



Eaton County
**Road
Commission**

April 21, 2021

Benjamin S. Lyons
Chair

NOTICE TO BIDDERS

Timothy J. Lamoreaux
Vice Chair

**EATON COUNTY ROAD COMMISSION
2021 HMA RESURFACING**

Lauren K. Aitch-Guerrant
Member

CONTRACT A

Addendum No. 1

Duane A. Eldred
Member

1. This addendum adds the following SP to the bid proposal: Michigan Department of Transportation Special Provision number 12SP501-04, RECYCLED HOT MIX ASPHALT MIXTURE ON LOCAL AGENCY PROJECTS

Jerry L. Frazier
Member

2. This addendum modifies the bid blank to add LVSP as an alternate material.

Blair E. Ballou, P.E.
Engineer-Manager

Patricia M. Loosemore
Director of Finance

If you have any questions, please contact me at 517-543-1630 x207

Sincerely,

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Assistant County Engineer

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MICHIGAN
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION
FOR
RECYCLED HOT MIX ASPHALT MIXTURE ON LOCAL AGENCY PROJECTS

CFS:KPK

1 of 2

APPR:JWB:CJB:03-13-14
FHWA:APPR:03-13-14

Add the following subsection to subsection 501.02.A.2, on page 234 of the Standard Specifications for Construction.

- c. **Reclaimed Asphalt Pavement (RAP) and Binder Grade Selection.** The method for determining the binder grade in HMA mixtures incorporating RAP is divided into three categories designated Tier 1, Tier 2 and Tier 3. Each tier has a range of percentages that represent the contribution of the RAP binder toward the total binder, by weight. The tiers identified below apply to HMA mixtures with the following exception: Superpave mixture types E3, E3 High Stress, E10, E10 High Stress, E30, E30 High Stress, E50, and E50 High Stress used as leveling or top course must be limited to a maximum of 27 percent RAP binder by weight of the total binder in the mixture.

Recycled materials may be used as a substitute for a portion of the new materials required to produce HMA mixtures in accordance with contract.

- **Tier 1 (0% to 17% RAP binder by weight of the total binder in the mixture).** No binder grade adjustment is made to compensate for the stiffness of the asphalt binder in RAP.
- **Tier 2 (18% to 27% RAP binder by weight of the total binder in the mixture).** For all mixtures no binder grade change will occur in Tier 2 for all shoulder and temporary road mixtures.

The required asphalt binder grade must be at least one grade lower for the low temperature than the design binder grade required for the specified project mixture type. Lowering the high temperature of the binder one grade is optional. For example, if the design binder grade for the mixture type is PG 58-22, the required grade for the binder in the HMA mixture containing RAP would be a PG 52-28 or a PG 58-28.

For Marshall Mixes, no binder grade change will be required when Average Daily Traffic (ADT) is above 7000 or Commercial Average Daily Traffic (CADT) is above 700. No binder grade change will occur for LVSP, E03 and E1 mixtures used as leveling or top course.

The asphalt binder grade can also be selected using a blending chart for high and low temperatures. Supply the blending chart and the RAP test data used in determining the binder selection according to *AASHTO M 323*.

- **Tier 3 ($\geq 28\%$ RAP binder by weight of the total binder in the mixture).** The binder

grade for the asphalt binder is selected using a blending chart for high and low temperatures per *AASHTO M 323*. Supply the blending chart and the RAP test data used in determining the binder selection.

EATON COUNTY ROAD COMMISSION

2021 HMA SURFACING
BID BLANK

CONTRACT A

<u>ITEM OF WORK</u>	<u>** % RAP</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT PRICE</u>	<u>TOTAL AMOUNT</u>
*HMA, 13A	_____	13,187	Ton	\$ _____	\$ _____
Shoulder, CI II		4,450	Ton	\$ _____	\$ _____
Pavt Mrkg, Type NR, 4 inch, Temp.		984	Ft	\$ _____	\$ _____
Monument Box Adjust		8	Each	\$ _____	\$ _____
TOTAL BID CONTRACT A					\$ _____

ALTERNATE MATERIALS

*HMA, 5E03	_____	13,187	Ton	\$ _____	\$ _____
*HMA, 5E1	_____	13,187	Ton	\$ _____	\$ _____
*HMA, LVSP	_____	13,187	Ton	\$ _____	\$ _____

* The Eaton County Road Commission is requesting pricing alternatives for this item. The quantity shown in both bid lines is the total estimated for this contract. Either HMA mix design may be selected in whole or in part for this contract at the discretion of the Eaton County Road Commission. The mix design will not change on any one HMA course on an individual project, but 2 course pavements may have separate mix designs for each course.

**Mix design percent RAP binder by weight of total binder

The undersigned agrees that the quantities provided on the Contract A Bid Blank are estimates. Actual quantities paid will be based on final field measurements. The Eaton County Road Commission reserves the right to increase or decrease quantities, or add or eliminate entire projects from the contract. No unit price changes will be allowed as a result of increased or decreased quantities, or for added or eliminated projects.

Company Name _____

Date _____

Address _____

Phone # _____

Fax # _____

Signed by _____
