

# **MECOSTA COUNTY ROAD COMMISSION**

## **REQUEST FOR PROPOSAL**

### **2024 COUNTY-WIDE CHIP & FOG SEAL**

#### **INTENT:**

Sealed bids will be received by the Mecosta County Road Commission administrative staff at 120 N. DeKrafft Ave., Big Rapids, Michigan, 49307 **until 3:00 p.m. Friday, February 16, 2024**, for Annual Bids. All bids will be opened Tuesday, February 20, 2024, 10:00 a.m. Your proposal must be sealed with the envelope clearly marked with your company name and the words “Chip & Fog Seal” on the outside.

#### **INSURANCE REQUIREMENTS:**

Contractors working within the road right-of-way shall have valid proof of Auto Liability, Worker’s Compensation and Commercial General Liability Insurance. Certificates shall be on file with the Road Commission prior to the start of any work, and **must** name the Mecosta County Road Commission, its Board of Road Commissioners, its Officers, its Agents, its Employees, and The Michigan Department of Transportation as “additional insured” and be endorsed as such on the liability insurance.

#### **INDEMNIFICATION:**

“To the fullest extent permitted by law, the (Contractor/Engineer/Architect) shall indemnify and hold harmless the Mecosta County Road Commission (or “Owner” or other designation used in the remainder of the Contract), its board of road commissioners, agents, employees, and the Michigan Department of Transportation from and against all claims, damages, losses, and expenses including, but not limited to, attorneys’ fees, arising out of or resulting from the performance of this Contract (or “Agreement” or other designation used in the remainder of the Contract) including claims, damages, losses, and expenses attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, but only to the extent caused by the fault, negligent acts, or omissions of the (Contractor/Engineer/Architect), a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by the parties indemnified hereunder. This obligation does not include an obligation to indemnify the parties indemnified hereunder for their sole negligence and shall not be construed to negate or modify other rights or obligations of indemnity that otherwise exist as to the parties or persons described herein.”

#### **PRE-QUALIFICATIONS:**

Bidders shall be pre-qualified by the Michigan Department of Transportation or have available, upon request, three references from previous work experience including the company name, address, phone, and a contact person.

#### **SUBCONTRACTING:**

The approval of the Road Commission shall be obtained prior to any substantial work being subcontracted. The contractor shall assure that any subcontractor named has sufficient equipment, insurance, and personnel to properly complete any item of work within the specified time.

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#### **EQUIPMENT:**

All equipment must meet the requirements under Section 505 of MDOT's 2020 Standard Specifications for Construction, except as modified herein:

##### **Pressure Distributor:**

The pressure distributor shall have a ground speed control device interconnected with the asphalt emulsion pump such that the specified application rate will be supplied at any speed. The pressure distributor shall be capable of maintaining the asphalt emulsion at the specified temperature. The spray bar nozzles shall produce a uniform fan spray, and the shutoff shall be instantaneous with no dripping. Each pressure distributor shall be capable of maintaining the specified rate of application within +/- 0.015 gallons per square yard for each load.

##### **Aggregate Chip Spreader:**

Use a self-propelled chip spreader, equipped with pneumatic tires and with a screen to remove oversized material, capable of uniformly spreading the cover material at the designated rate.

##### **Compacting Equipment:**

Use three self-propelled, pneumatic-tired rollers, weighing not less than 8 tons each.

##### **Broom/Sweeper:**

The use of a rotary-powered broom is required to remove the loose material from the surface to be treated and for removing loose aggregate after the work has been completed.

##### **Miscellaneous:**

Provide all equipment including hand tools, thermometers, etc. Equip all self-propelled equipment with at least one approved, flashing, rotating, or oscillating amber light, visible to traffic in all directions. Equip chip spreaders with one such light on each side of the spreader.

#### **PRE-PAVING MEETING:**

A pre-paving meeting will be held on site with the Superintendent before beginning work to discuss the following:

- Work schedule: Work is to be scheduled for completion in **June or July**.
- Traffic control plan.
- Equipment calibration and adjustments.
- Condition of materials and equipment, including transport units.
- Mix design(s) including job-mix-formula (JMF); coarse aggregate gradation; application rate of asphalt emulsion and coarse aggregate (by stationing and course).
- Contractor's quality control plan (method of yield check, etc.).

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#### **SEASONAL LIMITATIONS:**

The chip seal shall be placed when the pavement and the atmospheric temperature are above 55°F. Placement is not permitted when temperatures are forecasted to be below 40°F within 24 hours from the time of work. Placement is not permitted when the existing pavement temperature is 130°F or above.

#### **GENERAL PLACEMENT OPERATIONS:**

1. The contractor shall establish 1000-foot intervals along the entire length of the project, prior to placing materials. The stations shall be clearly identified and maintained until project completion.
2. Perform all surface preparation that may affect the performance of the chip seal. Remove all plastic pavement markings using an abrasion method. Remove markings just before the surfacing operation. Clean all pavements to be treated with a motorized power broom to remove all loose material. Clean all depressions not reached by the power broom using a hand broom. Thoroughly clean the outer edges of the pavement or shoulder. For single chip seal and double chip seal, extend cleaning 1 foot onto the adjacent paved shoulder.
3. Keep all vehicles and equipment involved in the chip sealing operation as close to each other as practical. Keep the asphalt emulsion distributor within 150 feet of the chip spreader. Do not place cover aggregate on asphalt emulsion after it breaks.
4. Locate longitudinal construction joints as follows:
  - Single chip seal-on a painted lane line or at the outside edge of the shoulder.
  - Intersections are to be done to spring point on black tops or end of HMA on gravels.
  - Double chip seal-place the joint to overlap the centerline by 6 inches for the first course and place the joint on the centerline for the second course.
  - Shoulder chip seal-at the edge of the driving lane or at a location requiring the least overlap onto the driving lane.
5. Perform rolling within two minutes of placing the coarse aggregate and before the asphalt emulsion has set up. Make a minimum of three complete passes over the coarse aggregate. A complete pass is one trip, forward and backward, over the same path. Overlap each pass by one-half the width of the roller. Use the rollers in a longitudinal direction at a speed not greater than 5 mph with the final pass in the direction of the chip spreader.
6. Use the appropriate equipment and perform an initial sweeping of the completed chip seal to remove excess loose aggregate before the end of each day's work or within 24 hours with the approval of the County Inspector. For single chip seal and double chip seal, sweep beyond the edge of pavement to help prevent migration of loose aggregate back onto the pavement. Do not sweep loose aggregate into lawns, curbed areas, or intersections.

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7. Before opening to traffic, place W8-7 (LOOSE GRAVEL) signs with 35 mph speed plaques mounted below. Place these signs throughout the completed work, beginning 50 feet before the treated area in the direction of oncoming traffic at a maximum spacing of 0.5 mile.
8. Before beginning the chip seal operation, protect all utility castings, monument boxes and raised pavement markers using tarpaper or other approved materials. Remove these protective coverings before sweeping and opening to traffic.
9. Allow the new surface sufficient cure time to prevent damage by vehicle tires before opening to traffic. Protect the new surface from potential damage at intersections and driveways. Repair all traffic damage to the new surface at the Contractor's expense.

#### **SUBMITTALS:**

Upon completion the contractor shall provide an inspector's daily report for each day work was performed containing the following information:

- Road name / project number
- Date / air temperature / pavement temperature / humidity
- Asphalt emulsion temperature
- Yield checks on asphalt emulsion
- Yield checks on coarse aggregate
- Length / width / total square yards
- Contractor's signature

Other required documentation:

- Aggregate Certification or Shipment of Tested Stock Report (MDOT Form 1922).
- Asphalt Emulsion: per current acceptance procedures.

The above submittals shall be placed in order by date in a folder with the certification statement in the back.

#### **APPLICATION:**

The contractor shall apply the asphalt emulsion at a temperature between 170°F and 190°F, followed by a uniform application of coarse aggregate.

#### **ASPHALT EMULSION - APPLICATION RATES:**

CRS-2M shall be spread at a target rate between 0.39 and 0.46 gallons per square yard.

CQSEA Emulsion shall be spread at a target rate between 0.07 and 0.15 gallons per square yard with a target rate of 0.12 gallons per square yard.

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If the target rate of gallons per square yard is not the optimum application rate due to the gradation of the coarse aggregate or due to existing surface conditions of the pavement, the contractor shall notify the Road Commission's inspector prior to application. All truck demurrage will be the responsibility of the contractor.

#### **COARSE AGGREGATE – APPLICATION RATES:**

The cover material to be used will be 34CS. The placement rate shall be within the range of 20 to 24 pounds per square yard.

If the target rate is not the optimum application rate due to the gradation of the coarse aggregate or due to existing surface conditions of the pavement, the contractor shall notify the Road Commission's inspector prior to application.

#### **DELAYED ACCEPTANCE:**

After 30 days from the time of placement of the chip seal, the Road Commission's inspector, in the company of the contractor, shall inspect the work for any deficiencies. These deficiencies will be limited to surface flushing, surface patterns, or loss of stone retention. All correction work shall be accomplished within seven (7) working days after notification or an agreed upon date. The contractor shall furnish the materials, equipment, and labor to make the identified corrections to the satisfaction of the Road Commission at no additional cost to the Road Commission.

#### **STOCKPILING AGGREGATE MATERIAL:**

The MCRC will provide several stockpile locations throughout the county; all provided stockpile locations would be located on property in which the Road Commission owns. If the contractor wishes to stockpile their material at a location not provided by the Road Commission, they would be doing so at their own risk and expense.

#### **MAINTAINING TRAFFIC:**

The contractor shall provide all equipment, labor, and materials to properly control traffic throughout the length of the project. All traffic control features shall be in accordance with the current Michigan Manual of Uniform Traffic Control Devices to protect the traveling public, their workforce, and the work.

Traffic control shall be provided at no additional cost to the Road Commission and shall be included in the cost per square yard.

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#### **MEASUREMENT AND PAYMENT:**

Completed work, as measured, will be paid for at the contract unit price for the following contract items:

<u>Pay Item</u>	<u>Pay Unit</u>
Single Chip Seal (Mainline)	Square Yard
Approach Work	Square Yard
Bar Seals	Square Yard
Fog Seal	Square Yard
TPM's	Per

Payment for the chip seal includes all **EQUIPMENT, LABOR, AND MATERIALS** for placement of a single or double application of asphalt emulsion, coarse aggregate, fog seal, brooming, establishment of yield intervals, maintaining traffic, and delayed acceptance inspection.

No adjustments in the unit price will be made for approved rate of asphalt emulsion and/or coarse aggregate that are within the ranges identified in Asphalt Emulsion and Coarse Aggregate Application

The contract unit price shall be payment in full for all labor and equipment needed to accomplish the work.

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**Chip & Fog Seal:** (There will be approximately +/-40 Miles)

Single Chip Seal (Mainline)

(34CS Slag & CRS-2m Emulsion): \_\_\_\_\_ (PER SQ/YD)

Single Chip Seal Approach Work

(34CS Slag & CRS-2m Emulsion): \_\_\_\_\_ (PER SQ/YD)

Single Chip Bar Seals

(34CS Slag & CRS-2m Emulsion): \_\_\_\_\_ (PER SQ/YD)

Fog Seal (CQSEA Emulsion): \_\_\_\_\_

(PER SQ/YD)

Yellow Bi-Directional TPM's

(Every 50' where directed by engineer): \_\_\_\_\_ (PER)

#### **NOTICE**

The Mecosta County Road Commission reserves the right to accept or reject any and all bids, or portions of bids, as deemed in the best interest of the Mecosta County Road Commission. The Board of Road Commissioners may waive any irregularities in any bid if it is in the best interest of the Road Commission to do so.

The undersigned understands and agrees that this document will constitute a contract if accepted by the Mecosta County Board of Road Commissioners and by signing agrees with everything from pages 1-7 of this document.

NOTE: If it is agreed upon by both parties, this bid may be extended for up to 36 months.

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

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

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

CITY, STATE, ZIP CODE \_\_\_\_\_

TELEPHONE/FAX #: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_

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