

BERRIEN COUNTY ROAD COMMISSION

PROPOSAL AND SPECIFICATIONS

FOR

2015 LINCOLN TOWNSHIP SUBDIVISION STREETS

ULTRA THIN PROGRAM OR CAPE SEAL PROGRAM

PROJECT NO. 15016

**BOARD OF COUNTY ROAD COMMISSIONERS
OF THE COUNTY OF BERRIEN
2860 EAST NAPIER AVENUE
BENTON HARBOR, MI 49022
1-269-925-1196 OR 1-800-442-0734**

BERRIEN COUNTY ROAD COMMISSION

NOTICE TO BIDDERS

Notice is hereby given that sealed bids will be received at the office of the Board of County Road Commissioners of the County of Berrien, 2860 East Napier Avenue, Benton Harbor, Michigan 49022 until 11:00 A.M., Thursday, May 21, 2015 at which time and place they will be publicly opened and read aloud for the following:

- 1. 2015 ULTRA THIN PROGRAM OR SLURRY SEAL PROGRAM, LINCOLN TOWNSHIP; P15016**
- 2. 2015 SLURRY SEAL PROGRAM; P15017 AND P15045**
- 3. BACON SCHOOL ROAD RECONSTRUCTION PROJECT, ROYALTON TOWNSHIP; P15006**
- 4. 2015 SPRING WEED/BRUSH GUARDRAIL SPRAYING; P15063 AND P15064**

All bids will be tabulated and presented to the Board of County Road Commissioners at their next regular meeting.

All bids shall be signed in ink and sealed in an envelope with the name of the items bid upon and the name of the bidder plainly marked on the outside. Specifications and proposal blanks may be obtained at the office of the Berrien County Road Commission.

The Road Commission reserves the right to accept or reject any or all bids, to waive defects in a proposal and to award the Bid in any manner deemed to be in the best interest of Berrien County.

Please visit our website for bid proposals: www.bcroad.org

**BY THE BOARD OF COUNTY ROAD COMMISSIONERS
OF THE COUNTY OF BERRIEN
AUGUST ZIELKE
TIMOTHY LYNCH
JESS MINKS
WILLIAM HODGE
JOSEPH MARGOL**

BERRIEN COUNTY ROAD COMMISSION

BENTON HARBOR, MICHIGAN

GENERAL SPECIFICATIONS

Except as hereinafter provided by Supplemental Specifications or Special Provisions, the method and manner of performing the work and the quantity and quality of materials to be furnished under this contract shall be in strict accordance with the current Standard Specifications for construction of the Michigan Department of Transportation and the current edition of the Michigan Manual of Uniform Traffic Control Devices.

SUPPLEMENTAL SPECIFICATIONS

101.02 Definitions:

Commission – The Board of County Road Commissioners of the County of Berrien, Michigan.

103.02 Changes in Work

Adjustable Items – This Contract contains no adjustable item; therefore, no adjustments in unit prices for increased or decreased quantities will be allowed.

107.10 Owners Protective Liability Policy covering bodily injury and property damage protection shall be furnished to the Commission.

108.02 Prosecution of the Work – The Contractor shall begin the work within ten (10) days after being notified by the Commission to do so, unless this is inconsistent with the progress clause, with full force and equipment adequate to complete the sections within the time limit therein fixed for completion. In case of failure to proceed with the work as rapidly as is provided in the progress clause, or if it appears any time that such work is not being prosecuted in such a manner as to insure its completion within time specified, the Commission shall have the right to require the force and equipment as the Commission shall deem necessary to bring the work up to the Progress Schedule; and in case of the Contractor's neglect to do so, the Commission may place such working force and equipment on the work and charge the Contractor the cost of labor and such rental and depreciation rates for the plant and equipment as in its judgment is reasonable, and for such time as the plant and equipment are in service.

109.06 Partial Payment – PAYMENT WILL BE MADE IN FULL IN NOT MORE THAN THREE (3) PARTIAL PAYMENTS, SUCH PAYMENTS TO BE MADE on the basis of ninety percent (90%) of the value of the work done, provided the work is progressing satisfactorily and the orders of the engineer have been compiled with an provided that the date for completion, or date granted as extension, has not passed, and provided that the amount is at least \$2,000.00.

BERRIEN COUNTY ROAD COMMISSION

1. CANCELLATION OF CONTRACT PROVISIONS

The Board shall have the right to cancel the Contract for non-performance. Should an inspection by the Board's designated representative reveal that the Contractor's work results in any non-acceptable maintenance condition of one or all specified areas.

The Boards designated representative at the time of the first circumstance shall call for a meeting with the Contractor to insure no misunderstanding on the issues involved.

If the condition should repeat itself a second time, the Board's designated representative shall call for another meeting with the Contractor and issue a written warning of possible Contract termination should the condition continue.

If the condition should repeat itself for a third time, the Board's designated representative shall call for another meeting with the Contractor and issue a written Notice of Contract Termination.

2. Submission of bid will be construed as a conclusive presumption that the Contractor is thoroughly familiar with the bid requirements and specifications and that he/she understands agrees to abide by each and all stipulations and requirements contained therein.
3. The Contractor, his/her employees, agent, and representatives shall conduct themselves in a manner which is conducive to good public relations. They shall display proper respect to the Board, the general public, and surrounding property owners as is applicable.
4. Neither the Contractor nor his/her Subcontractors shall discriminate against any employee or applicant for employment, to be employed in the performance of this Contract, with respect his/her hire, tenure, terms, conditions or privileges of employment, of any matter directly or indirectly related to employment because of his/her race, color, religion, national origin, or ancestry. Breach of this covenant may be regarded as a material breach of this Contract.

BID BOND

A Certified Check or Cashier's Check or Bid Bond in the amount of not less than five (5) percent of the bid made payable to the Berrien County Road Commission shall accompany this proposal as guarantee of good faith.

BERRIEN COUNTY ROAD COMMISSION

TITLE VI

“The Berrien County Road Commission, in accordance with Title VI of Civil Rights Act of 1964, 78 Stat. 252, 42 USC 2000d to 2000d-4 an Title 49, Code of Federal Regulations, Department of Federally-assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of gender, disability, race, color, or national origin in consideration for an award”.

BERRIEN COUNTY ROAD COMMISSION

PROGRESS CLAUSE: Start work within ten (10) days after receiving notice of award of contract or on the date agreed upon with the Engineer. In no case shall any work be commenced prior to receipt of a formal notice of award by the Road Commission.

This Contract shall be completed in 20 working days. Working days will be charged starting on that date that the work is started or the date agreed. The project shall be complete by September 5, 2015.

The low bidder(s) for the work covered by this proposal will be required to meet with Road Commission representatives to work out a detailed Progress Schedule. The schedule for this meeting will be set within one week after the low bidder(s) is determined.

The named subcontractor(s) for Designated and/or Specialty Items, as shown on the proposal, is recommended to be at the scheduled meeting if such items materially effect the work schedule.

The Project Engineer will arrange the time and place for the meeting.

The Progress Schedule shall include, as a minimum, the controlling work items for the completion of the project and the planned dates (or work day for a work day project) that these work items will be controlling operations. When specified in the bidding proposal, the date the project is to be opened to traffic as well as the final project completion date shall also be included in the Progress Schedule.

If the bidding proposal specifies other controlling dates, these shall also be included in the Progress Schedule.

Failure on the part of the contractor to carry out the provision of the Progress Schedule, as established, may be considered sufficient cause to prevent bidding future projects until a satisfactory rate of progress is again established.

The Road Commission to install the chip seal surface four weeks before the contractor to install the Seal, Slurry Surface.

BERRIEN COUNTY ROAD COMMISSION

BERRIEN COUNTY ROAD COMMISSION

PROJECT SPECIFICATIONS for SPECIAL PROVISIONS

GENERAL

The “2012 Standard Specifications for Construction” (Standard Specifications) of the Michigan Department of Transportation, are hereby incorporated into these contract documents. Copies of these standards are available for inspection at the office of the Engineer. All construction included in this project shall be done in accordance with the Standard Specifications, as modified by these project specifications and special provisions, or as modified by plan notes. Where notes on the plans are in conflict with the standard specifications or there special provisions, the plan notes shall control.

CONTRACT REQUIREMENTS AND COVENANTS

Where the contract requirements in these Contract Documents conflict with the contract requirements specified in Division 1 of the standard specifications, the contract requirements in these contract documents shall control.

SPECIAL PROVISIONS

The special provisions, which follow, shall modify the standard specifications for the item indicated.

BERRIEN COUNTY ROAD COMMISSION

SPECIAL PROVISION FOR MAINTAINING TRAFFIC

PAGE 1 OF 2

BCRC/BQB

04/04

GENERAL

The Contractor shall set up lane closure as shown on the attached detail. The Contractor is to maintain Local Traffic at all times during construction in accordance with Sections 103.05, 103.06 and 812 of the 2012 Standard Specifications for Construction and as herein specified. Emergency vehicles must be allowed access at all times.

The Contractor is advised that the current Michigan Manual of Uniform Traffic Control Devices as revised is hereby established as governing all work in connection with traffic control devices, barricade lighting, etc., required on this project.

CONSTRUCTION INFLUENCE AREA (C.I.A.)

The Construction Influence Area (C.I.A.) shall consist of the width of the proposed right of way and easements from the point of beginning to the point of ending and a sufficient distance before and after the project to warn motorists of the construction ahead.

TRAFFIC CONTROL DEVICES

All signs, warning lights, barricades, and other traffic control devices shall be in accordance with the current Michigan Manual of Uniform Traffic Control Devices. As shown on the plans and in the proposal, the following items will be measured separately for payment Minor Traf Devices; Flag Control; Sign, Type B Temp, Furn., Type Type B Temp, Oper.

The Contractor shall furnish, erect, maintain and, upon completion of the work, remove all traffic control devices within the Construction Influence Area as shown on the plans for the safety and protection of through and local traffic. Protection for and protection of pedestrian traffic shall be maintained at all times.

BASIS OF PAYMENT

Pay Items for Minor Traf Devices; Flag Control; Sign, Type B Temp. Furn., and Sign, Type B Temp., Oper provided whenever required to maintain traffic as specified herein. All other work of Maintaining Traffic and Maintaining Local Traffic shall be included in the above items.

BERRIEN COUNTY ROAD COMMISSION

SPECIAL PROVISION FOR MAINTAINING TRAFFIC PAGE 2 OF 2

BCRC/BQB

04/04

METHOD OF MEASUREMENT AND PAYMENT

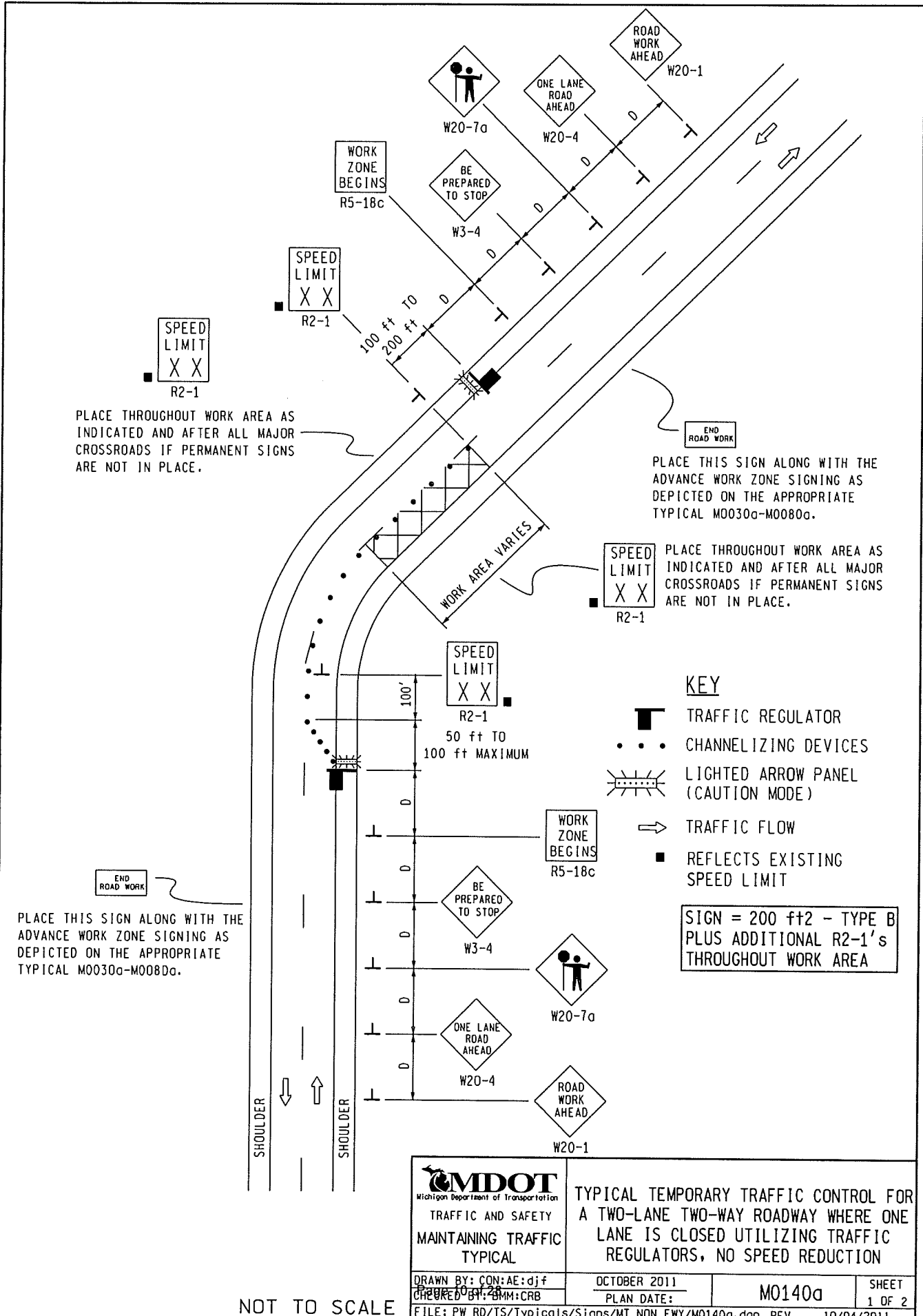
The completed work as measured for Maintaining Traffic will be measured as follows:

PAY ITEM

PAY UNIT

Minor Traffic Devices
Flag Control
Sign, Type B, Temp, Furn
Sign, Type B, Temp, Oper

Lsum
Lsum
sft
sft



PLACE THROUGHOUT WORK AREA AS INDICATED AND AFTER ALL MAJOR CROSSROADS IF PERMANENT SIGNS ARE NOT IN PLACE.

PLACE THIS SIGN ALONG WITH THE ADVANCE WORK ZONE SIGNING AS DEPICTED ON THE APPROPRIATE TYPICAL M0030a-M0080a.

PLACE THROUGHOUT WORK AREA AS INDICATED AND AFTER ALL MAJOR CROSSROADS IF PERMANENT SIGNS ARE NOT IN PLACE.

KEY

- TRAFFIC REGULATOR
- CHANNELIZING DEVICES
- LIGHTED ARROW PANEL (CAUTION MODE)
- TRAFFIC FLOW
- REFLECTS EXISTING SPEED LIMIT

SIGN = 200 ft x 2 ft - TYPE B PLUS ADDITIONAL R2-1's THROUGHOUT WORK AREA

PLACE THIS SIGN ALONG WITH THE ADVANCE WORK ZONE SIGNING AS DEPICTED ON THE APPROPRIATE TYPICAL M0030a-M0080a.

<p>MDOT Michigan Department of Transportation</p> <p>TRAFFIC AND SAFETY</p> <p>MAINTAINING TRAFFIC TYPICAL</p>	<p>TYPICAL TEMPORARY TRAFFIC CONTROL FOR A TWO-LANE TWO-WAY ROADWAY WHERE ONE LANE IS CLOSED UTILIZING TRAFFIC REGULATORS, NO SPEED REDUCTION</p>	
	<p>DRAWN BY: CON:AE:djf CHECKED BY: BMM:CRB</p>	<p>OCTOBER 2011 PLAN DATE:</p>

FILE: PW RD/TS/Typicals/Signs/MT NON FWY/M0140a.dgn REV. 10/04/2011

NOT TO SCALE


NOTES

- 1H. D = DISTANCE BETWEEN TRAFFIC CONTROL DEVICES AND LENGTH OF LONGITUDINAL BUFFERS
SEE M0020a FOR "D" VALUES.
2. ALL NON-APPLICABLE SIGNING WITHIN THE CIA SHALL BE MODIFIED TO FIT CONDITIONS, COVERED OR REMOVED.
3. DISTANCES BETWEEN SIGNS, THE VALUES FOR WHICH ARE SHOWN IN TABLE D, ARE APPROXIMATE AND MAY NEED ADJUSTING AS DIRECTED BY THE ENGINEER.
- 3A. THE "WORK ZONE BEGINS" (R5-18c) SIGN SHALL BE USED ONLY IN THE INITIAL SIGNING SEQUENCE IN THE WORK ZONE. SUBSEQUENT SEQUENCES IN THE SAME WORK ZONE SHALL OMIT THIS SIGN AND THE QUANTITIES SHALL BE ADJUSTED APPROPRIATELY.
- 4A. THE MAXIMUM RECOMMENDED DISTANCE(S) BETWEEN CHANNELIZING DEVICES IN THE TAPER AREA(S) SHOULD BE 15 FEET AND SHOULD BE EQUAL IN FEET TO TWICE THE POSTED SPEED IN MILES PER HOUR IN THE PARALLEL AREA(S).
5. FOR OVERNIGHT CLOSURES, TYPE III BARRICADES SHALL BE LIGHTED.
6. WHEN CALLED FOR IN THE FHWA ACCEPTANCE LETTER FOR THE SIGN SYSTEM SELECTED, THE TYPE A WARNING FLASHER, SHOWN ON THE WARNING SIGNS, SHALL BE POSITIONED ON THE SIDE OF THE SIGN NEAREST THE ROADWAY.
7. ALL TEMPORARY SIGNS, TYPE III BARRICADES, THEIR SUPPDRT SYSTEMS AND LIGHTING REQUIREMENTS SHALL MEET NCHRP 350 CRASHWORTHLY REQUIREMENTS STIPULATED IN THE CURRENT EDITION OF THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE STANDARD PLANS AND APPLICABLE SPECIAL PROVISIONS. ONLY DESIGNS AND MATERIALS APPROVED BY MDOT WILL BE ALLOWED.
9. ALL TRAFFIC REGULATORS SHALL BE PROPERLY TRAINED AND SUPERVISED.
- 9A. IN ANY OPERATION INVOLVING MORE THAN ONE TRAFFIC REGULATOR, ONE PERSON SHOULD BE DESIGNATED AS HEAD TRAFFIC REGULATOR.
10. ALL TRAFFIC REGULATORS' CONDUCT, THEIR EQUIPMENT, AND TRAFFIC REGULATING PROCEDURES SHALL CONFORM TO THE CURRENT EDITION OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND THE CURRENT EDITION OF THE MDOT HANDBOOK ENTITLED "TRAFFIC REGULATORS INSTRUCTION MANUAL."
11. WHEN TRAFFIC REGULATING IS ALLOWED DURING THE HOURS OF DARKNESS, APPROPRIATE LIGHTING SHALL BE PROVIDED TO SUFFICIENTLY ILLUMINATE THE TRAFFIC REGULATOR'S STATIONS.
- 12E. THE MAXIMUM DISTANCE BETWEEN THE TRAFFIC REGULATORS SHALL BE NO MORE THAN 2 MILES IN LENGTH UNLESS RESTRICTED FURTHER IN THE SPECIAL PROVISIONS FOR MAINTAINING TRAFFIC. ALL SEQUENCES OF MORE THAN 2 MILES IN LENGTH WILL REQUIRE WRITTEN PERMISSION FROM THE ENGINEER BEFORE PROCEEDING.
13. WHEN INTERSECTING ROADS OR SIGNIFICANT TRAFFIC GENERATORS (SHOPPING CENTERS, MOBILE HOME PARKS, ETC.) OCCUR WITHIN THE ONE-LANE TWO-WAY OPERATION, INTERMEDIATE TRAFFIC REGULATORS AND APPROPRIATE SIGNING SHALL BE PLACED AT THESE LOCATIONS.
14. ADDITIONAL SIGNING AND/OR ELONGATED SIGNING SEQUENCES SHOULD BE USED WHEN TRAFFIC VOLUMES ARE SIGNIFICANT ENOUGH TO CREATE BACKUPS BEYOND THE W3-4 SIGNS.
15. THE HAND HELD (PADDLE) SIGNS REQUIRED BY THE MMUTCD TO CONTROL TRAFFIC WILL BE PAID FOR AS PART OF FLAG CONTROL.
- 28E. THE TRAFFIC REGULATORS SHOULD BE POSITIONED AT OR NEAR THE SIDE OF THE ROAD SO THAT THEY ARE SEEN CLEARLY AT A MINIMUM DISTANCE OF 500 FEET. THIS MAY REQUIRE EXTENDING THE BEGINNING OF THE LANE CLOSURE TO OVERCOME VIEWING PROBLEMS CAUSED BY HILLS AND CURVES.

SIGN SIZES

DIAMOND WARNING - 48" x 48"
 R2-1 REGULATORY - 48" x 60"
 R5-18c REGULATORY - 48" x 48"

NOT TO SCALE

 Michigan Department of Transportation TRAFFIC AND SAFETY MAINTAINING TRAFFIC TYPICAL	TYPICAL TEMPORARY TRAFFIC CONTROL FOR A TWO-LANE TWO-WAY ROADWAY WHERE ONE LANE IS CLOSED UTILIZING TRAFFIC REGULATORS, NO SPEED REDUCTION				
DRAWN BY: CON:AE:djf CREATED BY: BMM:CRB	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">OCTOBER 2011</td> <td style="border: none; text-align: right;">SHEET</td> </tr> <tr> <td style="border: none;">PLAN DATE:</td> <td style="border: none; text-align: right;">2 OF 2</td> </tr> </table>	OCTOBER 2011	SHEET	PLAN DATE:	2 OF 2
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**GUIDE SPECIFICATION
FOR
HMA Ultra-Thin**

1 of 4

- a. **Description.** This special provision provides acceptance testing requirements for use on HMA Ultra-Thin Overlay mixture.
- b. **Materials.** The HMA and materials shall meet the following requirements:
1. **Bond Coat.** The bond coat material will be emulsified asphalt conforming to the requirements of Section 904 of the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, Type SS1h - Polymer Modified.
 2. **HMA Ultra-Thin Overlay.** The Ultra Thin HMA Overlay shall be composed of a mixture of aggregate, asphalt binder, and if required, mineral filler, as listed in Table 1.

Table 1 - HMA Ultra-Thin Overlay Mixture Requirements

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

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

Table 2 - HMA Ultra-Thin Overlay Aggregate Gradation

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

Table 3 - HMA Ultra-Thin Overlay Aggregate Physical Requirements

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

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

4. Performance Graded (PG) Asphalt Binder. Binder selection is based on present day two-way commercial ADT as listed in Table 4. The PG binder shall meet all the requirements in Section 904 of the 2012 MDOT Standard Specifications for Construction.

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

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

c. **Construction.**

1. Bond Coat Application. The bond coat material will be applied to completely cover the prepared surface at a rate of 0.11 - 0.15 gal/yd².
2. Mixture Application Rate. The target application rate shall be 83 lb/yd², unless specified by the engineer to address special circumstances.
3. Mix Design. The Contractor shall submit to the Owner a complete mix design for review prior to the start of production.
4. Quality Control. The Contractor shall provide and follow a Quality Control (QC) plan for the Ultra Thin HMA Overlay that will maintain adequate QC for production and construction processes applicable to this specification and the contract documents. For QC purposes, the Contractor must perform at least one QC test per day for gradation, AC content, and air voids, and is allowed to take informational cores for application rates. The Owner shall be provided a copy of the QC plan for review, prior to mix production and placement.

After the job-mix-formula is established, the aggregate gradation and the binder content of the HMA mixture furnished for the work shall be maintained within the Range 1 uniformity tolerance limits permitted for the job-mix-formula specified in Table 5. However, if deviations are predominantly either below or above the job-mix-formula, the Owner may order alterations in the plant to bring the mixture to the job-mix-formula. If two consecutive aggregate gradations on one sieve, or binder contents as determined by the QC tests, are outside Range 1 but within Range 2 tolerance limits, the Contractor shall suspend all operations. Contract time will continue during these times when the plant is down. Before resuming any production, the Contractor shall propose, for the Owner's approval, all necessary alterations to the materials or plant so that the

job-mix-formula can be maintained. The Owner, after evaluating for effects on AWI and mix design properties, will approve or disapprove such alterations.

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

PARAMETER	* Range 1	Range 2
Air Voids**	± 1.0	± 2.0
Binder Content	± 0.40	± 0.50
% Passing # 8 and Larger Sieves	± 5.0	± 8.0
% Passing # 30 Sieve	± 4.0	± 6.0
% Passing # 200 Sieve	± 1.0	± 2.0
* This range allows for normal mixture and testing variations. The mixture shall be proportioned to test as closely as possible to the Job-Mix-Formula.		
** Air Void limits apply to QC testing and are optional for Acceptance testing.		

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

Table 6 – Number of Rollers Required based on Placement Rate

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

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

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

e. **Rejected Mixtures.** If for any one mixture, two consecutive aggregate gradations on one sieve or binder contents as determined by acceptance tests exceed the uniformity tolerance of Range 2 under Table 5, or do not meet the minimum requirements for crushed particle content specified in the project documents, the mixture will be rejected. If such mixtures are placed in a pavement, the remaining portions of the failing acceptance samples (split sample) will be sent to an independent Laboratory to confirm the acceptance test results. If the Laboratory's results do not confirm the acceptance test results, then no price adjustments will be made for the mixture involved. If the Laboratory's results confirm the acceptance test results and if, in the Owner's judgment, the defective mixture can remain in place, the contract unit price for the defective mixture involved, as determined from acceptance tests, will be decreased on the following basis: The contract unit price for material outside of Range 2 will be decreased 25 percent.

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

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

Contact Item (Pay Item)

HMA, Ultra-Thin, Low Volume,
HMA, Ultra-Thin, Medium Volume,
HMA, Ultra-Thin, High Volume,
HMA, Ultra-Thin Mix, Special

Pay Unit

Square Yard or Ton
Square Yard or Ton
Square Yard or Ton
Ton

Payment for HMA, Ultra-Thin, Low, Medium and High Volume, includes all materials, equipment, labor for preparing the surface, placing temporary pavement markings, placing the HMA Ultra-Thin Overlay mixture and complying with all requirements. The placement includes placement of a single course of mixture for full width coverage as specified in the plans.

Payment for HMA, Ultra-Thin Mix, Special, includes all materials, equipment, labor for preparing the surface, placing the HMA Ultra-Thin Overlay mixture for special situations (wedging, scratch course, etc.) and complying with all requirements.

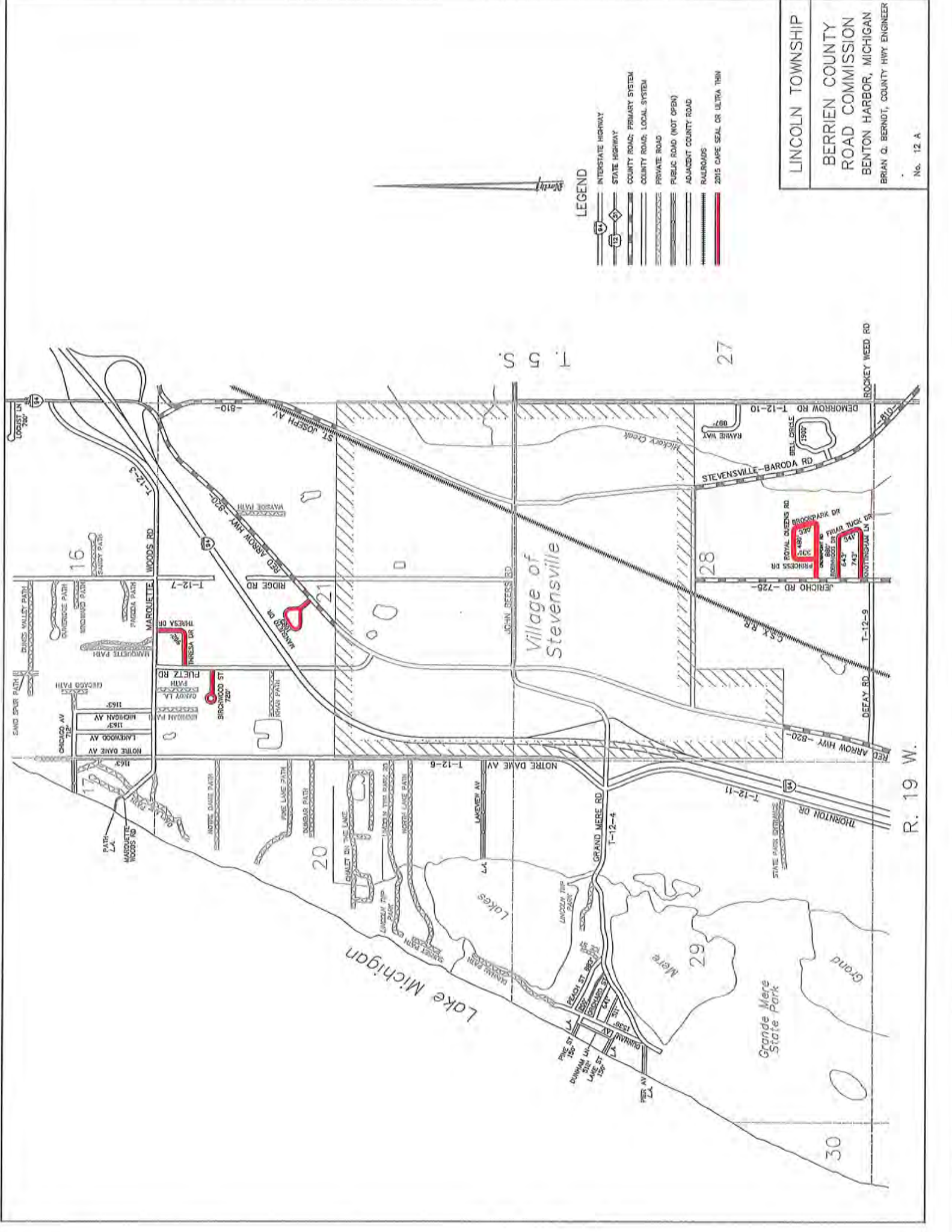
All professionals are bound by law and ethical constraints to accept complete responsibility for designs which they have responsible charge. To that end, this Specification is presented for their careful consideration, and as a technical aid.

Berrien County Road Commission
2014 Ultra Thin or Slurry Seal Program
 Lincoln Township

Date	Road Name	Notes	Width	Length	Area	No. of Radii	Area of Radii	Cul-de-sac	Area	Total SFT	Total SYD
	Mansueto Dr		16	895	14320	0	0	0	0	14,320	1,591
	Mansueto Dr		19	194	3686	2	43	0	0	3,729	414
	Thresa Dr		19	882	16758	4	86	0	0	16,844	1,872
	Birchwood Dr		20	562	11240	0	0	0	0	11,240	1,249
	Birchwood Dr		27.5	135	3712.5	2	43	0	0	3,756	417
	Royal Queens Rd		21	480	10080	0	0	0	0	10,080	1,120
	Princess Dr		21	320	6720	2	43	0	0	6,763	751
	Brookpark Dr		21	330	6930	0	0	0	0	6,930	770
	Crownpoint Dr		23	870	20010	2	43	0	0	20,053	2,228
	Knottingham Ln		20	733	14660	2	43	0	0	14,703	1,634
	Friar Tuck Dr		20	341	6820	0	0	0	0	6,820	758
	Robinhood		20	633	12660	2	43	0	0	12,703	1,411
	Ann Ct		17	642	10914	4	86	0	0	11,000	1,222
	Southfork Dr		29.5	1250	36875	3	64.5	0	0	36,940	4,104
	Dallas Ct		29	135	3915	2	43	50	7,854	11,812	1,312
	Adams Dr		20	1263	25260	2	43	0	0	25,303	2,811
	Pioneer Ave		18	155	2790	2	43	0	0	2,833	315
	Pioneer Ave		20	310	6200	2	43	0	0	6,243	694
	Pioneer Ave		30	1535	46050	2	43	0	0	46,093	5,121
	Hacienda Dr		20	655	13100	0	0	0	0	13,100	1,456
	Marilyn Jane Way		30	435	13050	4	86	50	7,854	20,990	2,332
	Green Acres Dr		20	1267	25340	2	43	0	0	25,383	2,820
	Glen Haven Dr		20	1270	25400	2	43	0	0	25,443	2,827
	Gordon Rd		18	337	6066	4	86	0	0	6,152	684
	Gordon Rd		17	155	2635	2	43	0	0	2,678	298
	James Dr		20.5	2500	51250	4	86	0	0	51,336	5,704
	Joni Ln		20	650	13000	2	43	0	0	13,043	1,449
	Jory Ln		20	270	5400	2	43	0	0	5,443	605
	Judi Ln		20	145	2900	2	43	0	0	2,943	327

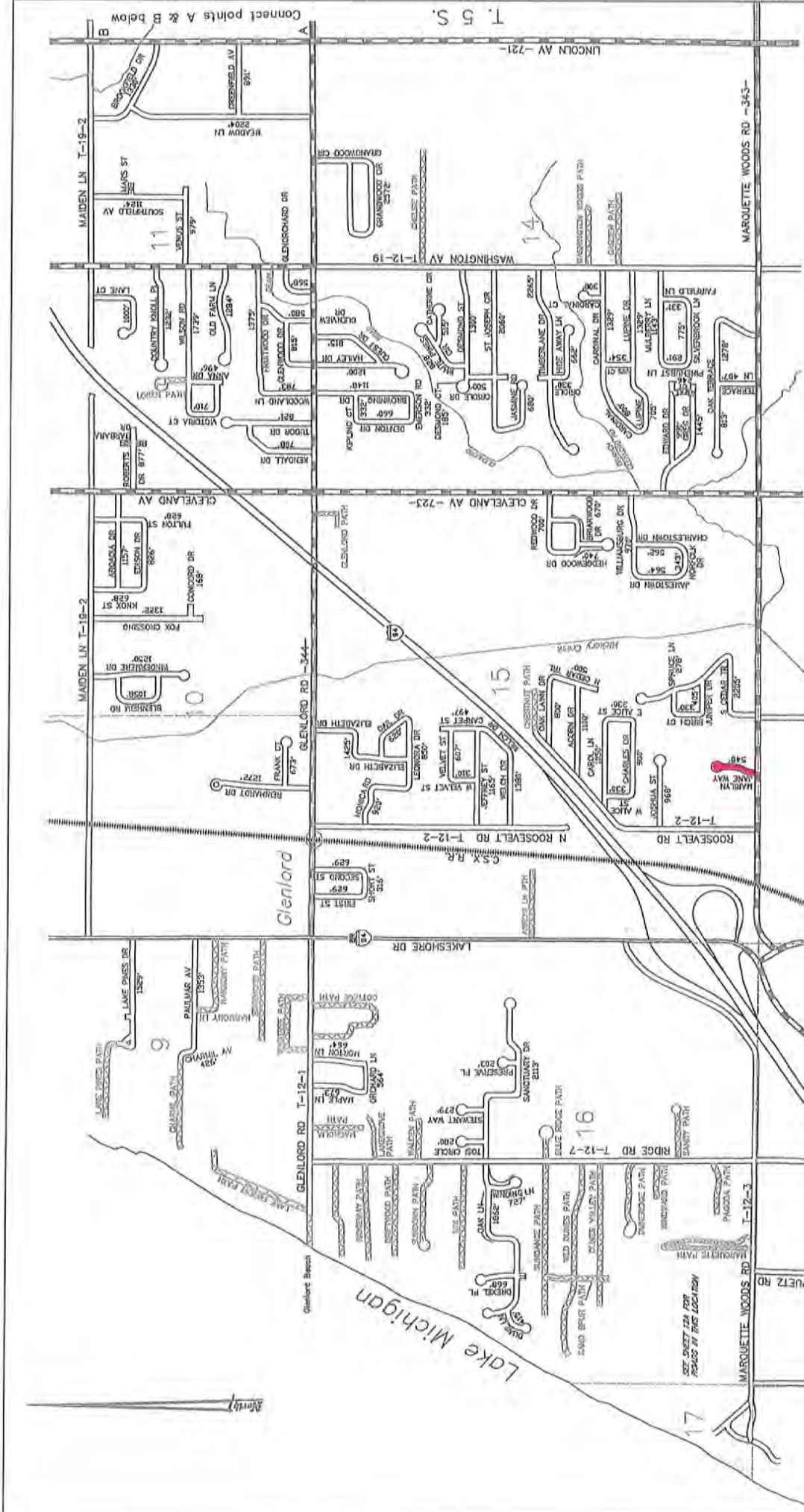
TOTAL LENGTH Feet 19,349
Miles 3.66

TOTAL AREA Sq. Ft 434,675
Sq. Yd 48,297



- LEGEND**
- INTERSTATE HIGHWAY
 - STATE HIGHWAY
 - COUNTY ROAD, PRIMARY SYSTEM
 - COUNTY ROAD, LOCAL SYSTEM
 - PRIVATE ROAD
 - PUBLIC ROAD (NOT OPEN)
 - ADJACENT COUNTY ROAD
 - RAILROADS
 - 2015 CAPE SEAL OR ULTRA THIN

LINCOLN TOWNSHIP
 BERRIEN COUNTY
 ROAD COMMISSION
 BENTON HARBOR, MICHIGAN
 BRIAN G. BERNDT, COUNTY HWY ENGINEER



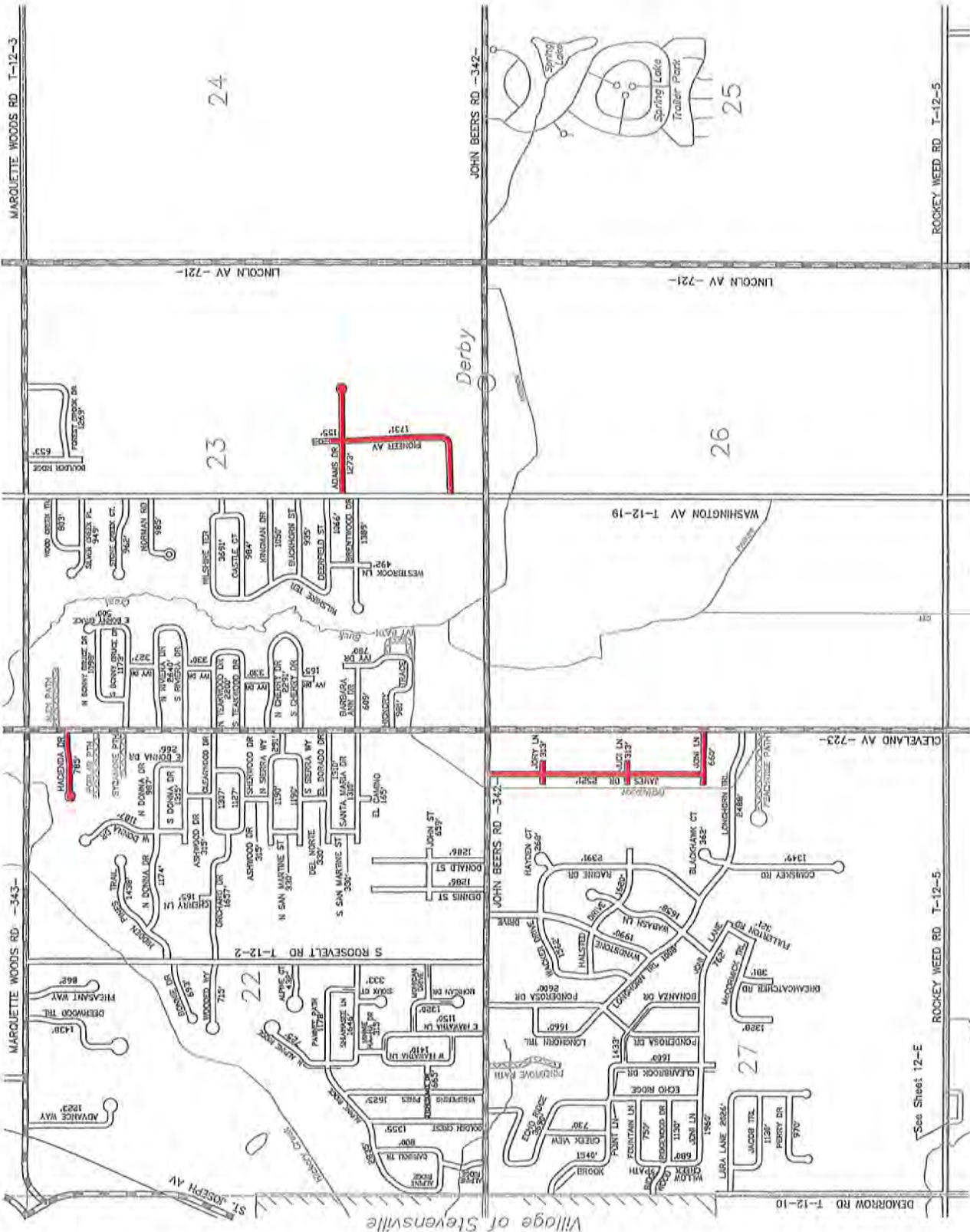
R. 19 W.



LEGEND

- INTERSTATE HIGHWAY
- STATE HIGHWAY
- COUNTY ROAD - PRIMARY SYSTEM
- COUNTY ROAD - LOCAL SYSTEM
- PRIVATE ROAD
- PUBLIC ROAD (NOT OPEN)
- ADJACENT COUNTY ROAD
- RAILROADS
- 2015 CAPE SEAL OR ULTRA THIN

LINCOLN TOWNSHIP
 BERRIEN COUNTY
 ROAD COMMISSION
 BENTON HARBOR, MICHIGAN
 BRIAN Q. BERNDT, COUNTY HWY ENGINEER



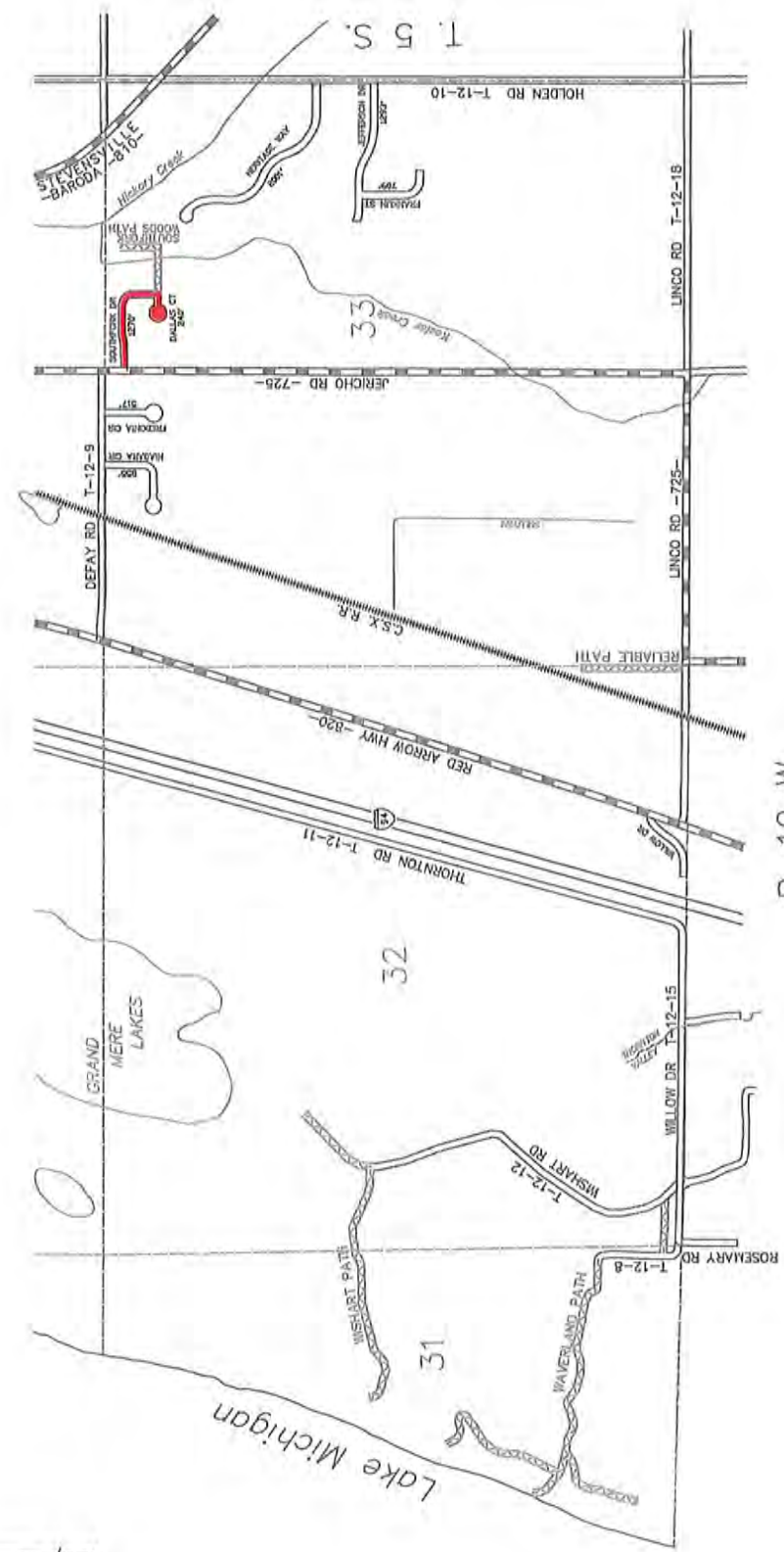
- LEGEND**
- INTERSTATE HIGHWAY
 - STATE HIGHWAY
 - COUNTY ROAD: PRIMARY SYSTEM
 - COUNTY ROAD: LOCAL SYSTEM
 - PRIVATE ROAD
 - PUBLIC ROAD (NOT OPEN)
 - ADJACENT COUNTY ROAD
 - RAILROADS
 - 2015 CAPE SEAL OR ULTRA TRIM

LINCOLN TOWNSHIP
 BERRIEN COUNTY
 ROAD COMMISSION
 BENTON HARBOR, MICHIGAN
 BRIAN G. BERNDT, COUNTY HWY ENGINEER
 No. 12 C

R. 19 W.

See Sheet 12-E

Village of Stevensville



- LEGEND**
- INTERSTATE HIGHWAY
 - STATE HIGHWAY
 - COUNTY ROAD, PRIMARY SYSTEM
 - COUNTY ROAD, LOCAL SYSTEM
 - PRIVATE ROAD
 - PUBLIC ROAD (NOT OPEN)
 - ADJACENT COUNTY ROAD
 - RAILROADS
 - 2015 CAPE SEAL OR ULTRA THIN

LINCOLN TOWNSHIP

BERRIEN COUNTY
ROAD COMMISSION
BENTON HARBOR, MICHIGAN

BRIAN O. BERNDT, COUNTY HWY ENGINEER

No. 12 D



T. 5 S.

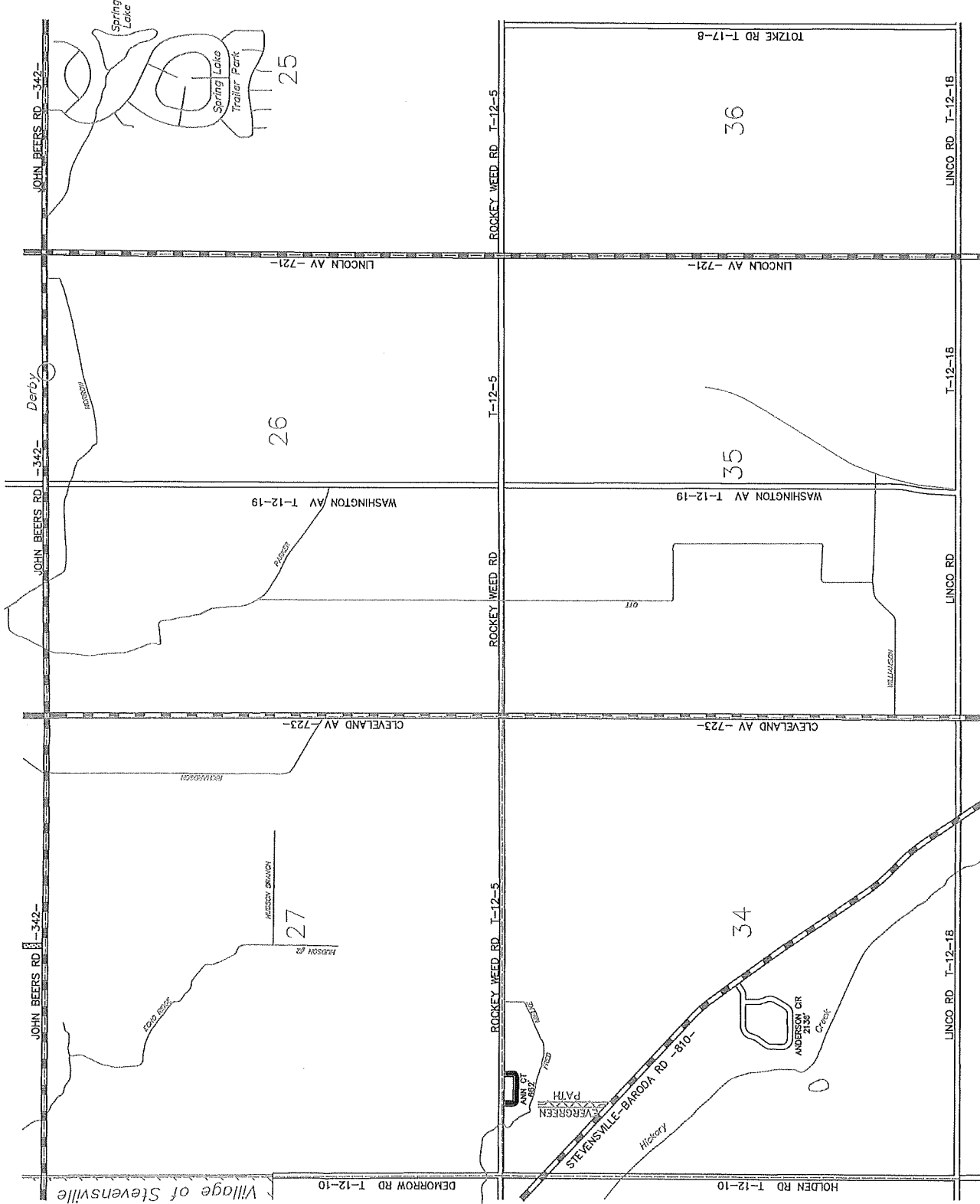
LEGEND

- INTERSTATE HIGHWAY
- STATE HIGHWAY
- COUNTY ROAD; PRIMARY SYSTEM
- COUNTY ROAD; LOCAL SYSTEM
- PRIVATE ROAD
- PUBLIC ROAD (NOT OPEN)
- ADJACENT COUNTY ROAD
- RAILROADS
- 2015 CAPE SEAL OR ULTRA THIN

LINCOLN TOWNSHIP

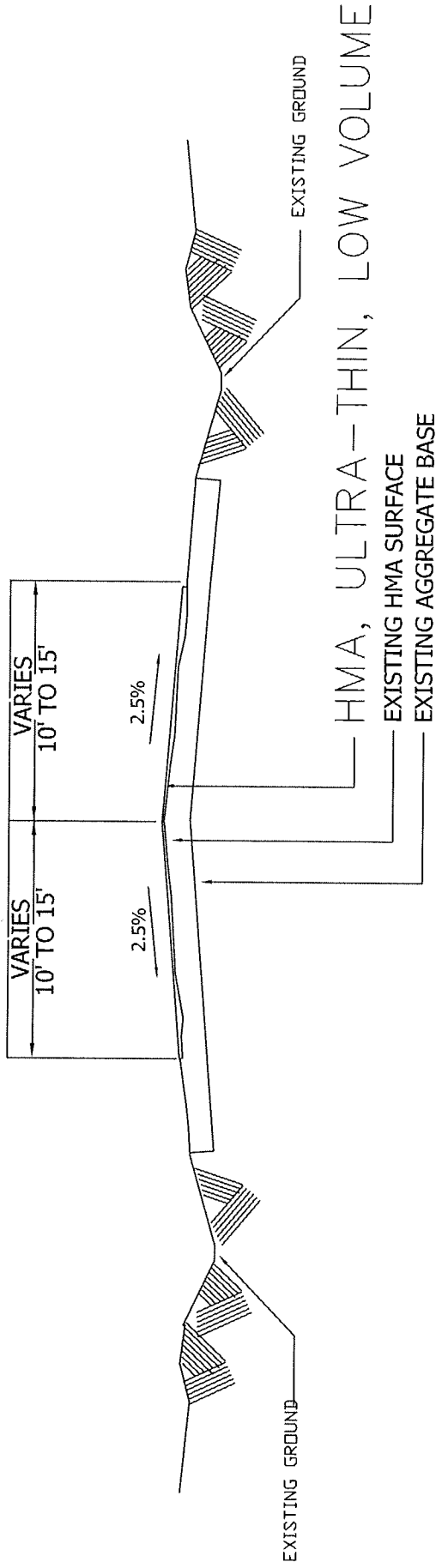
BERRIEN COUNTY
 ROAD COMMISSION
 BENTON HARBOR, MICHIGAN
 BRIAN G. BERNDT, COUNTY HWY ENGINEER

No. 12 E

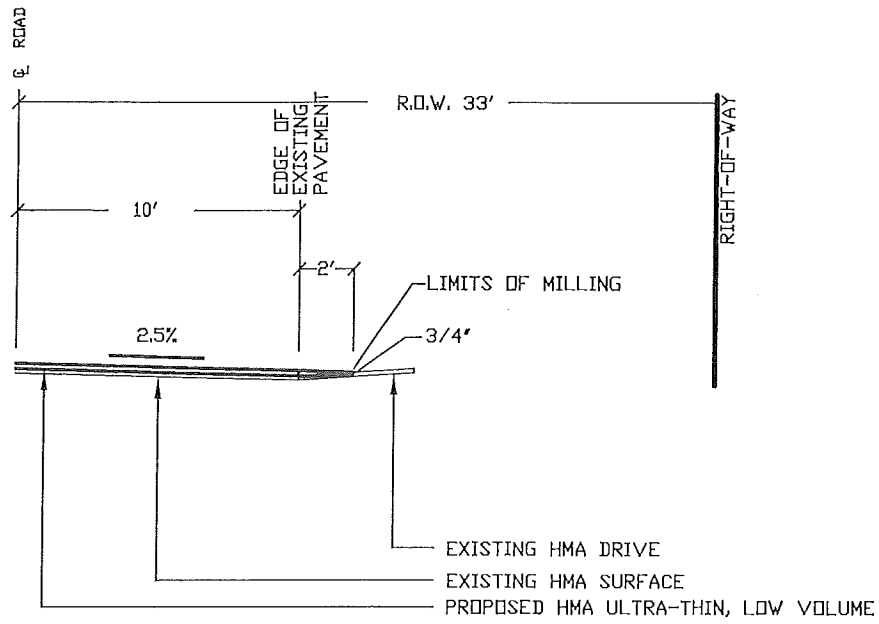


R. 19 W.

TYPICAL SECTION SUBDIVISION STREETS

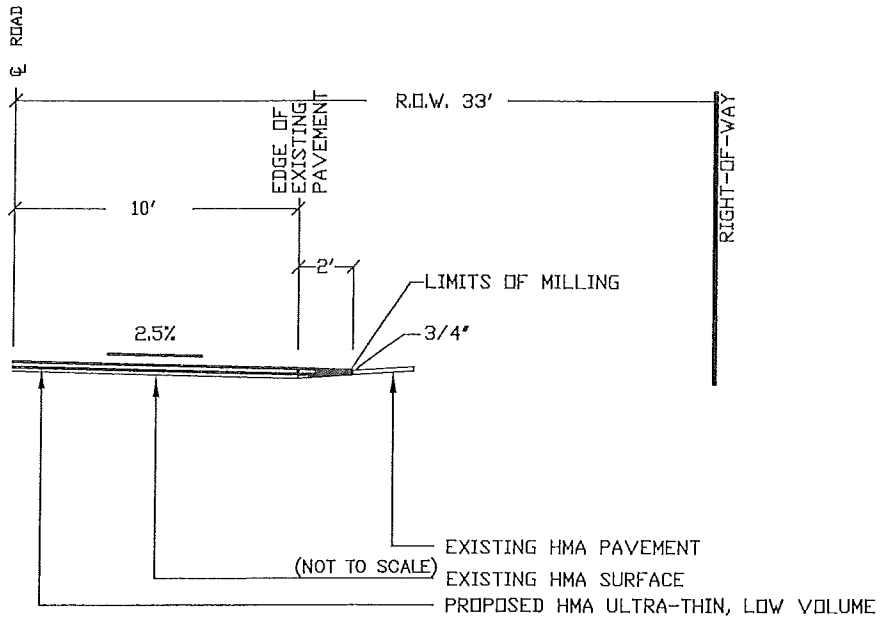


* ANN COURT TO GET 2 LIFTS OF HMA, ULTRA -THIN, LOW VOLUME

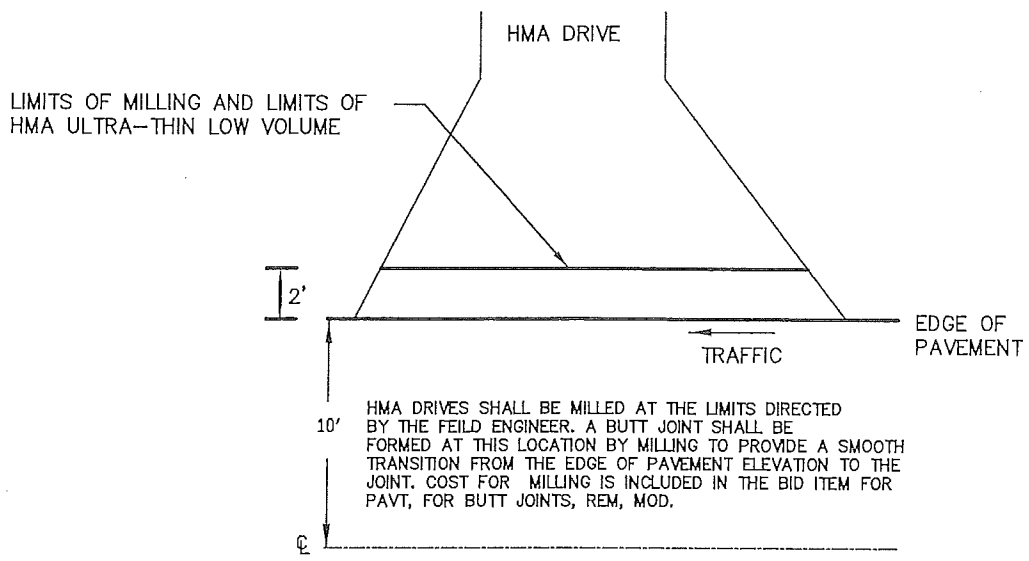


TYPICAL SECTION FOR BUTT JOINT REM (MILLING) AT DRIVES

(NOT TO SCALE)



TYPICAL SECTION FOR MILLING ALONG INTERSECTION

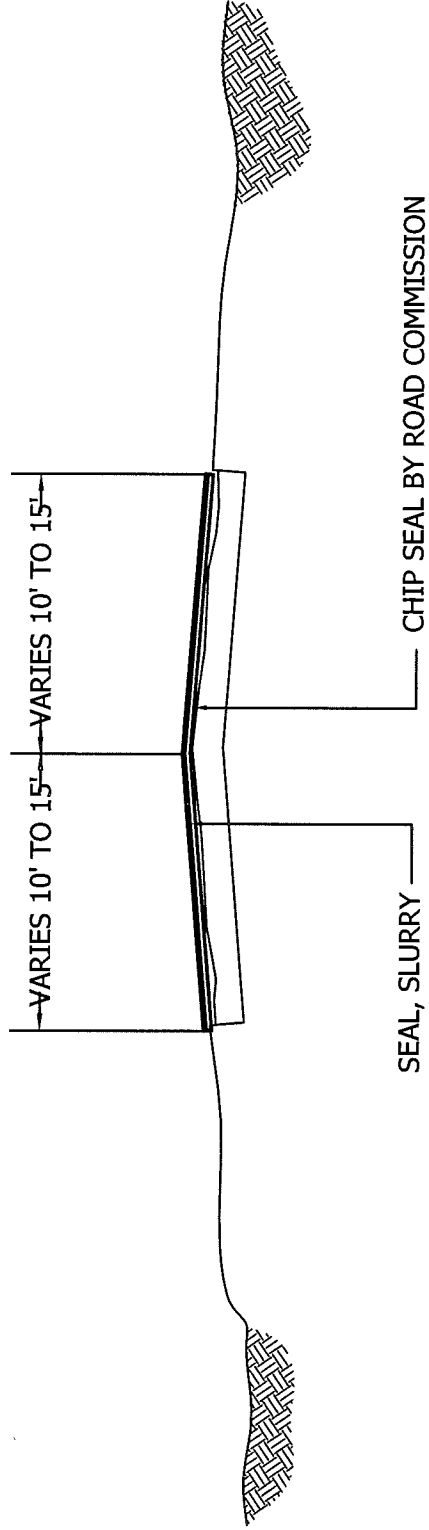


PAVED DRIVEWAY

GENERAL NOTES:

1. CLEANING OF EXISTING PAVEMENT PRIOR TO PAVING SHALL BE INCLUDED WITH HMA ITEMS.
2. ADJUSTMENT OF SANITARY SEWER MANHOLE COVERS AND WATER VALVE MANHOLE COVERS WILL BE PAID FOR AS DR STRUCTURE COVER, ADJ, CASE 1. CAN USE AMERICAN HIGHWAY PRODUCTS RISER OR ENGINEER APPROVED EQUAL

ALTERNATE BID TYPICAL SECTION SUBDIVISION STREETS



NOTE: SEAL, SLURRY ALL TURN AROUNDS AND INTERSECTION RADIUS WITHIN THE PROJECT LIMITS AS DIRECTED BY THE ENGINEER. QUANTITIES FOR THIS WORK ARE INCLUDED IN SEAL, SLURRY, SQUARE YARD.

THE UNIT PRICE FOR SEAL, SLURRY INCLUDES THE COST OF CLEANING EXISTING PAVEMENT SURFACE, APPLYING A BOND COAT, PLACING THE MIX AND TRAFFIC CONTROL; INCLUDING TRAFFIC CONTROL TO COMPLETE CORRECTIVE ACTION.

BERRIEN COUNTY ROAD COMMISSION

NOTICE TO BIDDERS

TESTING OF MATERIALS

All material must be tested and approved in accordance with Section 105 of the 2012 Standard Specifications, or as provided herein, before they enter into the construction of the project. Testing may be performed by the Local Agency or a Commercial Testing Company. Cost of testing shall be the responsibility of the Local Agency and may be eligible for federal participation.

A complete list of all tests must be on file in order to obtain Federal Aid on the construction.

INSURANCE

The Contractor shall provide for and in the behalf of the State, the Commission, the Department, its employees, and all agencies specifically named below and their interests may appear, Owner's Protective Public Liability Insurance. Such insurance shall provide coverage and limits the same as the Contractor's Public Liability Insurance.

The agencies are the Board of County Road Commissioners of the County of Berrien, and the Berrien County Road Commission.

BERRIEN COUNTY ROAD COMMISSION

HOLD HARMLESS

This Agreement made this _____ day of _____, 2015 by and between the Berrien County Road Commission and the Board of County Road Commissioners of the County of Berrien (hereinafter referred to as the BOARD) and

_____ (hereinafter referred to as the CONTRACTOR).

Said Contractor hereby agrees to undertake the following work in the status of independent contractor performing the following operations:

2015 LINCOLN TOWNSHIP SUBDIVISION STREETS ULTRA THIN PROGRAM OR SLURRY SEAL PROGRAM – Project No. 15016

Said Contractor shall at all times exercise extreme care and shall assume any and all liability for bodily injury, death or property damage arising out of the above stated operation or by anyone else acting in concert or under the control or direction of said Contractor, and will indemnify and hold harmless the Berrien County Road Commission, its Commissioners, employees, attorneys and agents for any and all claims for bodily injury, death or property damage arising out of this agreement.

It is also agreed while engaged in such operation, that the Contractor shall maintain insurance, naming the Board of Berrien County Road Commissioners, the Berrien County Road Commission; their Officers, Agents and Employees as an additional named insured with policy limits of:

Bodily Injury and Property Damage Liability:

Each Occurrence	\$1,000,000
Aggregate	\$2,000,000

Statutory Workmen's Compensation Insurance

Additionally said Contractor shall furnish to the Board a certificate of insurance providing above requested limits.

It is also agreed if the Board is involved in any litigation arising out of said operation, that the Contractor will indemnify and hold harmless the Board for any and all legal fees or cost incurred by the Board in defense of said Board.

WITNESSED BY:

Contractor

Berrien County Road Commission

BERRIEN COUNTY ROAD COMMISSION

BIDDERS GENERAL QUESTIONNAIRE

Please give the following information regarding your proposal for this bid:

1. Number of years experience in this work? _____

2. List number and types of equipment to be used if awarded this bid:

1. _____
2. _____
3. _____

3. List the municipalities that you have contracted with during the past 10 years for this type work:

1. _____
2. _____
3. _____
4. _____

4. Name of your bank and other financial reference: _____

5. Name of your insurance carrier:

PL/PD/BI Insurance Carrier: _____

Workmen's Compensation: _____

6.

Comments: _____

Signed: _____

Title: _____

Name and Address of Firm:

Date: _____

**BERRIEN COUNTY ROAD COMMISSION
2015 ULTRA THIN PROGRAM OR SLURRY SEAL PROGRAM**

PROPOSAL

Date _____

Board of County Road Commissioners of the County of Berrien,
2860 E. Napier Avenue, Benton Harbor, Michigan 49022-0768

Gentlemen:

The undersigned has examined the plans, specifications, and location of the work described herein and is fully informed as to the nature of the work and the conditions relating to its performances and understands that the quantities shown in the estimate are approximate only and are subject to either increase or decrease; and hereby proposes to furnish all necessary machinery, tools, apparatus and other means of doing the work, do all the work, furnish all the materials except as otherwise specified herein, and, for the unit prices named in the accompanying unit price schedule, to complete the work in strict accordance with the plans and specifications therefore.

The undersigned further proposes to do such extra work as may be ordered by you, prices for which are not included in the itemized bid, compensation therefore to be made on the basis agreed upon before such extra work is begun.

The undersigned agrees to begin work within ten (10) days after being notified to do so, and to complete all items of work **WITHIN 20 WORKING DAYS AND BY SEPTEMBER 5, 2015.**

Signed _____

By _____

Post Office of Bidder _____

In case the bidder is a co-partnership, each member must sign this proposal.
In case the bidder is a Corporation this proposal must be executed by its duly authorized officials in accordance with its articles of incorporation and a certified copy of such articles must be attached hereto.

BERRIEN COUNTY ROAD COMMISSION

BENTON HARBOR, MICHIGAN 49022

2860 East Napier Avenue

TELEPHONE 925-1196

TOLL FREE FROM 269 AREA 1-800-442-0734

PROJECT: 2015 LINCOLN TOWNSHIP ULTRA THIN PROGRAM OR SLURRY SEAL PROGRAM

ITEMIZED UNIT PRICE SCHEDULE

QUANTITY	ITEM OF WORK	UNIT PRICE BID	AMOUNT
	LINCOLN TOWNSHIP SUBDIVISION STREETS		
	ULTRA THIN BID		
1 Lsum	Minor Traffic Devices		
1 Lsum	Flag Control		
128 Sft.	Sign, Type B, Temp, Furn		
128 Sft.	Sign, Type B, Temp, Oper		
49,525 syd	HMA Ultra Thin, Low Volume		
7950 syd	Pavt for Butt Joints, Rem		
70 Ea	Dr Structure Cover, Adj, Case 1		
20 Ton	Hand Patching		
	TOTAL OF ULTRA THIN BID	\$	

Signed

Bidder

Date

BERRIEN COUNTY ROAD COMMISSION

BENTON HARBOR, MICHIGAN 49022

2860 East Napier Avenue

TELEPHONE 925-1196

TOLL FREE FROM 269 AREA 1-800-442-0734

**PROJECT: 2015 LINCOLN TOWNSHIP ULTRA THIN PROGRAM OR SLURRY
SEAL PROGRAM**

ITEMIZED UNIT PRICE SCHEDULE

QUANTITY	ITEM OF WORK	UNIT PRICE BID	AMOUNT
ALTERNATE BID			
LINCOLN TOWNSHIP SUBDIVISION STREETS			
48,300 sq yd	Seal, Slurry		
1 Lsum	Minor Traffic Devices		
1 Lsum	Flag Control		
128 Sft.	Sign, Type B, Temp, Furn		
128 Sft.	Sign, Type B, Temp, Oper		

TOTAL OF SLURRY SEAL ALTERNATE BID \$ _____

Signed

Bidder

Date