
The City of Traverse City

Office of the City Manager
(231) 922-4440

GOVERNMENTAL CENTER
400 Boardman Avenue
Traverse City, Michigan
49684



August 20, 2014

Vendor:

The City of Traverse City will receive sealed bids in the Office of the City Manager, second floor, Governmental Center, 400 Boardman Avenue, Traverse City, Michigan, 49684, until **Tuesday, September 2, 2014 at 2:00 p.m.** for the following:

Restriping and Markings for a portion of E. Eighth Street
(See attached specifications)

If the specifications are obtained from the City's website www.traversecitymi.gov (Doing Business/City Bids and RFPs) it is the sole responsibility of the vendor to check the website for updates and addendums prior to the bid being submitted. You may also register on the website to receive notifications when requests for proposals or bids, updates and addendums are posted.

The City of Traverse City reserves the right to accept or reject any or all bids, waive irregularities, and to accept the bids either on an entire or individual basis that is in the best interest of the City.

The City accepts no responsibility for any expense incurred by the bidder in the preparation and presentation of a bid. Such expenses shall be borne exclusively by the bidder.

Only the successful bidder will be notified. If you so desire, you may call for results.

You must indicate on the outside of the sealed envelope that the bid is for the **“Restriping and Markings for a portion of E. Eighth Street.”**

You must submit **TWO (2) sealed bids** to the City Manager's Office prior to the above-indicated time and date or the bid will not be accepted. Telefaxed or E-Mail bids will not be accepted.

Please note that if you have previously submitted an informal quote, you will still need to submit a sealed bid prior to the date and time specified above in order to be considered. Please ensure that all requirements listed in the specifications are met.

If you have any questions, please contact Russ Soyring, Planning Director, at (231) 922-4778 before the bid is submitted.

PLEASE SUBMIT BID TO: Julie Dalton, Purchasing Agent
City Manager's Office, Governmental Center
Second Floor, 400 Boardman Avenue
Traverse City, MI 49684

INSTRUCTIONS TO BIDDERS

1. All bids must be submitted to Julie Dalton, Purchasing Agent, City of Traverse City, Governmental Center, Second Floor, 400 Boardman Avenue, Traverse City, Michigan, 49684, **no later than 2:00 p.m. on Tuesday, September 2, 2014.**
2. All bids must be submitted in a sealed envelope and clearly marked **“Restriping and Markings for a portion of E. Eighth Street.”** **TELEFAXED AND E-MAIL BIDS ARE NOT ACCEPTABLE.**
3. The bid form(s) **must** be completed and signed by an authorized representative of the Bidder.
4. The City reserves the right to accept or reject any or all proposals, waive irregularities, and to accept the bid which in its opinion is in the best interests of the City.
5. All bids must remain firm for a period of thirty (30) days following the City's receipt of the bid.
6. Payment shall be paid within 30 days of satisfactory completion of project. It is the Vendor's responsibility to submit an invoice to the City of Traverse City.

The City's standard practice is to run checks for the payment of bills received, on the 10th and 25th day of each month. In order to receive payment on the 10th or 25th of the month, the Vendor shall submit an invoice for all work completed up to the fifth or twentieth day of the month to the Planning Department, 400 Boardman Avenue, Traverse City, Michigan, 49684. This normally allows enough time for the City to review and approve the Vendor's invoice and process it for payment. Failure of the Vendor to properly submit invoices by the fifth or twentieth day of the month may be cause for the City to postpone payment of the invoice until the next scheduled run of checks.

The City may withhold any portion of payment as necessary from loss on account of:

- Defective work not remedied, or
- Failure of Vendor to make payments properly to subcontractors for material or labor, or
- Damage to another Vendor, or
- Damage to City Property, or
- “New Requirement” not fulfilled after completion of job (See specification #7).

7. **Proof of pre-qualification by the Michigan Department of Transportation is required. Proof of pre-qualification of the successful bidder by the Michigan Department of Transportation shall be submitted as requested by the City prior to award of the bid.**

SPECIFICATIONS FOR STREET MARKINGS

1. Bids. Bids shall include furnishing all materials, labor and equipment to complete the work at locations specified by the City of Traverse City. Bids shall include prices for all markings i.e., legends, symbols, lane delineations (bike lane symbols, sharrows, etc.) and removal of visible markings that are inconsistent with the restriping plan.
2. Standards. All work shall be done in accordance with current Michigan Department of

State Highways Specifications and the Michigan Manual of Uniform Traffic Control Devices unless otherwise indicated.

3. Completion. Work is to be completed before not before September 13, 2014 and no later than September 20, 2014, except as noted otherwise.
4. Experience. Bidders shall be experienced in this type of work and evidence of bidder's qualifications may be requested.
5. Insurance:

The Vendor agrees not to change and agrees to maintain the following insurance throughout the period of performance of the service order. The Vendor will upon execution of the service order provide a certificate of insurance to the City. The policy shall contain endorsements stating that at least a 10-day notice will be given to the City prior to termination or any change in the policy. Should any required insurance be cancelled, materially reduced or expired, all activities under the service order shall immediately cease until substitute insurance in compliance with all requirements hereof has been procured and evidence thereof presented to the City.

Commercial General Liability. The Vendor shall acquire and maintain commercial general liability insurance coverage in the amount of \$1,000,000 per occurrence with the City being named as additional insured for all claims arising out of the Vendor's work, including completed operations coverage.

Automobile Liability. The Vendor shall acquire and maintain during the life of the service order, automobile liability insurance, including applicable "no-fault" coverage, combined single limit bodily injury and property damage and shall include all owned vehicles, all non-owned vehicles and all hired vehicles.

Workers Compensation. The parties shall maintain suitable workers compensation insurance pursuant to Michigan law and the Vendor shall provide a certificate of insurance or copy of state approval for self insurance to the City upon execution of the service order.

6. Traffic Control. Traffic shall be maintained during the Vendor's operations in accordance with the current Michigan Manual of Uniform Traffic Control Devices.
7. Materials. The paint used for painted traffic markings shall be white or yellow conventional traffic marking paint. The Vendor shall, upon request, furnish the City with written certification from the manufacturer certifying that the paint used for this work is identical in composition with the paint furnished to and approved by the Michigan Department of State Highways and Transportation in their most recent traffic paint performance tests. Cold polyester paint is not acceptable. Hot paint is not acceptable. All traffic marking paint shall be reflectorized by the application of six pounds of glass beads per gallon of paint. Markings for cross hatchings, crosswalks, stop bar, bike lane and sharrow.

Additional Requirement:

Pursuant to the Clean Air Act Amendments of 1990, the Michigan Department of Environmental Quality is being required to compile volatile organic compound (VOC) emission inventories for all counties in Michigan. As part of the development of these

SPECIFICATIONS FOR STREET MARKINGS (continued)

inventories, the City of Traverse City must be provided with the manufacturer's technical data sheet (TDS), or the product material data sheet (MSDS) and the quantity of paint used when the job is completed.

8. Thickness. Traffic marking paints shall be applied at such a rate as to provide a finished wet paint film thickness of not less than 15 mills. All lines, markings and legends shall have two coats of paint.
9. Bid Acceptance and Rejection. The City of Traverse City reserves the right to accept or reject any or all bids, waive irregularities and to accept the bid which in the City's opinion is in the best interest of the City of Traverse City.
10. Additions and Deletions. The City reserves the right to change, schedule, add or delete up to 20% of the quantities of work items with no change in bid unit price. See "Exhibit A" for the extent of E. Eighth Street and Woodmere Avenue that will not be included in this bid.
11. Term/Service Order. The bid shall be for a period of one year, with an option of renewal for two additional years, in one-year increments, if the price remains the same and the service remains satisfactory as determined by the City. The City has the right to terminate the contract at any time the bidder does not perform the duties as specified. The successful bidder shall accept a service order from the City to perform this work. A sample service order is attached to these specifications.

QUANTITY "ESTIMATES"

Please refer to Exhibit A and Exhibit B for quantity estimates.

Prices shall include all materials, labor, equipment and traffic control devices necessary to install the markings specified in Exhibit A and Exhibit B and in meeting the specifications inherent with this document. The completion of this work is to be completed no later than September 20, 2014.

Bidder to return this bid sheet

**BID on “Restriping and Markings for a portion of E. Eighth Street”
Due 2:00 PM, Tuesday, September 2, 2014**

Having carefully examined the attached specifications and any other applicable information, the undersigned proposes to furnish all items necessary for and reasonably incidental to the proper completion of this bid. Bidder submits this bid and agrees to meet or exceed all requirements and specifications unless otherwise indicated in writing and attached hereto.

Bidder certifies that as of the date of this bid the Company or he/she is not in arrears to the City of Traverse City for debt or contract and is in no way a defaulter as provided in Section 152, Chapter XVI of the Charter of the City of Traverse City.

Bidder understands and agrees, if selected as the successful Bidder, to accept a purchase/service order and to provide proof of the required insurance.

The Bidder shall comply with all applicable federal, state, local and building codes, laws, rules and regulations and obtain any required permits for this work.

The Bidder certifies that it is in compliance with the City’s Nondiscrimination Policy as set forth in Administrative Order No. 47 and Chapter 605 of the City’s Codified Ordinances.

The Bidder certifies that none of the following circumstances have occurred with respect to the Bidder, an officer of the Bidder, or an owner of a 25% or more share in the Bidder's business, within 3 years prior to the bid:

- (a) conviction of a criminal offense incident to the application for or performance of a contract;
- (b) conviction of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense which currently, seriously and directly reflects on the Bidder's business integrity;
- (c) conviction under state or federal antitrust statutes;
- (d) attempting to influence a public employee to breach ethical conduct standards; or
- (e) conviction of a criminal offense or other violation of other state, local, or federal law, as determined by a court of competent jurisdiction or an administrative proceeding, which in the opinion of the City indicates that the bidder is unable to perform responsibility or which reflects a lack of integrity that could negatively impact or reflect upon the City of Traverse City, including but not limited to, any of the following offenses or violations of:
 - i. The Natural Resources and Environmental Protection Act.
 - ii. A persistent and knowing violation of the Michigan Consumer Protection Act.
 - iii. Willful or persistent violations of the Michigan Occupational Health and Safety Act.
 - iv. A violation of federal, local, or state civil rights, equal rights, or non-discrimination laws, rules, or regulations.
 - v. Repeated or flagrant violations of laws related to the payment of wages and fringe benefits.
- (f) the loss of a license or the right to do business or practice a profession, the loss or suspension of which indicates dishonesty, a lack of integrity, or a failure or refusal to perform in accordance with the ethical standards of the business or profession in question.

Bidder understands that the City reserves the right to accept any or all bids in whole or part and to waive irregularities in any bid in the best interest of the City. The bid will be evaluated and awarded on the basis of the best value to the City. The criteria used by the City may include, but will not be limited to: ability, qualifications, timeframe, experience, price, type and amount of equipment, accessories, options, insurance, permits, licenses, other pertinent factors and overall capability to meet the needs of the City. The City is sales tax exempt – Government.

Bidder agrees that the bid may not be withdrawn for a period of thirty (30) days from the actual date of the opening of the bid.

Having read and clearly understood the instructions to bidders, specifications for street markings, quantity estimated and being thoroughly familiar with the work to be performed, I/we hereby submit the following bid for:

Restriping and Markings for a portion of E. Eighth Street:

<i>Item</i>	<i>Description</i>	<i>Units</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>Total Quantity</i>	<i>Unit Price</i>	<i>Total Cost</i>
1	Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, White	Ft			145		145		
2	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Cross Hatching, White	Ft			145		145		
3	Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, Yellow	Ft	85	60	130	420	695		
4	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Cross Hatching, Yellow	Ft	85	60	130	420	695		
5	Pavt Mrkg, Waterborne, 12 inch, Crosswalk	Ft	198				198		
6	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Crosswalk	Ft	198				198		
7	Pavt Mrkg, Waterborne, 24 inch, Stop Bar	Ft	30	5	2		37		
8	Pavt Mrkg, Waterborne, 2nd Application, 24 inch, Stop Bar	Ft	30	5	2		37		
9	Pavt Mrkg, Waterborne, Direction Arrow Sym, Bike	Ea	2	6	4		12		
10	Pavt Mrkg, Waterborne, 2nd Application, Direction Arrow Sym, Bike	Ea	2	6	4		12		
11	Pavt Mrkg, Waterborne, Bike, Small Sym	Ea	2	6	4		12		
12	Pavt Mrkg, Waterborne, 2nd Application, Bike, Small Sym	Ea	2	6	4		12		
13	Pavt Mrkg, Waterborne, Only	Ea			2		2		
14	Pavt Mrkg, Waterborne, 2nd Application, Only	Ea			2		2		
15	Pavt Mrkg, Waterborne, Rt Turn Arrow Sym	Ea			1		1		
16	Pavt Mrkg, Waterborne, 2nd Application, Rt Turn Arrow Sym	Ea			1		1		
17	Pavt Mrkg, Waterborne, Thru Arrow Sym	Ea			1		1		
18	Pavt Mrkg, Waterborne, 2nd Application, Thru Arrow Sym	Ea			1		1		
19	Pavt Mrkg, Waterborne, Sharrow Symbol	Ea	5		1		6		
20	Pavt Mrkg, Waterborne, 2nd Application, Sharrow Symbol	Ea	5		1		6		
21	Pavt Mrkg, Waterborne, 4 inch, White	Ft		100			100		
22	Pavt Mrkg, Waterborne, 4 inch, Yellow	Ft	2190	3140	2000	720	8050		

23	Pavt Mrkg, Waterborne, 6 inch, White	Ft	1990	2790	1785		6565		
24	Pavt Mrkg, Waterborne, 12 inch, White	Ft			230		230		
25	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	Ft		100			100		
26	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	Ft	2190	3140	2000	720	8050		
27	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	Ft	1990	2790	1785		6565		
28	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, White	Ft			230		230		
29	Rem Spec Mrkg	Sft	100	100	176	220	596		
30	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	2010	390	480	720	3600		
31	Pavt Mrkg, Longit, Water Blasting, 6 inch or less Width, Rem	Ft		2200	1235		3435		
	GRAND TOTAL								\$

These prices include all materials, labor, equipment and traffic control devices necessary to paint the above according to the specifications. Bidder agrees that the bid may not be withdrawn for a period of thirty (30) days from the actual date of the opening of the bid.

Submitted by:

Signature

Company name

Name and title (print)

Company address

Phone

City, State, Zip

PERMANENT PAVEMENT MARKINGS QUANTITIES - THIS SHEET

85	Ft	Pavt Mrkg. Waterborne, 12 inch, Cross Hatching, Yellow
85	Ft	Pavt Mrkg. Waterborne, 2nd Application, 12 inch, Cross Hatching, Yellow
198	Ft	Pavt Mrkg. Waterborne, 12 inch, Crosswalk
198	Ft	Pavt Mrkg. Waterborne, 2nd Application, 12 inch, Crosswalk
30	Ft	Pavt Mrkg. Waterborne, 24 inch, Stop Bar
30	Ft	Pavt Mrkg. Waterborne, 2nd Application, 24 inch, Stop Bar
2	Ea	Pavt Mrkg. Waterborne, Direction Arrow Sym, Bike
2	Ea	Pavt Mrkg. Waterborne, 2nd Application, Direction Arrow Sym, Bike
2	Ea	Pavt Mrkg. Waterborne, Bike, Small Sym
2	Ea	Pavt Mrkg. Waterborne, 2nd Application, Bike, Small Sym
5	Ea	Pavt Mrkg. Waterborne, Sharrow Symbol
5	Ea	Pavt Mrkg. Waterborne, 2nd Application, Sharrow Symbol
2190	Ft	Pavt Mrkg. Waterborne, 4 inch, Yellow
1990	Ft	Pavt Mrkg. Waterborne, 6 inch, White
2190	Ft	Pavt Mrkg. Waterborne, 2nd Application, 4 inch, Yellow
1990	Ft	Pavt Mrkg. Waterborne, 2nd Application, 6 inch, White
100	Sft	Rem Spec Mrkg
2010	Ft	Pavt Mrkg. Longit, 6 inch or Less Width, Rem

CASS ST

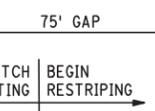
CASS ST



EIGHTH ST

MATCH LINE THIS SHEET

EIGHTH ST



PAVT MRKG. 4 INCH, YELLOW (SOLID LANE LINE W/ BROKEN LANE LINE, 12.5' MARK, 37.5' GAP)

PAVT MRKG. SHARROW SYMBOL
PAVT MRKG. 4 INCH, YELLOW (DOUBLE SOLID LANE LINE)

PAVT MRKG. SHARROW SYMBOL

FINAL LONGITUDINAL MARKINGS SHALL BE WATERBORNE.
FINAL SPECIAL MARKINGS SHALL BE WATERBORNE.

LAKE AVE

LAKE AVE



EIGHTH ST

MATCH LINE THIS SHEET

MATCH LINE NEXT SHEET

EIGHTH ST

DO NOT GAP OUT LONGITUDINAL MARKINGS UNTIL CROSSWALK IS PLACED (TYP)

PAVT MRKG. 24 INCH STOP BAR
PAVT MRKG. 12 INCH CROSSWALK

PAVT MRKG. 12 INCH CROSSWALK (FOR INFORMATION ONLY)

PAVT MRKG. 12 INCH YELLOW CROSSHATCHING (10' SPACING @ 45°)

PAVT MRKG. SHARROW SYMBOL
PAVT MRKG. 12 INCH CROSSWALK

PAVT MRKG. SMALL BIKE SYMBOL
PAVT MRKG. DIRECTIONAL ARROW SYMBOL (BIKE)

PAVT MRKG. DIRECTIONAL ARROW SYMBOL (BIKE)
PAVT MRKG. SMALL BIKE SYMBOL

PAVT MRKG. 4 INCH, YELLOW (SOLID LANE LINE W/ BROKEN LANE LINE, 12.5' MARK, 37.5' GAP)

PAVT MRKG. 6 INCH, WHITE (SOLID LANE LINE)

PAVT MRKG. 4 INCH, YELLOW (DOUBLE SOLID LANE LINE)

(TS) - TRAFFIC SIGNAL

FINAL ROW PLAN REVISIONS		(SUBMITTAL DATE:)	
NO.	DATE	AUTH	DESCRIPTION

URS
Surface Transportation
Grand Rapids, Southfield, Traverse City



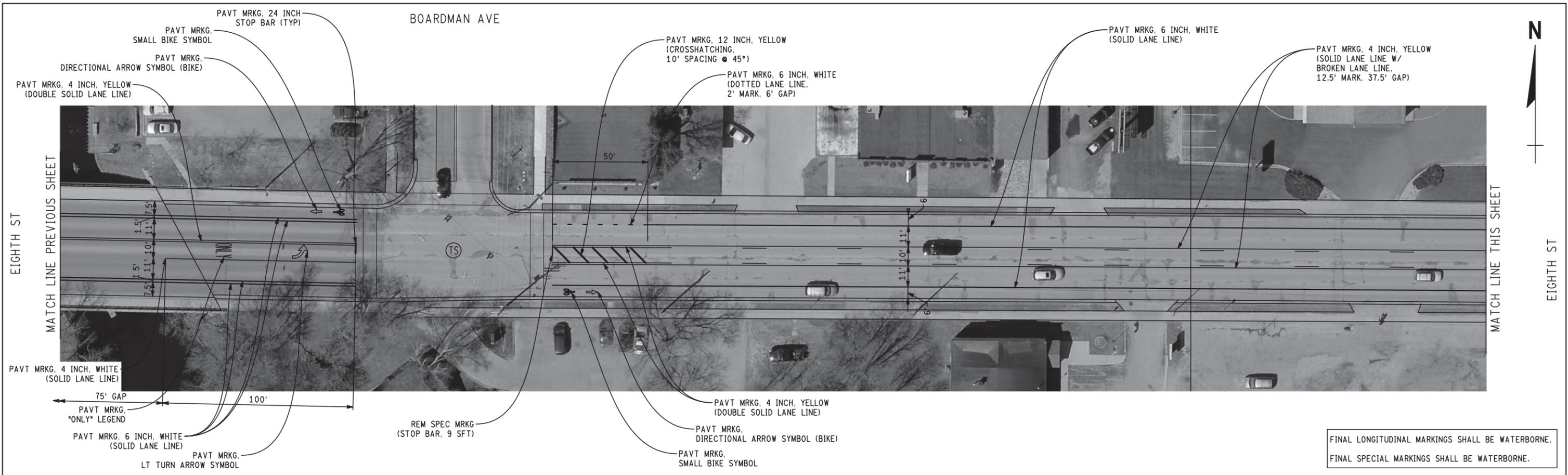
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DATE: 08/20/14
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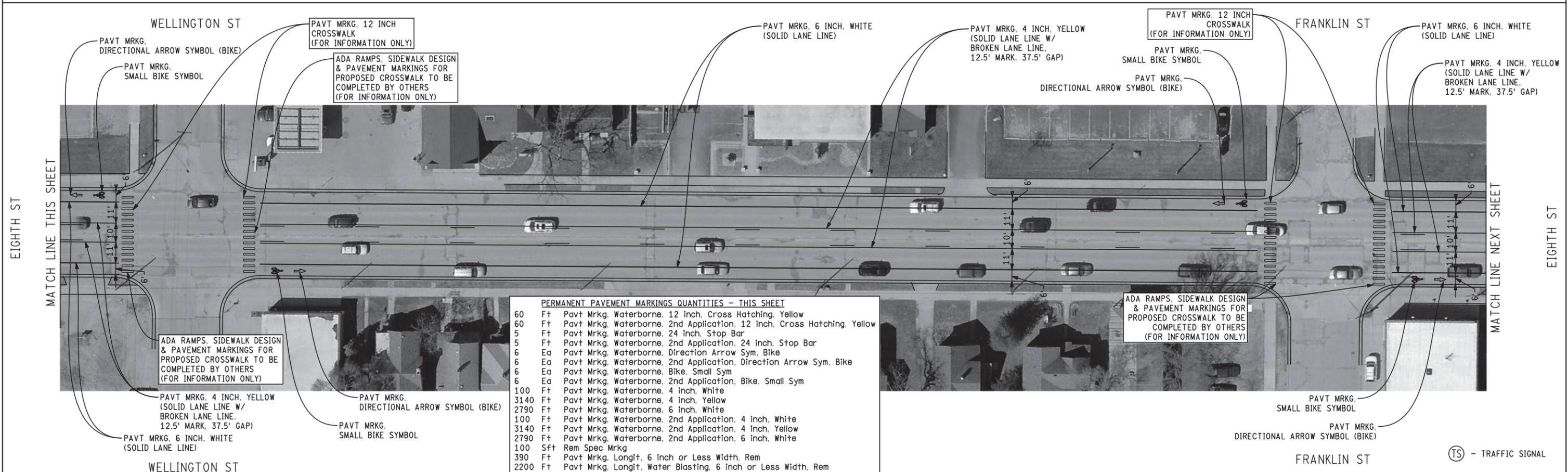
CS:
JN:

PERMANENT PAVEMENT MARKING SHEET
EIGHTH STREET

DRAWING	SHEET
8TH PVMK 1	1



FINAL LONGITUDINAL MARKINGS SHALL BE WATERBORNE.
FINAL SPECIAL MARKINGS SHALL BE WATERBORNE.



PERMANENT PAVEMENT MARKINGS QUANTITIES - THIS SHEET

60	Ft	Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, Yellow
60	Ft	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Cross Hatching, Yellow
5	Ft	Pavt Mrkg, Waterborne, 24 inch, Stop Bar
5	Ft	Pavt Mrkg, Waterborne, 2nd Application, 24 inch, Stop Bar
6	Ea	Pavt Mrkg, Waterborne, Direction Arrow Sym, Bike
6	Ea	Pavt Mrkg, Waterborne, 2nd Application, Direction Arrow Sym, Bike
6	Ea	Pavt Mrkg, Waterborne, Bike, Small Sym
6	Ea	Pavt Mrkg, Waterborne, 2nd Application, Bike, Small Sym
100	Ft	Pavt Mrkg, Waterborne, 4 inch, White
3140	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow
2790	Ft	Pavt Mrkg, Waterborne, 6 inch, White
100	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White
3140	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow
2790	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White
100	Sft	Rem Spec Mrkg
390	Ft	Pavt Mrkg, Longit, 6 inch or Less Width, Rem
2200	Ft	Pavt Mrkg, Longit, Water Blasting, 6 inch or Less Width, Rem

EIGHTH ST

MATCH LINE PREVIOUS SHEET



MATCH LINE THIS SHEET

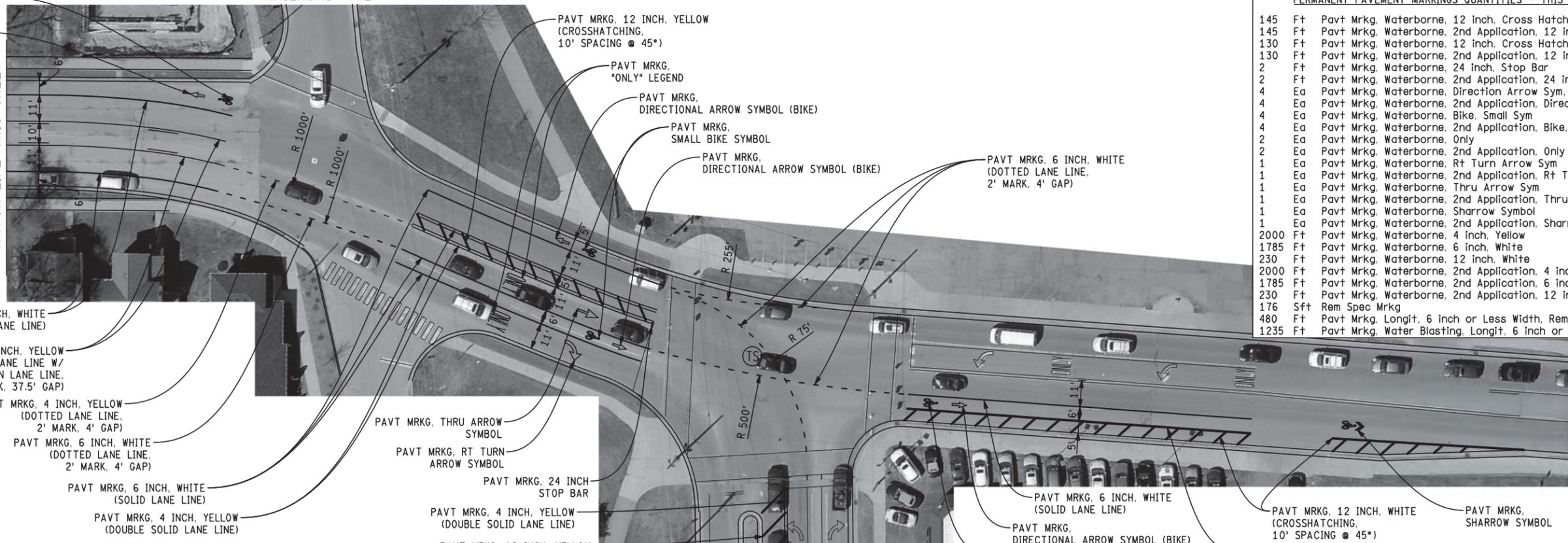
PAVT MRKG. 6 INCH. WHITE (SOLID LANE LINE)

PAVT MRKG. 4 INCH. YELLOW (SOLID LANE LINE W/ BROKEN LANE LINE, 12.5' MARK, 37.5' GAP)

FINAL LONGITUDINAL MARKINGS SHALL BE WATERBORNE.
FINAL SPECIAL MARKINGS SHALL BE WATERBORNE.

EIGHTH ST

MATCH LINE THIS SHEET



MATCH LINE NEXT SHEET

EIGHTH ST

PERMANENT PAVEMENT MARKINGS QUANTITIES - THIS SHEET			
145	Ft	Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, White	
145	Ft	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Cross Hatching, White	
130	Ft	Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, Yellow	
130	Ft	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Cross Hatching, Yellow	
2	Ft	Pavt Mrkg, Waterborne, 24 inch, Stop Bar	
2	Ft	Pavt Mrkg, Waterborne, 2nd Application, 24 inch, Stop Bar	
4	Ea	Pavt Mrkg, Waterborne, Direction Arrow Sym, Bike	
4	Ea	Pavt Mrkg, Waterborne, 2nd Application, Direction Arrow Sym, Bike	
4	Ea	Pavt Mrkg, Waterborne, Bike, Small Sym	
4	Ea	Pavt Mrkg, Waterborne, 2nd Application, Bike, Small Sym	
2	Ea	Pavt Mrkg, Waterborne, Only	
2	Ea	Pavt Mrkg, Waterborne, 2nd Application, Only	
1	Ea	Pavt Mrkg, Waterborne, Rt Turn Arrow Sym	
1	Ea	Pavt Mrkg, Waterborne, 2nd Application, Rt Turn Arrow Sym	
1	Ea	Pavt Mrkg, Waterborne, Thru Arrow Sym	
1	Ea	Pavt Mrkg, Waterborne, 2nd Application, Thru Arrow Sym	
1	Ea	Pavt Mrkg, Waterborne, Sharrow Symbol	
1	Ea	Pavt Mrkg, Waterborne, 2nd Application, Sharrow Symbol	
2000	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow	
1785	Ft	Pavt Mrkg, Waterborne, 6 inch, White	
230	Ft	Pavt Mrkg, Waterborne, 12 inch, White	
2000	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	
1785	Ft	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	
230	Ft	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, White	
176	Sft	Rem Spec Mrkg	
480	Ft	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	
1235	Ft	Pavt Mrkg, Water Blasting, Longit, 6 inch or Less Width, Rem	

FINAL ROW PLAN REVISIONS (SUBMITTAL DATE:)							
NO.	DATE	AUTH	DESCRIPTION	NO.	DATE	AUTH	DESCRIPTION

URS
Surface Transportation
Grand Rapids - Southfield -
Traverse City



DATE: 08/20/14
DESIGN UNIT:
TSC:
FILE: PVMK_03.DGN

CS:
JN:

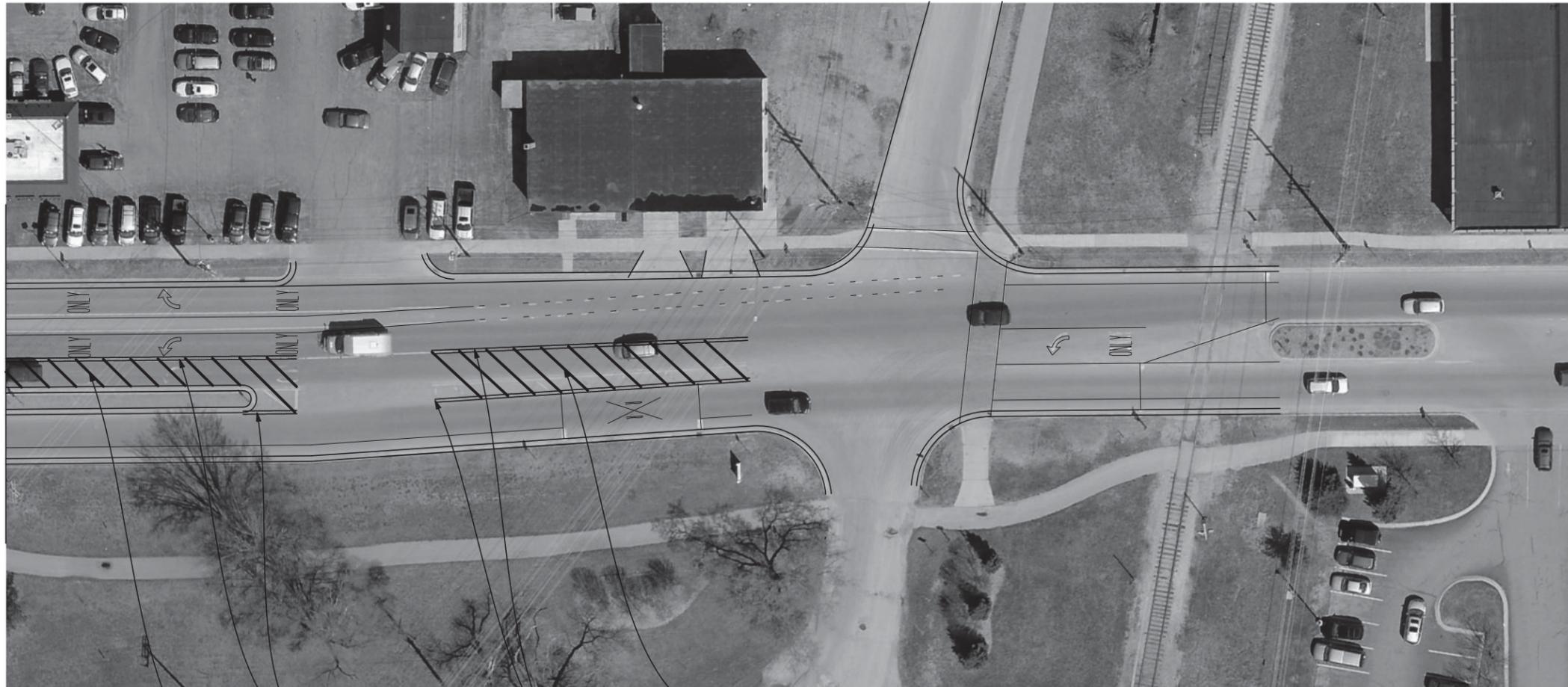
PERMANENT PAVEMENT MARKING SHEET
EIGHTH STREET

DRAWING SHEET
8TH PVMK 3
3

(TS) - TRAFFIC SIGNAL

BOYD AVE

FINAL LONGITUDINAL MARKINGS SHALL BE WATERBORNE.
FINAL SPECIAL MARKINGS SHALL BE WATERBORNE.



WOODMERE AVE

MATCH LINE PREVIOUS SHEET

WOODMERE AVE

- PAVT MRKG, 4 INCH, YELLOW (DOUBLE SOLID LANE LINE)
- PAVT MRKG, 12 INCH, YELLOW (CROSSHATCHING, 10' SPACING @ 45°)
- PAVT MRKG, 4 INCH, YELLOW (DOUBLE SOLID LANE LINE)
- PAVT MRKG, 12 INCH, YELLOW (CROSSHATCHING, 10' SPACING @ 45°)

PERMANENT PAVEMENT MARKINGS QUANTITIES - THIS SHEET			
420	Ft	Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, Yellow	
420	Ft	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Cross Hatching, Yellow	
720	Ft	Pavt Mrkg, Waterborne, 4 inch, Yellow	
720	Ft	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	
220	Sft	Rem Spec Mrkg	
720	Ft	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	

BOYD AVE

FINAL ROW PLAN REVISIONS		(SUBMITTAL DATE:)	
NO.	DATE	AUTH	DESCRIPTION



FILE: PVMK_04.DGN

DATE: 08/20/14
DESIGN UNIT:
TSC:

CS:
JN:

PERMANENT PAVEMENT MARKING SHEET		DRAWING	SHEET
WOODMERE AVENUE		8TH PVMK 4	SECT 1 4

Permanent Pavement Marking Quantities - 8th Street Restriping Project

Exhibit B

<i>Item Code</i>	<i>Description</i>	<i>Units</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>Total Quantities</i>
8117001	Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, White	Ft			145		145
8117001	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Cross Hatching, White	Ft			145		145
8117001	Pavt Mrkg, Waterborne, 12 inch, Cross Hatching, Yellow	Ft	85	60	130	420	695
8117001	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Cross Hatching, Yellow	Ft	85	60	130	420	695
8117001	Pavt Mrkg, Waterborne, 12 inch, Crosswalk	Ft	198				198
8117001	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, Crosswalk	Ft	198				198
8117001	Pavt Mrkg, Waterborne, 24 inch, Stop Bar	Ft	30	5	2		37
8117001	Pavt Mrkg, Waterborne, 2nd Application, 24 inch, Stop Bar	Ft	30	5	2		37
8117050	Pavt Mrkg, Waterborne, Direction Arrow Sym, Bike	Ea	2	6	4		12
8117050	Pavt Mrkg, Waterborne, 2nd Application, Direction Arrow Sym, Bike	Ea	2	6	4		12
8117050	Pavt Mrkg, Waterborne, Bike, Small Sym	Ea	2	6	4		12
8117050	Pavt Mrkg, Waterborne, 2nd Application, Bike, Small Sym	Ea	2	6	4		12
8117050	Pavt Mrkg, Waterborne, Only	Ea			2		2
8117050	Pavt Mrkg, Waterborne, 2nd Application, Only	Ea			2		2
8117050	Pavt Mrkg, Waterborne, Rt Turn Arrow Sym	Ea			1		1
8117050	Pavt Mrkg, Waterborne, 2nd Application, Rt Turn Arrow Sym	Ea			1		1
8117050	Pavt Mrkg, Waterborne, Thru Arrow Sym	Ea			1		1
8117050	Pavt Mrkg, Waterborne, 2nd Application, Thru Arrow Sym	Ea			1		1
8117050	Pavt Mrkg, Waterborne, Sharrow Symbol	Ea	5		1		6
8117050	Pavt Mrkg, Waterborne, 2nd Application, Sharrow Symbol	Ea	5		1		6
8110231	Pavt Mrkg, Waterborne, 4 inch, White	Ft		100			100
8110232	Pavt Mrkg, Waterborne, 4 inch, Yellow	Ft	2190	3140	2000	720	8050
8110233	Pavt Mrkg, Waterborne, 6 inch, White	Ft	1990	2790	1785		6565
8110237	Pavt Mrkg, Waterborne, 12 inch, White	Ft			230		230
8110251	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, White	Ft		100			100
8110252	Pavt Mrkg, Waterborne, 2nd Application, 4 inch, Yellow	Ft	2190	3140	2000	720	8050
8110253	Pavt Mrkg, Waterborne, 2nd Application, 6 inch, White	Ft	1990	2790	1785		6565
8110257	Pavt Mrkg, Waterborne, 2nd Application, 12 inch, White	Ft			230		230
8110343	Rem Spec Mrkg	Sft	100	100	176	220	596
8120210	Pavt Mrkg, Longit, 6 inch or Less Width, Rem	Ft	2010	390	480	720	3600
8120212	Pavt Mrkg, Longit, Water Blasting, 6 inch or less Width, Rem	Ft		2200	1235		3435