

HMA BASE CRUSH & SHAPE

Contractor must crush and shape the entire existing pavement and compact to 98% density. The crush and shape shall be in accordance with section 305 of the 2020 MDOT Standard Specifications. The contractor will be responsible for applying dust control as needed.

BITUMINOUS MATERIALS

All materials shall conform to the requirements of sections 501 of the 2020 MDOT Standard Specifications and special provisions contained herein. The HMA mixture for the levelling course shall be HMA 4EL and the top course shall be 5EL. Slag will not be permitted in mix design. The Performance Grade asphalt binder range for the mixture shall be PG 58-28 with 3.5% air voids. The Aggregate Wear Index shall be a minimum of 260 for this course. The Bituminous Bond Coat material shall be per Section 501.03.D. The uniform rate of application shall be 0.05 to 0.10 gallons per square yard.

HMA, 4E1, shall include furnishing and placing hot mix asphalt with an asphalt paver at a maximum yield of 275 pounds per square yard (2.50 inches) as the leveling course over the entire length and width of the project limits.

HMA, 5E1, shall include furnishing and placing hot mix asphalt with an asphalt paver at a maximum yield of 165 pounds per square yard (1.50 inches) as the top course over the entire length and width of the project limits.

PAVT, REM

Pavt, Rem shall be in accordance with section 204.04 B of the 2020 MDOT Standard Specifications. It shall consist of saw cutting the paved driveways approximately three feet from edge of metal and removing material. While paving, the contractor will wing out and place a three foot tab that butts up to saw cut edge.

SHOULDER, CLII

After completion of placing the two lifts of HMA, the shoulders shall be raised to the elevation of the new asphalt with a layer of MDOT 22A aggregate (or approved equal material) over the full width of the shoulder on each side of the new pavement. The gravel shall be uniformly applied with a shoulder widener, graded and rolled to 95% density.

SLOPE RESTORATION, TYPE B

Slope Restoration, Type B shall be in accordance with section 816 of the 2020 MDOT Standard Specifications and special provision 12RCC816 (A265). It shall be placed in any disturbed yard areas.

MAINTAINING TRAFFIC

The roadway will be restricted to one lane traffic with traffic regulators in accordance with HCRC's Maintaining Traffic Typical 4110A-M-TR-NFW-2L, Modified. Channelizing devices can be used on the shoulder while paving the multiple lifts during the transition from paving to laying shoulders. Temporary pavement marking is not required for this project. All traffic control shall be included in the pay item Minor Traf Devices.

Traffic Regulators shall be provided by the contractor with stop/slow paddles. If an open longitudinal center joint is left overnight, the contractor shall provide uneven pavement symbol signs, also. All signing and traffic control will be paid for separately.

SCHEDULE OF WORK

Paving cannot occur until after the insurance and contract have been approved with the successful bidder. The final completion date for all work is August 10, 2024. **No work shall be performed during race weekends nor MDOT recognized holidays.** Liquidated damages of \$500 per calendar day will be assessed for failure to complete all the work on time.

ITEMS OF WORK AND QUANTITIES

The following items of work are required to accomplish this project at the estimated quantities shown below:

<u>Items of Work</u>	<u>Estimated Quantities</u>
Mobilization	1 Lump Sum
Pavt, Rem	255 Square Yard
Aggregate Base, 22A	600 Ton
HMA Base Crushing and Shaping	8,435 Square Yard
Approach, CI II	10 Ton
Shoulder, CI II, 4 inch	355 Ton
4EL Leveling (2.5") 5EL Wearing (1.5")	2,100 Ton
Minor Traf Devices	1 Lump sum
Slope Restoration, Type B	50 Square Yard

The contractor shall understand that the quantities shown are approximate only and are subject to either increase or decrease. Unit prices shall govern and shall remain firm for the duration of the contract.

TESTING OF MATERIALS AND INSPECTION

All HMA mixtures shall be subject to quality control testing (QC) by the contractor and quality assurance testing (QA) by the county in accordance with MDOT's special provision 20SP-5011-01 "Acceptance of HMA mixture on Local Agency Projects", modified as follows: 1) The contractor will be required to collect all HMA (loose) samples at the plant and provide the engineer with splits of these samples for assurance testing. Provide one sample and test per day of paving. 2) The contractor will not be required to perform density coring.

The successful bidder shall furnish a mix design at least 2 weeks prior to the start of work for our approval. All work shall be subject to inspection and direction of the road commission's engineer or his authorized representative at all times. Payment will be based on satisfactory QC test results by the contractor and satisfactory QA testing by the county.

SUB-CONTRACTING

Prior to naming a subcontractor for any work item, the principal contractor must assure himself that each prospective subcontractor meets the following conditions: has sufficient equipment, work force, and supervision to complete the designated or specialty items to be subcontracted within the specified time limit and meets with the prior approval of the Hillsdale County Road Commission.

INSURANCE REQUIREMENTS

The contractor, prior to execution of the contract, shall file with the commission a certificate of insurance, in form satisfactory to the commission, showing that he has the following minimum amounts of insurance in force: general liability insurance with combined limits for bodily injury and property damage of \$500,000 and automobile liability insurance with combined limits for bodily injury and property damage of \$500,000 and workers' compensation insurance in statutory limits. The Board of County Road Commissioners shall be listed as an additional insured.

BID DEPOSITS AND BONDS

None required for this project.

BID SHEETS AND AWARD OF BIDS

Bids must be submitted on forms provided by the road commission. Please submit a bid on the bid sheet included. Bids are to be submitted in sealed envelopes clearly marked with the words "West Sauk Trail Bid".

The contractor shall fully examine the map, specifications, and the location of the work described herein. The contractor shall be fully informed as to the nature of the work and understand the same before submitting bid. Failure of the contractor to do so shall not be cause for an adjustment in unit prices. Please call the road commission office if you have questions about this bid. Direct questions to Bob Griffis, Manager.

Payment terms will generally be “NET 30 DAYS” from receipt of invoice; however, payment may be delayed up to a maximum of 60 days without interest penalty until funds are received from townships. We will try to pay at 30 days if at all possible.

The Board reserves the right to reject any item within this proposal, to reject any or all bids, to waive details in specifications, to waive irregularities in the bidding, and to accept the bids, which in their opinion, is in the best interest of the road commission.

Board of County Road Commissioners

County of Hillsdale

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