



# INDIANA DEPARTMENT OF TRANSPORTATION

*Driving Indiana's Economic Growth*

**Design Memorandum No. 22-14**

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**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** /s/ David Boruff  
David Boruff  
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Traffic Engineering Division

**SUBJECT:** Liquid Asphalt Sealant for Milled HMA Corrugations

**EFFECTIVE:** Lettings on or after November 1, 2022

When centerline or edge line rumble stripes are part of a project, the designer should now add a supplemental pay item description “RPE” to the pay item for liquid asphalt sealant.

For projects that contain either of the following pay items for centerline or edge line rumble stripes, the supplemental pay item description “RPE” should be added as shown below for all corrugations on the project, regardless of whether they are for rumble stripes or rumble strips:

Pay Item	Pay Item Description	Unit
606-12399	Milled HMA Corrugations, Conventional	LFT
606-12400	Milled HMA Corrugations, Sinusoidal	LFT

Pay Item	Pay Item Description	Unit
401-11785	Liquid Asphalt Sealant, RPE	LFT

The Rapid Penetrating Emulsion (RPE) is a new type of liquid asphalt sealant, which has a two-day cure time. Conventional liquid asphalt sealants have a five-day cure time and often lead to poor pavement marking adhesion with rumble stripes, especially when weather conditions during the cure time are less than ideal.

Recurring special provisions [401-R-736](#) for QC/QA on HMA pavement and [902-M-062](#) for asphalt materials allow contractors to use RPE as the liquid asphalt sealant. A revision to Section 502-2.09 of the *Indiana Design Manual* is forthcoming.

For questions related to this design memo, please contact Dave Boruff, Office of Traffic Administration Manager, at [dboruff@indot.in.gov](mailto:dboruff@indot.in.gov).