*INCLUDE SECTION 402 ON ALL PROJECTS WITH 402 ASPHALT PAY ITEMS AND AS NEEDED BASED ON CLAUSE INSTRUCTIONS AND WHEN RECOMMENDED BY THE PAVEMENTS REPORT/MEMO AND/OR BY THE MATERIALS ENGINEER*

*ON PROJECTS WITH 402 ASPHALT PAY ITEMS, PAY ITEM NAMES NEED TO INCLUDE ASPHALT BINDER PERFORMANCE GRADE (CONSULT WITH MATERIALS ENGINEER) AND PAVEMENT ROUGHNESS (CONSULT WITH PAVEMENTS ENGINEER) - SEE OTHER GUIDANCE ON HOW TO ADD REQUIRED INFO TO PAY ITEM NAMES AND HOW TO SHOW ON TYPICAL SECTIONS*

$$402.00A

Section 402. — ASPHALT CONCRETE PAVEMENT BY

HVEEM OR MARSHALL MIX DESIGN METHOD

Revised 18 February 2016

*INCLUDE THE FOLLOWING FOR PROJECTS IN STATES THAT HAVE ASPHALT SPECIFICATIONS SIMILAR TO THE FP (VERIFY WITH MATERIALS ENGINEER IF CLAUSE IS APPROPRIATE TO USE)*

$$402.03A

402.03. Add the following:

At the option of the Contractor, an alternate state department of transportation asphalt concrete pavement mixture may be substituted for approval, if the mixture conforms to the following:

* Contains the same maximum size aggregate as the specified aggregate gradation;
* Follows the design parameters (b), (c), and (d) shown in Table 402-1 for the specified class of mix; and
* Meets the requirements of Table 402-2.

The allowable deviations for an alternate state department of transportation asphalt concrete pavement mixture’s aggregate gradation will be the allowable deviations shown in Tables 703-4 and 703-5 for the specified grading.

*INCLUDE CLAUSES $$402.03B, $$402.03C, $$402.03D, $$402.03E, AND $$402.03F ON ALL PROJECTS WITH 402 ASPHALT PAY ITEMS*

$$402.03B

402.03(a). Delete the Subsection and substitute the following:

**(a) RAP.** Limit the quantity of RAP by mass in the JMF for the top lift of surface course to 15 percent. Limit the quantity of RAP by mass in the JMF for intermediate and base courses to 30 percent. For intermediate and base courses containing 20 to 30 percent by mass RAP, reduce the asphalt binder performance grade by 6°C for both high temperature and low temperature performance grades.

$$402.03C

402.03(c). Add the following after the first sentence:

Submit all JMF materials and information to the EFLHD Central Laboratory in Sevierville, Tennessee, with a copy to the CO as directed.

$$402.03D

402.03(c). Add the following:

If a state department of transportation asphalt concrete pavement mixture is requested for approval, submit a state department of transportation JMF approved within the past 12 months. Include documentation from a state department of transportation official certifying that the JMF is an approved state department of transportation asphalt concrete pavement mixture.

$$402.03E

402.03(c)(4). Add the following:

For JMFs with percentages of RAP greater than 15 percent, submit a quality control plan that includes the methods used to control the RAP percentage.

$$402.03F

402.03(d). Add the following after the first sentence:

Allow a minimum of 21 days for verification of each JMF after receipt of all material and information at the EFLHD Central Laboratory.

*INCLUDE THE FOLLOWING WHEN AN MTV IS REQUIRED (TYPICALLY USED FOR PROJECTS WITH GREATER THAN 1.0 MILES OF MAINLINE PAVING AND PAVEMENT ROUGHNESS TYPE I, II, OR III) (VERIFY WITH CONSTRUCTION IF CLAUSE IS APPROPRIATE TO USE) (VERIFY WITH PAVEMENTS IF EXISTING PAVEMENT STRUCTURE CAN SUPPORT AN MTV) (DO NOT USE IF ONLY PAVING PARKING AREAS OR NARROW/CONFINED AREAS)*

$$402.05A

402.05. Add the following:

Use an MTV conforming to Subsection 401.05(b) for paving operations.

*INCLUDE THE FOLLOWING ON ALL PROJECTS WITH 402 ASPHALT PAY ITEMS (TYPICALLY USED FOR PROJECTS WITH MAINLINE PAVING) (TYPICALLY NOT USED FOR PROJECTS WITH ONLY PARKING AREAS OR NARROW/CONFINED AREAS)*

$$402.13A

402.13. Add the following:

In addition to Subsection 401.13, begin paving operations at the furthest location from the asphalt plant and proceed towards the plant.

*DRAFT CLAUSE $$402.16A TO HAVE THE CO MEASURE THE PAVEMENT SURFACE ROUGHNESS INSTEAD OF THE CONTRACTOR IS UNDER DEVELOPMENT (VERIFY WITH MATERIALS ENGINEER IF DRAFT CLAUSE IS APPROPRIATE TO USE)*