

AGENDA RESERVATION REQUEST

CITY OF FRANKLIN COMMON COUNCIL

Please type or print

Date Submitted:	5-14-14	Meeting Date:	5-19-14
Contact Information:			
Requested by:	Travis Underhill, City Engineer		
On Behalf of Organization or Individual:			
Travis Underhill, City Engineer			
Telephone:	736-3631		
Email address:	tunderhill@franklin.in.gov		
Mailing Address:	70 E. Monroe Street, Franklin, IN 46131		
Describe Request:			
2014 Paving Program for informational reasons. Project was advertised for bids recently.			
List Supporting Documentation Provided:			
2014 Paving Program			
Who will present the request?			
Name:	Travis Underhill	Telephone:	736-3631

The Franklin City Council meets on the 1st and 3rd Monday of each month at 6:30 p.m. in the Council Chambers of City Hall located at 70 E. Monroe Street. In order for an individual and/or agency to be considered for new business on the agenda, this reservation form and supporting documents must be received in the Mayor's office no later than 12:00 p.m. on the Wednesday before the meeting.

Contract Documents
for:

**2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing**

City of Franklin, Indiana

May 1, 2014



5925 Lakeside Blvd., Indianapolis, Indiana 46278 317-290-9549

2014 MAINTENANCE IMPROVEMENT PROGRAM

HMA Milling and Resurfacing

CITY OF FRANKLIN, INDIANA

TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Pages</u>
TC	Table of Contents	TC - 1
AB	Advertisement for Bids.....	AB - 1
IB	Instruction to Bidders	IB-1 – IB-3
P	Proposal	P-1 – P-4
CBPW	Contractor’s Bid for Public Works	CPBW-1 – CPBW-6
NA	Notice of Award	NA-1
PB	Performance, Maintenance, & Payment Bond	PB-1 – PB-2
CA	Contract Agreement.....	CA-1 – CA-2
NTP	Notice to Proceed	NTP-1
CPE	Contractor’s Progress Estimate.....	CPE-1
CO	Change Order.....	CO-1
IR	Insurance Requirements.....	IR-1

APPENDIX

Technical Specifications	TS-1 -TS-7
City Approved Wage Rate Tables.....	1-3
Work Summary Tables	Table 1-4

Year 2014 Maintenance Improvement Program, HMA Milling and Resurfacing Maps

City of Franklin Overall HMA Mill, Patch, and Overlay Map

General Location Maps..... .Maps 1-5

Roadway Typical & Detailed Locations with Notes

. Sheets 1-22

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
CITY OF FRANKLIN, INDIANA

ADVERTISEMENT FOR BIDS

The City of Franklin, Indiana will receive bids for the 2014 Maintenance Improvement Program – HMA Patching, Milling and Resurfacing, Franklin, Indiana, all in accordance with the Contract Documents, Construction Schedule and Specifications. Bids will be received until **4:00 PM, prevailing time, on June 2, 2014** at the Franklin City Hall, 70 E. Monroe St, Franklin, IN 46131 at which time all bids will be publicly opened and read aloud. Bids received after that time will be returned unopened.

The work shall consist of asphalt milling, placement of hot mix asphalt patching and hot mix asphalt resurfacing and all other work necessary for roadway restoration and as included in the Construction Schedule and Specifications for the 2014 Maintenance Improvement Program, HMA Patching, Milling, and Resurfacing contract documents.

Contract Documents are on file and may be examined at the Franklin City Hall, 70 E. Monroe St, Franklin, IN 46131.

The Proposal must be made on the forms provided in the Contract Documents. Each bid shall be accompanied by a cashier's or certified check, drawn on an acceptable bank, or an acceptable bidder's bond, in an amount not less than five percent (5%) of the total amount of the bid, payable to the City of Franklin, Indiana.

The bidder to whom a contract for work is awarded will be required to furnish a Maintenance and Payment Bond executed on the specified forms and acceptable to the District, in the amount of one hundred percent (100%) of the Contract.

The Bidder (proposer) must supply all the information required by the bid proposal form.

Liquidated damages for delay will be as provided in the Bid Proposal.

Work hours will be as provided in the Technical Specifications.

Partial payment will be made monthly based on an approved payment requisition.

The Contractor and all subcontractors will be required to comply with required Federal and State labor regulations including Equal Employment Opportunity, E-Verify, Non-segregated Facilities, and Affirmative Action requirements.

The City of Franklin, Indiana, reserves the right to reject any and all proposals or parts there-of and to waive all responsibility for irregularities in bids. Bids may be held by the City of Franklin, Indiana, for a period of not to exceed sixty (60) days from the date of the opening of the bids for the purpose of reviewing the bids and the investigation of the qualifications of bidders, prior to awarding of the Contract. It is anticipated, however, that the contract will be awarded on **June 16th, 2014**.

CITY OF FRANKLIN, INDIANA
Authorized By: CITY COUNCIL

Date: _____

2014 MAINTENANCE IMPROVEMENT PROGRAM

HMA Patching, Milling and Resurfacing

CITY OF FRANKLIN, INDIANA

INSTRUCTIONS TO BIDDERS

1. Each Proposal shall be legibly written or printed in ink, on the Proposal form provided in this bound copy of proposed Contract Documents. No alterations in Proposals, or in the printed forms therefore, by erasures, interpolations, or otherwise will be acceptable unless each such alteration is signed or initialed by the Bidder; if initialed, the City of Franklin, Indiana may require the Bidder to identify any alteration so initialed. No alteration in any Proposal, or in the Proposal form on which it is submitted, shall be made by the person after the Proposal has been submitted by the Bidder. Any and all addenda to the Contract Documents in which a Proposal is based, properly signed by the Bidder, shall accompany the Proposal when submitted.

Each Proposal submitted shall be enclosed in a sealed enveloped, addressed to the **City of Franklin**, identified on the outside with the words "**Proposal for the 2014 Maintenance Improvement Program, HMA Patching, Milling and Resurfacing, City of Franklin, Indiana**", and identifying the Bidder. Proposals shall be delivered to The City of Franklin on or before the time and date specified in the Request for Bids, at which time they will be publicly opened and read.

2. Each Proposal shall be accompanied by either a cashier's check, a certified check drawn on an acceptable bank, or an acceptable bid bond, in an amount of not less than five percent (5%) of the total amount of the bid, made payable without conditions to the "City of Franklin, Indiana", hereinafter referred to as the Owner, and the amount of the said Proposal Guarantee may be retained by and forfeited to the Owner as liquidated damages if the Proposal covered thereby is accepted and a contract based thereon is awarded and the Bidder should fail to enter into a Contract in the form prescribed, with legally responsible sureties, within fifteen (15) days after such award is made by the Owner.

The Proposal guarantee deposit of the unsuccessful Bidder will be returned if and when his Proposal is rejected. The Proposal guarantee deposit of the Bidder to whom a Contract is awarded will be returned provided, and when, said successful Bidder executes a Contract and files satisfactory bonds as hereinafter stipulated. The Proposal guarantee deposit of the second lowest responsive Bidder may be retained for a period not to exceed sixty (60) days pending the execution of the Contract and bonds by the successful Bidder.

3. As outlined in Part II, Section I, Contractor's Bid for Public Works, the Bidder shall furnish a statement of whether he is now or ever has been engaged in any work similar to that covered by the Specifications herein, the year in which such work was performed and the manner of its execution, and giving such other information as will tend to show the Bidder's ability to prosecute the required work. The Bidder may be required to furnish a financial statement showing funds available for the immediate execution of the work and also a statement of plant and equipment which he proposes to use and which is immediately available for execution of the work. Lists of plant and equipment shall be submitted in accordance with the following form:

MINIMUM PLANT TO BE USED ON THE WORK

<u>Name</u>	<u>Type</u>	<u>Capacity</u>	<u>Condition</u>
-------------	-------------	-----------------	------------------

4. Each Bidder shall carefully examine the Plans, Specifications, and other Contract Documents, shall visit the site and fully inform himself of all conditions affecting the work or the cost thereof, and shall be presumed to have done so and his Proposal shall be based upon his own conclusion from such examination. Each Bidder shall inform himself concerning all Federal, State and Local laws, ordinances or regulations which may in any manner affect his proposed operations of construction, or those engaged or employed on the work or the material or equipment. Should a Bidder find discrepancies in, or omissions from, the Plans, Specifications or other Contract Documents, he should at once notify the Engineer and obtain clarification or interpretation prior to submitting any Proposal. Any interpretation of the proposed Contract Documents will be made only by addendum duly issued and a copy of such addendum will be mailed or delivered to each person obtaining a set of such documents from the Engineer. The Owner will not be responsible for any other explanations or interpretations of the proposed Contract Documents.

5. Where various utilities or structures are shown on the plans, the location cannot be assumed exact. These utilities and/ or structures are plotted on the plans only for the Contractor's general information. It shall not be interpreted that the utilities or structures will be found or encountered as shown. Other utilities or structures may also be found and encountered which are not indicated on the plans, such as residential services, etc.

It is the Contractor's responsibility to locate all utilities or structures.

The contractor shall contact all local utility companies and inquire if they have any above ground or underground facilities or structures within the limits of construction. If facilities or structures are within the limits, the Contractor shall request the involved utility(ies) to furnish maps or drawings showing the exact location of such facilities and/ or structures. The Contractor shall also request utility(ies) to make field locations of such facilities and/or structures.

For the purposes of clarification, public utilities shall be defined as all water mains and services, storm drains, field tiles and any other utility which is publicly owned. All private utilities shall be defined as all gas mains and services, underground or overhead telephone and electrical lines, cable T.V. lines and all other privately owned utility lines.

All encountered public and private utilities or structures which are not in direct conflict may be relocated or temporarily removed by a method acceptable to the affected utility, at the complete expense of the Contractor. All encountered private utilities or structures which are in direct conflict or interference shall be relocated and the conflict or interference shall be relocated at the expense of the utility company. A direct conflict shall exist when an existing underground structure or utility line lies within the construction area or within 24" in depth of the construction area. Said relocation and replacement shall be done by the involved utility only, unless that utility approves in writing that the work may be done by the contractor, and in such event said approval shall be forwarded to the Engineer, signed by an authorized agent of the utility involved prior to the Contractor's commencement of work.

If the encountered public utilities and/or structures are in direct conflict, the Contractor shall make permanent changes (which are not indicated as changes on the plans or indicated in the specifications) in the location of any new pipes or other structures which are a part of the contract. The costs for making such changes (not shown on the plans or indicated in the specifications) over and above the cost of the work that is originally shown or specified, will be paid for as extra work in accordance with the INDOT Standard Specifications.

All encountered public utilities or structures which are not in direct conflict shall be relocated at the expense of the contractor.

6. Each Bidder to whom a contract for the work is awarded shall be required to furnish surety as follows:

Performance, Maintenance and Payment Bond. A contract bond to the Owner, in an amount equal to 100 percent (100%) of the contract price.

The bonds shall be executed in three (3) counterparts on the forms bound herein, signed by a surety company authorized to do business in the State of Indiana and acceptable as surety to the Owner.

7. No Bidder may submit more than one Proposal. Two Proposals under different names will not be received from one firm or association.
8. No Bidder may withdraw his Proposal for a period of sixty (60) days after the date and hour set for the opening herewith. A Bidder may withdraw his Proposal at any time prior to the expiration of the period during which Proposals may be submitted, by written request of the same person or persons who signed the Proposal.
9. The Owner reserves the right to accept the Proposal which, in its judgment, is the lowest and best response; to reject any or all Proposals; and to waive irregularities or informalities in any Proposal submitted. Proposal s received after the specified time of closing will be returned unopened.

10. None of the Instructions to Bidders, Proposal, Performance, Maintenance and Payment Bond, Contract Agreement, General Conditions, or Specifications shall be removed from the bound copy of the Contract Documents prior to filing the Proposal contained therein.
11. Each Bidder shall sign his Proposal, using his usual signature and giving his full business address. Proposals by partnerships shall be signed with the partnership named followed by the signature of one of the members of the partnership or by an authorized representative and designation of the person signing. Proposals by corporations shall be signed with the name of the corporation, followed by the signature and designation of the president, secretary, or other person authorized to bind it in the matter. The names of all persons signing shall also be typed or printed below the signature. A Proposal by a person who affixes to his signature the word "president", "secretary", "agent", or other designation, without disclosing his principal, may be held to be the Proposal of the individual signing. When requested by the Owner, satisfactory evidence of the authority of the officer signing on behalf of a corporation shall be furnished.
12. Attention of Bidders is particularly called to the requirement for ensuring that employees and applicants for employment are not discriminated against because of their race, color, religion, sex, or national origin.
- The Contractor and all subcontractors will be required to comply with required Federal and State labor regulations including Equal Employment Opportunity, Non-segregated Facilities, E-Verify, and Affirmative Action requirements as set forth in the Specifications.
13. Each Bidder shall include in his Proposal the following information:
- Firm:
Name:
Treasury Number:
Address:
City, State and Zip Code:
13. The Engineer is First Group Engineering, 5925 Lakeside Blvd., Indianapolis, Indiana 46278, Telephone Number (317) 290-9549, attention Shawn Strange. All questions are to be submitted in writing at least 1 business day prior to the bid opening. All questions shall be emailed to strange@firstgroupengineering.com or faxed to 317-290-9560.
14. All applicable laws, ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the contract throughout.
15. Contractor affirms under penalties for perjury that Contractor does not knowingly employ unauthorized aliens. The Contractor also acknowledges that the Contractor has or will enroll in and verify work eligibility status of all of Contractor's newly hired employees through the E-Verify program as defined by Indiana Code 22-5-1.7-3. The Contractor is not required to participate in the E-Verify program should it cease to exist or if the Contractor is self-employed and has no employees. The Contractor shall not knowingly employ or contract with an unauthorized alien and shall not retain an employee or contract with a person that the Contractor subsequently learns is an unauthorized alien. The Contractor will require all subcontractors who perform work under this contract to certify to the Contractor that the subcontractor does not knowingly employ or contract with an unauthorized alien and that the subcontractor has enrolled and is participating in the E-Verify program. The Contractor agrees to maintain this certification throughout the duration of the term of the contract with the subcontractor. If the Contractor fails to cure a breach of this paragraph for a period of more than thirty (30) days, the Owner may terminate this agreement.

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
CITY OF FRANKLIN, INDIANA

PROPOSAL

TO THE TOWN COUNCIL

1. The Undersigned Bidder declares that he has read the Specifications and other Contract Documents, has examined and understands the Plans, has examined the site of the work and has determined for himself the conditions affecting the work, and he proposes and agrees if this Proposal is accepted to provide, at his own expense, all labor, insurance, superintendence, machinery, plant, equipment, tools, apparatus, appliances and means of construction, and all materials and supplies, and to complete ready for its intended purpose, the entire work and all parts thereof described as included under the Contract herein bid upon, in the manner and items prescribed, including all work incidental thereto, according to the Plans, Project and Indiana Department of Transportation (INDOT) Specifications (2012 issue), Town and INDOT Standard Drawings and such instructions as the Engineer may give.
2. The Undersigned Bidder, in compliance with the Contract Documents dated May 1, 2014, hereby proposes to do the work called for in said Specifications and other Contract Documents and as shown on said Plans for the said work at the following rates and prices:

<div style="display: flex; justify-content: space-between; align-items: center;">  <h2 style="margin: 0;">Contract Bid Table</h2> </div>							
Pay Item #	Work Summary Table	Pay Item Description	Quantity	Unit		Unit Price	Pay Item Cost
1		Mobilization and Demobilization	1	LS	@		\$ -
2		Maintaining Traffic	1	LS	@		\$ -
3	1,2	HMA SURFACE Type C	2,606	Tons	@		\$ -
4	1	HMA INTERMEDIATE, TYPE C	258	LFT	@		\$ -
5	1	HMA BASE, TYPE C	255	LFT	@		\$ -
6	2	HMA Milling, 1.5"	29,804	SYS	@		\$ -
7	2	Pavement Fabric	29,804	SYS	@		\$ -
8	1	Compacted Aggregate #53, Base	593	Tons	@		\$ -
9	1	Crack Seal	4,732	LFT	@		\$ -
10		Restore Pavement Markings, Long Lines, Paint, Undistributed	1	LS	@		\$ -
11		Restore Pavement Markings, Dashed Lines, Paint, Undistributed	1	LS	@		\$ -
12		Restore Pavement Markings, Arrows, Paint, Undistributed	1	LS	@		\$ -
13		Restore Pavement Markings, Transvers Marking, Paint, Stop Line, 24", Undistributed	1	LS	@		\$ -
Total Base Bid =							\$ -

In the event that the city has the funds to do additional work, the city would like the contractor to supply unit prices and pay item costs for the following work:



Alternate #1 - Bid Table - Jefferson St.

Pay Item #	Work Summary Table	Pay Item Description	Quantity	Unit		Unit Price	Pay Item Cost
14		Mobilization and Demobilization	1	LS	@		\$ -
15		Maintaining Traffic	1	LS	@		\$ -
16	3A	HMA Milling, 1.5"	6,936	SYS	@		\$ -
17	3A	HMA Surface, Type C	573	Tons	@		\$ -
18		Restore Pavement Markings, Long Lines, Paint, Undistributed	1	LS	@		\$ -
19		Restore Pavement Markings, Dashed Lines, Paint, Undistributed	1	LS	@		\$ -
20		Restore Pavement Markings, Arrows, Paint, Undistributed	1	LS	@		\$ -
21		Restore Pavement Markings, Transvers Marking, Paint, Stop Line, 24", Undistributed	1	LS	@		\$ -
22		Restore Pavement Markings, RAILROAD, Undistributed	1	LS	@		\$ -
Total Alternate # 1	\$						

In the event that the city has the funds to do more additional work, the city would like the contractor to supply unit prices and pay item costs for the following work:



Alternate #2 - Bid Table – CR 525E

Pay Item #	Work Summary Table	Pay Item Description	Quantity	Unit		Unit Price	Pay Item Cost
23		Mobilization and Demobilization	1	LS	@		\$ -
24		Maintaining Traffic	1	LS	@		\$ -
25	3	HMA Milling, 1.5"	6,928	SYS	@		\$ -
26	3	HMA Surface, Type C	572	Tons	@		\$ -
27		Pavement Markings, Long Lines, Paint, Undistributed	1	LS	@		\$ -
Total Alternate # 2		\$					
TOTAL BASE Bid + ALT 1 + ALT 2 =							

All Prospective Bidders are required to submit unit prices and their extensions on all items included in this Proposal. In the event of an omitted extension or mistake in the extension total, the designated unit price amount shall govern to determine the corrected extension amount.

3. The Undersigned Bidder understands that the above quantities of work to be done are approximate only and are intended principally to serve as a guide in evaluating the bids.
4. The Undersigned agrees, upon written notice of the acceptance of this bid, that he will execute the Contract in accordance with the bid as accepted and give Performance, Maintenance and Payment Bond on the forms included herein within seven (7) days after the prescribed forms are presented for signature.
5. The Undersigned further agrees that, if awarded the Contract, he will commence work within SEVEN (7) calendar days after receipt of Notice to Proceed, and that he will complete the work within **Seventy-Five (75)** calendar days after the receipt of Notice to Proceed; and that he shall pay liquidated damages in the amount of Two Hundred Fifty Dollars (\$250.00) for each working day the work remains uncompleted after expiration of the Contract time.
6. As an evidence of good faith in submitting this Proposal, the Undersigned encloses either a cashier's check, a certified check drawn on an acceptable bank, or an acceptable Bid Bond in the amount of not less than five percent (5%) of the total amount of the bid, which in case he refuses or fails to accept an award and to enter into a Contract and file the required bonds within the prescribed time, shall be forfeited damages to the City of Franklin, Indiana, as liquidated damages.
7. The Undersigned hereby declares that the only parties interested in this Proposal are named herein, that this Proposal is made without collusion with any other person, firm or corporation, that no member of the Town Council, officer or agent of the City of Franklin, Indiana is directly or indirectly financially interested in this bid.
8. Addenda No. _____ was received and considered in the preparation of this bid.

SIGNATURE OF BIDDER:

If an Individual: _____, doing business as

If a Partnership: _____

By: _____, member of firm

If a Corporation: _____

By: _____

Title: _____

Business Address of Bidder: _____

BID OF

(Contractor)

(Address)

FOR
PUBLIC WORKS PROJECTS
OF

Filed _____, _____

Action taken _____

CONTRACTORS BID FOR PUBLIC WORK

PART 1

(To be completed for all bids)
(Please type or print)

Date: _____

1. Governmental Unit (Owner): City of Franklin

2. County: Johnson

3. Bidder (Firm): _____

Address: _____

City/State: _____

4. Telephone Number: _____

5. Agent of Bidder (if Applicable): _____

Pursuant to notices given, the undersigned offers to furnish labor and/or material necessary to complete the public works project of City of Franklin, Indiana

(Governmental Unit) in accordance with plans and specifications prepared by First Group Engineering, 5925 Lakeside Blvd, Indianapolis, IN 46278 and dated May 1, 2014 for the sum of

\$ _____

The undersigned further agrees to furnish a bond or certified check with this bid for an amount specified in the notice of the letting. If alternative bids apply, the undersigned submits a proposal for each in accordance with the notice. Any addendums attached will be specifically referenced at the applicable page.

If additional units of material included in the contract are needed, the cost of units must be the same as that shown in the original contract if accepted by the Governmental Unit. If the bid is to be awarded on a unit basis, the itemization of the units shall be shown on a separate attachment.

The Contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS

(If applicable)

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States. I.C. 5-16-8-2. I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel products on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

ACCEPTANCE

The above bid is accepted this _____ day of _____, _____, subject to the following conditions: _____

Contracting Authority Members:

_____	_____
_____	_____
_____	_____

PART II

(Complete sections I, II, III, and IV for all state and local public works projects as required by statutes if project is one hundred thousand dollars (\$100,000) or more. (IC 36-1-12-4)

Governmental Unit: City of Franklin, Indiana

Bidder (Firm): _____

Date: _____

These statements to be submitted under oath by each bidder with and as a part of his bid. Attach additional pages for each section as needed.

SECTION I EXPERIENCE QUESTIONNAIRE

1. What public works projects has your organization completed for the period of one (1) year prior to the date of the current bid?

Contract Amount	Class of Work	When Completed	Name and Address of Owner

2. What public works projects are now in process of construction by your organization?

Contract Amount	Class of Work	When to be Completed	Name and Address of Owner

3. Have you ever failed to complete any work awarded to you? _____ If so, where and why?

4. List references from private firms for which you have performed work.

SECTION II PLAN AND EQUIPMENT QUESTIONNAIRE

1. Explain your plan or layout for performing proposed work. (Examples could include a narrative of when you could begin work, completed the project, number of workers, etc. and any other information which you believe would enable the governmental unit to consider your bid.)
2. If you intend to sublet any portion of the work, state the name and address of each subcontractor, equipment to be used by the subcontractor, and whether you expect to require a bond. However, if you are unable to currently provide a listing, please understand a listing must be provided prior to contract approval.
3. What equipment do you have available to use for the proposed project? Any equipment to be used by subcontractors may also be required to be listed by the governmental unit.
4. Have you entered into contracts or received offers for all materials which substantiate the prices used in preparing your proposal? Otherwise, please explain the rationale used which would corroborate the prices listed.

SECTION III CONTRACTOR'S FINANCIAL STATEMENT

Attachment of bidder's financial statement is mandatory. Any bid submitted without said financial statement as required by statute shall thereby be rendered invalid. The financial statement provided hereunder to the governing body awarding the contract must be specific enough in detail so that said governing body can make a proper determination of the bidder's capability for completing the project if awarded.

SECTION IV OATH AND AFFIRMATION

I hereby affirm under the penalties of perjury that the facts and information contained in the foregoing bid for public works are true and correct to the best of my knowledge and belief.

Dated at _____ this _____ day of _____, _____

(Name of Organization)

By: _____

(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF: _____)

COUNTY OF _____)

_____ being duly sworn, deposes and says that he is

_____ of the above _____
(Title) (Name of Organization)

and that the answers to the questions in the foregoing questionnaires and all statements therein contained are true and correct.

Subscribed and sworn to before me this _____ day of _____, _____

(Notary Public)

My Commission Expires: _____

County of Residence: _____

NON - COLLUSION AFFIDAVIT

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain from bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

OATH AND AFFIRMATION

I affirm under the penalties of perjury that the foregoing facts and information are true and correct to the best of my knowledge and belief.

Dated at _____ this _____ day of _____, _____

(Name of Organization)

By: _____

(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____)
COUNTY OF _____)

_____ being duly sworn, deposes and says that he is
_____ of the above _____
(Title) (Name of Organization)

and that the statements contained in the foregoing bid, certification and affidavit are true and correct.

Subscribed and sworn to before me this _____ day of _____, _____

(Notary Public)

My Commission Expires: _____

County of Residence: _____

**2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
CITY OF FRANKLIN, INDIANA**

NOTICE OF AWARD

To:

Project Description: The work shall consist of, but not limited to, maintenance of traffic, cleaning of the project areas, placement of HMA Sealant such as Reclamite or approved substitute, and all other work necessary to provide for a complete project and as included in the Construction Schedule and Specifications for the 2014 Maintenance Improvement Program, HMA Patching, Milling and Resurfacing.

The Owner has considered the Proposal submitted by you for the above described Work in response to the Town's request and Instructions to Bidders.

It is the intent of the Owner to accept your proposal and enter into a contract for the items listed in the Proposal in the amount of _____ (\$ _____).

You are required by the Instructions to Bidders to execute the Contract Agreement and furnish the required Performance, Maintenance and Payment Bond within seven (7) calendar days from the date of this Notice to you.

If you fail to execute said Contract Agreement and to furnish said Bonds within fifteen (15) calendar days from the date of this Notice, said Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your Proposal as abandoned. The Owner will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the Owner.

Dated this _____ day of _____, 2014.

CITY OF FRANKLIN, INDIANA
OWNER

By: _____

Title: _____

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE OF AWARD is hereby acknowledged by _____

this _____ day of _____, 2014.

By: _____

Title: _____

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
CITY OF FRANKLIN, INDIANA

PERFORMANCE, MAINTENANCE AND PAYMENT BOND

STATE OF _____

COUNTY OF _____

KNOW ALL MEN BY THESE PRESENTS THAT WE, _____ "Principal", and _____, of _____, State of _____, hereinafter called the "Surety" are held and firmly bound unto the City of Franklin, Indiana, hereinafter called "Owner", and unto all persons, firms, and corporations who may furnish materials for, or perform labor upon the structure or improvements hereinafter referred to in the penal sum of _____ (\$ _____) in lawful money of the United States of America, to be paid in Johnson County, Indiana, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, forever firmly by these presents.

THE CONDITION OF THE ABOVE OBLIGATION, HOWEVER, IS SUCH THAT:

WHEREAS, the Principal enters into a certain agreement with the City of Franklin, Indiana, the Owner, dated the _____ day of _____, A.D. 2014, a copy of which is hereto attached and made a part hereof for the _____ project.

NOW, THEREFORE, if the said Principal shall well and truly perform and complete said project in strict accordance with said Agreement, Information for Bidders, Proposal Plans and Specifications, and related documents, shall pay as they become due all just claims for work or labor performed including the faithful performance of the prevailing hourly wage as set forth in this Contract and also materials furnished in connection with said Agreement, including all amounts due for materials, lubricants, oil, gasoline, seed, hay, food, coal and coke, repairs on machinery, groceries and food stuffs, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums, both compensation and all other kinds of insurance, on said work, and for all labor, performed in such work whether by subcontractor or otherwise, and shall defend, indemnify and save harmless said Owner against any and all liens, encumbrances, damages, claims, demands, expenses, costs, and charges of every kind, including patent infringement claims except as otherwise provided in said Specifications and other Contract Documents arising out of or in relation to the performance of said work and the provisions of said Agreement, including the general guaranty for the one (1) year following substantial completion of the work, then these presents shall be void; otherwise they shall remain in full force and effect. This obligation is made for the use of said Owner and also for the use and benefit of all persons who may perform any work or labor or furnish any material in the execution of said Agreement and may be sued on thereby in the name of the Owner. Any conditions legally required to be included on a payment bond on this contract are included herein by reference.

PROVIDED, FURTHER, that if any legal action be filed upon this bond, venue shall lie in Johnson County, State of Indiana, and that the said Surety, for value received hereby stipulated and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the Specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the Specifications.

PROVIDED FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder whose claim may be satisfied.

PROVIDED FURTHER, that the performance of the materials and completed work shall be guaranteed by the Contractor for a period of one year from the date of final acceptance. The warranty shall be guaranteed by submission of a one-year maintenance bond with a guarantee in a numeric amount equal to twenty percent of the final contract amount. This maintenance bond shall be submitted prior to release of final payment for this contract.

IN TESTIMONY WHEREOF, this instrument is executed in three (3) counterparts, each one of which shall be deemed an original, this _____ day of _____, 2014.

ATTEST:

Principal Secretary

(SEAL)

ATTEST:

Surety Secretary

Witness as to Surety

PRINCIPAL

By: _____

Title: _____

Address

SURETY

By: _____

Attorney-in-Fact

Address

NOTE: Date of bond must not be prior to date of Contract. If Contractor is partnership, all partners should execute bond.

IMPORTANT: Surety companies executing bond must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

CITY OF FRANKLIN, INDIANA

By: _____

(Office or Position of Signer)

2014 MAINTENANCE IMPROVEMENT PROGRAM

HMA Patching, Milling and Resurfacing

CITY OF FRANKLIN, INDIANA

CONTRACT AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____, 2014, by and between the **City of Franklin**, Party of the First Part, hereinafter referred to as the "Owner", and _____ Party of the Second Part, hereinafter referred to as the "Contractor" for the **2014 MAINTENANCE IMPROVEMENT PROGRAM, HMA PATCHING, MILLING AND RESURFACING.**

WITNESSETH:

ARTICLE 1. It is hereby mutually agreed that for and in consideration of the payments as provided for herein to the Contractor by the Owner, the said Contractor shall furnish all labor, equipment, and material and shall perform all work necessary to complete the improvements in a good and substantial manner, ready for use, and in strict accordance with this Contract, a copy of which is filed pursuant to law in the office of the Town Hall.

ARTICLE 2. It is hereby further agreed that in consideration of the faithful performance of the work by the Contractor, the Owner shall pay the Contractor the compensation due him by reason of said faithful performance of the work, at stated intervals and in the amount certified by the Engineer, in accordance with the provisions of this Contract.

ARTICLE 3. It is hereby further agreed that, at the completion of the work and its acceptance by the Owner, all sums due the Contractor by reason of his faithful performance of the work, taking into consideration additions to or deductions from the Contract price by reason of alterations or modifications of the original Contract or by reason of "Extra Work" authorized under this Contract, will be paid the Contractor by the Owner after said completion and acceptance.

ARTICLE 4. It is hereby further agreed that any reference herein to the "Contract" shall include all "Contract Documents" as the same are listed and described in GENERAL CONDITIONS, bound herein, and said "Contract Documents" are hereby made a part of this Agreement as fully as if set out at length herein, and that this Contract is limited to the items in the Proposal as signed by the "Contractor" and included in the "Contract Documents".

ARTICLE 5. The Contractor agrees to perform all of the work described in the Contract Documents for the unit prices and lump sums as submitted in the Bid, taking into consideration additions to or deductions from the Total Bid by reason of alterations or modifications of the original quantities or by reason of "Extra Work" authorized under this Agreement in accordance with the provisions of the Contract Documents.

ARTICLE 6. The Contractor agrees to warranty all of the work described in the Contract Documents for a period of one year after the date of final acceptance. The warranty shall be guaranteed by submission of a one-year maintenance bond a numeric amount equal to twenty percent of the final contract amount. This maintenance bond shall be submitted prior to release of final payment for this contract.

ARTICLE 7. It is hereby further agreed that a retainage equal to 5% of the Contractor's bid will be held by the Owner until the Owner approves all work performed for this Contract and releases the Contractor from this contract.

IN WITNESS WHEREOF, the Party of the First Part and the Party of the Second Part, respectively, have caused this Agreement to be duly executed in day and year first herein written in three (3) copies, all of which to all intents and purposes shall be considered as the original.

ARBITRATION PROVISION: THIS CONTRACT CONTAINS A BINDING PROVISION WHICH MAY BE ENFORCED BY THE PARTIES.

CONTRACTOR, PARTY OF THE SECOND PART

By: _____

(Office or Position of Signer)

**OWNER, PARTY OF THE FIRST PART
CITY OF FRANKLIN**

By: _____

(Office or Position of Signer)

(SEAL)

ATTEST:

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
CITY OF FRANKLIN, INDIANA

NOTICE TO PROCEED

To:

Date: _____, 2014

Project Description: The work shall consist of, but not limited to, cleaning of the project areas, placement of HMA Sealant such as Reclamite or approved substitute, and all other work necessary to provide for a complete project and as included in the Construction Schedule and Specifications for the 2014 Maintenance Improvement Program, HMA Patching, Milling and Resurfacing.

You are hereby notified to commence work in accordance with the Contract Agreement dated _____, 2014 and you are to complete the work within **75 (Seventy-Five)** calendar days thereafter.

City of Franklin

By:

Date:

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

this _____ day of _____, 2014.

By: _____

Title: _____

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
CITY OF FRANKLIN, INDIANA

CONTRACTOR'S PROGRESS ESTIMATE

Contractor:		Date:	
Address:		Estimate	
Owner:	City of Franklin, Indiana	Work Started:	
Project:	2014 Maintenance Improvement Program, HMA Patching, Milling and Resurfacing	Work to be Completed:	

We submit herewith Estimate Number ____ under contract for the above-named project. A detailed account of the work completed and a record of the materials on site or in an approved storage is attached hereto.

STATEMENT OF ACCOUNT

Original Contract Amount		\$
Contract Revisions:		
(Through change order)	\$
Amount of Contract Revisions:		\$
New Contract Amount		\$
Value of Work Performed to Date		\$
Value of Materials on Hand		\$
Total Value of Work and Materials		\$
Less Previous Due Amount		\$
Less Previous Retainage Amount		\$
Total of Previous Requests		\$
Amount of this Request		\$
Less Amount to Be Retained		\$
Amount of Previous Retainage to Be Released		\$
BALANCE DUE CONTRACTOR		\$

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
CITY OF FRANKLIN, INDIANA

CHANGE ORDER

Contractor:

Date:

Address:

Change Order No.

Owner: City of Franklin, Indiana

Project: 2014 Maintenance Improvement Program, HMA

Patching, Milling and Resurfacing.

We submit herewith Change Order Number (____) under contract for the above-named project.

Description of Change:

Bid Item No.	Description	Previous Quantity & Unit	Revised Quantity & Unit	Quantity Increase or (-) Decrease	Unit Price	Cost (+) Increase or (-) Decrease
TOTAL						

Increase by: \$ or Decrease by: \$ the Total Contract Amount.

Revise the Contract Amount as Follows:

Original Contract Amount:
Revisions through Change Order No. :
Previous Revised Contract Amount:
Revision by this Change Order No. :
Revised Contract Amount:

Receipt of this Change Order fully executed a Notice To Proceed with the work described herein and all requirements of the Contract Documents shall apply to the performance of the work.

This Change Order is for full and final settlement of all direct, indirect, impact costs and time extensions incurred at any time resulting from the performance of the changed work.

ENGINEER SUBMITTED:

THE SCHNEIDER CORPORATION

By: _____

Title: _____

Date: _____

ATTEST:

Date: _____

CONTRACTOR CONFIRMED:

By: _____

Title: _____

Date: _____

OWNER APPROVED:

CITY OF FRANKLIN, INDIANA

By: _____

Title: _____

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
CITY OF FRANKLIN, INDIANA

INSURANCE REQUIREMENTS

CONTRACTOR INDEMNIFICATION

The Work performed by the Contractor shall be at the risk of that Contractor exclusively. To the fullest extent permitted by law, Contractor shall indemnify, defend (at their sole expense) and hold harmless the City of Franklin and their employees ("Indemnified Parties"), from and against any and all claims for bodily injury, death or damage to property, demands, damages, actions, causes of action, suits, losses, judgments, obligations and any liabilities, costs and expenses (including but not limited to investigative and repair costs, attorneys' fees and costs, and consultants' fees and costs) ("Claims") which arise or are in any way connected with the Work performed, Materials furnished, or Services provided under this Agreement by the Contractor or its agents. These indemnity and defense obligations shall apply to any acts or omissions, negligent or willful misconduct of the Contractor, its employees or agents, whether active or passive. The Contractor's indemnification and defense obligations hereunder shall extend to Claims occurring after this Agreement is terminated as well as while it is in force, and shall continue until it is finally adjudicated.

INSURANCE REQUIREMENTS

Upon execution of this Agreement, and prior to the Contractor commencing any work or services, the Contractor shall provide the City of Franklin with a Certificate of insurance as evidence of Commercial General Liability insurance, Workers' Compensation and Automobile Liability for any employees, agents, or Subcontractors of the Contractor.

The Contractor's liability coverage shall use ISO form CG 00 01 10 01 (or equivalent coverage) and include the City of Franklin as an Additional Insured using ISO Form CG 20 10 11 85 (or equivalent coverage) or on the combination of ISO Forms CG 20 10 10 01 and CG 20 37 10 01 (or equivalent coverage). This Additional Insured coverage shall apply as primary & non-contributory insurance with respect to any other insurance afforded to the City of Franklin. Such insurance shall cover liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract). There shall be no endorsement or modification of the Commercial General Liability form arising from explosion, collapse, underground property damage or work performed by subcontractors.

The coverage limits shall not be less than the following:

Commercial General Liability Insurance:

\$1,000,000 Each Occurrence

\$2,000,000 General Aggregate

\$2,000,000 Products/Completed Operations Aggregate

\$1,000,000 Personal and Advertising Injury

Workers' Compensation and Employers' Liability Insurance:

\$500,000 Bodily Injury by Accident

\$500,000 Bodily Injury by Disease- Policy Limit

\$500,000 Bodily Injury by Disease - Each Employee

Automobile Liability Insurance:

\$1,000,000 Each Accident

Railroad Insurance

\$1,000,000 Each Accident

Commercial Umbrella Liability:

\$1,000,000 Each Occurrence

\$1,000,000 Aggregate

All coverage shall be placed with an insurance company duly admitted in the State of Indiana and have an AM Best rating of "A-" or better. Each Certificate of Insurance shall provide that the insurer must give the City of Franklin at least 30 days' prior written notice of cancellation and termination of the Contractor's coverage.

APPENDIX

Technical Specifications (TS 1-7)

City Approved Wage Rate Tables (1-3)

Work Summary Tables (Table 1-3)

YEAR 2014 MAINTENANCE IMPROVEMENT PROGRAM, HMA PATCHING, MILLING AND RESURFACING

City of Franklin Overall Mill, Patch, and Overlay Map

Location Maps (1-22)

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
City of Franklin, Indiana
TECHNICAL SPECIFICATIONS

TS – 1 GOVERNING DOCUMENTS

All applicable portions of the Indiana Department of Transportation Standard Specifications, 2014, Section 200 through 900, Standard Drawings, and Supplemental Specifications for Section 200 through 900 shall apply to these Contract Documents to the extent not in conflict with the terms herein. Where the word “Standard Specifications” along with the reference consisting of a number or number and letter are used, they shall be construed as referring to the INDOT Department of Transportation Standard Specifications, 2014, Standard Drawings, or Supplemental Specifications for Section 200 through 900, as applicable.

All applicable portions of the 2011 Indiana Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, shall apply to these contract documents to the extent not in conflict with the terms herein.

<http://www.in.gov/dot/div/contracts/design/mutcd/mutcd.html>

TS – 2 MATERIAL SUBMITTALS

HMA pavement designs for each mix to be utilized shall be submitted for approval to the Engineer at least seven (7) days prior to the anticipated installation date. Time for HMA mix design approval will not be considered for contract completion date adjustment as long as the Engineer submits his review comments within 4 days of receipt of said mix design.

Aggregate tickets from an INDOT approved source shall be furnished to the Town’s representative prior to placement of said material.

TS – 3 ENVIRONMENTAL REQUIREMENTS

Contractor warrants that it is a competent Contractor, and has thoroughly familiarized itself with the work that it is to perform, the manner in which it has determined to perform the work and the materials and equipment it has determined to use in performing the work. Contractor further warrants that it has familiarized itself with the environmental and health laws (federal and state) and regulations (federal and state and including, but not limited to, regulations issued or promulgated by the Environmental Protection Agency and the Indiana Department of Environmental Management) applicable to the work to be performed, the manner in which Contractor intends to perform it and the materials and equipment Contractor intends to use in performing the work.

To the extent that either the work which the Contractor is to perform, the manner in which Contractor determined to perform the work or the equipment or materials used (or to be used) by the Contractor in performing the work are the subject of laws (federal or state) or regulations (federal or state, and including, but not limited to, regulations promulgated or issued by the Environmental Protection Agency or the Indiana Department of Environmental Management) requiring compliance by the Contractor or its Subcontractors, Contractor agrees to administer and comply with the applicable laws and regulations.

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
City of Franklin, Indiana
TECHNICAL SPECIFICATIONS

COMPLIANCE AFFIDAVIT:

Each application for payment shall be accompanied by an affidavit, signed and dated by Contractor, substantially as follows:

This is to certify that in the performance of this Contract, neither the undersigned Contractor, nor (so far as the undersigned has knowledge) any of its Subcontractors has violated any environmental or health laws, regulations or ordinances. This is to further certify that in the performance of this Contract, neither the undersigned Contractor, nor (as far as the undersigned has knowledge) any of its Subcontractors has violated any environmental or health permits applicable to the work.

TS – 4 CORRECTION OF WORK

Correction of Work Before Substantial Completion: The Contractor shall promptly remove from the premises all work condemned by the Town as failing to conform to the Contract, whether incorporated or not, whether placed in use or not, and the Contractor shall promptly replace and re-execute its own work in accordance with the Contract and without expense to the Owner and shall bear the expense of making good all existing work destroyed or damaged by such removal or replacement.

Correction of Work After Substantial Completion: The Contractor shall remedy any defects due to faulty materials or workmanship and repair to Town satisfaction or pay for any damage to other work resulting therefrom, which shall appear within a period of one year from the date of Substantial Completion as defined in these General Conditions, and in accordance with the terms of any special guarantees provided in the Contract. The Town shall give notice of observed defects with reasonable promptness. All questions arising under this Section shall be decided by the Town notwithstanding final payment.

TS – 5 MAINTENANCE OF TRAFFIC

Maintenance of traffic shall be provided as required to comply with the INDOT standards and specifications. INDOT Standard Drawing Series E801 and INDOT specification section 801 shall be followed to guide and maintain traffic flow around the construction zone. Payment for Maintaining Traffic is a lump sum price for all items required to comply with INDOT standards and specifications, as stated above.

Traffic shall not be allowed to traverse the newly installed speed humps until compaction is complete and the HMA material has been allowed to cool enough to prevent deformation of the speed hump.

TS – 6 ROAD PAVING GEOTEXTILE

This item will consist of sweeping and cleaning the existing pavement, placement of Tack Coat, and the installation of TRUPAVE Engineered Paving Mat or approved equal, as manufactured by Owens Corning (or approved equal material) per manufacturer's specifications. Any approved equal shall

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
City of Franklin, Indiana
TECHNICAL SPECIFICATIONS

show proof that the material can be milled or recycled. This work shall be paid by the Square Yard (SYS) of Road Paving Geotextile placed. Tack Coat shall not be paid for separately, but shall be included in the unit price of the Road Paving Geotextile.

TS – 7 HMA MATERIAL

A copy of the INDOT Certified Plant Certificate for the plant(s) producing HMA mixtures for this project shall be submitted upon request.

The Contractor shall furnish all labor, material and equipment to prepare the existing road bed for paving. Each bidder shall be responsible for inspecting the project sites and verifying any measurements stated in the project specifications. Preparation shall be such that a smooth transition is obtained from newly paved areas to existing pavements. Payment for preparation will not be paid for directly, but shall be included in the price of the materials to be placed.

In the preparation of an existing asphalt or concrete pavement for paving, the Contractor shall remove dirt, gravel, sod and other debris from the existing pavement edges, followed by brooming of the pavement surface. Voids, holes or depressions deeper than one (1) inch shall be filled with an HMA mixture and compacted. Payment for HMA used to fill voids, holes or depressions will be per ton of the mixture placed.

INDOT Standard Specifications, Section 402, shall apply with the exceptions noted herein. The current version of the INDOT Specifications, Recurring Special Provisions, and Supplemental Specifications are applicable. The material shall be produced from an INDOT Certified HMA Plant, in accordance with Indiana Test Method ITM -583.

Coarse aggregate shall be approved materials from an INDOT Certified Aggregate Producer (CAP) source; however, the material shall **NOT** be or contain gravel.

Mixture Type: The mixture types shall be Type A, B, C, or D as shown on the Unit Bid Sheet. HMA mixtures shall be produced in accordance with 402.04.

Density: Density for all mixture types will be controlled by 402.15.

Mixture Type	Type A	Type B	Type C	Type D
Design ESAL	200,000	2,000,000	9,000,000	11,000,000
Surface	9.5 mm	9.5 mm	9.5 mm	9.5 mm
Surface – PG Binder	64-22	64-22	70-22	70-22
Intermediate	19.0 mm	19.0 mm	19.0 mm	19.0 mm
Intermediate – PG Binder	64-22	64-22	64-22	70-22
Base	25.0 mm	25.0 mm	25.0 mm	25.0 mm
Base – PG Binder	64-22	64-22	64-22	64-22

*Type C Mixtures may be substituted for Type B Mixtures.

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
City of Franklin, Indiana
TECHNICAL SPECIFICATIONS

Recycled Asphalt Pavement: (RAP): Recycled materials, up to 25%, may be used as a substitute for a portion of the new material required to produce HMA mixtures. When using greater than 15% RAP the PG Binders listed in the above table shall be changed as follows:

PG 64-22 to PG 64-28
PG 70-22 to PG 70-28

Acceptance of Mixtures: Acceptance shall be based on 402.09. The HMA Certification shall include the PG Binder Grade sent to the project. The attached materials certification form shall be submitted for each day mixture is delivered to the project.

Payment will be made to the Contractor for the accepted quantities of work at the contract bid price per unit. No payment for quantities in excess of those shown in the bidding documents will be made to the Contractor without prior written approval from the Engineer authorizing such additional quantities.

The Contractor shall clean up and properly dispose of any excess materials and debris resulting from the work. The cost of cleanup and disposal will not be paid for directly, but shall be included in the cost of the materials placed.

HMA surface material shall be used to construct the speed humps if speed humps are called out.

TS – 8 FULL DEPTH HMA PATCHING

This item will consist of areas within the existing pavement and shall include saw-cutting the existing pavement, removal of existing pavement section and unstable subgrade material and installation of HMA material from subgrade elevation to flush with the existing pavement. The new HMA surface shall match the existing surface grade. All patch area interfaces shall receive an application of Tack Coat. Pavement section shall be 17" thick for Arterial Streets and shall be Type C HMA:

- 1.5" of 9.5 mm Surface on
- 2.5" of 19.0 mm Intermediate on
- 3" of 25.0 mm HMA Base on
- 12" of Compacted Aggregate No. 53, Base

Pavement section shall be 13" thick for Collector Streets and shall be Type C HMA:

- 1.5" of 9.5mm HMA Surface on
- 2.5" 19.0mm HMA Intermediate on
- 3" 25.0mm HMA Base on
- 6" Compacted Aggregate, No. 53, Base

Pavement section shall be 10" thick for Local Streets and shall be Type C HMA:

- 1.5" 9.5mm HMA Surface on
- 3.5" 25.0 mm HMA Intermediate on
- 6" Compacted Aggregate, No. 53, Base

Payment will be by the ton for Full Depth HMA Patching. All associated work to complete the patch including saw-cutting the existing pavement, removal of existing pavement, tack coat, and removal of

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
City of Franklin, Indiana
TECHNICAL SPECIFICATIONS

any unstable subgrade material shall be included in the cost of Full Depth HMA Patching. The final grade of the patch shall ensure positive drainage off of the roadway surface.

TS – 9 HMA SURFACE

This item will consist of cleaning existing pavement surfaces; application of tack coat and installation of a HMA, type and thickness as specified elsewhere in the documents. The paver shall be operated (except in subdivisions) utilizing automatic slope and grade controls. The grade leveler device shall be connected to a “ski” assembly. Variances due to inconsistencies in existing pavement will be allowed for constructability. Areas to be overlaid with HMA Surface shall be as shown on the typical sections.

TS – 10 TACK COAT

This item will consist of cleaning existing pavement surfaces and application of tack coat per INDOT Standard Specifications, Section 406. Tack Coat will not be paid for directly, but shall be included in the cost of other items.

TS – 11 WORK HOURS

The approved work hours for this project are from 7 AM to 8 PM, Monday through Saturday, except on government holidays. Approval for work to take place outside of the approved work hours shall be obtained from the Owner at least 3 days in advance. Work completed outside of the approved work hours, without sufficient prior notification, may be deemed “failed material”, to be removed and replaced without additional payment due to the Contractor.

TS – 12 MILL & RESURFACING

Mill and Resurfacing shall include the milling of the asphalt surface to approximately **the depth shown in the work tables** and the replacement of this milled surface shall be a minimum 165 lbs/SYD (1.5” Depth) HMA Surface Type C or the thickness specified in the work tables. The cost of sweeping, restriping, and all other incidental tasks necessary to prepare the roadway for Mill and Resurfacing as well as return the roadway to its original functionality shall be included in the costs of Milling Asphalt, 1.5” and HMA Surface Type C.

Milling Asphalt, 1”, 1.5”, or 4” shall be paid for per SYD, HMA Surface Type C shall be paid for per Ton.

TS – 13 CRACK SEAL

Crack Seal shall be placed at all paving joints created by HMA patching operations and Mill and Fill operations. The contractor shall provide and place sealant in accordance with all applicable requirements of INDOT 2014 Standard Specification Section 408 “Sealing Cracks and Joints.”

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
City of Franklin, Indiana
TECHNICAL SPECIFICATIONS

The contractor shall submit to the City of Franklin the technical data and tested physical and performance properties of the products used and all certificates signed by manufacturers certifying that each material complies with requirements laid out in INDOT 2014 Standard Specification Section 900.

The following conditions must be met to ensure the product placed is accepted for payment unless otherwise approved by the City of Franklin:

1. Environmental Limitations: Do not apply crack sealant or filler materials if substrate is wet or excessively damp or if the following conditions are not met:
 - a. Cracks must be clean and free from debris.
 - b. The minimum surface temperature of the pavement shall be equal to or greater than 50° F at time of placement.
 - i. The Town should be notified immediately if these conditions are impossible to meet in order to recalculate the project completion date.
2. Sealant - General: Use Crafcro, Inc. Roadsaver 221 Sealant or approved equal.
3. Sealant Debonding Material – General: Use Crafcro, Inc. Detack, or approved equal.
4. Filler Material – General: Use INDOT AE-90 or approved equal.
5. Filler Debonding Material – General: Use INDOT No. 23 or No. 24 sand or approved equal. Application rate shall be approximately five pounds per square yard.
6. Surface Preparation - General: Immediately before placing crack sealing or filling materials, utilize compressed air to remove loose and deleterious material from surfaces. Ensure that pavement is clean, dry and ready to receive material.
7. Crack Sealant Filler Placing:
 - a. Place crack sealing or filling material in conformance to manufacturer's requirements for quality and safety.
 - b. Place crack seal or filler in cracks and joints so that void is completely filled. If settling occurs, place additional material so that material in void is reasonably level with or slightly below adjacent materials (a slight underfill is preferred).
 - c. Material SHALL be squeegeed and the residual band shall be no greater than three inches (3").
 - d. Where multiple cracks are in close proximity to one another, the area shall be flooded with crack seal or filler material, excess material removed by broom, squeegee, or other approved method and the area dusted with manufactured sand (limestone chips). The area is to be wheel-rolled with a light vehicle (pick-up truck is acceptable) and excess material removed by sweeping.
 - e. Place debonding agent "Detack" to hot-pour areas prior to exposing treated cracks to traffic. Place debonding agent in conformance to manufacturer's requirements for quality and safety.
 - f. Traffic shall not be allowed on the sealant until it has cured and the possibility of tracking does not exist. The ENGINEER shall determine when this condition exists.
 - g. Crack Sealant applied in a mobile set on all streets shall have a sealant debonding material added to prevent tracking.
8. Installation Tolerances - Smoothness: Cracks shall be filled so that the cured material is flush with or slightly below the adjacent pavement. Any excess material applied shall be removed or distributed (squeegee).

2014 MAINTENANCE IMPROVEMENT PROGRAM
HMA Patching, Milling and Resurfacing
City of Franklin, Indiana
TECHNICAL SPECIFICATIONS

9. Field Quality Control

- a. An Owner's representative may inspect the work. The work may be inspected for coverage, bonding of the cured material to cracks, adequate fill height and/or tracking of material.
- b. Remove and replace or install additional crack sealant where inspection results or measurements indicate that it does not comply with specified requirements.

TS – 14 RESTORE PAVEMENT MARKINGS

In all locations where milling, patching or overlaying destroy the existing pavement markings, the existing pavement markings shall be returned to their existing condition using paint pavement marking materials that match the color used for all long lines and message markings for all words or arrows removed.

END OF SECTION

Associated Builders and Contractors of Indiana

Johnson County – 2013

<u>Classifications</u>	<u>Classes</u>	<u>Wage</u>	<u>Fringe</u>	<u>Total</u>
Asbestos Abatement				
	-Removes and discards asbestos materials			
	Skilled	23.00	7.85	30.85
	Semi-skilled	N/A	N/A	N/A
	Unskilled	N/A	N/A	N/A
Brick/Block/Stone/Cement Mason				
	-Lays and sets building materials, brick and stone, and finishes surfaces			
	Skilled	22.20	6.00	28.20
	Semi-skilled	17.00	5.50	22.50
	Unskilled	13.50	4.50	18.00
Carpenter				
	-Constructs, erects, installs and repairs various woods and wallboards			
	Skilled	21.00	6.30	27.30
	Semi-skilled	16.50	5.50	22.00
	Unskilled	12.75	4.75	17.50
Interior Finish Technician				
	-Erects metal framing, installs drywall, seals and plasters			
	Skilled	19.50	5.75	25.25
	Semi-skilled	12.50	4.00	16.50
	Unskilled	10.00	3.00	13.00
Electrician				
	-Plans, installs, and repairs wiring, fixtures, lines and instrumentation controls			
	Skilled	22.40	7.00	29.40
	Semi-skilled	16.00	6.00	22.00
	Unskilled	12.15	5.00	17.15
Sound and Communication				
	-Installs data hardwiring			
	Skilled	19.45	6.25	25.70
	Semi-skilled	13.00	5.00	18.00
	Unskilled	10.50	4.00	14.50
Glazier				
	-Installs glass in windows or on surfaces			
	Skilled	21.00	6.00	27.00
	Semi-skilled	13.50	4.50	18.00
	Unskilled	11.00	3.50	14.50
Mechanical Insulator				
	-Covers, seals, fits, measures, cuts, and attaches insulating materials			
	Skilled	23.10	6.44	29.54
	Semi-skilled	16.10	5.45	21.55
	Unskilled	11.80	4.34	16.14

Johnson County – 2013 (Continued) Associated Builders and Contractors of Indiana

<u>Classifications</u>	<u>Classes</u>	<u>Wage</u>	<u>Fringe</u>	<u>Total</u>
Iron Worker				
	-Raises, places, and unites girders and columns of structural steel			
	Skilled	21.60	6.60	28.20
	Semi-skilled	16.10	6.00	22.10
	Unskilled	12.50	5.00	17.50
Metal Building Mechanic				
	-Assembles prefabricated metal buildings			
	Skilled	20.80	6.50	27.30
	Semi-skilled	15.25	5.70	20.95
	Unskilled	11.80	4.50	16.30
Millwright				
	-Installs machinery and equipment			
	Skilled	22.30	6.10	28.40
	Semi-skilled	14.00	4.75	18.75
	Unskilled	9.50	4.00	13.50
Painter				
	-Applies various liquid coverings to surfaces			
	Skilled	20.35	5.60	25.95
	Semi-skilled	13.00	4.00	17.00
	Unskilled	9.50	3.00	12.50
Rofer				
	-Covers roof with roofing materials			
	Skilled	21.67	6.27	27.94
	Semi-skilled	14.67	5.27	19.94
	Unskilled	9.67	3.27	12.94
Sprinkler Fitter				
	-Installs and repairs fire protection systems			
	Skilled	22.80	7.00	29.80
	Semi-skilled	15.00	5.50	20.50
	Unskilled	11.00	4.50	15.50
Floor Coverer/Setter				
	-Sets tile and terrazzo, applies pigment and marble, and lays carpet			
	Skilled	19.44	5.36	24.80
	Semi-skilled	12.80	4.50	17.30
	Unskilled	10.50	3.50	14.00
Truck Driver				
	-CDL-licensed to transport equipment, liquid, packaged or granular dirt and moves personnel			
	Skilled	17.75	5.20	22.95
	Semi-skilled	N/A	N/A	N/A
	Unskilled	N/A	N/A	N/A

Johnson County – 2013 (Continued) Associated Builders and Contractors of Indiana

<u>Classifications</u>	<u>Classes</u>	<u>Wage</u>	<u>Fringe</u>	<u>Total</u>
Operating Engineer				
-Operates all types of power construction and heavy equipment				
	Skilled	22.00	7.00	29.00
* Not a practice in the industry to put unskilled	Semi-skilled	15.50	6.00	21.50
workers on pieces of equipment*	Unskilled	N/A	N/A	N/A
Mechanical Technician (HVAC, Sheet Metal)				
-Fabricates, assembles, installs, and repairs sheet metal products and HVAC equipment				
	Skilled	22.50	6.50	29.00
	Semi-skilled	14.20	6.00	20.20
	Unskilled	12.20	5.00	17.20
Pipe Worker (Plumber, Pipefitter)				
-Fabricates, assembles, installs and maintains piping and piping systems, fixtures and equipment for processing systems and drainage systems				
	Skilled	25.00	8.00	33.00
	Semi-skilled	16.00	7.00	23.00
	Unskilled	13.00	5.00	18.00
Elevator Constructor				
-Installs and repairs elevator equipment				
	Skilled	26.00	8.25	34.25
	Semi-skilled	18.00	7.00	25.00
	Unskilled	13.00	5.25	18.25
General Labor				
-Laborers and helpers, in general				
	Skilled	17.00	5.50	22.50
	Semi-skilled	11.00	4.50	15.50
	Unskilled	9.00	2.50	11.50

Project Name: City of Franklin: Construction Projects

Common Wage Committee:

Dated this day: Thursday, August 15, 2013

Representing Associated Builders
and Contractors of Indiana

Awarding Agency (Industry Rep)

Indiana AFL-CIO

Awarding Agency (Taxpayer)

Commissioners-County (Taxpayer)

PATCHING TABLE

OBJECTID	Road Classification	Name	Location	WIDTH (FT)	Length (FT)	Area (SYS)	HMA			Compacted Agg, No. 53, Base (TON)	Crack Seal Length (FT)	Note
							HMA SURFACE Type C (TON)	INTERMEDIATE TYPE C (TON)	HMA BASE TYPE C (TON)			
7758	Collector	500E/JIM BLACK RD	100' S OF MCCLAIN DR	6	20	13	1	2	2	4	52	
7779	Collector	500E/JIM BLACK RD	610' N. OF SR 46	4	60	27	2	4	4	9	128	
7360	Collector	ADAMS ST	70' E. OF BRECKENRIDGE	10	15	17	1	2	3	6	50	
7369	Collector	ADAMS ST	120' E OF BRECKENRIDGE	10	20	22	2	3	4	7	60	
7605	Collector	ADAMS ST	S EDGE OF DUANE	12	10	13	1	2	2	4	44	
7605	Collector	ADAMS ST	45' W OF YANDES	10	66	73	6	10	12	24	152	
7392	Collector	BRANIGIN CREEK BLVD	380' S BRANIGAN CR CT	10	20	22	2	3	4	7	60	
7392	Collector	BRANIGIN CREEK BLVD	530' S OF BRANIGAN CR CT	10	30	33	3	5	6	11	80	
7392	Collector	BRANIGIN CREEK BLVD	260' N. OF FIELD CT	12	20	27	2	4	4	9	64	
7392	Collector	BRANIGIN CREEK BLVD	165' N. OF FIELD CT	10	35	39	3	5	6	13	90	
7392	Collector	BRANIGIN CREEK BLVD	80' N. OF FIELD CT	10	15	17	1	2	3	6	50	
7392	Collector	BRANIGIN CREEK BLVD	30' N. OF FIELD CT	10	20	22	2	3	4	7	60	
6778	Collector	BRECKENRIDGE ST	S. EDGE OF KING ST	4	18	8	1	1	1	3	44	
6778	Collector	BRECKENRIDGE ST	45' S. OF KING ST	5	12	7	1	1	1	2	34	
6778	Collector	BRECKENRIDGE ST	180' S OF KING ST	18	45	90	7	12	15	30	126	
7092	Collector	CINCINNATI ST	220' W. OF DUANE	4	24	11	1	1	2	4	56	
7302	Collector	CINCINNATI ST	145' W. OF DUANE	10	50	56	5	8	9	19	120	
	Collector	CINCINNATI ST	70' W. OF DUANE	4	75	33	3	5	6	11	158	
	Collector	CINCINNATI ST	76' E OF DUANE	4	60	27	2	4	4	9	128	
6616	Local	COTTONWOOD DR	35' W OF KNOLLWOOD AVE	5	20	11	1	2	0	4	50	
6564	Collector	DUANE ST	AT OHIO ST	12	10	13	1	2	2	4	44	
6564	Collector	DUANE ST	AT S. EDGE OF OHIO ST	6	35	23	2	3	4	8	82	
6564	Collector	DUANE ST	85' S. OF OHIO ST	12	50	67	6	9	11	22	124	
6928	Collector	INTERNATIONAL DR	170' S OF EARLYWOOD	10	24	27	2	4	4	9	68	
7831	Collector	INTERNATIONAL DR	720' S OF EARLYWOOD	6	10	7	1	1	1	2	32	
	Collector	INTERNATIONAL DR	780' S OF EARLYWOOD	6	75	50	4	7	8	17	162	
	Collector	INTERNATIONAL DR	1000' S OF EARLYWOOD	6	200	133	11	18	22	44	412	
	Collector	INTERNATIONAL DR	1500' E. US 31	10	50	56	5	8	9	19	120	
	Collector	INTERNATIONAL DR	1080' E OF US 31	6	20	13	1	2	2	4	52	
	Collector	INTERNATIONAL DR	45' E OF US 31	5	15	8	1	1	1	3	40	
7289	Local	MADISON ST	E. EDGE OF YANDES	10	18	20	2	4	0	7	56	
	Local	MADISON ST	166' E OF YANDES	10	12	13	1	3	0	4	44	
7665	Collector	MARIA AVE	N OF MARIA ON KNOLLWOOD	12	22	29	2	4	5	10	68	
	Collector	MARIA AVE	S OF MARIA ON KNOLLWOOD	12	15	20	2	3	3	7	54	
	Collector	MARIA AVE	20' E OF KNOLLWOOD	7	20	16	1	2	3	5	54	
	Collector	MARIA AVE	100' E OF KNOLLWOOD	10	22	24	2	3	4	8	64	
	Collector	MARIA AVE	125' E OF KNOLLWOOD	13	25	36	3	5	6	12	76	
6287	Collector	MEADOW GLEN BLVD	40' S OF SIMON RD	4	35	16	1	2	3	5	78	
6599	Collector	MEADOW GLEN BLVD	80' S OF SIMON RD	6	30	20	2	3	3	7	72	
6601	Collector	MEADOW GLEN BLVD	180' S SIMON RD	12	12	16	1	2	3	5	48	
	Collector	MEADOW GLEN BLVD	430' S OF SIMON RD	15	45	75	6	10	12	25	120	
	Collector	MEADOW GLEN BLVD	40' S OF MEADOWVIEW CT	12	30	40	3	6	7	13	84	
7852	Local	MEADOWVIEW CT	20' E OF MEADOWGLEN BLVD	20	25	56	5	11	0	19	90	
7655	Local	NINEVEH RD	200' S. OF SOUTH ST	5	10	6	0	1	0	2	30	

PATCHING TABLE

OBJECTID	Road Classification	Name	Location	WIDTH		Area (SYS)	HMA			Compacted Agg,		Crack Seal Length (FT)	Note
				(FT)	Length (FT)		TYPE C (TON)	INTERMEDIATE TYPE C (TON)	HMA BASE TYPE C (TON)	No. 53, Base (TON)			
7655	Local	NINEVEH RD	240' S. OF SOUTH ST	10	15	17	1	3	0	6	50		
7655	Local	NINEVEH RD	450' S. OF SOUTH ST	12	20	27	2	5	0	9	64		
6714	Collector	NORTH SHORE BLVD	150' E OF FRANKLIN LAKES	12	20	27	2	4	4	9	64		
6851	Collector	NORTH SHORE BLVD	50' E OF SHORE VIEW	10	18	20	2	3	3	7	56		
7371	Collector	NORTH SHORE BLVD	100' S OF PIN OAK	10	10	11	1	2	2	4	40		
7855	Collector	NORTH SHORE BLVD	125' S. OF PIN OAK	10	20	22	2	3	4	7	60		
	Collector	NORTH SHORE BLVD	40' S. OF ORION	10	30	33	3	5	6	11	80		
	Collector	NORTH SHORE BLVD	90' S. OF ORION	10	60	67	6	9	11	22	140		
7499	Local	WOLFF CT	80' E OF JASON AVE	10	25	28	2	5	0	9	70		
	Local	WOLFF CT	180' E OF JASON AVE	10	20	22	2	4	0	7	60		
	Local	WOLFF CT	220' E OF JASON AVE	8	11	10	1	2	0	3	38		
	Local	WOLFF CT	265' E OF JASON AVE	15	15	25	2	5	0	8	60		
	Collector	COMMONS WAY	65' W. OF GALAHAD CIR	5	10	6	0	1	1	2	30		
	Collector	GALAHAD CIR	90' N. OF WRIGHT CT	10	26	29	2	4	5	10	72		
	Collector	GALAHAD CIR	30' N. OF WRIGHT CT	6	10	7	1	1	1	2	32		
	Collector	GALAHAD CIR	45' N. OF COMMONS WAY	5	10	6	0	1	1	2	30		
	Collector	GALAHAD CIR	310' S. OF COMMONS WAY	33	20	73	6	10	12	24	106		
TOTALS					492	1,779	147	258	255	593	4,732		
WORK SUMMARY TABLE 1 : PATCHING LOCATIONS													
NOTE : PATCHING LOCATIONS ARE APPROXIMATE AND HAVE ALREADY BEEN MARKED IN THE FIELD. EXCAVATION/PAVEMENT REMOVAL SHALL BE INCLUDED IN THE COST OF HMA.													

MILL & OVERLAY TABLE

OBJECTID	Road Classification	Name	Location	Width (FT)	Length (FT)	Paving Geotextile Area (SYS)	Milling, 1.5" Area (SYS)	HMA Surface Type C (TON)	NOTE
7758	Collector	500E/JIM BLACK RD	From SR 44 to Pt 700' N.	34	705	2663	2663	220	
7779	Collector	500E/JIM BLACK RD	From 50' N. of McCain Dr to pt. 450' S	24	500	1333	1333	110	
7605	Collector	ADAMS ST	From Breckenridge to Pt. 246' E.	22	234	572	572	47	
7392	Collector	BRANIGIN CREEK BLVD	From 400' S. of Branigan Cr Ct. to Fielding Ct	24	600	1600	1600	132	
6778	Collector	BRECKENRIDGE ST	From Madison to King	19	352	743	743	61	
7092	Collector	CINCINNATI ST	From 150' E. of Johnson Ave to Yandes to 180' E. of Duane St	20	636	1413	1413	117	
6616	Collector	COTTONWOOD DR	From 125' E. of Redbud Ct. to Knollwood Ave	24	101	269	269	22	
6564	Collector	DUANE ST	From Ohio St to jKentucky St	24	362	965	965	80	Includes Ohio St Int.
6928	Collector	INTERNATIONAL DR	From US 31 to Pt. 2595' N and E	24	2595	6920	6920	571	
6618	Collector	KING ST	From Main to Water Street	15	22	37	37	3	Brick Underneath
7289	Collector	MADISON ST	From Yandes to Hurricane	24	320	853	853	70	
7665	Collector	MARIA AVE	From Knollwood Ave to Pt. 137' E	22	229	560	560	46	Includes Knollwood Int.
6287	Collector	MEADOW GLEN BLVD	From Simon Road to Pt. 744' S.	24	744	1984	1984	164	
7852	Local	MEADOWVIEW CT	From Meadow Glen Blvd. to Pt. 100 Ft E. of CL Meadow Glen	24	86	229	229	19	
7655	Collector	NINEVEH RD	From 140' S. of South St to Pt 453' S	20	453	1007	1007	83	
6714	Collector	NORTH SHORE BLVD	From Franklin Lakes Blvd to 100' E. of Shore View Dr	29	592	1908	1908	157	
6851	Collector	NORTH SHORE BLVD	From 135' S. of Pin Oak Ct to 260' N. of Stardust Ct	32	450	1600	1600	132	
7423	Collector	OHIO ST	From Hurricane to Young	24	301	803	803	66	
7499	Local	WOLFF CT	From Jason to Cul De Sac	20	238	1145	1145	94	
	Collector	COMMONS WAY	From 80' E. of Westview Drive to Galahad Cir	24	200	533	533	44	
	Collector	GALAHAD CIR	From Cul De Sac to Paving Seam 728' N (170' N. of Wright Cir)	26	710	2667	2667	220	
TOTALS					10,430	29,804	29,804	2,459	
WORK SUMMARY TABLE 2 - MILL AND OVERLAY						0	0	0	
NOTE: All lengths are measured along the centerline of the street.						0	0	0	

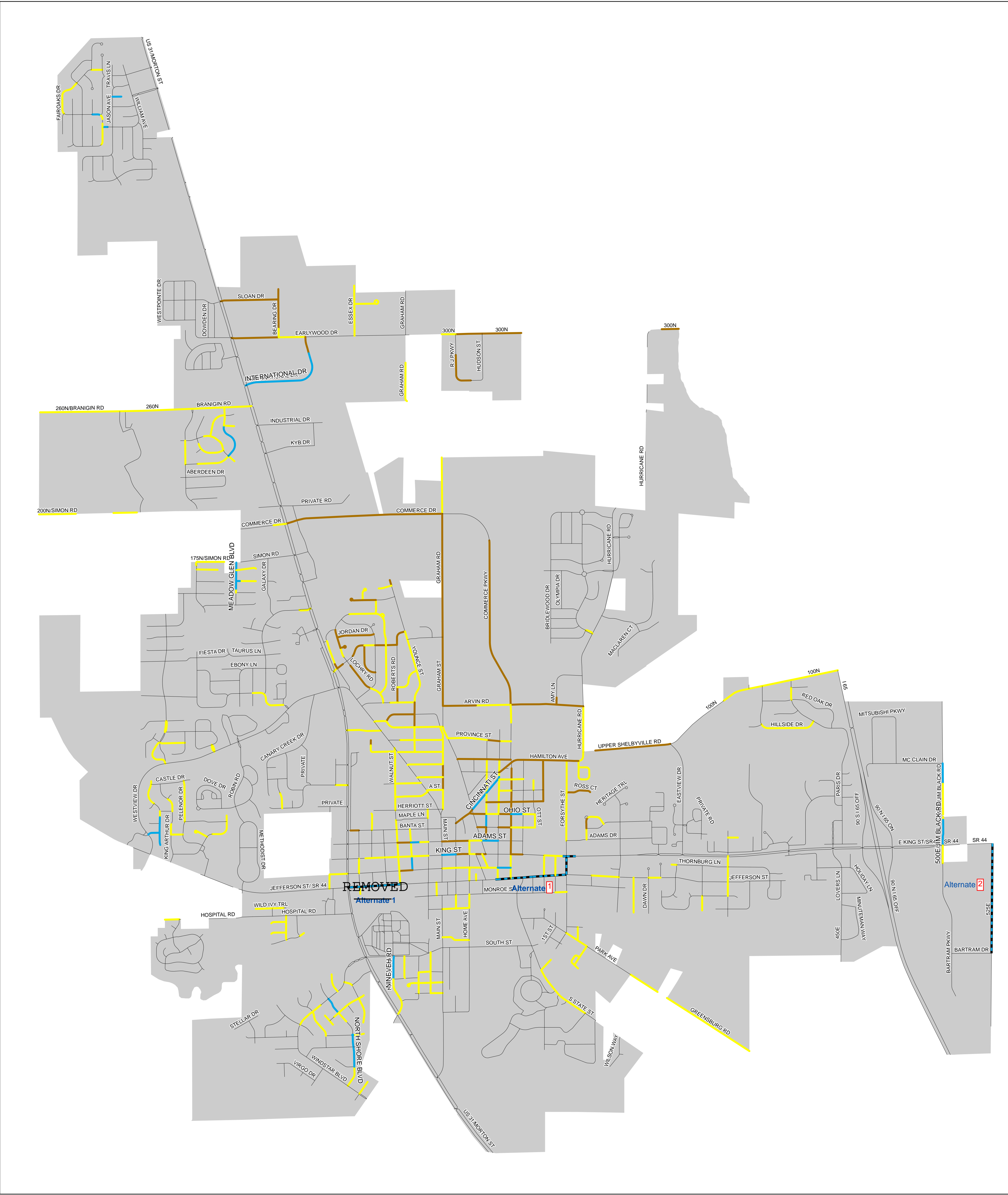


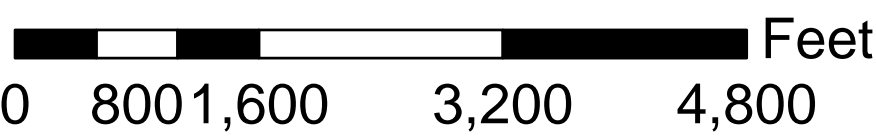

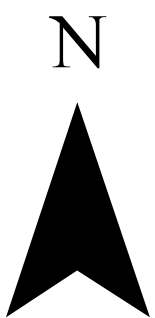
ALTERNATE 1 - MATERIALS TABLE JEFFERSON ST

OBJECTID	Name	WIDTH	Length	Area (SFT)	Milling, 1.5" Area (SYS)	HMA Surface Type C (TON)	NOTE
6893	JEFFERSON ST/ SR 44 - EAST SECTION 1	28	222	6216	691	57	
7005	JEFFERSON ST/ SR 44 - EAST SECTION 2	26	134	3484	387	32	
7238	JEFFERSON ST/ SR 44 - EAST SECTION 3	24	1237	29688	3,298.67	273	FROM BRANIGIN TO FORSYTHE
7219	JEFFERSON ST/ SR 44 - EAST SECTION 3	24	487	11688	1,298.67	108	FROM JEFFERSON TO KING
7395	JEFFERSON ST/ SR 44 - EAST SECTION 3	33	207	6831	759.00	63	FROM FORSYTHE TO DRIVE
7858	KING ST	33	137	4521	502.33	42	FROM DRIVE TO FORSYTHE
TOTAL				62,428	6,936	573	
WORK SUMMARY TABLE 3A - ALTERNATE BID ITEMS #1					\$	-	

ALTERNATE 2 - MATERIALS TABLE CR 525E



OBJECTID	Name	WIDTH	Length	Area (SFT)	Milling, 1.5" Area (SYS)	HMA Surface Type C (TON)	NOTE
6680	525E	22	2834	62348	6,928	572	
TOTAL				62,348	6,928	572	
WORK SUMMARY TABLE 3B- ALTERNATE BID ITEMS #1							





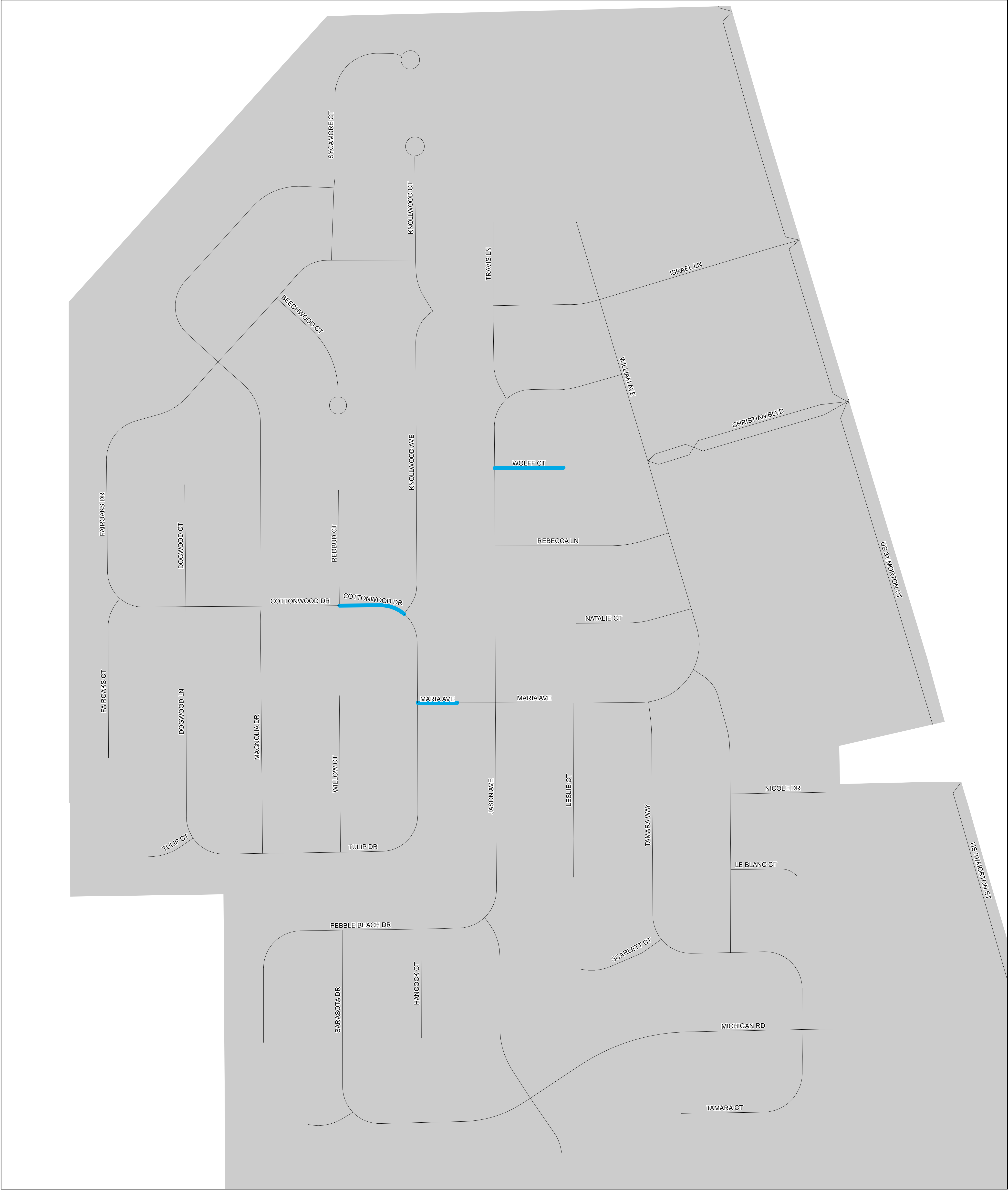
City of Franklin

- roads
- 2014 MIP**
- Crack Seal
- HMA Seal
- Mill, Patch, and Overlay
- Mill, Patch and Overlay Alternates
- Franklin_Boundary



7321 Shadeland Station, Indianapolis IN 46256
(p) 317.841.4799 (f) 317.841.4790
shrewsusa.com

Date: 4/3/2014



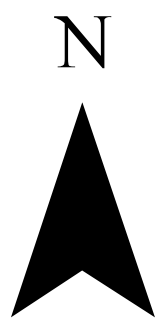
0 105 210 420 630 Feet

City of Franklin Map 1: NW area

- roads
- 2014 MIP**
- Mill, Patch, and Overlay
- Mill, Patch and Overlay Alternates
- Franklin_Boundary



Date: 4/3/2014



0 205 410 820 1,230 Feet

City of Franklin

Map 2: NC area

- roads
- 2014 MIP**
- Mill, Patch, and Overlay
- Mill, Patch and Overlay Alternates
- Franklin_Boundary



Date: 4/3/2014



City of Franklin

Map 3: SW area

roads

2014 MIP

Mill, Patch, and Overlay

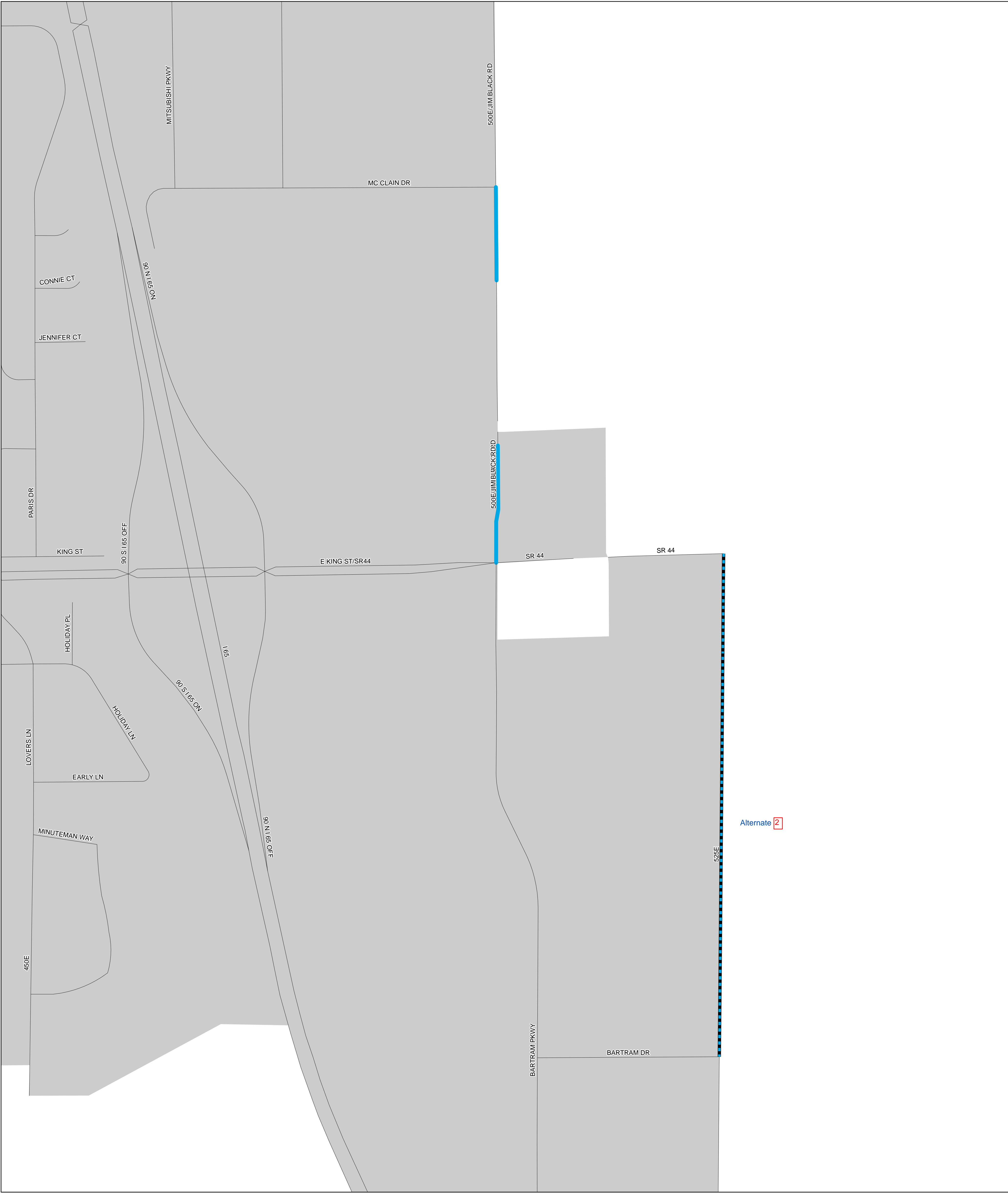
Mill, Patch and Overlay Alternates

Franklin_Boundary

7321 Shadeland Station, Indianapolis IN 46256
(p) 317.841.4799 (f) 317.841.4790
shrewsusa.com

Date: 4/3/2014

Document Path: S:\Project Files\2014\14-0034\Exhibits\2014 MIP working map.mxd



Alternate **2**



0 185 370 740 1,110 Feet

City of Franklin

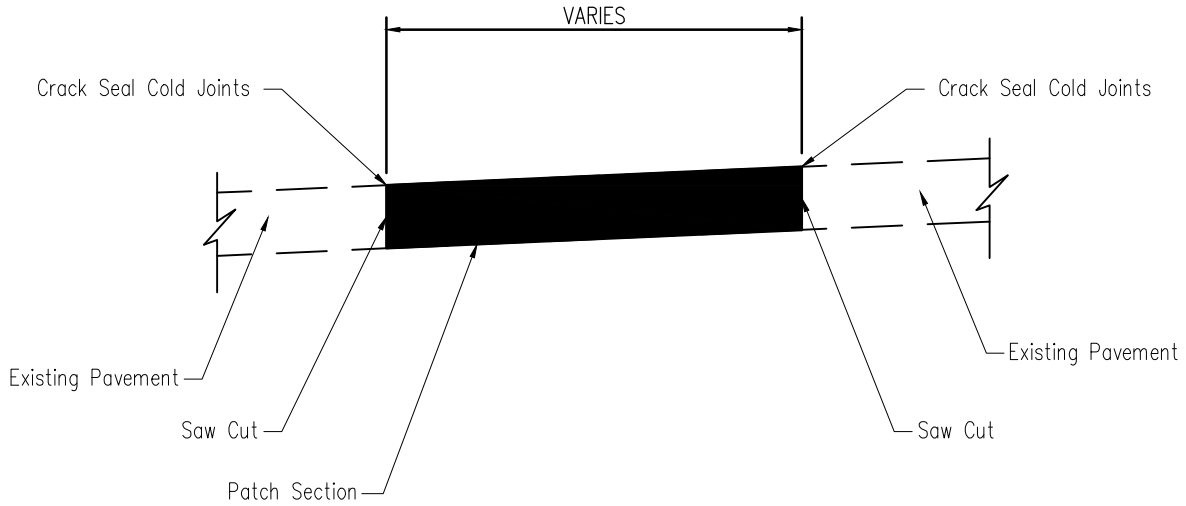
Map 5: E area

- roads
- 2014 MIP**
- Mill, Patch, and Overlay
- Mill, Patch and Overlay Alternates
- Franklin_Boundary



Date: 4/3/2014

PATCHING TYPICAL SECTION



LOCAL STREETS – PATCH SECTION

5" = 550 lb/syd HMA FOR PATCHING, TYPE C:
 165 lb/syd HMA Surface, Type C ON
 385 lb/syd HMA Intermediate, Type C ON
 6" Compacted Aggregate, No. 53, Base

COLLECTOR STREETS – PATCH SECTION

7" = 770 lb/syd HMA FOR PATCHING, TYPE C:
 165 lb/syd HMA Surface, Type C ON
 275 lb/syd HMA Intermediate, Type C ON
 330 lb/syd HMA Base, Type C ON
 6" Compacted Aggregate, No. 53, Base

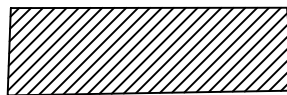
ARTERIAL STREETS – PATCH SECTION

8" = 870 lb/syd HMA FOR PATCHING, TYPE C:
 165 lb/syd HMA Surface, Type C ON
 275 lb/syd HMA Intermediate, Type C ON
 440 lb/syd HMA Base, Type C ON
 12" Compacted Aggregate, No. 53, Base

MAP LEGEND



PATCH LOCATIONS (SEE TABLES FOR ROAD CLASSIFICATION AND PATCH PAVEMENT SECTION LAYERS)



MILL & RESURFACE LOCATION

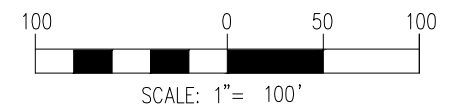


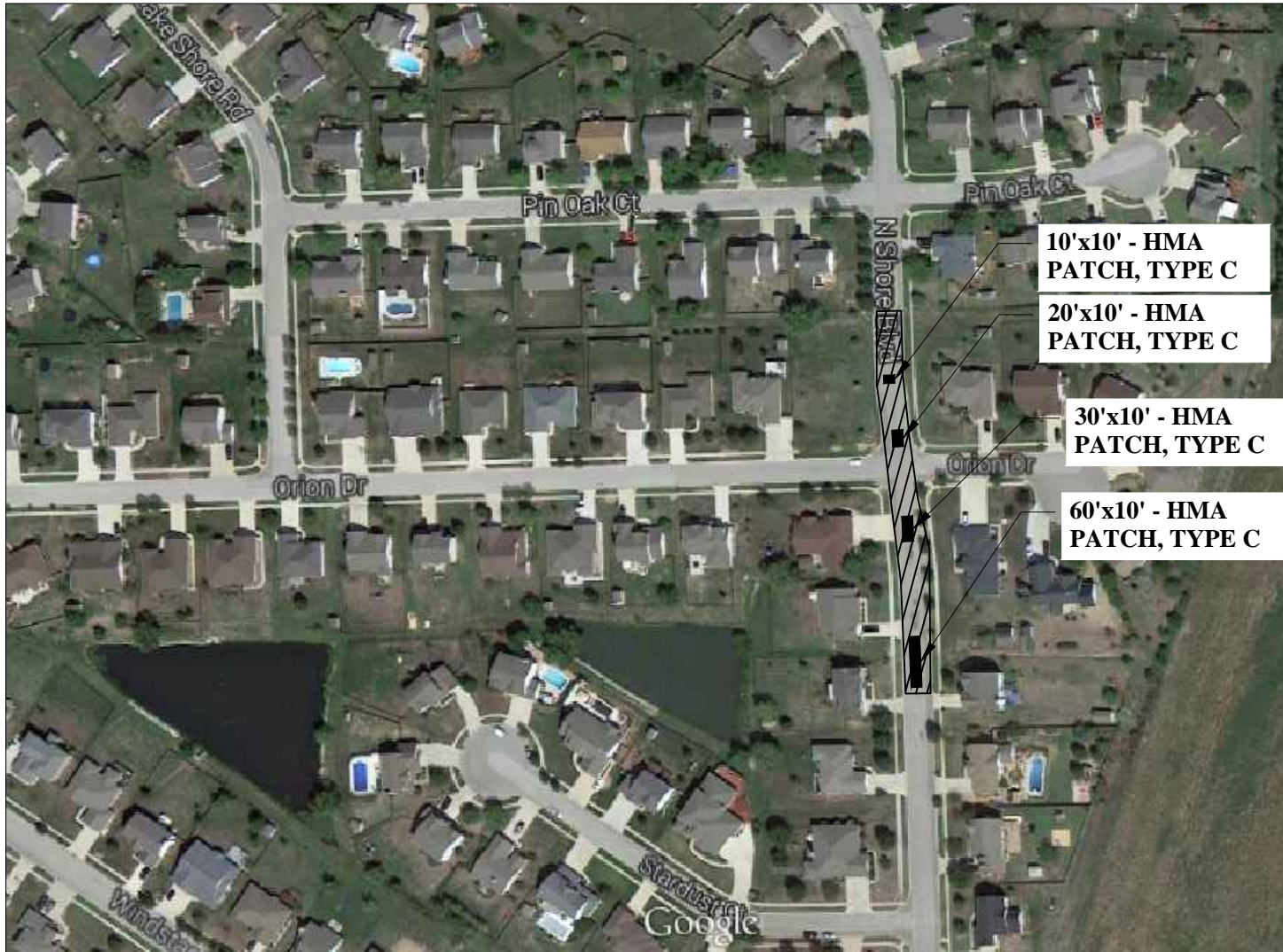


SHEET 2 OF 22



CITY OF FRANKLIN
2013 Maintenance Plan
North Short Blvd





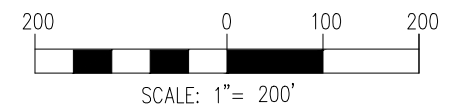
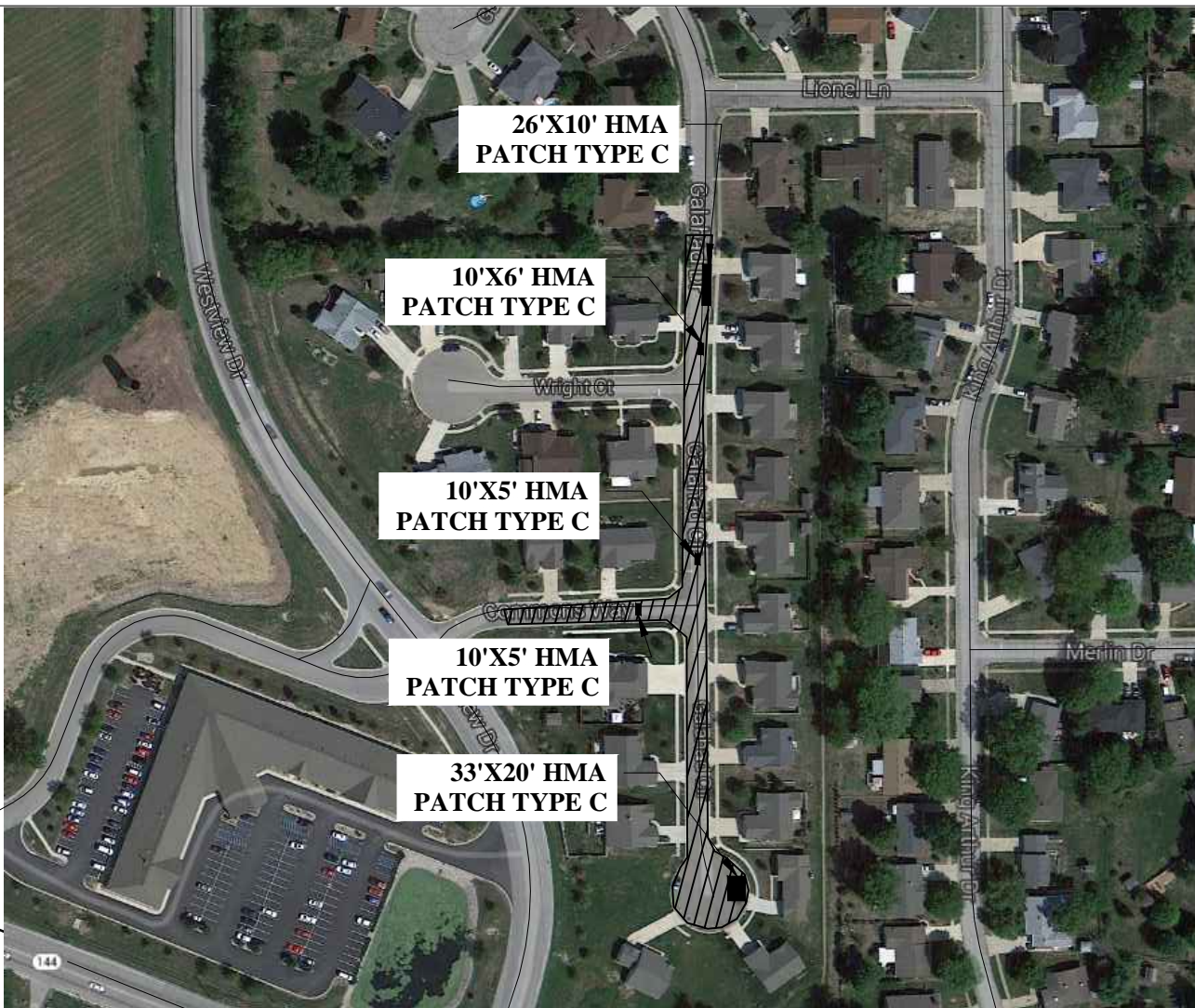
SHEET 3 OF 22



CITY OF FRANKLIN
2013 Maintenance Plan
 North Shore Blvd



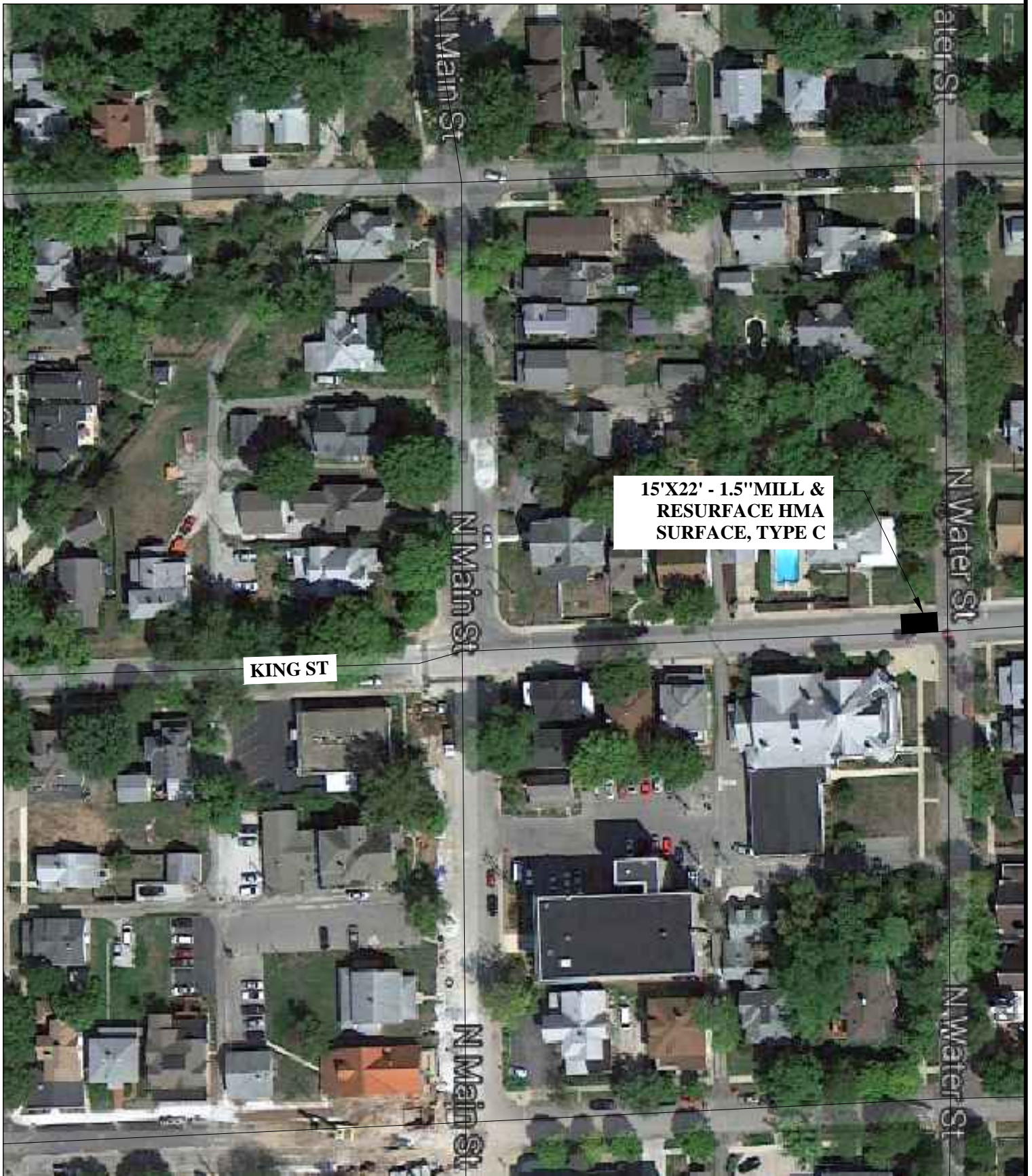




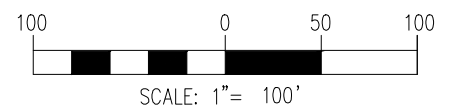


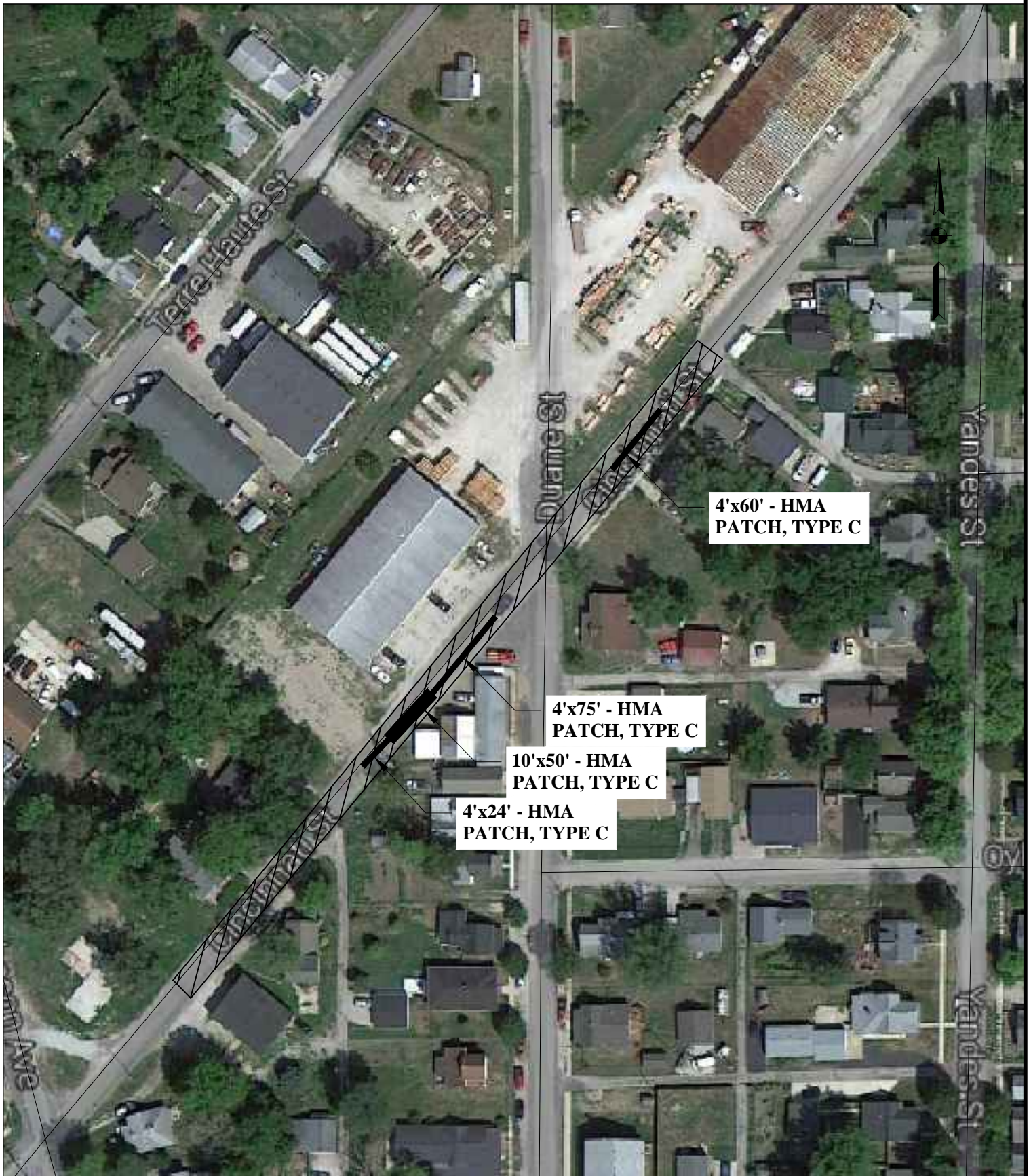
CITY OF FRANKLIN
2013 Maintenance Plan
Adams St. & Breckenridge St.



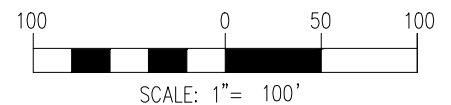


CITY OF FRANKLIN
2013 Maintenance Plan
King St



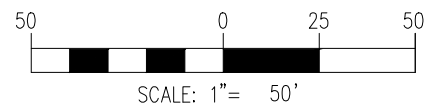


CITY OF FRANKLIN
2013 Maintenance Plan
Cincinnati St



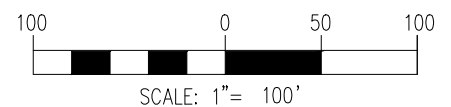


CITY OF FRANKLIN
2013 Maintenance Plan
Ohio St



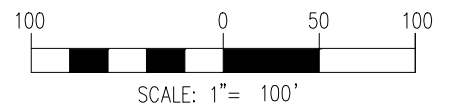


CITY OF FRANKLIN
2013 Maintenance Plan
Adams St. & Duane St.





CITY OF FRANKLIN
2013 Maintenance Plan
Madison St

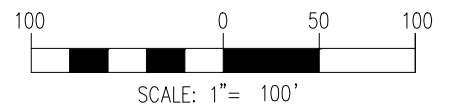




6'x20' - HMA
PATCH, TYPE C



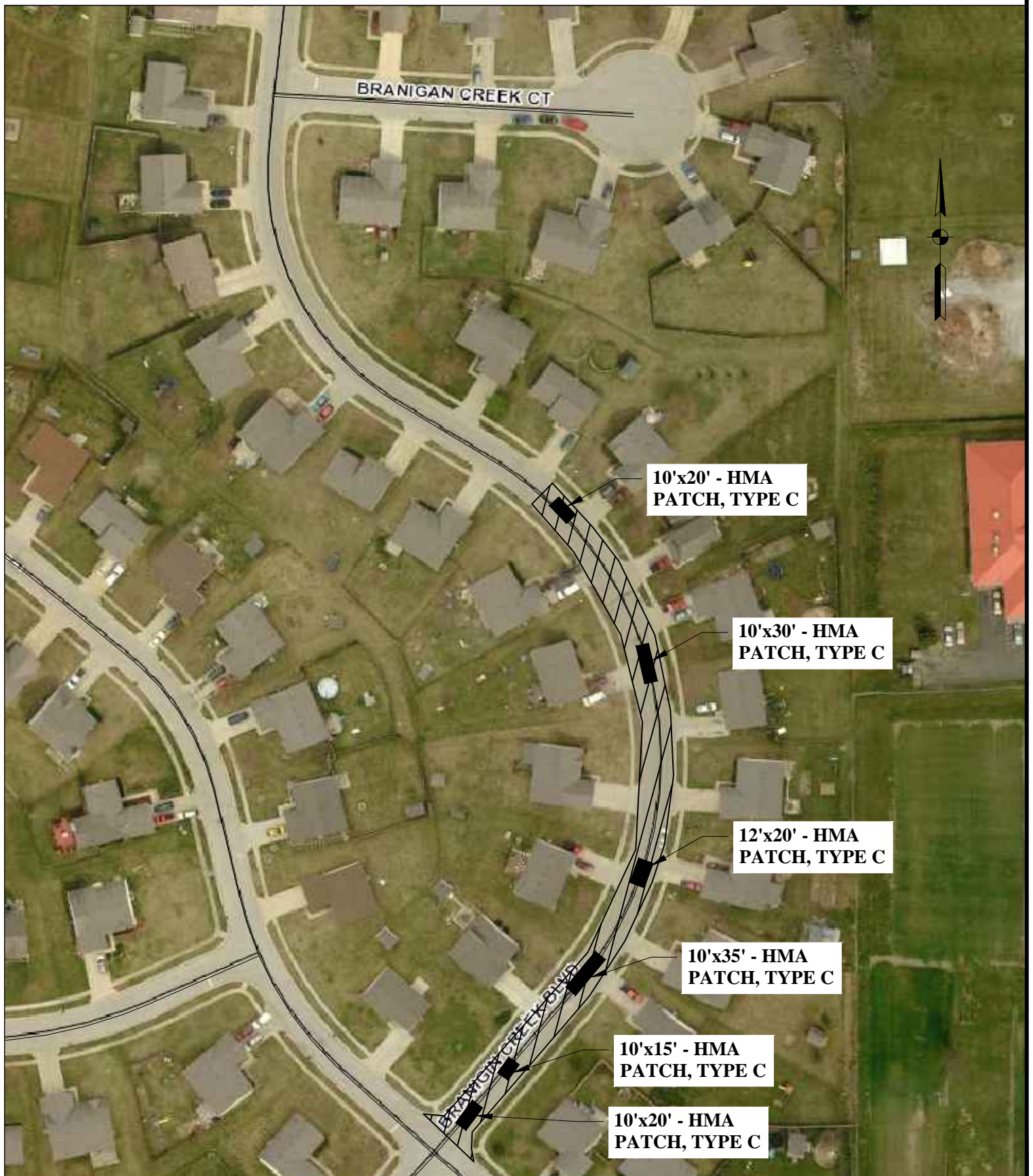
CITY OF FRANKLIN
2013 Maintenance Plan
Jim Black Rd / CR 500E



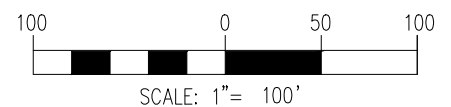


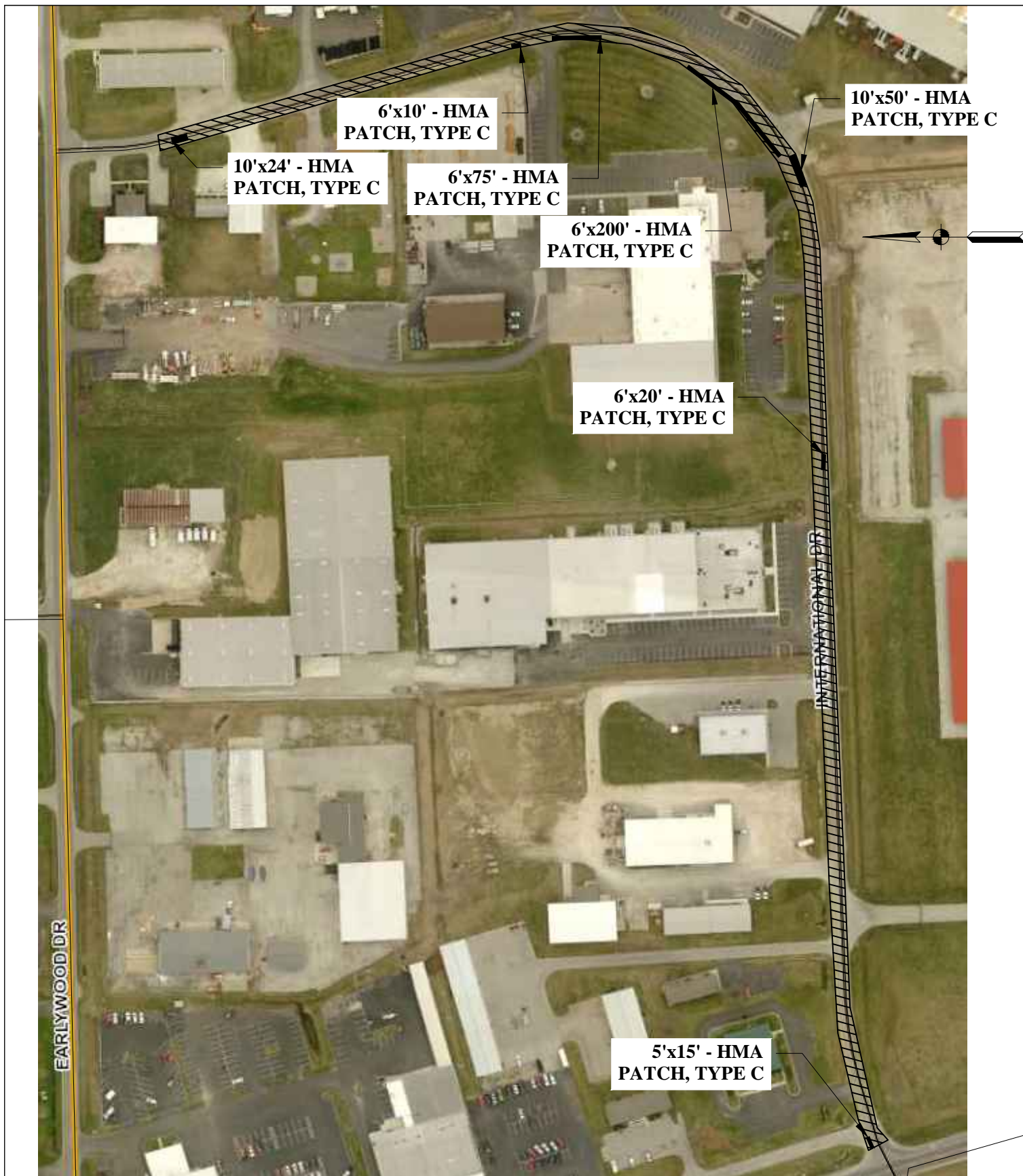
CITY OF FRANKLIN
2013 Maintenance Plan
Jim Black Rd / CR 500E





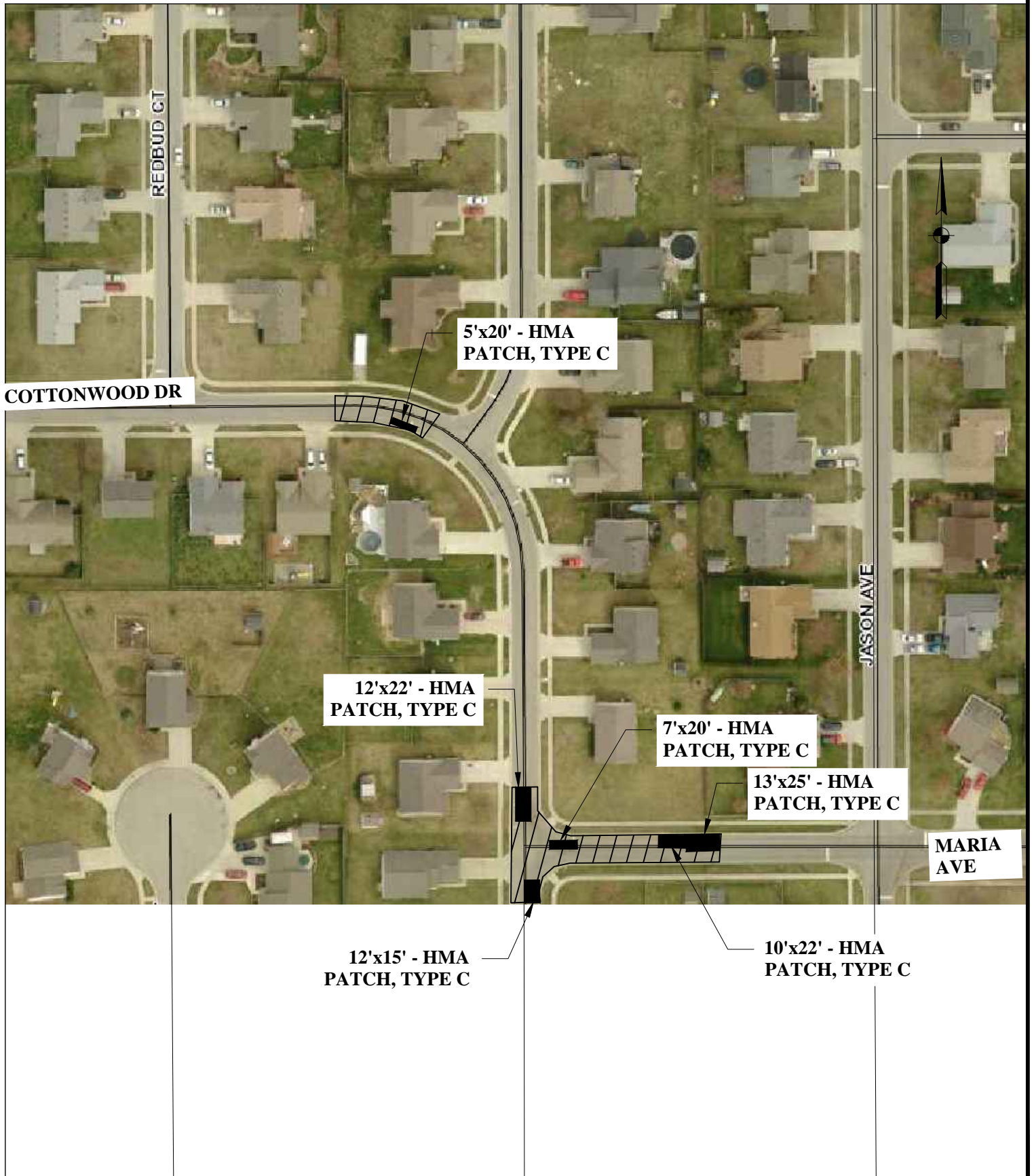
CITY OF FRANKLIN
2013 Maintenance Plan
Branigan Creek Blvd





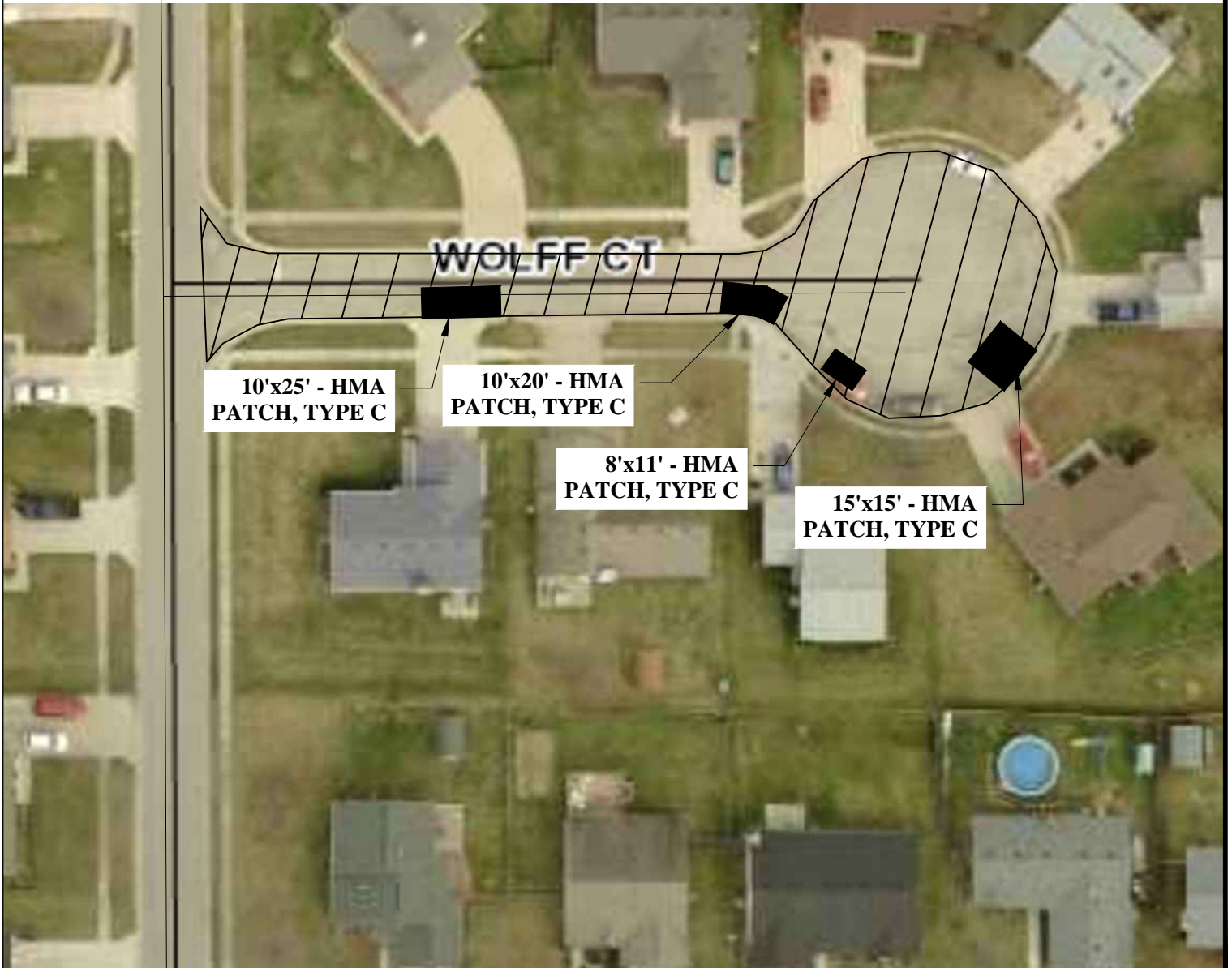
CITY OF FRANKLIN
2013 Maintenance Plan
 International Drive



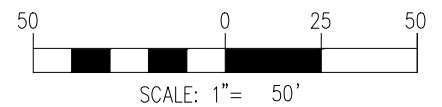


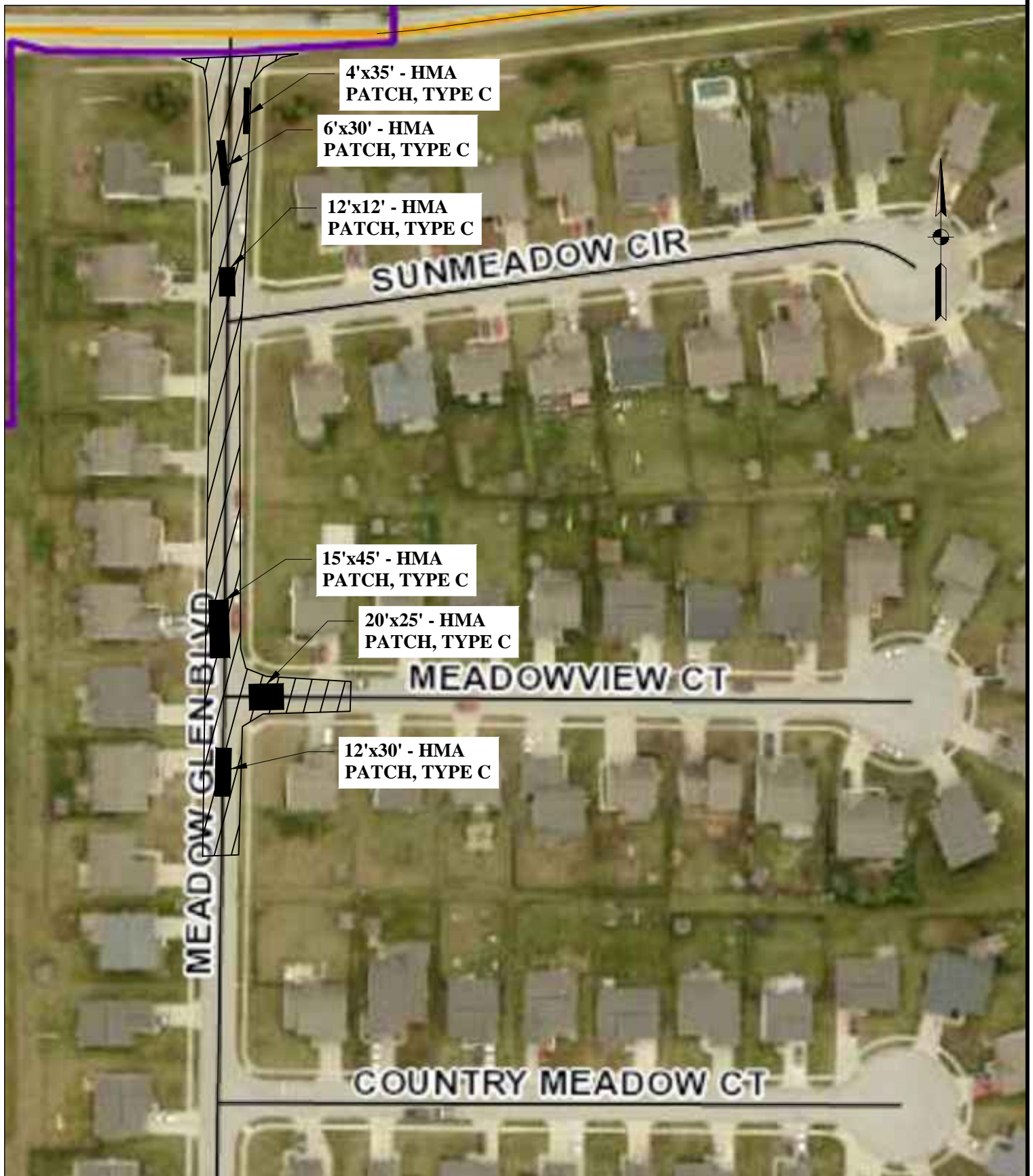
CITY OF FRANKLIN
2013 Maintenance Plan
Cottonwood Dr & Maria Ave



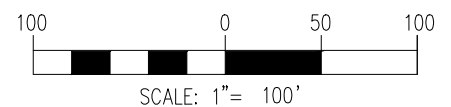


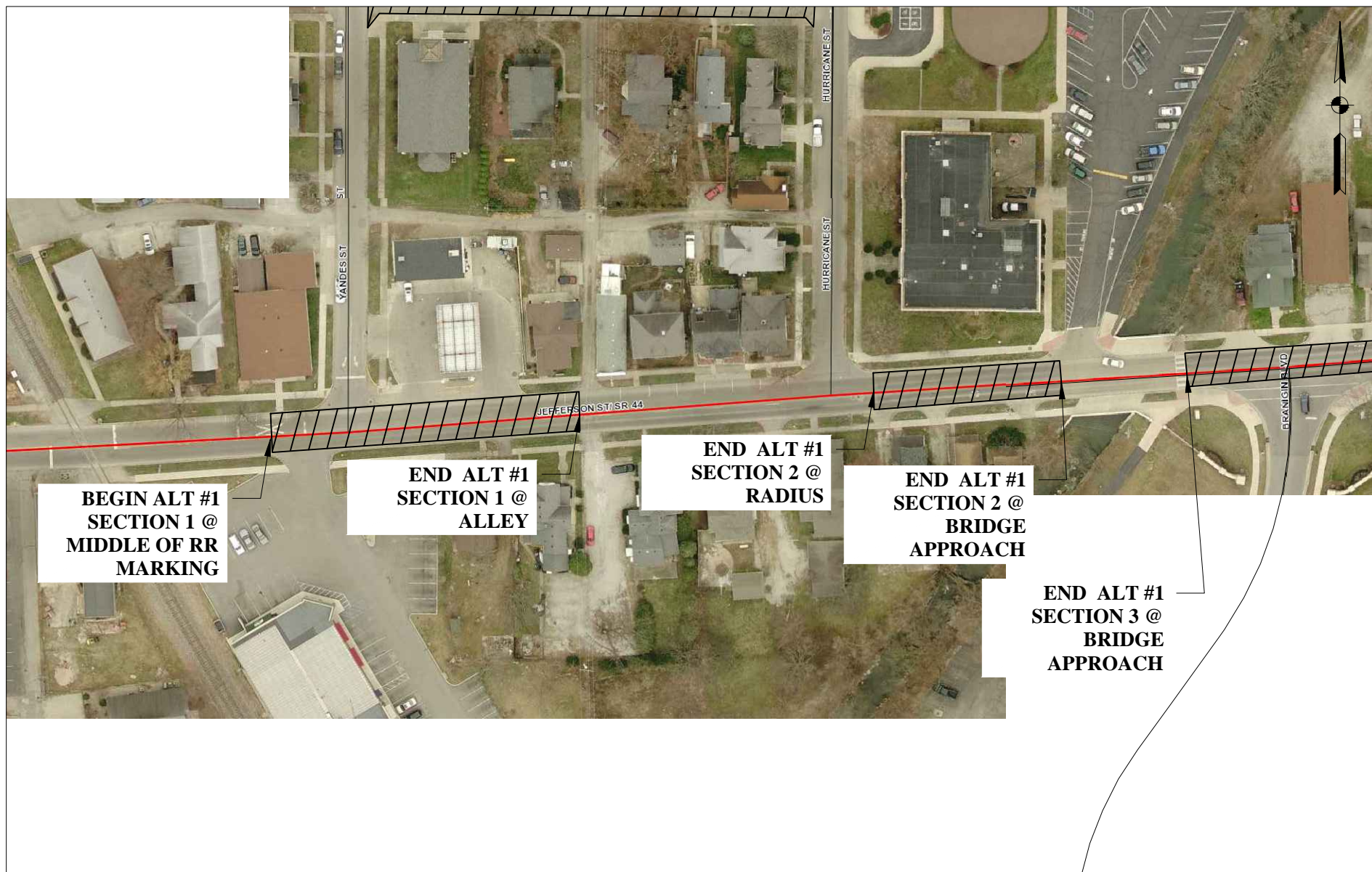
CITY OF FRANKLIN
2013 Maintenance Plan
Wolff Ct





CITY OF FRANKLIN
2013 Maintenance Plan
MeadowGeln Blvd & Meadowview Ct





CITY OF FRANKLIN

2013 Maintenance Plan

ALTERNATE 1 - Jefferson Street East Section







**ALT #1 END SOUTH
EDGE OF BARTRAM DR**

SHEET 22 OF 22



CITY OF FRANKLIN
2013 Maintenance Plan
 ALTERNATE 1 - North Shore Blvd

