

The Michigan Department of Transportation (MDOT) is seeking professional services for the project contained in the attached scope of services.

If your firm is interested in providing services, please indicate your interest by submitting a Proposal, Proposal/Bid Sheet or Bid Sheet as indicated below. The documents must be submitted in accordance with the latest "Consultant/Vendor Selection Guidelines for Service Contracts" and "Guideline for Completing a Low Bid Sheet(s)", if a low bid is involved as part of the selection process. **Referenced Guidelines are available on MDOT's website under Doing Business > Vendor/Consultant Services > Vendor/Consultant Selections.**

## RFP SPECIFIC INFORMATION

BUREAU OF HIGHWAYS

BUREAU OF TRANSPORTATION PLANNING \*\*

OTHER

THE SERVICE WAS POSTED ON THE ANTICIPATED QUARTERLY REQUESTS FOR PROPOSALS

NO

YES

DATED \_\_\_\_\_

THROUGH \_\_\_\_\_

**Prequalified Services** – See page \_\_\_ of the attached Scope of Services for required Prequalification Classifications.

**Non-Prequalified Services** - If selected, the vendor must make sure that current financial information, including labor rates, overhead computations, and financial statements, if overhead is not audited, is on file with MDOT's Office of Commission Audits. This information must be on file for the prime vendor and all sub vendors so that the contract will not be delayed. **(Form 5100J Required with Proposal)**

**Qualifications Based Selection** – Use Consultant/Vendor Selection Guidelines

**For all Qualifications Based Selections**, the section team will review the information submitted and will select the firm considered most qualified to perform the services based on the proposals. The selected vendor will be contacted to confirm capacity. Upon confirmation, that firm will be asked to prepare a priced proposal. Negotiations will be conducted with the firm selected.

**\*\*For RFP's that originate in Bureau of Transportation Planning only**, a priced proposal must be submitted at the same time as, but separate from, the proposal. Submit directly to the Contract Administrator/Selection Specialist, Bureau of Transportation Planning (see address list, page 2). The priced proposal must be submitted in a sealed envelope, clearly marked "**PRICE PROPOSAL.**" The vendor's name and return address **MUST** be on the front of the envelope. The priced proposal will only be opened for the highest scoring proposal. Unopened priced proposals will be returned to the unselected vendor(s). Failure to comply with this procedure may result in your priced proposal being opened erroneously by the mail room.

**For a cost plus fixed fee contract**, the selected vendor must have a cost accounting system to support a cost plus fixed fee contract. This type of system has a job-order cost accounting system for the recording and accumulation of costs incurred under its contracts. Each project is assigned a job number so that costs may be segregated and accumulated in the vendor's job-order accounting system.

**Qualifications Review / Low Bid** - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions for additional information.

For Qualification Review/Low Bid selections, the selection team will review the proposals submitted and post the date of the bid opening on the MDOT website. The notification will be posted at least two business days prior to the bid opening. Only bids from vendors that meet proposal requirements will be opened. The vendor with the lowest bid will be selected. The selected vendor may be contacted to confirm capacity.

**Best Value** - Use Consultant/Vendor Selection Guidelines. See Bid Sheet Instructions below for additional information. The bid amount is a component of the total proposal score, not the determining factor of the selection.

**Low Bid** (no qualifications review required - no proposal required.) See Bid Sheet Instructions below for additional instructions.

## BID SHEET INSTRUCTIONS

A bid sheet(s) must be submitted in accordance with the "Guideline for Completing a Low Bid Sheet(s)" (available on MDOT's website). The Bid Sheet(s) is located at the end of the Scope of Services. Submit bid sheet(s) separate from the proposal, to the address indicated below. The bid sheet(s) must be submitted in a sealed manila envelope, clearly marked "**SEALED BID.**" The vendor's name and return address **MUST** be on the front of the envelope. Failure to comply with this procedure may result in your bid being opened erroneously by the mail room and the bid being rejected from consideration.

**PROPOSAL SUBMITTAL INFORMATION**

REQUIRED NUMBER OF COPIES FOR PROJECT MANAGER	PROPOSAL/BID DUE DATE	TIME DUE
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**PROPOSAL AND BID SHEET MAILING ADDRESSES**

Mail the multiple proposal bundle to the MDOT Project Manager or Other indicated below.

MDOT Project Manager

MDOT Other

Mail one additional stapled copy of the proposal to the Lansing Office indicated below.

Lansing Regular Mail	OR	Lansing Overnight Mail
Secretary, Contract Services Div - B470 Michigan Department of Transportation PO Box 30050 Lansing, MI 48909		Secretary, Contract Services Div - B470 Michigan Department of Transportation 425 W. Ottawa Lansing, MI 48933
Contract Administrator/Selection Specialist Bureau of Transportation Planning B470 Michigan Department of Transportation PO Box 30050 Lansing, MI 48909		Contract Administrator/Selection Specialist Bureau of Transportation Planning B470 Michigan Department of Transportation 425 W. Ottawa Lansing, MI 48933

**GENERAL INFORMATION**

Any questions relative to the scope of services must be submitted by e-mail to the MDOT Project Manager. Questions must be received by the Project Manager at least four (4) working days prior to the due date and time specified above. All questions and answers will be placed on the MDOT website as soon as possible after receipt of the questions, and at least three (3) days prior to the RFP due date deadline. The names of vendors submitting questions will not be disclosed.

MDOT is an equal opportunity employer and MDOT DBE firms are encouraged to apply. The participating DBE firm, as currently certified by MDOT’s Office of Equal Opportunity, shall be listed in the Proposal

**MDOT FORMS REQUIRED AS PART OF PROPOSAL SUBMISSION**

**5100D** – Request for Proposal Cover Sheet

**5100J** - Consultant Data and Signature Sheet (Required only for Non-Prequalified Work)

**(These forms are not included in the proposal maximum page count.)**

Michigan Department of Transportation

**SPECIAL BIDDING INFORMATION  
FOR  
TRAFFIC AND SAFETY SERVICES  
Retro-Reflectivity Measurements**

The Michigan Department of Transportation (MDOT) will receive sealed bids from firms to provide retro-reflectivity readings of waterborne paint and spray thermoplastic pavement marking material in report form for fourteen Regions/Transportation Service Centers (TSCs) numbered below:

1. **Bay Region**, JN 111129, which consists of the following counties: Arenac, Bay, Clare, Genesee, Gladwin, Gratiot, Huron, Isabella, Lapeer, Midland, Saginaw, Sanilac, and Tuscola
2. **Grand Region**, JN 111138, which consists of the following counties: Ionia, Kent, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, and Ottawa
3. **Metro Region**, JN 111135, which consists of the following counties: Macomb, Oakland, St. Clair, and Wayne
4. **North Region** which consists of the following TSCs:
  - a. **Alpena TSC**, JN 111125, which consists of the following counties: Alcona, Alpena, Iosco, Montmorency, Oscoda, and Presque Isle
  - b. **Cadillac TSC**, JN 111137, which consists of the following counties: Lake, Manistee, Mason, Missaukee, Osceola, and Wexford
  - c. **Grayling TSC**, JN 111132, which consists of the following counties: Cheboygan, Crawford, Emmet, Ogemaw, Otsego, and Roscommon
  - d. **Traverse City TSC**, JN 111127, which consists of the following counties: Antrim, Benzie, Charlevoix, Grand Traverse, Kalkaska, and Leelanau
5. **Southwest Region**, which consists of the following TSCs:
  - a. **Coloma TSC**, JN 111126, which consists of the following counties: Berrien, Cass, and Van Buren
  - b. **Kalamazoo TSC**, JN 111139, which consists of the following counties: Allegan, Kalamazoo, and St. Joseph
  - c. **Marshall TSC**, JN 111142, which consists of the following counties: Barry, Branch, and Calhoun
6. **Superior Region**, JN 111134, which consists of all counties in Michigan's Upper Peninsula

7. **University Region**, which consists of the following TSCs:
- a. **Brighton TSC**, JN 111141, which consists of the following counties: Livingston, Monroe, and Washtenaw
  - b. **Jackson TSC**, JN 111128, which consists of the following counties: Hillsdale, Jackson, and Lenawee
  - c. **Lansing TSC**, JN 111133, which consists of the following counties: Clinton, Eaton, Ingham, and Shiawassee

MDOT proposes to enter into a contract or contracts for retro-reflectivity readings and the corresponding reports in each numbered Region/TSC listed above. Consultants interested in any or all of the Regions/TSCs listed above should **submit a bid sheet for each one to be considered, in accordance with the "Guidelines for Completing a Low Bid Sheet and Acceptance/ Rejection of Bids"**

**Bids are due by July 22, 2011, at 1:00 p.m. local time to:**

Gisso Shams, Consultant Coordinator  
Michigan Department of Transportation  
Traffic and Safety Support Area  
425 W. Ottawa St.  
Lansing, Michigan 48933  
(517) 241-0232

The lowest "Total Bid" price from the bid sheets for each Region/TSC will be used for selection. Multiple selections and contracts may result from this advertisement.

**A public bid opening will be held on July 22, 2011, at 1:30 p.m. at the following location:**

Michigan Department of Transportation  
Traffic and Safety Support Area  
425 W. Ottawa St.  
Lansing, Michigan 48933

Consultants need not be present at the bid opening, but are welcome to attend.

**GENERAL NOTICE:**

Bids must be signed by an agent authorized to bind the Consultant. Bids must remain valid for a period of at least 120 days from the bids due date.

All information in a Consultant's proposal/bid and any contract resulting from it are subject to disclosure under the provisions of the "Freedom of Information Act," 1976 Public Act No. 442, as amended, MCL 15.231, et seq.

The contents of the selected Consultant's proposal/bid shall become contractual obligations if a contract ensues. Failure of the selected Consultant to accept these obligations and/or honor these bids will result in cancellation of the contract.

Any questions should be submitted by e-mail to Jill Morena at [morenaj@michigan.gov](mailto:morenaj@michigan.gov). Questions must be received no less than four business days prior to the bids due date.

Michigan Department of Transportation

**SCOPE OF SERVICES  
FOR  
TRAFFIC AND SAFETY SERVICES**  
Fiscal Year 2011 Retro-Reflectivity Measurements

**CONTROL SECTION:** 84900

**JOB NUMBER(S) AND LOCATIONS:**

<b>Location 1</b>	JN 111125	Alpena TSC
<b>Location 2</b>	JN 111129	Bay Region
<b>Location 3</b>	JN 111141	Brighton TSC
<b>Location 4</b>	JN 111137	Cadillac TSC
<b>Location 5</b>	JN 111138	Grand Region
<b>Location 6</b>	JN 111132	Grayling TSC
<b>Location 7</b>	JN 111128	Jackson TSC
<b>Location 8</b>	JN 111133	Lansing TSC
<b>Location 9</b>	JN 111135	Metro Region
<b>Location 10</b>	JN 111126	Coloma TSC
<b>Location 11</b>	JN 111139	Kalamazoo TSC
<b>Location 12</b>	JN 111142	Marshall TSC
<b>Location 13</b>	JN 111134	Superior Region
<b>Location 14</b>	JN 111127	Traverse City TSC

**PROJECT DESCRIPTION:**

Provide retro-reflectivity measurements of waterborne paint and spray thermoplastic pavement marking material in report form. Measurements will be taken on rumble strips and are to be reported with non-rumble strips locations.

**ANTICIPATED SERVICE START DATE:** August 22, 2011

**ANTICIPATED SERVICE COMPLETION DATE:** November 30, 2011

**PRIMARY PREQUALIFICATION CLASSIFICATION(S):** N/A

**SECONDARY PREQUALIFICATION CLASSIFICATION(S):** N/A

**DBE REQUIREMENT:** N/A

**MDOT PROJECT ENGINEER MANAGER:**

Jill G. Morena, Sr. Pavement Marking/ Rumble Strip Engineer  
Traffic Operations  
Michigan Department of Transportation  
P.O. Box 30050  
Lansing, MI 48909  
Phone: 517-373-3340  
Fax: 517-241-2567  
E-mail: [morenaj@michigan.gov](mailto:morenaj@michigan.gov)

**BACKGROUND:**

The Michigan Department of Transportation (MDOT) has mobile retro-reflectivity measurements taken on 10 to 20 percent of all state trunklines each year between September 1 and October 31. Continuous reflectivity measurements are taken, over a minimum of two miles, and averaged together for each test section.

These measurements allow MDOT to monitor the quality of markings on the roadways and are used to adjust final payment to pavement marking Contractors.

Reflectivity measurements taken on centerlines striped in the rumble strips are to be reported with measurements taken on centerlines striped on non-rumbled locations.

MDOT also requires that 10 to 20 percent of the freeway shoulder rumble strip markings located in the North Region be measured this year.

MDOT is seeking bids for the retro-reflective measurement of waterborne and/or sprayable thermoplastic pavement marking materials on the pavement marking projects in the locations noted previously.

Measurement quantities per Region or TSC have been listed separately on the attached Bid Quantity Sheets.

**CONSULTANT RESPONSIBILITIES:**

A minimum of one week prior to starting work, the Consultant will provide the Project Manager, Contractor and appropriate Construction staff a schedule of work to be completed for the first week. Thereafter, the Consultant will provide a weekly schedule to the Project Manager and appropriate Construction staff to ensure the program is properly measured.

The Consultant shall work directly with appropriate Construction staff and the pavement marking Contractor to obtain completed contract work records. Since the retro-reflective

measurements on each route are random, the resulting final retro-reflective measurements shall be considered representative of the entire route.

The contract work includes the following tasks:

1. Performing fall retro-reflective measurements on products placed in 2011.
2. Identification of the Manufacturer/ Supplier of the products placed in 2011 (bead and binder) used at each location to be measured.
3. Issuing a report (and videotape if needed) on the 2011 data by November 30, 2011.

Failure to complete the above tasks as described in this scope of services may initiate termination of the contract.

### **Equipment and Personnel Requirements**

Quality assurance documentation shall be provided by the Consultant to indicate that a daily calibration process has been done successfully on the measurement equipment.

Equipment requirements for this work shall be 30 meter mobile laser technology. Use of other mobile equipment or use of hand-held equipment will not be allowed.

For quality control purposes a maximum of three different 30 meter mobile lasers can be used on this project.

Use ROADWARE data acquisition software to maintain compatibility with the MDOT's historical retro reflectivity data.

### **Field Work**

#### **Progress Schedule-**

All yellow marking data collection for measurements is to be performed between September 1, 2011 and October 30, 2011. All white markings data collection for measurements is to be performed between October 1, 2011 and October 30, 2011, except as noted below:

**In the Superior Region**, all yellow markings data collection for measurements is to be performed between September 1, 2011 and October 15, 2011. All white markings data collection for measurements is to be performed between September 15, 2011 and October 15, 2011.

**In the North Region**, all yellow markings data collection for measurements is to be performed between September 1, 2011 and October 23, 2011. All white markings data collection for measurements is to be performed between September 22, 2011 and October 23, 2011.

For all measurements, a videotape overlay showing the measurements and a video of the roadway shall be required on any sites the Consultant measures at or below 100 millicandelas (mcd).

## Reports

Fourteen (14) 2011 reports will be issued. These reports and any videotapes will be due Nov 30, 2011.

Waterborne and Sprayable Thermoplastic measurements are to be identified and separated for the average measurements.

Identify the Manufacturer /Supplier of the bead and binder used at each location measured.

For the Consultant's information and use in the reports, pages 10-12 of this document are the "Special Provision for Waterborne and Sprayable Thermoplastic Pavement Markings-Adjusted Payment" for the pavement marking contracts which are being measured.

This special provision includes adjusted bid price ranges for yellow and white markings based on retro reflectivity measurements.

### **All measurement reports shall contain the following:**

- Route identification.
- Date and direction the route is measured.
- Location of the section measured so MDOT personnel or the Contractor may return to the exact location to review the measurement site. The description shall include as a minimum, the control section, the starting and stopping point by control section mileage point, and a physical description of the start point (i.e. Main St.).
- Average of each line per route measured.
- Line average for each line and color by material type and line width.
- Identification of material type (i.e. waterborne or sprayable thermoplastic).
- Identification of material Supplier and bead Supplier.
- Identification of the measurements taken on rumble strips (centerline or shoulder rumble strips).
- Measurement vehicle/laser identification number.
- Breakdown of the percentage of adjustment by route.
- Comparison of the data collected on each route to the adjusted pay schedule listed in the proposal.

Sample Tables for use in Reports (**for format only**) are as follows:

Table 1

Waterborne 4" Yellow Markings (Centerline)			
RL Range	# of CL Sites	% of Site	Adjust Bid Price %
> 185	17	21.25%	Increase 15%
140-185	33	41.25%	Bid Price
125-139	30	37.50%	Decrease 15%
101-124	0	0.00%	Decrease 50%
< 101	0	0.00%	Decrease 80%
TOTAL	80	100.00%	

Table 2

Survey Date	MI Route	CS	BMP	EMP	RL Direction	Line Type	Material Type	Line Width	Ave mcd	Start PT Description
9/13/2010	US-10	69011	3	1	S	CL	WB	4	196	Jct M-35
9/13/2010	US-10	69011	0	2	N	CL	WB	4	192	S Jct I-75
9/13/2010	US-10	20032	4	2	S	CL	WB	4	155	1 mile N M-
9/13/2010	US-10	20032	6	4	S	CL	WB	4	149	Jct US-23
9/13/2010	US-10	65033	6	8	N	CL	WB	4	159	Riggsville F

Ave Yellow Centerline WB = 170.2

The Consultant will provide four (4) bound copies of each report. Provide a copy of each report on CD.

Provide one video of areas under 100 mcd per Region or TSC, if needed.

**Liquidated damages in the amount of \$1,000.00 per report per day may be assessed against the measurement contract for each day the report is not delivered to the Project Manager.**

### Summary of Data Files

The Consultant will provide a database table, or delimited text file containing a summary of **all raw data** collected in the Region or TSC. The electronic file must be capable of being directly uploaded into the Department's database.

### Among other things, this file shall contain:

1. Control Section
2. Actual mile point
3. Pavement marking product type
4. Material Manufacturer
5. Bead type and Supplier
6. A count of the 0.1 mile station averages falling within specified ranges

The summary of data files shall be delivered to the Project Manager or designee prior to final payment.

**Use ROADWARE data acquisition to maintain compatibility with the MDOT historical retro reflectivity data.**

**REQUIRED GUIDELINES AND STANDARDS:**

**Safety:** The Consultant shall perform field operations in accordance with the Department's Personal Protective Equipment (PPE) Policy as stated in the MDOT Guidance Document #10118. The Consultant shall perform field operations in accordance with MIOSHA regulations and accepted safety practices.

**MEASUREMENT AND PAYMENT:**

Travel and sustenance are included in the pay items below and are the responsibility of the Consultant.

The pay items **Retro-Reflectivity Measurement, White, 4 inch, Retro-Reflectivity Measurement, White, 6 inch, Retro-Reflectivity Measurement, Yellow, 4 inch and Retro-Reflectivity Measurement, Yellow, 6 inch** includes all mobilization, labor, equipment, sampling, data files, and analysis of retro-reflective measurements. The Project Manager will be provided with a copy of the analytical results as described in this scope of services. This item will be paid for at the unit price per foot within the maximum quantity indicated for the line item.

The Consultant shall ensure the measurements taken are from the proper Contractor-related work area. Work measured that is identified in an area other than the assigned measurement project area will not be paid for.

**The Consultant shall not exceed the proposed quantity shown in the pay items. Any quantities measured beyond proposed plan quantities will not be paid for by the Department without prior written approval from the Project Manager.**

The Department will not make final payment until all reports have been issued, the adjusted bid prices have been administered, and the pavement marking Contractor's contract with the Department has been finalized.

**PAYMENT SCHEDULE:**

Payment for this project work shall be by **lump sum based on bid price units**.

**CONSULTANT PAYMENT:**

Compensation for this project shall be on a **lump sum** basis. One lump sum payment will be made once the deliverable is received and approved by the MDOT Project Manager. The MDOT Project Manager may authorize partial payment if the project is delayed due to circumstances beyond the consultant's control.

All billings for services must be directed to the Department and follow the current guidelines. The latest copy of the "Professional Engineering Service Reimbursement Guidelines for Bureau of Highways" is available on MDOT's website. This document contains instructions and forms that must be followed and used for billing; payment may be delayed or decreased if the instructions are not followed.

Payment to the Consultant for services rendered shall not exceed the maximum amount unless an increase is approved in accordance with the contract with the Consultant. Typically, billings must be submitted within 60 days after the completion of services. Refer to your contract for your specific contract terms.

MICHIGAN  
DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION  
FOR  
**WATERBORNE AND SPRAYABLE THERMOPLASTIC  
PAVEMENT MARKING-ADJUSTED PAYMENT**

OPR:JGM

1 of 3

C&T:APPR:TES:DBP:01-11-11

**a. Description.** Payment for waterborne and sprayable thermoplastic pavement markings applied under this contract will be subject to adjustment, depending on the value of retro-reflectivity measurements obtained by the Department.

**b. Measurement.** All 4 inch and 6 inch longitudinal markings applied on this project, both waterborne and sprayable thermoplastic, are subject to pay adjustment, including markings applied over rumble strips. If any locations measure below 100 millicandelas, the Department will determine if these locations, or other areas not measured, require additional review. The Contractor will be notified of any deficiencies. If the Department determines the deficiency is the result of field conditions, the identified areas will not be subject to pay adjustment but will be paid at the contract bid price.

1. Sampling Procedure. Approximately 20 percent of each route will be measured to determine adjustment factors. Measurements will be taken in approximate 2-mile segments, chosen to be representative of the entire route.

2. Method of Measurement. Within each 2-mile segment, markings will be measured continuously by a mobile retro-reflectometer using 30 meter geometry and an average reading will be produced for each measured line. For 4 inch yellow centerline, the Pavement Marking Contractor will provide the Retro-Reflectivity Measurement Contractor the direction in which the marking was placed. The Retro-Reflectivity Measurement Contractor will measure half of the 2-mile segments in the Region or TSC in the direction of striping and the other half in the opposite direction.

3. Timing of Measurement. Measurements on yellow markings will be taken between September 15 and October 31. Measurements on white markings will be taken between October 1 and October 31. Lines placed after the final completion date for longitudinal lines plus any extensions due to inclement weather, will not be eligible for a positive pay adjustment, but are still subject to negative pay adjustment as described herein.

**c. Pay Adjustment.** Use of Readings to Determine Bid Amount Adjustment. Contract bid amounts for each material width and color line will be adjusted as follows: All project segments for a given type of material and color will be assigned an equal amount of lineal footage in that category. (For example, if there are 80 measurements taken of 4 inch yellow waterborne center line, each measurement will be assumed to represent 1/80th of the total contract quantity of 4 inch yellow waterborne.)

The average retro-reflectometer reading will be used to determine the pay adjustment factor from Table 1 for each measured line within a 2-mile measurement segment:

An adjustment factor, as described above, will be determined for each individual segment. The adjustment factor determined for each segment will be multiplied by the lineal footage represented by that segment times the unit price, to determine the payment adjustment. The individual pay adjustments will then be summed to determine the net project increase or decrease in bid amount for each contract item subject to adjustment.

**Table 1. Adjustment Factors**

White Lines		Yellow Lines	
Ave. Segment Reading (in millicandelas)	Adjustment Factor	Ave. Segment Reading (in millicandelas)	Adjustment Factor
≥375	+0.15	≥186	+0.15
251- 374	0	140-185	0
175 - 250	-0.15	125-139	-0.15
101-174	-0.50	101-124	-0.50
≤100	-0.80	≤100	-0.80

**d. Incentives and Deductions.** If the cumulative pay adjustment is a positive number, the Contractor is entitled to an incentive payment up to the maximum amount shown in Table 2 for the specific job number they are working on. This incentive will be added to the bid amount due to the Contractor based on the quantities placed and the unit price bid for each job number. If the cumulative pay adjustment is a negative number, the Contractor will receive a deduction up to the maximum amount shown in Table 2 for the specific job number they are working on. This deduction will be subtracted from the bid amount due to the Contractor based on the quantities placed and the unit price bid for each job number.

**Table 2. Maximum Incentive/Deduction**

Location	2011 Job Number	Maximum Incentive	Maximum Deduction
Grand Region	111138	75,000.00	300,000.00
Traverse City TSC	111127	20,000.00	80,000.00
Brighton TSC	111141	20,000.00	80,000.00
Marshall TSC	111142	20,000.00	80,000.00
Coloma TSC	111126	20,000.00	80,000.00
Cadillac TSC	111137	20,000.00	80,000.00
Jackson TSC	111128	20,000.00	80,000.00
Bay-Long Lines	111129	75,000.00	300,000.00
Grayling TSC	111132	20,000.00	80,000.00
Lansing TSC	111133	20,000.00	80,000.00
Alpena TSC	111125	20,000.00	80,000.00
Superior Region	111134	75,000.00	300,000.00
Metro-Long Lines	111135	75,000.00	300,000.00
Kalamazoo TSC	111139	20,000.00	80,000.00

**e. Delayed Acceptance of Contract.** Final acceptance of completed pavement marking work may be delayed 30 days beyond completion of retro-reflectivity measurement, to allow time for the computation of pay adjustment factors.

**f. Measurement and Payment.** Any incentive earned by the contractor as detailed in this special provision will be paid for using the following contract item (pay item):

**Contract Item (Pay Item)**

**Pay Unit**

Incentive, (job number)

## Retro-Reflectivity Measurements on Various Routes Statewide

All entries made on this page shall be handwritten in ink.

### Alpena TSC

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	788790	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	296,499	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

## **Retro-Reflectivity Measurements on Various Routes Statewide**

All entries made on this page shall be handwritten in ink.

### **Bay Region**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	3,000,000	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	1,744,000	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

## **Retro-Reflectivity Measurements on Various Routes Statewide**

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**Brighton TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	178,474	Foot		
	6 inch	818,795	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	264,931	Foot		
	6 inch	503,951	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

All entries made on this page shall be handwritten in ink.

**Cadillac TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	1,113,702	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	504,437	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Traverse City TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	128,843	Foot		
	6 inch	948,744	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	644,911	Foot		
	6 inch	68,765	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

All entries made on this page shall be handwritten in ink.

**Grand Region**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	2,190,117	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	1,472,082	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Grayling TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	1,312,496	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	830,341	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Jackson TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	709,136	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	435,100	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Lansing TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	853,000	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	667,750	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Metro Region**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	1,620,000	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	1,330,267	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Coloma TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	1,128,300	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	667,800	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Kalamazoo TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	776,388	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	542,179	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Marshall TSC**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	67,512	Foot		
	6 inch	609,202	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	308,101	Foot		
	6 inch	181,192	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.  
 Check "UNIT PRICE" column for omissions before entering bid total.

**Retro-Reflectivity Measurements on Various Routes Statewide**

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**Superior Region**

ITEMS OF WORK		QUANTITY	UNIT	UNIT PRICE	TOTAL
Retro-Reflectivity Measurement, White,	4 inch	3,625,974	Foot		
	6 inch	0	Foot		
Retro-Reflectivity Measurement, Yellow,	4 inch	1,643,490	Foot		
	6 inch	0	Foot		

Total Bid: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Consultant Signature: \_\_\_\_\_

Date: \_\_\_\_\_

The Michigan Department of Transportation reserves the right to reject any or all bids.

Check "UNIT PRICE" column for omissions before entering bid total.