

INVITATION TO BID

BID DATE: 04/02/2020

PLEASE REFER TO BID NO. 2020-039

**QUOTE NOT LATER THAN: 04/15/2020 BY 4:00 PM
(EST)**

TO:
VENDOR NAME:
ADDRESS:

FROM:
PURCHASING DEPARTMENT
COUNTY OF BERRIEN, MICHIGAN
ADMINISTRATION CENTER
701 MAIN STREET
ST. JOSEPH, MICHIGAN 49085

CONTACT:
TELEPHONE #:
EMAIL:

**PLEASE INDICATE "BID NO. 2020-039" ON OUTSIDE OF SEALED ENVELOPE TO INSURE PROPER
BID PLACEMENT. DELIVERY REQUIREMENTS: AS PER SPECIFICATIONS**

*The Berrien County Board of Commissioners reserves the right to reject any and all bids or make any deviations
deemed in the best interest of Berrien County.*

Quality: All materials/services furnished must be the best of their respective kinds (unless otherwise specified) and will be subject to our inspection and approval after delivery. If materials are rejected it will be held for disposition at your risk and expense.

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
	<u>REQUEST FOR BID ON THE FOLLOWING:</u>		
	PAVEMENT REJUVENATOR		
	PLEASE SEE ATTACHED SPECIFICATIONS		
	<u>TOTAL COST OF PROJECT :</u>		
	<u>PLEASE SEND TWO (2) COPIES OF BID PROPOSAL</u>		

QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
	<p>PURSUANT TO MICHIGAN PUBLIC ACT 517 OF 2012, AN IRAN-LINKED BUSINESS IS NOT ELIGIBLE TO SUBMIT A BID FOR THIS RFP. FURTHER, EACH BID SUBMISSION MUST INCLUDE WRITTEN CERTIFICATION BY THE BIDDER THAT THE BIDDER IS NOT AN IRAN LINKED BUSINESS (SEE ATTACHED FORM). A BID SUBMISSION WITHOUT THE REQUIRED WRITTEN CERTIFICATION MAY BE REJECTED AS INCOMPLETE AND VIOLATIVE OF LAW. A SUSTAINED DETERMINATION BY THE COUNTY THAT A BIDDER HAS SUBMITTED A FALSE CERTIFICATION OF BEING AN IRAN LINKED BUSINESS MAY RESULT IN THE CANCELLATION OF AN EXISTING CONTRACT, A CANCELLATION OF INTENT TO ENTER INTO A NEW CONTRACT, AND/OR REPORTING OF THE BIDDER TO THE STATE ATTORNEY GENERAL, AND POSSIBLE FINES AND COSTS, AND BAR FROM FURTHER BIDDING ON COUNTY RFP'S FOR AN ADDITIONAL 3 YEARS, AS PROVIDED UNDER P.A. 517 OF 2012.</p> <p>MEMBER OF HPS (HOSPITAL PURCHASING SERVICES), STATE OF MICHIGAN MIDEAL PURCHASING PROGRAM, AND NATIONAL JOINT POWERS ALLIANCE</p> <p>ANY QUESTIONS REGARDING BID SPECIFICATIONS, PLEASE CONTACT KEVIN STACK AT 269-925-1196 EXT. 4421 OR kstack@bcroad.org</p> <p>ALL OTHER QUESTIONS REGARDING THE BID PROCESS, PLEASE CONTACT THE PURCHASING DEPT. AT 269-983-7111 EXT. 8020</p>		

Cheri Vance

CHERI VANCE
 ACCOUNTING COORDINATOR
 PHONE: 269-983-7111 EXT. 8020
cvance@berriencounty.org
 FAX #: 269-982-8668

BIDDERS NAME: _____

BIDDERS PHONE NUMBER: _____

BID DATE: _____



BERRIEN COUNTY

ROAD DEPARTMENT

PROPOSAL AND SPECIFICATIONS

FOR

PAVEMENT REJUVENATOR

**Purchasing Department
County of Berrien, Michigan
Administration Center
701 Main Street
Saint Joseph, MI 49085
1-269-983-7111
www.berriencounty.org**

BERRIEN COUNTY ROAD DEPARTMENT

PROGRESS CLAUSE

Page 1 of 1

BCRD/KAS

01/12/2018

The Owner anticipates that construction can begin no earlier than 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 formal notice of award by the Department.

The Contractor shall prepare and submit a complete, detailed, and signed MDOT Form 1130, Progress Schedule, according to 12SP-101A.

The Progress Schedule shall include, at minimum, the controlling work items for the completion of the project, as well as the planned dates or work days that these work items will be controlling operations. All contract dates including open to traffic, project completion, interim completion and any other controlling dates in the contract, must be included in the progress schedule.

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

The Project shall be completed in its entirety including final site restoration and clean-up on or before **October 26th, 2020**

After award and prior to the start of work, the Contractor must attend a preconstruction meeting with the Engineer. The Engineer will determine the day, time and place for the preconstruction meeting. The meeting will be conducted after project award and may be rescheduled if there are delays in the award of the project.

The named subcontractor(s) for Designated and/or Specialty Items, as shown in the Proposal, should attend the preconstruction meeting if such items materially affect the work schedule.

Liquidated Damages shall be assessed in accordance with Section 108.10 of the 2012 Standard Specifications for Construction.

BERRIEN COUNTY ROAD DEPARTMENT

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 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 Department 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 Department shall have the right to require the force and equipment as the Department shall deem necessary to bring the work up to the Progress Schedule; and in case of the Contractor's neglect to do so, the Department 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 DEPARTMENT

SUPPLEMENTAL SPECIFICATIONS (CONT'D)

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 Board's 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 DEPARTMENT

TITLE VI

The Berrien County Road Department, in accordance with Title VI of Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and 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.

TITLE VI CONTRACT REQUIREMENTS:

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the “contractor”) agrees as follows:

1. **Compliance with Regulations:** The contractor shall comply with the Regulations relative to non-discrimination in Federally-assisted programs of the Department of Transportation, Title 49, code of Federal Regulations, Part 21 as they may be amended from time to time, (hereinafter referred to as the Regulations), which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor shall not participate either directly or indirectly in the discrimination prohibited by section 21.5 of the Regulation, including employment practices when the contractor covers a program set forth in Appendix B of the Regulations.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations either by competitive bidding or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the contractor of the contractor’s obligations under this contract and the Regulations relative to non-discrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor shall provide all information and reports required by the Regulations, or directives issued pursuant thereto, and shall permit access to its books, records, accounts, other sources of information and its facilities as may be determined by the **BERRIEN COUNTY ROAD DEPARTMENT** to be pertinent to ascertain compliance with such Regulations or directives. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor shall so certify to the State highway department, or the Federal

BERRIEN COUNTY ROAD DEPARTMENT

TITLE VI

Highway Administration as appropriate, and shall set forth what efforts it has made to obtain the information.

5. **Sanctions for Non-compliance:** In the event of the contractor's non-compliance with the non-discrimination provisions of this contract, the **BERRIEN COUNTY ROAD DEPARTMENT** shall
6. impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - (a) Withholding of payments to the contractor under the contract until the contractor complies, and/or
 - (b) Cancellation, termination or suspension of the contract, in whole or in part.
7. **Incorporation of Provisions:** The contractor shall include the provisions of paragraphs (1) through (6) in every subcontract, including procurement of materials and leases of equipment, unless exempt by the Regulations, or directives issued pursuant thereto. The contractor shall take such action with respect to any subcontract or procurement as the **BERRIEN COUNTY ROAD DEPARTMENT** may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that, in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or supplier as a result of such direction, the contractor may request the **BERRIEN COUNTY ROAD DEPARTMENT** to enter into such litigation to protect the interests of the County, and, in addition, the contractor may request the State highway department to enter into such litigation to protect the interests of the State and/or the United States to enter into such litigation to protect the interests of the United States.

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. §4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);

BERRIEN COUNTY ROAD DEPARTMENT

TITLE VI

- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 CFR Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 4 71, Section 4 7123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189) as implemented by Department of Transportation regulations at 49 C.P.R. parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to -ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

BERRIEN COUNTY ROAD DEPARTMENT

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.

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 Commissioners of The County of Berrien, and the Berrien County Road Department.

BERRIEN COUNTY ROAD DEPARTMENT

SPECIAL PROVISION FOR MAINTAINING TRAFFIC

PAGE 1 OF 2

GENERAL REQUIREMENTS

Traffic shall be maintained by the Contractor throughout the project in accordance with the requirements of Section 104.11, 812 and 922 of the 2012 MDOT Standard Specifications for Construction and as herein specified. The Contractor is advised that the 2011 Edition, as amended, of the Michigan Manual of Uniform Traffic Control Devices is hereby established as governing all work in connection with traffic control devices, barricade lighting, etc., required on this project. The Contractor shall coordinate this work with other contractors performing work within the construction influence area or adjoining areas to avoid conflicts in the maintenance of traffic, construction signing and the orderly progress of work.

PROJECT – GENERAL

Any utility trenches across commercial drives shall be maintained by the use of existing or salvaged materials and costs associated with this work included in Minor Traffic Devices.

Necessary emergency work performed by the County due to the negligence of the Contractor will be billed against the Contractor.

Walks, driveways and entrances to building shall not be unnecessarily blocked. Vehicular access shall be maintained to all properties designated by the Engineer at all times. Construction shall be completed in such a manner as to maintain the required entrance width for traffic at all times. When partial widths of new pavement are available to traffic, access to drives shall be provided immediately.

BERRIEN COUNTY ROAD DEPARTMENT

SPECIAL PROVISION FOR MAINTAINING TRAFFIC

PAGE 2 OF 2

TRAFFIC RESTRICTIONS

Night work will not be allowed.

Work will not be allowed on holiday weekends, including Labor Day and the 4th of July, as directed by the engineer. Saturday work other than holiday weekends will be allowed.

Two-way traffic shall be maintained for the duration of the project. Lane Closures shall comply with MDOT Maintaining Traffic Typical M0140a.

TRAFFIC CONTROL DEVICES

All traffic control devices and their usage shall be in accordance with provisions in the 2011 Edition, as amended, of the Michigan Manual of Uniform Traffic Control Devices (MMUTCD), as amended. All construction signs, unless otherwise noted, shall be 4' x 4', mounted at a bottom height of 5 feet and placed as indicated on the plans. When signs are no longer applicable, they shall be removed or have their legend completely covered with plywood or approved equal, if the posts are driven. Signs can no longer be mounted on Type III Barricades. Signs near Type III Barricades shall have separate supports.

Reflectorized strips are required on both sides when barricades are facing traffic in both directions.

Channelizing devices shall be used to separate traffic from the work and if directed by the Engineer or shown on the plan sheets to separate opposing traffic lanes.

Plastic cones may be used as channelizing devices only during day light hours. If plastic cones are used, they shall be a minimum of 28 inches in height and placed as directed by the Engineer. Metal drums or metal barrels shall not be used as traffic control devices.

All traffic control devices shall meet Traffic Special Detail WZD-125-E.

BERRIEN COUNTY ROAD DEPARTMENT

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 DEPARTMENT

PROJECT SPECIFICATIONS FOR SPECIAL PROVISIONS

Description. This item shall consist of providing and applying the Bituminous Seal.

Materials. The emulsion concentrate, in the undiluted state, shall have the following properties:

Saybolt furol viscosity: 77°F (25°C) 20-100 seconds
Residue by distribution or by evaporation: 57 percent, minimum
Sieve test: 0.2 percent, maximum
pH, cationic: 2 to 6.5

The emulsion concentrate, when diluted in the proportion of one part of concentrate to one part of hot water, by volume and ready to apply, shall have the following properties:

Saybolt furol viscosity: 77°F (25°C), 10-50 seconds
Residue from Distillation, or Evaporation: 28 to 42 percent, minimum
Sieve test: 0.1 percent, maximum
Pumping stability test: pass
Hot water temperature at or above 100 degrees

Tests on Residue from Distillation, or Evaporation:

Viscosity ast 275°F (135°C) ASTM D-4402 1750 cts max.
Solubility in 1,1,1 trichloroethylene ASTM D-2042 97.5% min.
Penetration ASTM D-5 50 dmm max.
Asphaltenes ASTM D-2007 15% min.
Saturates ASTM D-2007 15% max.
Polar Compounds ASTM D-2007 25% min.
Aromatics ASTM D-2007 15% min.

1. pH may be used in lieu of the particle charge test which is sometimes inconclusive in slow setting, bituminous emulsions.
2. Pumping stability is tested by pumping 1 pint, (475 ml) of Bituminous Seal diluted 1 part concentrate to 1 part water, at 77°F (25°C), through a 1/4-inch gear pump operating 1750 rpm for 10 minutes with no significant separation or coagulation.

BERRIEN COUNTY ROAD DEPARTMENT

PROJECT SPECIFICATIONS FOR SPECIAL PROVISIONS

The emulsion base residue shall contain not less than 18 percent gilsonite, and will not contain any tall oil pitch. It shall be compatible with asphalt concrete and have a 5-year, minimum, proven performance record under proposed application conditions.

The emulsion *manufacturer* and *contractor* shall each have a minimum of 5 years' experience producing and installing the fog seal emulsion product.

The Contractor shall furnish manufacturer's certification that the material is; the type, grade, and quality specified for each load of bituminous material delivered. The certification shall show the shipment number, refinery, consignee, destination, contract number, and date of shipment including an authorized supplier employee signature. Contractor shall submit samples of diluted, ready-to-apply bituminous material as requested by owner.

SAND-FRICTION MATERIAL. The sand or friction material shall be a dry, clean, dust-free slag or sand with a Mohs hardness of 6-8. The material shall be angular and black in color.

The sanding material shall be copper slag or similar angular, black abrasive, and shall meet the following gradation analysis per ASTM D 451

<u>Sieve Size</u>	<u>% Retained by Weight</u>
No. 16	0-1
No. 20	0-1
No. 30	5-20.
No. 40	40-65
No. 50	20-40
No. 60	0-5
No. 100	0-3
Pan	0-0.2

1. Construction Methods.

- a. **Mixing.** The ready to apply fog seal emulsion seal material shall be obtained by blending the emulsion concentrate and clean water. Mix one part water into one part emulsion concentrate by volume, or two parts emulsion, one part water as directed

by owner.

- b. **Pavement Preparation.** Sweep accessible pavement surfaces prior to applying the fog seal emulsion with a power broom
- c. **Equipment.** The fog seal emulsion may be applied with modified asphalt distributors. The distributor shall be in good working order and contain no contaminants or diluents in the tank, pump, bars or hoses. Spreader bar tips must be clean, free of burrs, and of a consistent size to maintain an even distribution of the fog seal material. Any type of tip or pressure source is suitable that will maintain a predetermined flow rate and constant pressure during the application process. The emulsion pump shall maintain a constant flow through the nozzles during the application process regardless of the speed of the truck.
- d. The distributor truck shall be equipped with a 12-foot (3.6 m), minimum, and spreader bar with individual nozzle control. It shall be capable of specific application rates in the range of 0.05 to
- e. 0.25 gallons per square yard (0.15 to 0.80 liters per square meter). These rates shall be computer-controlled rather than mechanical. It shall have an easily accessible thermometer that constantly monitors the temperature of the emulsion material. For confined spaces a mini distributor with a 7' spray bar, and 22 spray nozzles may be utilized.
- f. In the event there is a temperature problem the distributor must be equipped to effectively heat and mix the emulsion while circulating the emulsion to the required temperature prior to application. Heating and mixing shall be done in accordance with the manufacturer's recommendations. Care shall be taken not to damage the fog seal by over heating or over mixing the material. Contractor shall replace all fog seal emulsion applied to pavements that are determined to be damaged by incorrect handling, mixing, heating or application procedures by the contractor at no cost to the owner.
- g. Friction materials shall be added to the fog seal emulsion by means of a drop-type or broadcast sander mounted on the rear of the distributor. Application shall spread friction material evenly across the full width of the spray bar and occur prior to the emulsion breaking. Driver must be able to adjust volume and area of distribution during the application process.
- h. **Weather Limitations.** The fog seal emulsion shall not be applied to wet pavement surfaces, during rainy or damp weather, or when rain is anticipated within four hours after application is completed. Care shall be taken when applying the emulsion on extremely windy days to prevent drift onto adjacent surfaces or vehicles.
- i. **Application.** The fog seal shall be applied using equipment as described in section 3.4 and in accordance with the manufacturer's recommendations. Apply the emulsion only when the existing surface is clean and dry. Apply dilute bituminous emulsion at the target rate of 0.13 gallons per square yard, but not less than 0.10 nor more than 0.18 gallons per square yard.

- j. **Sanding – Friction Materials.** The sanding shall be done immediately after application of the fog seal emulsion. The speed of the distributor shall be such that the sanding material shall be applied before the fog seal begins to break. Apply sand at the rate of 0.50 to 0.75 pounds per square yard.

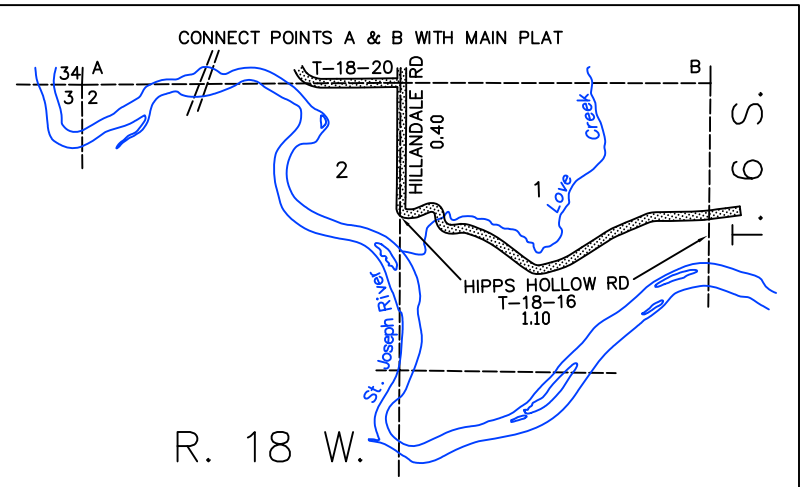
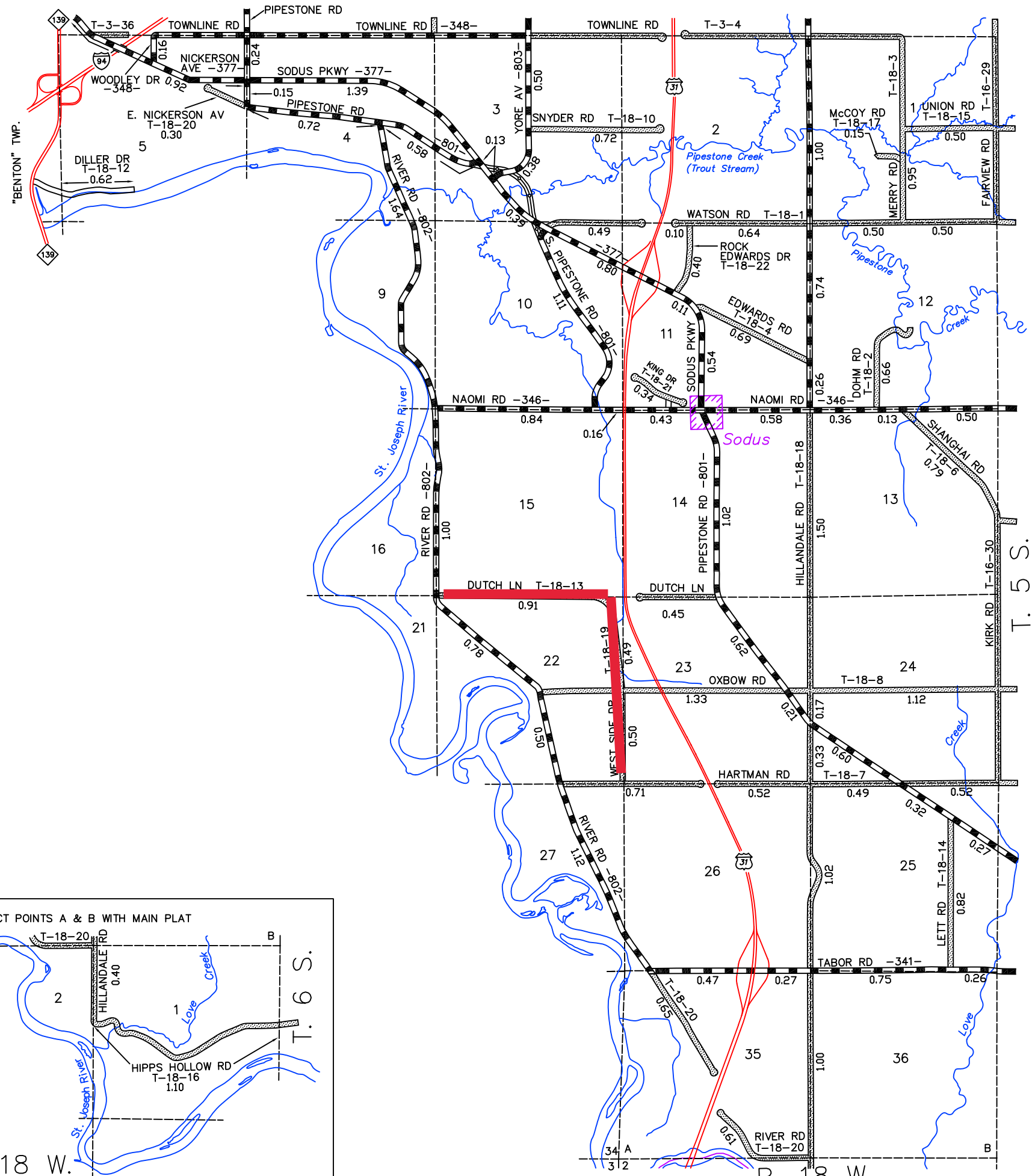
2. Method of Measurement.

- a. **Bituminous Fog Seal Emulsion.** The quantity of bituminous fog seal to be paid for will be the number of square yards applied and accepted. Water added to bituminous concentrate will not be measured for payment.

3. Basis of Payment.

- a. **Bituminous Fog Seal Emulsion.** Payment will be made at the contract unit price per square yard. This price will include preparation of the pavement surface, the bituminous emulsion concentrate, and sand. This price will be full compensation for furnishing all materials, labor, equipment, tools, and incidentals necessary to complete the item.

Year	Road Class	Road	Termini	Township	District	Road Miles / Quantity	Treatment	Road Width	Square Yardage
2020	Local	Dutch Lane & West Side Drive	River Rd. to Hartman Rd.	Sodus	42	1.90	Pavement Rejuvenator	22.000	24,523
2020	Local	Shanghai Rd.	Kirk Rd. to Naomi Rd.	Sodus	42	0.79	Pavement Rejuvenator	24.000	11,123
						2.69			35,646



- LEGEND**
- INTERSTATE HIGHWAY
 - STATE HIGHWAY
 - COUNTY ROAD; PRIMARY SYSTEM (PAVED)
 - COUNTY ROAD; LOCAL SYSTEM (PAVED)
 - COUNTY ROAD; LOCAL SYSTEM (UNPAVED)
 - PRIVATE ROAD
 - PUBLIC ROAD (NOT OPEN)
 - ADJACENT COUNTY ROAD
 - RAILROADS

PRIMARY ROAD SYSTEM IS 22.95 MILES
 LOCAL ROAD SYSTEM IS 22.99 MILES

SODUS TOWNSHIP

**BERRIEN COUNTY
 ROAD DEPARTMENT**
 BENTON HARBOR, MICHIGAN

KEVIN STACK, COUNTY HWY ENGINEER

SCALE: 1"=2000' DATE: January, 2020

No. 18

**SWORN AND NOTARIZED AFFIDAVIT OF COMPLIANCE
IRAN ECONOMIC SANCTIONS ACT
Michigan Public Act No. 517 of 2012**

All bidders must submit the following certification statement in compliance with Public Act No.517 of 2012 (the "Iran Economic Sanctions Act") and attach this form to the bid; bidders may file a certification statement with the County of Berrien that confirms compliance for all bids submitted in fiscal year 2020. By submitting this form to the County of Berrien, you are confirming that you are in compliance with the Act in relation to the submitted bid(s). **The County of Berrien shall not accept a bid unless, and until, this sworn and notarized certification statement is submitted to the County of Berrien either as an attachment to a given bid, or, as filed with the County of Berrien to confirm compliance during fiscal year 2020.** A certification statement filed with the County of Berrien for fiscal year 2020 will only be effective for bids submitted and dated from 1/1/20 to 12/31/20. The completed form will be kept on file in the purchasing department. The undersigned, the owner or authorized officer of _____ (the "Bidder"), pursuant to the compliance certification requirement provided in the County of Berrien Request for Proposal, hereby certifies, represents and warrants that the Bidder (including its officers, directors and employees) is not an "Iran linked business" within the meaning of the Iran Economic Sanctions Act, and that in the event the Bidder is awarded a contract as a result of the aforementioned Request for Proposal, the Bidder will not become an "Iran linked business" at any time during the course of performing the work or any services under the contract. The Bidder further acknowledges that any person who is found to have submitted a false certification is responsible for a civil penalty of not more than \$250,000.00 or 2 times the amount of the contract or proposed contract for which the false certification is made, whichever is greater, the cost of the County of Berrien's investigation, and reasonable attorney fees, in addition to the fine. Moreover, any person who submitted a false certification shall be ineligible to bid on a request for proposal for three (3) years from the date it is determined that the person has submitted the false certification.

BIDDER:

Name of Bidder

By: _____

Its: _____

Date: _____

STATE OF _____)

)ss

COUNTY OF _____)

This instrument was acknowledged before me on the _____ day of _____, 20____,

by _____.

, Notary Public

_____ County, _____

My Commission Expires: _____

Acting in the County of: _____

BERRIEN COUNTY ROAD DEPARTMENT HOLD HARMLESS

This Agreement made this _____ day of _____, 20__ by and between the Berrien County Road Department 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:

Pavement Rejuvenator

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 Department

BERRIEN COUNTY ROAD DEPARTMENT
Pavement Rejuvenator

PROPOSAL

Date _____

Board of County 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 **BY October 26th, 2020.**

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.

