



Crawford County Road Commission

Donald A. Babcock, Managing Director

NOTICE TO BIDDERS

The Crawford County Road Commission will receive sealed bids until 2:30 p.m. (for a bid opening during the 4:30 meeting) on Thursday, February 29, 2024, at their Grayling office located at 500 Huron Street, Grayling, MI 49738, for furnishing the following:

TWO, TRAILER MOUNTED PORTABLE MESSAGE BOARDS

Specifications may be obtained by contacting the Crawford County Road Commission at the above address.

“The Crawford County Road Commission, in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 USC 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of gender, disability, race, color, or national origin in consideration for an award.”

Submit bid in a sealed envelope that is clearly marked with the words: “**Trailer Mounted Message Board**”. The Crawford County Road Commission reserves the right to reject any or all bids, to waive irregularities in the bid, to waive details in the specifications, to withhold any and all trade-in options of the Road Commission, and to accept the bid deemed to be in the best interest of Crawford County.

Board of Crawford County Road Commissioners

Ryan Halstead, Chairman
Gary Summers, Vice Chairman
Cris Jones, Commissioner
Scott Hanson, Commissioner
Ronald Larson, Commissioner

For publication:
Crawford County Avalanche

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CRAWFORD COUNTY ROAD COMMISSION
SPECIFICATIONS
FOR TWO, TRAILER MOUNTED MESSAGE BOARDS

The following is a list of Minimum Acceptable Requirements for Trailer Mounted Message Boards that are to be bid under this proposal. All blank spaces listing options or dimensions are to be filled in. If it is impossible to provide certain items that are required list all exceptions and options below. All bids are to include delivery of units to the Crawford County Road Commission's Grayling Garage @ 500 Huron Street, Grayling, Michigan 49738.

Trailer mounted message board (**TMMB**) consist of a message board, controller, and power supply, mounted on a heavy-duty towable trailer as specified below.

Message Board.

- Display shall measure at least 81 inches high by 142 inches long.
- Have a character height of 18 inches with 8 characters per line and a pixel matrix that is 5 pixels wide and 7 pixels high.
- Provide spacing between characters at least twice the element stroke width.
- Be either disk matrix, or LED, or both disk matrix and LED, capable of displaying three message lines.
- Include a photocell to regulate the internal lighting system.
- Include a sighting device to ensure required alignment.
- Disk matrix TMMB must have fluorescent lighting at the top and bottom of each message line.
- LED TMMB must have forced air ventilation and with filtered inlets to maintain the interior temperature within temperature limits for LEDs.

Legibility.

- TMMB must have an average legibility of 1,000 feet if viewed head-on and 10 degrees off center.

Controller. Controllers for TMMB must be equipped with the following:

- Micro-processor-based unit with a storage capacity of at least 50 preprogrammed messages.
- Non-volatile memory capable of holding the keyboard created messages in memory during a non-power period.
- Password security feature to prevent unauthorized use.
- Message display capable of displaying a variable message at a rate of 0.25 second increments or correlated to 0.25 second increments.

- Message display panel showing the message on the sign or created on the keyboard, and capable of giving the operator programming instructions.

Electrical/Electronics. Control cabinet for TMMB must be equipped with the following:

- Lockable door and an interior light for night operations
- Ventilated cabinet with screen covering on the vents to prevent damage from insects.
- NEC 400-10 and NEC 400-14 compliant connections to control cabinets and sign board.
- International Municipal Signal Association Wiring and Cable Specifications 20-1, 20-2, 20-5, and 20-6 compliant external electrical wiring.
- Shock-mounted sign electronics, to reduce vibration. Provide shock mountings in the circuit designs, mechanical supports for drive transistors, and in the type of conformal coating.
- Printed circuit boards mounted with spring-load tension screws for ease of access and removal.

Power Supply. Power supply to the TMMB must be a maintenance free battery with the following backup system:

Solar, with a built-in 115 VAC battery charger, capable of sequencing a message for 18 days to 21 days consecutively without sun in 16 °F weather conditions.

Trailer.

- The TMMB trailer must be painted in highway orange.
- Delineate the trailer with a 4-inch by 18-inch strip, or an equivalent area of reflectorized red and white conspicuity tape, installed on each of the four sides of the trailer. Locate these strips at each corner of the trailer.
- The trailer must conform to the Michigan Vehicle Code with a nonskid upper surface.
- The TMMB must be mounted to the trailer with a sign panel support that moves up, down, and rotates 360 degrees, with a safety bolt to prevent the sign panel from lowering once in the raised position.
- The support must be equipped with a hydraulic system that includes a manual pump with manual release for use as a backup for the electric hydraulic pump.

- The bottom of the sign panel must be at least 7 feet above the roadway when in operating mode.
- 2 inch Reese style ball hitch for towing
- Hydraulic Surge Brakes.

Manuals and software.

- Shop, parts and maintenance manuals will be provided.
- All cables and connections required for communication will be provided.

BID SHEET

Year, Make Model: _____

Display Dimensions _____

Bid Price \$ _____.

Option for Remote Communications: _____.

Bid Price with Remote Communications Option. _____.

Bid firm for: _____ days. **Delivery Date:** _____.

Company Name Telephone Number

Address Date

 Signature

Contact email address.

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