

April 28, 2016

ADDENDUM No. 2

ITB No. 4421

Street Crack Treatment - 2016

Due: May 2, 2016, on or before 2:00 P.M. (Local Time)

The following changes, additions, and/or deletions shall be made to the Bid Documents for Street Crack Treatments - 2016, for the City of Ann Arbor, Michigan, ITB No. 4421.

The information contained herein shall take precedence over the original documents and all previous addenda, and is appended thereto. **This Addendum includes 15 page(s).**

The Contractor is to acknowledge receipt of this Addendum No. 2 on page ITB-1 of the Bid Documents prior to submitting its Proposal.

The following forms provided within this ITB Document must be included in submitted bids.

- **City of Ann Arbor Prevailing Wage Declaration of Compliance**
- **City of Ann Arbor Living Wage Ordinance Declaration of Compliance**
- **Vendor Conflict of Interest Disclosure Form**
- **City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance**

Bids that fail to provide these completed forms listed above upon bid opening will be rejected as non-responsive and will not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes in the Bid Documents which are outlined below are referenced to a page or drawing in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they affect work or details in other areas not specifically referenced here.

Item #1: Pre-Bid Conference Summary and Sign-In Sheet pages ADD-2-3 thru ADD-2-5

Item #2: Bid Documents - Bid Form page BF-1; replace this page with attached page ADD-2-6. Note that a revised electronic file (Microsoft Excel format), *ITB 4421 Addendum 2 - E-Bid Form_2016-04-28.xlsx*, is available on the MITN website for use in completing the bid.

Item #3: Detailed Specification for Maintaining Traffic pages DS-5 thru DS-8; replace with attached pages ADD-2-7 thru ADD-2-11.

Item #4: Appendix page APDX-1; replace with attached page ADD-2-12.

Item #5: Include with Appendices Crack Treatments List – Major Streets page ADD-2-13.

Item #6: Include with Appendices Crack Treatments List – Minor Streets pages ADD-2-14 and ADD-2-15.

Bidders are responsible for any conclusions that they may draw from the information contained in the Addendum.

Street Crack Treatments – 2016 (ITB No. 4421)
Pre-Bid Conference Summary
April 20, 2016

11:00 a.m., 4th Floor Conference Room, City Hall

I. Introductions

II. General

a. Project Overview

Bid Opening – April 27, 2016, 10:00 a.m.

b. Standard Specifications and Detailed Specifications

i. Construction Specifications (MDOT 2012 Standard Specifications for Construction)

It was noted that the Detailed Specification for Crack Treatment include in the bid documents was based on the requirements of the MDOT 2012 Standard Specifications for Construction with only difference being the pay units.

ii. Project Schedule & Payment

- Starting Date – July 5, 2016
- Completion Date – September 30, 2016
- Hours of Work: 7:00 am – 8:00 pm Monday thru Saturday (Sundays w/approval)
- Payment – *It was noted that contract progress payments will be processed monthly.*

III. Construction

a. Project Log/Locations (Major Streets and Minor/Local Streets)

It was noted that a project log or listing of locations applicable to the project for both major streets and minor/local streets are is currently under development and is expected to be finalized by the end of the week.

b. Overband Crack Fill vs. HMA Crack Treatment.

It was noted that work related to Overband Crack Fill applies to the minor/local streets included in the project, and that for HMA Crack Treatment applies to major streets.

c. Maintenance of Traffic (lane closures/opening to traffic, local traffic access...)

The expectations for Maintenance of Traffic related to the project were briefly discussed, and it was noted that a revised detailed specification related this will be included as an addendum item.

d. Special Concerns (pedestrian access, notifications to public/property owners...)

The above parenthesized items were brought to the attention of those in attendance.

IV. Addendum Items

No addenda have been issued to date for this project; however, Addendum 1 is expected to be released by the end of the week (Friday, April 22, 2016). This addendum will include the project log or listing of major and minor/local street locations applicable to the project and a revised Detailed

Specification for Maintaining Traffic and any other changes warranted resulting from questions received from interested bidders.

V. Other Items

No other items of interest were discussed.

VI. Questions

The following questions were received by interested bidders and answered as shown.

1. Is this a living wage, or prevailing wage job?

Bidders are required to comply with both Prevailing Wage and Living Wage requirements of the City of Ann Arbor. See General Conditions: Section 4 – Wage Requirements, pages GC-1 and GC-2, and the Prevailing Wage and Living Wage Ordinance attachments in the bid document.

2. Do you have a map of the streets to be sealed?

We are presently finalizing a listing of the streets categorized by type (i.e., “Major” and “Minor/Local”). This will be issued as part of an addendum. A map will be issued to the successful bidder awarded the project contract prior to construction.

3. If not do we know how much is local & major roads

Quantities for the item “_ Overband Crack Fill, Lane” apply to “Minor/Local” streets, and they apply to item “_HMA Crack Treatment, Lane” for “Major” streets.

Contact Information:

David Dykman
Project Manager
Phone: (734) 794-6410 ext. 43685
Fax: (734) 994-1744
E-mail: ddykman@a2gov.org

PRE-BID CONFERENCE SIGN-IN SHEET

PROJECT: STREET CRACK TREATMENTS - 2016 (ITB No. 4421)

DATE: 04/20/2016

PLEASE PRINT

| NAME | REPRESENTING | MAILING ADDRESS | TELEPHONE | EMAIL |
|---|---|--|---|--------------------------------|
| David Dykman Project Manager | City of Ann Arbor - Project Management | Address: <u>301 E. Huron Street, P.O. Box 8647</u> City, State: <u>Ann Arbor, MI</u> Zip: <u>48107-8647</u> | Office: (734) 794-6410, x43685 Mobile: Fax: (734) 994-1744 | ddykman@a2gov.org |
| Gary Shively Civil Engineering Specialist (Project Inspector) | City of Ann Arbor - Project Management | Address: <u>301 E. Huron Street, P.O. Box 8647</u> City, State: <u>Ann Arbor, MI</u> Zip: <u>48107-8647</u> | Office: (734) 794-6410, x43652 Mobile: Fax: (734) 994-1744 | gshively@a2gov.org |
| David Clemens Supervisor - Civil Engineering Specialists | City of Ann Arbor - Project Management | Address: <u>301 E. Huron Street, P.O. Box 8647</u> City, State: <u>Ann Arbor, MI</u> Zip: <u>48107-8647</u> | Office: (734) 794-6410, x43612 Mobile: Fax: (734) 994-1744 | dclemens@a2gov.org |
| Kit Wingle | Wolverine Sealcoating LLC | Address: <u>545 Shirley Drive</u> City, State: <u>Jackson, MI</u> Zip: <u>49202</u> | Office: (517) 962-4261 Mobile: (517) 745-1390 Fax No. (517) 513-8065 | Sales@wolverine-seal.com |
| David Bacci | Michigan JOINT SEALING | Address: <u>28850 W Bnile</u> City, State: <u>F Hills</u> Zip: <u>48336</u> | Office: (248) 476 4120 Mobile: (248) 255 1857 Fax No. (248) 476 7639 | MJSINC5@ STC GLODNL. NET |
| Ammer Hamamy | City of Ann Arbor | Address: <u>301 E. Huron</u> City, State: Zip: <u>48107</u> | Office: () Mobile: (734) 330-1292 Fax No. () | ahamamy@azgov.org |
| Carl & Emmons | City of Ann Arbor | Address: <u>301 E. Huron</u> City, State: Zip: <u>48107</u> | Office: () Mobile: (517) 605-9342 Fax No. () | cemmons@a2gov.org |
| Rick Ayres | Spartan Paving | Address: <u>9690 Andersonville Rd</u> City, State: <u>Clarkston, MI</u> Zip: <u>48346</u> | Office: (248) 625-1575 Mobile: (248) 520-4659 Fax No. (248) 625-1576 | rayres@spartanpaving.com |

CHRIS BLACKFORD AZ 301 E. HURON 810 426-1420 cblackforde@a2gov.org

BID FORM

Street Crack Treatment - 2016
 File No. 2016-023
 Bid No. 4421

Section 1 - Schedule of Prices

| <u>Line No.</u> | <u>Item No.</u> | <u>Item Description</u> | <u>Unit</u> | <u>Estimated Quantity</u> | <u>Unit Price</u> | <u>Total Price</u> |
|-----------------------|-----------------|--|-------------|---------------------------|-------------------|--------------------|
| 10 | 1050001 | Mobilization, Max. \$50,000.00 | LSUM | 1.000 | \$ _____ | \$ _____ |
| 20 | 5027004 | _Overband Crack Fill, Lane | Lnmi | 29.308 | \$ _____ | \$ _____ |
| 30 | 5027004 | _HMA Crack Treatment, Lane | Lnmi | 72.335 | \$ _____ | \$ _____ |
| 40 | 8120030 | Channelizing Device, 42 inch, Furn | Ea | 900.000 | \$ _____ | \$ _____ |
| 50 | 8120031 | Channelizing Device, 42 inch, Oper | Ea | 900.000 | \$ _____ | \$ _____ |
| 60 | 8120140 | Lighted Arrow, Type C, Furn | Ea | 4.000 | \$ _____ | \$ _____ |
| 70 | 8120141 | Lighted Arrow, Type C, Oper | Ea | 4.000 | \$ _____ | \$ _____ |
| 80 | 8120170 | Minor Traf Devices | LSUM | 1.000 | \$ _____ | \$ _____ |
| 90 | 8120310 | Sign Cover | Ea | 10.000 | \$ _____ | \$ _____ |
| 100 | 8120350 | Sign, Type B, Temp, Prismatic, Furn | Sft | 1616.000 | \$ _____ | \$ _____ |
| 110 | 8120351 | Sign, Type B, Temp, Prismatic, Oper | Sft | 1616.000 | \$ _____ | \$ _____ |
| 120 | 8120352 | Sign, Type B, Temp, Prismatic, Speical, Furn | Sft | 32.000 | \$ _____ | \$ _____ |
| 130 | 8120353 | Sign, Type B, Temp, Prismatic, Speical, Oper | Sft | 32.000 | \$ _____ | \$ _____ |
| 140 | 8120370 | Traf Regulator Control | LSUM | 1.000 | \$ _____ | \$ _____ |
| TOTAL BASE BID | | | | | | \$ _____ |

CITY OF ANN ARBOR
DETAILED SPECIFICATION
FOR
MAINTAINING TRAFFIC

AA:DAD

1 of 5

04/28/16

a. Description. This work consists of all labor, materials, and equipment required to maintain traffic in accordance with this special provision for the Street Crack Treatment locations included in this project.

b. General. Traffic shall be maintained by the Contractor throughout the project duration in accordance with the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, the 2011 Michigan Manual of Uniform Traffic Control Devices (MMUTCD), applicable supplemental specifications, as directed by the Engineer, and as herein specified.

1. Notify the Project Engineer a minimum of 10 business days prior to the implementation of any lane closures.
2. Coordinate operations with Contractors performing work on other projects within or adjacent to the Construction Influence Area (CIA).
3. City of Ann Arbor maintenance crews and/or contract maintenance agencies may perform maintenance work within or adjacent to the Construction Influence Area (CIA). The City of Ann Arbor Field Operation Services Unit and/or contract maintenance agency will coordinate their operations with the Engineer to minimize the interference.
4. The following, and herein included, MDOT Maintaining Traffic Typical and Work Zone Device Details apply to the project: M0020a, M0050a, M0090a, M0110a, M0120a, M0140a, M0150a, M0231a, M0232a, M0240a, M0250, M0270a, M0300a, M0310a, M0370a, M0380a, M0400a, M0410a, M0430a, M0440a, M0490a, M0500a, WZD-100-A, and WZD-125-E.
5. These maintaining traffic provisions are subject to change in the event of special community activities.

c. Construction Influence Area (CIA). The CIA includes the right-of-way of each of the Street Crack Treatment locations included in this project, including that approximately 2,500 feet in advance of and departing the work zone for major streets, and 1,500 feet in advance of and departing the work zone for minor (local) streets. It also includes the rights-of-way of any intersecting streets adjacent to the work zone for a distance noted in signing standards.

d. Materials. Materials for all devices used to temporarily control and maintain traffic shall meet the requirements of section 812 of the MDOT 2012 Standard Specifications for Construction, the MMUTCD, and the applicable MDOT typicals and details included herein.

All signs shall be 48 inches by 48 inches, unless otherwise noted. Temporary signs, which are to remain in the same place for 14 days or more, shall be installed on driven posts. All other temporary signs may be installed on portable supports. All signs shall have a minimum bottom height of 7.0 feet.

Channelizing devices required for all lane closures shall be 42 inch channelizing devices.

e. Construction. Construction methods shall meet the requirements of section 812 of the MDOT 2012 Standard Specifications for Construction.

The Contractor shall furnish and place all necessary temporary traffic control devices to maintain traffic during construction. All work, construction equipment, and material storage shall be kept behind the curb, or behind barricades or channelizing devices, all in combination with protective fencing, if required to protect open excavations, and shall not in any way hamper vehicle movement or impair traffic vision. The contractor shall also provide protection to all uncured concrete sidewalk, driveways, and curb and gutter as may be needed until all traffic, either foot or otherwise, can cross without damage. Additional barricades and protective fencing shall be installed at the end of each day to insure no disturbance to the work area.

Distances between warning, regulatory, and guide signs as shown on the typical and details are approximate, and may require field adjustment, as directed by the Engineer.

The Contractor shall maintain a minimum of one (1) lane of traffic in each direction on major streets, one-way traffic utilizing flag control on local streets, and keep all intersections open to traffic at all times, unless specifically authorized in writing by the Engineer.

The Contractor shall maintain traffic such that no vehicle shall be required to drive into active work areas.

All temporary traffic/pedestrian control devices furnished by the Contractor shall remain the property of the Contractor. The City shall not be responsible for stolen or damaged signs, barricades, plastic drums and other traffic maintenance items. The Contractor shall replace missing and/or damaged traffic control devices immediately, at no additional cost to the City.

The Contractor shall furnish, erect, maintain, and upon completion of the work, remove all traffic control devices within and around the CIA for the safety and protection of traffic. This includes, but is not limited to, regulatory and warning signs, barricades, channeling devices and other minor devices where required by the Engineer.

The Contractor shall coordinate its operations with all subcontractors, utilities, and/or other contractors performing work on this and other projects within, or adjacent to, the Construction Influence Area (CIA). The contractor shall avoid conflicts in maintaining traffic operations, signing, and orderly progress of other contract work.

The Contractor must submit a work zone traffic control plan to the Engineer in accordance with section 104 of the *2012 Standard Specifications for Construction*. The Engineer will have seven (7) calendar days to review the plan for acceptance or provide comments for plan revisions required to obtain acceptance. At a minimum, the plan shall include the proposed ingress/egress locations for construction equipment and vehicles, traffic control devices that will be utilized to warn the motoring public of ingress/egress locations, and measures that will be taken to ensure compliance with the plan. No work shall begin prior to acceptance of the work zone traffic control plan. Additional time required to obtain an accepted work zone traffic control plan shall not be cause for delay or impact claims. All costs associated with obtaining an acceptable plan, providing and executing all parts of the accepted plan including required traffic

control devices, or resolving an incomplete or unacceptable plan shall be borne by the Contractor.

1. Permits. Prior to the start of construction, the Contractor shall obtain a "Right-of-Way" Permit from City of Ann Arbor Customer Services Unit. The Contractor shall notify the Project Engineer and obtain a "Traffic Detour or Lane Closure" Permit from City of Ann Arbor Project Management Services Unit a minimum of 72 business hours prior to the implementation of any traffic shifts, lane closures and street closures. The fees for these permits will be waived.
2. Work Times and Restrictions. All work shall be conducted Monday through Saturday between 7:00am and 8:00pm; unless an alternate plan identifying the days and hours of work has been authorized by the City prior to commencement of construction. Should night work be required for any reason, the Project Engineer must be notified three (3) working days (72 hours) in advance of such work, and the work must have the approval of the City prior to commencement.

Only work of an emergency nature or work required to insure traffic safety shall be performed on Sunday and only with prior approval by the City.

No road work shall be performed nor traffic interruptions be permitted, including lane closures, on Sundays, and during the July 4th and Labor Day holiday periods, and the Ann Arbor Art Fair period. All streets and sidewalks that can be opened shall be opened. Trucking on or off site will not be permitted.

During non-working periods, any area with uncompleted work shall have plastic drums at specific locations and protective fencing, as directed by the Engineer, and at no additional cost to the project.

3. Traffic Restrictions. The Contractor shall, at all times, conduct its work to insure the least possible obstruction to traffic and inconvenience to the general public, businesses, and residents in the vicinity of the work.

Traffic on major streets should not be impacted between the hours of 7:00 a.m. to 9:00 a.m. and from 3:30 p.m. to 6:00 p.m. unless otherwise approved by the Engineer or as specified on the Lane Closure Permit. All major changes in traffic control shall be made either between 9:00 a.m. and 3:30 p.m. or between 7:00 p.m. and 6:30 a.m. in order to minimize interference with rush hour traffic. All traffic controls must be in place and ready for traffic each day by 6:30 a.m. and 3:30 p.m. Temporary obstruction of traffic for loading and unloading of trucks, and other construction activities, will be permitted with approval from the Engineer if the Contractor provides traffic regulators (flag persons) in conformance with Part VI of the MMUTCD. During temporary obstructions, a minimum of two traffic regulators are required. The cost of traffic regulators (flag control) shall be included in the contract pay item "Traf Regulator Control".

Access to businesses, residences, and side street(s) within the CIA shall be maintained for the duration of the project. The Contractor shall make every effort to coordinate its operations to minimize interruptions impacting this access. The Contractor shall notify the Project Engineer forty-eight (48) hours in advance of any work to be performed on or near business or residential driveways, and stage work

so that it is part-width when it is necessary to work in these areas. Prohibiting access to businesses and residences will not be allowed during any phase of construction, and flagging will be required at the discretion of the Engineer.

Do not place lane closures or traffic regulation sequences where work can be accomplished with a shoulder closure. Place lane closures and traffic regulation operations only in areas and situations deemed necessary by the Engineer.

Do not occupy any part of the active traffic lane when utilizing a shoulder closure with personnel or equipment. Avoid this situation or use a lane closure.

Utilize intermediate traffic regulators at all intersections and driveways with commercial traffic. A large number of intersections and commercial driveways may cause a reduction in the allowable length of lane closures. The cost of additional traffic regulators will be borne by the Contractor.

Cover or remove existing regulatory, warning, and construction signs that are not applicable during construction.

Construction signing that refers to work zone speed shall be covered when work at a location is planned to be inactive for a period greater than two working days or as directed by the Engineer.

A lane closure shall be removed from the through roadway as directed by the Engineer due to inclement weather conditions that would cause an unsafe traffic situation. A lane closure shall not be placed in the through roadway as directed by the Engineer due to inclement weather conditions that would cause an unsafe traffic situation.

Lane width shall be a minimum of 10 feet wide. Contractor shall schedule work so that under no circumstances traffic is stopped. The work within the CIA shall be suspended, during peak traffic hours and/or when traffic is being unduly hampered or delayed by all construction activity, at the discretion of the Engineer.

- 4. Emergency Services. The Contractor shall notify local police, fire departments and emergency response units a minimum of three business days (72 hours) prior to the closure of any lanes, or traffic shifts causing restricted movements of traffic or restricted access. Fire hydrants in or adjacent to the work shall be kept "live" and fire fighting forces made aware of their availability at all times during construction.

f. Measurement and Payment. The completed work for maintaining traffic, as described, will be paid for at the contract unit prices for the following items in accordance with subsection 812.04 of the Standard Specifications for Construction.

| <u>Pay Item</u> | <u>Pay Unit</u> |
|--|-----------------|
| Channelizing Device, 42 inch, Furn | Each |
| Channelizing Device, 42 inch, Oper..... | Each |
| Lighted Arrow, Type C, Furn..... | Each |
| Lighted Arrow, Type C, Oper | Each |
| Minor Traf Devices | Lump Sum |

| | |
|--|-------------|
| Sign Cover | Each |
| Sign, Type B, Temp, Prismatic, Furn | Square Foot |
| Sign, Type B, Temp, Prismatic, Oper | Square Foot |
| Sign, Type B, Temp, Prismatic, Special, Furn..... | Square Foot |
| Sign, Type B, Temp, Prismatic, Special, Oper | Square Foot |
| Traf Regulator Control..... | Lump Sum |

The estimated quantities for maintaining traffic are based on the signing and related traffic control devices deemed necessary for this project as shown on the applicable MDOT Maintaining Traffic Typical, and include traffic regulators, lighted arrows and minor traffic devices.

Payment for traffic control devices shall be based on the maximum quantity in place at any one time during the project, as determined by the Engineer. Non-standard specially fabricated signs, other than those used to determine the maximum square feet of signage, will be paid for separately by the unit square foot for each sign furnished and operated during construction.

Any additional signing or maintaining traffic devices required to expedite the construction shall be at the Contractor's expense.

Temporary traffic control devices will be paid for only once irrespective of the number of times moved. Traffic control devices not paid for separately shall be included in the payment for the pay item "Minor Traf Devices".

APPENDICES

MDOT Special Provisions

MDOT Supplemental Specifications

Crack Treatments List – Major Streets

Crack Treatments List – Minor Streets

STREET CRACK TREATMENTS - 2016

MINOR (LOCAL) STREETS: Pay Item "_Overband Crack Fill, Lane" Applies

| Street Name | Limits | | Beginning Milepoint | Ending Milepoint | Length (miles) | |
|----------------------|---------------------|--------------------------|---------------------|------------------|----------------|-------|
| | Beginning | Ending | | | Centerline | Lanes |
| Abbott Avenue | Collingwood St | Pleasant Pl | 0.109 | 0.278 | 0.169 | 0.338 |
| Anderson Avenue | Packard | Ferdon | 0.000 | 0.142 | 0.142 | 0.284 |
| Anderson Avenue | Anderson Ct | Carhart Ave | 0.219 | 0.335 | 0.116 | 0.232 |
| Arbana Drive | W Huron St | Arborview Blvd | 0.000 | 0.297 | 0.297 | 0.594 |
| Awixa Road | Geddes Ave | Highland Rd/Lafayette Rd | 0.000 | 0.197 | 0.197 | 0.394 |
| Baylis Drive | Stone School Rd | Stone School Rd | 0.000 | 0.362 | 0.362 | 0.724 |
| Belmar Place | Snyder Ave | W Keech Ave | 0.000 | 0.179 | 0.179 | 0.358 |
| Berkshire Road | Washtenaw Ave | Hill St | 0.000 | 0.409 | 0.409 | 0.818 |
| Bruce Street | Arborview Blvd | Alice St | 0.000 | 0.120 | 0.120 | 0.240 |
| Buckingham Court | Buckingham Rd | Dead End | 0.000 | 0.029 | 0.029 | 0.058 |
| Champagne Drive | Shadowood Dr | Stone School Rd | 0.000 | 0.659 | 0.659 | 1.318 |
| Cherokee Road | Baldwin Ave | Ferdon Rd | 0.000 | 0.197 | 0.197 | 0.394 |
| Downing Court | Champagne Dr | Dead End | 0.000 | 0.038 | 0.038 | 0.076 |
| Dundee Drive | Morehead Dr | Dead End | 0.000 | 0.166 | 0.166 | 0.332 |
| Dwight Street | Baylis Dr | Baylis Dr | 0.000 | 0.124 | 0.124 | 0.248 |
| E Eden Court | Champagne Dr | Dead End | 0.000 | 0.044 | 0.044 | 0.088 |
| E Kingsley Street | N Main St/Beakes St | N 4th Ave | 0.131 | 0.197 | 0.066 | 0.132 |
| E Summit Street | N Main St | N Fourth Ave | 0.560 | 0.637 | 0.077 | 0.154 |
| Elmcrest Street | Miner St | Dead End | 0.000 | 0.039 | 0.039 | 0.078 |
| Englewood Court | Champagne Dr | Dead End | 0.000 | 0.095 | 0.095 | 0.190 |
| Fair Oaks Parkway | Norway Rd | Washtenaw Ave | 0.237 | 0.301 | 0.064 | 0.128 |
| Farmbrook Court | S Service Dr | Dead End | 0.000 | 0.095 | 0.095 | 0.190 |
| Faust Court | Champagne Dr | Dead End | 0.000 | 0.058 | 0.058 | 0.116 |
| Felch Street | N Ashley St | N Main St | 0.380 | 0.445 | 0.065 | 0.130 |
| Foss Street | N Maple Rd | Dead End | 0.000 | 0.268 | 0.268 | 0.536 |
| Fulmer Court | Fulmer St | Dead End | 0.000 | 0.048 | 0.048 | 0.096 |
| Fulmer Street | Miller Rd | Fulmer Ct | 0.000 | 0.045 | 0.045 | 0.090 |
| Georgetown Boulevard | Plymouth Rd | Bluett Rd | 0.000 | 0.519 | 0.519 | 1.038 |
| Glen Court | Fuller St | Attribute Change | 0.000 | 0.041 | 0.041 | 0.082 |
| Glendaloch Circle | Glendaloch Rd | Dead End | 0.000 | 0.127 | 0.127 | 0.254 |
| Green Hills Drive | Earhart Rd | Earhart Rd | 0.000 | 0.392 | 0.392 | 0.784 |
| Harbal Drive | Leaird Dr | Dead End | 0.000 | 0.136 | 0.136 | 0.272 |
| Hemlock Drive | Champagne Dr | Dead End | 0.000 | 0.285 | 0.285 | 0.570 |
| Hiawatha Place | Barton Dr | Dead End | 0.000 | 0.050 | 0.050 | 0.100 |
| High Street | Carey St | Elizabeth St | 0.000 | 0.087 | 0.087 | 0.174 |
| Huntington Place | Ausable Pl | Riverview Dr | 0.075 | 0.257 | 0.182 | 0.364 |
| Kilbrennan Court | Champagne Dr | Dead End | 0.000 | 0.045 | 0.045 | 0.090 |
| Kirtland Drive | Glen Leven Rd | W Stadium Blvd | 0.000 | 0.248 | 0.248 | 0.496 |
| Leaird Drive | Harbal Dr | Broadway St | 0.000 | 0.058 | 0.058 | 0.116 |
| Lincoln Avenue | Wells St | Cambridge Rd | 0.000 | 0.246 | 0.246 | 0.492 |
| Linda Vista Avenue | Linwood Ave | Arborview Blvd | 0.000 | 0.180 | 0.180 | 0.360 |
| Linden Street | S University Ave | Geddes Ave | 0.000 | 0.093 | 0.093 | 0.186 |
| Lockridge Drive | King George Blvd | S Service Dr | 0.000 | 0.191 | 0.191 | 0.382 |
| Logan Court | Baylis Dr | Dead End | 0.000 | 0.077 | 0.077 | 0.154 |
| Longman Lane | Jackson Pl | Fairview St | 0.012 | 0.169 | 0.157 | 0.314 |
| Manitou Court | Englewood Ct | Dead End | 0.000 | 0.048 | 0.048 | 0.096 |
| Martin Place | Wells St | Cambridge Rd | 0.000 | 0.247 | 0.247 | 0.494 |
| Maynard Street | E William St | E Liberty St | 0.115 | 0.220 | 0.105 | 0.210 |
| Metroview Court | Champagne Dr | Dead End | 0.000 | 0.090 | 0.090 | 0.180 |
| Minerva Road | S Forest Ave | Olivia Ave | 0.000 | 0.085 | 0.085 | 0.170 |

STREET CRACK TREATMENTS - 2016

MINOR (LOCAL) STREETS: Pay Item "_ Overband Crack Fill, Lane" Applies

| Street Name | Limits | | Beginning Milepoint | Ending Milepoint | Length (miles) | |
|-------------------------|---|------------------|---------------------|------------------|----------------|---------------|
| | Beginning | Ending | | | Centerline | Lanes |
| N Ashley Street | W Kingsley St | Felch St | 0.839 | 0.940 | 0.101 | 0.202 |
| N Baylis Drive | Beaconsfield Dr | Stone School Rd | 0.216 | 0.363 | 0.147 | 0.294 |
| N Fourth Avenue | Beakes St | Depot St | 0.782 | 1.007 | 0.225 | 0.450 |
| Oakland Avenue | Tappan Ave | S Forest Ave | 0.331 | 0.484 | 0.153 | 0.306 |
| Onaway Place | Huntington Pl | Dead End | 0.000 | 0.049 | 0.049 | 0.098 |
| Onondaga Street | Dorset Rd | Geddes Ave | 0.000 | 0.188 | 0.188 | 0.376 |
| Overridge Drive | Glenwood Rd/Bedford Rd | Dead End | 0.292 | 0.827 | 0.535 | 1.070 |
| Oxford Road | Washtenaw Ave | S University Ave | 0.000 | 0.263 | 0.263 | 0.526 |
| Parkwood Avenue | Jeanne Ave | Pittsfield Blvd | 0.559 | 0.816 | 0.257 | 0.514 |
| Pine Brae Street | Earhart Rd | Earhart Rd | 0.000 | 0.332 | 0.332 | 0.664 |
| Pineridge Street | Dexter Ave | Dead End | 0.000 | 0.083 | 0.083 | 0.166 |
| Placid Way | Tuebingen Pkwy | Dead End | 0.333 | 0.333 | 0.199 | 0.398 |
| Placid Way Court | Placid Way | Dead End | 0.000 | 0.067 | 0.067 | 0.134 |
| Plainview Court | Hemlock Dr | Dead End | 0.000 | 0.048 | 0.048 | 0.096 |
| Rockland Court | Hemlock Dr | Dead End | 0.000 | 0.048 | 0.048 | 0.096 |
| Roxbury Road | Sheridan Dr | Hawthorne Rd | 0.000 | 0.199 | 0.199 | 0.398 |
| Roxbury/Sheridan Cutoff | Sheridan Dr | Roxbury Rd | 0.000 | 0.022 | 0.022 | 0.044 |
| Ruthven Pl | Hill St | Dead End | 0.000 | 0.059 | 0.059 | 0.118 |
| S First Street | W. Davis | W Mosley St | 0.000 | 0.180 | 0.180 | 0.360 |
| Saint Francis Drive | Nature Cove Ct | Winchell Dr | 0.134 | 0.217 | 0.083 | 0.166 |
| Sanford Place | Dunmore Rd | Winsted Blvd | 0.000 | 0.165 | 0.165 | 0.330 |
| Second Street | W Madison St | W Jefferson St | 0.088 | 0.226 | 0.138 | 0.276 |
| Shadford Road | Packard St | Brockman Blvd | 0.000 | 0.562 | 0.562 | 1.124 |
| Soule Boulevard | Eberwhite Elementary School Dwy | W Liberty St | 0.000 | 0.271 | 0.271 | 0.542 |
| Spring Street | W Summit St | Sunset Rd | 0.363 | 0.674 | 0.311 | 0.622 |
| Stratton Ct | Champagne Dr | Dead End | 0.000 | 0.038 | 0.038 | 0.076 |
| Tappan Avenue | E University Ave | Hill St | 0.000 | 0.191 | 0.191 | 0.382 |
| Tilsby Ct | Delaware Dr | Dead End | 0.000 | 0.077 | 0.077 | 0.154 |
| Trowbridge Ct (N) | Champagne Dr | Dead End | 0.000 | 0.030 | 0.030 | 0.060 |
| Trowbridge Ct (S) | Champagne Dr | Dead End | 0.000 | 0.058 | 0.058 | 0.116 |
| Virginia Avenue | Fair St | Jackson Ave | 0.152 | 0.392 | 0.240 | 0.480 |
| W Davis Avenue | Wilder Pl | S Main St | 0.280 | 0.427 | 0.147 | 0.294 |
| W Eden Ct | Champagne Dr | Dead End | 0.000 | 0.099 | 0.099 | 0.198 |
| W Keech Avenue | Edgewood Ave | S Main St | 0.000 | 0.225 | 0.225 | 0.450 |
| W Summit Street | At-grade crossing with Ann Arbor Railroad | N Main St | 0.473 | 0.560 | 0.087 | 0.174 |
| Ward Ct | Baylis Dr | Dead End | 0.000 | 0.031 | 0.031 | 0.062 |
| Warrington Drive | Newport Rd | Huron River Dr | 0.000 | 0.355 | 0.355 | 0.710 |
| Wildwood Avenue | Dexter Ave | Linwood Ave | 0.000 | 0.162 | 0.162 | 0.324 |
| Woodmanor Court | Packard St | Dead End | 0.000 | 0.125 | 0.125 | 0.250 |
| Woodside Road | Shadford Rd | Dead End | 0.000 | 0.247 | 0.247 | 0.494 |
| TOTAL | | | | | 14.654 | 29.308 |

STREET CRACK TREATMENTS - 2016

MAJOR STREETS: Pay Item" _HMA Crack Treatment, Lane" Applies

| Street Name | Limits | | Beginning Milepoint | Ending Milepoint | Length (miles) | |
|-------------------------|--|---|---------------------|------------------|----------------|---------------|
| | Beginning | Ending | | | Centerline | Lanes |
| Ann Arbor Saline Rd | W Eisenhower Pkwy/Brookfield Dr | S Main St | 2.730 | 3.427 | 0.697 | 3.485 |
| Beakes Street | N Main St/E Kingsley St | N Division St | 0.000 | 0.283 | 0.283 | 0.566 |
| Broadway Street | Swift St | Plymouth Rd | 0.537 | 0.685 | 0.148 | 0.740 |
| Boardwalk Drive | Victors Way | E Eisenhower Pkwy | 0.000 | 0.360 | 0.360 | 0.720 |
| Catherine St | Glen Ave | W Medical Center Dr | 0.416 | 0.433 | 0.017 | 0.034 |
| Commerce Blvd | W Stadium Blvd | Pennsylvania Ave | 0.000 | 0.254 | 0.254 | 0.508 |
| E Ann St | N Fifth Ave | N Division St | 0.310 | 0.422 | 0.112 | 0.224 |
| E Ann St | Glen Ave | Zina Pitcher Pl | 0.275 | 0.379 | 0.104 | 0.208 |
| E Eisenhower Pkwy | Boardwalk St. | S Industrial Hwy | 1.429 | 1.685 | 0.256 | 0.512 |
| E Liberty Street | S Main St | S Division St | 7.756 | 7.989 | 0.233 | 0.466 |
| E Park Pl | Henry St/E Stadium Blvd/S Industrial Hwy | Granger Ave | 0.000 | 0.188 | 0.188 | 0.376 |
| E Stadium Boulevard | Packard St | Washtenaw Ave | 3.186 | 4.174 | 0.988 | 4.940 |
| E University Ave | Willard St | S University Ave | 0.452 | 0.537 | 0.085 | 0.170 |
| E William St | S Main St | Thompson St | 0.317 | 0.595 | 0.229 | 0.458 |
| Fernwood St | Lorraine St | Packard St | 0.000 | 0.477 | 0.477 | 0.954 |
| S Fifth Avenue | E Liberty St | E Huron St | 0.538 | 0.665 | 0.127 | 0.254 |
| Fuller Road | Fuller Ct | S Huron Pkwy | 1.196 | 1.965 | 0.769 | 2.284 |
| Geddes Avenue | Highland Dr | Arlington Blvd | 0.839 | 1.382 | 0.531 | 1.062 |
| Geddes Road | S Huron Pkwy | City Limit | 1.965 | 2.977 | 1.012 | 2.024 |
| Glazier Way | S Huron Pkwy | Earhart Rd | 0.000 | 1.085 | 1.576 | 3.308 |
| Glen Avenue/Fuller Road | E Huron St | Bridge over MDOT Railroad | 0.000 | 0.338 | 0.338 | 1.352 |
| Green Road | Glazier Way | Plymouth Rd | 0.000 | 1.175 | 1.175 | 3.525 |
| Hill Street | S Main St | At-grade crossing with Ann Arbor Railroad | 0.000 | 0.148 | 0.148 | 0.296 |
| Hill Street | S Forest Ave | Washtenaw Ave | 0.857 | 1.118 | 0.261 | 0.522 |
| S Huron Parkway | Plymouth Rd | Nixon Rd | 3.805 | 4.071 | 0.238 | 0.684 |
| S Huron Parkway | Fuller Rd/Geddes Rd | Hubbard Rd | 2.004 | 3.296 | 1.292 | 2.584 |
| Maiden Lane | Broadway St | Maiden Lane Ct | 0.000 | 0.269 | 0.269 | 0.538 |
| N Division Street | E Huron St | Beakes St/Broadway St | 0.806 | 1.228 | 0.412 | 0.824 |
| N Maple Road (NB) | Dexter Ave | Miller Ave | 2.078 | 2.724 | 0.646 | 3.230 |
| N Seventh Street | Bath St | Miller Ave | 0.089 | 0.315 | 0.226 | 0.452 |
| N State Street | E Huron St | E Kingsley St | 6.836 | 7.076 | 0.235 | 0.470 |
| N University Ave | S State St | S Thayer St | 0.000 | 0.064 | 0.064 | 0.128 |
| Nixon Road | Plymouth Rd | Huron Pkwy | 0.000 | 0.216 | 0.179 | 0.481 |
| Northbrook Place | W Eisenhower Pkwy | W Oakbrook Dr | 0.000 | 0.132 | 0.132 | 0.264 |
| Oxford Road | S University Ave | Geddes Ave | 0.263 | 0.314 | 0.051 | 0.102 |
| Packard Street | S Fifth Ave | Hill St | 0.149 | 0.506 | 0.357 | 0.714 |
| Packard Street | Platt Rd | Gross Rd | 3.609 | 4.492 | 0.878 | 4.390 |
| Packard Street | Anderson Ave/Harpst St | Kimberly Rd | 1.786 | 2.748 | 0.962 | 3.191 |
| Plymouth Road | Nixon Rd | SB US-23 Ramp | 2.017 | 2.955 | 0.936 | 4.680 |
| S Main Street | Ann Arbor-Saline Rd | E William St | 0.000 | 1.454 | 1.454 | 6.235 |
| S Seventh Street | W Stadium Blvd | W Madison St | 1.048 | 1.732 | 0.684 | 1.368 |
| S State Street | E Eisenhower Pkwy | Oakbrook Dr | 4.270 | 4.678 | 0.408 | 2.040 |
| Thompson Street | Packard St | E Jefferson St | 0.000 | 0.415 | 0.319 | 0.638 |
| Victors Way | S State St | Boardwalk St | 0.000 | 0.224 | 0.224 | 0.448 |
| W Liberty Street | S Seventh St | At-grade crossing with Ann Arbor Railroad | 7.229 | 7.611 | 0.555 | 1.110 |
| W Oakbrook Drive | Ann Arbor-Saline Rd | S Main St | 0.000 | 0.666 | 0.666 | 1.332 |
| W Stadium Boulevard | S Maple Rd | Prescott Ave | 0.000 | 1.810 | 1.810 | 7.444 |
| TOTAL | | | | | 23.365 | 72.335 |