



MONROE COUNTY
R O A D
COMMISSION

840 S. Telegraph Road • Monroe, Michigan 48161 • Phone: (734) 240-5102 • Fax: (734) 240-5101

REQUEST FOR PROPOSALS

FOR

2016 BRIDGE LOAD RATINGS

TIER 3

PROPOSALS DUE BY:
Tuesday November 8, 2016 at 12:00 p.m.

BOARD OF COUNTY ROAD COMMISSIONERS
OF THE COUNTY OF MONROE

Paul Iacoangeli, Chairman
Dan Minton, Vice Chairman
Bruce R. Stammer, Jr., Member
Stephen J. Pace, Member
Charles A. Londo, Member

**MONROE COUNTY ROAD COMMISSION
REQUEST FOR PROPOSALS**

The Monroe County Road Commission invites qualified firms to submit proposals for **2016 Bridge Load Ratings, Tier 3**. Proposals must be received no later than **12:00 p.m.** local time on **Tuesday November 8, 2016**.

Instructions and general conditions for the Request for Proposals may be downloaded from the Road Commission's website at www.mcrc-mi.org/bids.html .

BOARD OF COUNTY ROAD COMMISSIONERS
OF THE COUNTY OF MONROE, MICHIGAN

INSTRUCTIONS
and
GENERAL CONDITIONS

GENERAL INFORMATION

The Monroe County Road Commission (MCRC) is requesting proposals from qualified consulting engineering firms (Consultant) to perform bridge load ratings of MCRC owned structures.

PROJECT MANAGER

The Consultant's principal contact with the MCRC shall be through the Project Manager. The Project Manager for the MCRC is:

Frank Westenkirchner, P.E.
Monroe County Road Commission
840 S. Telegraph Road
Monroe, MI 48161
Phone: 734-240-5103
Email: FWestenkirchner@mcrc-mi.org

DUE DATE FOR PROPOSALS

Proposals, in PDF format, shall be submitted via email to FWestenkirchner@mcrc-mi.org prior to **12:00 p.m., local time, on Tuesday November 8, 2016.**

INQUIRIES

Any questions relative to the scope of services must be submitted by e-mail to the Project Manager at least five (5) working days prior to the due date and time specified above. All questions and answers will be placed on the MCRC website as soon as possible after receipt of the questions and at least three (3) days prior to the proposal due date. The names of vendors submitting questions will not be disclosed.

PROPOSAL REQUIREMENTS

1. Proposals for this project must be submitted electronically in PDF format.
2. Proposals must be assembled and saved as a single PDF file.
3. The proposal must be bookmarked to clearly identify the proposal sections. See the Proposal Format section below.
4. The PDF file must be 5 megabytes or smaller.
5. The PDF file must be submitted via email to FWestenkirchner@mcrc-mi.org.
6. Proposals must be received by the MCRC prior to the due date and time specified in this RFP.
7. Consultants are responsible for ensuring the MCRC receives the proposal on time.

PROPOSAL FORMAT

Please provide a proposal using the following format:

- A. **Understanding of Service.** Provide a brief description of the services to be provided. Other items that may be included in this section include innovations, quality assurance/quality control program, safety program, computer hardware and software, instrumentation, equipment and methods to be used during the performance of the services.
- B. **Qualifications of Team.** Provide a description of the structure of the project team, roles of the key personnel and an organization chart.
 1. **Resumes.** Provide current resumes of the project manager, qualified team leader(s) and field staff where applicable. Each resume shall be two pages or less.
- C. **Past Performance.** Provide references and examples of similar work performed for the MCRC or other governmental agencies.

D. **Pricing Documents.** Provide unit pricing for the services to be provided on the Schedule of Items form included in Appendix A.

E. **Location.** Provide location information for the Consultant and any subconsultants, if applicable

CONSULTANT SELECTION

The MCRC will review the proposals submitted and will select the Consultant considered most qualified to perform the services based on the proposals. The MCRC will utilize scoring criteria and point values for selecting the recommended Consultant. The following five criteria will be considered when scoring the proposals: understanding of service, qualifications of team, past performance, price and location.

TITLE VI ASSURANCE

The Monroe County Road Commission, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 USC 2000d to 2000d-4) and Title 49, Code of Federal Regulations, Part 21, as they may be amended from time to time, hereby notifies all bidders that it assures 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 race, color, national origin, gender, age, or disability in consideration for an award.

PROHIBITION OF DISCRIMINATION

In accordance with Act No. 453, Public Acts of 1976, the Consultant and subconsultants hereby agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex, height, weight, or marital status. Further, in accordance with Act No. 220, Public Acts of 1976 as amended by Act No. 478, Public Acts of 1980, the Consultant and subconsultants hereby agree not to discriminate against an employee or applicant for employment tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of a disability that is unrelated to the individual's ability to perform the duties of a particular job or position. A breach of the above covenants shall be regarded as a material breach of this contract.

INDEMNIFICATION, DAMAGE LIABILITY AND INSURANCE

The Consultant must carry insurance meeting the following requirements during the performance of work on the project(s).

- A. Indemnification. The Consultant must hold harmless, indemnify, defend and represent the Board and its officers, agents and employees against any and all claims for bodily injury or property damage, or any other claim arising out of performance of the work on this contract. The Consultant will not be responsible for claims that result from the sole negligence or willful acts of said indemnitee.
- B. Workers' Compensation Insurance. The Consultant must carry the necessary Workers' Compensation Insurance and submit a certification that it carries Workers' Compensation to the Board.
- C. Bodily Injury and Property Damage. The Consultant must carry adequate insurance, satisfactory to the Board, to afford protection against all claims for damage to public or private property and injuries to persons arising out of performance of the work. Copies of completed certificates must be submitted to the Board.

- 1. General Liability, Bodily Injury and Property Damage. The Consultant must provide the following minimum limits of property damage and bodily injury liability:

Bodily Injury and Property Damage Liability:

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

- 2. Automobile Liability, Bodily Injury and Property Damage. The Consultant must provide the following minimum limits of property damage and bodily injury liability:

Bodily Injury Liability:

Each Person	\$500,000
Each Occurrence	\$1,000,000

Property Damage Liability:

Each Occurrence	\$1,000,000
-----------------	-------------

Combined Single Limit for Bodily Injury and Property Damage Liability:

Each Occurrence	\$2,000,000
-----------------	-------------

- 3. Umbrella Policy. The Consultant may meet the requirements of above minimum limits of bodily injury and property damage liability through an umbrella policy.

- D. Additional Insured. The Bodily Injury and Property Damage Policy must include the following endorsements, verbatim:

“Additional Insured: The Board of County Road Commissioners of the County of Monroe, the Monroe County Road Commission and its officers, agents and employees.”

“Provide written notice ten (10) days prior to cancellation, expiration, termination or reduction in coverage for nonpayment of the premium and written notice thirty (30) days prior to cancellation, expiration, termination or reduction in coverage for all other reasons.”

- E. Professional Liability and Valuable Papers Insurance. The Consultant must provide the following minimum limits of professional liability and valuable papers insurance:

Professional Liability	\$1,000,000
Valuable Papers (On Premises)	\$50,000
Valuable Papers (Off Premises)	\$5,000

**SCOPE OF SERVICES
for
LOAD RATINGS
TIER 3**

LOCATION

The Monroe County Road Commission (MCRC) owned bridges to be load rated are located at various locations in Monroe County, Michigan. The specific bridge locations are noted on the Bridge Load Rating List located in Appendix A.

PURPOSE

The NBIS requires that all bridges be load rated for capacity in accordance with the AASHTO Manual for Bridge Evaluation (formerly the Manual for Condition Evaluation of Bridges). From CFR § 650.313. For the bridges identified in Bridge Load Rating List, a load rating will be performed by a qualified Consultant. There are several steps in the process of this work, and there may be a need for follow-up action.

The deliverable for each bridge inspection will be the "Load Rating Report". The report will have several components as noted below and will be attested to be accurate and complete under seal of a professional engineer.

MDOT PREQUALIFIED SERVICE VENDOR REQUIREMENTS

The Consultant shall be MDOT prequalified in the following service classifications:

- A. Design - Bridges: Safety Inspection
- B. Design - Bridges: Load Rating

DURATION & SCHEDULE

- A. Schedule of Dates and Milestones

The Consultant is required to develop a project schedule for the load rating of the bridges shown on the attached Bridge Load Rating List. The bridge load ratings contained in the Bridge Load Rating List shall be completed and entered into MiBridge by December 31, 2016. The project schedule must be submitted in the form of a list of when the bridges will be load rated, sorted by date.

Any changes to the schedule must be submitted to the MCRC Project Manager (PM) for approval prior to the change. Failure to progress in alignment with the schedule will be considered as failing to meet the terms of this contract and may result in the cancellation of the contract.

The Consultant must be prepared to begin the load rating work immediately after receiving the notice to proceed or an executed contract.

- B. Meetings

The Consultant is required to attend an initial pre-rating meeting, and a progress meeting and a project closeout meeting.

STAFF QUALIFICATION REQUIREMENTS

Each bridge on the list must be load rated by a Qualified Professional Engineer. The Consultant is required to have two Professional Engineers to complete the check the load ratings by the required dates.

Following are the minimum qualifications necessary for the required personnel. The staff qualifications must be documented with resumes submitted with the proposal.

- A. Consultant Project Manager

1. Registered Professional Engineer licensed to practice in the State of Michigan.
2. Minimum of five years of documented experience in the load rating and in-service safety inspections of bridges.
3. Completed the NHI # 130055 "Safety Inspection of In-Service Bridges" class within the last five years. If attended this class more than five years ago, he/she must have taken the NHI #130053A three day Bridge Inspection Refresher course within the preceding five years, or attended 24 hours of bridge inspection professional development in the preceding five years.

B. Load Rating Engineers

1. All load ratings shall be performed and independently checked by Registered Professional Engineers licensed to practice in the State of Michigan.
2. 5 years of design/inspection experience.
3. Knowledge and skills for proper evaluation.

C. Field Staff assisting the Load Rating Engineer(s)

1. A technical staff person with three years' experience in the inspection, design, or construction of bridges, or
2. A recent graduate engineer working at the staff engineer or entry level position.

DESCRIPTION OF THE WORK

Rate each bridge as to its safe load-carrying capacity in accordance with the AASHTO Manual (incorporated by reference, see §650.317). Post or restrict the bridge in accordance with the AASHTO Manual or in accordance with State law, when the maximum unrestricted legal loads or State routine permit loads exceed that allowed under the operating rating or equivalent rating factor.

For the purposes of this contract, each bridge load rating is broken into four phases: bridge file review, field review of the bridge, completion of the load ratings, and communication of the findings to Monroe County Road Commission. Each of these phases must be completed for successful completion of each bridge inspection.

A. Bridge File Review

In this phase of the work the Consultant will take several steps to review the documentation for each bridge and register on-line with MDOT to be assigned the forms to complete.

1. The Load Rating Engineer must register on-line with the MDOT MiBridge bridge data collection application at the "New Consultant/Inspector Registration". This person's name will appear on all load rating and inspection documents.
2. Find the Monroe County Road Commission's name and add it to the list on the right.
3. Review the bridge files and become familiar with the documentation on the structures and the respective load analysis for each bridge at the Monroe County Road Commission office.
4. Obtain paper copies of the previous inspection and load rating reports for use in the field.

B. Field Review

The Consultant will visit each bridge site to review that the information contained in the most recent safety inspection and as-bid/as-built/shop-drawing information is accurate for proper load rating of the structure.

1. Observations

Bridges requiring Load Rating calculations shall be inspected such that the load ratings shall account for the existing condition of the structure including any and all overlays and other dead loads.

The Consultant will observe all of the bridge components to determine which component would be the limiting factor in determining the maximum allowable safe load rating.

The Consultant must determine if the structure has been hit by a vehicle and damaged. If the damage has occurred since the last inspection, this damage must be documented with a description and photographs.

If there is an area of concern that requires traffic control or special inspection/testing, the Consultant must notify the Monroe County Road Commission PM with a "Request for Action" (RFA) form. See "Notification for Unusual Situations" below.

2. Notification for Unusual Situations

One of the primary reasons for field observation is to determine if there are any unusual circumstances or situations that could affect the continued safe operation of the bridge. The Consultant must determine whether the bridge can safely remain in service until the next inspection date. The Consultant must identify the cause of any unusual circumstances or situations and notify the Monroe County Road Commission PM within a time frame appropriate for the situation.

Communication of these situations is accomplished formally by using a RFA. The Consultant must properly complete this form and deliver it to the Monroe County Road Commission PM in a timely manner to ensure this communication takes place.

This form does not preclude advising the Monroe County Road Commission PM immediately by phone, or other means, of imminent circumstances. However, the Consultant is still obligated to complete the form. If the situation warrants, the form should be delivered on an expedited basis via email, and the Consultant must get confirmation of the delivery.

a. Suspect Conditions Requiring Further Consideration or Testing

The Consultant will perform the field review in the best manner possible on these structures and document any areas that need further consideration or testing.

The Consultant will inform the Monroe County Road Commission PM using a RFA form of the need to perform supplemental in-depth inspections on structures for such things as:

- Where there are many structural members in need of measurement for excessive loss of section, or need NDT for evaluation.
- Where there is a need to mechanically remove a lot of scale to get measurements.
- Where there is a need to coordinate with others, such as closing a lane, to closely examine the structure.

- If there is a crack or suspected crack in a structural steel component, the Consultant must clearly document this on paper with narrative and photographs.

If testing is to be performed in conjunction with the routine inspection, the Consultant must inform the Monroe County Road Commission PM prior to the testing so arrangements may be made to witness the process. The Monroe County Road Commission PM will not delay the Consultant in performing this work and will not require a return trip to perform the test.

C. Load Rating Analysis

Perform bridge load rating analysis in conformance with National Bridge Inspection Standards (NBIS) and MDOT policies and procedures. The load rating analysis consists of calculating the Federal Inventory, Federal Operating and Michigan Operating ratings, including load posting requirements and Michigan Overload Class.

1. The load rating analysis method shall be:

- a. Allowable Stress Rating for timber super structures.
- b. Load Factor Rating for all other structures built prior to 2011 and or not designed using the Load and Resistance Factor Design method.
- c. Load and Resistance Factor Rating for all structures built after 2010 or designed using the LRFD method.
- d. MDOT Corrugated Metal Pipe Analysis Spreadsheets for metal culverts and arches.

2. Qualifications of Load Rating Engineer

NBIS requires a registered professional engineer be responsible for load rating calculations.

3. Procedure

The procedures in the MDOT Bridge Analysis Guide (BAG), latest edition, will be used to determine the Operating and Inventory ratings.

Load ratings, by LFR and LRFR, to be performed using the current version AASHTOWare Bridge Rating software BrR, using the bridge exchange file provided by the MCRC.

Should a substructure member be the controlling component and cannot be rated using the AASHTOWare program other suitable structural analysis programs or hand calculations shall be acceptable in conformance with current MDOT and AASHTO requirements.

4. Documentation

An Assumption Sheet and a Summary Sheet will be completed in MiBridge. An original paper Summary Sheet will be sealed by the Professional Engineer doing the calculations. All calculation sheets, computer output sheets, etc. become the property of the Monroe County Road Commission and will be delivered under letter of transmittal for inclusion in

the bridge file. The Consultant shall print the reports to a pdf and save to a usb memory stick using the MCRC file naming conventions.

For bridges determined to require additional and/or extensive field inspection and testing, based on the information provided during the review, the Consultant will provide the Monroe County Road Commission PM the information below.

1. Statement of Need

The Consultant will document the deterioration or conditions that are the cause of the need for the additional work.

2. Statement of Cost

A detailed cost estimate to perform the necessary detailed inspection, testing, load ratings, documentation and MiBridge entry.

D. Load Rating Reports

The deliverable for each bridge load rating will be a Load Rating Report. The Consultant will be assigned the structures for inspection and rating in MiBridge. The assignment will last for 90 days.

The Load Rating Report has several components that will vary from bridge to bridge, but will include at least the MDOT form "*Bridge Analysis Assumptions*", MDOT form "*Bridge Analysis Summary*", and the calculation and computer analysis output sheets. Additional documents may also be necessary depending on the circumstances at the bridge and its condition. Some of these are the RFA form, field notes, sketches, and pictures. The "*Bridge Analysis Assumptions*", and "*Bridge Analysis Summary*" forms are to be completed and the data saved on-line in MiBridge. Any revisions necessary to the SI&A form due to conditions found during the load rating process will also be updated in MiBridge by the Consultant.

All of the documents created by the load rating for each bridge shall be accompanied with a cover letter stating that the load ratings have been performed in accordance with this scope of services, and that all appropriate procedures and guidelines have been followed. This letter will also have the professional registration seal of the engineers performing and checking the work.

The Monroe County Road Commission PM will conduct periodic QC checks on the Consultant's work (approximately five percent of the structures listed). If these evaluations, in the judgment of the Monroe County Road Commission PM, show that the Consultant does not adhere to the policies and guidelines noted above, the contract can be terminated and the balance of the structures to be load rated will not be paid for.

CONTRACT ADMINISTRATION

The following meetings are anticipated during this project. Each meeting is expected to take 1/2 day for the Consultant to attend the meeting, including travel, and 1/2 day to complete the associated paperwork. The meeting location will be at a location determined by the Monroe County Road Commission PM if a face-to-face meeting is desired.

The costs and expenses for these meeting shall be considered as included in the unit prices provided for the individual bridge load ratings and not be submitted as a separate additional cost to the MCRC.

For all of the periodic meetings listed below, the Consultant will prepare a meeting agenda and submit it to the Monroe County Road Commission PM prior to the meeting. The Consultant will also keep notes of the meeting and distribute meeting minutes within one week after the meeting.

A. Pre-Rating Meeting

This meeting is intended to exchange information regarding the general procedures for communication, review the schedule, discuss emergency procedures and communication, and discuss any open questions to that point before the first inspection begins.

B. Progress Meeting

The Consultant will meet with the Monroe County Road Commission PM after the first five load ratings are completed to review the progress and draft reports. The Consultant will have all of the documents completed prior to the meeting and will submit them under letter of transmittal.

The Consultant and the Monroe County Road Commission PM will review the QC reports and determine if any changes are necessary to the Consultant's procedures.

C. Project Closeout Meeting

This meeting is intended as a review of any outstanding contract requirements and final presentation of the deliverables. All borrowed bridge file documentation will be returned at this time.

CONSULTANT QUALITY CONTROL PLAN

The Consultant will submit a project quality control plan with their proposal that will accomplish, at a minimum, the following:

- A. Confirm that all Load Rating Engineers have the required documents and certificates to substantiate their qualifications.
- B. Confirm that the process and procedures meet the requirements of the NBIS.
- C. Review and check the completed work to insure that all reports are complete, accurate, and consistent.

ADMINISTRATIVE REPORTS

In addition to the inspection reports, the following administrative reports are required if they apply:

- A. Progress Report
- B. Consultant QC Reports

These reports must be completed and submitted to the Monroe County Road Commission PM at the Progress Meeting(s). This information will be used by the Monroe County Road Commission PM to compare progress of the inspections with the schedule.

GENERAL REQUIREMENTS

A. Personal Safety Equipment

The Consultant will be required to provide all personal safety equipment for those people working in the field. Some of the required items are hardhats, safety shoes, safety vests, gloves, safety harnesses, eye protection, flotation devices, etc.

Any person found to not have the required safety equipment will be asked to leave the Monroe County Road Commission right of way. If there are repeated cases of this, the contract with the Consultant will be terminated.

B. Inspection Equipment

The Consultant must provide the following equipment as suitable for the inspection of the bridge. The use of this equipment during the inspection is considered part of the Lump Sum price.

1. Inspection Vehicle

The Consultant will provide a vehicle with high visibility marking and or lighting for use during inspection. This vehicle will provide transportation for the inspection staff and the necessary equipment.

2. Computer

The Consultant is required to have a computer with internet connection. A laptop computer for use in the field would be helpful but is not required.

The computer must have access to a printer to print the report documents for the field and the final report.

3. Non-Destructive Testing (NDT)

The routine bridge field review process does not require testing, but spot checking by sounding concrete for delamination, checking for suspected cracks in steel, and measuring for section loss in areas of heavy corrosion may be required.

The following equipment is necessary to perform these tests:

- a. Calipers and thickness gauges
- b. Dye penetrant test kit
- c. Chain drag or sounding rod or hammer

4. Cell Phone

While in the field, the Consultant must have a cellular telephone. The phone numbers must be provided to the Monroe County Road Commission PM at the Pre-rating meeting.

5. Camera

The Consultant must have a digital camera that can clearly record images of pertinent items found during the field review. One color copy of the pictures must be given to Monroe County Road Commission as part of the Inspection Report along with the electronic file.

6. Hand Tools

The Consultant must provide the hand tools necessary to complete the field review. Examples of hand tools needed include, but are not limited to, ladders, waders, hammers, lighting, marking paint, measuring tapes, etc.

C. Traffic Control

Traffic control for closing a lane is not required for this project. The inspection is expected to be done from the shoulders or the median. Some safety equipment for working on the shoulder may be necessary such as traffic cones, flashers on the vehicles, flexible roll-up sign for "Men Working Ahead", etc. If the shoulders are too narrow to do the review safely, the Consultant is to recommend a supplemental in-depth inspection.

D. Release of Information

The Consultant may not release any information about the bridge or the ratings to anyone outside of Monroe County Road Commission. Failure to abide by this stipulation could result in penalties as a result of the Homeland Security Act.

The Consultant is not allowed to make copies of the information in the bridge files unless given written approval from the Monroe County Road Commission PM.

E. Terms and definitions

The following terms and definitions apply to this Scope of Services

1. Monroe County Road Commission - The local government agency issuing the contract.
2. Monroe County Road Commission PM (Project Manager) - The person administering the contract for the local government agency.
3. Consultant PM (Project Manager) - The person responsible for administration of the contract for the consulting firm.
4. Consultant Load Rating Engineers - Persons meeting the qualifications of the NBIS to do bridge inspections and load ratings.
5. NBIS - National Bridge Inspection Standards, 23-CFR-650
6. MiBridge. A MDOT web site for the entry of bridge inspection reports.
7. RFA - Request for Action.

RESPONSIBILITIES OF THE MONROE COUNTY ROAD COMMISSION

The following activities and information will be provided by the Monroe County Road Commission PM, where applicable, to the Consultant.

- A. Assign the structures to be load rated to the Consultant in MiBridge.
- B. Provide access to the hard copy bridge files which will include previous load ratings.
- C. Perform QA evaluations on 5% of the structures load rated.
- D. Provide access for the Consultant to any pertinent information in the Monroe County Road Commission bridge files and database that may be necessary to complete the load rating. See "Release of Information" for restrictions on dissemination of the material.

UNIT PRICE CONTRACT

The work performed on this contract will be paid at the unit prices for the following items of work:

Load Rating (Each) – The unit price for each bridge load rating includes the cost of the following:

- 1. Conducting a Bridge File Review;
- 2. Performing a Field Review;
- 3. Performing Load Rating Calculations;
- 4. Inputting bridge load rating data into the MiBridge;
- 5. Preparing the Load Rating Report;
- 6. Performing quality control reviews;
- 7. Attending administrative meetings.

CONSULTANT PAYMENT

The Consultant shall invoice the Monroe County Road Commission for their work on the contract. Each invoice shall contain, at a minimum, the following information: bridge number, bridge location road and crossing, items of work completed, and the contract unit prices.

All invoices shall be sent to:

Finance Department
Monroe County Road Commission
840 South Telegraph Road
Monroe, MI 48161

In lieu of mailing paper copies of the invoices, electronic copies of the invoices in PDF format may be emailed to MCRC-Finance@mcrc-mi.org.

**SCHEDULE OF ITEMS
MONROE COUNTY ROAD COMMISSION
2016 BRIDGE LOAD RATINGS
TIER 3**

SCHEDULE OF ITEMS

A. BRIDGE INSPECTIONS

Item Description	Estimated Quantity	Unit	Unit Price	Bid Amount
Bridge Load Rating	20	Ea	\$	\$
Total Bid				\$

APPENDIX A																								
MONROE COUNTY ROAD COMMISSION																								
2016 BRIDGE LOAD RATINGS																								
TIER 3																								
AD-HOC QUERY RESULT																								
Jurisdiction: Local Agency - (Local Agency - County)																								
BRKEY	STRC_NUM	INSPDATE	FACILITY	FEATINT	DESIGNMAIN	LOCATION	MAINSPANS	MATERIALMAIN	YEARBUILT	YEARRECON	DECKWIDTH	LATITUDE	LENGTH	LONGITUDE	MAXSPAN	BRINSPFREQ	NBI_RATING	OPPOSTCL	SCOURCRIT	SUFF_RATE	NEXTINSP	UWMETH_CD	ADTTOTAL	LANES
58200060000B010	7267	12/15/2015	IDA MAYBEE RD	RIVER RAISIN	6	4.15 MI N OF IDA WEST RD	4	5	1958	2003	34.3	415751.12	256	833247.41	66	24	0	A	8	95.5	12/15/2017	1	2726	2
58200060000B020	7268	12/15/2015	IDA MAYBEE RD	MILL RACE	6	4.25 MI N OF IDA WEST RD	1	5	1958	2004	34.3	415752.6	30	833246.55	27.5	24	0	A	5	94.9	12/15/2017	1	2728	2
58200063000B010	7271	09/18/2015	RAISINVILLE RD	PLUM CREEK	5	1.25 MI S OF M 50	1	5	2007		43.6	415455.08	40	832822.26	38.7	24	0	A	8	86.8	09/18/2017	1	7477	2
58200076000B010	7275	02/26/2015	NORTH DIXIE HWY	SANDY CREEK	5	0.05 MI S OF HURD RD	1	5	1976	2001	61	415555.45	52.8	832026.07	50.9	24	2	A	8	60.5	02/26/2017	1	11929	5
58200076000B020	7276	12/15/2015	NORTH DIXIE HWY	STONY CREEK	5	3.0 MI NE OF I-75	3	5	1966	2005	51.3	415655.32	120	831834.7	40	24	0	A	5	94.9	12/15/2017	1	10915	3
58200078000B020	7279	05/06/2016	US TURNPIKE	MOUILLEE CREEK	5	1.25 MI SW OF COUNTY LINE	1	5	2006		44.2	420136.82	60.3	831330.23	59	24	0	A	5	97.8	05/06/2018	1	2341	2
58200120000B010	7300	11/19/2015	RAISINVILLE RD	RIVER RAISIN	2	.10 MI NORTH OF M 50	5	3	1968	2011	42	415606.35	400	832743.21	85	24	0	A	8	96.7	11/19/2017	1	5940	2
58301H00005B010	7305	01/29/2015	LABO ROAD	SWAN CREEK	5	0.5 MI E OF SWAN CREEK RD	3	5	1995		25	420120.4	110.9	831809.67	50.9	24	0	A	5	92.8	01/29/2017	0	20	2
58301H00015B010	7307	03/31/2016	NEWBURG ROAD	N BRANCH SWAN CREEK	5	0.6 MI E OF GRAFTON ROAD	1	5	1999		33	420444.93	50	832208.12	48.3	24	0	A	5	99.9	03/31/2018	1	400	2
58304A00023B020	7329	10/09/2015	DENNISON ROAD	SWAMP RAISIN CREEK	19	0.4 MI S OF BREWER ROAD	1	1	2006		40	415613.97	26	834349.03	24	24	0	A	5	100	10/09/2017	1	71	2
58304A00030B020	7337	07/28/2014	WILCOX ROAD	MID. BRANCH MACON DRAIN	5	0.2 MI N OF KENT ROAD	1	5	1976		33.5	415851	41	834115.68	38.7	24	0	A	3	96.9	07/28/2016	1	280	2
58305A00029B010	7342	03/28/2016	BAY CREEK ROAD	LITTLE LAKE CREEK	19	1 MI N OF SUMMIT STREET	2	2	1955		0	414610.5	24	832848.21	10.8	24	0	A	8	92.8	03/28/2018	1	232	2
58305A00029B020	7343	03/28/2016	BAY CREEK ROAD	FLAT CREEK	19	0.2 MI E OF SUMMIT STREET	2	2	1957		0	414527.89	20.8	832848.01	10	24	0	A	8	96.8	03/28/2018	1	232	2
58308H00024B010	7361	08/25/2014	DOUGLAS ROAD	LOCKWOOD DRAIN	19	TIRE 3	2	1	1960	2004	0	415028.37	28.5	833634.04	14	24	0	A	8	89	08/25/2016	1	376	2
58313B00020B010	7393	02/26/2015	SHEICK ROAD	SANDY CREEK	19	0.15 MI S OF BLUEBUSH RD	1	1	1985		0	415939.35	20	832820.79	14	24	0	A	8	88.9	02/26/2017	1	351	2
58313B00025B010	7394	04/15/2016	GRUBER ROAD	SANDY CREEK	19	1 MI N OF BLUEBUSH ROAD	1	1	2001		26	415928.85	28	832617.81	24.9	24	0	A	8	86.2	04/15/2018	1	1140	2
58315H00017B010	7398	08/29/2014	TEMPERANCE ROAD	HALFWAY CREEK	19	.5 MI E OF WHITEFORD RD	2	1	1980		0	414638.95	22	833927.45	8.9	24	0	A	8	97	08/29/2016	0	623	2
58315H00043B010	7401	07/18/2014	HICKER ROAD	OTTAWA LAKE OUTLET	2	0.4 MI S OF SECTION ROAD	1	3	1960		28	414401.12	36.7	834119.72	33.8	24	0	A	5	84.8	07/18/2016	0	502	2
58315H00045B010	7403	07/18/2014	JEFFS ROAD	OTTAWA LAKE OUTLET	2	0.1 MI. S. OF STERNS RD.	1	3	1964		28	414447.36	38.7	834106.61	35.8	24	0	A	5	95.9	07/18/2016	1	191	2
58200126000B010	12658	04/28/2016	SMITH ROAD	HALFWAY CREEK	19	.02 MI E OF DOUGLAS ROAD	2	1	1960		45.4	414406.98	42.5	833619.47	17.6	24	2	A	8	78.9	04/28/2018	1	7883	3