

INGHAM COUNTY ROAD COMMISSION  
MASON, MICHIGAN

PROPOSAL #1582

BITUMINOUS SURFACING MIXTURE - REBID

Sealed proposals will be received by the staff of the Ingham County Road Commission until 2:00 P.M. local time on Tuesday, March 30, 2010, at the Ingham County Road Commission's Austin E. Cavanaugh Administration Building located at 301 Bush Street, P.O. Box 38, Mason, Michigan 48854; telephone number 517/676-9722 or 1-800-968-9733 at which time and place the proposals will be publicly opened and read.

Proposals are to be in sealed envelopes clearly marked on the outside as to the proposal number, time and date of bid opening. Proposals must be submitted on proposal blanks furnished by the Ingham County Road Commission.

**ITEM:** To furnish to the Ingham County Road Commission, its 2010 season's requirements of bituminous surfacing mixture No. 13A and 36A.

Bituminous surfacing mixture No. 13A and 36A shall meet the material requirement and other requirements of Section 501, Hot Mixed Asphalt Pavements, of the 2003 Standard Specifications for Construction of the Michigan Department of Transportation and shall also meet MDOT Supplemental Specifications for Bituminous Mixtures as included in this proposal.

The asphalt binder for the bituminous mixtures shall be PG-58-22. Bituminous mixtures are to be bid, loaded, in Ingham County Road Commission trucks, F.O.B. bidder's plant, and both types of mixtures are to be available for a period through November 24, 2010. It is the intent of the Ingham County Road Commission to receive bids for bituminous surfacing mixture with a one year renewal option, if mutually agreed upon between the awarded bidder and the Ingham County Road Commission.

The pay weights shall be determined by weighing the mix in the trucks on approved platform scales with the weigh-person being provided by the successful bidder.

**ITEM:** To furnish all materials, mix, load into Ingham County Road Commission trucks and weigh bituminous surfacing mix No. 13A and 36A.

<b>LOCATION OF ASPHALT PLANT:</b>

WORK ITEM	UNIT	EST. QUANT	UNIT PRICE	AMOUNT
Bituminous Mix 13A	TON	6,000 (more / less)		
Bituminous Mix 36A	TON	1,000 (more / less)		

\*\*The estimated total for plant pickup is 7,000 tons, more or less, for all mixtures.

TOTAL BID PRICE: \_\_\_\_\_

BIDDER:
BY (Signature):
TITLE:
ADDRESS:
TELEPHONE:
DATE:

BIDDER'S REMARKS OR EXCEPTIONS, IF ANY:

THE BOARD OF INGHAM COUNTY ROAD COMMISSIONERS RESERVES THE RIGHT TO REJECT ANY AND ALL PROPOSALS, OR TO WAIVE DEFECTS AND TO ACCEPT THE PROPOSALS IN PART OR ENTIRETY THAT IN THE OPINION OF THE BOARD ARE IN THE BEST INTEREST AND TO THE ADVANTAGE OF THE BOARD OF INGHAM COUNTY ROAD COMMISSIONERS AND THE COUNTY OF INGHAM, MICHIGAN.

MICHIGAN  
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION  
FOR  
MARSHALL HOT MIX ASPHALT MIXTURE

A. Description. This work shall consist of furnishing a Hot Mix Asphalt (HMA) mixture using Marshall Mixture Design Methods. The HMA mixture shall be provided according to the requirements of the Standard Specifications except where modified herein.

B. Mix Design. The HMA mixture design will be provided by the Contractor. The design will be submitted and evaluated according to the Procedures Manual for Mix Design Processing. All Marshall mixtures shall be compacted using a 50 blow Marshall hammer.

C. Recycled Mixtures. The contractor may substitute Reclaimed Asphalt Pavement (RAP) for a portion of the new materials required to produce HMA mixture. The mixture will be designed and produced to meet all of the criteria herein. RAP Materials shall conform to the requirements in the Standard Specifications.

D. Materials. The Mixture will consist of aggregates of the highest quality available to meet the minimum specifications herein. Table 1 provides the Mix Design Criteria and Volumetric Properties. Table 2 provides the required aggregate properties.

E. Measurement and Payment.

Contract Items (Pay Items)	Pay Unit
HMA, 13A, 36A	Ton

The mixture designation number is to be used when determining Mix Design properties from Tables 1 and 2.

**TABLE 1 - Volumetric Properties**

Mixture No.	2C	3C	40	13A	36A
Air Void % Target <sup>1</sup>	3.0	4.0	4.0	4.0	4.0
VMA(min) <sup>2</sup>	11.0	13.0	14.0	14.0	15.0
VFA	65-78	65-78	65-78	65-78	65-78
Fines to Binder Ratio (max) <sup>3</sup>	1.2	1.2	1.2	1.2	1.2
Flow (0.01 in.)	8-16	8-16	8-16	8-16	8-16
Stability Min. (lbs)	1200	1200	1200	900	900

1. Target Air Voids shall be lowered by 1.0% if used in a separate shoulder paving operation. Local government use of 13A and 36A mixtures may want to consider reducing air void targets to 3% for lower traffic volume roadways.

2. VMA calculated using Gsb of the combined aggregates.

3. Fines to binder Ratio. The weight of aggregate finer than the No. 200 sieve to total asphalt binder content by weight. Including fines and binder contributed by Reclaimed Asphalt Pavement (RAP).

**TABLE 2 - Aggregate Requirements**

Mixture No.	20	3C	4C	13A	36A
	Percent Passing Indicated Sieve				
1½ inches	100				
1 inch	91-100	100			
¾ inch	90 max.	91-100	100	100	
½ inch	78 max.	90 max.	91-100	75-95	100
3/8 inch	70 max.	77 max.	90 max.	60-90	92-100
No. 4	52 max.	57 max.	67 max.	45-80	65-90
No. 8	15-40	15-45	15-52	30-65	55-75
No. 16	30 max.	33 max.	37 max.	20-50	
No. 30	22 max.	25 max.	27 max.	15-40	25-45
No. 50	17 max.	19 max.	20 max.	10-25	
No. 100	15 max.	15 max.	15 max.	5-15	
No. 200	3-6	3-6	3-6	3-6	3-10
Crushed Min.%(MTM 117)	90	90	90	25	60
Soft Particle (max) % <sup>1</sup>	12.0	12.0	8.0	8.0	8.0
Angularity Index (min) <sup>2</sup>	4.0	4.0	4.0	2.5	3.0
L.A. Abrasion % Loss (max) <sup>3</sup>	40	40	40	40	40

Sand Ratio (max) <sup>4</sup>	-	-	-	50	50
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1. The sum of the Shale, Siltstone, Structurally Weak, and Clay-Ironstone particles shall not exceed 8.0 percent for aggregates used in top course. The sum of the Shale, Siltstone, Structurally Weak, and Clay-Ironstone particles shall not exceed 12.0 percent for aggregates used in base and leveling courses.

2. The fine aggregate angularity of blended aggregates, determined by MTM 118, must meet the minimum requirement. In mixtures containing RAP, the required minimum fine aggregate angularity must be met by the virgin material. NAA Fine Aggregate Angularity shall be reported for information only and must include the fine material contributed by RAP if present in the mixture.

3. Los Angeles Abrasion Maximum loss must be met for the composite mixture, however, each individual aggregate must be less than 50.

4. Sand Ratio for 13A and 36A no more than 50% of the material passing the No.4 sieve is allowed to pass the No. 30 Sieve.

**INGHAM COUNTY ROAD COMMISSION  
AFFIDAVIT OF EQUAL OPPORTUNITY**

As a condition of obtaining and/or maintaining a contractual relationship with the Board of Ingham County Road Commissioners, State of Michigan, it is hereby certified that this contractor, supplier or contracting organization agrees to provide equal employment opportunity to all employees and applicants and will not discriminate against any employee or applicant for employment because of race, color, religion, national origin, ancestry, age, sex, height, weight, marital status, political affiliations or beliefs, or citizenship, as required by law. The Contractor covenants that applicants are and will be employed and that employees are and will be treated during employment without regard to their race, color, religion, national origin, ancestry, age, sex, height, weight, marital status, political affiliations or beliefs, or citizenship. Such action shall include, but not be limited to, the following: Employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation and selection for training, including apprenticeships. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this non-discrimination policy.

The Contractor, supplier or contracting organization shall comply with Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Federal Rehabilitation Act of 1973 (29 USC 794), the Michigan Elliott Larsens Civil Rights Act (MCL 37.2101, et seq.), the Michigan Handicappers Civil Rights Act (MCL 37.1101, et seq.), as amended, and the Americans With Disabilities Act of 1990.

On behalf of this organization I hereby certify that compliance with the above Equal Opportunity Policy is now, and will continue to be, maintained.

COMPANY: \_\_\_\_\_

BY: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_