

City of Mt. Pleasant, Michigan

# **CONTRACT DOCUMENTS**

For Construction  
of

2015 Bellows Street Recycled Rubber Modified Asphalt Overlay Project



**JIM HOLTON**  
Mayor

**NANCY RIDLEY**  
City Manager

Prepared By:  
Division of Public Works

**JOHN ZANG**  
DPW Director

June 2015

City of Mt. Pleasant, Michigan

**T A B L E   O F   C O N T E N T S**

2015 Bellows Street Recycled Rubber Modified Asphalt Overlay Project

**Bidding Information**

Notice to Bidders  
Instructions to Bidders

**Contract Documents**

Proposal

**Technical Specifications**

Supplemental Specifications  
Special Provisions  
Minimum Insurance Requirements for Contractors  
Location Map  
Truck Route Map  
Bellows Street Pavement Marking Plan



# THE CITY OF MT. PLEASANT, MICHIGAN

**CITY HALL**  
320 W. Broadway • 48858-2447  
(989) 779-5300  
(989) 773-4691 fax

**PUBLIC SAFETY**  
804 E. High • 48858-3595  
(989) 779-5100  
(989) 773-4020 fax

**PUBLIC WORKS**  
1303 N. Franklin • 48858-4682  
(989) 779-5400  
(989) 772-6250 fax

## NOTICE TO BIDDERS

### 2015 Bellows Street Recycled Rubber Modified Asphalt Overlay Project

The City of Mt. Pleasant, Michigan, is requesting sealed bids at the Office of the City Clerk, City Hall, 320 W. Broadway Street, Mt. Pleasant, Michigan 48858, until 1:30 p.m. (local time), on June 30, 2015, at which time and place the bids will be publicly opened and read. All bids shall be submitted in a sealed envelope, plainly marked "2015 Bellows Street Recycled Rubber Modified Asphalt Paving Project"

Proposals are solicited on a unit price basis, for the following work (approx. quantities):

HMA, Ultra-Thin, Medium Volume, Modified (Recycled Rubber Modified)	575	TON
Sidewalk Ramp Removal and Replacement	150	SFT
Pavement Marking, Waterborne, Yellow	3,868	LFT
Pavement Marking, Waterborne, White	9,676	LFT
Pavement Marking, Waterborne, Bike Lane Symbols	19	EA

All bid proposals must be accompanied by a bid bond, bank cashier's check, bank draft, or certified check for not less than five percent (5%) of the bid price, made payable to the City of Mt. Pleasant.

To view and download complete Plans and Specifications at no charge, visit the City of Mt. Pleasant website at [www.mt-pleasant.org](http://www.mt-pleasant.org) and navigate to the [bids and quotes](#) page.

A non-refundable \$50.00 fee is required for plans and specifications picked up at the Public Works Building, 1303 N. Franklin Street, Mt. Pleasant, Michigan 48858, (989) 779-5401, Monday through Friday, 8:00 a.m. to 4:30 p.m. A non-refundable \$60.00 fee is required for plans and specifications that must be mailed.

The City of Mt. Pleasant reserves the right to accept or reject any or all bids, to waive any irregularities in the bids, and to select the bid considered most advantageous to the City.

Stacie Tewari  
City Engineer  
(989) 779-5404

Jeremy Howard  
City Clerk

City of Mt. Pleasant, Michigan  
**INSTRUCTIONS TO BIDDERS**

1. **Proposals**

Proposals must be made upon the forms provided therefore, with the Bid amount both written and shown in figures, and all other data required submitted.

The Proposal, bound together with all Proposal Documents, must be enclosed in a sealed envelope marked as specified in the Notice to Bidders for such Bid and clearly indicating the name and address of the Bidder and must be received by the City Clerk, City Hall, 320 West Broadway Street, Mt. Pleasant, Michigan 48858, no later than the time and date specified in the Notice to Bidders. At such specified time, Proposals shall be publicly opened and read aloud.

2. **Basis of Proposals**

Proposals are solicited on the basis of unit price(s) and/or lump sum(s), as specified on the Proposal form.

The City of Mt. Pleasant (also referred to as "Owner"), reserves the right to accept any Bid, to reject any or all Bids, to waive any irregularities in the Bids, and to select the Bid considered most advantageous to the city.

3. **Comparison of Bids**

In comparing Bids, consideration shall be given to the time proposed for completion of the Contract, qualifications of Bidder, price differentials, alternate Proposals for the alternate items listed in the Proposal (if applicable), and any other pertinent factors. **The City of Mt. Pleasant grants a preference to businesses located within the Mt. Pleasant City Limits. The preference given is a differential above the low bid if the low bid is not from a City of Mt. Pleasant bidder. The differential allowed is 3% of the total for bids between \$5,000 and \$9,999 and 2% of the total for bids over \$10,000. The maximum credit allowed is \$1500.00.** The Owner reserves the right to make an award to the Bidder whose Proposal is deemed to be in the best interest of the Owner.

4. **Time**

Time is of the essence in the performance of the Contract, and each Bidder, by submitting a Proposal, certifies his/her acceptance of the time allowed by the Contract for the completion of the work specified.

5. **Indemnification**

The Contractor shall save and hold harmless the city and its employees from and against all claims, damages, losses, or expenses, including attorney's fees, arising out of or resulting from the performance of the work; provided that any such claim, damage, loss or expense is caused in whole or in part by any negligent or willful act of omission of the contractor, subcontractor, employee, or anyone under their direction. The Contractor shall at his/her own expense, defend any and all such actions and shall pay all attorney's fees, costs, and expenses pertaining thereto.

6. **Bid Deposits**

Each Proposal shall be accompanied by a certified check, bank cashier's check, bank draft, or a Bid Bond by a recognized Surety Company similar to a U. S. Government Standard Form Bid Bond, in the amount of five percent (5%) of the total amount of the Bid, made payable to the City of Mt. Pleasant, subject to forfeiture to the Owner in the event of failure on the part of the successful Bidder to enter into the attached form of agreement to do the work specified by said Proposal at the price and within the time stated therein. The Bid Deposit of all Bidders, except the three (3) lowest acceptable Bidders, shall be returned within two (2) weeks after opening of bids. The bid deposits of the three (3) lowest acceptable bidders shall be returned within 48 hours after the executed Contract(s) have been finally approved by the Owner.

7. **Liquidated Damages**

A liquidated damage clause, as given in the Contract form, provides that the Contractor shall pay the Owner as liquidated damages, and not as a penalty, the amount as indicated in Section 108.10 of the 2012 MDOT Standard Specifications for Construction for each and every calendar day that the Contractor may be in default of substantial completion of the work required under said Contract.

8. **Insurance and Bonds**

The successful Bidder will be required to execute (2) Bonds, in the form attached hereto, with Surety acceptable to the Owner and insurance, as follows:

- a. Bond in the amount of 100% of the Estimated Contract Price running to the City of Mt. Pleasant, Michigan, to insure the completion of the entire work, according to the statutes of the State of Michigan in effect at that time.
- b. Bond in the amount of 100% of the Estimated Contract Price running to the People of the State of Michigan for the protection of Subcontractors and Labor and Material Men, according to the statutes of the State of Michigan in effect at that time.
- c. Insurance in the amounts required by City Ordinance as specified in the Section 1 - General Construction Specifications, attached hereto.

The successful bidder shall be required to furnish for each set of executed Contract Documents, and conformed copies thereof, an original conformed Performance Bond, Labor and Materials Bond, and Insurance Certificates.

9. **Permits and Local Codes**

The Owner shall procure the required permits for municipal sanitary sewer construction, municipal water system construction, and soil erosion control.

The Contractor shall obtain, at his/her expense, all other required local construction permits and shall comply with local building code and inspection requirements.

10. **Qualifications of Bidders**

It is the intent of the Owner to award the Contract to a Bidder fully capable, both financially and with regard to experience, to perform and complete all work in a satisfactory and timely manner. Evidence of such competency must be furnished on the forms included in the proposal, listing projects of similar difficulty, scope of work, and size, which the Bidder has satisfactorily undertaken and completed.

It is the intention of the City to award the contract to a Contractor whose ability and financial resources are fully equal to the task of performing the work in a satisfactory manner. With this in view, the Proposal calls for at least five (5) references, using specific names of persons to contact concerning the Contractor's ability to do this particular class of work. References from municipalities are preferred. The mere ability to furnish a Performance Bond shall not be accepted as sufficient evidence of responsibility on the part of the Bidder. The Bidder may also be required to furnish evidence of his current financial status.

11. **Interpretation of Documents**

If any Bidder is in doubt as to the true meaning of any part of the Plans, Specifications or any Contract Document, he/she may submit to the Owner a written request for an interpretation thereof. Any interpretation made in response to such a query shall be made only by Addendum, duly issued, and a copy of such Addendum shall be mailed or duly delivered to each prospective Bidder. The Owner shall not be responsible for any other explanation or interpretation of the Contract Documents. Alternative proposals that are suggested by bidders will be given consideration, if presented before the bid opening. If accepted, an addendum will be issued and sent out to all potential bidders, so that they may bid on the alternatives that have been identified.

12. **Execution of Bid Proposal**

A Bid Proposal, which is not signed by the individual making it, should have attached thereto a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the person for whom it is signed.

A Bid Proposal, which is signed by a partnership, shall be signed by all of the partners or by an Attorney-in-Fact. If signed by an Attorney-in-Fact, there should be attached to the Bid a Power of Attorney evidencing authority to sign the Bid Proposal in the name of the partnership and such Power of Attorney shall be signed by all partners of the partnership.

A Bid Proposal, which is signed for a corporation, should have the correct corporate name thereof and the signature of the President, or other authorized officer(s) of the corporation, manually written below the corporate name and on the line indicating "By:\_\_\_\_\_." If such a Bid Proposal is manually signed by an officer other than the President of the corporation, a certified copy of a Resolution of the Board of Directors evidencing the authority of such officer(s) to sign the Bid Proposal should be attached thereto. Such a Bid Proposal should also bear the attested signature of the Secretary of the corporation and an impression of the corporate seal.

13. **Execution of Contract**

The successful Bidder to whom an award is made shall be required to enter into a written agreement, in the form attached hereto, within ten (10) days after receipt of a Notice of Award and copies of the documents to be executed. In the event the successful Bidder fails to comply with this provision, he/she may be considered by the Owner to have abandoned all his/her rights and interests in the award and his/her certified check or amount of the Bid Bond may be declared to be forfeited to the Owner, and the Contract may be awarded to another.

14. **Bidder Responsibility For Conditions of Work and Site**

The Bidder, or his/her representative, shall make personal investigation of the site of work and of existing structures and shall determine to his/her own satisfaction the conditions to be encountered, the nature of the ground, the difficulties involved in making connections to existing structures and pipes, and any and all other factors affecting the work proposed under the Contract.

The Bidder to whom the Contract is awarded shall not be entitled to any additional compensation by reason of conditions being different from those anticipated or by reason of his/her failure to fully acquaint himself/herself with the conditions at the site affecting the work of the Contract.

15. **Changes in Work**

If any change is required to be made in the work of the Contract, a payment adjustment therefore shall be determined as specified in Section 103 of the 2012 MDOT Standard Specifications for Construction.

---

City of Mt. Pleasant, Michigan  
2015 Bellows Street Recycled Rubber Modified Asphalt Overlay Project

**BID PROPOSAL**

TO: City Hall/City Clerk  
320 W. Broadway Street  
Mt. Pleasant, MI 48858

BID DATE: June 30, 2015  
TIME: 1:30 p.m.

The undersigned, as Bidder, hereby declares that his bid is made in good faith without fraud or collusion with any person or persons bidding on the same Contract; that he has carefully read and examined the Contract Documents, including the Notice to Bidders, Instructions, Bond Forms, Technical and Detailed Specifications, and Contract Drawings, for the designated work and understands all of the same; that he, or his representative, has made such a personal investigation at the site as is necessary to determine the character and difficulties attending the execution of the proposed work; and he proposes and agrees that if this Proposal is accepted, he will contract with the Owner in the form of the Contract hereto annexed, to provide necessary machinery, tools, apparatus and other means of construction, including utility and transportation services, necessary to do all the work and furnish all the materials and equipment specified or referred to in the Contract Documents, including Addenda No. \_\_, \_\_, and \_\_, in the manner and time therein prescribed, and according to the requirements of the Owner as therein set forth to furnish Contractor Bonds and Insurance required of the Contractor by the Contract Documents, and that he will take in full payment therefore the unit prices set forth in the following Proposal.

The Bidder understands that the Owner reserves the right to reject any or all bids and to waive any irregularities in the bidding.

The Bidder agrees that his bid shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for receiving the bids.

Upon receipt of a written Notice of Award of the Bid, the Bidder shall execute the formal Contract Agreement attached hereto within ten (10) days and shall deliver to the Owner a Surety Bond or Bonds required. In the event the Contract and Bond are not executed within the time above set forth, the Bid Deposit attached in the sum of five percent (5%) of the Bid Proposal shall become the property of the Owner as liquidated damages for the delay and additional expense to the Owner caused thereby.

The Bidder hereby agrees to commence work under this Contract on or before the date to be specified in the written Notice to Proceed executed by the Owner and to fully complete the project as stipulated in the Special Conditions of these Specifications. The Bidder further agrees to pay as liquidated damages the sum indicated in the Special Conditions for each consecutive calendar day thereafter, until substantial completion, that is when all work items in the proposal are complete and notification of substantial completion of work items and final quantities is given to the Director of Public Works by the contractor.

The below unit prices shall include all labor, materials, overhead, profit, insurance, etc., to cover the finished work of the several kinds specified, and the Bidder agrees to perform all of the work described in the Specifications and/or shown on the Plans for the following unit prices:

**BASE BID**

DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL COST
Maintaining Traffic	1	LS		
Curb and Gutter, Rem	30	Lft		
Curb and Gutter, Conc, Det F4	30	Lft		
Sidewalk, Rem	17	Syd		
Sidewalk Ramp, Conc, 6 inch	150	Sft		
Detectable Warning Surface, Modified	20	Ft		
Subbase, CIP	2	Cyd		
Dr Structure Cover, Adj, Case 1	8	Ea		
HMA, Ultra-Thin, Medium Volume, Modified	575	Ton		
Restoration, Modified	30	Lft		
Pavt Mrkg, Waterborne, 4" Yellow	3,868	Lft		
Pavt Mrkg, Waterborne, 4" White	9,676	Lft		
Pavt Mrkg, Waterborne, 24 inch Stop Bar	115	Lft		
Pavt Mrkg, Waterborne, Left Turn Arrow	1	Ea		
Pavt Mrkg, Waterborne, Right Turn and Thru Arrow	1	Ea		
Pavt Mrkg, Waterborne, Bike Lane Symbol	19	Ea		
Pavt Mrkg, Waterborne, 6" Crosswalk	621	Lft		

**TOTAL \$**

===== (figures)

\_\_\_\_\_ (written) \_\_\_\_\_ and \_\_\_/100 Dollars

RESPECTFULLY SUBMITTED:

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ ST \_\_\_\_\_ Zip Code \_\_\_\_\_

Area Code/Telephone Number \_\_\_\_\_ Date \_\_\_\_\_

Fax \_\_\_\_\_

Email \_\_\_\_\_

Authorized Signature \_\_\_\_\_

Print of Type Name and Title \_\_\_\_\_

## EXPERIENCE QUESTIONNAIRE

To be furnished by Bidder

**The signatory of this proposal guarantees the truth and accuracy of all statements and of all answers hereinafter made.**

1. How many years have you been in business as a contractor under your present name?

\_\_\_\_\_

2. How many years have you been a principal officer of a firm under a different name?

\_\_\_\_\_

Name of Firm \_\_\_\_\_

3. What projects of a similar nature has your organization contracted for within the past five years? (NOTE: Fill out each blank completely.)

<b>Name of Owner &amp; Location</b>	<b>Name/Address/Phone # of Person in Charge as Reference</b>	<b>Type of Work</b>	<b>Value of Work</b>	<b>Date Completed</b>
1.				
2.				
3.				
4.				
5.				
6.				

**CITY OF MT. PLEASANT**  
**SUPPLEMENTAL SPECIFICATIONS**  
**2015 Bellows Street Recycled Rubber Modified Asphalt Overlay Project**

The work under this contract shall be completed following the 2012 MDOT Standard Specifications for Construction along with the City of Mt. Pleasant 2012 Standard Special Provisions, except as modified herein. This is not a state sponsored project; therefore, the payment of prevailing wages is not a requirement of this contract.

**Scope of Work**

This project includes the resurfacing of Bellows Street. The bituminous material to be used shall be an HMA Ultra-Thin, Modified (Recycled Rubber Modified). Bellows street shall receive a one inch (1") thin overlay with a HMA Ultra-Thin, Recycled Rubber Modified material as outlined in the attached special provision.

**Project Limits:**

Bellows Street - Crapo Street to Isabella Road (Thin Overlay)

Bellows Street - Mission Street to Isabella Road (Pavement Markings)

Bellows Street will be marked with waterborne paint. The street shall be striped as shown in the attached pavement marking plan. The proposed striping layout shall be approved by the City Inspector prior to placement. Bike lane signs and sign removals will be by the city.

Street overlays will be done between existing curb and gutter structures. Overlay of the gutter pan will not be permitted unless directed by the city inspector.

**Contractor Schedule**

The contractor shall provide to the Inspector a schedule indicating the when the work will be done on Bellows Street. This schedule must be given to the Inspector at least two weeks prior to beginning the project so that area residents can be notified.

**Time Constraint**

Once the project work begins, the project shall be completed within two weeks. The Contractor shall complete this work by October 30, 2015.

**Permits** - No permits are required for this project

## **Ultra-Thin Overlay Thickness**

The ultra-thin overlay shall be placed at a yield rate of 110 Pounds per Square Yard (#/SYD). The overlay thickness shall be varied at manholes and other structures including adjacent roadways to provide smooth transitions in the road surface.

## **Street and Drive Approaches**

The contractor shall place bituminous mixture at a yield rate of 110 Pounds per Square Yard (#/SYD) in the street and drive approaches, as necessary, to maintain positive drainage if directed by the City Inspector.

## **Residential and Commercial Access**

Access to driveways for local residents and businesses shall be maintained and available for use. All driveways shall be opened by the contractor when the contractor is not working, including all evenings, nights, Sundays, and holidays, except as approved in writing by the inspector and with written notification to the residents/owners by the contractor.

## **Road Closure**

Streets and alleys may be closed to through traffic, open to adjacent residential and commercial properties as stipulated above. Contractor is required to maintain traffic control.

## **Detours**

No detours are anticipated for this project. Should the contractor's operations require a detour, all costs of setting up the detour including signage and all notifications (list available from DPW) shall be covered by the contractor. The Director of Public Works/City Engineer must approve all detours. Detour requests shall be submitted in writing with back-up information as to route, signage, time, dates and notifications to be made by the contractor.

## **Residential Refuse and Recyclable Collection**

The City contractor for trash (refuse) collection is Sunset Waste of Pierson, Michigan and the contractor for recycling collection is Mid Michigan Industries (MMI) of Mt. Pleasant. Collection of both refuse and recycle begins at 7:30 a.m., Monday through Thursday. Specific collection days for each street to be resurfaced will be provided to the contractor prior to the start of the project. The contractor shall schedule the work to allow and provide access for refuse and recycling contractors to collect these materials. If the refuse and recycling contractors are unable to

collect materials due to construction operations, then the construction contractor shall collect and dispose of the refuse, and collect and deliver the recyclable material to the Material Recovery Facility (MRF) on River Road at no cost to the city. It is the responsibility of the construction contractor to contact the refuse and recycling contractors to coordinate operations and to resolve complaints.

### **Quantities**

Although a compilation of measurements was taken, all quantities are estimated only. Any increase or decreases in the quantities are at the discretion of the City Inspector.

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR  
**TECHNICAL SPECIFICATIONS**

City of MtPleasant

1 of 1

June 15

**GENERAL REQUIREMENT**

The 2012 MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION shall govern all technical specifications of this contract. The following parts of the contract will prevail over all other parts in the following order:

- A. Special Provisions
- B. Supplemental Specifications
- C. Project Plans and Drawings
- D. City of Mt. Pleasant Standard Special Provisions
- E. MDOT Standard Plans
- F. MDOT Standard Specifications
- G. City of Mt. Pleasant Standard Construction Specifications

The Contractor shall not take advantage of any apparent error or omission in the contract documents. If any uncertainty, inconsistency, omission, or conflict is discovered in the contract documents, the Engineer will decide as to the true intent.

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR  
**LINES, LEVELS, AND SURVEYS**

City of Mt Pleasant

1 of 1

June, 2014

Staking is by the Contractor. The contractor shall carefully preserve all benchmarks, reference points, grade stakes, and other necessary control points and be held responsible for all errors that may result from their loss or disturbances.

City of Mt. Pleasant

SPECIAL PROVISION  
FOR

**UTILITY COORDINATION**

City of MtPleasant

1 of 2

June 15

The contractor shall cooperate and coordinate construction activities with the owners of utilities as stated in Section 104.08 of the 2012 MDOT Standard Specifications for Construction. In addition, for the protection of underground utilities, the contractor shall follow the requirements in Section 107.12 of the 2012 MDOT Standard Specifications for Construction. Contractor delay claims, resulting from a utility, will be determined based upon Section 109.05E of the 2012 MDOT Standard Specifications for Construction.

**A) General**

For protection of underground utilities, the Contractor shall call the Miss Dig system at (800) 482-7171 a minimum of three (3) working days prior to excavating. Members will thus be routinely notified. This does not relieve the Contractor of the responsibility of notifying utility owners who may not be a part of the Miss Dig alert system.

**B) Coordination with Utilities**

During the course of the construction, the Contractor will encounter both overhead and underground utilities. The contact information of the utility company representatives are as follows:

Consumers Energy - Electric  
Richard Klender  
1325 Wright Avenue  
Alma, MI 48801  
(517) 466-4279

Charter Communication – Cable TV  
Jeff Price  
915 E. Broomfield Rd.  
Mt. Pleasant, MI 48858  
(989) 773-7090

DTE Energy/MichCon – Gas  
Dave Newcomb  
609 Bjornson  
Big Rapids, MI 49307  
(231) 592-3244

City of Mt. Pleasant – Water, Sanitary &  
Storm Sewer  
Jason Moore  
1303 N. Franklin Ave.  
Mt. Pleasant, MI 48858  
(989) 779-5405 or (989) 779-5401

Frontier – Telephone  
Mark Marshall  
345 Pine Street  
Alma, MI 48801  
(989) 463-0392

The Contractor's attention is directed to existing underground gas mains, which are located adjacent to or near the work. The Contractor shall use extreme care when working in these areas, and shall notify DTE Energy/MichCon Gas Company at least three (3) working days in advance before beginning any excavation in these areas.

CMU requires notification of new utility installations for the purpose of GPS/GIS locating.

**C) Relocation**

If Utility relocation work is anticipated for this project, contact the appropriate utility company immediately to coordinate relocations. This will minimize delays to the Contractor's operations due to utility work.

Owners of public or private utilities will not be required to relocate utilities in order to facilitate the operations of construction equipment, unless it is determined by the Engineer that such poles or structures constitute a hazard to the public or are extremely dangerous to the Contractor's operations.

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR  
**MAINTAINING TRAFFIC**

City of MtPleasant

1 of 2

June 15

**A) Description**

Traffic shall be maintained throughout the project according to sections 104.11 and 812 of the Michigan Department of Transportation 2012 Standard Specifications and as specified herein. The Contractor shall for the safety and protection of through and local traffic, furnish, erect, and maintain traffic control devices as shown on the plans and as directed by the Engineer. The Contractor shall remove the traffic control devices in a prompt, safe, and orderly manner upon completion of the work or when directed by the Engineer.

The Contractor shall maintain access to business and residential driveways at all times as described herein.

The Contractor shall notify the Engineer a minimum of 72 business hours prior to the implementation of any detours, street closures, or lane closures.

Traffic control elements, traffic control devices, barricade lighting, barricade spacing, taper lengths, etc., shall conform to the requirements of the 2005 edition of the Michigan Manual of Uniform Traffic Control Devices as amended, unless otherwise specified herein. This includes advance warning signs, barricades and channeling devices at intersecting streets, on which traffic is to be maintained.

The Contractor is required to contact all local and state police, fire, emergency services that have jurisdiction within the construction influence area a minimum of five (5) calendar days prior to the implementation of any lane closure or detours.

Changes and/or adjustments to the maintaining traffic plans and standards may be applied as determined by the Engineer.

1) Construction Influence Area (CIA)

The CIA shall include the right-of-way of the street where work is to take place from the beginning to the end of the construction signing and inclusive of all the construction signing on the intersecting streets & detours.

**B) Materials**

All traffic control devices and their usage shall conform to the 2005 edition of the Michigan Manual of Uniform Traffic Control Devices as amended, and as specified as herein.

Construction signing shall be required as shown in the Maintaining Traffic plan sheets.

Signs, barricades, and plastic drums shall be cleaned over the entire surface as required by the Engineer.

1) Temporary Signs

All signs must be approved by the Engineer prior to use.

All diamond-shaped warning signs shall be 48" x 48" mounted at a 7' minimum bottom height. Distances shown between construction warning, regulatory, and guide signs shown on the plans and typical are approximate and may require field adjustment, as directed by the Engineer.

All temporary signs shall be constructed with legends and symbols flush to the sign's face and not extending beyond the sign borders or edges. Temporary warning, regulatory, and guide signs not required for a particular work Operation shall be removed, completely covered, or laid down with the legs off, as directed by the Engineer.

**C) Measurement and Payment**

This work will be measured and paid as specified in section 403 & 802 of the Standard Specifications using the following contract items (pay items).

**Contract Item (Pay Item)    Pay Unit**

Maintaining Traffic..... Lump Sum

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR  
**DETECTABLE WARNING SURFACE, MODIFIED**

City of Mt. Pleasant

1 of 1

June 2014

**A) Description**

This work shall be done in accordance with the requirements of Standard Plan R-28 series and Section 803 of the 2012 Standard Specifications for Construction except that the detectable warning plate shall be an asphalt dipped Cast Iron warning plate.

**B) Materials**

The detectable warning plate shall be an asphalt dipped Cast Iron warning plate meeting the requirements of section 803 of the 2012 Standard Specifications for Construction.

**C) Construction**

This work shall be done in accordance with the requirements of Standard Plan R-28 series and Section 803 of the 2012 Standard Specifications for Construction except that the detectable warning plate shall be an asphalt dipped Cast Iron warning plate.

**D) Measurement and Payment**

The complete work as measured for Detectable Warning Surface, Modified will be paid for at the contract unit price for the following contract pay items and includes all material, equipment, and labor to complete this item.

**Contract Item (Pay Item)**

**Pay Unit**

Detectable Warning Surface, Modified .....Foot

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR  
**RESTORATION, MODIFIED**

City of MtPleasant

June 15

**A) Description**

This work shall include all labor, materials and equipment to clean up and restore public and private ground to a condition equal to or better than that which existed prior to construction. This includes removal and legal disposal of all construction debris, litter, and materials.

**B) Materials**

1) Topsoil

Black dirt or natural surface soil, high in organic material, free from stones, brush, debris, objectionable weeds, or other litter, and approved by the City Engineer prior to spreading. The engineer may perform a soil test prior to approval. Peat material is not acceptable.

2) Fertilizer

Fertilizer shall be commercial seed starting 20-10-10 grade supplied in the manufacturer's packaging with composition clearly marked. Bulk fertilizer may be used when certified delivery slips are furnished by the Contractor, meeting section 816 of the 2012 MDOT specifications.

3) Seed

Seed material and application shall meet section 816 of the 2012 MDOT specifications, using TUF seed mixture.

4) Mulch and Adhesive

Mulch and adhesives shall meet section 816 of the 2012 MDOT specifications, for wood fiber mulch. Paper mulch or straw are not acceptable.

**C) Construction**

1) Preparation of Seed Bed

i) Grading

Grades on areas to be seeded shall be maintained in a true and even condition. Where the grades are not defined, they shall be established by the Contractor to blend with existing adjacent grades without irregularities and shall provide for proper drainage.

**ii) Placing Topsoil**

Topsoil shall be evenly spread by blade graders, or other approved methods, to a minimum depth of four inches (4"). Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the formation of depressions where water will stand. Topsoil shall not be placed until the subgrade has been smoothly graded and compacted, and the engineer or inspector approves the subgrade in writing.

**iii) Application of Fertilizer**

Fertilizer shall meet the requirements of section 812 of the 2012 MDOT specifications for Class A fertilizer.

**iv) Cleanup**

After completion of the above operations, the surface shall be cleared of stones, roots, brush, wire, grade stakes, and other objects that might be a hindrance to maintenance operations.

**2) Seeding**

TUF seed mixture meeting requirements of section 816 of the 2012 MDOT specifications shall be used on all lawn areas and adjacent backslopes. No seeding shall be done until the Engineer has inspected the seed container and has given written approval of the topsoil. Seeding for erosion control measures shall be cereal rye seed.

**3) Mulching**

**i) Straw and Hay Mulch**

As part of the seeding and fertilizing operations, wood fiber mulch shall be spread over the surface as required in section 816 of the 2012 MDOT specifications. Paper mulch is not acceptable.

**ii) Mulch Adhesive**

Mulch shall be held in place by a spray coating of mulch adhesive. The Contractor shall protect all traffic, signs, structures, and other objects from being marked or disfigured by the adhesive material. Fire hydrants shall be covered prior to the placement of all sprayed materials. Adhesive material shall be applied uniformly at a rate of 400 gallons per acre, sprayed simultaneously with the mulch, or a surface application of adhesive sprayed immediately following mulching.

**4) Establishment of Seeded Areas**

The Contractor shall be responsible for the proper care of the seeded area during the period when the grass is becoming established, and shall be responsible for a total grass cover. The acceptance of the work will not be given until grass cover is established.

**i) Watering**

Seeded areas shall be watered whenever excessive drying is evident during the period set for establishment of the seeded area. The Contractor shall be responsible for the proper care of the seeded areas and for the establishment of a uniform stand of grass until final acceptance of the entire work covered by the Contract.

The City has established a program to encourage residents to water the newly seeded areas, to help establish the lawn. Residents will be given a credit on their water bill for watering the newly seeded areas.

**ii) Weeds**

After the grass has become established, if it appears to have more than ten percent (10%) weeds, the Contractor shall spray with an approved herbicide (weed killer).

**D) Measurement and Payment**

Restoration, Modified shall be paid for by the foot as measured along the project centerline and will include all work necessary to restore both sides of the street. The price paid shall be payment in full for all Restoration, Modified work.

**Contract Item (Pay Item)**

**Pay Unit**

Restoration, Modified..... Lft

City of Mt. Pleasant  
SPECIAL PROVISION  
FOR

**HMA, Ultra-Thin, Modified**

City of MtPleasant

1 of 5

June 15

**A) Description**

This special provision provides acceptance testing requirements for use on HMA Ultra-Thin Overlay mixture.

**B) Materials**

The HMA and materials shall meet the following requirements:

- 1) Bond Coat. The bond coat material will be emulsified asphalt conforming to the requirements of Section 904 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, Type SS1h.
- 2) HMA Ultra-Thin Overlay. The Ultra Thin HMA Overlay shall be composed of a mixture of aggregate, asphalt binder, and if required, mineral filler, as listed in Table 1.

**Table 1 - HMA Ultra-Thin Overlay Mixture Requirements**

Parameter	Low Volume Comm. ADT <380	Medium Volume Comm. ADT 380 - 3400	High Volume Comm. ADT >3400
Marshall Air Voids %	4.5	4.5	5.0
VMA % (min.) based on Gsb	15.5	15.5	15.5
Fines/Binder % Max.	1.2	1.4	1.4
Flow (0.01 in.)	8-16	8-16	8-16
Stability Min. (lbs)	1200		

- 3) Aggregate Gradation and Physical Properties. The combined gradation of the aggregate portion of the mixture, including the mineral filler, shall be within the limits of Table 2. The physical properties of the combined aggregates shall meet the criteria of Table 3.

**Table 2 - HMA Ultra-Thin Overlay Aggregate Gradation**

Sieve Size	Total Passing Percent by Weight
½ inch	100
3/8 inch	99-100
No. 4	75-95
No. 8	55-75
No. 30	25-45
No. 200	3-8

**Table 3 - HMA Ultra-Thin Overlay Aggregate Physical Requirements**

Parameter	Low Volume Comm. ADT <380	Medium Volume Comm. ADT 380 - 3400	High Volume Comm. ADT >3400
Percent Crush (min.)	50%	75%	95%
Angularity Index (MTM 118) (min.)	2.5	3.0	4.0
L.A abrasion loss (max.)	40	35	35
Aggregate Wear Index (AWI)	(a)	(a)	(a)
AWI of 220 is required for projects with less than or equal to 2000 ADT, projects with ADT greater than 2000 the minimum AWI requirement is 260.			

In addition, the sum of the shale, siltstone, ochre, coal, clay-ironstone and particles which are structurally weak or are found to be non-durable in service shall not exceed 8.0 percent.

Performance Graded (PG) Ground Tire Rubber Modified Asphalt Binder. Binder selection is based on present day two-way commercial ADT as listed in Table 4. The modified HMA mixes shall utilize Performance Graded (PG) Ground Tire Rubber Modified Asphalt Cement (GTR PG 76-22) meeting the following requirements:

The material shall meet the requirements of AASHTO M 320, Table One "Standard Specifications for Performance Graded Asphalt Binder." Ground Tire Rubber (GTR) meeting 30-mesh per ASTM D – 5644-01, shall be added to the base asphalt cement to achieve the specified performance grade. Air blown asphalt and other modifiers will not be allowed. The modified asphalt cement shall be smooth, homogeneous, and comply with the requirements as follows:

**TEST FOR ELASTICITY**

<u>Property</u>	<u>Test Method</u>	<u>Result</u>
Elastic Recovery, 77°F, 100 mm elongation, %	AASHTO T 51	Min 60

The elastic recovery shall be performed according to AASHTO T 51 with the following modifications:

The standard v-shaped sides for the specimen mold shall be replaced by straight-sided inserts of the same length so the specimen will contain a section 10 mm x 30 mm.

The sample shall be elongated to 100 mm and then immediately cut approximately in half with scissors.

After one hour in the bath, the ends of the cut sample shall be brought together to just touch and the length of the recovered sample measured and recorded as A. The percent elastic recovery (R) shall be calculated as follows:

$$R = 100 - A$$

The liquid asphalt shall be GTR modified asphalt as described above. The Contractor shall provide a mix design to the agency for evaluation and recommendation of any changes by their personnel or their designated representative. The Contractor shall notify the Engineer at least 10 days prior to starting the project, so that a representative of the asphalt supplier can be present during initial mixing and placement.

If the Contractor has specific questions on handling, storage, production, application, or rolling procedures for GTR PG 76-22 Ground Tire Rubber modified asphalt, they should contact the liquid asphalt supplier directly for information.

**Table 4 - Asphalt Binder Selection for HMA Ultra-Thin Overlay**

Low Volume Comm. ADT <380	Medium Volume Comm. ADT 380 - 3400	High Volume Comm. ADT >3400
GTR PG 64 -22*	GTR PG 64 -28	GTR PG 70-22*
* In areas North of M-46, May use PG 58-28 (Low) or PG 70-28P (High)		

### C) Construction

- 1) Bond Coat Application. The bond coat material will be applied to completely cover the prepared surface at a rate of 0.11 - 0.15 gal/yd<sup>2</sup>.
- 2) Mixture Application Rate. The target application rate shall be 110 lb/yd<sup>2</sup>, unless specified by the engineer to address special circumstances.
- 3) Mix Design. The Contractor shall submit to the Owner a complete mix design for review prior to the start of production.
- 4) Quality Control. The Contractor shall provide and follow a Quality Control (QC) plan for the Ultra Thin HMA Overlay that will maintain adequate QC for production and construction processes applicable to this specification and the contract documents. For QC purposes, the Contractor must perform at least one QC test per day for gradation, AC content, and air voids, and is allowed to take informational cores for application rates. The Owner shall be provided a copy of the QC plan for review, prior to mix production and placement. After the job-mix-formula is established, the aggregate gradation and the binder content of the HMA mixture furnished for the work shall be maintained within the Range 1 uniformity tolerance limits permitted for the job-mix-formula specified in Table 5. However, if deviations are predominantly either below or above the job-mix-formula, the Owner may order alterations in the plant to bring the mixture to the job-mix-formula. If two consecutive aggregate gradations on one sieve, or binder contents as determined by the QC tests, are outside Range 1 but within Range 2 tolerance limits, the Contractor shall suspend all operations. Contract time will continue during these times when the plant is down. Before resuming any production, the Contractor shall propose, for the Owner's approval, all necessary alterations to the materials or plant so that the job-mix-formula can be maintained. The Owner, after evaluating for effects on AWI and mix design properties, will approve or disapprove such alterations.

**Table 5 – Uniformity Tolerance Limits (for QC and Acceptance)**

PARAMETER	* Range 1	Range 2
Air Voids**	± 1.0	± 2.0
Binder Content	± 0.40	± 0.50

% Passing # 8 and Larger Sieves	± 5.0	± 8.0
% Passing # 30 Sieve	± 4.0	± 6.0
% Passing # 200 Sieve	± 1.0	± 2.0
* This range allows for normal mixture and testing variations. The mixture shall be proportioned to test as closely as possible to the Job-Mix-Formula.		
** Air Void limits apply to QC testing and are optional for Acceptance testing.		

- 5) **Crushed Particle Content.** The crushed particle content of the aggregate used in the HMA mixture shall not be more than 10 percentage points above or below the crushed particle content used in the job-mix-formula nor less than the minimum specified for the aggregate in the project documents.
- 6) **Density.** Thoroughly compact the mixture immediately after placement using the number of rollers method.
- i) **Number of Rollers Method.** The number of compactive and finish rollers used shall be as specified in Table 6 based on the square yards per hour of Ultra Thin HMA Overlay being placed.

**Table 6 – Number of Rollers Required based on Placement Rate**

Average Laydown Rate, square yards per hour	Number of Rollers Required	
	Compaction Rollers	Finish Rollers
Less than 800	1	1*
801 – 2000	1	1
2001 – 5500	2	1
5501 – 7200	3	1

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

**D) Acceptance Sampling and Testing.** Acceptance sampling and testing may be performed by the Owner. Each day of production, a minimum of two samples will be obtained for each mix type. Acceptance testing will be performed at the frequency specified by the Owner. No less than three samples shall be obtained for each mix type.

**E) Rejected Mixtures.** If for any one mixture, two consecutive aggregate gradations on one sieve or binder contents as determined by acceptance tests exceed the uniformity tolerance of Range 2 under Table 5, or do not meet the minimum requirements for crushed particle content specified in the project documents, the mixture will be rejected. If such mixtures are placed in a pavement, the remaining portions of the failing acceptance samples (split sample) will be sent to an independent Laboratory to confirm the acceptance test results. If the Laboratory's results do not confirm the acceptance test results, then no price adjustments will be made for the mixture involved. If the Laboratory's results confirm the acceptance test results and if, in the Owner's judgment, the defective mixture can remain in place, the contract unit price for the defective mixture involved, as determined from acceptance tests, will be decreased on the

following basis: The contract unit price for material outside of Range 2 will be decreased 25 percent.

The Owner may take into account the Contractor's QC test results when making acceptance decisions and price adjustments.

**F) Measurement and Payment.** The completed work as measured will be paid for at the contract unit price for the following contract item:

**G) Measurement and Payment**

This work will be measured and paid as specified in section 403 & 802 of the Standard Specifications using the following contract items (pay items).

<b>Contract Item (Pay Item)</b>	<b>Pay Unit</b>
HMA, Ultra-Thin, Low Volume, Modified.....	Ton
HMA, Ultra-Thin, Medium Volume, Modified.....	Ton
HMA, Ultra-Thin, High Volume, Modified.....	Ton

City of Mt. Pleasant, Michigan

**ADMINISTRATIVE MEMO NO 8-78**

Issued: October 10, 1978

Revised: June 21, 1989

Subject: **MINIMUM INSURANCE REQUIREMENTS FOR CONTRACTORS**

Summary Statement

The provision of adequate insurance by persons and businesses working for the city or on street right-of-way is essential to protect the public from the costs of injury or damage and to protect the city from unnecessary liability resulting from the acts of persons and businesses working for the city. Minimum insurance requirements are needed to provide this protection.

Memo

Persons or businesses which provide professional services to the city under the terms of a written contract or provide labor and/or material to accomplish work for the city or for others on or over street right-of-way or other city property shall carry insurance and bonds to protect the public and the City from exposure to unnecessary financial risks.

Prior to signing of contracts, issuance of purchase orders or permits, or other authorization to begin work, certificates of insurance evidencing the purchase of insurance in amounts not less than required by the Administrative memo or bid specifications, whichever is greater, shall be filed with City Clerk. Such certificates shall:

- a. Show that the insurance is currently in force and termination date of each policy.
- b. State the limits of liability of the policies covered by the certificate.
- c. Show that the City of Mt. Pleasant is to be specifically named in policy as an "additional insured" and should be issued to the City of Mt. Pleasant as the certificate holder.
- d. Provide that the City will receive not less than 10 days written notice of the cancellation of any listed policy.
- e. Be issued in the name of an insurance company authorized to conduct business in the State of Michigan.

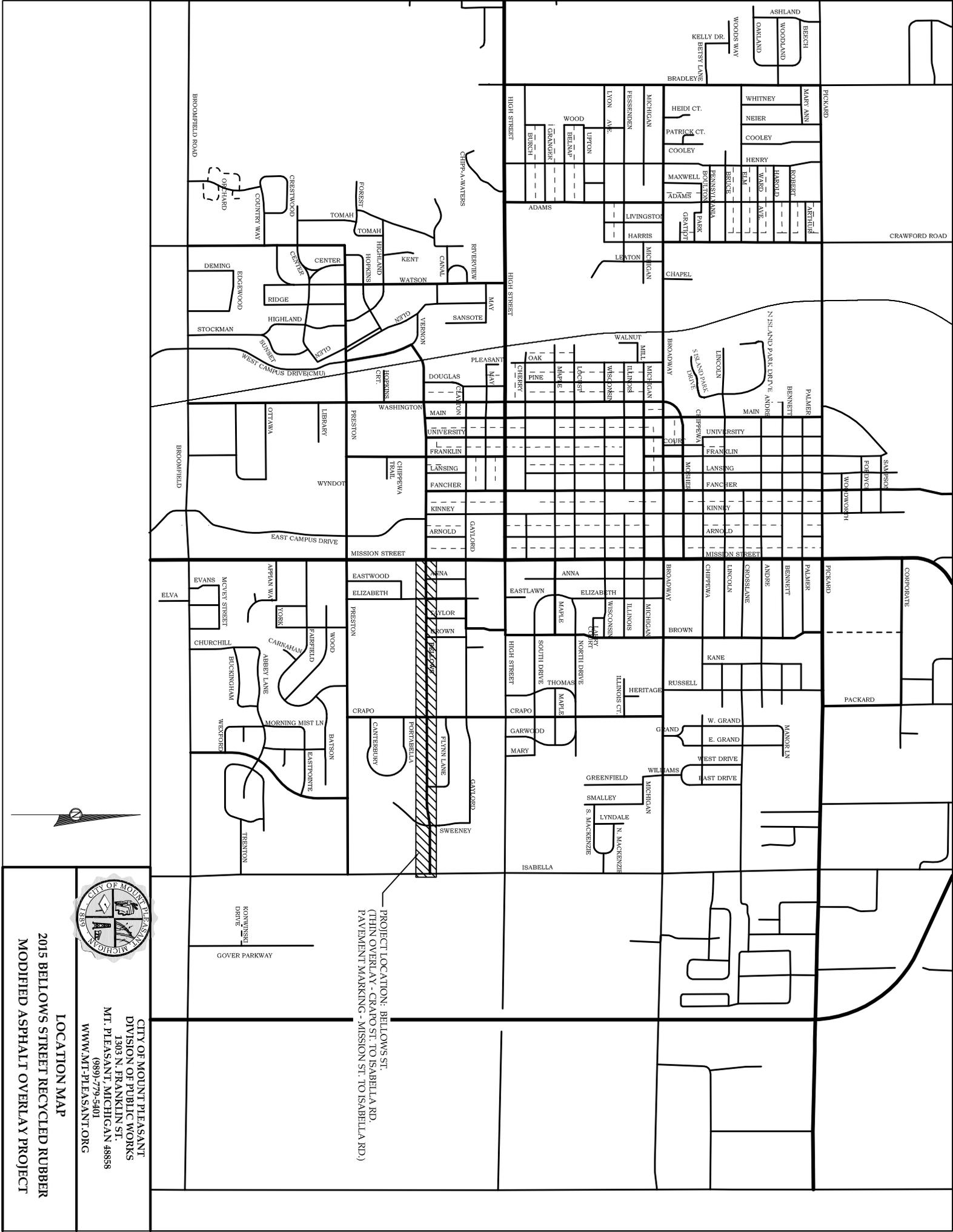
Required bonds shall be filed with the City Clerk prior to the signing of contracts or other authorizations to proceed with work.

Insurance and bonds shall meet or exceed the following requirements. Exceptions to recognize more or less hazardous operations and financial risks should be considered and with approval of the City Manager may be made in specifications or contract requirements prior to awarding contracts or issuing purchase orders.

**INSURANCE REQUIREMENTS**

Type	Limit of Liability	Required of: City Contractor	Contractor On R-O-W
Worker's Compensation and Employer's Liability	Statutory Coverage B \$100,000	X	X
Public Liability (including products and completed operations liability)			
Bodily Injury	\$250,000 each person	X	X
	\$500,000 each accident	X	X
Property Damage	\$250,000 each accident	X	X
	\$250,000 each aggregate	X	X
Automobile Liability (including hired cars and automobile non-ownership)			
Bodily Injury	\$250,000 each person	X	X
	\$500,000 each occurrence	X	X
Property Damage	\$250,000 each accident	X	X
	\$250,000 each aggregate	X	X
Additional Insured Clause	City of Mt. Pleasant to be specifically named in policy as an "additional insured"	X	X
Excess Liability (Required unless risk occurrence is nominal)	\$1,000,000 each	X	

Persons or businesses engaged to provide labor and material in an amount in excess of \$10,000, or who will receive partial payments as work progresses will provide labor, performance and material bonds equal to the value of the work being performed. Such bonds are not required where the work to be done is of a type in which the failure to perform will not adversely affect the city's ability to function or increase the city's cost of completing the work.



PROJECT LOCATION: BELLOWS ST.  
 (THIN OVERLAY - CRAPO ST. TO ISABELLA RD.  
 PAVEMENT MARKING - MISSION ST. TO ISABELLA RD.)



CITY OF MOUNT PLEASANT  
 DIVISION OF PUBLIC WORKS  
 1303 N. FRANKLIN ST.  
 MT. PLEASANT, MICHIGAN 48858  
 (989)-779-5401  
 WWW.MT-PLEASANT.ORG

LOCATION MAP  
 2015 BELLOWS STREET RECYCLED RUBBER  
 MODIFIED ASPHALT OVERLAY PROJECT

# City of Mt. Pleasant Truck Route Map

