



Illinois Department of Transportation

Memorandum

BDE PROCEDURE MEMORANDUM

NUMBER: 14-06

SUBJECT: BDE Manual Revision – Chapter 53

DATE: July 3, 2014

Chapter 53 of the BDE Manual has been revised to update the guidelines for evaluating in-place Hot-Mix Asphalt (HMA), as well as policies on HMA mixtures and quality management programs. See Chapter 53 of the BDE Manual on-line to view the revisions.

Background

Through discussions between the districts and the Bureau of Materials and Physical Research, it was determined the Guidelines for Sampling and Testing of Existing Hot-Mix Asphalt Pavements and Overlays were not being properly utilized to evaluate existing pavement conditions. To resolve this, the BMPR has revised the sampling frequency and testing requirements to make the procedures more manageable and encourage districts to utilize the procedures to identify poor performing HMA layers.

Also, several changes in mixture requirements and quality management programs have been implemented. Revisions to the appropriate sections of Chapter 53 were made to reflect the policy changes.

The following highlights the major revisions:

Section 53-3.06 was revised to combine the two destructive test methods of "pavement slab removal" and "pavement slicing" into one.

Section 53-3.08 was revised to reflect the reduced sampling requirements, proper procedures for taking core samples, and adding the Hamburg Wheel testing requirements.

Figures 53-3.F and 53-3.K were deleted and two new BMPR forms were created: BMPR 11176A "Existing HMA Pavement and Overlay Evaluation Materials Collection Field Report" and form BMPR 11176B "Existing HMA Pavement and Overlay Evaluation Laboratory Testing Summary Report".

Section 53-4.03 was revised to make it clear the 3P Program is applicable to interstates.

Section 53-4.07 was revised to delete IL-25.0 and IL-12.5 mixture compositions and add SMA-12.5. N105 mixtures were also deleted.

Figure 53-4.M was revised to add the Quality Management Program and Sublot Size to the HMA Mixture Requirements Table.

Figures 53-4.O, 53-4.P, 53-4.Q, and 53-4.R were combined into one (Figure 53-4.O) to consolidate the PG binder grade selection for all HMA applications into one table

Section 53-4.08 was revised to update figure numbers due to changes in the previous section.



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