8	12	15	15

(1) Base on which mix is to be placed.