

**Manistee County Road Commission  
Specifications**

**2<sup>nd</sup> Street, 3<sup>rd</sup> Street, 4th Street, 5<sup>th</sup> Street, 6<sup>th</sup>  
Street, 9th Street, Portage Point Drive, Cherry,  
Madison, Linke & Preuss Roads**

**2025 HMA Resurfacing**

**Manistee County, Michigan**

**February 6, 2025**

Manistee County Road Commission  
Special Provision  
For  
**Maintaining Traffic**

KPM:PJM

Page 1 of 3

2/6/25

**General**

Traffic will be maintained in accordance with the standard specifications including any supplemental specifications and as herein specified. All traffic control devices and their usage shall comply with the 2011 edition of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD), as amended.

The Manistee County Road Commission (MCRC) may perform maintenance work within or adjacent to the Construction Influence Area (CIA). The MCRC will coordinate their operations to minimize the interference to the Contractor. No additional payment will be made to the Contractor for the joint use of the traffic control items.

**Construction Influence Area (CIA)**

The CIA limits shall include the area within the right-of-way for Seymour Street, Lake Park Drive, West Fairway, Midway Road and Bayview Road plus a distance in advance on roadways as required for the advance construction signing and traffic control devices. The CIA shall also extend down all intersecting roadways a distance of 550 feet.

**Traffic and Work Restrictions**

Conduct all work between sunrise and sunset local time. "Work" is defined as any activity on the project including the setting up and taking down of traffic control devices. No work shall be permitted on Sundays, holidays, or during special events unless approved by the MCRC due to special circumstances. Holiday periods are defined as:

Holiday	Start Date and Time	End Date and Time
Memorial Day	3:00 pm, Friday, 05/23/25	6:00 am, Tuesday, 05/27/25
Independence Day	3:00 pm, Thursday, 07/03/25	6:00 am, Monday, 07/07/25
Labor Day	3:00 pm, Friday, 08/29/25	6:00 am, Tuesday, 09/02/25

A minimum of one lane of traffic shall be maintained at all times. All lanes shall be opened for traffic at night. Work shall only be allowed on one side of the road at a time.

Manistee County Road Commission  
Special Provision  
For  
**Maintaining Traffic**

KPM:PJM

Page 2 of 3

2/6/25

Traffic shall be maintained with traffic regulator control in accordance with the attached Maintaining Traffic Typical:

- A. 100-GEN-KEY
- B. 101-GEN-SPACING-CHARTS
- C. 102-GEN-NOTES
- D. 103-GEN-SIGN
- E. 104-GEN-AB
- F. 107-GEN-SPEED
- G. 110-TR-NFW-2L
- H. 122-NFW-SHL-(R)

G20-2 (End Road Work) signs will not be required on this short duration project.

Access for commercial and residential drives within the project limits and for emergency services shall be maintained at all times during construction.

**Traffic Control Devices**

All warning signs shall be 48" x 48" mounted at a 5' minimum bottom height in uncurbed areas and 7' minimum bottom height in curbed or pedestrian areas.

Temporary Traffic Control Devices shall conform to the attached MDOT Work Zone Device Special Detail WZD-125-E.

All construction signs left in place for a duration exceeding 14 days will be on driven posts as per the MDOT Work Zone Device Special Detail WZD-100-A which is available on the MDOT website or available from the MCRC (upon request).

Quantities for traffic control devices have been estimated based on one sequence of Maintaining Traffic Typical 110-TR-NFW-2L, one sequence of 122-NFW-SHL-(R), plus five (5) W20-1 "Road Work Ahead" signs to be placed on the intersecting through roads a minimum of 550' in each direction from the centerline of the Road or as directed by the Engineer.

Manistee County Road Commission  
Special Provision  
For  
**Maintaining Traffic**

KPM:PJM

Page 3 of 3

2/6/25

**Temporary Pavement Markings**

Temporary centerline pavement markings shall be as required by the 2020 MDOT standard specifications and shall be used for temporary centerline placed daily on HMA top course. The temporary markings shall be placed in a single line of 4' strips for passing zones and a double line of 4' strips for no-passing zones, spaced 50' center-to-center.

**Measurement and Payment**

The completed work for Maintaining Traffic and for Temporary Pavement Markings, including furnishing and placement of all materials, labor, and equipment, will be measured and paid for at the contract unit price for the following contract items (pay items).

<b><u>Contract Item</u></b>	<b><u>Pay Unit</u></b>
Traffic Control.....	Lump Sum
Temporary Pavement Markings.....	Lump Sum

**Estimates of Maintaining Traffic Quantities**

Lighted Arrow, Type C, Furn, .....	2 Each
Lighted Arrow, Type C, Oper, .....	2 Each
Sign, Type B, Temp, Prismatic Furn .....	368 Square Foot
Sign, Type B, Temp, Prismatic Oper.....	368 Square Foot
Traf Regulator Control (with Intermediate Flaggers) .....	1 Lump Sum
Minor Traf Devices .....	1 Lump Sum

Estimated quantities for the items above are provided for information only. They shall be included in the lump sum pay items.

**MANISTEE COUNTY ROAD COMMISSION  
HMA APPLICATION ESTIMATE**

KPM:PJM

1 of 2

DATE: 2/6/25

**a. Description.-** This work shall be done in accordance with the requirements of Division 5 of the Michigan Department of Transportation (MDOT) Standard Specifications for Construction except as herein specified.

**b. Construction Methods.-** The construction methods shall be in accordance with Section 501 of the MDOT Standard Specifications for Construction.

**c. Tests.-** The Nuclear Gauge Method or Coring Method for testing the compaction is hereby waived for this project. The Number of Rollers Method chart below shall apply.

Average Laydown Rate, Square Yards Per Hour	Number of Rollers Required	
	Compaction Rollers	Finish Rollers
Less than 800	1	*1
800-1800	1	1
1800-4000	2	1
4000-7200	3	1

\*The compaction roller may also be used as the finish roller.

**Materials.-** The HMA, 4EL wedging course to correct existing distorted and damaged pavement areas and to modify cross slopes shall have a variable yield per square yard.

The HMA, 4EL top course for the HMA overlay shall have a yield of 165 pounds per square yard. Increase the HMA application rate as needed for the butt joints at the project POB and POE.

MANISTEE COUNTY ROAD COMMISSION  
HMA APPLICATION ESTIMATE

KPM:PJM

2 of 2

DATE: 2/6/25

The HMA Approach for paving HMA driveways will consist of HMA, 4EL and shall have a variable yield per square yard placed in one course. The yield shall increase where needed to match existing HMA thickness.

The Performance Grade asphalt binder grades for the HMA top course HMA, 4EL shall be 58-28.

Reclaimed Asphalt Pavement (RAP) in the HMA top courses shall not exceed 17% RAP binder by weight of total binder in the mixture.

The Target Air Void percentage shall be 3.5% for all HMA on this project.

The HMA Bond Coat material shall be per Section 501 of the MDOT Standard Specifications for Construction. The uniform rate of application shall be 0.05 to 0.15 gallons per square yard.

HMA Bond Coat is included with payment for HMA, 4EL and HMA Approach.

The Aggregate Wear Index (AWI) for all aggregates used in the HMA top course mixtures shall be a minimum of 220.

The Contractor shall provide an HMA mix design that meets the proposed HMA mixtures in these bid documents and in accordance with the MDOT Standard Specifications for Construction.

**The Contractor shall provide written certification that the HMA materials used on the projects meet the requirements of these bid documents, the HMA Application Estimate, and the MDOT Standard Specifications for Construction.**

The MCRC (or their Consultant) may obtain samples of the HMA mixtures from the HMA plant or the project site at their discretion to test the materials to verify conformance with the HMA mix design provided by the Contractor.

**a. Measurement and Payment.-** Measurement and Payment shall be at the contract unit price per ton of the HMA, 4EL and HMA Approach Items.

MANISTEE COUNTY ROAD COMMISSION

SPECIAL PROVISION  
FOR  
SLOPE RESTORATION

KPM/PJM

1 of 1

2-6-2025

**a. Description:**

This work shall be done in accordance with the requirements of section 816 of the 2020 Edition of the Michigan Department of Transportation Standard Specifications for Construction, except as specified herein.

**b. Materials:**

The following materials shall meet the requirements of Section 917 of the 2020 Standard Specifications for Construction, and as shown below:

<u>Material</u>	<u>Application Rate</u>
Topsoil Surface	4 inches minimum
<b>Seeding, Mixture THM</b>	220 #/Acre
Fertilizer, Chemical Nutrient, Cl A	176 #/Acre
Mulch Blanket	(Must be from MDOT Qualified Products list)

**c. Construction Methods:**

Topsoil, seed, fertilizer and high velocity mulch blanket meeting the requirements of the 2020 MDOT Standard Specifications for Construction will be placed on disturbed areas, or other areas as directed by the engineer, beyond the roadway shoulder. Topsoil shall be furnished by the contractor but salvaged topsoil may be used as approved by engineer. Topsoil depth shall be not less than 4 inches. The Contractor is responsible for determining the amount of existing topsoil that can be salvaged.

**d. Measurement and Payment:**

The completed work shall be measured and paid for at the contract unit price for the following contract pay item and includes all materials, equipment and labor necessary to complete this item as described above.

**Pay Item**

**Unit**

Slope Restoration

Square Yard

Payment for **Slope Restoration** will be measured by area in square yard in place. All materials, labor and equipment required to install **Slope Restoration**, which includes Topsoil Surface, Furnished or Salvaged; Fertilizer, Chemical Nutrient, Class A; Seeding Mixture; and Mulch Blanket will not be paid for separately but shall be included in the contract unit price bid for **Slope Restoration**.