GREEN LAKE COUNTY

571 County Road A, Green Lake, WI 54941

Original Post Date: 07/02/19

Amended Post Date: 07/10/19

The following documents are included in the packet for the Highway Committee on 07/10/19:

1) Agenda

2) Minutes of 06/12/19

3) CTH Q Bridge Solicitation

4) On-Call Engineering Solicitation

5) Highway Improvement Plan (2018-2023)

6) 3 year Paser Rating Comparison sorted by rating

7) 3 year Paser Rating Comparison sorted by county road

8) August Road Review Schedule

9) Commissioner's Report

10)CTH Q Engineering Summary

11) Engineering Fee Schedule – On-Call

Green Lake County

GREEN LAKE COUNTY
HIGHWAY DEPARTMENT

Office: 920-294-4060
FAX: 920-294-4066

Highway Committee Meeting Notice

Date: July 10, 2019 Time: 4:00 pm
Green Lake County Government Center, County Board Room
571 County Rd A, Green Lake WI

AGENDA

Committee Members

David Abendroth
Vicki Bernhagen
Dennis Mulder
Robert Schweder
Charlie Wielgosh

Becky Pence, Secretary

1. Call to Order
2. Certification of Open Meeting Law
3. Pledge of Allegiance
4. Minutes
5. Public Comment, 3 minute limit
6. Correspondence
7. Appearances
8. Minutes of 06/12/19
9. CTH Q Bridge Engineering Rating
10. On-Call Engineering Selection
11. STH 23/73 Wayside Garbage Pick Up
12. Financials
13. 2020 Budget Discussion
14. Highway Improvement Plan Discussion
15. Paser Rating Discussion
16. August Road Review Date and Time
17. Committee Meeting Room and Time
18. Railroad Consortium
19. Commissioner's Report
20. Committee Discussion
    - Future Meeting Date, Road Review to be determined; Regular Meeting Date September 11, 2019
    - Future Agenda items for action & discussion
21. Adjourn

Kindly arrange to be present, if unable to do so, please notify our office. Sincerely, Becky Pence

Please note: Meeting area is accessible to the physically disabled. Anyone planning to attend who needs visual or Audio assistance, should contact the Highway Office, 920-294-4060 not later than 3 days before date of the meeting.

HIGHWAY COMMITTEE MEETING
June 12, 2019

The meeting of the Highway Committee was called to order by Chair Dennis Mulder at 4:30 PM on Wednesday June 12, 2019 in the Training Room, Green Lake County Government Center, Green Lake, WI. The requirements of the open meeting law were certified as being met. The Pledge of Allegiance was recited.

Present:	Dennis Mulder	Absent:
	David Abendroth	
	Bob Schweder	
	Vicki Bernhagen	
	Charlie Wielgosh	

Other County Employees Present: Barry Mashuda, Highway Commissioner; Becky Pence, Administrative Assistant; Cathy Schmit, County Administrator; Harley Reabe, County Board Chair

Approval of Minutes
Motion/second (Schweder/Abendroth) to approve the minutes of 4/10/19 and 5/21/19. All ayes. Motion Carried.

Correspondence – None

Public Comment – None

Appearances - None

Financial Reports
The financial reports were reviewed and questions answered.

Horse Manure on Green Lake County Roads
Horse manure on Green Lake County Roads was discussed. Currently, there is no documented evidence of the horse(s) owner(s). At this time, residents would need to call dispatch so this could get recorded and possibly an officer to check out the situation.

Railroad Consortium
Supervisor Mulder reported there was no May meeting due to lack of Agenda items.

Commissioner's Report
This Commissioner's Report was reviewed

Committee Discussion
Future Meeting Date set for July 10, 2019
Future Agenda items for discussion and/or action**:** Building update, CTH Q Bridge Engineering Rating, On-Call Engineering.

Adjournment: 5:00 PM

Submitted by,

Becky Pence.
Highway Committee Secretary

GREEN LAKE COUNTY
HIGHWAY COMMISSION

Barry Mashuda
Highway Commissioner

Office: 920-294-4060
Fax: 920-294-4066
Email: bmashuda@co.green-lake.wi.us

May 20, 2019

Subject: Request for Proposal for Engineering Design Services

Reference: Bridge Replacement of the CTH Q Grand River Bridge (P240033)
Green Lake County Local Bridge Project 6605-00-00/70
Location STH 44 – Utley Road, Town of Green Lake

Green Lake County will be selecting a consultant for the design engineering services for the replacement of CTH Q Bridge (P240033). Both the design and construction of the project are being funded through the Wisconsin Department of Transportation administered, Local Bridge Program.

CTH Q Bridge was constructed in 1925 and is in need of replacement. The bridge is currently posted at 45 Ton. This is a scour critical bridge with unstable foundations. There are significant areas of spalling with exposed rebar on the concrete slab and on the wingwalls. The bridge is a single span structure, has a clear roadway width of 26 feet and a length of 23 feet. The proposed improvement is to replace the bridge in the same location with a 28 foot clear bridge width and 42 foot bridge length.

Green Lake County Highway Department will review all proposals, and will make recommendations to the Highway Committee based upon the responses given and the qualifications of the firm.

Proposals must be submitted by June 17, 2019. Please provide one original and one copy. We will not be conducting formal interviews.

Interested consultants should respond, with no more than three pages with answers to the following:

- Describe your firm's expertise and experience in bridge replacement projects
- List similar projects your Project Engineer, and key personnel have completed
- Reference contact information for completed and/or current projects
- A project understanding and a description of how the project will be approached including major work elements and unique concepts that might be employed.
- Schedule for completion of the design work including each major task

We appreciate your interest in providing engineering services to Green Lake County. Please contact me should you have any questions.

Barry Mashuda
Highway Commissioner
Green Lake County

AECOM

AECOM
200 Indiana Avenue
Stevens Point, WI 54481
www.aecom.com

715 341 8110 tel
715 341 7390 fax

June 14, 2019

Barry Mashuda
Highway Commissioner
Green Lake County Highway Commission
570 South St.
Green Lake, WI 54941-0159

Subject: Engineering Design Services for
Green Lake County Local Bridge Project
CTH Q over the Grand River (P240033)
Green Lake County

Dear Mr. Mashuda:

For your upcoming bridge project, the Green Lake Highway Commission will benefit from a consultant that has the ability to:

- Provide clear communication
- Meet schedule deadlines
- Provide quality, cost effective, and efficient designs

The primary responsibility of AECOM is to work with you and your staff to achieve the items listed above. Our team is structured to address these needs by:

- Providing a Project Manager who has managed on a Local Program Bridge project in Green Lake County (CTH I over Grand River) and several Local Bridge Program projects throughout the North Central Region. Beth will provide regular progress updates, communicate with stakeholders, and incorporate feedback into the project.
- Selecting a project team with the availability to meet schedule deadlines.
- Bringing extensive experience in bridge design. The structures designers on your team have been involved in the design or rating of more that 100 bridges, retaining walls, and sign structures in the past 9 years.

We are excited for the opportunity to team with the Green Lake County Highway Commission in your efforts to provide a safe, reliable transportation facility for the residents of Green Lake County. Enclosed is our Statement of Qualifications. Please contact me at (715) 342-3069 if you have any questions.

Sincerely,

Elizabeth A Nemec

Elizabeth Nemec, P.E.
Project Manager
715.342.3069
elizabeth.nemec@aecom.com

1. Firm's Expertise and Experience

The Green Lake County Highway Commission will benefit from AECOM's experience with similar structure projects. The AECOM Bridge Group is responsible for designing more than 800 bridge replacement and rehabilitation projects throughout Wisconsin over the last 30 years. These projects encompass bridges spanning a variety of features, including water, roadways, and railroads.

The AECOM Bridge Group is responsible for designing more than 800 bridge replacement and rehabilitation projects throughout Wisconsin over the last 30 years.

AECOM is familiar with the required approvals and permits for stream crossing structures, including the U.S. Army Corps of Engineers (USACE) Section 404 Permit and the Wisconsin Department of Natural Resources (DNR) 401 Water Quality Certification. AECOM understands that early agency coordination is the key to keeping stream crossing projects on schedule.

In all structure designs, our design team follows the project development process outlined in the Wisconsin Department of Transportation (WisDOT) Facilities Development Manual (FDM). We thoroughly understand this process and implement methods to streamline the review and approval of various reports and other submittals. We follow the WisDOT Bridge Manual regarding the structure development. In addition, our team of professionals are well versed in bridge and highway design policies and procedures published by in the American Association of State Highway and Transportation Officials (AASHTO). These publications include the Load and Resistance Factor Design (LRFD) Bridge Design Specifications and the Policy on Geometric Design of Highways and Streets.

The AECOM Team has met the challenge of preparing cost-effective and efficient designs, and will use this knowledge to solve specific site constraints. Our staff understands WisDOT's Standard Specifications for Highway and Structure Construction, and we routinely discuss best construction practices with our in-house construction staff.

AECOM staff members understand all aspects of the WisDOT design procedures that will be incorporated into the Grand River Bridge project. From bridge and roadway design, environmental and historic/archaeological services, to geotechnical investigations, right-of-way plat preparation, and utility/agency coordination, AECOM staff can effectively meet these requirements.

AECOM has established its proficiency in public involvement with both individual property owners and public information meetings.

AECOM is proud to continue to be recognized at the top of this year's Engineering News-Record's 2019 Top 500 Design Firms' rankings.

Services

AECOM's project team has experience in all facets of bridge replacement projects including:

- Survey
- Agency Coordination
- Utility Coordination
- Hydrology
- Hydraulics
- Preliminary Bridge Design
- Preliminary Roadway Design
- Environmental Reports
- Hazardous Materials Surveys and Reports
- Design Study Reports
- Public Involvement
- Wetland/Waterway Permits
- Right of Way Plats
- Traffic Control/Detour Plans
- Final Bridge Design
- Final Roadway Design
- Cost Estimating
- PS&E Documentation

AECOM will use a subconsultant as part of the project team for soil borings and geotechnical reports.

References

AECOM is proud of our service to bridge clients throughout Wisconsin.

Jim Griesbach, Highway Commissioner
Marathon County Highway Department
1430 West Street
Wausau, WI 54401
715.261.1801
James.Griesbach@co.marathon.wi.us

Scott Emch, Highway Commissioner
Rusk County Highway Department
N4711 Highway 27
Ladysmith, WI 54848
715.523.2633
semch@ruskcountywi.us

Amy Brooks, Former Green Lake County Commissioner
WisDOT Central Office
3502 Kinsman Blvd
Madison, WI 53704
608.246.5396
amy.brooks@dot.wi.gov

2. Similar projects

The below table lists similar bridge replacement projects completed by AECOM's proposed project team. Resumes showing the key personnel and their experience are attached.

Name/Location	Spans	Length	Width	Structure Type	Completion*
CTH Q/Grand River Green Lake County	1	42 feet	28 feet	Concrete flat slab	TBD
CTH I/Grand River [1] Green Lake County	2	65 feet	28 feet	Concrete flat slab	2016/2017
CTH A/Tomorrow River Portage County	1	52.5 feet	34 feet	Concrete flat slab	2018/2019
CTH MM/Bower Cr Brown County	2	70.5 feet	34 feet	Concrete flat slab	2018/2018
CTH AA/S Br Oconto River Oconto County	1	63 feet	30 feet	Prestressed concrete deck girder	2017/2018
CTH V/Little Jump River [1] Rusk County	2	85 feet	30 feet	Concrete flat slab	2017/2018
Swamp Road/Hydes Cr Shawano County	1	41 feet	28 feet	Concrete flat slab	2016/2017
STH 106/Bark River Jefferson County	1	93 feet	36 feet	Prestressed concrete deck girder	2016/2017
CTH O/Hog Cr [1] Marathon County	1	50.5 feet	34 feet	Concrete flat slab	2016/2016
Vision Pkwy/Unnamed Cr Sheboygan Falls	1	32.5 feet	36 feet	Concrete flat slab	2015/2016
CTH Y/Br Eau Claire River[1] Marathon County	1	30.5 feet	30 feet	Concrete flat slab	2015/2015
Meadow Dam Rd/Deer Cr [1] Rusk County	1	38 feet	24 feet	Concrete flat slab	2014 /2015
West Rd/Emmons Cr Town of Dayton	1	31 feet	24 feet	Concrete flat slab	2014/2015
West Rd over Radley Cr Town of Dayton	1	26.5 feet	24 feet	Concrete flat slab	2014/2015
Dayton Rd over Radley Cr Town of Dayton	1	30.5 feet	24 feet	Concrete flat slab	2014/2015
CTH G/Br Rock River Rock County	1	94 feet	44 feet	Prestressed concrete deck girder	2014/2015
CTH Z/Prahl Cr [1] Marathon County	1	46.5 feet	34 feet	Concrete flat slab	2012/2012
STH 66/Skelly Cr Portage County	1	40.5 feet	44 feet	Concrete flat slab	2011/2012
STH 66/Mosquito Cr Wood County	2	66 feet	44 feet	Concrete flat slab	2011/2012
STH 66/Adler Cr Wood County	1	28.5 feet	44 feet	Concrete flat slab	2011/2012
CTH S/Wolf River Outagamie County	3	304 feet	40 feet	Prestressed concrete deck girder	2011/2012

[1] See Page 1 for reference contact information

* Design/Construction

CTH Q over Grand River (Existing)

CTH I over Grand River

CTH A over Tomorrow River (Existing)

CTH O over Hog Creek

CTH V over Little Jump River

Swamp Road over Hydes Creek

CTH MM over Bower Creek

West Road over Emmons Creek

CTH Y over Br Eau Claire River

3. Project Understanding and Approach

Your project will follow the traditional WisDOT process, including public involvement, environmental document, design report, coordination, structure submittals, roadway submittals, and PS&E documents. The AECOM Design Team has significant experience with the WisDOT process.

Your project has special components, unique to its location and to your goals for the project. We have made a site visit to the structure location and identified some key aspects of the project site. The following is how we would approach the special considerations for this project.

Agency Coordination The previous project we completed for you on County I was over this same river, downstream of this location. The WDNR told us this was a warm-water fishery and placed restrictions on the construction window to allow for fish breeding. Also, the Utley State Wildlife Area is adjacent to the structure (see picture). We will coordinate with all of the agencies at the beginning of the project to start gaining their input. We will also work with them to understand their requests and requirements, and incorporate these requirements into the design. We will send them draft plans and special provisions to continue to gain concurrence as the project progresses. This should facilitate the approvals process at the end of the design phase.

Quarry There is a heavily used quarry about 1/4 mile south of this structure location. Replacing this structure is critical to ensure trucks can continue to haul along this route. It will also be important to coordinate with the quarry owner to ensure they are aware of the project and have an opportunity to voice any concerns they may have.

Floodplain The structure is located in a mapped floodplain. We will investigate possible floodplain impacts associated with the replacement structure and coordinate with Green Lake County Zoning to ensure all requirements are met.

Wetlands According to the WDNR Surface Water Viewer, there are wetland indicators in the vicinity of the structure. During the project development, we will quantify the wetland impacts and apply for a 404 permit through the USACE. This permit is required prior to the beginning of construction.

Utility Coordination There are several utilities adjacent to the project site. We will initiate communication with the utility companies to confirm their utility locations at the beginning of the project. Once the project impacts are determined, we will coordinate with the utility companies to allow them sufficient time to make appropriate accommodations for construction of the new bridge.

Driveway There appears to be a driveway in the southeast corner of the bridge. There is a culvert pipe under the driveway. It appears the driveway is not used very often if at all. The guardrail will need to be designed to accommodate the driveway. We will work with you and the property owner to determine the best approach during design.

4. Schedule for Completion

Project Task	Completion Date
Notice to Proceed	August 15, 2019
Geotechnical Investigation	September 2019
Survey	September 2019
Operational Planning Meeting	October 2019
30% Design Submittal	November 2019
Public Involvement Meeting	November 2019
Preliminary Structure Meeting	December 2019
Environmental Document	December 2019
Transportation Management Plan	February 2020
60% Design Submittal	March 2020
Design Study Report	April 2020
90% Design Submittal	September 1, 2020
Final Structure Plans	September 1, 2020
Final PS&E	November 1, 2020
WisDOT Bid Letting	March 9, 2021

Beth Nemec, P.E.

Project Manager and Lead Project Engineer

Project Role: Project Manager, Quality Control, and Oversight

Education
MS, Civil Engineering - Transportation

BS, Civil and Environmental Engineering

Licenses/Registrations
Professional Engineer - Wisconsin

Years of Experience
9

Beth will be your Project Manager and Senior Structural Engineer, responsible for coordination and scheduling of project activities, along with oversight and quality control of the bridge design. Beth will be the communication link between you and the project team. Beth has 9 years of experience working on structure related projects and has been managing projects for the last 5 years. Her management skills include organizing resources, overseeing staff, managing budgets, and quality control. Beth and her project team have established efficient communication strategies to allow for a cohesive project. Beth understands the importance of communication and meeting schedule deadlines. Beth has an excellent understanding of the local program project process from scoping to final PS&E.

Experience

CTH I Bridge over Grand River, Green Lake County (Local Bridge Program, 2016) Project manager and lead structure designer for the replacement of a single span stream crossing with a two-span concrete flat slab bridge. Responsible for day to day project management and internal and external communication, preliminary bridge design, 404 permit, hazardous materials site summary, environmental document, operational planning meeting, public involvement meeting, pavement design report, transportation management plan, design study report, final bridge design, cost estimating, and PS&E.

CTH M Bridge over Fenwood Creek, Marathon County (Local Bridge Program, 2019) Project manager for the ongoing design of a replacement of a single span stream crossing with a two-span concrete flat slab bridge. Responsible for day to day project management, internal and external communication, preliminary bridge design, 404 permit, hazardous materials site summary, environmental document, public involvement meeting, pavement design report, transportation management plan, design study report, final bridge checking and oversight, cost estimating, and PS&E.

CTH V Bridge over Little Jump River, Rusk County (Local Bridge Program, 2017) Project manager for the replacement of a single span stream crossing with a two-span concrete flat slab bridge. Responsible for day to day project management, internal and external communication, preliminary bridge design, 404 permit, hazardous materials site summary, environmental document, operational planning meeting, public involvement meeting, pavement design report, transportation management plan, design study report, final bridge design, cost estimating, and PS&E.

CTH O Bridge over Hog Creek, Marathon County (Locally Funded, 2016) Project manager for the replacement of a single span stream crossing bridge with a single-span concrete flat slab structure. Responsible for day to day project management, internal and external communication, preliminary bridge design, wetland permit, public involvement meeting, final bridge design, plan checking and oversight, cost estimating, and construction documents.

CTH A over Tomorrow, Portage County (Local Bridge Program, 2018) Deputy project manager and lead project engineer for the replacement of a single span stream crossing structure with a single span concrete flat slab structure. Responsible for preliminary bridge design, roadway geometrics, 404 permit, hazardous materials site summary, environmental report, transportation management plan, operational planning meeting, and design study report.

Carolyn Brugman, P.E.

Structure Designer

Project Role: Bridge Design

Education
BS, Civil and Environmental Engineering

Licenses/Registrations
Professional Engineer - Wisconsin

Years of Experience
7

Carolyn will be the lead structure designer for the project. Carolyn has 7 years of experience in bridge design and rating. She has been the bridge designer for many WisDOT and local bridge projects ranging from mega projects to stream crossings and rehabilitations. Carolyn's experience includes prestressed concrete girder design, concrete slab span design, curved steel girder design, precast and cast in place concrete box culvert design, substructure design, foundation design, retaining wall design, boardwalk design, and sign structure design. She also has experience load rating both new and rehabilitated bridges.

Experience

CTH I Bridge over Grand River, Green Lake County (Local Bridge Program, 2016) Structure designer for the replacement of a single span stream crossing bridge with a two-span concrete flat slab structure. Responsible for checking bridge calculations, calculating bridge bar lists and quantities, assisted in checking final structure plans, and completed all structure submittal documents.

CTH M Bridge over Fenwood Creek, Marathon County (Local Bridge Program, 2019) Structure designer for the ongoing replacement of a single span stream crossing bridge with a two-span concrete flat slab structure. Will be responsible for design calculations for the final structure.

CTH AA Bridge over N Branch Oconto River, Oconto County (Local Bridge Program, 2017) Lead structural engineer for the replacement of a single span stream crossing bridge with a single span prestressed concrete girder structure. Responsibilities included structure design of single-span prestressed concrete girder bridge including girder design, deck design, abutment design, special wingwall design and foundation design. Responsibilities also included development of project reports, and plan checking, bar lists, quantities, cost estimates and structure submittal documents.

STH 106 Bridge over Bark River, Jefferson County (WisDOT SW Region, 2017) Lead structural engineer for the replacement of a single span stream crossing bridge with a single span prestressed concrete girder structure. Responsibilities included structure design of single-span prestressed concrete girder bridge including initial structure layout and geometry, girder design, deck design, abutment design, special wingwall design and foundation design. Responsibilities also included development of project reports, plan checking, bar lists, quantities, cost estimates and structure submittal documents.

Swamp Road Bridge over Hydes Creek, Shawano County (Local Bridge Program, 2016) Structural engineer for the replacement of a single span stream crossing structure with a single span concrete flat slab structure. Responsible for checking bridge calculations, calculating bridge bar lists and quantities, assisted in checking final structure plans, and completed all structure submittal documents.

Meadow Dam Road Bridge over Deer Creek, Rusk County (Local Bridge Program, 2014) Structural engineer for the replacement of a single span stream crossing structure with a single span concrete flat slab structure. Responsible for checking bridge calculations, calculating bridge bar lists and quantities, assisted in checking final structure plans, and completed all structure submittal documents.

Ashley Leisgang, P.E.

Water Resources/Hydraulics Engineer

Project Role: Hydrology and Hydraulics Engineering

Education
BS, Civil and Environmental Engineering

Licenses/Registrations
Professional Engineer - Wisconsin

Years of Experience
11

Ashley will be the hydrologic and hydraulic engineer for the project. She will be responsible for determining the design flow at the structure location and calculating existing and proposed high water elevations. Ashley has 11 years of experience completing hydrologic and hydraulic calculations and designs. Ashley has worked with Beth and Carolyn to complete more than 18 hydrologic and hydraulic analyses for bridge replacements across Wisconsin in the last 9 years. Her past structure sizing experience and strong understanding of the WisDOT Bureau of Structures review and approval process will streamline the process when evaluating structure alternatives.

Experience

CTH I Bridge over Grand River, Green Lake County (Local Bridge Program, 2016) Hydraulic Engineer for the replacement of a single span stream crossing with a two-span concrete flat slab bridge. Performed an analysis to establish the hydrologic flows that will be used in the hydraulic design of the replacement structure. Performed a hydraulic analysis using HEC-RAS to find the existing high water surface conditions and evaluate the proposed conditions of the final bridge design.

CTH M Bridge over Fenwood Creek, Marathon County (Local Bridge Program, 2019) Hydraulic Engineer for the replacement of a single span stream crossing with a two-span concrete flat slab bridge. Performed an analysis to establish the hydrologic flows that will be used in the hydraulic design of the replacement structure. Performed a hydraulic analysis using HEC-RAS to find the existing high water surface conditions and evaluate the proposed conditions of the final bridge design.

CTH V Bridge over Little Jump River, Rusk County (Local Bridge Program, 2017) Hydraulic engineer for the replacement of a single span stream crossing with a two-span concrete flat slab bridge. Performed an analysis to establish the hydrologic flows that will be used in the hydraulic design of the replacement structure. Performed a hydraulic analysis using HEC-RAS to find the existing high water surface conditions and evaluate the proposed conditions of the final bridge design.

CTH A over Tomorrow, Portage County (Local Bridge Program, 2018) Hydraulic Engineer for the replacement of a single span stream crossing with a single span concrete flat slab bridge. Performed an analysis to establish the hydrologic flows that will be used in the hydraulic design of the replacement structure. Performed a hydraulic analysis using HEC-RAS to find the existing high water surface conditions and evaluate the proposed conditions of the final bridge design.

CTH O Bridge over Hog Creek, Marathon County (Locally Funded, 2016) Hydraulic Engineer for the replacement of a single span stream crossing with a single span concrete flat slab bridge. Performed an analysis to establish the hydrologic flows that will be used in the hydraulic design of the replacement structure. Performed a hydraulic analysis using HEC-RAS to find the existing high water surface conditions and evaluate the proposed conditions of the final bridge design.

CTH AA Bridge over N Branch Oconto River, Oconto County (Local Bridge Program, 2017) Hydraulic engineer for the replacement of a single span stream crossing bridge with a single span prestressed concrete girder structure. Performed the analysis to establish the hydrologic flows used in the hydraulic design of the replacement structure. Performed a hydraulic analysis using HEC-RAS to find the existing high water surface conditions and evaluate the proposed conditions of the final bridge design.

Scott Stevenson, P.E.

Senior Roadway Engineer

Project Role: Roadway Design Oversight

EEducation
BS, Civil and Environmental Engineering

Licenses/Registrations
Professional Engineer - Wisconsin

Years of Experience
28

Scott Stevenson will lead the roadway portion of the project. He will provide guidance and quality control for the roadway design, utility coordination and PS&E documents. Scott is a senior roadway engineer with 28 years of experience on WisDOT design and Local Program projects. Through this experience, Scott has gained an excellent understanding of the WisDOT project development process from scoping to final PS&E. He has a wide variety of transportation experience including environmental documents, plans and specifications (PS&E), utility and agency coordination, project reports, and public involvement. Scott's technical strengths include horizontal and vertical geometrics, intersection layout, plan preparation, specifications, and cost estimates. In addition, he has a strong background in transportation-related computer software such as Civil 3D and Inroads.

Experience

CTH M Bridge over Fenwood Creek, Marathon County (Local Bridge Program, 2019) Senior roadway engineer for the replacement of a single span stream crossing bridge with a two-span concrete flat slab structure. Provided oversight and checking of the roadway design, roadway plans, and PS&E documents. Completed utility coordination and allowed the project to be finalized successfully.

4th Street over Mud Creek, Manitowoc County (Local Bridge Program, 2018) Senior roadway engineer for the replacement of the 4th Street Bridge over Mud Creek. Provided oversight and checking of the roadway design, roadway plans, design documents, and PS&E documents. Completed utility coordination, and allowed the project to be finalized successfully.

CTH V Bridge over Little Jump River, Rusk County (Local Bridge Program, 2017) Senior roadway engineer for the replacement of a single span stream crossing bridge with a two-span concrete flat slab structure. Provided oversight and checking of the roadway design, roadway plans, and PS&E documents. Completed utility coordination and allowed the project to be finalized successfully

STH 35 Bridge Replacements, Buffalo County (WisDOT NW Region, 2018) Senior roadway engineer for the replacement of a three separate stream crossing bridges. Provided oversight and checking of the roadway design, roadway plans, design documents, and PS&E documents. Completed utility coordination and allowed the project to be finalized successfully.

I-39 South Segment, Rock County (WisDOT SW Region, 2014-2019) Lead roadway engineer for the reconstruction of 12 miles of I-39 from Janesville to the Illinois State border including the reconstruction of the interchange between I-39 and I-43. The project included 23 bridges, several retaining walls and sign structures. Responsibilities included roadway design, drainage design, signing and marking design, extensive traffic control and staging design, coordination of all utility relocations, coordinating with subconsultants and overseeing several design team members. In addition he provided oversite and checking of other roadway designs, roadway plans, design documents, and PS&E documents.

Racine Street Movable Bridge over the Fox River, Winnebago County (Local Bridge Program, Ongoing) Senior roadway engineer for the two-phase project to replace the bridge over the Fox River with a new off-alignment bridge. The project includes constructing a new roundabout on either end of the new bridge. Responsible for the oversight and checking of the roadway portion of the project, including roundabouts in tightly constrained downtown areas.

Mia Steuerwald

Engineering Technician

Project Role: Agency Coordination and Environmental Document

Education
AS, Civil/Structural Engineering Technology

Years of Experience
16

Mia will be responsible for the agency coordination, permitting and all environmental documents. Mia has excellent time management and scheduling skills. Her efforts are crucial to begin the project in a proactive manner. Mia has 16 years of experience in the area of bridge and culvert plan preparation and inspection. In addition to structures, Mia has been responsible for regulatory agency coordination, environmental documents, public involvement preparation and NEPA compliance for the last 5 years.

Experience

CTH M Bridge over Fenwood Creek, Marathon County (Local Bridge Program, 2019) Environmental specialist for the ongoing design of a replacement of a single span stream crossing with a two-span concrete flat slab bridge. preparation of the environmental document, preparation of the 404 permit, and preparation of the 401 permit.

USH 8 over N Branch Pelican River, Oneida County (WisDOT NC Region, 2019) Environmental specialist for the rehabilitation of the USH 8 Bridge over N Branch Pelican River. Responsibilities included preparation of the public involvement plan, coordination with the WDNR, USFWS, USACE, USCG, and Native Americans, preparation of the environmental document, preparation of the 404 permit, and preparation of the 401 permit.

CTH A over Tomorrow River, Portage County (Local Bridge Program, 2018) Environmental specialist for a single span structure replacement on CTH A over the Tomorrow River. Responsibilities included preparation of the 404 permit, and preparation of the 401 permit.

4th Street over Mud Creek, Manitowoc County (Local Bridge Program, 2018) Environmental specialist for the replacement of the 4th Street Bridge over Mud Creek. Responsibilities included preparation of the public involvement plan, coordination with the WDNR, USFWS, USACE, USCG, Manitowoc County Zoning and Native Americans, preparation of the environmental document, preparation of the 404 permit, and preparation of the 401 permit.

STH 35 Bridge Replacements, Buffalo County (WisDOT NW Region, 2018) Environmental specialist for the replacement of three separate stream crossing bridges. Responsibilities included preparation of the public involvement plan, coordination with the Bureau of Aeronautics, FAA, WDNR, USFWS, USACE, USCG, Buffalo County Zoning and Native Americans, preparation of the environmental document, preparation of the 404 permit, and preparation of the 401 permit.

STH 22 Bridge Rehabilitations, Waupaca County (WisDOT NC Region, 2018) Environmental specialist for the rehabilitation of three structures along STH 22 in Waupaca County. Responsibilities included preparation of the public involvement plan, coordination with the Bureau of Aeronautics, FAA, WDNR, USFWS, USACE, USCG, and Native Americans, and preparation of the environmental document.

Don Buza, PLS

Survey Crew Chief and Right of Way Specialist

Project Role: Survey and Right of Way Plat

Education
AS, Civil Engineering

Licenses/Registrations
Professional Land Surveyor

Years of Experience
30

Don will be responsible for the design survey for the project and any required right of way work for the project. Don has 30 years of experience in land surveying, including structure surveys, boundary surveys, design surveys and right-of-way surveys. Don has experience gathering and evaluating field evidence and record documents to determine right-of-way lines and property lines. He is knowledgeable in the use of Civil 3D software and WisDOT data processing. He regularly uses the Trimble Total Station and Trimble GPS, including WisDOT survey procedures and standards that will be required for a local bridge program project. He has been developing, preparing and monumenting right-of-way plats (TPP) for the past 15 years. Don also has experience performing Horizontal and Vertical Control Surveys for WisDOT Aerial Target projects.

Experience

CTH M Bridge over Fenwood Creek, Marathon County (Local Bridge Program, 2019) Right of way plat specialist for the ongoing design of a replacement of a single span stream crossing with a two-span concrete flat slab bridge. Responsible for right of way plat and legal document preparation.

CTH A over Tomorrow River, Portage County (Local Bridge Program, 2018) Lead surveyor and right of way specialist for a single span structure replacement on CTH A over the Tomorrow River. Responsible for design survey and right of way plat and legal document preparation.

CTH V Bridge over Little Jump River, Rusk County (Local Bridge Program, 2017) Surveyor and right of way assistant for the replacement of a single span stream crossing with a two-span concrete flat slab bridge. Responsible for assistance with the right of way plat and staking of the proposed right of way.

STH 64 Bridge over Pine River, Lincoln County (WisDOT NC Region, 2019) Lead surveyor and right of way specialist for a single span structure replacement on STH 64 over the Pine River. Responsible for design survey and right of way plat and legal document preparation for the bridge replacement and the temporary bypass.

STH 47 - Duquaine Road to North Junction of CTH VV, Menominee County (WisDOT NC Region, 2019) Lead surveyor and right of way specialist for the rehabilitation of STH 47 in Keshena. Responsible for design survey and right of way plat preparation for 2.7 miles of roadway reconditioning, including adding curb and gutter and sidewalk in several locations. The project also includes the replacement of a box culvert and a concrete deck overlay of a prestressed concrete bridge.

Thomas Street Roadway Improvements - 17th Avenue to Wisconsin River Bridge, City of Wausau (Locally Funded, 2019) Lead surveyor and right of way specialist for the reconstruction of Thomas Street in the City of Wausau. Responsible for design survey and right of way plat preparation including acquisition from several parcels along the corridor.

Atkinson Drive over WCL Railroad, City of Green Bay (Locally Funded, 2018) Lead surveyor for the structure rehabilitation on Atkinson Drive over the WCL Railroad. Responsible for design survey at the structure location.

STH 35 Bridge Replacements, Buffalo County (WisDOT NW Region, 2018) Surveyor and right of way specialist for three structure replacements on STH 35. Responsible for additional design survey and confirmation of the existing right of way.

AYRES

ASSOCIATES

Ayres Associates' Qualifications for CTH "Q" over the Grand River

Firm's Expertise and Experience

Ayres Associates' capabilities in structural engineering are well-documented. As a firm, **we have designed over 1,500 bridges** as either new crossings or bridge replacements. Most of the structures we design are for Wisconsin counties and towns through the Wisconsin Department of Transportation's (WisDOT's) Local Bridge Program.

Our **bridge engineering services** include development of the preliminary and final design for structures. For structures that cross streams, the design includes a hydraulic analysis.

The volume of bridge projects we have completed allows us to provide effective and economical solutions for Green Lake County. We have the experience to foresee potential problems, saving you unnecessary construction or maintenance costs.

Key Personnel, Projects, References

Our team brings significant experience with bridge replacement projects throughout central and east-central Wisconsin. The chart below summarizes our team's credentials. **Similar recent projects for our key staff can be found on the next page.** We invite you to contact our references to hear about our work.

Staff	Experience, Education	Narrative
Ryan Schaitel, PE Project Manager/ Roadway Design 	**Years of Experience:** 8 **Registration:** Registered Professional Engineer, WI **Education:** BS, Civil Engineering, UW-Platteville, 2010	Ryan joined Ayres Associates' transportation engineering staff in September 2011, bringing experience as an engineer/ estimator on roadway, utility, and building projects for a grading/excavating contractor. His duties at Ayres Associates include working as a project manager for bridge and roadway projects; state and county rural and urban highway design; environmental, design study, and other technical documents; and assisting with public involvement programs. Ryan also provides construction observation services on transportation projects.
Christopher McMahon, PE, CBI Lead Structural Engineer 	**Years of Experience:** 30 **Registration:** Registered Professional Engineer, WI, WY, AZ, CO, MI **Certifications:** Certified Bridge Inspector, WI **Education:** BS, Civil Engineering, UW-Platteville, 1989	Chris, a structural engineer with Ayres Associates since 1989, brings remarkable consistency to his structural design, rehabilitation, and analysis work. Chris has designed bridges in 71 of 72 counties in Wisconsin, including Green Lake County. His comprehensive understanding of structural engineering goes well beyond his design work on hundreds of bridges. He performs bridge inspections, prepares studies for large-scale projects involving multiple structures, and provides structural reviews.
Troy Robillard, PE Quality Assurance/ Quality Control 	**Years of Experience:** 21 **Registration:** Registered Professional Engineer, WI, GA, MI **Education:** BS, Civil Engineering, UW-Madison, 1997	Troy manages transportation services in Ayres Associates' Green Bay and Waukesha offices, and he works as a project manager to complete transportation design projects. He has experience in highway and municipal projects, including bridges and rural and urban highways. His responsibilities include state and county highway design, and urban street design.
Additional structural, water resources, and transportation engineering staff		

Sheboygan CTH "O" over Sheboygan River Bridge Replacement

Client: Sheboygan County Transportation Department
Reference: Greg Schnell, 920.459.3822, greg.schnell@sheboygancounty.com

The Sheboygan County Transportation Department hired Ayres Associates for the replacement of the CTH "O" bridge over a tributary to the Sheboygan River.

The design is for the replacement of the existing single-span concrete deck girder bridge. The existing structure was structurally deficient and was built in 1920. **The new structure is a single-span concrete flat slab bridge** on A1 type abutments, with a clear roadway width of 36 feet. **It will be constructed in 2019. The new structure will include the addition of guardrail in each quadrant.**

Manitowoc County, Town of Cooperstown, Pleasant Road over Devils River Bridge Replacement

Client: Manitowoc County Highway Department
Reference: Marc Holsen, 920.683.4345, marcholsen@co.manitowoc.wi.us

The Manitowoc County Highway Department and Town of Cooperstown hired Ayres Associates to design the replacement of the Pleasant Road bridge over the Devils River. The existing two-span concrete deck girder bridge was approximately 76 feet long with a clear roadway width of 16 feet and had a sufficiency rating of 26.7 out of 100. It was constructed in 1918. The new structure is a two-span concrete haunched slab bridge with a clear roadway width of 28 feet. It was constructed in 2018.

Antigo 8th Avenue over Spring Brook Bridge Replacement

Client: City of Antigo
Reference: Mark Desotell, 715.623.3633, ext. 155, mdesotell@antigo-city.org

The City of Antigo hired Ayres Associates to design the replacement of the 8th Avenue bridge over Spring Brook.

The existing 1936 structure is a single-span concrete rigid frame bridge with vertical concrete abutments. The bridge is approximately 38 feet long and has a clear width of 30 feet and a 5.5-foot-wide sidewalk on each side.

The proposed **replacement structure in WisDOT's North Central Region** is a single-span concrete flat slab bridge on vertical pile-encased (A5) concrete abutments with straight back wingwalls. It has a 34-foot clear roadway width, and the overall length of the structure between abutments is proposed to be 48 feet long to match the banks along Spring Brook.

Project Understanding and Approach

Ayres Associates' staff members have **visited the site, reviewed the structure, and considered its project needs.**

CTH "Q" is classified as a minor collector with an annual average daily traffic of 750 vehicles per day, according to WisDOT counts from 2011. The existing structure on CTH "Q" over the Grand River is a 22.6-foot-long single-span concrete flat slab bridge with a clear roadway width of 25.1 feet. It was built in 1925. Its sufficiency rating is 40.3, and it is posted at a 45-ton weight limit.

Having completed many similar bridges statewide, we are familiar with design considerations for this project. We are available to meet with you as many times as necessary to ensure project quality and success.

This Surface Transportation Program-funded bridge project with local program oversight will be constructed through a WisDOT letting on November 10, 2020. The design of this bridge and approaches will meet WisDOT Facilities Development Manual and Bureau of Structures design requirements and be ready for WisDOT contract letting, including all plans, specifications, and estimates (PS&E).

The overall intent of this project is to provide the County with completed design plans that meet state and federal standards, as well as to provide all engineering computations and completed PS&E to WisDOT in the agency's required format.

Structure Design

Ayres Associates will evaluate different structure alternatives at this site for selection of the most

cost-effective replacement. We will work with utility representatives **for coordination of temporary accommodations that may be needed to avoid a conflict with the required crane movements and the overhead power lines that cross directly over the bridge.**

We will evaluate various single-span concrete flat slab bridges with sill-type (A-1) abutments with angled or straight-back wings. Railings are anticipated to be open 3-tube to help with drainage. The new clear roadway width will be 28 to 30 feet wide depending on traffic projections.

Soil borings will be used to develop structure foundation design and roadway pavement design. Engineering Consulting Services, Inc., will complete a soils investigation at the bridge site.

Roadway Design

New roadway approaches will follow the replace-in-kind policy and be kept to a minimum to reduce additional costs. Per FDM standards for county roads, the new roadway typical section width will be determined based on traffic projections. Existing guardrail will need to be upgraded and lengthened to meet current design standards. This will push the construction limits past the roadway approaches on both sides of the bridge and require additional grading for the end terminals.

Flooding

The new structure will be sized so it will not increase the upstream flood elevation. We understand from discussion with the County that roadway overtopping may be an issue in this area. This will be evaluated during our hydraulic sizing of the bridge.

Environmental Considerations

To satisfy Wisconsin Department of Natural Resources (WDNR) concerns, **we will work with Jay Schiefelbein in the WDNR's Green Bay office** under the WisDOT/WDNR cooperative agreement. Mr. Schiefelbein will likely have the following comments regarding these projects:

- In-stream disturbance restrictions are likely due to spawning fish, including Northern pike, which will require no in-stream disturbance between March 1 and June 15.
- Minor wetland losses will need to be mitigated through the WisDOT/WDNR cooperative agreement.
- Nesting swallows will need to be protected.

Traffic

CTH "Q" will need to be closed to traffic during construction, causing an inconvenience for area residents, farmers, and other businesses. Local traffic will likely use neighboring county/town roads as a detour.

Cost

Our goal is to minimize project costs to the County. An important focus will be to **concentrate on minimizing all non-cost-share items (100% local cost)**, which are right-of-way acquisition, compensable utilities, and long-term maintenance items.

We will **present construction costs for alternative structure types, sizes, and lengths**, and their corresponding roadway limits. Both participating (cost-sharing) and non-participating (non-cost-sharing) costs of various roadway lengths and bridge widths will be computed.

Right-of-Way and Utilities

Every effort will be made during design to avoid and/or minimize any right-of-way impacts. CTH "Q" appears to border the Utley State Wildlife Area, which makes it even more important to minimize right-of-way impacts.

We were able to identify some potential utility conflicts during our site review. Aerial facilities cross directly over the structure and will conflict with the crane used for construction of the new bridge. An underground gas line runs close to the abutments along the east side of the structure and will likely need to be relocated to avoid conflicts with the new bridge abutments. Ayres Associates is familiar with contacts at utility companies in Green Lake County, including **Tim Kroeze at CenturyLink** and **Reijo Murto at We Energies**. Utility companies will be invited to the operational planning meeting at the beginning of the design process so planning can occur early in the design. This will help to eliminate delays to the construction schedule.

CORRE, INC.

ANSWERS.
SOLUTIONS.
RESULTS.

CORRE

175 E. Wisconsin Ave, Suite 27
Oconomowoc, WI 53066
608.828.1011 P
262.354.3015 F

June 17, 2019

Barry Mashuda, Highway Commissioner
Green Lake County Highway Department
570 South Street
Green Lake, WI 54941-0159

Proposal for Engineering Design Services
CTH Q Bridge over Grand River (P-24-33)
Local Bridge Project 6605-00-00/70
City of Green Lake, Green Lake County, WI

Dear Mr. Mashuda:

CORRE, INC. (CORRE) is genuinely interested in providing professional engineering design services to Green Lake County for the CTH Q Structure P-24-33 bridge replacement project over Grand River. CORRE is a leader in providing full-service consulting engineering services for structure projects throughout the State of Wisconsin, and there are several factors that set CORRE apart from the other qualified consultants for your project:

- ***We have recent experience providing design services for the County*** including the CTH S bridge over the Grand River.
- CORRE ***has completed over 20 Local Program bridge replacement projects in the last four years.***
- CORRE ***is currently under contract with the WisDOT Bureau of Structures to provide preliminary plan reviews for other consultants in the state.*** We have had this contract renewed yearly since 2013 and value this trust WisDOT places in us.

Thank you for the opportunity to submit this Proposal. It is our desire to partner with Green Lake County to incorporate our structure design expertise with the vision the County desires. We sincerely appreciate your consideration and look forward to the opportunity to work with you and your staff.

Sincerely,

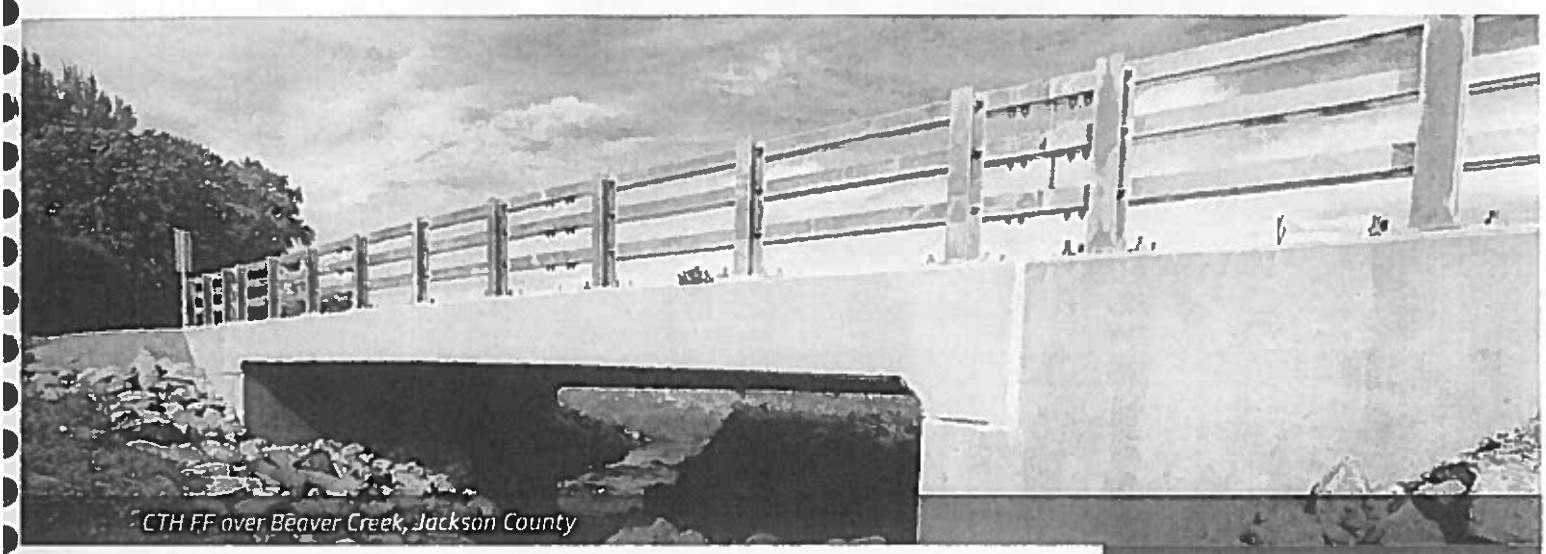
CORRE, Inc.

Jessica Lewis

Jessica Lewis, PE
Project Manager
414.265.8070
jlewis@correinc.com

> I wanted to take the opportunity to thank you for CORRE's work on this project. I have never in 17 years worked with a consultant that worked so hard to keep us in the loop. ...CORRE did an outstanding job for us on this project. As you know, we 'took a chance' bringing CORRE on board for this project... Your staff made our decision look golden!"
>
> Mark Servi, Highway Commissioner, Barron County

CORRE



CTH FF over Beaver Creek, Jackson County

CORRE OVERVIEW

CORRE, INC. is a full-service engineering firm offering an unmatched combination of specialty services. Since beginning operations in 2005, we have grown rapidly and attracted industry-recognized professionals, including professional engineers and environmental and real estate specialists. By having the ability to complete a wide variety of services in-house, we are able to provide a cost-effective, high-quality design.

Large-firm capabilities with small-firm attitude.

Our Services

CORRE has five offices located throughout the State and over 75 employees offering the following professional services:

- **Structural Engineering**
- Transportation Engineering
- Construction Engineering
- Environmental Services
- Cultural Resources
- Utility Coordination
- Real Estate Services
- Right of Way Plats
- Survey
- Public Outreach
- Grant Administration
- Bridge Inspections

5 OFFICES

2005 FOUNDED

78 PROFESSIONALS

Structure Expertise

- Extensive experience with standard and complex structural design, inspection, and construction oversight
- Expertise in Local Program and large-scale WisDOT projects
- Strong working relationships with the WisDOT Bureau of Structures and local communities on all types of structures
- In-depth understanding of with aspects of project delivery
- Proven successful experience delivering a project on time and within budget

WisDOT Design Process & Funding Sources

Understanding the WisDOT process, including the timing of the required reports, is essential to keeping a project on schedule. This is especially true to ensure eligibility for any potential WisDOT funding that becomes available during design. We understand how to balance the needs and costs of both local and federally funded projects.

SIMILAR EXPERIENCE & REFERENCES

Bridge Project Experience Matrix

Our key staff has extensive experience managing and designing successful projects similar to yours, including bridge rehabilitations, bridge replacements, and other county projects. The table below shows select current projects and recently completed projects, and highlights the similar key elements and staff involved.

Project	Survey	Geotechnical Exploration	Hydrology and Hydraulics	Bridge Design	Roadway Design	Right of Way Plat	Environmental Permits/Docs	Agency Coordination	Public Involvement	Jessica Lewis, PE	Eric Price, PE	Scott Koffarnus, PLS
Cramer Lake Road over the Turtle River, Iron County ID 9828-00-00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
CTH A over Sioux Creek, Barron County, ID 8833-00-00	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
CTH AA over Otter Creek, Eau Claire County, ID 7824-00-10	✓	✓			✓	✓	✓	✓	✓	✓	✓	
CTH B over E. Branch Eau Claire River, Langlade County, ID 9360-00-00	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
CTH D over Big French Creek, Trempealeau County, ID 7146-00-00	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
CTH D over Plum Creek, Brown County, ID 4546-02-00	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
CTH FF over Beaver Creek, Jackson County, ID 7321-00-00	✓	✓	✓	✓	✓		✓	✓	✓		✓	
CTH G over Long Lake Inlet, Iron County, ID 9352-00-00	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
CTH HH over Clear Creek, Eau Claire County, Locally Funded	✓	✓	✓	✓	✓		✓	✓			✓	
CTH HH over Otter Creek, Eau Claire County, Locally Funded			✓		✓		✓	✓		✓	✓	
CTH K over Eau Claire River, Eau Claire County, Locally Funded				✓	✓			✓			✓	
CTH M over Fenwood Creek, Marathon County, Locally Funded	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
CTH N over Little Sandy Creek, Marathon County, Locally Funded	✓	✓	✓	✓	✓		✓	✓			✓	
CTH NN over Spring Creek, Barron County, ID 8817-00-00	✓	✓	✓	✓	✓		✓	✓	✓		✓	
CTH S over Scott Hollow Creek, Vernon County, ID 5289-00-00	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓
CTH S over Grand River, Green Lake County, ID 6597-00-00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CTH T over Turton Creek, Trempealeau County, ID 7178-00-00	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
CTH V over Bower Creek, Brown County, ID 4603-05-00	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
CTH X over Fischer Creek, Manitowoc County, ID 4308-10-00	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Eddy Street over UPRR, Eau Claire County, ID 7995-02-40		✓		✓	✓	✓	✓	✓	✓	✓	✓	
Jefferson Street Bridge, City of Burlington, WisDOT ID 3834-00-02	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
N. Harrison Hollow Rd. over Harrison Creek, Vernon County, ID 5407-00-00	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
River Road over Branch W. Fork Kickapoo River, Vernon County, ID 5289-00-03	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓
STH 70 / S. Fork Flambeau River Bridge, Price County, WisDOT ID 8747-06-70	✓			✓	✓	✓	✓	✓	✓	✓	✓	
USH 14 over Brewery Creek, Village of Cross Plains, Dane County, WisDOT ID 5310-02-70			✓	✓	✓	✓					✓	✓
W. Washington Road over the Meeme River, Manitowoc County, WisDOT ID 4313-09-00	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓

References

Mark Holsen, Highway Commissioner
Manitowoc County
920.683.4345
marcholsen@co.manitowoc.wi.us

Al Rinka, Highway Commissioner
Trempealeau County
715.538.4799
al.rinka@co.trempealeau.wi.us

Phil Hewitt, Highway Commissioner
Vernon County
608.637.5452
phil.hewitt@vernoncounty.org

Jon Johnson, Highway Commissioner
Eau Claire County
715.839.2952
jon.johnson@co.eau-claire.wi.us

> "Nice job on the early completion. Great to see us meet our commitments on time and on budget on such a high profile project."
>
> Mark Gottlieb, Secretary, WisDOT, W. McKinley Avenue Storm Sewer Relocation

PROJECT APPROACH & SCHEDULE

Bridge Stats: CTH Q over Grand River	
Bridge Number	P-24-33
Year Built	1925
Bridge Length	25.4 feet
Bridge Clear Width	25.1 feet
ADT	374 vpd (2015 data)
Abutment Type	Full-Retaining Concrete
No. of Spans	1 (Concrete Slab)
Skew Angle	0 degrees
Inventory Rating	HS11
Operating Rating	HS19
Bridge Posting	45 TONS
Sufficiency Rating	40.3
Last Inspected	September 24, 2018

Project Approach

We believe addressing the following key issues will be essential for the success of this project:

Environmental Concerns

- Emergent/wet meadow wetlands are present in all quadrants - impacts, as well as additional concerns will be coordinated with Jay Schiefelbein (WisDNR) and Kyle Zibung (Army COE)
- ***Endangered nearby species include Rusty Patched Bumble Bee and Northern Long-Eared Bat. CORRE will coordinate site-specific concerns with WisDNR and the USFWS, and incorporate requirements into the plans and construction specifications***

Proposed Structure

- CTH Q is Functionally Classified as a Minor Collector
- ***Structure and approaches will fall within C3 Design Class Criteria, meaning a 28.0-foot clear width between Type 32SS concrete parapets can be expected***
- ***We anticipate a single-span concrete slab structure at this location***
- Will utilize parallel wing walls to minimize or avoid right of way encroachments
- ***As a result of recent experience designing the nearby/downstream CTH S structure, we anticipate a 100-yr design flow of approximately 980 cubic feet per second (cfs)***
- We do not believe scour will be an issue at this site

Utility Concerns

- ***Overhead facilities are present along both the west side of CTH Q and above the existing structure, and conflicts are expected***
- ***Buried utilities are likely present and will be picked up during survey operations***

Right of Way

- The existing right of way width is approximately 66.0' through the project limits
- ***Right of way impacts are expected due to the width of the proposed typical section***
- CORRE has right of way plat specialists and acquisition agents on staff

Proposed Project Schedule

Milestone	Date
Notice to Proceed	**Jul 2019**
Submit Prelim Bridge Plans	**Dec 2019**
Submit 30% Approach Plans	**Dec 2019**
Public Involvement Meeting	Jan 2020
Approved Environmental Document	Jan 2020
Submit DSR & 60% Plans	**Apr 2020**
Submit Draft R/W Plat (if req'd)	Apr 2020
Approved Final R/W Plat (if req'd)	Jul 2020
Submit 90% PS&E Documents	**Aug 1, 2020**
Final Structure Plan Submittal	**Sep 1, 2020**
Final Rdwy Plans/PS&E Submittal	**Nov 1, 2020**
Project LET	**Mar 9, 2021**

Jessica Lewis, PE

Project Manager

Ms. Lewis offers over 18 years of experience in the planning, design, and management of transportation, public works, and construction engineering projects for both WisDOT and local government. Her exceptional organizational and communication skills allow her to successfully manage complex multi-jurisdictional reconstruction projects.

Areas of Expertise

- Urban roadway planning and design
- Rural roadway planning and design
- Project management
- WisDOT processes
- Intersection and roundabout design
- Pavement design
- Utility design
- Multi-use trail planning and design
- Municipal design engineering
- CMAQ Program
- Community sensitive design
- Trans 201 approval process
- Multi-jurisdictional coordination
- Traffic control/construction staging
- Regulatory agency coordination
- Public involvement

EDUCATION

BS, Civil Engineering

PROFESSIONAL LICENSES/ REGISTRATIONS

Professional Engineer (PE): WI

PROFESSIONAL AFFILIATIONS

ASCE American Society of Civil Engineers

CONTINUING EDUCATION/ TRAINING

Public Policy Involvement: Current and Future, ASCE, Spring Technical Conference

Traffic Engineering Workshop and Transportation Planning Forum, ITE

Urban Planning and Transportation, ASCE

State Standard Specification Update Training, WisDOT

Mechanistic Pavement Design for Wisconsin, ASCE

Freeway and Interchange Geometric Design, ITE

Roundabout Design, FHWA and WisDOT

NEPA and the Transportation Decision Making Process, NHI

Roadside Safety Design, NHI

Project Experience

Bridge Design

- CTH S over the Grand River, Green Lake County, WisDOT ID 6597-00-00. Bridge replacement; Construction Cost: $400K.
- CTH X over Fischer Creek, Manitowoc County, WisDOT ID 4308-10-00. Bridge replacement; Construction Cost: $340K.
- Jefferson Street Bridge over the Fox River, City of Burlington, Racine County, WisDOT ID 3834-00-02. Bridge replacement; Construction Cost: $1.7M.
- STH 50 Main Street Bridge over the White River, City of Lake Geneva. Bridge replacement; Construction Cost: $300K.
- Fox Isle Drive Bridge over the Fox River, WisDOT ID 2698-00-01, Racine County. Bridge replacement; Construction Cost: $530K.
- Lathrop Avenue Bridge over Sorenson Creek, Racine County, WisDOT ID 3240-06-01. Bridge replacement; Construction Cost: $275K.

WisDOT Local Program Design

- Short Street, City of Eau Claire, Eau Claire County, WisDOT ID 7995-02-51. Urban reconstruction; 0.7 Miles; Construction Cost: $1.5M.
- 39th Avenue, Kenosha County, WisDOT ID 3729-00-04. Urban reconstruction; 0.7 mile; Construction Cost: $2.2M.
- N. 60th Street, Milwaukee County, WisDOT ID 2595-00-00. Rural rehabilitation; 0.5 Miles; Construction Cost: $800K.
- CTH Y, Oneida County, WisDOT ID 9465-00-00/01. Rural rehabilitation; 4.0 Miles; Construction Cost: $3.0M.
- 124th Street, Waukesha/Milwaukee Counties, WisDOT ID 2175-07-00. Urban reconstruction and rural rehabilitation; 1.0 Miles; Construction Cost: $2.2M.
- Taylor Avenue, Racine County, WisDOT ID 2704-00-72. Rural resurfacing; 0.36 Miles; Construction Cost: $226K.
- Lathrop Avenue, Racine County, WisDOT ID 2704-00-01. Rural resurfacing; 1.5 Miles; Construction Cost: $500K.

Eric Price, PE

Hydrology/Hydraulics & Structural QA/QC

Mr. Price has over 16 years of experience and manages bridge replacement and rehabilitation projects that include planning, developing, and designing a wide variety of structure-related facilities. Mr. Price designs all types of highway, railroad, and stream crossing structures, and has served as project manager or structural engineer on a wide variety of bridge projects ranging from large highway and railroad structures to unique pedestrian structures. His experience includes the design of over 155 structures that range from less than 20 feet to over 7,600 feet in length. Eric also prepares proposals and agreements, including scoping documents and budgets. His experience encompasses total project development: preliminary design and recommendations, report writing and preparation, agency coordination and final design, and preparation of construction contract specifications and bid documentation.

EDUCATION

BS Civil Engineering

PROFESSIONAL LICENSES/ REGISTRATIONS

Professional Engineer (PE): WI, IA

NCEES Record

FHWA/WisDOT Certified Bridge Inspector

PROFESSIONAL AFFILIATIONS

ASCE American Society of Civil Engineers

AISC American Institute of Steel Construction

CONTINUING EDUCATION/ TRAINING

Bridge Inspection Update Training, WisDOT, 2014

Safety Inspection of In-Service Bridges, FHWA, 2014

Estimating WisDOT Proposals, WisDOT Central Office, 2013

Use of Stainless Steel Reinforcement in Highway Structures, WisDOT Bureau of Structures, 2013

Fundamental and Structural Analysis for Curved and Skewed Steel Bridges, FHWA, 2012

WisDOT LRFD Retaining Wall Design, WisDOT Bureau of Structures, 2011

Railroad Bridge Engineering, UW – Madison Extension, 2011

Areas of Expertise

- Highway, railroad and pedestrian structure design
- Rural freeway and interchange structure design
- WisDOT BOS procedures
- Project management
- Complex staging
- Bridge inspection
- Accelerated bridge construction
- Complex steel structures

Project Experience

- CTH D over Plum Creek, Brown County, ID 4546-02-00
- CTH D over Big French Creek, Trempealeau County, ID 7146-00-00
- CTH M over Fenwood Creek, Marathon County
- River Road over Branch W. Fork Kickapoo River, Vernon County, ID 5289-00-03
- CTH X over Fischer Creek, ID 4308-10-00, Manitowoc County
- CTH S over the Grand River, ID 6597-00-00, Green Lake County
- W. Washington Road over Meeme River, Manitowoc County, ID 4313-09-00
- N. Harrison Hollow Rd over Harrison Creek, Vernon County, WI
- Jefferson Street Bridge, City of Burlington, ID 3834-00-02
- CTH G over Long Lake Inlet, Iron County, ID 9352-00-00
- Cramer Lake Road over Turtle River, Iron County, ID9828-00-00
- CTH NN over Spring Creek, ID 8817-00-00, Barron County
- CTH FF over Beaver Creek, ID 7321-00-00, Jackson County
- CTH T over Turton Creek, ID 7178-00-00, Trempealeau County
- CTH B over E. Branch Eau Claire River, Langlade County, ID 9360-00-00
- STH 70/S. Fork Flambeau River Bridge, ID 8747-06-70, Price County
- CTH A over Sioux Creek, Barron County
- CTH AA over Otter Creek, ID 7824-00-1, Eau Claire County
- CTH S over Scott Hollow Creek, Vernon County, ID 5289-00-00
- CTH D over Beaver Creek, Trempealeau County, ID 7146-00-00
- USH 14 over Brewery Creek, ID 5310-02-70, Dane County

Scott Koffarnus, PLS

Surveyor and Plat Specialist

Mr. Koffarnus is a Professional Land Surveyor (PLS) with experience in construction, design and boundary surveying. He has worked on a wide range of projects, from small to large and rural to urban. Scott specializes in right of way plats, topographic surveys, construction staking, and Certified Survey Maps (CSMs). He does research and prep work, field work, survey computations, drafting, and provides QA/QC. Scott communicates well with clients and project team members. He is hard-working and detail orientated which keeps his projects on schedule and on budget.

Scott utilizes LiDAR scanning, GPS, robotics and auto levels in the field. He knows which equipment is appropriate for each task to efficiently and accurately acquire the survey data required for a project. In the office he uses Trimble Business Center to perform survey data adjustments and Autodesk products for drafting and survey deliverables.

EDUCATION

AS: Civil Engineering Technology

Engineering Coursework

PROFESSIONAL LICENSES/ REGISTRATIONS

Professional Land Surveyor (PLS): WI

HTCP Certifications: NUCDENSITY, PCCTEC-I, TMS

PROFESSIONAL AFFILIATIONS

WSLS Wisconsin Society of Land Surveyors

MASC Madison Area Surveyors Council

NSPS National Society of Professional Surveyors

CONTINUING EDUCATION/ TRAINING

Control Systems, WSLS

Datums and Standards, WSLS

Datum Readjustments, WSLS

Surveys and Coordinates, WSLS

Wisconsin Public Trust Doctrine/Riparian Rights, WSLS

Highway and Railroad Boundary Issues, WSLS

Areas of Expertise

- Client communication
- Field staking
- Records research
- Legal and easement descriptions
- GPS, TotalStation, and Robotics
- Boundary, topographic, and ALTA surveys
- Plats
- Certified Survey Maps (CSMs)
- The Public Land Survey System (PLSS)

Project Experience

Structure Projects

- CTH D over Plum Creek, Brown County, ID 4546-02-00
- CTH S over the Grand River, Green Lake County, ID 6597-00-00,
- CTH X over Fischer Creek, Manitowoc County, ID 4308-10-00,
- River Road over Branch W. Fork Kickapoo River, Vernon County, ID 5289-00-03
- Jefferson Street Bridge, City of Burlington, Racine County, ID 3834-00-02
- CTH S Bridge, Town of Liberty, Vernon County, ID 5289-00-02
- CTH M Bridge, Town of Wien, Marathon County
- USH 14 over Brewery Creek, Village of Cross Plains, Dane County
- N. Harrison Hollow Road over Harrison Creek, Town of Viroqua, Vernon County
- Waukesha to Brookfield Connector Trail, Waukesha County
- W. Washington Road Bridge Replacement, Manitowoc County

GREMMER & ASSOCIATES

EXPERTISE AND EXPERIENCE IN BRIDGE REPLACEMENT PROJECTS

Gremmer & Associates has a proven track record for providing excellent service and quality highway and bridge design services to WisDOT, Counties, and Towns statewide for over 40 years. We have a total staff of 30, including 15 engineers, 2 Professional Land Surveyors, and 10 engineering specialists/technicians. We have extensive experience designing transportation projects that are administered and let under WisDOT oversight, and as a result our staff is very familiar with WisDOT and FHWA procedures. Approximately 90 percent of our business consists of municipal and transportation projects for municipalities, counties and WisDOT. Gremmer has designed over 50 bridge replacement projects and over 100 WisDOT oversight transportation projects over the last 20 years. Our structure design history includes flat concrete slabs, haunched concrete slabs, prestressed concrete girders, and box culverts, with total structure lengths ranging from 23 feet to 174 feet. We have designed one, two, and three span structures and can adequately match the site conditions and cost constraints of the subject bridge replacement projects to the most efficient structure type and design. We will utilize our past structure experience to develop several alternatives for the replacement structure and present the various alternatives to the local stakeholders as we seek their input on selection of the final structure type and layout.

Our company structure is unique in that we don't have a dedicated marketer on staff, so the primary way we get business is to do a great job on a project which translates into repeat work. This business model has served us well over the 40 years Gremmer has been in business. Furthermore, our Fond du Lac location gives us more opportunities to visit the project site, or to meet with Green Lake County staff, which results in less time and expenses charged to the project. One other significant item that sets us apart from others is that the owner and president of our firm (Tom Lanser) will be the Project Manager for the work. As a result of Tom's understanding of the schedules for all design projects in the company, he can easily shift personnel priorities quickly and seamlessly to meet project schedules.

PREVIOUS PERFORMANCE ON OTHER WISDOT LOCAL PROGRAM PROJECTS

One recent WisDOT Local Program project that demonstrates our firm's experience and capabilities in providing services on a local program project is our recent CTH VV projects in Fond du Lac County. These two projects were as complex as "local program" projects can get as the combined projects consisted of a $15+ million rural to urban reconstruct project with a new grade separated roadway/railroad underpass, three roundabouts, and a significant stream crossing bridge replacement. **The original project was selected as the statewide winner of the "Consultant Urban Design" category at the 2014 WisDOT Transportation Improvement Conference, while the subsequent project was selected as the statewide winner of the "Local Program" category at the 2018 WisDOT Transportation Improvement Conference.** It's quite rare for a "local program" design project to win the statewide "Consultant Urban Design" category, due to the heavy competition it faces going against larger on-system projects. This is a testament to the quality design and excellent service that we provided for this award winning project. This demonstrates our proven track record for providing quality designs for WisDOT oversight projects. Other excerpts from some of our previous WisDOT "local bridge program" projects are as follows:

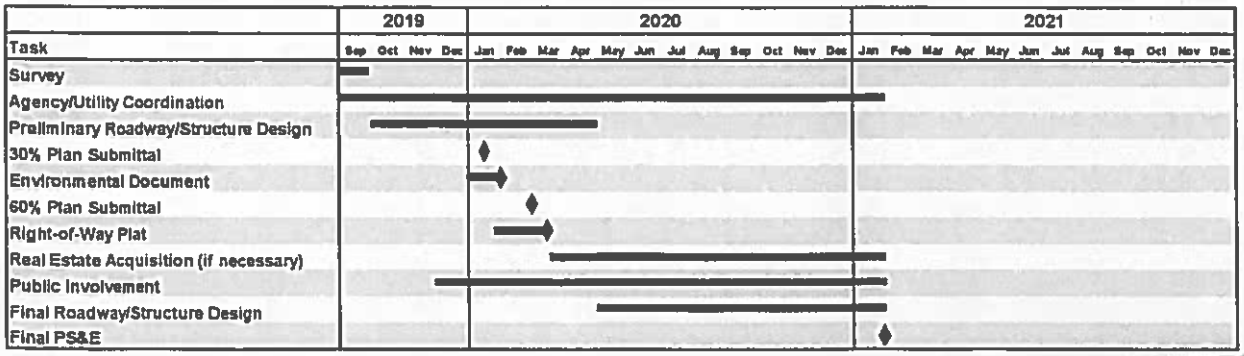
"Tom (Lanser) is a pleasure to work with. He has the WisDOT/Local Program down to a science."

"Very good at communicating issues to both the County, Department, and the public. Design was done quickly and effectively with a practical approach. Consultant was aware of the Department's processes and sought out expectations prior to submitting."

"The quality and completeness of the final plans were very good, making my review much easier. (Gremmer's) staff is very familiar with the DOT process and did an excellent job of producing a design package to be let for construction."

SCHEDULE

The following is a draft schedule with milestones for a typical WisDOT Local Bridge Program project. This schedule can be modified to meet the programmed schedule and expectations of Green Lake County.



RECENT SIMILAR WISDOT LOCAL BRIDGE PROJECT EXPERIENCE

Project ID 6435-03-00 (scheduled for 2019 construction) Nekimi Avenue; Bridge over Weyhurst Creek Town of Nekimi, Winnebago County Key design staff: Tom Lanser, Andy Klemp, Ryan Arndt, Jeff Chvosta, Jay Panetti WisDOT & Local contact: Tim Verhagen (WisDOT LPM): (920) 362-1267 Glen Barthels (Town of Nekimi): (920) 410-1579 Scope: Replacement of a single span 34' long bridge with a new 49' long single span flat concrete slab bridge	**Project ID 6446-00-00 (2018 construction)** South Road; Bridge over Rat River Town of Wolf River, Winnebago County Key design staff: Tom Lanser, Andy Klemp, Ryan Arndt, Ben Oitzinger, Jay Panetti WisDOT & Local contact: Brian Edwards (WisDOT LPM): (920) 360-2801 Randy Rutten (Town of Wolf River): (920) 810-8097 Scope: Replacement of a three span 94' long bridge with a new 108' long two span haunched concrete slab bridge
Project ID 6482-02-00 (2018 construction) Olden Road; Bridge over Fond du Lac River Town of Rosendale, Fond du Lac County Key design staff: Tom Lanser, Andy Klemp, Ryan Arndt, Jeff Chvosta, Jay Panetti WisDOT & Local contact: Brian Edwards (WisDOT LPM): (920) 360-2801 Tom Janke (FDL County): (920) 929-3488 Scope: Replacement of a single span 21' long bridge with a new 30' long single span flat concrete slab bridge	**Project ID 4080-06-00 (2014 construction)** Melody Lane; Bridge over Anderson Creek Town of Friendship, Fond du Lac County Key design staff: Tom Lanser, Andy Klemp, Ryan Arndt, Jeff Chvosta, Jay Panetti WisDOT & Local contact: Brian Edwards (WisDOT LPM): (920) 360-2801 Tom Janke (FDL County): (920) 929-3488 Scope: Replacement of a single span 22' long bridge with a new 35' long single span flat concrete slab bridge

PROJECT UNDERSTANDING

The general design approach on all bridge replacement projects is to balance the standards from WisDOT and WDNR with the goals of the local public agency. As a result, our project approach is to initiate conversations with each of the stakeholders very early on in the design process to identify the key factors that will determine the structure selection process. The typical structure selection process is based primarily on the following factors:

1.) Roadway alignment/profile/geometry
2.) Hydraulic sizing
3.) WDNR concerns/requirements
4.) Real estate impacts
5.) Economics (a culmination of the four above factors)

The CTH Q bridge is located on a horizontal tangent with no vertical concerns. The alignment of the abutments will be reviewed to determine if they should be skewed to better fit the stream's low-flow morphology or to better pass high flows. Abutment alignment and armoring with heavy riprap are practices to reduce scour and protect the structure. WDNR preference for structures typically lies within the need to minimize the disturbance to the stream and any adjacent wetlands. Preserving a portion, or all of the channel bottom (bankfull width), extent of fill slopes for a particular type of structure, and known aquatic habitat in the stream are factors considered by the WDNR when suggesting the type of new structure for a location. Real estate impacts are always a consideration on bridge replacement projects. Beam guard standards have changed over the years, with the new standards requiring more grading than what was required years ago, which results in additional real estate acquisition needs.

Economics will most likely be the driving force that will influence the structure selection for the CTH Q project. Although different types of structures may be considered, the final cost will be heavily influenced by the size required for each alternative structure type. The size or length is minimized for stream crossings so that the new structure does not aggravate flooding (State Code NR 116). The minimum structure costs for each different type of structure (slab, girder, etc) are combined with the other non-structure related costs (roadway approach, real estate, utility relocation, etc.), and then compared to make a sound engineering and economic decision.

KEY STAFF QUALIFICATIONS

Project Manager: Thomas Lanser, P.E.

Tom is a Project Manager and President of Gremmer & Associates, Inc. He manages the Fond du Lac office, and has 29 years of experience designing and managing highways and bridges under the WisDOT process. Tom has been the Project Manager for over 50 bridge projects statewide, with the majority being for Counties and Towns under WisDOT's local bridge program. His recent bridge replacement project experience includes the Nekimi Avenue and South Road bridge replacements in Winnebago County, the CTH A bridge replacement project in Ozaukee County, and the Olden Road and Melody Lane bridge replacement projects in Fond du Lac County. Tom will be responsible for managing the project, client relations, public involvement, quality control, and supervising Gremmer & Associate's staff.

Project Engineer: Andy Klemp, P.E.

Andy is a Project Engineer with 22 years of experience in designing highway and bridge projects statewide. His expertise includes preliminary structure design, structure hydraulics, drainage and erosion control design, and environmental permitting for transportation projects. He has provided the preliminary structure design and structure hydraulics for over 35 WisDOT bridge replacement projects statewide. Andy started his career by working at both WDNR and the WisDOT Bridge Office. The knowledge gained, and almost more importantly the relationships forged, that Andy developed at these state agencies provide him with an understanding of how things work "behind the curtain" at these agencies that other Project Engineers don't have. Andy's recent bridge replacement experience includes the Nekimi Avenue and South Road bridge replacements in Winnebago County, the CTH A bridge replacement in Ozaukee County, and the Olden Road, Melody Lane, Doty Street, and Grove Street bridge replacement projects in Fond du Lac County. Andy is also currently serving as the project engineer for three WisDOT Local Bridge Program projects in Fond du Lac County. Andy will be responsible for the day-to-day management of the project, structure hydrology and hydraulics, preliminary structure sizing, agency coordination and permitting, design reports, and delivery of the PS&E documents for the project.

Lead Structure Design: Ryan Arndt, P.E.

Ryan is a Project Engineer with 13 years of experience in construction inspection and design of WisDOT roadways and structures. Ryan's recent structure design experience includes the Nekimi Avenue and South Road bridge replacements in Winnebago County, the CTH S and CTH F bridges in Portage County, the CTH A bridge replacement project in Ozaukee County, and the Olden Road, Melody Lane, Doty Street, and Grove Street bridge replacement projects in Fond du Lac County. Ryan integrates his construction inspection experience into his structure designs to produce an economical and practical design. Ryan will be responsible for the structure design for the project.

Roadway Design Engineer: Jeff Chvosta, P.E.

Jeff is a Project Engineer with 16 years of experience in designing and managing urban and rural transportation projects. Jeff has served as a design engineer and project engineer for numerous roadway and bridge projects statewide, with extensive expertise in roadway design under the WisDOT design process. Jeff will be responsible for the preliminary and final design of roadway approaches for the project.

Project Surveyor: Jay Panetti, R.L.S.

Jay is a Professional Land Surveyor with 20 years of experience in surveying and preparing right-of-way plats for WisDOT highway and bridge projects. He is the Survey Coordinator for Gremmer's Fond du Lac Office, and is responsible for setting horizontal and vertical control, determining existing right-of-way, and preparing right-of-way plats for all transportation projects out of the Fond du Lac office. Jay was the lead surveyor for all previous bridge replacement projects out of Gremmer's Fond du Lac office. Jay will be responsible for the design survey and right-of-way plat needs (if required) for the project.

REFERENCES

Scott Schmidt
Washington County Highway Dept.
(262) 335-6881

Tom Janke
Fond du Lac County Highway Dept.
(920) 929-3488

Jon Edgren
Ozaukee County Highway Dept.
(262) 238-8335

Brian Edwards
WisDOT NE Region Local Program Project Manager
(920) 360-2801

Pete Thompson
Dodge County Highway Dept.
(920) 386-3655

Nathan Check
Portage County Highway Dept.
(715) 345-5230

JEWELL ASSOCIATES ENGINEERS, INC.

JEWELL
associates engineers, inc.
Engineers - Surveyors - Architects

June 14, 2019

Mr. Barry Mashuda, Highway Commissioner
Green Lake County Highway Department
570 South Street
Green Lake, WI 54941-0159

Re: Project ID: 6605-00-00/70
CTH Q Grand River Bridge P-24-0033
Town of Green Lake

Jewell Associates Engineers, Inc. is pleased to submit our qualifications for professional engineering design services for the above described project in Green Lake County.

Jewell Associates Engineers, Inc., located in Spring Green and Wisconsin Rapids, Wisconsin, provide a wide range of civil engineering services for local and county governments, the State of Wisconsin and private sector clients. We have provided professional civil engineering services on many similar projects throughout the State of Wisconsin and have worked very closely with county, state, and local officials. Our team has the expertise, experience, and workload capacity necessary to produce the required deliverables for this project within budget and schedule. Our staff also has the capacity to accelerate this project if desired by the County.

Jewell Associates Engineers, Inc. is listed on the WisDOT eligibility list of approved consultants, and we have worked on numerous Local Bridge Program projects that were funded with Federal funds and administered by the Wisconsin Department of Transportation. Our team members are knowledgeable and experienced with following the Wisconsin Department of Transportation's Facilities Development Manual (FDM) and all WisDOT design standards and requirements.

We would be pleased to work with Green Lake County Highway Department on this project. If you have any questions about the submitted materials or would like additional information, please contact me at (608) 341-8239 or scott.whitsett@jewellassoc.com. Thank you for considering Jewell Associates Engineers, Inc. for this project.

Sincerely,
Jewell Associates Engineers, Inc.

Scott Whitsett, PE
Sr. Vice President

560 Sunrise Drive, Spring Green, WI 53588 *phone: 608/588-7484 fax: 608/588-9322*

Expertise and Experience

Bridge projects were among the company's first undertakings when Jewell Associates began in 1993, and bridges continue to be a mainstay of our business. Our structural engineers are experienced with a wide variety of structure types for crossings over waterways, railroads and highways. We also design box culverts and pipe culverts for locations where these types of structures are appropriate and cost effective. Our engineers utilize LRFD (Load Resistance Factor Design) and all the applicable standards and procedures required by the Wisconsin Department of Transportation (WisDOT), the Federal Highway Administration and the American Association of State Highways and Transportation Officials. We provide bridge design services for counties and local governments throughout Wisconsin and to all regions of WisDOT.

Scott Whitsett, PE will be the Project Manager for this project. Scott has 16 years of experience in transportation design, stormwater plan design and construction engineering. His experience includes project coordination with staff managers in each discipline, review plans, surveys, production drawings and field work activities. Scott will oversee the plans, specifications and estimates for this project. He will supervise all staff on the project so that it is completed as required by the scope of work, while monitoring the project budget.

Tom Romenesko, PE will be the Structural Lead Engineer for this project. With 35 years of experience, Tom has served as the Structural Manager for hundreds of bridge replacement projects located on State, County and local highways all over Wisconsin. These projects include rural and urban type improvements ranging from minimal length to many miles. Various projects included special design issues including: wetland mitigation, vertical and horizontal realignments, intersection improvements, utilities, fish habitat, historic structure replacement, special loadings, hazardous waste, traffic signals and railroad crossings.

Patrick Boland, PE will be a Design Engineer for this project. Patrick has 22 years of experience with structural design for urban and rural bridges and culverts, as well as having major involvement with hydraulic and hydrological calculations for transportation structures of all sizes. He has been the design engineer for many bridge replacement projects located over waterways on State, County and local highways. These projects include rural and urban type improvements. Various projects included special design issues including: wetland mitigation, vertical and horizontal realignments, intersection improvements, utilities, fish habitat, hazardous waste, traffic signals and railroad crossings.

Robert Hanold, PE will be a Design Engineer for this project. Robert is a highly capable design engineer with seven (7) years of experience on a variety of transportation projects with an emphasis on highway bridges in both urban and rural settings. All bridges are designed according the standards and process outlined in the WisDOT Facilities Development Manual, the WisDOT Bridge Manual and all applicable FHWA requirements. His project experience includes: structure and approach design, erosion control, environmental documents, wetlands, traffic control, utility and agency coordination. Robert is also very effective in the provision of construction engineering services on WisDOT projects.

Noah Anliker will be the Surveyor for this project. Mr. Anliker has 11 years of experience and provides construction observation and inspection services for WisDOT, rural, and urban projects. As a surveyor he produces Certified Survey Maps, Plats of Survey, Condominium Plats, Right-of-Way Plats, Transportation Project Plats, Subdivision Plats, and legal descriptions.

Subconsultants
American Engineering Testing, Inc., will provide soil testing for this project.

References

Dennis Pelock, Commissioner
Crawford County Highway Dept.
608-734-9500
ccommish@centurytel.net
(18 Local Bridge Projects)
(10 State Highway Bridge Projects)

Grant Bystol, Commissioner
Shawano County Highway Dept.
(715) 526-9182
Grant.Bystol@co.shawano.wi.us
(1 Local Bridge Project)

Chris Hardy, PE, Commissioner
Columbia County Highway Dept.
(608) 429-2136
Chris.Hardy@co.columbia.wi.us
(2 Local Bridge Projects)
(4 State Highway Bridge Projects)

Jay Borek, Commissioner
Jackson County Highway Dept.
715-284-5615
jay.borek@co.jackson.wi.us
(4 Local Bridge Project)

Craig Hardy, PE, Commissioner
Iowa County Highway Dept.
608-935-3381, extension 605
608-574-2935 (cell)
craig.hardy@iowacounty.org
(17 Local Bridge Projects)
(4 State Highway Bridge Projects)

Mark Beuning
USDA Forest Service
715-362-1377
mbeuning@fs.fed.us

Projects

	Sheep Ranch Road, Price County (B-50-0088) This single-span prestressed concrete girder structure was constructed in 2017 at a cost of $396,000 to replace a deficient structure over the Elk River in the Town of Worcester. The new bridge spans 68.67 feet and has a 24-foot clear width. The total project length was 307 feet. *Project team: Scott Whitsett, Patrick Boland, Robert Hanold, Tom Romenesko, Noah Anliker*
	CTH M, Shawano County (B-58-0132) This two-span reinforced concrete haunched slab bridge will be constructed in 2020 at an estimated cost of $807,436. It will replace a deficient structure over the South Branch Embarrass River in the Town of Fairbanks. The new bridge spans 96 feet and has a 30-foot clear width. *Project team: Scott Whitsett, Tom Romenesko, Patrick Boland, Robert Hanold, Fred Gruber, Noah Anliker*
	CTH H, Jackson County (B-27-0164) This single-span reinforced concrete flat slab bridge was constructed in 2017 at a cost of $310,777. It was built over Douglas Creek and spans 36 feet. This project involved grading, base aggregate dense, asphaltic surface, removing old structure over waterway with minimal debris Station 4+50, and riprap heavy. CTH H was closed to through traffic during construction operations. *Project team: Scott Whitsett, Patrick Boland*
	CTH X, Jackson County (B-27-0165) This single-span prestressed concrete girder structure over Trout Run Creek will be constructed in 2020 at an estimated cost of $340,000. It spans 36 feet. *Project team: Scott Whitsett, Patrick Boland, Robert Hanold, Tom Romenesko*

Project Understanding and Approach

After meeting with Highway Commissioner Barry Mashuda, we have the following project understanding. The existing CTH Q will be removed and replaced with a new concrete single-slab span structure that has a 28-foot clear bridge width and 42-foot bridge length. The proposed structure will likely be built on a skew, to better align with the Grand River and prevent future scouring. CTH Q has a history flood waters that overtop at both the existing structure and several low spots away from the existing bridge. Jewell will evaluate if raising the proposed profile (while accounting for the increased structure opening) will help prevent future overtopping along CTH Q. With this being said, if the profile is raised there is a potential for increased funding that is needed. Jewell has experience and expertise to aid the County with a Change Management request, so that additional funding can be received for the project.

The four bridge examples we have listed above, were locally/federally funded projects and similar in design, reports and agency coordination to the CTH Q bridge replacement project currently being solicited by Green Lake County. Throughout the past 25 years of business, Jewell has incorporated upcoming changes to any program by subscription to the WisDOT Facilities Development Manual where all changes and processes are documented.

We also belong to several associations where we can learn of changes to any the funding programs. We are active members with the Wisconsin County Highway Association (WCHA), Wisconsin Transportation Builders Association (WTBA) and the American Council of Engineering Companies (ACEC). All are valuable resources to learn of changes not only on the State level, but the National level as well.

At any point in time we have several projects from different local governments under design. Any change is incorporated into all projects, making any change easy for all our work. No one client bears the load of waiting for us to learn and adapt to a new change.

Key Work Plan Elements

Some of the key elements of our work plan for developing the project follow:

1. Gather information
    a. Operational Planning Meeting
    b. Prepare Public Involvement Plan
    c. Survey
    d. Utility Locates
    e. Prepare plan base sheets
    f. Notification and coordination with the DNR, State Historical Preservation Officer (SHPO), and US Army Corps of Engineers
    g. Wetland Investigation if required
    h. Complete Hazardous Materials review of project

2. Structure Survey Report
    a. Prepare hydrology calculations and send to WisDOT for concurrence
    b. Prepare bridge alternative study and impacts of each alternative
    c. Prepare hydraulics for each alternative
    d. Prepare approach geometry
    e. Prepare bypass roadway geometry if required
3. Prepare Preliminary Plan
    a. Order soil borings and review foundation report
    b. Make a recommendation of structure type with input from the Green Lake County Highway Department
    c. Prepare Environmental Report
    d. Prepare Pavement Design Report
    e. Prepare Design Study Report
    f. Review all information with the Green Lake County Highway Department
    g. With all information gathered, send Structure Survey Report and preliminary plans to WisDOT Local Project Manager and Bureau of Structures for review and concurrence
4. Prepare for and hold/attend Public Information Meeting to gather public comment for the project
    a. Prepare Displays
    b. Prepare News Releases
    c. Mailings
    d. Arrange for Meeting Accommodations
    e. Collect comments, discuss with the Green Lake County Highway Department
5. Preparation of Final Plans with all Required Sheets from RFP & Scope Document
    a. Preparation of final roadway plans
    b. Preparation of final structure plans
    c. Review final plans with Green Lake County Highway Department
    d. Develop PS&E documents for submittal to WisDOT Local Program Manager and after final review submit to WisDOT via e-submit
6. Be available for questions at anytime during the design process
7. Be available to answer questions during the let process

Schedule

General Bridge Design Schedule – Green Lake County Bridge Replacement Project*
TYPICAL BRIDGE REPLACEMENT PROJECT MILESTONES

TASK	Pre-Contract	July 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020
3–Party Contract Agreement	■											
Operational Planning Meeting		■										
Design Survey		■										
Agency/Utility Coordination		■							■	■		
Geotechnical Investigation & Soils Report			■									
Public Information Meeting(s)				■								
Hydrology & Hydraulics Structure Survey Report			■									
30% Plan Design and Submittal		■	■	■								
Preliminary Bridge Design and Submittal		■	■	■								
Environmental Document Submittal					■							
DSR/Exception to Standards/TMP/60% Plan					■							
Pavement Design Report				■								
Right of Way Plat (If Needed)						■						
Real Estate Negotiation (If Needed)							■	■				
Draft PS&E (90%) Preparation and Submittal									■	■	■	
Final Bridge Design and Submittal									■	■	■	
Final PS&E (E-Submit)												■

MSA PROFESSIONAL SERVICES, INC.

PROPOSAL FOR BRIDGE REPLACEMENT DESIGN OF CTH Q GRAND RIVER BRIDGE (P240033) PROJECT 6605-00-00/70

June 17, 2019

Barry Mashuda, Highway Commissioner
Green Lake County Highway Department
570 South Street
Green Lake, WI 54941

Dear Barry,

MSA Professional Services, Inc. (MSA) appreciates the opportunity to submit our proposal to provide design engineering services for the replacement of the CTH Q - Grand River Bridge in the Town of Green Lake. We have assembled a team of highly qualified individuals to assist Green Lake County with this important project. Our team members are familiar with WisDOT standards and have a thorough understanding of what a Local Bridge Program entails. Together, our team has successfully completed hundreds of Local Program bridge replacement projects for towns and counties throughout Wisconsin.

For your convenience, the following proposal is organized to follow the criterion items as listed in order in the RFP. Please do not hesitate to give me a call at (608) 355-8945 to further discuss our qualifications.

Sincerely,
MSA Professional Services, Inc.

Leah J. Rhodes, PE
Project Manager| Bridge Team Leader
1702 Pankratz Street | Madison, WI 53704

Expertise and Experience in Bridge Replacement Projects

The MSA team presented in this proposal has the experience, resources, and capacity to successfully complete this bridge project for Green Lake County. The team represents three core strengths at MSA which are: WisDOT Local Bridge Program experience, full design service resources, and capacity to do the work.

1. WisDOT Local Bridge Program Experience

In the past five years alone, MSA's bridge staff have completed more than 50 bridge projects to WisDOT standards following the requirements of the WisDOT FDM and the WisDOT Bridge Manual. **MSA has been involved with the Local Bridge Program since 1980.**

2. Full Design Service Resources

MSA is a full-service firm capable of handling the technical and professional demands of a Local Bridge Program project. What sets MSA apart is the in-house availability of these technical professionals to assist, guide, or perform work on the small, yet important aspects of a project that can develop outside of the bridge and roadway design elements. These professionals are located in the same office as our bridge and roadway design teams, assuring quick turnaround. Having these experts in house allows us to collaborate and develop solutions to issues as they arise.

3. Capacity

The proposed MSA design team, led by Leah Rhodes, has a staff of highly available engineers and technicians with experience in Local Program Bridge design projects. Additional engineers and technicians with Local Bridge Program experience are available in other offices across the state. The benefit of this depth of experience and number of experienced staff members is the flexibility to meet the project schedule and workload needs.

Existing CTH Q Bridge

Project Team

Leah Rhodes, PE
Project Manager

Josh Sweno, PE
Structural Engineer

Dan Wagner, PE
Senior Structural Engineer

Mark Harnois, PE
Hydraulic Engineer

Quirin Klink, PE
QA/QC

Similar Projects and References

Gillette Drive over Belle Fountain Creek | Green Lake County, WI

Reference Information : Aaron Wagner, Patrol Superintendent | Green Lake County Highway Department
(920) 294-4060 | awagner@co.green-lake.wi.us

The Town of Kingston needed to replace a structurally deficient set of metal culvert pipes that carried Belle Fountain Creek under Gillette Drive in Green Lake County. The culverts were severely deteriorated, and the masonry endwalls holding up the fill in between were beginning to fail.

Working in concert with both the Township and Green Lake Highway Department, MSA hydraulically sized and designed a single-span concrete flat slab bridge to replace the deteriorated existing structure. The clear span bridge was chosen over a multi-cell box culvert or multiple pipes partly to allow the stream to flow

through uninterrupted, with less chance of debris blockage. A clear span bridge was also preferred by the WDNR for this environmentally sensitive site.

Shadow Road over Crystal River | Town of Lind, Waupaca County, WI

Reference Information : Steven Gall, Town Chairman | Town of Lind | (715) 258-7678

The Town of Lind needed to replace a structurally deficient single-span bridge carrying Shadow Road over the Crystal River in Waupaca County. The existing bridge was posted for a weight restriction of 45 tons and was in poor condition, showing increased signs of deterioration.

Working in concert with the Town, MSA hydraulically sized and designed a single-span concrete flat slab bridge to replace the deteriorated existing structure. Standard MGS beam guard was added at all four corners of the new bridge and the roadway curve within the project limits was updated to correct the superelevation. Wetlands were located in all corners of the bridge, with high-quality, rare wetlands in the southwest and southeast quadrants. To minimize fill placement in the wetlands, steeper slopes were detailed behind the beam guard with the use of soil stabilizer to prevent erosion. MSA also coordinated with the DNR to replace an existing boat access point in the northwest quadrant.

CTH X over the Sheboygan River | Manitowoc County, WI

Reference Information : Marc Holsen, Highway Commissioner | Manitowoc County Highway Department
(920) 683-4353 | marcholsen@co.manitowoc.wi.us

The single-span concrete slab bridge over the Sheboygan River Tributary was deteriorated and in need of replacement. MSA designed a new single-span flat concrete slab bridge on concrete sill abutments. The clear bridge width was increased to 34 feet to better accommodate the area agricultural traffic. Beam guard was extended off each bridge corner to meet current safety standards. Concrete approach slabs were used at each bridge end to minimize the bump effect for traffic and decrease maintenance over the life of the bridge. A new Type M steel railing was detailed to allow snow removal through the railing during the winter months.

Project Understanding and Approach

The CTH Q Bridge, constructed in 1925, is a reinforced concrete slab bridge over the Grand River. The structure is located within the Township of Green Lake and carries just under 400 vehicles per day (ADT), according to the 2018 bridge inspection report. It has a 25-foot clear roadway width and an overall length along the road of 25.4 feet. An overlay was added in 2017 to preserve the structure. This structure has several deficiencies including severe spalling and delamination on the slab and deterioration of the wingwalls, resulting in a load posting of 45 tons.

MSA will develop customized project plans for the CTH Q Bridge with the goal to complete the project in conformance with your expectations. We will use our bridge inspection and construction expertise to provide a cost-effective design for the project. Our project plan will be based upon a clear understanding of the design approach, including the following key design elements.

STRUCTURE TYPE & SIZE SELECTION

MSA will investigate multiple structure types and assist the County in selecting the most economical alternative. We will perform the hydraulic analysis early to determine the feasibility of a multi-cell box culvert structure versus a single-span slab bridge. We understand that water has overtopped the road under recent flood conditions; therefore, the selected structure type will need to withstand high water events.

MSA will coordinate with the County and WisDOT to determine the proposed clear bridge width based on the existing structure width, the approach roadway width, and the WisDOT Facilities Development Manual (FDM) guidance. An open steel railing could be utilized to simplify snow removal operations. A solid concrete parapet could also be considered if the roadway grade is at least 0.5% to facilitate drainage off the bridge.

ROAD APPROACHES

WisDOT requires that Local Bridge Program funds be used for the bridge itself plus a maximum of 50 feet of road approach reconstruction at each approach under the current Replace in Kind policy, unless additional funding is approved in the State Municipal Agreement or procured through the Change Management System. No changes are anticipated to the vertical or horizontal alignment of CTH Q; therefore, 50-foot approaches are assumed for this project. Approach beam guard is required by the FDM when the Average Daily Traffic (ADT) exceeds 400 vehicles per day. Based on this criteria and the presence of existing beam guard at the site, new beam guard is anticipated.

ENVIRONMENTAL & AGENCY COORDINATION

MSA will work to get agencies involved early in order to avoid delays with the environmental review. There are significant wetlands within the project construction limits. MSA will work with the DNR to provide solutions that minimize impacts.

The project is currently listed on the DOT's Screening List for history but not archaeology. MSA will coordinate with WisDOT to ascertain if the project can be added to the Screening List for archaeology as well, which would result in no further archaeology or history survey or documentation required. If the project is not eligible for screening, we will work with a subconsultant to perform a Section 106 archaeological survey.

UTILITIES

There are overhead electric and telephone utilities that run along CTH Q. The electric line cuts across the road directly over the bridge. There is also a buried gas line along the east side of CTHQ.

MSA will coordinate with the utilities early and often to resolve any conflicts prior to the start of construction.

RIGHT OF WAY

The existing right of way width across the structure is estimated at 66 feet. A new single-span slab bridge may be able to fit within the existing right of way width, which would avoid impacts to the adjacent DNR-owned Utley State Wildlife Area.

One differentiator for MSA is that we have in-house, certified real estate acquisition specialists who can assist with acquiring real estate or easements, if needed.

PUBLIC INVOLVEMENT

It is important to keep the public informed and involved to ensure a smooth construction process and a final product that meets their needs. A public involvement meeting will be held to discuss the project scope and answer any questions or concerns the public may have. MSA can also attend a Highway Committee meeting to gather input and update the local officials and attending public.

Schedule

Milestone	Survey	Preliminary Plans	Environmental Document	60% Plans & DSR	90% Plans	PS&E	Bid Letting	Construction
Completion Date	August 2019	January 2020	March 2020	April 2020	September 1, 2020	November 1, 2020	March 9, 2021	Summer 2021

SEH

SHORT ELLIOTT HENDRICKSON

Proposal for Engineering Design Services

Bridge Replacement of the CTH Q Grand River Bridge (P240033)

Green Lake County, Wisconsin | June 17, 2019

Firm Expertise and Experience

Short Elliott Hendrickson Inc. (SEH)

Contact: Chris Blum, Project Manager
608.219.0657, cblum@sehinc.com
6808 Odana Road, Suite 200
Madison, WI 53719-1137

SEH is a 100% employee-owned company with a strong presence in Wisconsin: of our 31 offices across 11 states, nine offices are located throughout Wisconsin. Our local structural team has a deep background in design, construction inspection and observation based on lessons learned from previous bridge projects. Our understanding of "how it's built" knowledge is transferred into "how it's designed" computations and plans. This ability is unique among design consultants in the region, and we're certain that we will provide the County with a quality set of plans that are constructible, efficient, cost-effective and long-lasting.

Our Wisconsin structural team has worked on **hundreds of bridge projects** in Wisconsin, many with similar parameters as your bridge. SEH is ranked 131 of the top 500 firms by *Engineering News Record* (ENR), and on *Roads & Bridges* magazine's Go-To List of Top Bridge Design Firms for eight years straight. They have experience undertaking complex projects that span from demolition to new construction. We implement the latest in structural design and technology to help deliver new, renovated and rehabilitated structures. Experienced, innovative and versatile – the SEH team brings stability and integrity to every structural project.

Familiarity with WisDOT Requirements

Every Local Program bridge project that SEH has designed has been in accordance with the WisDOT Facilities Development Manual (FDM). Furthermore, SEH served as the Local Program Management Consultant (LPMC) for WisDOT Northeast Region for the past 11 years, until the completion of the program in 2018.

Now that WisDOT has ended its LPMC program, WisDOT will provide less review of the documents that need to follow the FDM guidance, leaving more review responsibility to project sponsors and designers. With the SEH team at your side, Green Lake County can be sure that all Local Program requirements will be met and that we'll provide quality documents to WisDOT for the replacement of your bridge over the Grand River.

Project Team

Chris Blum, PE
Project Manager and Bridge Design Lead
Chris will serve as the overall project manager, overseeing the entire project and being your single source of information from start to finish. Chris is a leading bridge engineer who understands how constructability and design come together to produce a quality set of plans. He understands project variables such as sizing of bridge capacity, agency permitting, public involvement, wetlands and utility conflicts, and he knows what it takes to design a successful project.

Savannah Stehn, PE | Design Engineer
Savannah will design the roadway approaches and prepare the preliminary and final approach plans. She will provide agency and utility coordination and permitting, ensuring that all permits and documents are in place prior to construction, including final plans, specifications, estimate and bid package. She is very familiar with rural roadway design, and has worked with Chris on many roadway projects, including the CTH D bridge that SEH recently completed for Green Lake County.

Jason Cance, PLS | Right-of-Way Specialist
Jason will assist the project team with any special right-of-way needs, as well as land acquisition support services, if required. He will identify the limits of any required permanent land acquisition or temporary easements for sloping and construction activities. His documents and plan sheets will be used to acquire and record any required land interests.

Renee Wilde, PWS, CFM, CWS | Wetland Specialist
Renee is well-respected by WDNR for her work in preserving, protecting and restoring natural resources. For this project, **Renee will evaluate the natural resources surrounding the project areas,** including Utley State Wildlife Area. SEH research has determined that wetlands exist within the project limits. Renee will lead the wetland delineation and permitting of any wetland impacts.

Justin Shavlik, PE | Hydrology and Hydraulics
Justin will perform hydrology calculations on design flow of the Grand River. He will use the 100-year event flood and hydraulic values to provide suitable options for replacement structures that reduce scour, maintain backwater elevations, decrease flow velocity and increase waterway capacity.

Local Experience

CTH D over the White River

Green Lake County selected SEH to undertake bridge design for the replacement of a structurally deficient bridge carrying CTH D over White River.

The new structure is a 46.5 ft. long, single-span reinforced concrete flat slab bridge. The new bridge increased vertical clearance from the observed water elevation. The SEH team used heavy riprap along the embankments as an additional erosion control measure.

The SEH team's efforts for this Local Bridge Program project involved sizing the bridge to reduce construction cost; efforts to reduce impacts to natural resources at the site, including wetlands, turtles and fish; erosion control measures; project impacts within the right-of-way; and Local Program Management Consultant (LPMC) review.

FEATURES

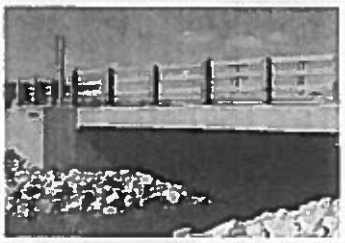
- Single-span reinforced concrete flat slab bridge
- Reinforced concrete abutments on piles
- Folded back wings
- Heavy riprap erosion control with smaller stone infill for turtle habitat
- Increased waterway width
- Asphalt approach with beam guard

SERVICES

- Preliminary and final bridge and approach design
- Survey
- Hydrology/hydraulics
- Agency coordination and permitting
- Utility coordination
- TRANS 75 coordination
- Design of erosion control elements to help maintain turtle habitat
- Specifications
- Cost estimates
- Bid package

Reference Projects

Washington Road over Ashippun River



Jim Meyer
Supervisor
Town of Ashippun
414.491.0104
jmeyer148@gmail.com

CTH J Bridge over Fish Creek

Ron Chamberlain
Highway Commissioner
La Crosse County Highway Department
608.786.3810
chamberlain.ron@co.la-crosse.wi.us

CTH OA over Garber's Coulee Creek

Ron Chamberlain
Highway Commissioner
La Crosse County Highway Department
608.786.3810
chamberlain.ron@co.la-crosse.wi.us

CTH D Bridge over Otter Creek

Phil Hewitt
Highway Commissioner
Vernon County Highway Department
608.637.5452
phil.hewitt@vernoncounty.org

CTH G over Big Roche a Cri Creek

Pat Kotlowski
Highway Commissioner
Adams County Highway Department
608.339.3355
pkotlowski@co.adams.wi.us

Understanding and Approach

SEH Project Manager Chris Blum visited the CTH Q Bridge over the Grand River. The structure has visible deterioration and needs to be replaced. The main goal of this project is to provide a new bridge that can handle current vehicle and truck loading, width and traffic volumes, while being hydraulically efficient during flood events. The road approaches will be replaced to ensure a smooth surface and to create a "leading edge" where the approach meets the bridge deck.

This rural bridge sees 300-400 vehicles per day, and is adjacent to wetlands, the Utley State Wildlife Area, marshlands and farming operations. The approach roadway is on a tangent and relatively straight, and has a relatively flat profile.

We will perform hydrology and hydraulics on the Grand River to understand flow and scour characteristics during flood events. Our hydraulic design engineer will focus on: matching existing backwater to not increase flood mapping and impacts; reducing stream velocity during flood events to prevent scour and erosion of the streambanks and bridge units; and creating increased waterway area through the bridge to increase the capacity of flood water – an important factor due to the recent flood events around the state.

SEH staff experienced in local roadway design will design the approach. We anticipate two 12 ft. lanes with 3 ft. shoulders. The approaches will be kept just long enough to obtain the needed safe roadway length for the bridge. We understand WisDOT's "Replace In Kind" direction, yet we'll take a strong design look at what approach length is needed to accommodate the new approach and beam guard. We will seek Change Management for additional funds, if necessary, to cover the cost of approach items not originally gathered in the application process.

SEH will evaluate impacts to the project right-of-way. Items that can impact right-of-way include beam guard and widening of the approach road, bridge and roadway slopes. Adhering to WisDOT standards, the SEH team will produce a preliminary design and present options if right-of-way impacts exist.

A public involvement meeting can result in greater trust and buy-in from the community. **SEH will assist in sponsoring and facilitating the public involvement meeting** to introduce the project, discuss design stages, traffic control and potential property impacts, and reveal the anticipated project outcomes.

Environmental assessment and analysis is the most important stage in project design. Agency coordination regarding natural resources, waterways, wetlands, property impacts and agricultural lands must take place with the Wisconsin Department of Natural Resources (DNR), the U.S. Army Corps of Engineers (USACE), the U.S. Fish and Wildlife Service and Native American tribes. The SEH team will be sensitive to the impacts to the Utley State Wildlife Area.

DNR wetland mapping shows mapped wetlands in all areas adjacent to the bridge, requiring wetland delineation and report preparation for submittal to the DNR. SEH has an Assured Wetland Delineator on staff to assist with this work if the DNR does not map the wetlands on a field visit. SEH will coordinate with the DNR and USACE for 401 and 404 permits.

SEH will notify Diggers Hotline prior to the survey stage so utilities can be located, marked and identified by our survey crew. We will obtain utility mapping to verify utility locations and underground depth. **Utility coordination is critical** when utilities are located close to a new bridge, especially during excavation and pile driving. Overhead electric crosses near the bridge and overhead telephone runs on the west side. Underground gas runs on the east side of the bridge.

In the design phase we will provide structure type options and cost estimates so you can make an informed decision with our guidance. The new CTH Q bridge will most likely be a single-span reinforced concrete flat slab bridge 35-45 ft. long and providing a clear width of 28 ft. We will review the option of designing deeper abutment footings to prevent undermining during flood events. Skewing the bridge at this location will also enhance hydraulic efficiency and prevent scour. Heavy riprap will be supplied to stabilize the embankments. SEH will provide a protective concrete surface treatment to extend the life of your bridge. We will include costs with all recommendations.

Schedule

- Aug. 2019 – Contract to Begin Work
- Sept. 2019 – Survey
- Kickoff Meeting
- Agency/Utility Coordination
- Feb. 2020 – Preliminary Bridge and Road Plan
- Mar. 2020 – Public Involvement Meeting
- May 2020 – Environmental Document
- Aug. 2020 – 60% Plan Review
- Design Study Report
- Final Agency Permits/Utility Coord.
- Nov. 2020 – Final Plan Submittal
- Dec. 2020 – Project Letting
- **2021** – Construction

STRAND ASSOCIATES

STRAND ASSOCIATES

CTH Q Grand River Bridge Replacement Project

Approach Delivers Solutions That Enhance the Value of the County's Infrastructure

Strand Associates, Inc.® has worked on Local Program bridge replacement projects since the inception of the program in the early 1980s. We have a thorough understanding of the current Local Program Replace-in-Kind Funding Policy requirements and how to address the scope and funding challenges it can present. Our project understanding and approach described below demonstrates our familiarity with the Local Bridge Program. Our team can provide the County with a tried and true approach to completing the CTH Q Grand River Bridge Replacement project **on time** and **on budget**.

CTH Q, in the Town of Green Lake, Wisconsin, is a north/south-oriented road with an estimated average daily traffic (ADT) of 411 (2035) that is functionally classified as a collector roadway. CTH Q extends over the Grand River. The existing bridge (P-24-0033), constructed in 1925 with no major rehabilitation since, is a single-span, reinforced-concrete flat-slab structure with a 23-foot span. The existing clear roadway width on the bridge is 26 feet and guardrail exists along the approaches leading up to the bridge. The existing bridge has a sufficiency rating of 40.3 and is load posted for a load restriction of 45 tons.

Listed below are the critical project components for the CTH Q Grand River Bridge Replacement project. **Our design team is well versed in bridge design, roadway approach design, and the Wisconsin Department of Transportation (WisDOT) coordination, reporting, and permitting requirements for projects in the Local Bridge Program.**

Approach to Major Work Elements

Major Work Element: Hydraulic Concerns Near Existing Structure

Strand Approach: Hydraulic design of the new structure will be a vital part of the CTH Q Grand River Bridge Replacement project. A review of the Green Lake County Flood Insurance Study (FIS) for the Grand River indicates that the river is classified as a Zone A floodplain in the location of the bridge, indicating that there is not a detailed study associated with it.

An important step in the process will be determining accurate flood design flows at the bridge crossing. The hydraulic capacity of the new structure will be evaluated by creating hydraulic HEC-RAS computer models that will accurately simulate the hydraulic performance of the river at the bridge. **The new structure will be sized to have sufficient hydraulic capacity to convey anticipated flood flows without increasing flood elevations upstream of the bridge.**

Existing deteriorated structure. Water has overtopped the structure recently.

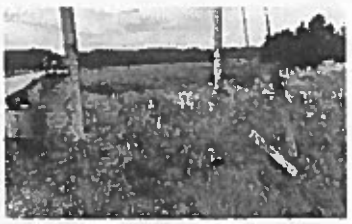
Wetland and Utley State Wildlife Area impacts will be coordinated with WDNR.

Major Work Element: Site, Agency, and Environmental Coordination

Strand Approach: The CTH Q project has been screened for historical but not archaeological impacts by WisDOT, so the Section 106 process for an archaeological survey will be required. Agency coordination with the Wisconsin Department of Natural Resources (WDNR) will address any concerns with wetland impacts resulting from grading and riprap placement. **We frequently work with Jay Schiefelbein, who is the WDNR contact for this project, on these types of projects.** The location of the bridge on the Grand River is not a designated trout stream, therefore, WDNR construction timeframe limits typically imposed on trout stream construction activities will not likely be required, giving more time for construction. In addition, this bridge is adjacent to the Utley State Wildlife Area (state-owned public land). Impacts to the wildlife area would require Section 4(f) environmental coordination, which we have significant experience in. However, all efforts will be made to avoid or, if not possible, minimize impacts to the Utley State Wildlife Area and wetlands. The use of guardrail will minimize the grading impacts in these areas.

Major Work Element: Utility Coordination

Strand Approach: Based on a field visit by our staff and Diggers Hotline information, it appears existing utilities will be impacted by the proposed improvements. There is a 2-inch We Energies buried gas line directly east of the existing structure and overhead lines with Alliant Energy electric and CenturyLink fiber optic that run over the north abutment of the existing bridge. **Early coordination with existing utilities for overhead and buried facilities during the design process will help identify conflicts that need to be addressed.**



Early coordination with Utility companies will be essential to project success and preparation of design documents.

STRAND ASSOCIATES

Approach to Major Work Elements

We are familiar with, and have implemented, WisDOT-approved design modifications to guardrail to reduce right of way and environmental impacts.

Major Work Element: Roadway Approaches

Strand Approach: Approach work will be minimized to meet Replace-in-Kind Funding Policy requirements. The existing horizontal and vertical alignment of CTH Q over the bridge is relatively straight and flat. The County indicated that the roadway has overflowed numerous times and would like to look into raising the roadway, similar to current construction on CTH S. **Because of the relatively flat vertical alignment on CTH Q, any significant raise in the roadway would likely result in approach work outside the typical Replace-in-Kind policy limits.** However, the impacts of raising the roadway could be investigated and discussed with the County. Existing and future ADT over the bridge are estimated to exceed 400. Since ADT is above 400, existing beam guard along the approaches leading up to the bridge will need to be replaced to meet WisDOT Facilities Development Manual (FDM) requirements. The cost of the beam guard will be included in the 80/20 Replace-in-Kind funding since the beam guard is needed to meet FDM requirements.

Bridge Options

A **single-span, concrete slab bridge** is the preferred structure replacement alternative, because it is least susceptible to damage by high water and is the County's favored alternative. The 42-foot bridge length approved in the State Municipal Agreement (SMA) is within economical and constructible lengths for single-span, concrete slab bridges. Our preliminary design process will include an evaluation of feasible structure alternatives. Factors included in our analysis will be cost, hydraulic capacity, construction duration, constructability, right of way (ROW) requirements, site constraints, and minimum clear dimensions. The WisDOT Bridge Manual recommends, but does not require, the use of a solid concrete parapet rail on county trunk highways because of reduced maintenance costs. However, since the longitudinal deck grade will likely be less than 0.5 percent, open tubular steel railing Type M may be used to facilitate roadway drainage on the structure. This is consistent with County desires; **the County expressed that an open tubular steel railing is preferred over a solid concrete parapet rail for snow removal in the winter.**

Bridge Clear Width

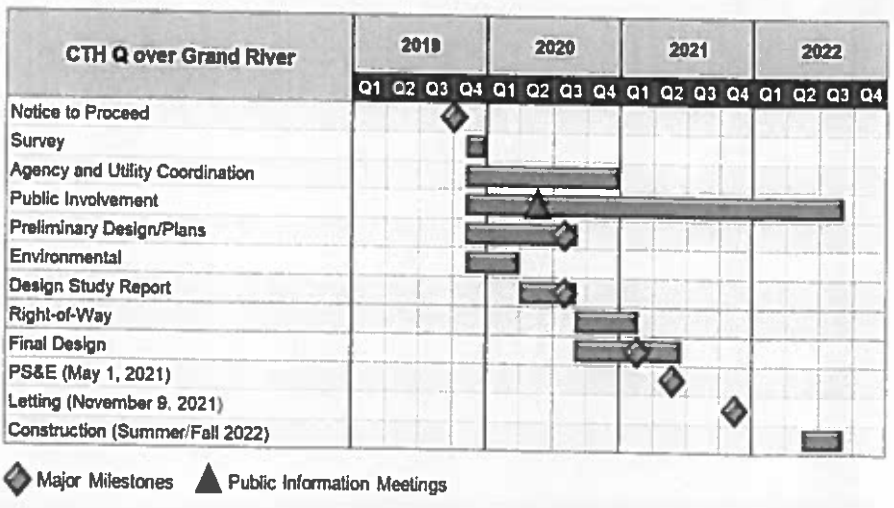
The existing bridge clear width is 26 feet. With future ADT estimated at 411, the minimum required structure width is 28 feet in order to meet Design Class C2 Modernization Design Criteria for CTH (Design ADT under 1,500). Replace-in-Kind Funding Policy allows replacing to existing width or minimum standards, whichever is larger. CTH Q at the bridge location is identified as a "best condition" bicycle route by WisDOT. Because it is a low volume road, a wider shoulder is not required to accommodate bicyclists, so the **28-foot minimum width is acceptable.** This matches the proposed scope in the SMA. Any bridge widening will affect roadway grading, slope intercepts, and ditch drainage. These details will be addressed during the design process to minimize impacts and cost.

Communications with County and Public Involvement

We fully recognize the County as part of our team. Throughout the project, the Project Manager will maintain contact with the County to obtain input on each task. County reviews will be scheduled at intervals throughout the project, typically at 30 percent (preliminary plans), 60 percent (Design Study Report), and 90 percent (Pre-Final Plan, Specifications, and Estimate [PS&E]) stages to maintain consistent coordination throughout the project. We will reach out to stakeholders who may have an interest in the construction schedule and detour details, including the Town of Green Lake, Badger Mining Corporation, and nearby farmers. Public involvement will continue throughout the project, with additional meetings scheduled, as needed. Our public involvement process will concentrate on communicating clearly, being inclusive, listening, responding quickly, and keeping the County informed along the way.

Critical Path Keeps Project on Pace to Meet WisDOT Schedule and Minimizes Local Impacts

Prior to beginning the project, Keith Behrend will prepare a detailed work plan that includes major project tasks and the manpower needed to complete them; other resource requirements and associated durations; any interdependence with other project work; and Agency, County, and WisDOT review times. We have found this initial effort in putting together a schedule for the parties involved helps maintain the project schedule. The adjacent graphic presents the schedule for completion of the design work, including each major task, with assumed PS&E and letting dates to be verified with the SMA.



STRAND ASSOCIATES

Extensive History with Bridge Design Signifies Our Organizational Strength and Commitment to Quality

We are listed on the WisDOT's Roster of Eligible Engineering Consultants with a history of providing bridge design services for more than 30 years. We are licensed in the State of Wisconsin (WI Reg. No. 31264) and are registered to do business in Wisconsin with the Office of the Secretary of State. The following factors demonstrate our firm's ability to deliver successful bridge replacement projects.

- Experience with bridge design – more than 500 bridges designed
- Focus on reducing costs, in both design and construction
- Knowledge of the PS&E process and WisDOT requirements and standards
- Extensive public involvement experience
- Continuous open communication with our clients

Successful Completion of Past Bridge Replacement Projects Confirms Our Ability to Meet the WisDOT Process and Local Bridge Program Requirements

The following bridges were recently designed by our proposed project team and are similar to the CTH Q Grand River Bridge Replacement project. The provided references will attest to the value they have realized with our services.

Bridge Project Name	Local Program Project	Survey	Hydrology and Hydraulics	Bridge Design	Roadway Design	Right of Way	Agency Coordination	Public Involv. Meeting	Environmental Permit/Docs.
CTH PB Bridge over Sugar River – Dane County, WI	●	●	●	●	●	●	●	●	●
CTH B Bridge over Koshkonong Creek – Dane County, WI	●	●	●	●	●	●	●	●	●
CTH N Bridge over Yahara River – Dane County, WI	●	●	●	●	●	●	●	●	●
Risseeuw Road Bridge over Onion River – Sheboygan County, WI	●	●	●	●	●	●	●	●	●
Pit Road Bridge over Big Sandy Creek – Marathon County, WI	●	●	●	●	●	●	●	●	●
Brookside Drive Bridge over Little Suamico River – Brown County, WI	●	●	●	●	●	●	●	●	●
CTH D Bridge over Kohlsville River – Washington County, WI	●	●	●	●	●		●	●	●
CTH C Bridge over Millville Creek – Grant County, WI	●	●	●	●	●		●	●	●

Local Program Bridge Project References				
Dane County, WI Pam Dunphy, Assistant Highway Commissioner (608) 266-4036	**Sheboygan County, WI** Greg Schnell, Transportation Director (920) 459-3822	**Grant County, WI** David Lambert, Highway Commissioner (608) 723-2595	**Brown County, WI** William Berg, Senior Civil Engineer (920) 662-2171	**Washington County, WI** Scott Schmidt, Highway Commissioner (262) 335-4436

Experienced Project Team Leads to Successful Bridge Replacement Project for Green Lake County

Our team will be responsive to the County's needs, provide smooth and effective communication, and capitalize on the experience required to execute a successful Local Program bridge design. Our team ***routinely*** completes Local Program bridge projects throughout all regions of Wisconsin and are familiar with all of the new approval requirements.

Team Member and Project Role	Relevant Experience	Local Bridge Program Projects*				
		A	B	C	D	E
Keith Behrend, P.E., S.E. Project Manager	• 15 Years of Experience / 10 Years with Strand • Currently managing two Local Program Bridge projects in the WisDOT Northcentral Region and one in the Southeast Region	PM	PM	PM	PM	PM
David Walker, P.E., S.E. Quality Control Engineer	• 39 Years of Experience / 29 Years with Strand • QC for this team on previous Local Bridge Program projects	QC	QC	QC	QC	QC
Evan Constant Structure Engineer	• 4 Years of Experience / 4 Years with Strand • Has provided design for 25 bridges		SE		SE	SE
Jennifer Kobryn, P.E. Roadway Engineer	• 11 Years of Experience / 11 Years with Strand • Experienced in roadway design, agency coordination, environmental documentation, public involvement, and WisDOT PS&E preparation for Local Program projects				RE	RE

***Recent Local Bridge Program Projects**

A. Risseeuw Road Bridge Replacement (Sheboygan County, WI)
B. Silver Creek Cascade Road Bridge Replacement (Sheboygan County, WI)
C. CTH D Bridge Replacement (Washington County, WI)
D. CTH PB Over Sugar River (Dane County, WI)
E. Wacker Drive Bridge Replacement (City of Hartford, WI)

WESTBROOK ASSOCIATED ENGINEERS

WESTBROOK
Associated Engineers, Inc.

619 East Hoxie St. | P.O. Box 429 | Spring Green, WI 53588
P: (608) 588-7866 | F: (608) 588-7954 | www.westbrookeng.com

June 10, 2019

Green Lake County Highway Commission
Attn: Barry Mashuda, Commissioner
570 South St.
Green Lake, WI 54941-0159

Re: Statement of Qualifications – Bridge Design Services for CTH Q Bridge Replacement

Dear Mr. Mashuda:

Westbrook Associated Engineers, Inc. is pleased to submit this Statement of Qualifications for the design of Green Lake County's federal aid bridge replacement project on CTH Q over the Grand River. Our team is excited about this opportunity to serve the County on this upcoming project. ***Westbrook is highly qualified for this project and is the only designer that offers the following advantages to the County:***

Organization Capabilities
Westbrook was started in 1974 as a heavy highway structural engineering firm and has been designing bridges for municipalities, counties and the State since that time. This long lasting experience and relationships in the industry has put Westbrook on the map as a leader in bridge design. Westbrook has won the Federal Highway Administration Award for Excellence in Bridge Design. ***No other firm, large or small, in the State of Wisconsin has won this award!***

Staff Qualifications / Experience
Our bridge design team provides the County extensive local bridge design experience and has ***an average professional career of 25 years.*** Westbrook has designed hundreds of bridge replacements in every WisDOT region throughout the State and in nearly every County. Our team of engineers thoroughly knows the WisDOT Facilities Development Manual and LRFD Bridge Manual in their entirety and can seamlessly implement the process ***while delivering a cost effective bridge.***

Efficiency / Cost Effectiveness
There are many consulting engineering firms out there that can design bridges. ***However, not all of them are cost effective, but Westbrook is.*** Westbrook has a low overhead rate which means we provide cost effective designs with the utmost of quality and do it for less than other firms. When submitting sealed bids for design projects, Westbrook is consistently the low bidder. These efficiencies are passed directly on to you as real dollar savings. Part of your quality based decision ultimately will affect your pocket book. Choose Westbrook and you will pay less for a quality delivered project. ***Westbrook provides you more for less!***

Availability
Westbrook's bridge design group has recently completed project designs in Grant, Kenosha, Richland, Rock, Sauk and Vernon Counties. We also are just coming off of the multi-year IH 39 Central Segment – Structures Design. Our current availability allows Westbrook to put ***the citizens of Green Lake County as our top priority*** and we can ***easily support and deliver your bridge design.***

And Finally . . . Why Westbrook?
Simply put, ***Westbrook provides a higher level of service to our clients.*** By listening to your needs and focusing on quality, we provide a design solution that is functional, practical and economical. Our in-house quality control process ensures that our plans are free from hidden pitfalls that can cause unnecessary cost overruns in construction. ***We stake our reputation on preparing high-quality plans and providing first-class responsive service to our most important client – YOU!***

Sincerely,
Westbrook Associated Engineers, Inc.

Aaron B. Palmer, P.E.
Vice President / Transportation Project Manager

ABOUT WESTBROOK

Westbrook Associated Engineers, Inc. is a locally owned consulting engineering firm that was established in 1974. Our home office is located in Spring Green, Wisconsin. We excel in transportation engineering and highway, municipal and structural design and have designed hundreds of local bridges over the years. Westbrook's staff of 27 professionals will ensure that your project receives the attention that is needed to move it from conception to completion in a hassle-free manner. The staff for your project is highly experienced. Westbrook has won the Federal Highway Administration Award for Excellence in Bridge Design. ***No other firm, large or small, in the State of Wisconsin has won this award.*** Westbrook has also won awards for roadway design and construction administration on various projects. Our project team will ensure you are completely satisfied with the entire design process and ultimately your new bridges and that they are built within budget.

ORGANIZATION CAPABILITIES

Westbrook has been in business for over 40 years. We were started as a structural engineering company in the basement of Edward Kraemer & Sons (EKS). Westbrook is no longer affiliated with EKS but the knowledge and experience gained with them throughout the years has not been lost. Simply put Westbrook is known as a structural engineering company because that's what we do. ***We design bridges!***

Westbrook is consistently sought out by WisDOT and contractor's alike because of our structural expertise. In 2011, Westbrook was chosen by the Department to provide structural engineering services for the conversion of IH 39 from 4 to 6 lanes of traffic from Janesville to the Dane County line. This major project consisted of the design and rehabilitation of over 70 structures. The Department selected Westbrook for this project because of our structural bridge expertise and reputation for delivery.

Westbrook designs structures that are constructible. This helps to ***reduce costs*** because we lay out a structure in the manner that makes the construction of it easier. Westbrook also maintains relationships with many of the major bridge contractors throughout the state so if we have questions that only a contractor can answer we simply pick up the phone and ask.

Westbrook has been designing bridges in the federal STP-Local Bridge program since its inception. This expertise of project delivery has been passed on to all of our engineers and continues today. Jeff Koch, CEO/Chief Structural Engineer of Westbrook started his career at Westbrook in the 1980's. He continues today as a manager, mentor and designer of bridges throughout the State and will ensure you experience why our reputation as bridge designers has held strong since our inception.

PROJECT APPROACH

Westbrook thoroughly understands the entire project delivery process as it relates to designing and delivering a bridge replacement project following the federal aid process. We know how to design bridges but just as important we know how to manage the process. You will be pleased with the seamless delivery of the process when you hire Westbrook as your bridge designer.

Your new structure will be designed to the standards that exist now under the current program. We will ensure you get the bridge you want and within the budget that has been established. We have worked with other counties that have had very limited budgets allocated through the program and have successfully found cost savings during the design process that we implemented into the plans to save money and stay within budget.

The existing bridge is built on a tangent section of CTH Q. The STP – Bridge program considers their projects to be spot improvements so I do not anticipate any corrections to the vertical or horizontal roadway alignment. Therefore, I anticipate limited approach work.

The existing structure, P-24-0033, is a 23 foot long reinforced concrete slab bridge with an AC overlay. It has a sufficiency rating of 40.3 and is considered structurally deficient. CTH Q is classified by WisDOT as a Minor Collector and has a recorded ADT of 374 based on a 2015 count. However, this roadway has a high volume of truck traffic due to the close proximity of the Badger Mining Corporation.

UNIQUE FEATURES

- Wetlands are present in all quadrants of the bridge and will be impacted during construction of the new structure.
- Utilities at the structure consist of an underground gas line running on the east side of CTH Q. This may be impacted by the new structure. In addition there is an overhead electric line that diagonally runs over the bridge. This line will have to be relocated prior to construction. Westbrook will coordinate with the utility company to resolve all conflicts prior to construction.
- R/W acquisition is anticipated due to the grading requirements of the guardrail end terminals.
- WisDNR owns the land east of the structure. Westbrook has recent experience working with the DNR on a similar situation. We anticipate seeking a Temporary Limited Easement (TLE) from the DNR to construct the new slopes.

- Westbrook advises seeking a Highway Easement (HE) from the other property owners in order to construct the slopes. This means the property owners maintain ownership of the land but the County will have the right to maintain the corridor for highway / bridge purposes.

PROPOSED IMPROVEMENTS BASED ON CURRENT ADT AND FUNCTIONAL CLASSIFICATIONS

Bridge

- Single span, reinforced concrete flat slab bridge with approximate span length of 42'.
- Clear roadway width, face of rail to face of rail on structure to be 28'.

Approach Roadway

- C1 Design Class (Source: FDM 11-15 Attachment 1.16)
- Approach Roadway Width will consist of 11' lanes with a 3' paved shoulder to match the proposed structure width.

PROPOSED TIMELINE

Notice to Proceed	July 2019
Survey	July 2019
Soil Borings	August 2019
Initial Agency Coordination	August 2019
H&H Study	August 2019
30% Preliminary Plan Submittal	September 2019
Environmental Document	September 2019
60% Plan & Estimate	December 2019
Public Informational Meeting	December 2019
Final Agency Coordination	February 2020
Final Structure Plans	February 2020
Final Plan	April 2020
Bid Letting	August 2020
Construction	Fall 2020

SIMILAR RECENT PROJECT EXPERIENCE

- CTH H, Mill Creek Bridge, P-25-0041, Iowa County – Three span haunched slab bridge.
- 13th Avenue, Pike River Bridge, B-30-0013, Kenosha County – Two span haunched slab bridge.
- Covered Bridge Rd, Horse Creek Bridge, P-52-0189, Richland County – Single span flat slab bridge.
- CTH WW, Seymour Creek Bridge, B-62-0995, Vernon County – Single span flat slab bridge.
- CTH H, Bass Creek Bridge, B-53-0099, Rock County – Two span haunched slab bridge.
- CTH Z, Billings Creek Bridge, B-62-0243, Vernon County – Single span flat slab bridge.
- CTH B, Bear Creek Bridge, B-52-0277, Richland County – Two span flat slab bridge.
- CTH Y, Cambell Ditch Bridge, B-42-0100, Oconto County – Single span flat slab bridge.
- River Lane Road, Regan Branch Bridge, B-22-0281, Grant County – Single span flat slab bridge.

CLIENT REFERENCES

Phil Hewitt, Vernon Co. Highway Commissioner (608) 637-5452

Duane Jorgenson, PE, Rock Co. Highway Commissioner (608) 757-5450

Patrick Scanlan, Oconto Co. Highway Commissioner (920) 834-6887

Dave Lambert, PE, Grant Co. Highway Commissioner (608) 637-5452

Derek Potter, PE, WisDOT, Project Manager-IH 39, Central Segment (608) 884-7135

Bill Condon, Richland Co. Highway Commissioner (608) 647-4707

Patrick Gavinski, PE, Sauk Co. Highway Commissioner (608) 355-4380

Craig Hardy, PE, Iowa Co. Highway Commissioner (608) 935-3381

Clement Abongwa, PE, Kenosha Co. Highway Commissioner (262) 653-1870

GREEN LAKE COUNTY
HIGHWAY COMMISSION

Barry Mashuda
Highway Commissioner

Office: 920-294-4060
Fax: 920-294-4066
Email: bmashuda@co.green-lake.wi.us

May 21, 2019

Subject: On-Call Engineering Services

Green Lake County Highway Commission is soliciting for on-call engineering, as we do not have an engineer on staff, and there are occurrences when engineering services may be needed throughout the year, such as bridge inspections, emergency road construction/bridge repair, etc.

Please provide a statement of qualifications (as indicated below) for engineering services relating to transportation system mitigation planning, highway design, and construction if you are interested in providing consulting services to Green Lake County Highway Department.

- Company Introduction
- Summary of previous and existing highway construction projects within Green Lake County, State of Wisconsin, and/or adjoining counties/states.
- Staff qualifications
- Fee schedule for 2019 and 2020 (including bridge inspections)
- Company agreement for professional services
- Insurance Coverage

Please submit no later than 6/14/19 to Green Lake County Highway Department, via email to bmashuda@co.green-lake.wi.us.

Sincerely,
Barry Mashuda

Barry Mashuda
Highway Commissioner
Green Lake County Highway

STATEMENT OF QUALIFICATIONS

On-Call Engineering Services

Green Lake County Highway Commission

Due Date: June 14, 2019

HireSmart®

AYRES ASSOCIATES

June 13, 2019

Barry Mashuda, Highway Commissioner
Green Lake County Highway Commission
Email: bmashuda@co.green-lake.wi.us

Re: Statement of Qualification for On-Call Engineering Services

Dear Mr. Mashuda:

Green Lake County is a valued client of Ayres Associates as you have trusted us with completing dozens of your highway design, survey, bridge design, and construction observation projects. As you review this Statement of Qualifications, you will see staff and projects that show our diverse abilities.

We also provide the following to Green Lake County:

- **A commitment to our clients.** We don't chase projects. Instead, we work to develop long-term relationships. We place a high priority on understanding your needs, openly addressing issues, involving you in decision-making, and resolving project concerns.
- **A strong relationship with your staff.** Ayres has worked closely with Becky Pence over the years on many projects, including helping Green Lake County secure federal funding to repair flood-related damage.
- **Experienced, dedicated project managers.** Clients say they continually rehire our firm because our project managers are excellent problem-solvers who listen – and respond – to our clients' needs.
- **Respect for your budget and schedule.** We hold our project managers responsible for providing you with quality services on time and budget. Our experience means we know how to get a project done right the first time.

Thank you for the opportunity to renew our services and submit this Statement of Qualifications. We look forward to working with you on all of Green Lake County's transportation needs.

If you have any questions or need more information, please contact any of us at 920.498.1200 or at the email addresses listed below.

Sincerely,

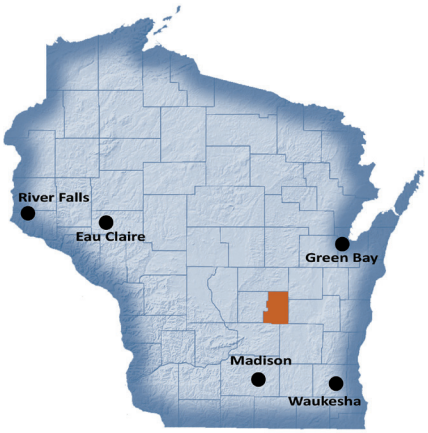
Ayres Associates Inc

Ryan D. Schaitel, PE
Project Manager
SchaitelR@AyresAssociates.com

Troy B. Robillard, PE
Manager – Transportation Services-East
RobillardT@AyresAssociates.com

Richard B. Satterlee
Business Development Specialist
SatterleeR@AyresAssociates.com

Company Introduction



Led by the Green Bay area office, Ayres Associates is ready to serve Green Lake County with transportation and support staff in several nearby offices.

For 60 years, Ayres Associates has been working to make a positive difference in the lives of Wisconsin residents. Ayres Associates provides engineering and architectural consulting services from a network of 11 offices in four states.

We are **ranked among the top 500** architectural/engineering firms in the nation by Engineering News-Record magazine. We first were ranked on the ENR list in 1972, and our revenues have kept us among this caliber of firms ever since. **This means you can always count on Ayres Associates being there for you.**

Firm Information

Ayres Associates Green Bay – Local Office
3376 Packerland Drive
Ashwaubenon, WI 54115
Phone: 920.498.1200
www.AyresAssociates.com

Ayres Associates – Corporate Headquarters
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
Phone: 715.834.3161
Fax: 715.831.7500

Primary Contact

Ryan Schaitel, PE, Project Manager
3376 Packerland Drive
Ashwaubenon, WI 54115
Direct: 920.327.7840
SchaitelR@AyresAssociates.com

Firm History

Ayres Associates is a multispecialty architectural/engineering firm that has assisted public and private clients since 1959. Our superb project managers build long-term relationships with clients while reliably solving their problems, stretching their dollars, and masterfully navigating regulations.

Our firm was founded by Owen Ayres, an engineer who instituted many of the practices we follow: working with clients as a partner; offering smart, creative solutions; conducting business with the utmost integrity; and providing employees challenges and the opportunity to advance and invest in their company.

Project/Design Methodology

Ayres Associates uses a project manager approach to provide engineering services. A registered professional engineer is assigned to serve as your primary contact, attend meetings, develop project budgets, schedule work, monitor progress and budgets, and see that your projects are completed to your satisfaction. The project manager coordinates work tasks with team members and is responsible for implementing Ayres Associates' quality assurance program on each project.

Our team of professionals brings expertise in the following transportation-related areas:

- Urban-rural roadway design
- Intersection improvements
- Drainage improvements and permitting
- Flood recovery and response
- Traffic design and analysis
- Structural design/inspection
- Route/alternative planning and design
- Bicycle and pedestrian facilities
- Lighting and signalization
- Construction services
- GIS and asset management

Quality Assurance/Quality Control

Ayres Associates' quality assurance/quality control (QA/QC) program is specifically tailored to each client and project objective. Ayres Associates' quality program promotes continuous improvement based on feedback from our clients, from our own project operations, and from opportunities created by changing technologies.

Our written QA/QC procedures are applied to all projects, regardless of size. Fundamental features include adoption of standard operating practices, staff training, and audits. Adherence to the QA/QC program is an integral function of all managers and supervisors. Our program involves several levels of technical review of designs, calculations, drawings, details, specifications, and reports via qualified staff; checks and reviews by similarly qualified staff; proper supervision; and conscientious documentation and record-keeping. The project manager assumes responsibility for all staff members, and each discipline group has a team leader. The project manager and team leaders assemble project teams for each task order. Both the project manager and the principal-in-charge provide technical review.

Staffing

Ayres Associates employs a staff of more than 315 professionals, with the following breakdown by discipline for our Green Bay office and firm:

Discipline	GB Office	Firm
Transportation Engineers	7	27
Structural Engineers	0	11
Technician/Analyst	16	83
Construction Inspectors*	5	10
Civil Engineers	2	23
CADD Technicians	3	14
Land Surveyors	6	14
Water Resources Engineer	0	12
Traffic Engineers	0	5
Landscape Architects	0	5

* Several of our transportation engineers work primarily as construction inspectors.

Public Sector Experience

Ayres Associates knows the public sector well, especially Wisconsin. About 75 percent of our business comes from the public sector, and about two-thirds of our revenue is generated in Wisconsin.

Disciplines Offered

The following pages give a summary of a few of the pertinent disciplines we offer in-house.

TRANSPORTATION

You already know that transportation systems need continual improvement, monitoring, and maintenance. Increased traffic, new businesses, and growing developments are stretching your roadway capacities while tight budgets require creative financing.

Hand off that stress to Ayres Associates. We'll listen first – to your goals, your concerns, and your ideas – and then we'll handle everything. From the early stages of permitting and consensus-building, to the final stages of design and construction, our highly experienced project managers and staff have the expertise and regulatory knowledge to keep your project running smoothly. On time. On budget.

> **"They do stormwater. They do roads. They do bridges. I mean, they're able to tackle all phases of a project and to coordinate those with the different outside government agencies such as the DNR and the Army Corps of Engineers. There's a lot of things that have to be correlated to get a project completed and done on time."**
>
> – John Rogers,
> former Forest County Highway Commissioner

EXPERTISE

- Freeway planning & design
- Interchange design
- Urban roadway planning & design
- Rural roadway planning & design
- Bridge & retaining wall design
- Environmental assessments
- Environmental impact statements
- Right-of-way plats
- Property descriptions
- Public involvement
- Construction staging concepts
- Construction observation
- Signing & pavement marking
- Agency & utility coordination
- Lighting design
- Intersection design
- Roundabout design
- Sidewalk design
- Shared-use path design
- Safety improvements

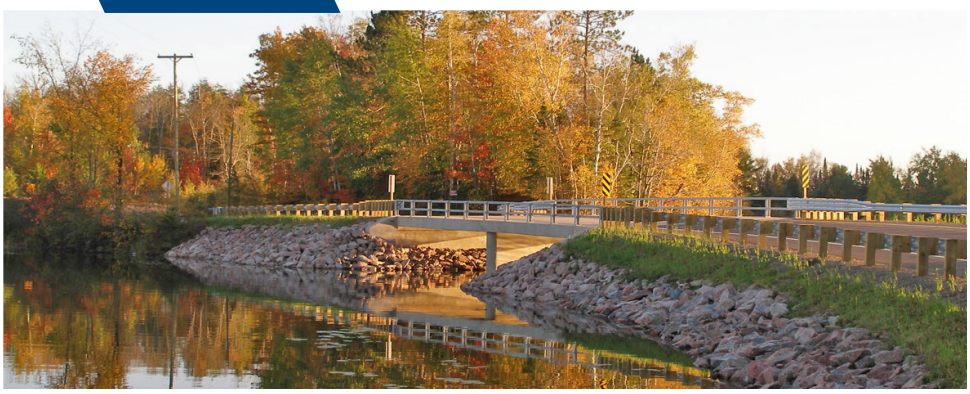
AWARDS

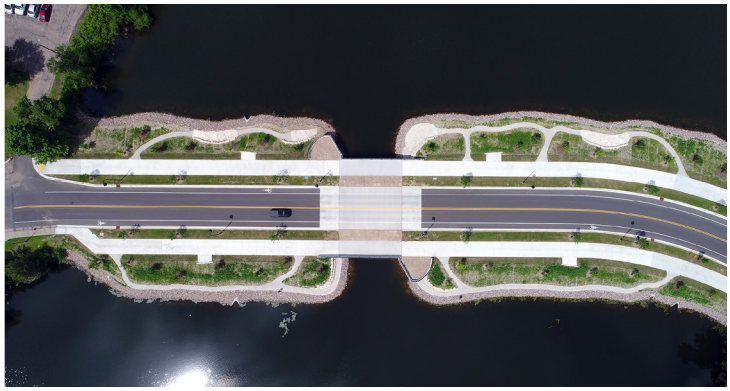
IH 90/USH 53/STH 35 Interchange and IH 90 Reconditioning
Engineering Excellence State Finalist Award
American Council of Engineering Companies of Wisconsin

Ozaukee County STH 33 (IH 43 to Tower Drive)
Engineering Excellence State Finalist Award
American Council of Engineering Companies of Wisconsin

USH 51/STH 29 Corridor Improvements
Engineering Excellence Best of State Award
American Council of Engineering Companies of Wisconsin

STRUCTURAL DESIGN





You want your community's bridges to stand the test of time and nature. Ayres Associates designs them so they do – cost-effectively and with an eye toward aesthetic appeal and ease of future maintenance. Contractors have commented that they bid plans from Ayres "tighter" because they are error-free, easy to read, and use desirable construction details – which means you can trust us to stick to your budget and your schedule whether your project is a simple box culvert or a massive interstate interchange.

Our nationally recognized hydrologic and hydraulic analysis staff provide additional insight and peace of mind on bridges we design that cross water. These specialized staff members also bring extensive experience to your dams: they have completed reconstruction on more than 40 publicly owned dams and more than 20 hydroelectric dams.

> **"Ayres Associates played a key role in determining what type of bridge is really going to work and where the bridges would go. They provided the expertise to make a good recommendation."**
>
> – Tim Paulus,
> St. Paul District of US Army Corps of Engineers

EXPERTISE

- Highway bridges and culverts
- Pedestrian/bicycle bridges
- Retaining walls
- Dams and hydraulic structures

AWARDS

Eau Claire Grand Avenue Half Moon Lake Bridge
Engineering Excellence Awards – Best of State Award
American Council of Engineering Companies of Wisconsin

Excellence in Highway Design Best Local Program Award
Wisconsin Department of Transportation, Northwest Region

State and National Public Works Project of the Year (small cities/ rural communities transportation category)
American Public Works Association

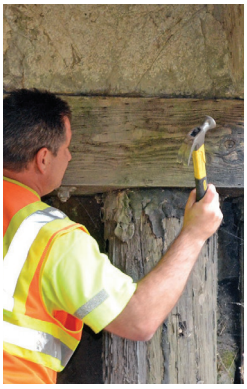
City of Amery Bridge Street over Apple River
Excellence in Highway Design Structure Design Nominee
Wisconsin Department of Transportation

City of Chippewa Falls Spring Street Bridge Rehabilitation
Engineering Excellence Awards – State Finalist Award
American Council of Engineering Companies of Wisconsin

STRUCTURAL INSPECTION








Communities count on safe bridges, dams, and other civil structures – and you can count on Ayres Associates to detect problems, provide solutions, and trust us when we give the all-clear. Our highly trained team has inspected thousands of structures from coast to coast. This means that no matter what kind of inspection your structure needs, we've seen thousands just like it and will get the job done efficiently and in a cost-effective manner.

Our team includes commercially certified divers, trained climbers, welding experts, certified bridge inspectors, and professional engineers. They meet the National Bridge Inspection Standards and have taken all required courses from the Federal Highway Administration (FHWA) National Highway Institute. They have also assisted the FHWA National Highway Institute develop and teach training and safety courses.

We comply with all OSHA standards, including personal protective equipment and visibility while working in or near traffic and confined space entry. Our diving operation follows OSHA standards for commercial diving and our climbing operations use personal fall arrest systems meeting OSHA and the Society of Professional Rope Access Technicians standards.

EXPERTISE

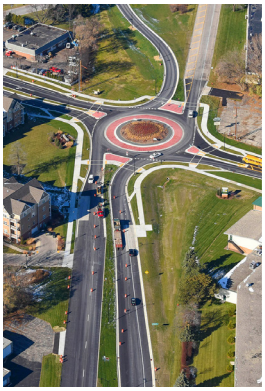
- Routine inspection
- Underwater inspection
- Fracture Critical Member inspection
- Scour inspection
- Specialty access
- Steel fabrication quality assurance inspection
- Emergency response inspection
- Non-destructive testing evaluation
- Utility pole inspection

STRUCTURES

- Bridges
- Culverts
- Overhead signs
- High mast light poles
- Dams and water control structures
- Waterfront structures
- Parking facilities
- Utility poles

> **"Ayres' services for this task were invaluable. They provided a solution that was simple and cost-effective and worked with people in the field to implement the solutions. They were very flexible in working with a changing schedule."**
>
> – Phillip Sauser,
> US Army Corps of Engineers

TRAFFIC ENGINEERING



Counties and their communities continually need to improve existing transportation systems for safety and to meet the needs of new residential and commercial developments. Plan ahead with traffic engineering services that make these developments and streets safe and effective. Whether you need traffic studies to let you know how to improve street safety and flow, a traffic signal design that keeps traffic moving smoothly, or traffic-calming tools to reduce noise and speeding, Ayres Associates' traffic engineers have the experience and ability to think outside the box to make your roadways and streets safer and more efficient, adding value to your County.

Vehicle traffic isn't the only consideration for your roadway network. We also provide context-sensitive solutions known as "complete streets" that enhance safe travel for all users – pedestrians, bicyclists, transit, people with disabilities, as well as vehicles. We also can provide parking studies and design, roundabout analysis and design, and traffic-taming options in the vicinity of your schools, parks, and business districts. We can help you promote alternative modes of transportation, like transportation demand management studies, bike path design and studies, as well as pedestrian studies.

EXPERTISE

- Traffic counts
- Development traffic studies
- Neighborhood traffic taming
- Traffic demand management studies
- Bicycle and pedestrian studies
- Parking studies
- Traffic safety analyses and audits
- School traffic and pedestrian safety studies
- Complete streets
- Streetscape enhancements
- Traffic modeling, including micro-simulations and 3D modeling
- Traffic signal operations and design
- Roundabout planning, analysis, and design

AWARDS

Madison Congestion Management Plan
Engineering Excellence State Finalist Award
American Council of Engineering Companies of Wisconsin

CONSTRUCTION OBSERVATION

Construction can be chaotic. With so many moving pieces in the process – construction crews, property owners, administrative red tape – all it takes is one of those pieces not working properly to create major problems on the site and major headaches for you. Ayres Associates can help you tame the chaos and lose the hassle. Our construction observation experts have a wealth of knowledge that we share and tap into internally – we've seen it all and are adept at recognizing problems before they arise so that we can have creative, workable solutions ready.

We understand that for your project to run smoothly, communication is critical: communication with you, with the public, with contractors, and with utility companies and other agencies.

Whether your project involves observation on a multi-million dollar highway project, a local street reconstruction, or a dam repair, rest assured that your schedule and budget are our top priority. We resolve issues quickly and decisively based on years of field smarts so that your project can continue forward seamlessly.

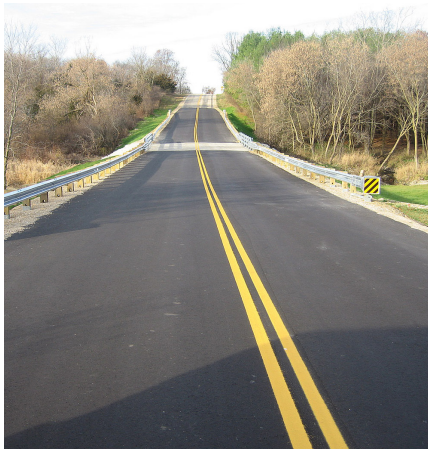
EXPERTISE

- Utility installation construction observation
- Transportation construction observation
- Municipal construction observation
- Hydraulic structure construction observation
- Construction staking
- Construction inspection
- Materials testing
- Traffic control
- Buildings

> **"[The Ayres Associates team] has always done a great job of keeping me involved. They definitely do a good job at representing both the City and WisDOT's interests."**
>
> – Chris Petykowski, Principal Engineer, City of Madison

Hire Smart®

Project Experience



Green Lake CTH "BB"
(Ayres Design)

Ayres Associates is well-known throughout your region as a provider of choice for transportation, survey, aerial mapping, inspection, environmental, and many other services.

The quality of our services is demonstrated by the extent of repeat business we enjoy from our clients; we believe this is a true reflection of our clients' satisfaction toward our overall performance. Approximately 90% of our 2018 revenues were from clients we had served within the previous five years.

Our experience has shown us that close and open communication with our clients is the foundation for a successful working relationship. We place a high priority on understanding our clients' needs, openly addressing issues, involving clients in decision-making, and resolving project concerns. In every project we undertake, our goal is always client satisfaction.

We invite you to contact the nearby references listed below for a firsthand account of our work. **A sampling of our Green Lake County and other recent related experience follows in this section.**

Sheboygan County Transportation Department

Greg Schnell, Transportation Director
920.459.3822
greg.schnell@sheboygancounty.com

Calumet County Highway Department

Brian Glaeser, Highway Commissioner
920.849.1434
Glaeser.Brian@co.calumet.wi.us

Outagamie County Highway Department

Andy Rowell, PE, Highway Engineer
920.968.5756
andy.rowell@outagamie.org

Kewaunee County Highway Department

Todd Every, Highway Commissioner
920.388.3707
everyt@kewauneeco.org

Green Lake CTH "K"

Green Lake County Experience

Green Lake County Highway Department General Engineering

From 2006 to 2012, Green Lake County Highway Department retained Ayres Associates to be its engineer on record to provide professional services when requested. Ayres provided professional service assistance on an as-needed basis.

Most recently, Ayres worked on the following projects for the County:

- **CTH "B"/CTH "H" Intersection Design:** This project involved the redesign of the intersection of CTH "B" and CTH "H." Ayres provided multiple options and associated costs to the County to upgrade the intersection, which had two intersection points. The County wanted to create a standard T intersection. The design and right-of-way acquisition was completed in 2011, and this intersection was reconstructed in early 2012.
- **Badger Mining Corporation CTH "JJ" Crossing:** This work continued for a couple of years, and the new crossing was completed in 2011.
- **CTH "S" Logging Roadway (CTH "A" to A.F. Gelhar Co. Entrance):** We completed the initial logging of the roadway to document the condition of the roadway before A.F. Gelhar's hauling operation. The County placed an asphaltic overlay, and the roadway was logged again to document its condition.
- **CTH "I" Bridge:** Ayres Associates completed an emergency structural inspection of the CTH "I" bridge over the Grand River to provide a sufficiency rating, review the planned retrofit to restore the bridge rating, and provide a temporary posting for the bridge until the retrofit work was complete.

Town of Manchester Proscarion Road

Waushara CTH "F"

- **Town of Manchester Proscarion Road Culvert Replacement:** The Town hired Ayres Associates to replace the culvert that washed out along Proscarion Road during the flooding event of June 2008. The work included completing a hydraulic analysis of the existing structure and providing three options for a new structure.

Other projects completed by Ayres Associates for Green Lake County include:

- CTH "H" Design
- CTH "BB" over Tributary to Puckaway Lake
- CTH "BB" Construction Observation
- CTH "T" Intersection Analysis
- CTH "PP" Design
- CTH "K" Bridge Replacement
- CTH "B" Bridge Replacement
- CTH "A" Puchyan River Crossing
- WROC 2020 Lidar (2018)
- Underwater Bridge Inspections (2009)
- Digital Orthophotography (2001)

Recent Related Experience

Waushara CTH "F" (STH 73 to CTH "Z") Pavement Resurfacing

Client: Waushara County Highway Department

The Waushara County Highway Department, along with the Wisconsin Department of Transportation (WisDOT), hired Ayres Associates to design 4.7 miles of pavement resurfacing along CTH "F" between STH 73 and CTH "Z." The project was constructed with Surface Transportation Program (STP) funds. Services included preparing design study and pavement reports; developing a transportation management plan (TMP); providing documentation for bike and pedestrian accommodations; environmental documentation; agency and utility coordination; public involvement; roadway design; developing road plans; and plans, specifications, and estimate (PS&E).

Traffic Safety Study STH 21 and STH 73, Waushara County

Client: WisDOT, North Central Region

This project involved a spot safety data evaluation and analysis study at the intersection of STH 21 and STH 73, Waushara County, where approximately 25 crashes occurred from 2004 through 2008. Services included collecting and reviewing information about the site, analyzing this information, and providing crash reduction recommendations.

Columbia CTH "V" (STH 113 to Rapp Road) Reconstruction

Client: Columbia County Highway Department

Columbia County retained Ayres Associates to complete the design and PS&E for the reconstruction of approximately 0.6 mile of CTH "V" from STH 113 to Rapp Road. The project is in the unincorporated area known as Okee, in the Town of Lodi.

The project includes the realignment of CTH "V" near the intersections of Old Sauk and Shamrock

Roads, the crossing of the Wisconsin & Southern Railroad, a new curb and gutter section for a portion of the project, additional street parking, sidewalk, storm sewer, and a deck replacement of a structure. Services include submission of a TMP, development of plans for deck replacement, holding two public informational meetings, agency and utility coordination, preparation of road and structure plans, and PS&Es.

Dodge CTH "O"

Dodge CTH "O" over Ashippun River

Client: Dodge County Highway Department

Dodge County retained Ayres Associates to design a cost-effective replacement for the CTH "O" bridge over the Ashippun River. Approach roadway segments totaling approximately 300 feet were designed, and a single-span concrete flat slab bridge was selected for the new structure. Services include environmental documentation, survey, public involvement, and roadway and structure plans. The bridge was on an accelerated schedule to allow it to be completed before the U.S. Open Golf Tournament at nearby Erin Hills Golf Course in 2017. It was constructed in 2016.

Additional Emergency/Inspection Projects

Government Road over Bad River Bridge Inspection, Ashland County

Client: U.S. Department of the Interior, Bureau of Indian Affairs

The Bureau of Indian Affairs (BIA) requested that Ayres Associates provide emergency inspection and evaluation of flood damage that occurred to a bridge on Government Road over Bad River. Ayres also determined the repairs needed to reopen the bridge to traffic.

Services include reviewing existing plans, visiting the site the day after the BIA contacted Ayres to inspect the flood damage, identifying possible repairs, and submitting a report indicating findings along with sketches and specifications for possible repairs.

> "When I talked to (Ayres project manager) Chris (McMahon), I said, 'We really need something in less than a week ... to get this bridge open.' Chris and his guys produced a very comprehensive yet easy-to-read, practical solution that allowed the tribe to quickly respond to the embankment failure. We got it fixed within about a week and were able to open up the road. Until then, we had 10 families that had about a 45-mile detour to get to the tribe because they couldn't use the bridge and there was no other crossing."
>
> – Dave O'Donahue, Supervisory Civil Engineer, U.S. Department of the Interior, Bureau of Indian Affairs

Iron CTH “A”

Iron CTH “A” over Oronto Creek Bridge Replacement

Client: Iron County Highway Department

The Iron County Highway Department retained Ayres Associates to design the replacement of the CTH “A” bridge. **The existing bridge approaches washed out in a flood in July 2016.** Ayres had designed the original bridge in 1995. When the approaches washed out, Saxon Harbor was severely damaged. Because of this, it was decided to replace the bridge on a new alignment so the harbor could be reconstructed. **The project was fast-tracked, and construction was completed in 2018.**

The new bridge is a three-span concrete haunched slab bridge. It replaced a 40-foot-long single-span concrete flat slab bridge. The new bridge is on a new alignment, and pedestrian accommodations were included.

Services included preparation of design study; development of traffic management plan; preparation of environmental report; design of structure; development of structure plans; construction phase services; and plans, specifications, and estimate.

Iron CTH “E”

Iron CTH “E” over Alder Creek

Client: Iron County Highway Department

Iron County retained Ayres Associates to replace a failed culvert pipe on CTH “E” at Alder Creek that caused significant flooding and led to a section of the highway washing out. **Ayres Associates’ emergency design called for replacement of the culvert pipe with a single-span concrete flat slab bridge.** Minor approach work was also completed at this site. A nearly $11,000 Federal Emergency Management Agency grant helped fund the project.

Ayres Associates staff worked aggressively to ensure that construction could begin quickly and be complete before the annual Paavo Nurmi Marathon that included CTH “E” on its course.

> “Before the new bridge went in on CTH ‘E,’ we had flooding problems every year at the site. Since Ayres Associates designed the new bridge, there’s never been a flooding problem again.”
>
> – Iron County Highway Commissioner Mike Swartz

STH 13

Ashland County STH 13 (Golf Course Road to Buttersworth Road) Roadway and Silver Creek Bridge Replacement

Client: WisDOT, Northwest Region

WisDOT's Northwest Region hired Ayres Associates to design the replacement of the culvert carrying Silver Creek under STH 13 in Ashland County and to prepare preliminary and final roadway plans to repair or replace decayed culvert pipes, flatten slopes, and repair existing box culverts on 18 miles of STH 13 between Mellen and Ashland.

Ayres evaluated cost effectiveness and environmental constraints in determining the preferred structure type for the Silver Creek crossing – box culvert or bridge. Approaches were reconstructed to accommodate the preferred structure. Minor real estate acquisition was needed, and wetland impacts required delineation.

Roadway plan development for STH 13 between Golf Course Road and Buttersworth Road included agency coordination; reports; environmental document; supplemental survey; right-of-way plat; public involvement; and plans, specifications, and estimates. Seven box culverts underwent repairs for separated joints, broken wing walls, scour holes, and associated slope failure. More than 70 culverts and channel crossings were evaluated for the project. The sizes of existing channel crossings were checked against current standards, and if the existing crossing was inadequate, a recommendation was made for an adequately sized replacement crossing.

In July 2016 a flood washed out box culverts at two sites along the project. Ayres was already designing a replacement for one of them (Silver Creek) before the washout occurred, and an emergency replacement for the second (Trout Brook) was added to our project. **We had surveyors on the scene within two days, and design was accelerated** to get both open before the end of the year.

Ayres Associates provided conceptual design and hydraulics services for the replacement bridge over Trout Brook. WisDOT provided final structural design.

Calumet County Bridge Inspections 2018-19

Client: Calumet County Highway Department

The Calumet County Highway Department selected Ayres Associates to complete the routine and underwater inspection of its bridges in 2018 and 2019, including 49 routine inspections and three underwater inspections. Ayres Associates is providing qualified Inspection Team Leaders, divers, and team members along with associated bridge inspection equipment. The bridge inspection reports will be processed in WisDOT's Highway Structure Information System (HSIS). Ayres previously completed the 2012-13, 2014-15, and 2016-17 cycles of Calumet County's bridge inspections.

The inspections in this contract include three underwater inspections requiring specialized training and equipment.

Kewaunee County Bridge Inspections 2018-19

Client: Kewaunee County Highway Department

The Kewaunee County Highway Department selected Ayres Associates to complete the 2018 and 2019 inspections of bridges maintained by the Department. Inspections include 73 routine bridge inspections, one fracture-critical inspection, one underwater inspection in 2018 and seven in 2019, and 12-month routine inspection of bridges as required in 2019. Ayres previously completed bridge inspections for Kewaunee County in the 2014-15 and 2016-17 cycles.

Staff Qualifications

Green Lake CTH "PP"
(Ayres Design)

Ayres Associates will provide an experienced team to Green Lake County for its transportation projects. Our team of professional engineers, technicians, and support staff has successfully completed many similar projects throughout central Wisconsin. The organization chart below shows the key staff of our project team; an expertise chart and brief bios are provided on the following pages.

Green Lake County Highway Department

Staff Member	Role
Ryan Schaitel, PE	Project Manager, Public Involvement

Staff Member	Role
Ryan Schaitel, PE Phil Verville, PE	Highway Design, Utility Coordination, Design Reports
Troy Robillard, PE	Quality Assurance/ Quality Control
John Davis, PE, PTOE Tristan Hickman, PE	Traffic Analysis
Ryan Beltrand, PLS Brian Glaszcz, PLS	Survey, Plat
Pete Kolaszewski, PE	Stormwater
Kevin Kuhlow, PE	Roundabout Analysis/Design
Keith Nikolay, PE Adam Gaugh, PE Chelsea Seibert	Construction Management/ Inspection
Christopher McMahon, PE, CBI Dan Sydow, PE	Structural Engineering
Brian Schroeder, PE, CBI Cory Thomson, PE	Structural Inspection
Robert Wayne	Wetland Delineation
Andrew Barney, PE, CFM	H&H, Floodplain Studies
Blake Theisen, PLA Bruce Morrow, PLA, LEED AP	Landscape Architecture
Jason Krueger, CP, GISP Adam Derringer, GISP	Aerial Mapping, GIS
Scott Wilson, PSS	Environmental, Grants/Funding

Employee Expertise

Employee	Urban Highway Design	Rural Highway Design	Drainage Design	Pavement Design	Field Layout/ Inspection	Construction Administration	Construction Observation	Traffic Engineering	Roundabout Design	Wetland Delineation	H&H Studies/ Water Resources	Floodplain Studies	Agency/Utility Coord.\Permits	Bridge Inspection	Structure Design	Aerial Mapping	Survey/Plats	Landscape Design	Pavement/Culvert Condition studies	Environmental Studies	GIS	Grants/Funding
Ryan Schaitel, PE	•	•	•	•	•	•	•						•						•			
Phil Verville, PE	•	•	•	•	•	•	•						•						•			
Troy Robillard, PE	•	•	•	•	•	•	•						•						•			
John Davis, PE, PTOE								•														
Tristan Hickman, PE								•	•													
Ryan Beltrand, PLS																	•					
Brian Glaszcz, PLS																	•					
Pete Kolaszewski, PE			•																			
Kevin Kuhlow, PE	•	•							•													
Keith Nikolay, PE						•	•															
Adam Gaugh, PE						•	•															
Chelsea Seibert	•	•	•	•	•	•	•															
Chris McMahon, PE, CBI														•	•							
Dan Sydow, PE															•							
Brian Schroeder, PE, CBI														•								
Cory Thomson, PE						•	•							•								
Robert Wayne										•												
Andrew Barney, PE, CFM											•	•										
Blake Theisen, PLA																		•				
Bruce Morrow, PLA, LEED AP																		•				
Jason Krueger, CP, GISP																•						
Adam Derringer, GISP																•					•	
Scott Wilson, PSS																				•		•

Ryan Schaitel, PE

Registration: Registered Professional Engineer, WI
Education: BS, Civil Engineering, University of Wisconsin-Platteville, 2010
Years of Experience: 8

Ryan joined Ayres Associates' transportation engineering staff in September 2011, bringing experience as an engineer/ estimator on roadway, utility, and building projects for a grading/ excavating contractor. His duties at Ayres Associates include working as a project manager for bridge and roadway projects; state and county rural and urban highway design; environmental, design study, and other technical documents; and assisting with public involvement programs. Ryan also provides construction observation services on transportation projects.

Phillip Verville III, PE

Registration: Registered Professional Engineer, WI
Education: BS, Civil Engineering – Transportation, Michigan Technological University, 1999
Years of Experience: 20

As a transportation engineer, Phil works as a project manager and roadway engineer to complete transportation design and construction projects. He has experience in highway and municipal projects, including highway, bridge, and storm sewer facilities. His responsibilities include state and county highway design, urban street design, and construction observation.

Troy Robillard, PE

Registration: Registered Professional Engineer, WI, MI, GA
Education: BS, Civil Engineering, University of Wisconsin-Madison, 1997
Years of Experience: 21

Troy is the manager of transportation services in Ayres Associates' Green Bay and Waukesha offices, and he works as a project manager to complete transportation design projects. He has experience in highway and municipal projects, including rural and urban highway, bridge, street, and storm sewer facilities. His responsibilities include state and county highway design, urban street design, environmental documentation, and public involvement.

John Davis, PE, PTOE

Registration: Registered Professional Engineer, WI, AZ, CO, WY, GA, IN, FL, IL, MN, IA
Certifications: Professional Traffic Operations Engineer; Traffic Signal Operations Specialist; WisDOT Certified Traffic Impact Analysis Preparer
Education: MS, Civil Engineering, Purdue University, 1987; BS, Civil Engineering, Purdue University, 1982
Years of Experience: 36

John previously dedicated more than 20 years to serving the traffic divisions in large metropolitan areas. His project experience includes traffic control design and operations, geometric design, traffic impact studies, traffic control evaluations, traffic incident management, and freeway operations. He has demonstrated his commitment to moving the traffic engineering profession forward as a fellow of the Institute of Transportation Engineers (ITE) since 1998 and as a member of ITE since 1981. John has served ITE in various elected and appointed capacities.

Tristan Hickman, PE

Registration: Registered Professional Engineer, WI, FL, WY
Certifications: WisDOT Certified Traffic Impact Analysis Preparer
Education: BS, Civil Engineering, University of Wisconsin-Milwaukee, 2007
Years of Experience: 11

Tristan performs studies for intersections, interchanges, and freeway capacity analysis; traffic counting; warrant studies; traffic signal design; transportation management plan development;

traffic operations analysis; pavement marking and permanent signing design; and intersection geometric design for signalized and roundabout intersections. Tristan has prepared traffic impact analyses for proposed developments, intersection control evaluations, crash and safety studies, and signal designs. He has designed 60 traffic signals for various locations in Wisconsin, Florida, and Wyoming. He also assists the transportation engineering professional staff with roadway design; design study report preparation; plan development; and presentations at public information meetings.

Ryan Beltrand, PLS

Registration: Professional Land Surveyor, WI, IL, NM, TX
Education: BS, Land Surveying, Michigan Technological University, 2004
Years of Experience: 15

Ryan is responsible for a variety of field surveys, map and plat preparation, and the management of multiple survey crews on large projects. His areas of expertise include geodetic control survey, topographic survey, utility survey, construction staking, right-of-way survey and staking, land records research, legal description preparation, survey map and plat preparation, and underwater inspection equipment operation.

Brian Glaszcz, PLS

Registration: Professional Land Surveyor, WI
Education: BS, Industrial Technology, University of North Dakota, 1994
Years of Experience: 11

Brian has experience with transmission line planning, design, construction, and maintenance; substation scanning; municipal infrastructure; landfill surveys; commercial developments; construction layout, subdivision layout, topographic surveys, as-built surveys, and level loops. Brian has created legal descriptions for new parcels, and he has developed surveys, exhibits, and terrain surfaces using AutoCAD. He has performed third-party quality control surveys on civil and Wisconsin Department of Transportation projects and provided survey support on large environmental remediation projects. He performs bathymetric surveys and performs all aspects of boundary surveys (ALTA, certified survey map, and plat of survey).

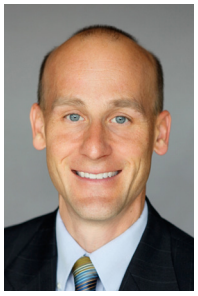
Peter Kolaszewski, PE

Registration: Registered Professional Engineer, WI
Education: BS, Civil Engineering, University of Wisconsin-Madison, 2004
Years of Experience: 15

As a member of the Green Bay municipal engineering staff, Pete works on municipal design and construction projects with a special emphasis on stormwater management, storm sewer design, sanitary sewer and water main systems, and wastewater treatment. His experience includes site design, design of sanitary and storm sewer collection systems, roadway construction, utility extensions, lift stations, wastewater treatment systems, and construction observation and administration of these projects. He has also performed MS4 stormwater modeling, TMDL analysis, water system studies, and sanitary sewer system infiltration and inflow studies.

Kevin Kuhlow, PE

Registration: Registered Professional Engineer, WI, MN, AR, FL, IL, IN
Education: BS, Civil Engineering, University of Wisconsin-Madison, 1995
Years of Experience: 23



Kevin is a leading roundabout designer in the United States. He has focused on roundabouts for much of his career, including feasibility studies, operational analysis, design, review, construction observation assistance, and training. He

has been involved with developing hundreds of roundabouts throughout North America since 2000, ranging from single-lane roundabouts to complex three-lane roundabouts.

Keith Nikolay, PE

Registration: Registered Professional Engineer, WI, FL
Education: BS, Civil Engineering, University of Wisconsin-Platteville, 1996
Years of Experience: 22

Keith works as a project manager to complete and coordinate construction projects throughout Wisconsin. He is responsible for coordinating all transportation construction work for the Wisconsin Ayres Associates offices and ensures each project is adequately staffed, properly supplied, and meets project deadlines. He has performed duties as project construction leader for various WisDOT construction projects ranging from rehabilitating roadways and structures; reconstructing urban and rural roadways, and structure replacement. This broad range of experience has enabled him to excel as a project manager and become an asset to the projects.

Adam Gaugh, PE

Registration: Registered Professional Engineer, WI
Certifications: Certified Nuclear Density Technician (NUCDENSITYTEC 1); Portland Cement Concrete Technician 1 (PCCTEC 1); WisDOT Transportation Materials Sampling (TMS)
Education: BS, Civil Engineering, Michigan Technological University, 2007
Years of Experience: 12

Adam has experience in performing duties as a project construction leader for various roadway and structure rehabilitation projects, along with roadway reconstruction projects. Adam has experience in earthwork inspection, mainline concrete paving, concrete rehabilitation, erosion control acceptance, and the replacement of the paint system on steel girders for bridges.

Chelsea Seibert

Education: BS, Civil Engineering – Municipal and Transportation, University of Wisconsin-Platteville, 2015
Years of Experience: 3

Chelsea primarily works on state, county, and municipal roadway projects and assists with the development of municipal water, sanitary sewer, and stormwater projects. Responsibilities include construction observation and administration, materials review and testing, and investigating and solving field issues. Other duties include assisting with engineering design and construction phase tasks, including plan design development, specifications, studies and modeling, cost estimates, permit submittals, and CADD.

Christopher McMahon, PE, CBI

Registration: Registered Professional Engineer, WI, WY, CO, AZ, MI
Certifications: Certified Bridge Inspector, WI; FHWA NHI 130053 Bridge Inspection Refresher; FHWA NHI 130055 Safety Inspection of In-Service Bridges; PADI Certified Scuba Diver
Education: BS, Civil Engineering, University of Wisconsin-Platteville, 1989
Years of Experience: 30

Chris, a structural engineer with Ayres Associates since 1989, brings remarkable consistency to his structural design, rehabilitation, and analysis work. Chris has designed bridges in 71 of 72 counties in Wisconsin. His comprehensive understanding of structural engineering goes well beyond his design work on hundreds of bridges. He performs bridge inspections, prepares studies for large-scale projects involving multiple structures, and provides structural reviews. Chris methodically and painstakingly goes about completing and checking structural designs, adding an extremely high level of confidence to every project he touches. This reputation for accurate, easy-to-read plans leads contractors to bid Ayres-

designed projects tighter. Clients and industry groups also recognize the quality and precision Chris brings to projects and have awarded recognition to many of his projects.

Dan Sydow, PE

Registration: Registered Professional Engineer, WI, IL, MN
Education: BS, Civil and Environmental Engineering, University of Wisconsin-Madison, 2001
Years of Experience: 17

As a structural engineer, Dan's responsibilities include project management and engineering of various types of highway, railroad, and pedestrian bridges and related structures, including long-span bridges, curved bridges, and highly skewed bridges; bridge rehabilitation; and structural repairs. Dan has designed hundreds of bridge replacements or rehabilitations, most of which have been Wisconsin Department of Transportation (WisDOT) projects containing large and small structure designs. He has worked on structures in nearly all Wisconsin counties and in nine other states. Daniel's experience on large projects and his consistent attention to detail mean he delivers solid structural engineering whether the project involves a culvert or a multiple-span bridge.

Brian Schroeder, PE, CBI

Registration: Registered Professional Engineer, WI, WA, UT, SD, OR, NE, ND, MN, MI, IA, GA, FL, CO, AZ
Certifications: AWS Certified Weld Inspector; Boating Safety Certification – Wisconsin, NASBLA; Certified Advanced Open Water Diver; Certified Bridge Inspector, WI; Certified Rope Access Worker, Society of Professional Rope Access Technicians; Confined Space Training, University of South Florida; FHWA NHI 130053 Bridge Inspection Refresher, NHI; FHWA NHI 130055 Safety Inspection of In-Service Bridges, NHI; FHWA NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges, NHI; FHWA NHI 130087 Inspection and Maintenance of Ancillary Highway Structures, NHI; FHWA NHI 130091 Underwater Bridge Inspection, NHI; FHWA NHI 135047 Stream Stability and Scour at Highway Bridges, NHI; FHWA NHI 420018 Instructor Development, NHI; NDT Level 2 Ultrasonic Testing, Superior NDT Technology, Inc.; Transportation Workers Identification Credential
Education: MS, Welding Engineering, Ohio State University, 2012; BS, Civil Engineering, North Dakota State University, 1999
Years of Experience: 19

Brian's structural inspection work includes topside and underwater inspections of dams and bridges as well as ancillary structure inspections as a qualified team inspection leader. He is an American Welding Society Certified Weld Inspector and Society of Professional Rope Access Technicians certified worker. He has completed hundreds of bridge inspections for state, federal, and local agencies throughout his career. He manages inspection projects, supervises structural inspection staff, and completes inspections as a team leader, diver, and climber.

Cory Thomson, PE, CBI

Registration: Registered Professional Engineer, WI, FL, MI,
Certifications: Certified Bridge Inspector, WI; Certified Nuclear Density Technician (NUCDENSITYTEC 1), WisDOT; Certified Professional in Erosion and Sediment Control, CPESC; FHWA NHI 130055 Safety Inspection of In-Service Bridges, NHI; FHWA NHI 130078 Fracture Critical Inspection Techniques for Steel Bridges, NHI; FHWA NHI 130091 Underwater Bridge Inspection, NHI; Hazardous Materials Transportation Certification, NET; Nuclear Gauge Safety, WisDOT; Open Water Diver, Level 1, PADI; Portland Cement Concrete Technician 1 (PCCTEC 1), WisDOT; Portland Cement Concrete Technician 1 (PCCTEC 1), WisDOT; Transportation Materials Sampling (TMS), WisDOT; WisDOT Materials Coordinator, WisDOT
Education: BS, Civil Engineering, University of Wisconsin-Platteville, 2001
Years of Experience: 17

Cory has 16 years of experience in municipal and transportation design and construction management. He has served as the construction project manager on several municipal projects that include small rural to more complex urban reconstruction projects. Cory has also served as project construction leader (PCL)

on WisDOT projects that included simple resurfacing to medium rural/urban reconstruction. With this diverse background in municipal and transportation fields, he communicates with all parties involved, including the public, to keep a project moving forward. Cory's capabilities include public involvement, project management, constructability review, erosion control review, material testing and documentation, quantity measurement and documentation, and final project submittal. He is also a certified bridge inspector and has performed both underwater and routine bridge inspections.

Robert Wayne

Certifications: American Concrete Institute Concrete Field Testing Technician Grade 1; Boating Safety Certification – Wisconsin, NASBLA
Education: BS, Conservation/Soil Science, University of Wisconsin-River Falls, 2014
Years of Experience: 4

Robert provides wetland delineations, hydro surveying, drafting of preliminary plans, field inspections, construction observation, and assistance with regulatory compliance and environmental permitting. Robert has experience in waste storage facility construction, conservation practices and structures, and wetland reserve program monitoring.

Andrew Barney, PE, CFM

Registration: Registered Professional Engineer, WI
Certifications: Certified Floodplain Manager, ASFPM
Education: MEng, Civil Engineering – Hydraulics, Utah State University, 2011; BS, Civil Engineering, Brigham Young University, 2008
Years of Experience: 6

Andrew has experience in water resources engineering and modeling. Andrew is a certified floodplain manager and assists with the analysis and design of water resources projects. His responsibilities include hydrologic and hydraulic analyses, dam safety evaluations, the design and analysis of hydraulic structures, and hydraulic modeling and mapping of rivers, including floodplain and dam break studies.

Blake Theisen, PLA

Registration: Professional Landscape Architect, WI, TX, MN, AZ, MI, IN, IA, CO, IL
Certifications: Council of Landscape Architectural Registration Boards; ISA Certified Arborist
Education: BA, Botany, Miami University of Oxford Ohio, 1999
Years of Experience: 19

Blake has been providing exceptional recreational facility site analysis, planning, design, and implementation since 1999. His start-to-finish involvement ensures that projects are delivered on time and as envisioned. A skilled and visionary project leader, Blake's project expertise includes comprehensive outdoor recreation plans, park master plans, athletic complexes, community water parks, skate parks, and playgrounds. With a background in botany and ecology, he promotes environmental stewardship throughout facility planning and design.

Blake is a regular speaker at state and national conferences on the subjects of innovative design and materials use, public involvement, and community planning. He is a skilled public process facilitator and a trusted convener of community leaders. From a project's conceptualization through its planning and development, he strives for practical, sustainable solutions.

Bruce Morrow, PLA, LEED AP

Registration: Professional Landscape Architect, WI
Certifications: Leadership in Energy and Environmental Design Accredited Professional
Education: MRP, Planning, Washington State University, 1994; BSLA, Landscape Architecture, Washington State University, 1992; BA, Economics, Kalamazoo College, 1982
Years of Experience: 24

Bruce manages our landscape architecture staff in Madison and Eau Claire, placing a high value on recognizing and fully taking advantage of the strengths of his team. He has been providing planning, design, and implementation services since 1995. Working with public and private clients, his projects range in size from individual site developments to large city center master plans. Bruce excels in all stages of project development from schematic design to construction documentation and sustainable design. Bruce also has an accomplished transportation resume.

Jason Krueger, CP, GISP

Registration: Certified Photogrammetrist, ASPRS, US
Certifications: Geographic Information Systems Professional, GISCI
Education: BS, Geography, University of Wisconsin-Stevens Point, 1997
Years of Experience: 21

Jason brings experience in the fields of mapping and GIS. He has worked both as a technician and as a project manager for a broad range of mapping and land information services, and his experience includes work in the public and private sectors. His specialties include lidar and photogrammetry project design, flight planning, and customized spatial data services.

Adam Derringer, GISP

Certifications: Certified ArcGIS Desktop Professional, Esri; Certified Geographic Information Systems Professional, GIS Institute
Education: BS, Physical Geography/Cartography, University of Wisconsin-Stevens Point, 2001
Years of Experience: 18

Adam excels in project design and management, client relations, problem solving, bidding, estimating, budgeting, cost reduction, and staff training and development. He values long-term client relationships and works effectively on projects with multi-disciplinary teams. Adam has experience establishing and managing a GIS department. He also has experience in the public sector in Wisconsin, where he implemented Juneau County's first GIS. Adam has consulted worldwide on GIS department best practices and workflows, and he is the recipient of an international Esri Special Achievement in GIS award. He has extensive experience with geoprocessing, scripting, modeling, and data conversions.

Scott Wilson, PSS

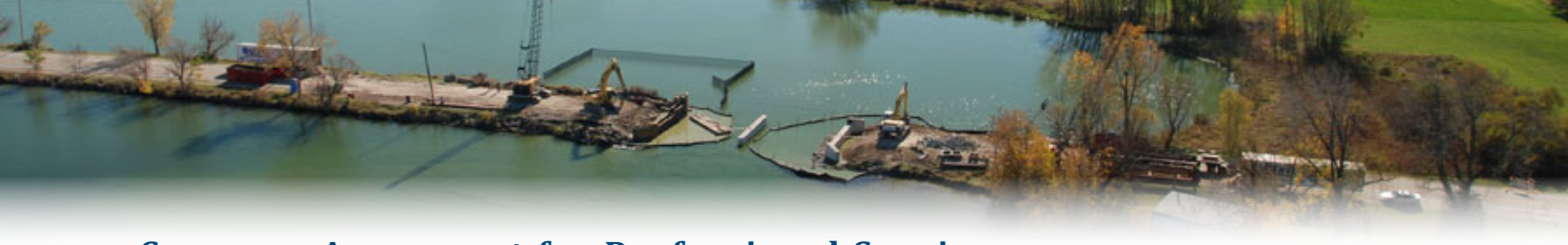
Registration: Professional Soil Scientist, WI
Education: MS, Soil Science and Forestry, University of Wisconsin-Madison, 1982; BS, Soil Science, University of Wisconsin-Madison, 1978
Years of Experience: 41

Scott is Ayres Associates' vice president of development services, overseeing the firm's environmental, planning, and landscape architecture operations. Scott has managed the environmental group since 1996. His efforts have helped shape the development services team into a group of experts with comprehensive experience in recovery and redevelopment of contaminated properties, driving projects from vision to cleanup to polished success stories.

Fee Schedule

Green Lake CTH "A"
(Ayres Design)

Classification	2019 Hourly Rate	2020 Hourly Rate
Manager	$174.00	$179.00
Senior Project Engineer	$166.00	$171.00
Engineer 3	$149.00	$153.00
Engineer 2	$116.00	$119.00
Engineer 1	$ 86.00	$ 89.00
Traffic Specialist 3	$186.00	$192.00
Traffic Specialist 2	$123.00	$127.00
Traffic Specialist 1	$ 96.00	$ 99.00
Senior LA	$128.00	$132.00
LA	$ 83.00	$ 85.00
Scientist	$ 82.00	$ 84.00
Surveyor (PLS)	$106.00	$109.00
Technician 3	$ 91.00	$ 94.00
Technician 2	$ 78.00	$ 80.00
Technician 1	$ 69.00	$ 71.00
Clerical	$ 67.00	$ 69.00



Company Agreement for Professional Services

MASTER AGREEMENT FOR
PROFESSIONAL SERVICES

THIS IS AN AGREEMENT made as of _____, 20____ between _____ _____ _____ _____ (OWNER) and Ayres Associates Inc, __address)_ _____ _____ (CONSULTANT).

OWNER intends to retain CONSULTANT from time to time to perform certain professional services as described in the Individual Project Supplements to this Master Agreement (hereinafter referred to as Attachments A, B, and C). Individual Project Supplements will be attached to and considered a part hereof on a project by project basis.

OWNER and CONSULTANT agree to performance of professional services by CONSULTANT and payment for those services by OWNER as set forth below.

The following Attachments are attached to and made a part of this Agreement.

Example Individual Project Supplement (Attachment A – Scope of Services, Attachment B – Period of Services, and Attachment C – Compensation and Payments), consisting of 1 page.
Attachment D - Terms and Conditions, consisting of ___ pages.
Attachment E - Insurance, consisting of ___ pages.

This Agreement (consisting of 1 page), together with the Attachments identified above, constitute the entire Master Agreement between OWNER and CONSULTANT and supersede all prior written or oral understandings. This Agreement and said Attachments may only be amended, supplemented, modified, or canceled by a duly executed written instrument.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement as of the day and year first written above.

_____ OWNER		Ayres Associates Inc CONSULTANT
_____	(Signature)	_____
_____	(Typed Name)	_____
_____	(Title)	_____
_____	(Date)	_____
_____	(Attest)	_____
_____	(Typed Name)	_____
_____	(Title)	_____

INDIVIDUAL PROJECT SUPPLEMENT TO
MASTER AGREEMENT FOR PROFESSIONAL SERVICES

This is an Individual Project Supplement dated _____, which is an attachment to the Master Agreement dated _____ between _____ (OWNER) and Ayres Associates Inc (CONSULTANT).

Project: _____

ATTACHMENT A - SCOPE OF SERVICES

ARTICLE 1 - BASIC SERVICES

ARTICLE 2 - ADDITIONAL SERVICES

ARTICLE 3 - OWNER'S RESPONSIBILITIES

ATTACHMENT B - PERIOD OF SERVICES

ARTICLE 4 - PERIOD OF SERVICES

ATTACHMENT C - COMPENSATION AND PAYMENTS

ARTICLE 5 - COMPENSATION AND PAYMENTS

IN WITNESS WHEREOF, the parties hereto have made and executed this Individual Project Supplement as of the day and year first written above.

_____		Ayres Associates Inc
OWNER		CONSULTANT
_____	(Signature)	_____
_____	(Typed Name)	_____
_____	(Title)	_____
_____	(Date)	_____

ATTACHMENT d - TERMS AND CONDITIONS

This is an attachment to the Master Agreement dated _____ between _____ (OWNER) and Ayres Associates Inc (CONSULTANT).

ARTICLE 6 - CONSTRUCTION COST AND OPINIONS OF COST

6.1 Construction Cost

The construction cost of the entire Project (herein referred to as "Construction Cost") means the total cost to OWNER of those portions of the entire project designed and specified by CONSULTANT, but it will not include CONSULTANT's compensation and expenses, the cost of land, rights-of-way, or compensation for or damages to, properties unless this Agreement so specifies, nor will it include OWNER's legal, accounting, insurance counseling or auditing services, or interest and financing charges incurred in connection with the Project or the cost of other services to be provided by others to OWNER pursuant to Attachment A.

6.2 Opinions of Probable Cost

6.2.1 Because CONSULTANT has no control over the cost of labor, materials, equipment or services furnished by others, or over Contractor(s)' methods of determining prices, or over competitive bidding or market conditions, CONSULTANT's opinions of probable Total Project Costs and Construction Cost provided for herein are to be made on the basis of CONSULTANT's experience, qualifications and judgment as an experienced and qualified professional, familiar with the construction industry; but CONSULTANT cannot and does not guarantee that proposals, bids or actual Project or Construction Costs will not vary from opinions of probable cost. If prior to the Bidding or Negotiating Phase OWNER wishes greater assurance as to Total Project or Construction Costs, OWNER shall employ an independent cost estimator.

6.2.2 If a Construction Cost limit is established by written agreement between OWNER and CONSULTANT and specifically set forth in this Agreement as a condition thereto, the following will apply.

6.2.2.1 The acceptance by OWNER at any time during the Basic Services of a revised opinion of probable Total Project or Construction Costs in excess of the then established cost limit will constitute a corresponding revision in the Construction Cost limit to the extent indicated in such revised opinion.

6.2.2.2 Any Construction Cost limit so established will include a contingency of ten percent unless another amount is agreed upon in writing.

6.2.2.3 CONSULTANT will be permitted to determine what types of materials, equipment and component systems are to be included in the Drawings and Specifications and to make reasonable adjustments in the general scope, extent and character of the Project to bring it within the cost limit.

6.2.2.4 If the Bidding or Negotiating Phase has not commenced within six months after completion of the Final Design Phase, the established Construction Cost limit will not be binding on CONSULTANT and OWNER shall consent to an adjustment in such cost limit commensurate with any applicable change in the general level of prices in the construction industry between the date of completion of the Final Design Phase and the date on which proposals or bids are sought.

6.2.2.5 If the lowest bona fide proposal or bid exceeds the established Construction Cost limit, OWNER shall (1) give written approval to increase such cost limit, (2) authorize negotiating or rebidding the Project within a reasonable time, or (3) cooperate in revising the Project's general scope, extent or character to the extent consistent with the Project's requirements and with sound practices. In the case of (3), CONSULTANT shall modify the Contract Documents as necessary to bring the Construction Cost within the cost limit. In lieu of other compensation for services in making such modifications, OWNER shall pay CONSULTANT, CONSULTANT's cost of such services, all overhead expenses reasonably related thereto and Reimbursable Expenses, but without profit to CONSULTANT on account of such services. The providing of such service will be the limit of CONSULTANT's

responsibility in this regard and, having done so, CONSULTANT shall be entitled to payment for services in accordance with this Agreement and will not otherwise be liable for damages attributable to the lowest bona fide proposal or bid exceeding the established Construction Cost.

ARTICLE 7 - GENERAL CONSIDERATIONS

7.1 Standard of Performance

The standard of care for all professional services performed or furnished by CONSULTANT under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality. CONSULTANT does not make any warranty or guarantee, expressed or implied, nor is this Agreement or contract subject to the provisions of any uniform commercial code. Similarly, CONSULTANT will not accept those terms and conditions offered by OWNER in its purchase order, requisition, or notice of authorization to proceed, except as set forth herein or expressly agreed to in writing. Written acknowledgement of receipt or the actual performance of services subsequent to receipt of such purchase order, requisition, or notice of authorization to proceed is specifically deemed not to constitute acceptance of any terms or conditions contrary to those set forth herein.

7.2 Reuse of Documents

All documents including Drawings and Specifications prepared or furnished by CONSULTANT (and independent professional associates and subconsultants) pursuant to this Agreement are instruments of service and CONSULTANT shall retain an ownership and property interest therein whether or not the Project is completed. OWNER may make and retain copies for information and reference in connection with use and occupancy of the Project by OWNER and others; however, such documents are not intended or represented to be suitable for reuse by OWNER or others on extensions of the Project or on any other project. Any reuse without written verification or adaptation by CONSULTANT for the specific purpose intended will be at OWNER's sole risk and without liability or legal exposure to CONSULTANT, or to independent professional associates or subconsultants, and OWNER shall indemnify and hold harmless CONSULTANT and independent professional associates and subconsultants from all claims, damages, losses and expenses including attorneys' fees arising out of or resulting therefrom. Any such verification or adaptation will entitle CONSULTANT to further compensation at rates to be agreed upon by OWNER and CONSULTANT.

7.3 Electronic Files

7.3.1 OWNER and CONSULTANT agree that any electronic files furnished by either party shall conform to the specifications agreed to at the time this Agreement is executed and listed elsewhere. Any changes to the electronic specifications by either OWNER or CONSULTANT are subject to review and acceptance by the other party. Additional services by CONSULTANT made necessary by changes to the electronic file specifications shall be compensated for as Additional Services.

7.3.2 Electronic files furnished by either party shall be subject to an acceptance period of 60 days during which the receiving party agrees to perform appropriate acceptance tests. The party furnishing the electronic file shall correct any discrepancies or errors detected and reported within the acceptance period. After the acceptance period, the electronic files shall be deemed to be accepted and neither party shall have any obligation to correct errors or maintain electronic files.

7.3.3 OWNER is aware that differences may exist between the electronic files delivered and the printed hard-copy documents. In the event of a conflict between the hard-copy documents prepared by CONSULTANT and electronic files, the hard-copy documents shall govern.

7.4 Insurance

CONSULTANT shall procure and maintain insurance for protection from claims under workers' compensation acts, claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any person other than such employees, and from claims or damages because of injury to or destruction of property including loss of use resulting therefrom. Requirements for insurance are amended and supplemented as indicated in Attachment E.

7.5 Termination

The obligation to provide further services under this Agreement may be terminated by either party upon 30 days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof through no fault of the terminating party.

7.6 Controlling Law

This Agreement is to be governed by the law of the place of business of CONSULTANT at the address hereinbefore stated.

7.7 Successors and Assigns

7.7.1 OWNER and CONSULTANT each is hereby bound and the partners, successors, executors, administrators and legal representatives of OWNER and CONSULTANT (and to the extent permitted by paragraph 7.7.2 the assigns of OWNER and CONSULTANT) are hereby bound to the other party to this Agreement and to the partners, successors, executors, administrators and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements and obligations of this Agreement.

7.7.2 Neither OWNER nor CONSULTANT shall assign, sublet or transfer any rights under or interest in this Agreement (including, but without limitation, moneys that may become due or moneys that are due) without the written consent of the other, except to the extent mandated or restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement. Nothing contained in this paragraph shall prevent CONSULTANT from employing such independent professional associates and subconsultants as CONSULTANT may deem appropriate to assist in the performance of services hereunder.

7.7.3 Nothing under this Agreement shall be construed to give any rights or benefits in this Agreement to anyone other than OWNER and CONSULTANT, and all duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of OWNER and CONSULTANT and not for the benefit of any other party.

7.8 Dispute Resolution

7.8.1 Negotiation. OWNER and CONSULTANT agree to negotiate all disputes between them in good faith for a period of 30 days from the date of notice prior to exercising their rights under the dispute resolution provision below or other provisions of this Agreement, or under law.

7.8.2 Mediation. If direct negotiations fail, OWNER and CONSULTANT agree that they shall submit any and all unsettled claims, counterclaims, disputes, and other matters in question between them arising out of or relating to this Agreement or the breach thereof to mediation in accordance with the Construction Industry Mediation Rules of the American Arbitration Association effective on the date of this Agreement prior to exercising other rights under law.

7.9 Exclusion of Special, Indirect, Consequential, and Liquidated Damages

CONSULTANT shall not be liable, in contract or tort or otherwise, for any special, indirect, consequential, or liquidated damages including specifically, but without limitation, loss of profit or revenue, loss of capital, delay damages, loss of goodwill, claim of third parties, or similar damages arising out of or connected in any way to the Project or this Agreement.

7.10 Betterment

If, due to CONSULTANT's negligence, a required item or component of the project is omitted from the construction documents, CONSULTANT's liability shall be limited to the reasonable cost of correction of the construction, less what OWNER's cost of including the omitted item or component in the original construction would have been had the item or component not been omitted. It is intended by this provision that CONSULTANT will not be responsible for any cost or expense that provides betterment, upgrade, or enhancement of the project.

ATTACHMENT E - INSURANCE

This is an attachment to the Master Agreement dated _____ between _____ (OWNER) and Ayres Associates Inc (CONSULTANT).

ARTICLE 8 - INSURANCE

8.1 Workers' Compensation

Workers' Compensation insurance covering the CONSULTANT for any and all claims which may arise against the CONSULTANT because of Workers' Compensation and Occupational Disease Acts shall be carried. The Employer's Liability Section shall have limits of not less than the following:

Each Accident:	$	100,000
Disease, Policy Limit:	$	500,000
Disease, Each Employee:	$	100,000

8.2 Commercial General Liability

Commercial General Liability insurance protecting the CONSULTANT against any and all general liability claims which may arise in the course of performance of this Agreement shall be carried. The limits of liability shall not be less than the following:

General Aggregate:	$	1,000,000
Products-Completed Operations Aggregate:	$	1,000,000
Personal and Advertising Injury:	$	1,000,000
Each Occurrence:	$	1,000,000

Property damage liability coverage shall not exclude explosion, collapse, and underground perils if CONSULTANT is engaged in these activities.

Commercial General Liability coverage shall also protect the CONSULTANT for the same limits of liability for claims which may arise because of the indemnity or contractual liability agreement contained within this Agreement.

8.3 Business Automobile Liability

Business Automobile Liability insurance including Owned, Non-Owned, and Hired vehicles shall be carried with a limit of not less than the following:

Bodily Injury and Property Damage,
Combined Single Limit: $ 1,000,000

8.4 Umbrella Excess Liability

Excess liability insurance (umbrella form) over underlying Employer's Liability, Commercial General Liability, and Business Automobile Liability shall be carried. The limits of liability shall be not less than the following:

Each Occurrence: $ 1,000,000
Aggregate: $ 1,000,000

8.5 Professional Liability (Errors and Omissions)

Professional Liability insurance protecting the CONSULTANT against Professional Liability claims which may arise in the course of this Agreement shall be carried. The limits of liability shall be not less than the following:

Each Claim: $ 1,000,000
Aggregate: $ 1,000,000

8.6 Valuable Papers

During the life of this Agreement, the CONSULTANT shall maintain in force Valuable Papers and Records insurance in an amount equal to the maximum exposure to loss of written, printed, or otherwise inscribed documents and records, including books, maps, films, drawings, abstracts, deeds, mortgages, and manuscripts as shall be required and/or produced in the completion of this Agreement by the CONSULTANT.

Insurance

ACORD®

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 1/2/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Arthur J. Gallagher Risk Management Services, Inc. 245 South Executive Drive, Suite 200 Brookfield WI 53005	**CONTACT NAME:** Sharon Bannach **PHONE (A/C, No, Ext):** 262-792-2214 **FAX (A/C, No):** 262-792-1712 **E-MAIL ADDRESS:** Sharon_Bannach@ajg.com
	INSURER(S) AFFORDING COVERAGE / **NAIC #**
INSURED AYREASS-02 AYRES ASSOCIATES INC 3433 Oakwood Hills Parkway Eau Claire, WI 54702-1509	**INSURER A :** Travelers Property Casualty Co of America — 25674 **INSURER B :** The Travelers Indemnity Company of CT — 25682 **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 844103742 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X **COMMERCIAL GENERAL LIABILITY** [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [X] PRO-JECT [ ] LOC [ ] OTHER:			P6302183P260TIA19	1/1/2019	1/1/2020	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 1,000,000 $ 300,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	**AUTOMOBILE LIABILITY** X ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS [X] HIRED AUTOS ONLY [X] NON-OWNED AUTOS ONLY			8102L352245	1/1/2019	1/1/2020	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 1,000,000 $ $ $ $
A	X **UMBRELLA LIAB** [X] OCCUR **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 0			CUP9J784097	1/1/2019	1/1/2020	EACH OCCURRENCE AGGREGATE Products/Compl Ops	$ 8,000,000 $ 8,000,000 $ 8,000,000
B	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		UB9H9437751843E	1/1/2019	1/1/2020	X PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

EVIDENCE OF COVERAGE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Michael Burg.

AYREASS-01 MNOWAK

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 06/25/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Johnson Insurance Madison 525 Junction Road Madison, WI 53717	PHONE (A/C, No, Ext): (800) 776-7055	FAX (A/C, No): (877) 254-8586
	E-MAIL ADDRESS: info@johnsonins.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : RLI Insurance Company	13056
INSURED	INSURER B :	
Ayres Associates Inc 3433 Oakwood Hills Pkwy Eau Claire, WI 54701	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	CLAIMS-MADE OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$
	OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						PER STATUTE OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) N / A						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Professional Liab			RDP0029291	06/30/2018	06/30/2019	Each Claim	5,000,000
A	Professional Liab			RDP0029291	06/30/2018	06/30/2019	Aggregate	10,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Claims Made - Environmental Coverage Included.

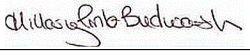
CERTIFICATE HOLDER

Evidence of Insurance

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



STATEMENT OF QUALIFICATIONS

PROFESSIONAL TRANSPORTATION ENGINEERING SERVICES

CORRE

ANSWERS
SOLUTIONS
RESULTS

Submitted to:
Green Lake County Highway Department
570 South Street
Green Lake, WI 54941

June 14, 2019

ANSWERS.
SOLUTIONS.
RESULTS.

CORRE

Oconomowoc Office
175 E. Wisconsin Avenue
Suite 27
Oconomowoc, WI 53168
608.828.1011 P
262.354.3015 F

June 14, 2019

Mr. Barry Mashuda, Highway Commissioner
Green Lake County Highway Department
570 South Street
Green Lake, WI 54941

Request for Statement of Qualifications
On-Call Professional Engineering Services

Dear Mr. Mashuda:

Thank you for this opportunity for CORRE, INC. (CORRE) to submit a Statement of Qualifications (SOQ) to the Green Lake County Highway Department for on-call engineering services related to transportation system mitigation planning, highway design, and construction. CORRE is a leader in providing full-service consulting engineering services for transportation enhancement projects throughout the State of Wisconsin, including federal, state, and locally-funded projects. Our commitment to quality service, responsiveness, and technical excellence drives every project, regardless of size.

We enjoyed providing structural design services to the County for the CTH S project over the Grand River and look forward to the opportunity to continue serving you.

There are a few key factors that set CORRE apart from the other qualified consultants for your project:

- ***We have a former highway commissioner on staff.*** Randy Anderson, previous Commissioner for the Jackson County Highway Department, is on staff at CORRE to help lead public involvement efforts and help streamline communication between the County, the public, and the consultant.
- ***We have experience providing design services for the County*** including the CTH S bridge over the Grand River. We are familiar with the area, the infrastructure, and the staff, offering a smooth transition into other projects.
- ***We are local.*** Two of our five Wisconsin offices, Madison and Oconomowoc, are within 90 minutes of Green Lake County, offering convenient travel to project sites for a majority of our design staff and project managers.

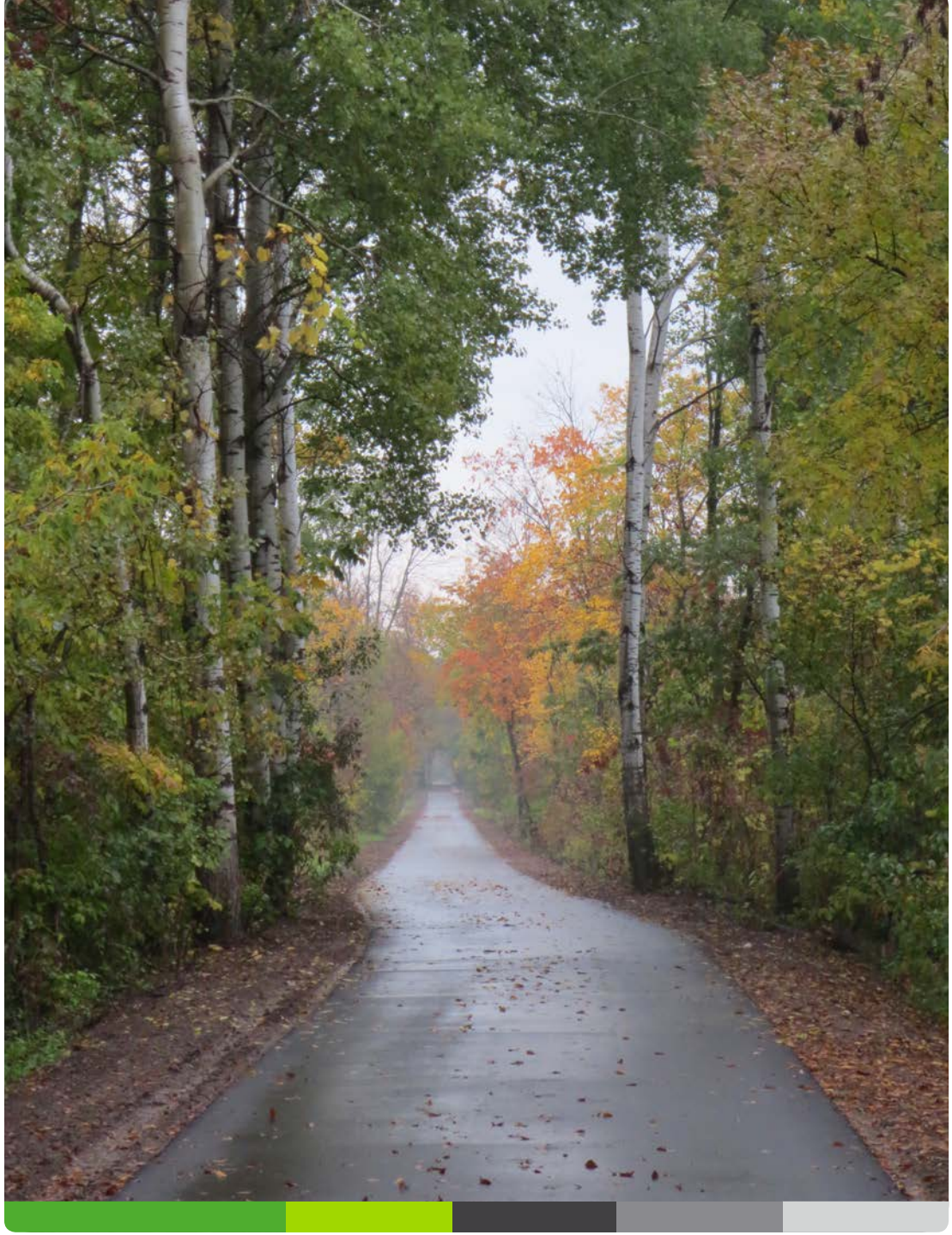
Our SOQ contains an overview of our firm and highlights our key staff and projects in each of our service areas. Our 2019-2020 Fee schedule, current Certificate of Insurance, and Standard Terms & Conditions can be found attached to end of the SOQ. Should you have any questions, please feel free to contact me at the information provided below. We appreciate your consideration.

Sincerely,

CORRE, INC.

Jessica Lewis

Jessica Lewis, PE
Project Manager
414.265.8070
jlewis@correinc.com



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ABOUT US

CORRE, INC.

CORRE is a full-service transportation engineering firm offering large-firm capabilities with small-firm attitude.

We serve local government and WisDOT in the areas of transportation and structural engineering; multi-use trail design and recreational planning; and environmental, real estate, public involvement, and construction services.

We offer a combination of professional and specialty services unmatched anywhere in the state. Since beginning operations in 2005, we have grown rapidly and attracted industry-recognized staff, including professional engineers and environmental and real estate specialists. By having the ability to complete a wide variety of services in-house, we are able to provide a cost-effective, high-quality product.

We navigate the red tape so you don't have to. When it comes to funding for design and construction, we understand the minutia of the processes and the required documentation. We design to meet ***your*** needs and provide the reports and approvals necessary to make sure your project meets local, state, and federal requirements.

THE NUMBERS

Founded: 2005
Employees: 75+
Offices: 5
Annual Revenue: $7M

MARKETS SERVED

Transportation
Municipal
Government
Real Estate
Energy

OFFICE LOCATIONS

Madison
Eau Claire
Oconomowoc
Green Bay
Wausau

Troy Gagner, PE | Chief Executive Officer/President

Mr. Gagner led the development and expansion of CORRE's service lines and became CEO in April of 2016. He has over 22 years of comprehensive experience on projects of all sizes, ranging from local projects to federally-funded Mega Projects, including the design and construction of roadways, airports, and structures.

PLANNING AND DESIGN SERVICES

Transportation Engineering
Municipal Engineering
Public Outreach
Structural Engineering
Environmental Services
Cultural Resources
Real Estate Services
Right of Way Plats
Survey (3D LiDAR Scanning)
Grants and Funding

CONSTRUCTION SERVICES

Construction Oversight
Contract Administration
Inspection
Survey and Staking
Materials Documentation
Constructability/Bidability Reviews
Highway Materials Testing

SPECIALISTS ON STAFF

Professional Engineers
Structural Engineers
Certified Bridge Inspectors
Underwater Dive Inspectors
Licensed Drone and ROV Operators
WisDOT Certified Technicians
Retired WisDOT Staff
Retired WisDNR Staff
Historians
Environmental Specialists
Professional Land Surveyors
GIS Specialists

PLANNING & DESIGN

Services

Roadways

CORRE has experience in transportation projects ranging from roadway resurfacing projects to large reconstruction and realignment projects. Our staff is well-versed in the various design guidelines and requirements associated with WisDOT-funded improvements.

Areas of Expertise

Urban and Rural Roadways
State and county highways
3R roadway resurfacing
Roadway reconstruction
Roadway realignment and expansion
Corridor studies

Non-Traditional Enhancements
On-road bicycle facilities
Off-road multi-use trails
Intersection, signage, and sidewalk improvements
Streetscapes

Funding Programs
State Transportation Program (STP-R and STP-U)
Local Bridge Program
Local Road Improvement Program (LRIP)
Transportation Economic Assistance (TEA) Program
Transportation Enhancement (TE)
Transportation Alternatives Program (TAP)
Safe Routes to School (SRTS)
Congestion Mitigation and Air Quality Program (CMAQ)

Multi-Use Trails & Recreational Planning

CORRE is skilled in all aspects of trail facilities development including projects of all sizes and varying complexities. Our multi-faceted WisDOT Non-Traditional Project experience allows us to understand your project from all angles.

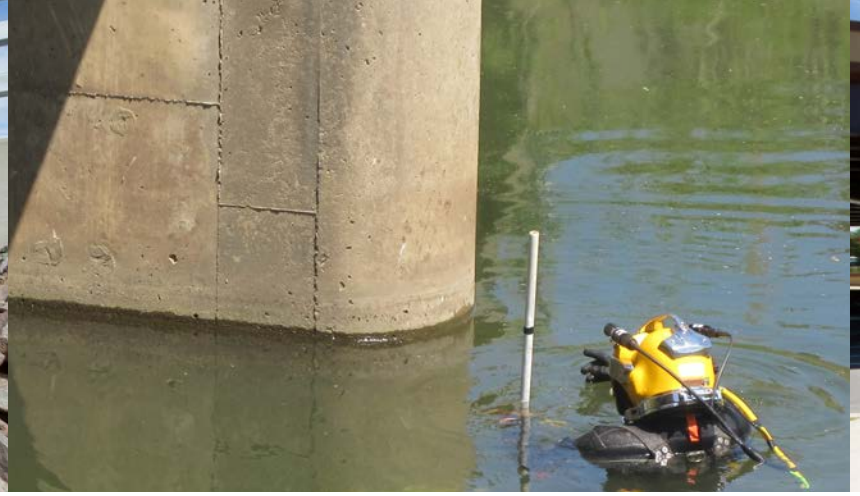
We also offer the perfect blend of technical, environmental, and artistic knowledge to develop innovative site planning and design solutions that meet your visions and needs. Our staff is well-versed in the various design guidelines and has strong experience in securing alternative funding based on a project's specific needs, location, and audience.

Areas of Expertise

Trail planning and design
WisDOT Non-Traditional Projects
Americans with Disabilities Act (ADA) audits
Funding
Structure design (boardwalks and bridges)
Grant proposal assistance
Public outreach
Wetland delineation
Environmental permitting
Real estate
Interagency coordination
Construction oversight

Specialists On-Staff

- GIS specialists for planning and public outreach
- Structural engineers for boardwalks and bridges
- Former WisDNR specialists
- Real estate agents to cover appraisal and acquisition needs
- Historical specialists to address potential historical sites


Structures

CORRE's structural engineers offer extensive experience in standard and complex structural design, inspection, and construction oversight. Our engineers have a strong working relationship with the WisDOT Bureau of Structures and local communities on all types of structures.

Areas of Expertise

New structure design
Structural rehabilitation and replacement design
Complex structure design
Box culvert design
Retaining wall design
Sign structure design
Underwater dive inspections
Load ratings
Condition reports
Bridge rehabilitation reports
Complex foundation design
Structural life-cycle cost analyses

Bridge Inspections

CORRE has six certified bridge inspectors on staff to efficiently complete work throughout the State. These individuals fully understand the requirements outlined in the Federal National Bridge Inspection Standards (NBIS), the current AASHTO Manual for Condition Evaluation of Bridges, the State of Wisconsin Bridge Maintenance and Inspection Manuals (latest editions), and the WisDOT Structural Inspection Manual.

Areas of Expertise

Routine bridge inspections
In-depth bridge inspections
Damage bridge inspections
Fracture critical bridge inspections
Underwater bridge inspections
Load ratings
Condition reports
Bridge rehabilitation reports

Surveys and Maps

CORRE's professional land surveyors have experience working on projects of all sizes and complexity while serving both public and private sectors. They understand the entire process from records research and field survey to the recording of final documents with the Register of Deeds office. We also offer 3D LiDAR scanning capabilities.

Areas of Expertise

Transportation Project Plats (TPPs)
Traditional right of way plats
Topographic, as-built, ALTA/NSPS, and boundary surveys
Certified Survey Maps (CSMs)
Plats of survey
Legal descriptions
Mapping and Geographic Information Systems (GIS)
Terrestrial LiDAR (3D scanning)
Global Positioning System (GPS) robotics
Construction and boundary staking
Right of way documents
Section corner research and maintenance
USPLS monumentation projects
Expert witness for licensing and boundary disputes
Records research

Environmental Services

CORRE brings an unmatched level of knowledge and expertise in the area of environmental analysis ranging from environmental documentation to aquatic plant and water resource management planning. Our staff is well-versed in various state and federal requirements and has developed WisDOT training on the environmental documentation process.

Areas of Expertise

WisDOT environmental documentation
Agency coordination and permitting
Threatened/endangered species investigations
Wetland delineation
Wetland permitting, mitigation, design, mapping, and monitoring
Historical evaluations and mitigation plans
Hazardous materials assessment and management
Aquatic plant and water resource management planning

Key Staff

Kevin Meyer, PE | Director of Transportation Services

- 17 years of experience in roadway design and construction
- Experience includes managing transportation projects of all sizes
- Sought after to train and mentor other engineers in the state
- Well-versed in the WisDOT process and FDM guidelines
- Skilled in public outreach and involvement
- Experienced in writing and reviewing environmental documents

EDUCATION
BS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): WI

Bill Hove, PE, SE | Director of Structural Services

- 23 years of WisDOT structure design experience
- Skilled in all aspects of the WisDOT structural project development process
- Worked on over 250 structures for Wisconsin clients
- Reviewed over 400 preliminary plans on behalf of WisDOT's BOS
- Skilled at automating bridge engineering design processes
- Strong leadership and project management skills

EDUCATION
BS: Civil Engineering
BS: Building Construction Management

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): NM, MO, WI
Structural Engineer (SE): IL
FHWA/WisDOT Certified Bridge Inspector

Jessica Lewis, PE | Transportation Engineer and Project Manger

- 18 years of engineering experience includes planning, design, and management
- Experience includes transportation, public works, and construction engineering
- Clients include both WisDOT and local government
- Exceptional organizational and communication skills
- Able to successfully manage complex multi-jurisdictional reconstruction projects

EDUCATION
BS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): WI

> *I have never in 17 years worked with a consultant that worked so hard to keep us in the loop. [Kevin] kept us well informed."*
>
> *CTH A Reconstruction, Mark Servi,*
> *Barron County Highway Commissioner*

> *.....CORRE did an outstanding job for us on this project. As you know, we 'took a chance' bringing... Your staff made our decision look golden!""*

Eric Price, PE | Structural Engineer and Project Manager

- 16 years of experience in bridge replacement and rehabilitation engineering
- Experience includes management, planning, and design of various structure types
- Projects include highway, railroad, and stream crossing structures
- Has designed of over 155 structures

EDUCATION
BS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): WI, IA
Certified Bridge Inspection Team Leader

Mark Pilgrim | Bridge Inspection Leader

- 26 years of experience on WisDOT projects
- Project Leader experience includes local road, highway, and bridge construction projects
- Extensive experience with field survey and proficient in AutoCAD drafting
- Fluent in FieldManager and materials documentation
- Completed over 1,800 bridge safety inspections for counties and municipalities
- Experienced in utility inspections

EDUCATION
AS: Civil Structural Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
NHI Certified Bridge Inspector: Safety, Fracture Critical
HTCP: AGGTEC-I, PCCTEC-I, NUCDENSITY, TMS

Charles “Steven” Melching, PE, PhD | Hydrologist

- Expertise in water quality, water resource management, hydrological modeling, and hydraulics
- 30-year career includes serving as a professor of Civil and Environmental Engineering and as a hydrologist with the U.S. Geological Survey
- Performed many hydrologic and water quality studies in the Great Lakes region and world-wide
- Authored or co-authored seven books, 31 journal articles, and 35 technical reports
- 2012 ASCE Outstanding Reviewer award from the Journal of Environmental Engineering
- Regularly invited to present at conferences world-wide

EDUCATION
PhD: Philosophy
MS: Civil Engineering

PROFESSIONAL LICENSES
Professional Engineer (PE): WI, IL, AZ
Board Certified Environmental Engineer
Diplomat, American Academy of Water Resource Engineers

Bryon Motszko, PE, PLS | Engineer & Surveyor

- 17 years of experience in transportation engineering and professional land surveying
- Experience includes design of rural and urban projects for WisDOT and local municipalities
- Knowledgeable of the WisDOT process
- Skilled in preparation of traditional right of way plats and transportation project plats
- Construction management expertise

EDUCATION
BS: Civil Engineering
BS: Land Survey Engineering

PROFESSIONAL LICENSES
Professional Engineer (PE): WI
Professional Land Surveyor (PLS): WI

Scott Koffarnus, PLS | Surveyor

- 16 years of experience in land surveying
- Specializes in Certified Survey Maps (CSMs), subdivision plats, condominium plats, ALTA surveys, plat of surveys, and topographic surveys
- Skilled in proper field procedures and latest technology including 3D LiDAR scanning
- Writes legal descriptions for parcels, easements, rezones, annexations, TIF districts, and floodplain removals

EDUCATION
AS: Civil Engineering

PROFESSIONAL LICENSES
Professional Land Surveyor (PLS): WI

Al Stranz | Environmental Specialist

- Over 30 years in environmental review of transportation and utility projects
- Experienced in evaluating and authorizing WisDOT projects for state regulatory compliance
- Awards include Wisconsin Trout Unlimited “DNR Professional of the Year” and the Posekany Award for Outstanding Environmental Achievement in Environmental Analysis

EDUCATION
BS: Biology

Bob Newbery | Historical Specialist

- Served as WisDOT's expert for impacts to historic structures for over 30 years
- Expertise in ensuring Section 106 and Section 4(f) compliance
- Expertise in cultural resources including National Environmental Policy Act (NEPA)
- Primary author of two versions of Chapter 26 of the FDM

EDUCATION
MA: History

Randy Anderson | Public Involvement Specialist

- 30 years of experience working in public sector with county highway departments
- Understands the importance of road management plans
- Proficient in utilizing available funding opportunities
- Experience presenting information to Town and County boards and various committees
- Skilled in discussions with public

PROFESSIONAL LICENSES
FHWA/WisDOT Certified Bridge Inspector

Design Support Staff

CORRE boasts a robust design support staff of over 15 professionals at various experience levels, including:

- Roadway designers
- Structure designers
- Hydraulic professionals
- CAD technicians
- Topographic and hydrographic surveyors
- GIS specialists

Project Spotlights

Award Winner

2017 Top Road Project in North America

Road and Bridge Magazine

Verona Road Interchange

USH 12/14/18 and USH 151, WisDOT IDs 1206-07-06/09, Dane County

CORRE provided survey and design services for this interchange reconstruction project at the confluence of USH 151 (Verona Road) and USH 12/14/18 (Beltline) in Madison. CORRE staff was responsible for the rehabilitation of twin multi-span structures carrying Verona Road over the Military Ridge State Trail, five large retaining walls consisting of both mechanically stabilized earth concrete panel and modular block walls, four large noise walls, and overhead sign structures.

KEY ELEMENTS

- Multi-span structure design
- Complex steel structure design
- Retaining wall design
- Design of 23 sign structures
- Survey

CLIENT
WisDOT

REFERENCE
Mark Vesperman, PE
WisDOT SW Region
608.884.1227
mark.vesperman@dot.wi.gov

DATES/COST
Design: 2011 – 2013
Construction: 2013 – 2016/$70M

CTH MD Stormwater Improvements

Washburn County

CLIENT Washburn County

KEY ELEMENTS

- Stormwater design
- Survey
- Environmentally sensitive area
- Extensive public involvement
- Coordination with County, Town, and Lake Association
- Agency coordination
- Successful WisDNR grant funding application
- Unique design concept utilizing barrier wall

Pike River Trail Shared-Use Path

Kenosha County, WisDOT ID 3330-00-05

CLIENT Kenosha County

KEY ELEMENTS

- Survey
- Wetland delineation
- Public outreach
- HazMAT investigation
- Trail design
- Boardwalk/structure design
- Hydrology and hydraulics
- Endangered species coordination
- Signalization/intersection improvements
- Interagency coordination
- State and local permitting
- WisDOT Non-Traditional Project

Short Street Reconstruction

WisDOT ID 7995-02-51, Eau Claire County

CLIENT City of Eau Claire

KEY ELEMENTS

- Rural to urban reconstruction
- Coordination with local municipality and future projects
- Storm sewer design
- Utility adjustments
- Multi-modal path design
- Bicycle lanes
- New State Trail connection
- Floodplain evaluation
- Environmental documentation
- WisDNR coordination
- Wetland determination
- Phase I HazMat
- Real estate acquisition

> ***“As you know, we ‘took a chance’ bringing CORRE on board for this project… Your staff made our decision look golden!”***
>
> *Mark Servi, Barron County Highway Commissioner*

CTH A Reconstruction

21 ¼ Street – CTH AA, Barron County, WisDOT ID 8837-00-00

CORRE completed design work for this 5.5-mile roadway reconstruction project in Barron County which included wetland delineation, utility relocations, cultural resource investigations, and intersection improvements. The roadway also had substandard horizontal and vertical curves, which were improved as part of the design. The project included historical documentation, which was completed in-house with CORRE staff, due to potentially eligible properties located along the corridor.

KEY ELEMENTS

- Survey
- Environmental Document
- Section 4(f) coordination
- Section 106 (historical)
- Design Study Report
- Right of way plat
- Pavement Design Report
- Transportation Project Plat
- Final PS&E
- On-site wetland mitigation
- Wetland delineation
- Preliminary and final design plans
- Trout stream relocation

CLIENT

Barron County

REFERENCE

Mark Servi
Highway Commissioner
Barron County
715.637.3755
mark.servi@co.barron.wi.us

DATES/COST

Design: 2013 – 2015
Construction: 2017/$2.9M

N. Harrison Hollow Road over Harrison Creek

Town of Viroqua, Vernon County

CLIENT Vernon County

KEY ELEMENTS

- Approach realignment
- Bridge replacement
- Right of way plat
- Acquisition services
- Utility coordination
- Agency coordination
- Public involvement

Bugline Trail Phases 1 - 4

WisDOT IDs 2984-34-71/72, Waukesha County

CLIENT Waukesha County Parks and Land Use

KEY ELEMENTS

- Trail design
- Extensive wetlands adjacent to project
- Over-excavation and HazMat
- Public outreach
- WisDOT and Local Non-Traditional Project
- Construction staging and oversight

WeEnergies Survey Master Contract

Wisconsin and Michigan

CLIENT We Energies

KEY ELEMENTS

- Right of way determination
- Easement creation
- Right of way and topographic mapping
- Stake-out of new utility facilities
- Acting as resource for right of way and easement questions

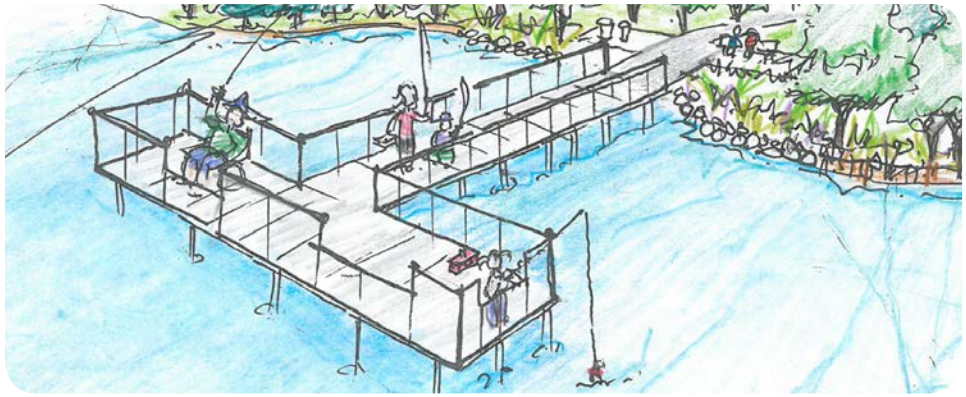
CTH FF over Beaver Creek

WisDOT ID 7321-00-00, Jackson County

CLIENT Jackson County

KEY ELEMENTS

- Bridge replacement and minor approach work
- WisDOT coordination
- Tribal coordination
- Environmental coordination
- Expedited bid date to improve bidding opportunities
- PS&E completed in under 12 months, one month early



County Parks Master Plan

Chippewa County

CLIENT Chippewa County

KEY ELEMENTS

- Community surveys
- Site inventory and analysis
- Concept illustrations
- Cost-estimates
- 10-year Capital Improvement Plan
- Master Plan document
- Presentations to committees and County Board

Grant & Funding Applications | Statewide

Amount	Project Name/Type	Client	Grant	Year
$1.4M	CTH B Reconstruction	Vilas County	WisDOT STP-Rural Grant	2018
$17M	CTH B Reconstruction	Vilas County	FHWA BUILD Grant	2018
$1.05M	CTH K Bridge Replacement	Vilas County	WisDOT Local Bridge Assistance Program	2018
$118K	CTH A Roadway Improvements	Marathon County/ Double P Dairy	WisDOT Transportation Economic Assistance (TEA)	2017
$12.9K	Pine Point Park Waterfront Renovation	Chippewa County	WisDNR County Conservation/Xcel Energy	2015
$200K	CTH M Stormwater Improvements	Washburn County	WisDNR Lake Protection	2013

Recent Project Listing

Roadway

CTH A, Barron County
CTH AA, Eau Claire County
CTH E, Dunn County
CTH E, Clark County
CTH F, Marathon County
CTH HH, Eau Claire County
CTH K, Eau Claire County
CTH M, Pierce County
CTH M/60th Avenue Intersection, Chippewa County
CTH MD, Washburn County
CTH N, Florence County
CTH VV Intersection, Chippewa County
CTH W Bike Feasibility Study, Vilas County
CTH Y, Oneida County
Poertner Road, Clark County
Short Street, City of Eau Claire
STH 58, Mauston to Necedah, Juneau County
STH 97, Marathon County

Structures

BOS Preliminary Plan Review Master Contract, WisDOT
Cramer Lake Road over the Turtle River, Iron County
CTH A over Sioux Creek, Barron County
CTH AA over Otter Creek, Eau Claire County
CTH B over E. Branch Eau Claire River, Langlade County
CTH D over Plum Creek, Brown County
CTH D over Big French Creek, Trempealeau County
CTH FF over Beaver Creek, Jackson County
CTH G over Long Lake Inlet, Iron County
CTH HH over Otter Creek, Eau Claire County
CTH HH over Clear Creek, Eau Claire County
CTH M over Fenwood Creek, Marathon County
CTH N over Little Sandy Creek, Marathon County
CTH NN over Spring Creek, Barron County
CTH S over Grand River, Green Lake County
CTH S over Scott Hollow Creek, Vernon County
CTH T over Turton Creek, Trempealeau County
CTH T and CTH Z Culvert Sizing, Brown County
CTH X over Fischer Creek, Manitowoc County
Culvert Sizing, Pierce County
Eddy Street over UPRR, Eau Claire County
I-43 Bridge Rehabilitation, WIsDOT
Jefferson Street Bridge, City of Burlington
N. Harrison Hollow Road over Harrison Creek, Vernon County
STH 32 Culvert Replacements, Racine County
STH 70 / S. Fork Flambeau River Bridge, Price County
USH 14 over Brewery Creek, Village of Cross Plains, Dane County
Verona Road Interchange, Dane County
W. Washington Road over the Meeme River, Manitowoc County

> ***...the project has been a huge success, as evidenced by the tremendous amount of use that the trail now receives, and from the many positive comments that we hear from County residents."*** *Steve Brunner, Landscape Architect, Waukesha County*

Parks/Open Space and Trails

Bugline Trail Phase 1 -4, Waukesha County
CTH C Shared-Use Path, Kenosha County
CTH E Shared-Use Path, Kenosha County
Glacial Drumlin State Trail, I-90/CTH N, Dane County
Lake Country Trail Underpass, City of Oconomowoc
Lutz Park Trail & Riverbank Stabilization, City of Appleton
Northeast Regional Trail Extension, City of Janesville
Oakleaf Trail Pedestrian Structures: Bender Park, Milwaukee County
Pike River Trail Shared-Use Path, Kenosha County
Province Terrace Trail, City of Menasha
Retzer Nature Center Boardwalk, Waukesha County
Waukesha to Brookfield Connector Trail, Waukesha County

Specialty

CTH M Section 4(f), Dane County
CTH MD Stormwater Improvements, Washburn County
Historical Services Mater Contract, WisDOT
NEPA Review Master Contract, WisDOT
Survey Master Contract, We Energies

REAL ESTATE

Services

CORRE has multiple real estate master contracts with WisDOT, meaning our entire real estate team has a commanding knowledge of the necessary state processes and protocols your projects require. We also have WisDOT LPA-approved staff who are skilled and proficient at WisDOT Local Program and Connecting Highway projects, including appraisers, acquisition agents, and relocation agents, giving you peace of mind. Our comprehensive team offers the following services:

Acquisition

Eminent domain (Wisconsin Statute Chapter 32)
WisDOT Real Estate Program Manual (REPM)
WisDOT Local Public Agency Manual for Right of Way Acquisition
Uniform Relocation Act
Corridor cost estimates
Property owner negotiations
Utility coordination and relocation
Fee, TLE, PLE, and highway easements
Special property negotiations (railroads, contaminated properties, billboards, severance damages)
All land uses (agricultural, commercial, residential, industrial)
Residential and commercial relocations

Appraisal

Appraisals and review of appraisals
Standard and unique land use valuation
Fee, highway easement, PLE, and TLE
Severance and proximity damages
Litigation assistance
Wide range of appraisals from simple to complex
Yellow Book appraisal process

Relocation

Multi-family units
Condominiums
Office space
Gas stations/convenience stores
Hotels/motels
Restaurants
Farms
Junk/salvage businesses
Storage units/companies

Specialists On-Staff

- Certified General Appraisers
- Acquisition Agents
- Relocation Agents
- Property/Asset Managers
- Professional Land Surveyors
- Support Staff
- Tribal Specialist
- Real Estate Broker
- Legal Advisor

Key Staff

Cindy White, SR/WA, CGA | Director of Real Estate Services

- Extensive real estate experience for WisDOT and local government
- Expertise includes appraisal, project management, and acquisition
- Well–versed in Wisconsin Statute Chapter 32, Federal Uniform Act requirements, and 49 CFR Part 24 appraisal policy
- Skilled at utilizing integration of quantitative and qualitative analysis
- Has completed over 250 appraisals and has worked on local and on-system projects

EDUCATION
BS: Biology

PROFESSIONAL LICENSES/CERTIFICATIONS
Certified General Appraiser (CGA): WI
Senior Right of Way Agent (SR/WA)
WisDOT-Approved Appraiser and Acquisition Agent
WisDOT LPA-Approved Appraiser and Acquisition Agent

Kathy Rudolph, SR/WA | Relocation and Acquisition Agent

- 19 years of experience providing professional real estate services
- Expertise includes right of way including acquisition, relocation, property management, and project management
- Has chaired multiple committees for the International Right of Way Association
- Served as IRWA President from 2015 to 2016
- Experience serving as an expert witness for relocation issues

EDUCATION
AD: Paralegal

PROFESSIONAL LICENSES/CERTIFICATIONS
Senior Right of Way Agent (SR/WA)
WisDOT-Approved Acquisition and Relocation Agent
WisDOT LPA-Approved Acquisition and Relocation Agent

Ann Davis, MAI, CGA | Appraiser

- Over 30 years of commercial real estate appraisal experience
- Extensive experience in eminent domain appraisal for government and property owners
- Provides litigation appraisals for the Wisconsin Department of Justice
- For 23 years was the owner and president of Davis Appraisals, Inc. in Wauwatosa, WI

EDUCATION
MBA
BA: Economics

PROFESSIONAL LICENSES/CERTIFICATIONS
MAI Designation, Appraisal Institute
Wisconsin Certified General Appraiser
WisDOT LPA-Approved Appraiser

Karly Kvapil | Real Estate Assistant

- Detail-oriented real estate assistant with experience serving as a paralegal intern
- Skilled in case research, file management, customer relations, and document review
- Knowledgeable of state and federal banking laws
- Skilled in communications with property owners, attorneys, register of deeds, appraisers, title companies, and other external entities to facilitate successful acquisition
- Able to interpret laws, rules, and policies and implement them accordingly

Sheri Cares | Real Estate Assistant

- 2 years of experience providing real estate appraisal, acquisition, and relocation support services
- Integral support role activities include preparing reports and managing project files
- Experience providing property management services

Derek Zwart | Acquisition Agent

- 16 years of experience in real estate
- Extensive experience with WisDOT's Southeast Region
- Highly skilled in communications
- Regularly facilitates successful acquisitions for local, county, state, and federal agencies
- Knowledgeable in the WisDOT-approved acquisition process, including LPA projects

EDUCATION
BS: Management Information Systems
BA: Accounting

PROFESSIONAL LICENSES/CERTIFICATIONS
WisDOT-Approved Acquisition Agent
WisDOT LPA-Approved Acquisition Agent

Megan Beer-Pemberton | Acquisition and Relocation Agent

- Experience in acquisition, relocation, and property management
- Well-versed in State Statute Chapter 32, Wisconsin Department of Administration Chapter 92, and the Federal Uniform Act requirements
- Expertise in acquisition involving utility release of rights
- Previous work in the NW Region as a real estate and property management specialist

EDUCATION
MA: Public History
BA: History and Secondary Education

PROFESSIONAL LICENSES/CERTIFICATIONS
WisDOT LPA-Approved Negotiator
WisDOT LPA-Approved Relocation Agent

Project Spotlights

I-39 Corridor

South, Central, and North Segments; Various WisDOT IDs; Dane County

This major corridor expansion from a four-lane interstate to a six-lane includes interchange work to facilitate the added lanes and create safety improvements. The project incorporates four separate real estate project IDs and 18 construction projects with PS&E dates ranging from 2015 to 2020. Real estate takings for the 124 parcels include Fee, TLE, PLE, Highway Easement, Access Rights, and billboards. Schedules were expedited on a majority of the parcels with plats recorded to allow for six to seven months to acquire.

Unique components included severance damages and signage relocation for a major truck stop; billboard and related property owner agreements/conveyances of purchase; personal property relocations including irrigation, buildings, and business equipment; and acquisition of ponds adjacent to the highway.

KEY ELEMENTS

- Project management
- Appraisals
- Project Data Book
- Acquisition/negotiations
- FEE, TLEs, PLEs
- Access Rights
- Billboards
- Relocation
- Litigation assistance
- Utility coordination

CLIENT
WisDOT

REFERENCE
Jamie Brud
WisDOT Mega Projects, SW Region
608.884.1225
jamie.brud@dot.wi.gov

DATES
2013 - Ongoing

Belknap/USH 2

Banks Avenue to Hill Avenue
WisDOT ID 8680-00-21, Douglas County

CLIENT WisDOT/City of Superior

KEY ELEMENTS

- 42 appraisals
-
- Expedited schedule
- Access elimination
- Shared access issues
- On-premise signs
- Off-premise signs
- UW – Superior
- Commercial properties
- Government properties

CTH I

CTH A/H to Belgium Kohler Road, Town of Fredonia
Ozaukee County

CLIENT Ozaukee County

KEY ELEMENTS

- 28 parcels
- Project management
- Appraisals
- Acquisition/negotiations
- LPA project
- Agricultural properties
- Residential properties
- Short time frame
- Right of way acquisition

E. Division Street/STH 91

Iowa Street to E. Spring Street
WisDOT ID 5953-04-20, Iowa County

CLIENT City of Dodgeville

KEY ELEMENTS

- Project management
- Appraisals
- Acquisitions/negotiations
- Project Data Book
- LPA project
- Expedited schedule
- Commercial properties
- Residential properties
- Contamination issues

Marquette Road (STH 35)

La Pointe Street to Mooney Street
WisDOT ID 1661-05-26, Crawford County

CLIENT City of Prairie du Chien

KEY ELEMENTS

- Project management
- 38 parcels
- Appraisals
- Project Data Book
- Acquisition/negotiations
- Fee, TLE, PLE
- Nominal acquisition blitz
- Sign appraisals
- Railroad appraisal
- Parcel donation
- Access issues

Green Bay Street/STH 22

Main Street to CTH HHH, WisDOT ID 9180-23-22
Shawano County

CLIENT City of Shawano

KEY ELEMENTS

- LPA project
- Commercial properties
- Residential properties
- Project management
- Appraisals
- Acquisitions/negotiations
- Project Data Book
- Revocable occupancy permits

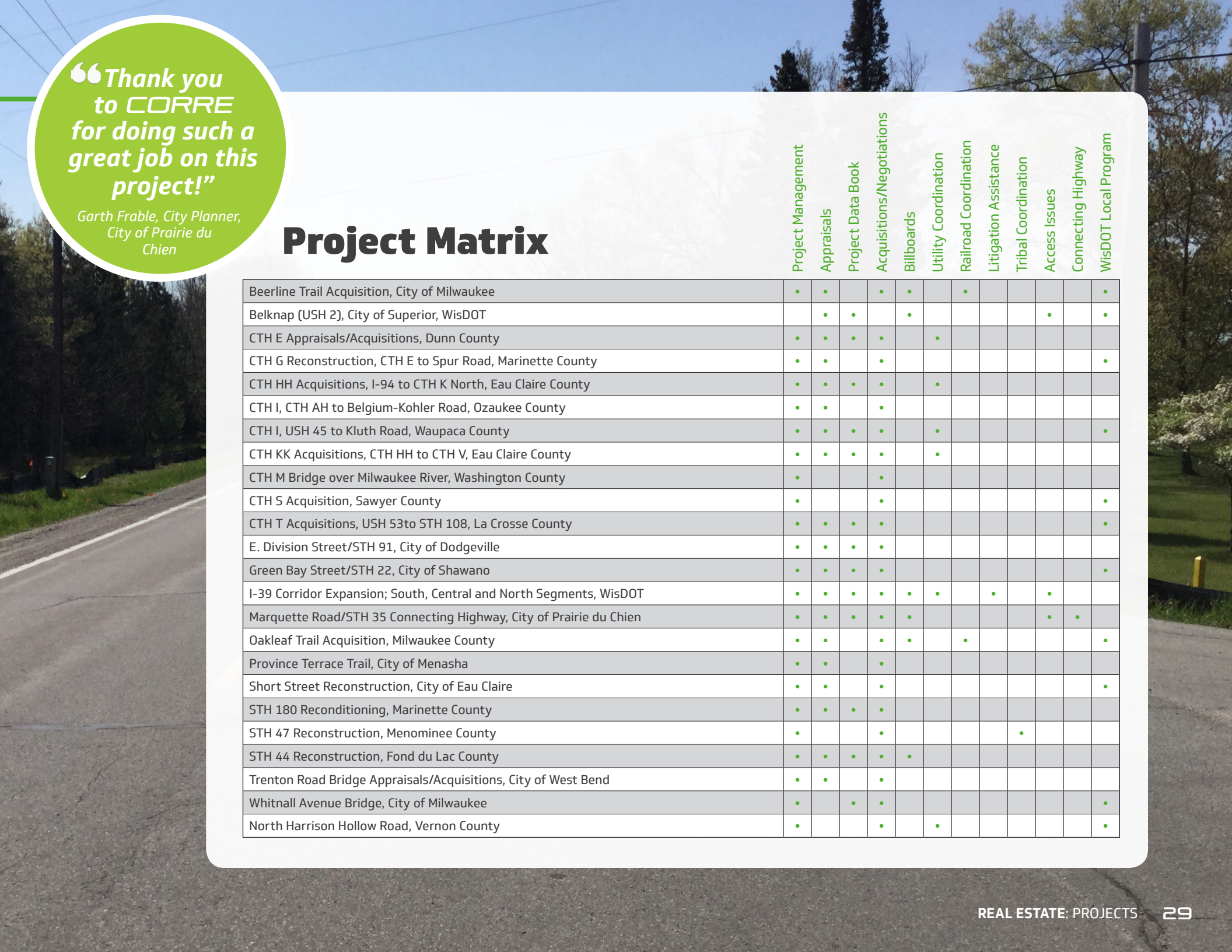
Eminent Domain Master Contract

WisDOT, Statewide

CLIENT WisDOT

KEY ELEMENTS

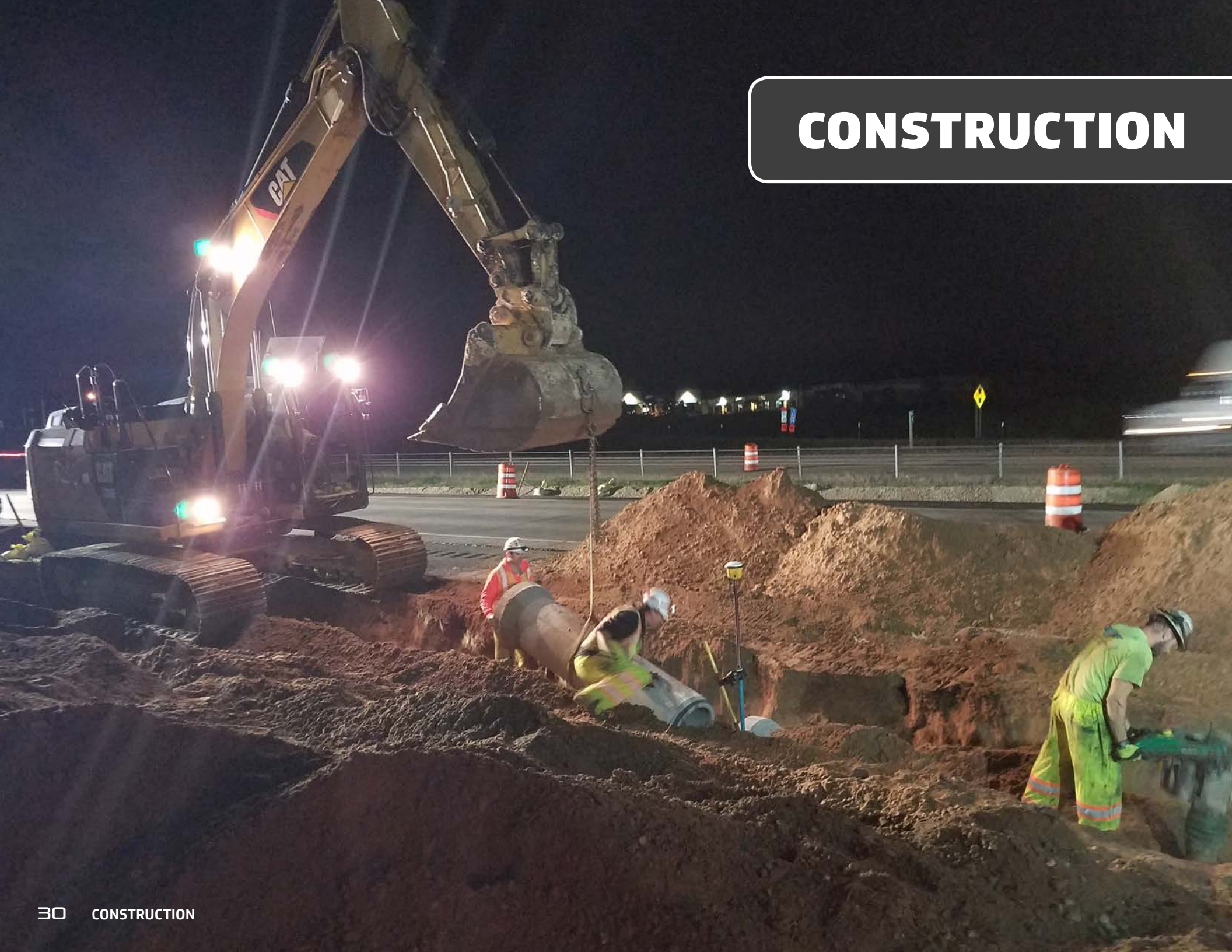
- Acquisition/negotiation
- Administrative revision recommendations
- Condemnation proceedings
- Relocation services
- Property management
- Surplus land sales
- Project Data Books
- Sales Studies
- Appraisals
- Pre-project meetings
- Depositions and court appearances



> *"Thank you to CORRE for doing such a great job on this project!"*
>
> *Garth Frable, City Planner, City of Prairie du Chien*

Project Matrix

	Project Management	Appraisals	Project Data Book	Acquisitions/Negotiations	Billboards	Utility Coordination	Railroad Coordination	Litigation Assistance	Tribal Coordination	Access Issues	Connecting Highway	WisDOT Local Program
Beerline Trail Acquisition, City of Milwaukee	•	•		•	•		•					•
Belknap (USH 2), City of Superior, WisDOT		•	•		•					•		•
CTH E Appraisals/Acquisitions, Dunn County	•	•	•	•		•						
CTH G Reconstruction, CTH E to Spur Road, Marinette County	•	•		•								•
CTH HH Acquisitions, I-94 to CTH K North, Eau Claire County	•	•	•	•		•						
CTH I, CTH AH to Belgium-Kohler Road, Ozaukee County	•	•		•								
CTH I, USH 45 to Kluth Road, Waupaca County	•	•	•	•		•						•
CTH KK Acquisitions, CTH HH to CTH V, Eau Claire County	•	•	•	•		•						
CTH M Bridge over Milwaukee River, Washington County	•			•								
CTH S Acquisition, Sawyer County	•			•								•
CTH T Acquisitions, USH 53to STH 108, La Crosse County	•	•	•	•								•
E. Division Street/STH 91, City of Dodgeville	•	•	•	•								
Green Bay Street/STH 22, City of Shawano	•	•	•	•								•
I-39 Corridor Expansion; South, Central and North Segments, WisDOT	•	•	•	•	•	•		•		•		
Marquette Road/STH 35 Connecting Highway, City of Prairie du Chien	•	•	•	•	•					•	•	
Oakleaf Trail Acquisition, Milwaukee County	•	•		•	•		•					•
Province Terrace Trail, City of Menasha	•	•		•								
Short Street Reconstruction, City of Eau Claire	•	•		•								•
STH 180 Reconditioning, Marinette County	•	•	•	•								
STH 47 Reconstruction, Menominee County	•			•					•			
STH 44 Reconstruction, Fond du Lac County	•	•	•	•	•							
Trenton Road Bridge Appraisals/Acquisitions, City of West Bend	•	•		•								
Whitnall Avenue Bridge, City of Milwaukee	•		•	•								•
North Harrison Hollow Road, Vernon County	•			•		•						•



CONSTRUCTION

Services

Construction Engineering

CORRE's construction engineering team excels at providing construction engineering and administration services for roadway, freeway, interstate, bridge, and park and trail projects. Our staff is familiar with WisDOT and local construction requirements and has expertise in compiling the necessary documentation for municipal, state, and federally-funded projects.

Our team is routinely selected to provide these services on projects of all sizes, including high-profile projects with challenging deadlines. When clients need a construction team that can make decisions, communicate effectively, and get the project done on schedule and within budget, they hire CORRE.

Areas of Expertise

Roadway reconstruction and rehabilitation
Bridge construction, rehabilitation, and painting
Freeway and interstate construction
Park and trail construction
Wetland mitigation sites
Water and sewer installation

Specialists On-Staff

- Professional engineers
- FHWA/NHI/WisDOT certified bridge inspectors
- WisDOT certified field leaders
- WisDOT certified technicians
- Certified structural coating inspectors
- Endangered species specialists
- GPS rover inspection specialists

Key Staff

Chris Nies, PE | Director of Construction Services

- 15 years of WisDOT construction and design experience
- Extensive large project experience includes complex interchange, urban, and structures
- Proficient and proactive project manager
- Excellent communicator able to make rapid tough decisions
- Pristine interstate safety record

EDUCATION
BS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): WI
HTCP: TMS, PCCTEC-I, NUCDENSITYTEC-I

Paul Burg | Construction Project Manager

- Nearly 40 years of experience on WisDOT projects and in civil engineering construction
- Experience managing contract documentation for WisDOT construction projects
- Managed various highway and bridge construction projects for WisDOT and various municipalities that included grading, paving, sanitary sewer, storm sewer, erosion control, and water main inspection, as well as testing and initial start-up of utility operations

EDUCATION
AAS: Building Construction Technology

PROFESSIONAL LICENSES/CERTIFICATIONS
HTCP: AGGTEC–I, GRADING, NUCDENSITY, PCCTEC–I, TMS, MTC-D
APNGA: RSO, USDOT HAZMAT, Portable Nuclear Gauge Operation

Joe Gruenhagen, BCI, CWI | Construction Project Manager

- 18 years of experience in construction management and inspection
- Extensive experience with WisDOT rural, urban, bridge, and interstate construction projects
- Has led bridge painting and replacement projects
- Served as Assistant Project Leader on large reconstruction projects
- Experience in building, ITS, safety enforcement operations, and electrical inspection
- Proficient in material documentation, testing, and the Legislative Audit Bureau (LAB) process

EDUCATION
BS: Construction Management

PROFESSIONAL LICENSES/CERTIFICATIONS
Certified Bridge Coatings Inspector (BCI)
Certified Welding Inspector (CWI)
HTCP: AGGTEC-I, GRADING, HMA-IPT, NUCDENSITY, PCCTEC-I, TMS
WI Sedimentation & Erosion Control Inspector

Ron Hardy, PLS | Construction Project Manager

- 40+ years of experience in design and construction services for WisDOT,and local government
- Served as Project Leader, or Assistant Project Leader, on WisDOT projects since 1993
- Experienced construction inspector and certified tester
- Expertise includes highway construction and reconstruction plan preparation; right of way plats; and utility and structure plans and specifications

EDUCATION
AD: Civil Highway Technology

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Land Surveyor (PLS): WI
HTCP: AGGTEC-I, GRADING, HMA-IPT, PCCTEC-I

> ***“...Phil and Jason from CORRE did an excellent job on their Materials Records... The organization was easy to follow and very little was needed to complete the records.”***
>
> *Deann Balog, WisDOT SE Region Materials Coordinator, Finals Materials Review*

Andrew Huntley, BCI | Construction Project Manager

- Field experience on WisDOT construction projects including experience as a Project Leader
- Inspection experience includes highway reconstruction and grading, rural intersection reconstruction/realignment, resurfacing, bridge replacement, and roundabout construction
- Proficient in WisDOT FieldManager, MITS, and FITS
- Knowledgeable of WisDOT processes and procedures, change orders, and materials requirements

EDUCATION
BS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Certified Bridge Coatings Inspector (BCI)
HTCP: MCT-D, NUCDENSITY, PCCTEC–I, TMS

Marv Laspa, PE | Construction Project Manager

- 40+ years of experience in design, construction, and maintenance of roadways and bridges
- WisDOT leadership skills
- Skilled at public involvement and agency coordination
- Proficient in WisDOT FieldManager
- Well-versed in contract documentation

EDUCATION
BS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): WI
HTCP: PCCTEC-I, TMS

Jason Lauters, PE | Construction Project Manager

- 12 years of WisDOT construction and design experience
- Served as a WisDOT Project Leader for complex projects with high public interest
- Skilled in construction management and inspection
- Expertise includes grading, milling, asphalt paving, concrete pavement, beam guard, utilities, curb and gutter, sidewalk, colored concrete, electrical, ITS, traffic control, pavement marking, staging, and multi-use paths

EDUCATION
BS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): WI
HTCP: PCCTEC-I, HMA-IPT, AGGTEC-I
Traffic Impact Analysis Preparers Certification, WisDOT

Chris Lins, PE | Construction Project Manager

- WisDOT construction project experience ranges from rural roads to interstate highways
- Served as Lead Inspector, Materials Coordinator, Assistant Project Leader, and Project Leader
- Knowledgeable in construction staking and very familiar with GPS grading and equipment
- Skilled in contract document management including ECIP review and approval, contractor pay estimates, change orders and justifications, materials documentation, and as-built plans

EDUCATION
BS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): WI
HTCP: PCCTEC-I, NUCDENSITY, GRADING, TMS

Philip Meinholz, PE | Construction Project Manager

- 11 years of construction project engineer experience at both the state and city level
- WisDOT construction engineering experience includes complex structures
- Expertise includes unique geotechnical situations
- Skilled in noise walls, sign structures, bridge rehabs, CIP, MSE, and gravity retaining walls
- Structural engineering skills include modeling and analyzing structures

EDUCATION
MS: Structural and Geotechnical Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
Professional Engineer (PE): WI
FHWA/WisDOT Certified Bridge Inspector
NASECA – WI Certified Erosion Control Inspector
HTCP: TMS, MCT-D, PCCTEC–I

What Our Clients are Saying

“...Very responsive, willing to listen, make the extra effort...”

“Thanks for projecting such a great image for WisDOT.”

“Your bridge inspection team has done a great job...”

“...showed concern...for our budget.”

“...available in a moment's notice...”

Mark Pilgrim | Construction Project Manager

- 26 years of experience on WisDOT projects
- Project Leader experience includes local road, highway, and bridge construction projects
- Extensive experience with field survey and proficient in AutoCAD drafting
- Fluent in FieldManager and materials documentation
- Completed over 1,800 bridge safety inspections for counties and municipalities
- Experienced in utility inspections

EDUCATION
AS: Civil Structural Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
NHI Certified Bridge Inspector: Safety, Fracture Critical
HTCP: AGGTEC-I, PCCTEC-I, NUCDENSITY, TMS

Brad Porter | Construction Project Manager

- 13 years of construction project engineer experience at both the state and city level
- Diverse background of construction management and inspection experience
- Assistant Project Leader experience
- Urban and rural reconstruction projects ranging from simple to high complexity
- Proficient with materials testing and documentation for all WisDOT projects

EDUCATION
AS: Civil Engineering

PROFESSIONAL LICENSES/CERTIFICATIONS
HTCP: TMS, PCCTEC–I, NUCDENSITY, GRADING, MCT-D

Sam Sonnenberg, EIT | Construction Project Manager

- 18 years of experience leading construction projects for WisDOT, Milwaukee County, and various municipalities
- Worked on a variety of construction projects including numerous major reconstructions such as the Zoo Interchange, I-894, and I-43
- Certified construction technician proficient in FieldManager and AutoCAD Civil 3D

PROFESSIONAL LICENSES/CERTIFICATIONS
Engineer-In-Training (EIT): WI
HTCP: PCCTEC-I, AGGSamp

Joel Weber | Construction Project Manager

- 30+ years of experience includes WisDOT construction administration/project management
- Strong technical skills in all aspects of construction engineering and layout
- Certified in painting inspection and inspection/maintenance of ancillary highway structures
- Expertise includes complex urban, interstate, and structure projects and painting projects
- Skilled communicator and proactive decision-maker

EDUCATION
BS: Industrial Technology

PROFESSIONAL LICENSES/CERTIFICATIONS
HTCP: AGGTEC-I, PCCTEC-I, HMA-MD, GRADING, PROFILER, NUCDENSITY
Seman Nuclear Certified

Project Spotlights

Award Winner

2014 Outstanding Highway Construction, Concrete Paving Category

CTH C/Spring Street Reconstruction

Racine County

CORRE provided construction oversight and inspection services for this award-winning CTH C/ Spring Street reconstruction project. This urban concrete pavement reconstruct project involved coordination with the Village of Mount Pleasant for sanitary sewer, the City of Racine for water main, and telecommunication companies for relocating existing lines.

A major aspect of the project was the relocation of a tributary to the Pike River. The diversion channel was successful – trout life was not affected and the new facilities held up under strong storms. The project also consisted of wetland mitigation, suspect subgrade soils, high water table, and right of way acquisition issues.

KEY ELEMENTS

- Urban reconstruction
- Concrete pavement
- Multi-jurisdictional coordination
- Utility coordination
- River channel relocation
- Wetland mitigation
- Soils investigation
- Right of way acquisition

CLIENT
SE Region Local Program

DATES
Construction: 09/2013

I-39/90 and CTH N Interchange

Dane County, WisDOT IDs 1007-10-86/11-81

CLIENT WisDOT SW Region

KEY ELEMENTS

- $24M construction cost
- Complex staged construction
- Major grading
- Rock blasting and excavation
- Nighttime widening
- Storm sewer
- Interchange reconstruction
- Three roundabouts
- Erosion control
- HMA pavement
- Mainline concrete pavement
- ITS and lighting
- HPC concrete structures
- Concrete panel walls
- Box culverts
- Permanent sheet piling wall
- Overhead sign structures
- Sign bridge

Ryan Road Interchange, I-94 N-S Freeway

Milwaukee County, WisDOT IDs 1030-20-85 and 1030-26-72

CLIENT WisDOT SE Freeways

KEY ELEMENTS

- Complex staged construction
- Additional travel lanes
- New Park and Ride
- Accelerated schedule
- Nighttime widening
- Interchange reconstruction
- Erosion control
- HMA pavement
- Mainline concrete pavement
- ITS and lighting

USH 12 Resurfacing

USH 53 to CTH AA and McCann Drive Intersection
WisDOT IDs 7080-03-74/00-74, Eau Claire County

CLIENT WisDOT

KEY ELEMENTS

- $3.4M construction cost
- Concrete and asphalt pavement removal
- Turn lane extensions
- Intersection improvement
- Staged construction
- Pedestrian access
- Concrete curb and gutter
- Staged traffic control
- Weekly progress meetings

McKinley Avenue Storm Sewer Relocation

8th Street to 3rd Street, WisDOT ID 2126-00-70, Milwaukee County

CLIENT WisDOT

KEY ELEMENTS

- $4M construction cost
- Concrete pavement
- Water main relocation
- Storm sewer relocation
- Sidewalk replacement
- Staged construction
- Utility and stakeholder coordination
- Pedestrian access
- Street lighting and traffic signals

Bugline Trail Phases 1-4

WisDOT IDs 2984-34-71/72, Waukesha County

CLIENT Waukesha County

KEY ELEMENTS

- Staged trail construction
- Retaining walls
- Landscape architecture
- ADA upgrades
- Signage/wayfinding
- Extensive wetlands
- Minimization of tree removal
- Over-excavation and HazMat
- Public outreach
- WisDOT and Local Non-Traditional Project
- Construction oversight

Safe Routes to School Pedestrian Improvements

WisDOT ID 5852-00-74, Dane County

CLIENT Village of Prairie du Sac

KEY ELEMENTS

- Asphaltic shared-use trail construction
- Intersection improvements to meet ADA requirements
- RRFB installation
- WisDOT Non-Traditional Project
- Construction oversight
- Extensive subcontractor coordination
- Significant in-field design modifications

"Nice job on the early completion. Great to see us meet our commitments on time and on budget on such a high-profile project."

Mark Gottlieb, Secretary, WisDOT

Beltline/Verona Road Interchange

Whitney Way to Seminole Highway, WisDOT ID 1206-07-84, Dane County

This reconstruction project of the Beltline involved expansion to six lanes in each direction, increased bridge clearances, and traffic flow improvements by constructing a single point urban interchange (SPUI). The new bridges over the Verona Road SPUI are 66-inch steel plate girders each spanning 190 feet. Night and weekend detours and lane closures were setup to allow for bridge construction. Ramp realignments and roadway profile changes posed significant challenges for traffic staging. An aggressive timeline had crews working day and night. This project was Phase 3 of the multi-year Mega Project.

KEY ELEMENTS

- Bridge construction
- Pedestrian overpass
- Pedestrian tunnel
- Retaining walls
- Noise walls
- Traffic staging
- Mosaic tile installation
- 3,300 perennial plantings
- Aggressive schedule

CLIENT

WisDOT

REFERENCE

Christopher Frederick, PE
WisDOT Project Manager
608.884.7130
christopher.frederick@dot.wi.gov

DATES

Fall 2014 – Spring 2018

CTH CW Reconstruction and Bridge Replacement

WisDOT IDs 2949-00-70 and 3947-05-71, Waukesha County

CORRE provided construction oversight and inspection services for the WisDOT Local Program reconstruction of CTH CW and B-67-346 bridge replacement. The new single span bridge was relocated from the existing bridge to match the realignment of CTH CW to improve sight distances and overall geometrics. CORRE oversaw the marsh excavation in conjunction with a WisDNR liaison throughout the project as the existing wetlands were considered high quality by WisDNR.

Given the environmentally sensitive corridor, grading work, inspection, and coordination was a key part of the re-aligned CTH CW project. Other roadside upgrades installed during the project include beam guard, grooved pavement marking, and permanent signing.

KEY ELEMENTS

- Realignment and reconstruction
- Single span bridge replacement
- Marsh excavation
- Environmentally sensitive grading
- Concrete approach slabs
- Control of materials
- Erosion control
- WisDNR coordination

CLIENT
WisDOT

DATES/COST
Construction 2015/$1.1M

Recent Project Listing

Interstates and Interchanges

I-39/90, Janesville to Madison, Dane County
I-39/CTH N Interchange, Dane County
I-39, Beloit to Madison, Dane and Rock Counties
I-39 Bridge Rehabilitation, Marquette County
I-39 Bridge Rehabilitation, Waushara County
I-39 Bridge Rehabilitation, Marquette County
I-39 Epoxy Pavement Marking, Various Counties
I-39 NB Expansion, Dane County
I-94/CTH T Bridge, Hudson to Baldwin, St. Croix County
I-94, Hudson to Baldwin, STH 35 N. to USH 12, St. Croix County
I-94, Hudson to Baldwin, Highland Avenue Bridge, St. Croix County
I-94/Ryan Road Interchange, Milwaukee County
SE Freeways Finals Review, Milwaukee County
Zoo Interchange Dual-Lane On-Ramps, Milwaukee County
Zoo Interchange, Phase II Structure Inspection, Milwaukee County

Structures

Blotz Road over Dodge Branch, Iowa County
Bridge Street Bridge, Chippewa County
CTH F over Tamarack Creek, Trempealeau County
CTH SS and Town Road Bridges, Columbia County
CTH Y Bridge Replacement, Oconto County
Fritz Road Bridge over Flynn Creek, Dane County
Gant Road over Yellowstone River, Lafayette County
Hoan Bridge Finals Review, Milwaukee County
Milwaukee Street Bridge over I-39, Dane County
LeQue Lane/Nordie Lane over N. Fork Beaver Creek, Trempealeau County
Meadow Dam Road over Deer Creek, Rusk County
Region-Wide Culvert Replacement, STH 161/32/47, Various Counties
Region-Wide Deck Sealing, Various Counties, NE Region
Region-Wide Deck Sealing, Various Counties, NW Region
Rock River Bridges, STH 26 and USH 18, Jefferson County
STH 29 over Porky Creek and Big Eau Pleine, Marathon County
STH 93 over Adams Creek, Trempealeau County
STH 98, Yellow River and Rock Creek Bridges, Clark County
Stoney Hill Road and CTH S Bridges, Portage County
S. Galena Road over Branch River, Lafayette County
Terrace Avenue Structures, USH 12, Dane County
Townline Road over Kenyon Creek, Sawyer County

Roadways and Highways

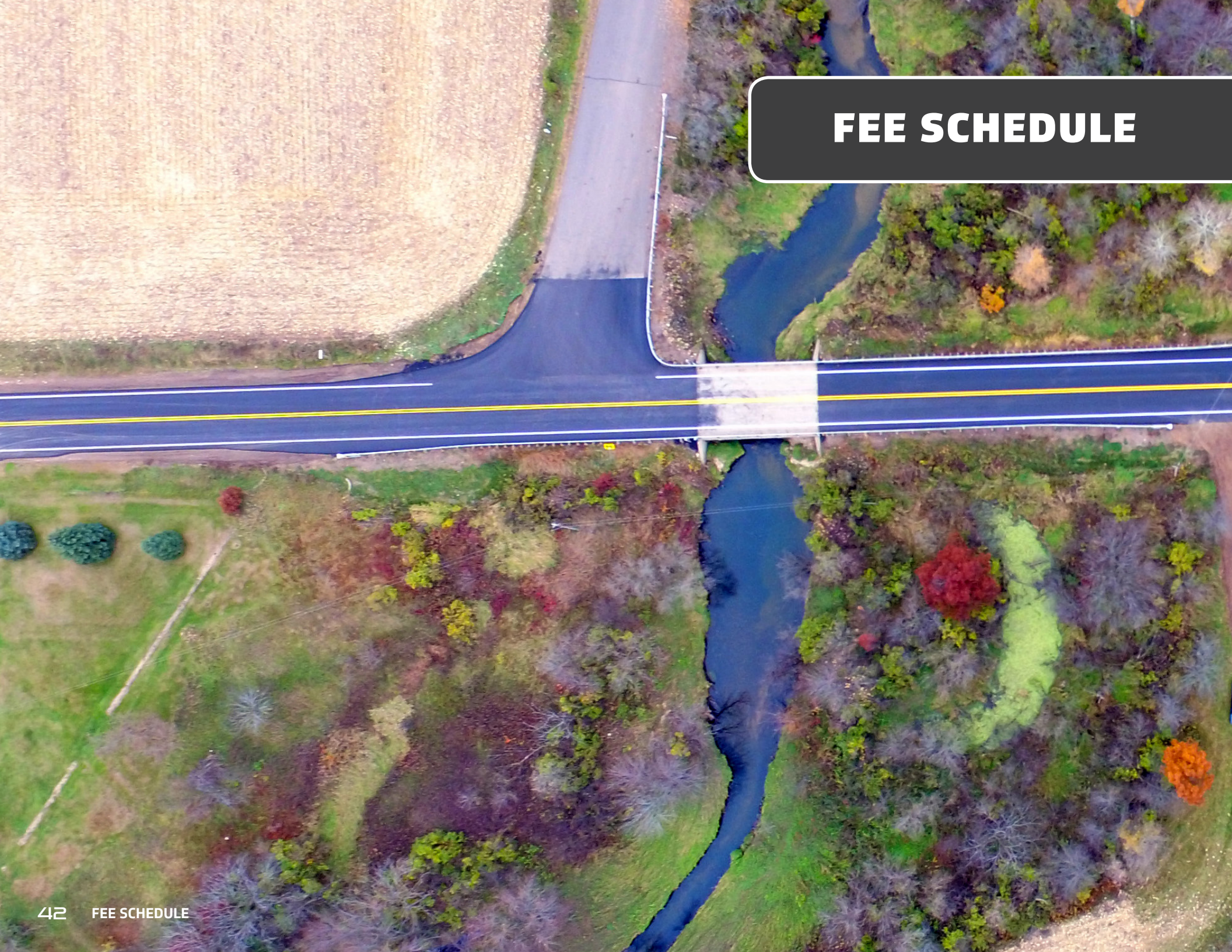
CTH A, Osseo to Black River Falls, STH 95 to Charcoal Road, Jackson County
CTH C, Airline Road to Sunnyslope Drive, Waukesha County
CTH CW, Waukesha County
CTH F (Redford Boulevard), Waukesha County
CTH T, Fond du Lac Bypass, Fond du Lac County
CTH V and CTH W, Ozaukee County
CTH YY, Waukesha County
FoxConn Development Roads - Braun Road, Racine County
Main Street Resurfacing, City of Janesville, Rock County
Meadowbrook Road (West Waukesha Bypass), Waukesha County
STH 29, Clark County
STH 26, CTH J to STH 60 East, Dodge County
STH 29, Wittenberg to Wausau, Marathon County
STH 44, Ripon to Oshkosh, Fond du Lac County
STH 64/CTH F West Junction Intersection, Chippewa County
Townline Road over Kenyon Creek, Sawyer County
USH 12/Fish Hatchery Road Interchange, Dane County
USH 12/STH 54, Water Street/Main Street, Jackson County
USH 12/STH 54, Water Street/Main Street, Jackson County
USH 12, Eau Claire to Fairchild, Eau Claire County
USH 12 (W. Madison Beltline), Terrace Avenue to Mineral Point Road, Dane County
USH 18 (Beltline/Verona Road), Dane County
USH 18, Prairie du Chien Bypass, Crawford County
USH 51, Merrill to Minocqua, Lincoln County
USH 51, Merrill to Tomahawk, N. Star Road Intersection, Lincoln County

Utilities

ATC Controller and Communications Upgrade Grant #1, Milwaukee County
Northview Road Phase 1 Street and Utility Improvements, Waukesha County
W. McKinley Avenue Storm Sewer Relocation, Milwaukee County

Non-Traditional

Bugline Trail Improvements Phases 1-4, Waukesha County
Lutz Park Trail and Riverbank Stabilization, City of Appleton, Outagamie County
Safe Routes to School (SRTS) Pedestrian Improvements, Sauk County



FEE SCHEDULE

2019-2020
Fee Schedule

Category/Classification	Rate/Hour
Office Staff	
Principal-In-Charge	$140
Project Manager (Structural)	$140
Project Manager (Roadway)	$120
Senior Engineer	$105
Stormwater Engineer	$100
Design Engineer	$90
Staff Engineer	$65
CAD Specialist	$80
Environmental Specialist	$90
Historian	$90
Surveyor	$90
Administrative Professional	$60
Real Estate	
Appraiser	$110
Lead Acquisition Agent	$105
Acquisition Agent	$65
Relocation Agent	$115
Plat Specialist	$100
Field Staff	
Senior Construction Manager	$90
Lead Inspector	$75
Inspector	$65
Survey Crew Chief	$90
Assistant Surveyor	$65

2019-2020 Bridge Inspection Rate: $215/bridge
(assuming 38 bridges in 2019/2020 combined)

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 8/15/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Ansay & Associates, LLC PO Box 45470 Madison WI 53744-5470	**CONTACT NAME:** Susan Simoneau **PHONE (A/C, No, Ext):** 608-828-0235 **FAX (A/C, No):** **E-MAIL ADDRESS:** sue.simoneau@ansay.com
	INSURER(S) AFFORDING COVERAGE / **NAIC #**
	INSURER A : Secura Insurance A Mutual Company — 22543
INSURED CORREIN-01 CORRE, Inc. Attn: Troy Gagner 6510 Grand Teton Plaza;Ste 204 & 314 Madison WI 53719	**INSURER B :** Admiral Insurance Company — 24856 **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 1949952309 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	**GENERAL LIABILITY** [X] COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR [X] Contractual Liab [ ] GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [ ] LOC			BP3226364	8/14/2018	8/14/2019	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG 	$ 2,000,000 $ 1,000,000 $ 5,000 $ 1,000,000 $ 2,000,000 $ 1,000,000 $
A	**AUTOMOBILE LIABILITY** [X] ANY AUTO [ ] ALL OWNED AUTOS [ ] SCHEDULED AUTOS [X] HIRED AUTOS [X] NON-OWNED AUTOS [ ]			A3226365	8/14/2018	8/14/2019	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) 	$ 1,000,000 $ $ $ $
A	[X] **UMBRELLA LIAB** [X] OCCUR [ ] **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [X] RETENTION $ 10,000			3226369	8/14/2018	8/14/2019	EACH OCCURRENCE AGGREGATE 	$ 5,000,000 $ 5,000,000 $
A	**WORKERS COMPENSATION AND EMPLOYERS' LIABILITY** Y / N ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [N] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A		3226366	8/14/2018	8/14/2019	[X] WC STATU-TORY LIMITS [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 1,000,000 $ 1,000,000 $ 1,000,000
B	Professional Liability Claims made			EO00002640604	8/14/2018	8/14/2019	Each claim Aggregate Deductible	2,000,000 2,000,000 15,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER

CORRE, Inc.

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Jordan Groos

ANSWERS. SOLUTIONS. RESULTS. CORRE

CORRE, INC.

General Terms and Conditions for Professional Services

I. Scope of Services

A. CORRE, Inc. (CORRE) will begin services upon written authorization to proceed. Receipt of a signed contract (the "Contract"), which shall be incorporated herein by reference, is considered written authorization. If the terms or conditions of this agreement conflict with those in the Contract or any other agreement, this agreement shall control.

B. Click or tap here to enter text. (the “Client”) agrees to clarify and define project requirements and to provide such legal, accounting and insurance counseling services as may be required for the project.

II. Invoicing and Payment

A. CORRE will bill the Client monthly, according to the payment method set forth in the Contract, with net payment due within thirty (30) days of the date of the invoice. The quoted fee will control unless amended.

B. Past due balances shall be subject to an interest charge of 1.5% per month.

C. CORRE may, after giving seven (7) days' written notice, suspend service under any agreement until the Client has paid in full all amounts due for services rendered and expenses incurred, including the interest charge on past due invoices. Quoted fees or rates do not include any applicable state and local sales or use taxes, gross receipts taxes, or value-added taxes. Any taxes shall be the responsibility of the Client to pay.

III. Changes to Project Scope and Fees

A. This agreement, upon execution by both parties, may be amended only by written instrument signed by both parties.

B. This agreement cannot be changed or terminated orally. No waiver of compliance with any provision or condition hereof shall be effective unless agreed to in writing duly executed by the waiving party.

C. The quoted fees and scope of services constitute the best estimate of the fees and tasks required to perform the services as defined. For those projects involving conceptual or process development services, activities often cannot be fully defined during initial planning. As the project progresses, facts uncovered may reveal a change in direction, which may alter the scope. CORRE will inform the Client in writing of such situations so that changes in this agreement may be made as required.

D. If the Client requests significant modifications or changes in the scope of the project, the time of performance of CORRE's services and the fees shall be adjusted before CORRE undertakes the additional work.

IV. Applicable Law

A. This agreement shall be governed by the laws of the State of Wisconsin, and venue for any action concerning this Agreement shall be in Dane County, Wisconsin. The parties shall at all times comply with all federal, state, and local laws, ordinances, and regulations in effect during the period of this agreement.

V. Insurance

A. CORRE will maintain insurance coverage for worker's compensation, general liability, automobile liability, aviation liability, and professional liability. CORRE will provide information as to specific limits upon written request.

B. If the Client requires coverage or limits in addition to those in effect as of the date of the agreement, premiums for additional insurance shall be paid by the Client.

VI. Indemnification for Delays

A. The Client shall be liable for and shall indemnify, hold harmless, and defend CORRE for all costs and damages incurred by CORRE for delays caused in whole or in part by the Client's interference with CORRE's ability to provide services, including, but not limited to:

B. Client's failure to provide specified facilities or information; or

C. Client's actions or inactions causing, in whole or in part, CORRE's services to be extended for more than sixty (60) days.

D. If delays are caused by unpredictable occurrences outside Client's control, including but not limited to terrorism, fires, floods, riots, strikes, unavailability of labor or materials, delays or defaults by suppliers of materials or services, process shutdowns, acts of God or the public enemy, or acts or regulations of any governmental agency, then the costs for services and schedule commitments shall be equitably adjusted before CORRE resumes its services.

VII. Indemnification for Costs

A. CORRE intends to serve as the Client's professional representative for those services as defined in this agreement and to provide advice and consultation to the Client as a professional.

B. Any opinions of probable project costs, reviews and observations, and other decisions made by CORRE for the Client are rendered on the basis of experience and qualifications and represent the professional judgment of CORRE. However, CORRE cannot and does not guarantee that proposals, bids, or actual project or construction costs will not vary from the opinion of probable cost prepared by it.

C. Client agrees to indemnify, hold harmless, and defend CORRE for any claim arising out of or related in any way to project or construction costs even if such claim arises out of and/or has been caused in whole or in part by negligence on the part of CORRE.

VIII. Liability Limitations

A. The liability of CORRE to the Client for any indemnity commitments or for any damages arising in any way out of performance of this agreement is limited to a period of twelve (12) months from the date of the last invoice from CORRE to the Client, whether paid or not paid by the Client.

B. Such liability is limited to the amount of the fees paid by the Client to CORRE for performance under this agreement.

C. CORRE shall not be liable for any loss due to unpredictable occurrences outside CORRE's control, including but not limited to terrorism, fires, floods, riots, strikes, unavailability of labor or materials, delays or defaults by suppliers of materials or services, process shutdowns, acts of God or the public enemy, or acts or regulations of any governmental agency.

D. CORRE is not liable, in contract or tort or otherwise, for any special, indirect, consequential, or liquidated damages including specifically, but without limitation, loss of profit or revenue, loss of capital, delay damages, loss of goodwill, claim of third parties, or similar damages.

IX. Liability for Other Materials

A. CORRE and the Client agree that the ultimate liability for mold or mildew regardless of its source, and for the actual, alleged, or threatened discharge, dispersal, release, or escape of pollutants, mycotoxins, spores, smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gases, waste materials or other irritants, contaminants, or pollutants into or upon land, buildings, the atmosphere, or a body of water shall remain with Client; and the responsibility and/or liability for any of the foregoing and for the ownership and maintenance of any toxic, hazardous, or asbestos materials relating to the project shall remain with the Client, whether paid or not paid by the Client.

B. CORRE and the Client acknowledge that CORRE's professional liability and general liability policies do not apply to claims arising out of the foregoing. Therefore, the Client agrees not to bring a claim against CORRE relating to the uninsured liability referenced above. Furthermore, the Client agrees to indemnify, defend, and hold harmless CORRE for all claims against CORRE arising out of or related in any way to the above stated liability and/or responsibility of the Client, whether or not such claims arise out of and/or have been caused in whole or in part by negligence on the part of CORRE.

X. Disclaimers

A. CORRE will provide services in accordance with ordinary generally accepted professional practices. CORRE disclaims all warranties and guarantees, express or implied.

B. The parties agree that this is a contract for professional services and is not subject to any Uniform Commercial Code.

C. Similarly, CORRE will not accept those terms and conditions offered by the Client in its purchase order, requisition, notice of authorization to proceed, or any other contractual document except as set forth herein or expressly agreed to in writing. Written acknowledgment of receipt or the actual performance of services subsequent to receipt of such other contractual document is specifically deemed not to constitute acceptance of any terms or conditions contrary to those set forth herein.

XI. Confidential Information

A. "Confidential Information" refers to any data or information relating to CORRE, whether business or personal, which could reasonably be considered private or proprietary and that is not generally known and where the release of that Confidential Information could reasonably be expected to cause harm to CORRE. Confidential Information includes, but is not limited to, ideas, specifications, techniques, models, data, programs, documentation, processes, know-how, and financial and technical information.

B. Client shall not, during the term of this agreement and after the termination of this agreement for a period of two (2) years, disclose any Confidential Information to any person or

entity, or use any Confidential Information for the benefit of Client or any other person or entity, except with the prior written consent of CORRE or as required by law.

XII. Termination

A. Termination of this agreement by the Client or CORRE shall be effective upon seven (7) days' written notice to the other party. The written notice shall include the reasons and details for termination.

B. CORRE will prepare a final invoice showing all charges incurred through the date of termination; payment is due as stated in paragraph 2.

C. If the Client breaches the Contract or any other agreements entered into between CORRE and the Client, or if the Client fails to comply with terms, conditions, or specifications of the Contract or other agreements, CORRE may, upon seven (7) days' written notice, suspend services without further obligation or liability to the Client unless, within such seven (7) day period, the Client remedies such breach to the reasonable satisfaction of CORRE.

XIII. Severability

A. In the event that any provision of this Agreement is held to be invalid or unenforceable in whole or in part, all other provisions will nevertheless continue to be valid and enforceable with the invalid or unenforceable parts severed from the remainder of this Agreement.

XIV. Files and Data

A. Data and image files, both electronic and hard copy (hereinafter "files") are part of CORRE's instruments of service and shall not be used for any purpose other than this project. Any reuse of files or services pertaining to this project or any other project shall be at Client's sole risk and without liability or legal exposure to CORRE.

B. CORRE makes no representation as to compatibility of electronic files with Client's hardware or software. Differences may exist between these electronic files and corresponding hard-copy documents. CORRE makes no representation regarding the accuracy or completeness of the electronic files provided. In the event that a conflict arises between the signed or sealed hard-copy documents prepared by CORRE and the electronic files, the signed or sealed hard-copy documents shall govern.

C. Because information presented on the electronic files can be modified, unintentionally or otherwise, CORRE reserves the right to remove all indicia of ownership and/or involvement from each electronic display.

D. Under no circumstances shall delivery of the electronic files for reuse be deemed a sale by CORRE, and CORRE makes no warranties, either express or implied, of merchantability or fitness for any particular purpose. In no event shall CORRE be liable for any loss of profit, delayed damages, or any consequential damages as a result of reuse or changes to files or any data therein. To the fullest extent permitted by law, Client shall indemnify, hold harmless, and defend CORRE, its employees, and its agents harmless against all damages, liability, or costs, including reasonable attorneys' fees, arising out of or resulting from Client's reuse of files or data.

XV. Miscellaneous Provisions

A. This agreement shall not be construed as imposing upon or providing to CORRE the responsibility or authority to direct or supervise construction means, methods, techniques,

sequence, or procedures of construction selected by the contractors or subcontractors or the safety precautions and programs incident to the work of the contractors or subcontractors.

B. This agreement contains the entire understanding between the parties on the subject matter hereof and no representations, inducements, promises or agreements not embodied herein (unless agreed in writing duly executed) shall be of any force or effect, and this agreement supersedes any other prior understanding entered into between the parties on the subject matter hereof.

C. This agreement does not create any benefits for any third party. The waiver by either party of a breach, default, delay or omission of any of the provisions of this Agreement by the other party will not be construed as a waiver of any subsequent breach of the same or other provisions.

D. Headings are inserted for the convenience of the parties only and are not to be considered when interpreting this Agreement.



Statement of Qualifications
On-Call Engineering Services

June 13, 2019

Submitted by:

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS

Submitted to:

GREMMER
& ASSOCIATES, INC.
CONSULTING ENGINEERS

93 S. Pioneer Road
Suite 300
Fond du Lac, WI 54935
Phone (920) 924-5720
Fax (920) 924-5725

June 13, 2019

Green Lake County Highway Department
570 South Street
Green Lake, WI 54941

Attention: Barry Mashuda
Highway Commissioner

Subject: Statement of Qualifications
On-Call Engineering Services

Dear Mr. Mashuda:

Thank you for the opportunity to present our Statement of Qualifications for on-call engineering services to the Green Lake County Highway Department.

Gremmer & Associates has Wisconsin offices located in Stevens Point and Fond du Lac. Both offices provide full service survey, design, and construction inspection services for a wide range of transportation, municipal and private development projects. We are celebrating 42 years of providing quality engineering and excellent service to our clients. Our three managers, Dave Glodowski, Tom Lanser, and Scott Hintz are owners of the firm, each with over 29 years of WisDOT and municipal experience.

The majority of our engineering work is transportation related, with expertise in urban and rural highway design and short-span bridge design. We excel in producing quality plans and construction documents, and we pride ourselves in being a firm specializing in the "nuts and bolts" of transportation and municipal engineering, stormwater management, and private site development design.

Gremmer & Associates' employees live by a flexible, "whatever it takes" attitude. Both of our offices are sufficiently staffed to provide full-service transportation designs, with the ability to share personnel between offices to accommodate changes in project schedules if needed.

We also take great satisfaction in being a highly-efficient firm, and for many years our low overhead rate has been below the industry average. Ninety-five percent of our staff works directly on projects. We do not spend a large amount of money on marketing, elaborate offices, or frills. We feel our quality designs and personal relationships with our clients speak for themselves.

We are excited about the opportunity to provide on-call engineering services to Green Lake County. We do quite a bit of work for neighboring/close by counties of Fond du Lac, Dodge, and Washington, so we urge you to contact Tom Janke, Pete Thompson, and Scott Schmidt for a first-hand account of our quality work and excellent service. If you have any questions or need additional information, please call me at 920-924-5720.

Sincerely,

Thomas Lanser, PE
President
Gremmer & Associates, Inc.

COMPANY HISTORY

Gremmer & Associates was founded in 1977 by Tim Gremmer, the former Stevens Point City Engineer. Initially, we provided land surveying, recreational and site development services. As the firm grew we expanded into the design and construction inspection of urban and rural roadways, bridges, sanitary sewer and water main, and storm water management. In 1995 we added a Fond du Lac office to expand our services to clients in southeast Wisconsin. A multi-party ownership was created in 2001, which ensured continued success from the vested interest of the partners. Currently we have a total staff of 30, including 15 engineers, 2 Professional Land Surveyors, and 10 engineering specialists/technicians. About 90 percent of our clients are governmental, and include the Wisconsin Department of Transportation (WisDOT), and many counties and local municipalities throughout Wisconsin.

COMPANY EXPERIENCE

Gremmer & Associate's expertise is in design and construction management of urban and rural highways and bridges, municipal utilities, stormwater management, environmental permitting, and civil/site design for private developments. Approximately 90 percent of our business consists of transportation and municipal projects for municipalities, counties and WisDOT. Our specialized technical expertise, coupled with our strong client relations and project management skills, results in a high quality product. Gremmer & Associates has developed a long-term track record of providing highly qualified staff with excellent service to WisDOT, Counties, Municipalities, and Towns statewide. Our company has very little turnover, which results in the same qualified staff working on projects year after year. This is a significant component of why Gremmer designed projects have historically ended up as successful projects.

Gremmer has designed over 70 rural highway/roadway projects, 55 urban highway/street projects, and 50 bridge replacement projects over the last 20 years, all of which included various degrees of surveying, public involvement, environmental and agency coordination/permitting, utility coordination, right-of-way plat preparation, drainage and storm sewer design, and roadway and bridge design and modeling.

Quality Assurance / Quality Control (QA/QC)

Gremmer & Associates doesn't have a dedicated marketer on staff; therefore it is imperative that we deliver a quality product on every project. This is the core component on how we get new work…provide a quality product with excellent service to the client, which generates repeat work. Our QA/QC program is one of the main reasons we consistently provide a quality product, and is described further as follows:

Quality Assurance (QA)

Quality Assurance relates to the processes in place to ensure quality on a project (focused on the process in place to create the deliverable). Gremmer's QA plan consists of a series of checklists and procedures on the process to design a project and is based on a thorough knowledge of the FDM, the WisDOT design process, and many years experience in designing and inspecting transportation projects.

Quality Assurance is also a project management tool. It's used to set and monitor realistic schedules and minimize rework in design. An example of this is a project management spreadsheet that we set up at the beginning of each project. This spreadsheet includes the contract design milestones, as well as all of the agency approvals that are needed throughout the design of the project. This spreadsheet includes columns for anticipated submittals, as well as completed/approved dates. This spreadsheet is reviewed and updated continuously throughout the design of the project.

Quality Control (QC)

Quality Control is a verification process ensuring that deliverables are correct (focused on the deliverable itself). Gremmer's QC plan consists of peer reviews at 30%, 60%, and 90% milestones. The peer reviews are conducted by separate design and construction project managers, with an eye on trying to identify potential problems and correct them.

The constructability reviews are focused on plan details and specification language, from both a contractor and inspector's viewpoint. The peer design review is focused more on the design standards that need to be followed, as well as plan and specification language from a bidding standpoint. Ultimately, these in-depth checks associated with our QA/QC program ensure a quality project that is both "biddable" and constructible". By bringing in our staff with the most "real world" experience, we can be sure that things like rebar detailing, erosion control, traffic control/staging, completion dates, pavement marking, construction details, and special provisions work as well in the field as they do on the computer – before construction begins.

Cost Controls

Gremmer & Associates reputation has been built on providing a quality project on time, on budget and with a well-researched construction estimate. Our philosophy for monitoring the project budget for construction is as follows:

- Check initial programmed project cost at the beginning of the project by estimating the 10 most influential bid items, and then factor in a "project incidentals" percentage. This is an initial "rough" check to make sure that the programmed budget cost is reasonable.

Take your time and complete a thorough initial preliminary estimate at the 30% phase of plan development. The extra time taken to get a good preliminary estimate pays off in the future when there are less "surprises" at the end. Revisit estimates at 60% and 90% milestones for the plans, and whenever there is a substantial change in the design/plans.

In essence, this ties together with our philosophy for project management; keep the client informed of potential cost ramifications of different alternatives that are presented during the design decision-making process. This allows the client to make informed decisions on the different alternatives, while keeping the entire project budget in mind.

Testimonials

Our specialized technical expertise, coupled with our strong client relations and project management skills, results in a high quality product. The following are some examples of correspondence we have received from our clients which demonstrate our excellent combination of service and quality work we provide to our clients.

Mayville Savings Bank

200 SOUTH MAIN STREET
MAYVILLE, WISCONSIN 53050
PHONE: (920) 387-2310
FAX: (920) 387-5282

October 30, 2018

MR. TOM LANSER

C/O GREMMER & ASSOCIATES, INC.

93 S. PIONEER RD.

FOND DU LAC, WI 54935

Re: Mayville, WI & Ryan Arndt

Dear Mr. Lanser;

My research tells me that you are the President/Manager of Gremmer & Associations, Inc. If this is not true, please do me the favor of forwarding this letter to the senior most person of your firm.

I am writing today regarding Mr. Ryan Arndt who was your project engineer for the Hwy 28/67 road construction project in Mayville, Wisconsin this year.

On behalf of my organization and its board of directors, I wanted to say thank you for having such a qualified and competent project engineer in your employ. Ryan was a great communicator for area businesses and at no time throughout the project did I ever feel that I could not reach out to him with questions or concerns. Sometimes I would send him an e-mail and within 10 minutes he'd be walking through my front door to see me about the answers.

No one likes their City torn up for half a year. No one likes listening to customer complaints for weeks on end and yet, with Ryan's ongoing commitment to communication; we were able to stay ahead of what was happening and provide our employees with the necessary information to address customer concerns. I just wanted to let you know from an outsider's perspective what impact Ryan makes on your company's image.

Sincerely,

Richard A Larson Jr.

President/CEO

Mayville Savings Bank

rick@mayvillesavings.com

920-387-2310

Mayville Savings Bank

200 SOUTH MAIN STREET
MAYVILLE, WISCONSIN 53050
PHONE: (920) 387-2310
FAX: (920) 387-5282

October 31, 2018

MR. RYAN ARNDT

C/O GREMMMER & ASSOCIATES, INC.

93 S. PIONEER RD. STE #300

FOND DU LAC, WI 54935

Re: Mayville WI Hwy project

Dear Ryan:

I wanted to send a quick note of "thanks" on the great job you and your crew did this past summer/fall regarding the Mayville road construction project. I can only speak for my employees and business, but I thought your coordination was top notch.

At all times we felt that we knew in advance what would happen next and what impact it would have on our business, employees and customers. That allowed us to plan accordingly and communicate as much as we could in advance to everyone. Though Mother Nature attempted to have a "say" in the project, your crew did a great job bringing it to a timely conclusion.

I final note of thanks to you as the overall team leader. Communicating with you was incredibly easy and I always felt that you had our interest at heart. Thanks again on a job well done.

Sincerely,

Richard A. Larson, Jr.

President/CEO

Mayville Savings Bank

From:	Hall, Jeremy - DOT
To:	Oettinger, James - DOT; Thomas Lanser
Cc:	Dave Glodowski; Scott Hintz; Ryan Arndt
Subject:	RE: Ryan Arndt letter re: STH 28/67 project
Date:	Thursday, November 01, 2018 2:14:26 PM

Thanks for sharing, it is nice to hear something positive like that from the public. I know from my point of view, Ryan has always done an incredible job on all our projects through excellent communication with the public and the contractor.

Jeremy

From: Oettinger, James - DOT
Sent: Thursday, November 01, 2018 1:52 PM
To: Lanser, Thomas <t.lanser@gremmerassociates.com>; Hall, Jeremy - DOT <Jeremy.Hall@dot.wi.gov>
Cc: Dave Glodowski <D.Glodowski@gremmerassociates.com>; Hintz, Scott <s.hintz@gremmerassociates.com>; Ryan Arndt <r.arndt@gremmerassociates.com>
Subject: RE: Ryan Arndt letter re: STH 28/67 project

Very nice letter. Thanks for sharing it with us. Ryan does excellent work and represents DOT well on our projects…Jim

---

From: Thomas Lanser [mailto:t.lanser@gremmerassociates.com]
Sent: Thursday, November 01, 2018 1:46 PM
To: Hall, Jeremy - DOT <Jeremy.Hall@dot.wi.gov>
Cc: Dave Glodowski <D.Glodowski@gremmerassociates.com>; Hintz, Scott <s.hintz@gremmerassociates.com>; Ryan Arndt <r.arndt@gremmerassociates.com>; Oettinger, James - DOT <James.Oettinger@dot.wi.gov>
Subject: Ryan Arndt letter re: STH 28/67 project

Hi Jeremy,

I received this letter in the mail today about Ryan Arndt and the STH 28/67 project…thought you would like to see it as well.

Tom

Thomas Lanser, PE
Gremmer & Associates, Inc.
93 South Pioneer Road, Suite 300
Fond du Lac, WI 54935
(920) 924-5720
(920) 924-5725 (fax)
t.lanser@gremmerassociates.com

Evaluation Type: To: 11/08/2018
Final Evaluation

Evaluation Details

Overall Evaluation Rating: 4.0

Reviewer - Consultant: Scott Hintz

Evaluator - WISDOT: James Oettinger

Comments and Summation

Describe strengths / weaknesses and provide suggestions for improvement.

Overall Evaluator Comments: Project leader was reliable, knowledgeable and thorough. The contractor struggled to meet interim schedule dates during the entire project, so public relations to keep folks informed of progress was very challenging - Ryan did a great job on handling this. Despite the contractor's struggles, due to Ryan's determination a quality project was completed for the folks of Waterloo. Thanks Ryan.

Overall Reviewer Comments:

Would you have reservation selecting this firm again for this type of project? No

Question & Answers

Did the consultant minimize contractor overruns and/or change orders when possible? **Satisfactory**

Was the consultant creative in controlling their own costs and developing effeciencies? **Satisfactory**

Did project result in the expenditure of reasonable time as defined or scoped? **Satisfactory**

Evaluator Comments: Firm is always cost conscious. Gives taxpayers very reasonable hours.

Reviewer Comments:

6) Timeliness

Rating: 4.0

Question & Answers

Did consultant effectively work with the contractor in coordinating the utility and other work by local agencies? **Exceeds**

Did consultant coordinate their services with contractors work in a timely manner? **Satisfactory**

From:	Rooyakkers, Rebecca - DOT
To:	Bertrand, William - DOT
Cc:	Thomas Lanser; Andrew Klemp
Subject:	RE: 1100-53-30 drainage study review meeting - Bertrand (5708)
Date:	Wednesday, July 30, 2014 9:44:40 AM

This is an extremely well researched, documented, thought out, and professionally written report. Kudos to the team at Gremmer! I would have expected nothing less.

Becky

Rebecca L. Rooyakkers, P.E.
Technical Services Supervisor, NE Region
944 Vanderperren Way
Green Bay, WI 54304
Phone: 920-492-2394
email: rebecca.rooyakkers@dot.wi.gov

-----Original Appointment-----
From: Bertrand, William - DOT
Sent: Wednesday, July 30, 2014 7:17 AM
Subject: 1100-53-30 drainage study review meeting - Bertrand (5708)
When: Monday, August 25, 2014 1:00 PM-2:30 PM (UTC-06:00) Central Time (US & Canada).
Where: DOT CR DTSD NE Green Bay w/SMART Board; DOT CR DTSD NE Lake Michigan; DOT TEL DTSD NE TConf3 888-557-8511 Access 6381165

ID 1100-53-30
Fond du Lac – Oshkosh
County Z – WIS 26
US 41
Winnebago County

Our region maintenance area requested a drainage study under the above ID to investigate ongoing problems along US 41 between County Z and WIS 26 just south of Black Wolf Avenue. This area has experienced flooding during previous rain events and WisDOT is looking to determine factors that are contributing to the current problem and possible solutions. No construction dollars are currently allocated for improvements under this ID. Intent is for WisDOT to explore potential programming of any recommended improvement at the conclusion of the study.

WisDOT contracted with Gremmer & Associates to perform the drainage study and a kick-off meeting was held in December 2013. Since that time, Gremmer has conducted extensive field survey, researched the area drainage, and generated hydraulic model results to develop possible alternative solutions for the drainage issues. Gremmer just completed a draft report late last week that includes an existing condition analysis as well as a proposed alternative analyses.

This review meeting is being scheduled to discuss the draft report. The report and area overview map are available at:
N:\pds\projects\Winnebago\1100-53-30\30-60-90-Review\Design_Kickoff\

The draft report does not currently have costs associated with the proposed alternatives since there are some variables related to potential future construction projects that need to be discussed within our region. Gremmer is also assembling photographs of the existing conditions/structures that will be added into the final document.

From: David Gneiser
To: Thomas Lanser
Subject: Jeff Spaeth
Date: Wednesday, December 04, 2013 12:43:41 PM

Tom:

I wanted you and Gremmer & Associates to know that Jeff did an excellent job of managing the round-about project at Pioneer & Morris. I appreciated his timely updates. And even more, his cheerful attitude no matter what was going on in the project and no matter the complaints I'm certain that he was hearing. Always positive. What an asset he must be to your company.

David Gneiser
FdL Bumper Exchange, Inc.

P.S. Love the way traffic moves through the round-about's and under the railroad tracks. Excellent work – thanks!

From: Janke, Tom
To: Thomas Lanser
Subject: CTH VV (W. Pioneer Rd) Underpass
Date: Monday, August 08, 2011 12:21:09 PM

Tom, I had an opportunity Friday to walk the construction site of our first phase of the underpass project. As you probably know things are progressing nicely. On a different note, last week I had to deal with yet another issue from a small local bridge project being designed by a different consultant. In discussion, I stated that this simple design of a slab span bridge took more time and effort then our $15,000,000 underpass project. I have had the opportunity to work with 5 different consultants on our last projects with yours being by far the most challenging in both design and coordination. I don't think this is just a coincidence that yours went more smoothly than some of the others.

I often stated any DOT approved consultant can design a project. I still believe this is true but what separate them are the ones that take care of the details and do the extra effort. You have certainly done that and have minimized the problems that occur along the way and kept things moving. I truthfully believe if it wasn't for your constant push to keep things moving we wouldn't of broke ground this year and issues would go unresolved costing us more in the long run. You certainly go above and beyond and set the bar. With that said I wanted to say thanks and look forward to completion of this project. Thanks

Thomas J. Janke, P.E.
Fond du Lac County Highway Commissioner
301 Dixie Street
P.O. Box 1234
Fond du Lac, WI 54936-1234
Phone 920-929-3488
tom.janke@fdlco.wi.gov

City of Fond du Lac
First on the Lake

Website: www.ci.fond-du-lac.wi.us
City-County Government Center
160 S. Macy Street~P.O. Box 150~Fond du Lac, WI 54936-0150

October 1, 2010

Tom Lanser, P.E.
Gremmer & Associates, Inc.
93 South Pioneer Road, Suite 300
Fond du Lac, WI 54935

Re: Doty Street Bridge

Dear Tom,

The Fond du Lac area has experienced many construction projects and improvements during the past 18 months. Many of those have been designed and administered by your firm. All of them have added significant investment in our community's infrastructure coupled with improved aesthetic value.

One of those projects has caught my eye more than the others, and certainly deserves recognition. The recently completed Doty Street Bridge reconstruction turned out very well, and I commend you and your staff for the design and project oversight provided. The bridge spans the east branch of the Fond du Lac River and provides a transitional link from a residential neighborhood into our primary industrial hub. In a sense, it is a gateway structure along with serving as a vital transportation link. The old bridge was a tired thru-plate girder, which had major geometric and structural deficiencies.

The new structure Gremmer designed fits so very well with the roadway skew and the topography transitions. More importantly, it rides smoothly, provides pedestrian access links, and looks very nice. Feedback from the neighborhood and our community residents has yielded many positive comments.

Gremmer & Associates has certainly been a strong community partner with the City of Fond du Lac and my department. We value the services you provide and those relationships developed with your staff. Tom, on behalf of the City of Fond du Lac, thanks for delivering another successful project, on time and within budget.

Sincerely,

Mark O. Lentz, P.E.
Director of Public Works

cc: Thomas A. Herre, City Manager
Rick Goding, City Engineer

PERSONNEL SUMMARY

FOND DU LAC
93 South Pioneer Road, Suite 300
Fond du Lac, WI 54935
(920) 924-5720

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS

STEVENS POINT
120 Wilshire Boulevard North
Stevens Point, WI 54481
(715) 341-4363

DISCIPLINE	NAME	EDUCATION	CERTIFICATION	YEARS OF EXPERIENCE
Engineers				
	David Glodowski	UW-Madison	PE	30
	Thomas Lanser	UW-Madison	PE	29
	Scott Hintz	UW-Platteville	PE	29
	Chad Beyer	UW-Platteville	PE	24
	Andrew Klemp	UW-Madison	PE	22
	Benjamin Oitzinger	UW-Milwaukee	PE	21
	Michael Dombeck	UW-Platteville	PE	17
	Ryan Arndt	UW-Platteville	PE	16
	Jeffrey Chvosta	UW-Milwaukee	PE	16
	Jeffrey Spaeth	UW-Platteville	PE	16
	Dexter Kaetterhenry	UW-Madison	PE	10
	Brandon Kaiser	UW-Platteville	PE	7
	Cayleigh Shermo	UW-Platteville	PE	5
	Dominic DeLuca	UW-Milwaukee	EIT	2
	Jordan Hopp	UW-Madison	EIT	2
Surveyors				
	Dave Roberts	UW-Milwaukee	PLS	47
	Joe Glodowski		PLS	44
	Jay Panetti	Moraine Park Technical College	PLS	21
	Aaron Parks	Mid-State Technical College	PLS	19
Engineering Technicians				
	Aaron Feit	Mid-State Technical College		18
	Aaron Sarauer	Moraine Park Technical College		17
	Eric Jastromski	Mid-State Technical College		17
	Jessica Becker	Mid-State Technical College		17
	Lane Wetterau	Mid-State Technical College		17
	Aaron Dunn	Mid-State Technical College		15
	Nate Trzebiatowski	Mid-State Technical College		10
	Matthew Krofta	Moraine Park Technical College		6
	Todd Drew	Moraine Park Technical College		4
Accountant				
	Kris Mazur	UW-Stevens Point		19
Administrative Assistants				
	Diane Kubatzki			37
	Jennifer Cable	Lakeland College		27

Updated 03/2019

The following is a summary of Gremmer's key staff. These individuals have many years of experience on transportation projects. A detailed resume for each staff member below, or other staff members not listed is available on request.

Thomas Lanser, P.E. – Design Project Manager

BS Civil Engineering; UW-Madison

Tom is a Project Manager and President of Gremmer & Associates. He manages the Fond du Lac office, and has 29 years of experience designing and managing urban and rural transportation projects. Tom has been the Project Manager for over 100 transportation design projects statewide. His recent county highway design projects include CTH P, CTH C, CTH D, and CTH G/NN in Washington County; CTH LL, CTH T/Green Bay Road, CTH O, and CTH I projects in Ozaukee County; CTH VV, CTH V, CTH S, and CTH M in Fond du Lac County; and CTH C, CTH E, and CTH A in Dodge County. Tom's recent WisDOT highway project experience includes the STH 116, STH 26, and STH 44 resurface projects in Winnebago County, the STH 16/I39/STH 127 interchange project in Columbia County, the STH 15/Hortonville Bypass project in Outagamie County, the USH 61 rehabilitation project in Grant County, and the STH 78 resurface project in Lafayette County.

Tom's strengths include detailed project management and outstanding client service. He has developed a strong reputation for quality work and excellent service with the nearby counties of Fond du Lac, Dodge, Washington, and Ozaukee. In addition to managing projects and Gremmer staff, Tom is responsible for quality control and client relations.

David L. Glodowski, P.E. – Design Project Manager

BS Civil Engineering; UW-Madison

Dave is a Project Manager and Vice President of Gremmer & Associates. He manages the Stevens Point office and has and has 29 years of experience designing and managing urban and rural transportation projects. Tom has been the Project Manager for over 100 transportation design projects statewide. His recent county highway design projects include the CTH I, CTH B, CTH KK, and CTH Z roadway projects and the CTH S and CTH F bridge replacement projects in Portage County. Dave's recent WisDOT highway project experience includes the USH 141 rehabilitation project in Vernon County, the STH 73 rehabilitation project in Clark County, the STH 80 project in Elroy, the STH 98 project in Loyal, and the USH 10 resurface project in Manitowoc County.

Dave's strengths include detailed project management and outstanding client service. He has developed a strong reputation for quality work and excellent service with WisDOT and counties in the Stevens Point area. In addition to managing projects and Gremmer staff, Dave is responsible for quality control and client relations.

Scott Hintz, P.E. – Construction Project Manager

BS Civil Engineering; UW-Platteville

Scott is a Project Manager and Vice President of Gremmer & Associates. He manages Gremmer's construction inspection division and has 29 years of experience inspecting highways and bridges under the WisDOT process. Scott has been the Project Manager or lead inspector for over 30 transportation design projects statewide. His recent county highway construction inspection experience includes CTH CB in Calumet County and CTH CE in Outagamie County. His recent WisDOT construction inspection experience includes STH 116 in Winnebago County, STH 22 in Waupaca County, and Kimberly Avenue and Lawe Street bridge in Outagamie County. Scott was also the Project Manager for the STH 49 project in Green Lake County back in 1995.

Scott's strengths include detailed project management and outstanding client service. He has developed a strong reputation for quality work and excellent service with WisDOT and counties in the Stevens Point and Fox Valley area. In addition to managing projects and Gremmer staff, Scott is responsible for quality control and client relations.

Project Engineer/Lead Roadway Design: Ben Oitzinger, P.E.

BS Civil Engineering; UW-Milwaukee

Ben is a Project Engineer with 20 years of experience in designing urban and rural transportation and municipal projects. He has been the project engineer or lead roadway design engineer for over 30 roadway projects statewide in the last 20 years. His recent county highway design project experience includes the CTH VV and CTH V projects in Fond du Lac County, the CTH M, CTH C, CTH E, and CTH A projects in Dodge County, and the CTH O and CTH I projects in Ozaukee County. The CTH VV and CTH V projects were WisDOT oversight projects that were constructed in 2013 and 2017. Both of these projects were selected as statewide winners at the 2014 and 2018 WisDOT Transportation Improvement Conference.

Ben's recent WisDOT highway project experience includes the STH 116 and STH 26 resurface projects in Winnebago County, the STH 16/I39/STH 127 interchange project in Columbia County, and the STH 15/Hortonville Bypass project in Outagamie County. Ben also was the project engineer and lead roadway engineer for the Green Lake Business Park development at the southwest quadrant of the STH 23 and CTH A intersection, which included a modification of CTH A to accommodate the development.

Ben's expertise includes preliminary and final roadway design, intersection geometrics/design, roundabout design/modeling, utility and railroad coordination, and preparation and delivery of specifications and bid documents.

Project Engineer/Lead Roadway Design: Jeff Chvosta, P.E.

BS Civil Engineering; UW-Milwaukee

Jeff is a Project Engineer with 15 years of experience in designing and managing urban and rural transportation and municipal projects. He has been the project engineer or lead roadway design engineer for over 20 roadway projects statewide, including numerous county highway projects within the last 10 years. His recent county highway design project experience includes the CTH D, CTH P, CTH W, and CTH C projects in Washington County, the CTH D, CTH LL, and CTH T/Green Bay Road projects in Ozaukee County, and the CTH S and CTH N projects in Fond du Lac County. Jeff's recent WisDOT highway project experience includes the USH 61 rehabilitation project in Grant County, the STH 44 resurface project in Winnebago County, and the STH 78 resurface project in Lafayette County.

Jeff's expertise includes preliminary and final roadway design, intersection geometrics/design, roundabout design/modeling, utility and railroad coordination, and preparation and delivery of specifications and bid documents.

Project Engineer/Lead Roadway Design: Dexter Kaetterhenry, P.E.

BS Civil Engineering; UW-Madison

Dexter is a Project Engineer with 9 years of experience in designing and managing urban and rural transportation and municipal projects. He has been the project engineer or lead roadway design engineer for over 20 roadway projects statewide, including numerous county highway projects within the last 10 years. His recent county highway design project experience includes the CTH I project in Portage County and the CTH B project in Waupaca County. Dexter's recent WisDOT highway project experience includes the the USH 141 rehabilitation project in Vernon County, the STH 73 rehabilitation project in Clark County, the STH 80 project in Elroy, the STH 98 project in Loyal, and the USH 10 resurface project in Manitowoc County.

Dexter's expertise includes preliminary and final roadway design, intersection geometrics/design, roundabout design/modeling, utility and railroad coordination, and preparation and delivery of specifications and bid documents.

Project Engineer/Water Resources Engineer: Andy Klemp, P.E.

BS Civil Engineering; UW-Madison

MS Civil Engineering Hydrology/Hydraulics; UW-Madison

Andy is a Water Resources Engineer with 21 years experience in roadway drainage/design, stormwater management planning/design, storm sewer design, structure hydraulics, erosion & sediment control design, water quality treatment, and environmental permitting for transportation projects. He has been the project engineer and lead hydraulics engineer for over 30 bridge projects statewide. He has been lead drainage and permitting engineer for over 30 roadway projects, and has designed over 100 stormwater management projects for both private and public sector projects. His recent county highway design project experience includes serving as the stormwater, drainage, and permitting lead for the CTH N, CTH S, CTH VV, and CTH V projects in Fond du Lac County, the CTH M, CTH C, CTH E, and CTH A projects in Dodge County, the CTH D, CTH P, CTH W, and CTH C projects in Washington County, and the CTH D, CTH LL, CTH O and CTH I projects in Ozaukee County.

Construction Project Manager/Structure Design Engineer: Ryan Arndt, P.E.

BS Civil Engineering; UW-Platteville

Ryan is a Project Engineer with 12 years of experience in construction inspection and design of highways and structures. He has been the construction project engineer for over 25 roadway projects within the last 10 years. His recent county highway construction inspection experience includes CTH A, CTH DE, and CTH EE bridge in Dodge County. His recent WisDOT county highway construction inspection experience includes the STH 33/CTH P roundabout, STH 28/67, STH 49, and STH 33 in Dodge County, and STH 19 and STH 16 in Jefferson County.

Ryan has been the lead structure designer for over 10 structures in the last 10 years. His recent structure design experience includes serving as the lead structure designer for the Nekimi Avenue and South Road bridge replacements in Winnebago County, the CTH S and CTH F bridges in Portage County, the CTH A bridge replacement project in Ozaukee County, and the Olden Road, Melody Lane, Doty Street, and Grove Street bridge replacement projects in Fond du Lac County. Ryan has developed a reputation for being one of the premier inspectors for WisDOT's Southwest Region.

Ryan has designed single- and multiple-span structures using both concrete slab spans and prestressed girders featuring a wide variety of abutment/wing types. Ryan integrates his construction experience into all structure designs to produce the most cost effective and practical design for each project.

Construction Project Manager: Jeff Spaeth, P.E.

BS Civil Engineering; UW-Platteville

Jeff is a Project Engineer with 16 years of experience in construction inspection and design of transportation projects. He has been the construction project engineer for over 25 highway projects within the last 15 years. His recent county highway construction inspection experience includes CTH VV in Fond du Lac County, which included two roundabouts and a new RR grade separation structure that replaced an existing at-grade RR crossing. His recent WisDOT construction inspection experience includes USH 45, STH 67, and STH 26 in Fond du Lac County, and STH 175 and STH 26 in Fond du Lac County, and STH 175 and USH 41/STH 144 interchange in Washington County. Jeff has developed a reputation for being one of the premier inspectors in WisDOT's Northeast Region.

Water Resources Engineer: Dominic Deluca, E.I.T.

BS Civil Engineering; UW-Milwaukee

Dominic is a Water Resources Engineer with 2 years of experience in roadway drainage/design, stormwater management planning/design, storm sewer design, structure hydraulics, erosion & sediment control design, water quality treatment, and environmental permitting for transportation projects. His recent highway design project experience includes the CTH VV, and CTH V projects in Fond du Lac County, the CTH M and CTH C projects in Dodge County, the CTH D, CTH P, and CTH W projects in Washington County, and the CTH D projects in Ozaukee County.

Surveyor & Right-of-Way Plats: Jay Panetti, P.L.S.

Civil Engineering Technician; Moraine Park Technical College

Jay is a Professional Land Surveyor with 18 years of experience in surveying and preparing right-of-way plats for transportation projects. He is the Survey Coordinator for Gremmer's Fond du Lac Office, and is responsible for setting horizontal and vertical control, determining existing right-of-way, preparing right-of-way plats, and construction staking for all transportation projects out of the Fond du Lac office. Jay utilizes Trimble Total Station, robotic, and GPS survey equipment to complete his various survey and plat tasks. Jay is proficient with Civil 3D, WISCORS, and SDMS, and utilizes GST and TSC software for post-processing of field data.

Jay has been the lead surveyor and right-of-way plat preparer for 50 transportation projects over the past 10 years, including both rural and urban highways and bridges across a wide variety of project improvement types (majors, realignment, reconstruct, resurface, & structures). Jay's recent county highway experience includes the CTH D, CTH P, CTH C, CTH G/CTH NN, CTH H, and CTH M projects in Washington County; the CTH S, CTH V, CTH VV, CTH M and STH 49 projects in Fond du Lac County; the CTH D, CTH LL, and CTH T/Green Bay Road project in Ozaukee County; and the CTH C, CTH A, CTH E, CTH P, CTH O, and CTH S projects in Dodge County.

Jay also has extensive experience in performing property and boundary surveys, which is highlighted by the over 50 boundary surveys he's completed for private clients over the past few years. This includes serving as the lead surveyor on dozens of certified survey maps, subdivision and condominium plats, ALTA/ACSM Land Title Surveys, and plats of survey.

Surveyor & Right-of-Way Plats: Aaron Parks, P.L.S.

Civil Engineering Technician; Mid-State Technical College

Aaron is a Professional Land Surveyor with 19 years of vast surveying experience. He is the Survey Coordinator for Gremmer's Stevens Point Office, and is responsible for all surveying needs for transportation and site design projects out of the Stevens Point office. Aaron has produced numerous Certified Survey Maps (CSMs), American Land Title Association/National Society of Professional Surveyors (ATLA/NSPS) Surveys and takes pride in helping clients bring their projects to fruition. Aaron's recent r/w plat experience includes completing a TPP along STH 153 in Shawano County.

Aaron is responsible for setting horizontal and vertical control; determining existing right-of-way; producing structure survey reports; performing topographic and utility surveys, railroad crossing surveys, and flood plain surveys; preparing right-of-way plats and Transportation Project Plats (TPPs); and establishing construction layout/staking.

Bridge Inspection Services (sublet to Jewell Associates Engineers, Inc.)

Gremmer & Associates proposes to sublet any bridge inspection services to Jewell Associates Engineers. Jewell has performed numerous bridge inspections for many Counties statewide.

Jewell's bridge inspection qualifications and staff are shown on the following pages.

Jewell's billable rates for bridge inspections is $110/hour for 2019 and $115/hour for 2020.

JEWELL
associates engineers, inc.
Engineers - Architects - Surveyors

Bridge Inspection Services




Inspection Capabilities

- Routine Inspections
- Interim Inspections
- Emergency Inspections
- New Structure Inspections
- Load Ratings
- Inspection Data Entry
- HSIS Entry
- Maintenance Recommendations
- Single Span Structures
- Multiple Span Structures
- Fracture Critical Bridge Inspections

Structure Rehabilitation

- Structure Inspection
- Independent Engineer's Reports

Certified Inspectors

- Greg Jewell, PE, PLS
  Inspector #9575
- Michael Mertens, PE
  Inspector #9516
- Ralph Liegel
  Inspector #9527
- Robert Hanold, PE
  Inspector #9992

Jewell Associates has provided bridge inspection services since the company's founding in 1993. We are experienced with a wide variety of bridge types including: single and multiple span structures, pre-stressed concrete girders, reinforced concrete slab bridges, steel girder/concrete deck structures, timber bridges, box culverts, and prefabricated pedestrian and bicycle bridges.

Our trained and certified bridge inspectors are available to provide the routine biennial inspections and interim inspections required by the Federal Highway Administration. When the need arises our staff can also provide emergency inspections following floods, accidents or other events that may damage a bridge and compromise safety.

In recent years, Jewell Associates has also been contracted by several counties in the southwestern region of the state to manage their local bridge programs. Management services include inspection, submittal of inspection data to the Highway Structures Information System maintained by WisDOT, review of bridge data, and recommendations for needed maintenance.

Spring Green, WI
608-588-7484
www.jewellassoc.com
Wisconsin Rapids, WI
715-424-2424

JEWELL
associates engineers, inc.
Engineers - Architects - Surveyors

Bridge Inspection Experience

Inspection Capabilities

- Routine Inspections
- Interim Inspections
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  Inspector #9992

- **Iowa County:** Routine Bridge Inspections in 2000, 2002, 2004, 2006, & 2014, 2015
- **Vernon County:** Routine Bridge Inspections including Program Management in 2008, 2010, 2014 - 2018
- **Crawford County:** Routine Bridge Inspections including Program Management in 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010 - 2018
- **Green County:** Routine Bridge Inspections in 1994, 1996, 1998, 2000, 2002, 2008, 2014 - 2018
- **Trempealeau County:** Routine Bridge Inspections in 1994, 1998, 2000, 2002, 2004, 2006, 2007, 2009, 2012 & 2013
- **Richland County:** Routine Bridge Inspections including Program Management in 2010 - 2017
- **La Crosse County:** Routine Bridge Inspections including Program Management in 2010 - 2014
- **City of Janesville:** Routine Bridge Inspections in 2004, 2015 - 2017
- **Rock County:** Routine Bridge Inspections including Program Management in 1994, 2010 - 2015
- **Monroe County:** Routine Bridge Inspections in 2014 - 2018
- **City of Fitchburg:** Routine Bridge Inspections in 2014 - 2017
- **Washington County:** Routine Bridge Inspections in 2016, 2017
- **Ozaukee County:** Routine Bridge Inspections in 2016, 2017

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PROJECT EXPERIENCE

A summary of Gremmer's rural, urban, and bridge design experience is shown below, followed by several recent project write-ups.

Gremmer & Associates, Inc. Rural Highway/Roadway Design Experience

Legend: TLL = Tom Lanser; DLG = Dave Glodowski; BLO = Ben Oitzinger; JAC = Jeff Chvosta; DDK = Dexter Kaetterhenry

Year	Project ID	County	Road	Name	Project Manager	Project Engineer	Type	WisDOT or Local
2019	5590-01-00	Lafayette	STH 78	Argyle - Blanchardville	TLL	JAC	Resurface	WisDOT
2019	City	Waupaca	Evans Street	CTH E - Churchill Avenue	DLG	DDK	Reconstruct	Local
2019	1640-04-01	Vernon	USH 141	Rusk Avenue - Kickapoo River	DLG	DDK	Resurface	WisDOT
2018	County	Fond du Lac	CTH N	CTH RP - USH 45	TLL	JAC	Reconstruct	Local
2018	County	Washington	CTH W	STH 33 - STH 175	TLL	BLO	Reconstruct	Local
2018	County	Washington	CTH D	Nenno Road - CNRR	TLL	JAC	Realignment	Local
2018	7050-03-01	Clark	STH 73	E Cty Line - Merridan Avenue	DLG	DDK	Resurface	WisDOT
2018	6190-21-30	Winnebago	STH 116	WIS 91 - WIS 21	TLL	BLO	Resurface	WisDOT
2018	1110-13-00	Winnebago	STH 26	SCL - IH 41	TLL	BLO	Resurface	WisDOT
2017	1161-02-04	Columbia	STH 16/IH 39	IH 39/STH 16 Interchange Area	TLL	BLO	RAB/resurface	WisDOT
2017	6110-24-60	Winnebago	STH 44	SCL - WIS 91	TLL	JAC	Resurface	WisDOT
2017	1500-67-30	Manitowoc	USH 10	CTH P - CTH R, Reedsville - Manitowoc	DLG	DDK	Recondition	WisDOT
2017	County	Portage	CTH I	CTH Z - North Collins Lake Lane	DLG	DDK	Reconstruct	Local
2017	County	Washington	CTH P	Canyon Drive - STH 60	TLL	JAC	Reconstruct	Local
2016	County	Washington	CTH D	USH 45 - Green Tree Road	TLL	JAC	Recondition	Local
2016	County	Ozaukee	CTH LL	Railroad bridge - Wisconsin Street	TLL	JAC	Recondition	Local
2016	County	Ozaukee	CTH T/Green Bay Rd	Intersection reconstruction	TLL	JAC	Reconstruct	Local
2016	1620-03-00, -01	Marathon	STH 13	McMillan St. - 26th Rd., Marshfield - Abbotsford	DLG	DDK	Recondition	WisDOT
2016	7550-00-30	Jackson	STH 54	West Co. Line - STH 71 East Bound	DLG	DDK	Recondition	WisDOT
2014	County	Dodge	CTH C	Jersey Road - USH 151	TLL	BLO	Reconstruct	Local
2014	6832-09-00	Waupaca	CTH B	Royalton - Manawa, County Yard Rd. - Euclid Ave.	DLG	DDK	Reconstruct	Local
2013	County	Washington	CTH C	Wisconsin American Dr - CTH Z	TLL	JAC	Reconstruct	Local
2013	County	Washington	CTH G/NN	Roundabout Intersection	TLL	JAC	Reconstruct	Local
2013	7080-05-73	Jackson	USH 12	Village of Merrillan, N. Jct. Old Hwy. 12 – Merrill St	DLG	DDK	Reconstruct	WisDOT
2013	4337-10-01	Manitowoc	USH 10	Branch River Bridge, USH 10/CTH P Intersection	DLG	JAC	Reconstruct	WisDOT
2012	1146-75-00	Outagamie	STH 15	USH 45 - Greenville (Hortonville Bypass)	TLL	BLO	New/Realign	WisDOT
2012	6090-07-00	Fond du Lac	STH 49	Waupun - Brandon	TLL	BLO	Recondition	WisDOT
2012	Town	Fond du Lac	Johnsburg Road	USH 151 - CTH W	TLL	JAC	Recondition	Local
2012	County	Fond du Lac	CTH M	Rosendale Dairy Farm - North County Line	TLL	JAC	Recondition	Local
2012	3880-00-01	Dodge	CTH E	CTH A - Industrial Drive	TLL	BLO	Recondition	WisDOT
2012	County	Dodge	CTH A	STH 33- CTH AW	TLL	BLO	Recondition	Local
2012	1393-00-05	Calumet	USH 10 (Ryan St.)	City of Brillion, CTH HR - E. CPL	DLG	DDK	Reconstruct	WisDOT
2012	County	Portage	CTH Z	STH 66 - Rocky Ridge Rd - Edgewood	DLG	DDK	Reconstruct	Local
2012	6767-06-01	Portage	CTH B	Lime Lake Rd. - Kubisiak Drive	DLG	DDK	Reconstruct	Local
2010	2696-00-02	Ozaukee	CTH O	Cedar Creek Road - Cedar Sauk Road	TLL	BLO	Recondition	WisDOT
2010	City	Ozaukee	Pioneer Road	Wasaukee Road - Davis Road	TLL	TLL	Recondition	Local
2009	6200-15-00	Winnebago	USH 45	CTH G - CTH II	TLL	JAC	New	WisDOT
2009	2310-11-00	Washington	STH 60 / CTH G	Roundabout Intersection	TLL	BLO	RAB	WisDOT
2009	Town	Fond du Lac	Kiel Road	CTH G to Dorn Road	TLL	JAC	Recondition	Local
2009	County	Fond du Lac	CTH Y	Lamartine	TLL	JAC	Reconstruct	Local
2008	County	Washington	CTH H	STH 144 to Milwaukee River Bridge	TLL	JAC	Reconstruct	Local
2008	4337-10-00	Manitowoc	USH 10	USH 10/STH 310, Branch River - CTH R (IH 43)	DLG	JAC	Recondition	WisDOT
2007	2697-05-70	Ozaukee	Wasaukee Road	County Line Road - STH 167	TLL	BLO	Recondition	WisDOT
2007	1410-63-70/71	Ozaukee	CTH I	Cedar Sauk Road - 0.25 miles N. of STH 33	TLL	BLO	Reconstruct	WisDOT
2007	4110-01-71	Fond du Lac	USH 45	Scott Street - North County Line	TLL	BLO	Resurface	WisDOT
2007	County	Dodge	CTH O	STH 67 - CTH P	TLL	BLO	Reconstruct	Local
2007	County	Dodge	CTH P	South County Line - CTH O	TLL	BLO	Reconstruct	Local
2007	County	Waupaca	CTH X	CTH A - CTH EE	DLG	DLG	Reconstruct	Local
2006	County	Washington	CTH M	3200' N of STH 60 - 1200' N of Cedar Creek Rd	TLL	BLO	Reconstruct	Local
2006	2745-00-70	Washington	CTH M	Cedar Creek Bridge & Approaches	TLL	BLO	Reconstruct	WisDOT
2006	County	Dodge	CTH S	USH 151 - Jay Road	TLL	BLO	Reconstruct	Local
2006	7100-02-72	Monroe	CTH B	2.4 miles N of Sparta - Cataract	TLL	BLO	Reconstruct	WisDOT
2006	6310-06-04	Waushara	STH 73	STH 73 (North St.), Village of Plainfield	DLG	BLO	Reconstruct	WisDOT
2005	1120-09-00	Winnebago	USH 41	USH 45 - Breezewood	TLL	BLO	Expansion	WisDOT
2005	County	Dodge	CTH S	Jay Road - CTH G	TLL	BLO	Reconstruct	Local
2005	4100-05-71	Calumet	USH 151	STH 55 - Chilton	TLL	BLO	Reconstruct	WisDOT
2005	1491-05-71	Marinette	USH 141	STH 180 - CTH K	DLG	DLG	Recondition	WisDOT
2005	6824-00-71	Waupaca	CTH QQ	STH 22 - STH 54	DLG	DLG	Reconstruct	WisDOT
2005	1491-07-00	Marinette	USH 141	STH 180 - CTH K, Wausaukee - Amberg	DLG	DLG	Recondition	WisDOT
2005	6390-00-00, -01	Wood	STH 73/STH 173	STH 73 (STH 173-STH 54), STH 173 (CTH G-STH 7	DLG	DLG	Recondition	WisDOT
2004	6819-01-72	Waupaca	CTH C	CTH J - CTH E	DLG	DLG	Reconstruct	WisDOT
2003	County	Waupaca	CTH B	Spring Street - North Street	DLG	DLG	Reconstruct	Local
2003	4101-03-71	Calumet	USH 151	South County Line - STH 55	TLL	BLO	Recondition	WisDOT
2003	4050-06-71	Calumet	STH 55	USH 151 - Sherwood	TLL	BLO	Recondition	WisDOT
2002	6847-00-72	Waupaca	CTH Q	Round Lake Road - CTH QQ	DLG	DLG	Reconstruct	WisDOT
2002	4085-19-71	Calumet	STH 32/57	Chilton - Hilbert	TLL	BLO	Resurface	WisDOT
2001	County	Dodge	Old CTH D	STH 175 - CTH D	TLL	BLO	Reconstruct	Local
2001	County	Dodge	CTH D	STH 175 - East County Line	TLL	BLO	New	Local
2000	3881-01-71	Dodge	CTH Y	Dairy Road - CTH V	TLL	BLO	Reconstruct	WisDOT
1999	9149-01-71	Oconto	CTH Z	Pelot Lane - STH 64	TLL	BLO	Reconstruct	WisDOT
1999	9160-03-71	Marinette	STH 64	West County Line - USH 141	TLL	BLO	Recondition	WisDOT
1998	7100-02-71	Monroe	CTH B	Sparta - 2.4 miles N of Sparta	TLL	TLL	Reconstruct	WisDOT
1998	9063-07-71	Marinette	CTH X	Creek Road - Lake Mary Road	TLL	TLL	Reconstruct	WisDOT
1998	7239-06-72	Jackson	CTH A	Black River Falls - Hixton	TLL	TLL	Recondition	WisDOT
1998	1500-17-71	Calumet	USH 10	STH 114 - STH 441	TLL	TLL	Resurface	WisDOT
1997	3940-03-74	Dodge	CTH P	CTH O - Washington Road	TLL	TLL	Reconstruct	WisDOT

PROJECT EXPERIENCE

Gremmer & Associates, Inc. Urban Highway/Street Design Experience

Legend: TLL = Tom Lanser; DLG = Dave Glodowski; BLO = Ben Oitzinger; JAC = Jeff Chvosta; DDK = Dexter Kaetterhenry

Year	Project ID	County	Municipality	Road	Section	Project Mgr	Project Eng	Type	WisDOT/Municipal
2019	NA	Portage	Stevens Point	Various	2019 Street Improvements	DLG	DDK	Reconstruct	Municipal
2019	5530-02-01	Juneau	Elroy	STH 80	Liberty Street - STH 82	DLG	DDK	Reconstruct	WisDOT
2018	NA	Ozaukee	Port Washington	Various	2018-2019 Street Improvements	TLL	JAC	Reconstruct	Municipal
2018	NA	Dodge	Waupun	Madison Street	Doty Street - S. Branch Rock River	TLL	JAC	Reconstruct	Municipal
2018	NA	Marathon	Mosinee	Orbiting Drive	Owen Street - STH 153	DLG	DDK	Reconstruct	Municipal
2018	NA	Marathon	Mosinee	9th Street	Short Street - High Street	DLG	DDK	Reconstruct	Municipal
2018	NA	Marathon	Mosinee	10th Street	11th Street - Jackson Street	DLG	DDK	Reconstruct	Municipal
2018	NA	Fond du Lac	Fond du Lac	CTH V	Fond du Lac Avenue - Rienzi Road	TLL	BLO	Reconstruct/RAB	Municipal
2018	NA	Fond du Lac	Fond du Lac	CTH VV	Forest Avenue - Johnson Street	TLL	BLO	Reconstruct	Municipal
2018	NA	Fond du Lac	Fond du Lac	CTH V	CTH VV - Fond du Lac Avenue	TLL	BLO	Reconstruct/RAB	Municipal
2017	4986-00-22	Fond du Lac	Fond du Lac	CTH VV	Rogersville Road - Hickory Street	TLL	BLO	Reconstruct/RAB	WisDOT
2017	NA	Fond du Lac	New Fane	CTH S	Riverside Drive - CTH DD	TLL	JAC	Reconstruct	Municipal
2016	1650-07-02	Grant	Dickeyville	USH 61	Pitzen Lane to Hickory Lane	TLL	JAC	Rehabilitation	WisDOT
2016	4880-01-00	Ozaukee	Belgium	CTH D	W Village Limits - CTH LL	TLL	JAC	Reconstruct	WisDOT
2016	NA	Marathon	Mosinee	Central WI Bus Park	Various Bus Park Streets	DLG	DDK	Reconstruct	Municipal
2016	1146-75-00	Outagamie	Greenville	STH 15		TLL	BLO	Reconstruct	WisDOT
2016	7040-01-03	Clark	Loyal	STH 98	Helm Street - Elm Street	DLG	JAC/DDK	Reconstruct	WisDOT
2015	5845-01-31	Dane	Stoughton	USH 51	Silverado Drive - Madison	TLL	JAC	Rehabilitation	WisDOT
2015	1620-03-00/01	Wood	Marshfield	STH 13	McMillan - 26th Road	DLG	DDK	Rehabilitation	Municipal/WisDOT
2015	NA	Fond du Lac	Fond du Lac	Police Memorial Drive	Camelot Dr to Martin Rd	TLL	JAC	New	Municipal
2015	NA	Washington	Jackson	Wilshire Blvd	Georgetown Dr to Jackson Dr	TLL	JAC	Reconstruct	Municipal
2016	NA	Ozaukee	Port Washington	Various	2016-2017 Street Improvements	TLL	JAC/BJR	Reconstruct	Municipal
2014	NA	Ozaukee	Port Washington	Various	2014 Street Improvements	TLL	JAC/BJR	Reconstruct	Municipal
2013	NA	Ozaukee	Grafton	Port Washington Road		TLL	JAC/BJR	Reconstruct	Municipal
2013	6832-09-00	Waupaca	Manawa	CTH B	Euclid Avenue - County Yard Road	DLG	DDK	Reconstruct	Municipal/WisDOT
2013	7080-05-03	Jackson	Merrillan	USH 12	Old Hwy 12 Road - Merrill Street	DLG	DDK/JAC	Reconstruct	WisDOT
2013	4337-10-01	Manitowoc	Branch	USH 10	Branch River - CTH P	DLG	DDK/JAC	Reconstruct	WisDOT
2013	NA	Ozaukee	Ozaukee County	CTH D/CTH LL		TLL	JAC/BJR	Reconstruct	Municipal
2012	1500-25-00	Calumet	Brillion	USH 10		DLG	DDK/JAC	Reconstruct	WisDOT
2012	NA	Portage	Stevens Point	BUS 51 / Division Street	Maria Drive - Northpoint Avenue	DLG	DDK	Reconstruct	Municipal
2010	NA	Ozaukee	Grafton	Falls Road	Blackhawk Drive - Port Washington Road	TLL	JAC/BJR	Reconstruct	Municipal
2010	NA	Ozaukee	Port Washington	Division/Chestnut/Wisconsin		TLL	JAC	Reconstruct	Municipal
2010	NA	Ozaukee	Port Washington	Sunset Road		TLL	JAC	Reconstruct	Municipal
2008	4830-04-00	Fond du Lac	Fond du Lac	CTH VV	Hickory Street - Main Street	TLL	BLO	Reconstruct/RAB	WisDOT
2007	NA	Fond du Lac	Ripon	New Industrial Park	Ripon Industrial Park	TLL	JAC	New	Municipal
2007	4822-06-00	Ozaukee	Port Washington	North Spring Street	STH 33 - Mallinger Drive	TLL	JAC	Reconstruct	WisDOT
2007	4831-02-00	Fond du Lac	Fond du Lac	Sixth Street	Main Street - Fond du Lac Avenue	TLL	JAC	Reconstruct	WisDOT
2007	1120-11-02	Winnebago	Oshkosh	USH 41	Local Roads	TLL	BLO	Reconstruct	WisDOT
2007	NA	Fond du Lac	Lamartine	CTH Y	Lamartine	TLL	JAC	Reconstruct	Municipal
2007	4065-12-00	Winnebago	Menasha	STH 114	Tayco - Racine Street	TLL	JAC	Reconstruct	WisDOT
2007	4065-13-00	Winnebago	Menasha	STH 114	Racine - Manitowoc	TLL	JAC	Reconstruct	WisDOT
2007	1393-00-05	Dodge	Watertown	STH 26	Main Street - Union Pacific RR	TLL	BLO	Reconstruct	WisDOT
2007	NA	Washington	Jackson	Green Valley #1		TLL	JAC	Reconstruct	Municipal
2007	NA	Washington	Jackson	Rosewood Lane		TLL	JAC	Reconstruct	Municipal
2007	6310-06-01	Waushara	Plainfield	STH 73	I39 - CTH PP	DLG	DLR	Reconstruct	WisDOT
2006	NA	Winnebago	Oshkosh	Washburn Street		TLL	BLO	New Alignment	Municipal
2006	NA	Washington	Jackson	Ridge Road		TLL	JAC	Reconstruct	Municipal
2006	NA	Washington	Jackson	Parkview Road	Rock Creek - Hunt Street	TLL	JAC	Reconstruct	Municipal
2006	7050-03-70	Clark	Greenwood	STH 73		DLG	DLR	Reconstruct	WisDOT
2006	6933-00-00	Wood	Neekosa	STH 73/173		DLG	DLR	Resurface	WisDOT
2006	4809-03-00	Fond du Lac	Fond du Lac	Martin Road		TLL	JAC	Reconstruct	Municipal
2005	NA	Washington	Jackson	Reynolds Street		TLL	JAC	Reconstruct	Municipal
2004	NA	Washington	Jackson	South Street	Mallinger Drive - CTH KK	TLL	JAC	Reconstruct	Municipal
2004	NA	Ozaukee	Port Washington	North Spring Street	Fox River - N. City Limits	TLL	JAC	Reconstruct	Municipal
2004	4068-06-00	Winnebago	Neenah	STH 114		DLG	DLR/BLO	Reconstruct	WisDOT
2003	NA	Washington	Jackson	Parkway Street		TLL	JAC	Reconstruct	Municipal
2003	6110-04-00	Fond du Lac	Ripon	STH 44		TLL	BLO	Reconstruct	WisDOT
2002	4100-19-71	Calumet	Chilton	USH 151	Quinney - Heimann	TLL	BLO	Reconstruct	WisDOT
2002	4085-21-00	Calumet	Chilton	STH 32/USH 151		TLL	BLO	Reconstruct	WisDOT
2001	3861-00-00	Fond du Lac	Fond du Lac	Scott Street		TLL	BLO	Reconstruct	WisDOT
2000	NA	Fond du Lac	Fond du Lac	Campus Drive		TLL	BLO	Reconstruct	Municipal
2000	NA	Fond du Lac	Fond du Lac	University Drive		TLL	BLO	Reconstruct	Municipal
2000	NA	Fond du Lac	Fond du Lac	Luco Road		TLL	BLO	Reconstruct	Municipal
1999	4809-04-00	Fond du Lac	Fond du Lac	Seymour Street		TLL	BLO	Reconstruct	WisDOT
1998	1500-17-00	Calumet		USH 10		TLL	BLO	Resurface	WisDOT

PROJECT EXPERIENCE

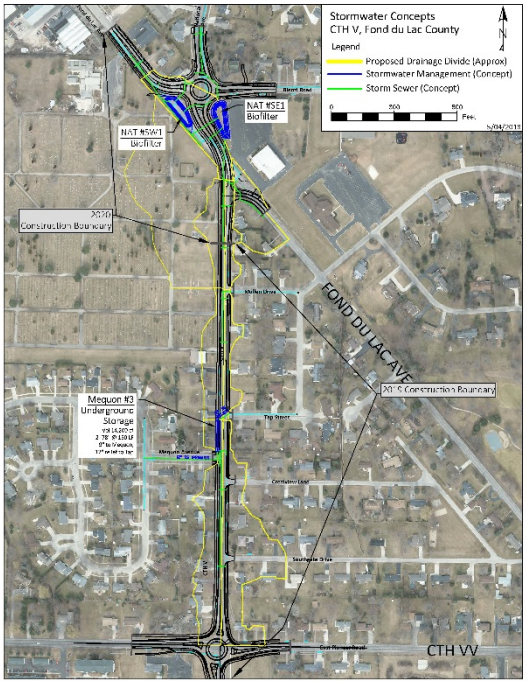
Gremmer & Associates, Inc. Structure Design Experience

Legend: TLL = Tom Lanser; CPM = Craig McKinney; TAG = Tim Gremmer; ALK = Andy Klemp; DLG = Dave Glodowski; RTA = Ryan Arndt

Year	Project ID	County	Road	Name	Bridge No.	Structure Type	Project Manager	Structure Designer	Structure Hydraulics
2018	6180-18-00	Winnebago	STH 21	Fox River Bridge	B-70-0091	Bridge rehab	TLL	BOS	N/A
2018	N/A	Portage	CTH F	Bridge over Buena Vista Creek	B-49-191	38' long, 1 flat concrete slab	DLG	RTA	ALK
2018	1650-07-83	Grant	USH 61	Platte River Bridge	B-22-288	290' long, 5 span haunched concrete slab	TLL	BOS	BOS
2018	6435-03-00	Winnebago	Nekimi Avenue	Weyhurst Creek Bridge	B-70-294	48' long, 1 span flat concrete slab	TLL	RTA	ALK
2017	7050-09/08-03	Clark	STH 73	Tomas Creek Bridges	B-10-192/19	2 span concrete overlay	DLG	RTA	N/A
2016	6482-02-00	Fond du Lac	Olden Road	Bridge over Fond du Lac River	B-20-230	30' long, 1 span flat concrete slab	TLL	RTA	ALK
2016	6446-00-00	Winnebago	South Road	Bridge over Rat River	B-70-320	108' long, 2 span haunched slab	TLL	RTA	ALK
2015	N/A	Portage	CTH S	Bridge over Tributary to Mill Creek	B-49-184	28' long, 1 flat concrete slab	DLG	RTA	ALK
2013	4808-06-00	Fond du Lac	Melody Lane	Bridge over Anderson Creek	B-20-229	38' long, 1 span flat concrete slab	TLL	RTA	ALK
2012	4881-00-00	Ozaukee	CTH A	Bridge over Sauk Creek	B-45-100	74' long, 1 span prestressed concrete girder	TLL	RTA	ALK
2009	4809-06-00	Fond du Lac	Grove Street	Bridge over West Branch Fond du Lac River	B-20-206	66' long, 2 span flat concrete slab	TLL	RTA/CPM	ALK
2009	4809-07-00	Fond du Lac	Doty Street	Bridge over East Branch Fond du Lac River	B-20-207	82' long, 2 span flat concrete slab	TLL	RTA/CPM	ALK
2009	4810-01-71	Fond du Lac	Kiel Road	Bridge over South Brance Manitowoc River	B-20-209	30' long, 1 span flat concrete slab	TLL	CPM	ALK
2009	4337-10-72	Manitowoc	USH 10	Bridge over Branch River	B-36-895	174' long, 3 span prestressed concrete girder	DLG	WDOT	ALK
2009	1500-25-71	Calumet	USH 10	Box Culvert over Unamed Branch of Spring Creek	N/A	HE concrete pipe	DLG	N/A	ALK
2008	4818-04-00	Fond du Lac	Youth Camp Road	Bridge over Milwaukee River	B-20-190	65' long, 1 span prestressed concrete girder	TLL	CPM	ALK
2007	1077-01-63	Monroe	I90/STH 27	Interchange Bridge Reconditions	B-41-83	Bridge recondition	DLG	N/A	N/A
2006	6243-06-71	Shawano	STH 47	Bridge over Herman Creek	B-58-121	35' long, 1 span flat concrete slab	DLG	CPM	ALK
2006	6243-06-71	Shawano	STH 47	Bridge over Mink Creek	B-58-122	34' long, 1 span flat concrete slab	DLG	CPM	ALK
2006	6243-06-71	Shawano	STH 47	Bridge over Slab City Creek	B-58-123	34' long, 1 span flat concrete slab	DLG	CPM	ALK
2006	6580-09-71	Shawano	STH 156	Bridge over Shioc River	B-58-124	48' long, 1 span flat concrete slab	DLG	CPM	ALK
2006	4809-03-70	Fond du Lac	Martin Road	Bridge over Canadian National Railroad	B-20-182	180' long, 3 span prestressed concrete girder	TLL	CPM	N/A
2006	4857-06-00	Fond du Lac	Reinhardt Road	Bridge over DeNeveu Creek	B-20-188	42' long, 1 span flat concrete slab	TLL	CPM	ALK
2006	4808-03-00	Fond du Lac	Minnesota Avenue	Bridge over Anderson Creek	B-20-187	46' long, 1 span flat concrete slab	TLL	CPM	ALK
2006	3823-01-70	Fond du Lac	Vielbig Road	Bridge over Seven Mile Creek	B-20-186	36' long, 1 span flat concrete slab	TLL	CPM	ALK
2006	N/A	Waupaca	CTH X	Box Culvert over Walla Walla Creek	N/A	40' long, aluminum box culvert	DLG	N/A	ALK
2005	4833-00-70	Fond du Lac	CTH HHH	Bridge over South Branch Manitowoc River	B-20-180	35' long, 1 span flat concrete slab	TLL	CPM	ALK
2005	2745-00-70	Washington	CTH M	Bridge over Cedar Creek	B-66-136	115' long, 2 span haunched concrete slab	TLL	CPM	ALK
2005	9535-02-72	Marathon	STH 97	Bridge over Baldwin Creek	B-37-369	24' long, 1 span flat concrete slab	TLL	CPM	ALK
2005	4100-05-71	Calumet	USH 151	Bridge over Stony Brook	B-8-38	30' long, 1 span flat concrete slab	TLL	CPM	ALK
2005	4100-05-71	Calumet	USH 151	Box Culvert over Unnamed Trib. To S. Br. Manitowoc R.	C-8-51	56' long, 2 cell concrete box culvert	TLL	TAG	ALK
2005	4100-05-71	Calumet	USH 151	Box Culvert over Unnamed Trib. To S. Br. Manitowoc R.	C-8-52	124' long, 2 cell concrete box culvert	TLL	TAG	ALK
2004	5514-07-71	Monroe	STH 71	Bridge over Morris Creek	B-41-254	128' long, 2 span haunched concrete slab	TLL	CPM	ALK
2003	4085-21-71	Calumet	STH 32/57	Box Culvert over Unnamed Trib. To S. Br. Manitowoc R.	C-08-53	125' long, 1 cell concrete box culvert	TLL	TAG	ALK
2002	4808-02-70	Fond du Lac	Lincoln Road	Bridge over Van Dyne Creek	B-20-160	35' long, 1 span flat concrete slab	TLL	CPM	ALK
2002	3822-00-70	Fond du Lac	Brown Road	Bridge over West Branch Fond du Lac River	B-20-161	53' long, 2 span flat concrete slab	TLL	CPM	ALK
2001	3947-04-70	Fond du Lac	CTH C	Bridge over West Branch Fond du Lac River	B-20-143	68' long, 1 span prestressed concrete girder	TLL	TAG	TLL
2000	3872-04-70	Fond du Lac	CTH Y	Bridge over Seven Mile Creek	B-20-144	50' long, 1 span flat concrete slab	TLL	TAG	TLL
2000	3881-00-71	Dodge	CTH Y (North)	Bridge over Gill Creek	B-14-147	59' long, 1 span prestressed concrete girder	TLL	TAG	TLL
2000	3881-01-71	Dodge	CTH Y (East)	Bridge over Gill Creek	B-14-149	66' long, 1 span prestressed concrete girder	TLL	TAG	TLL
1998	N/A	Fond du Lac	Pacific Street	Bridge over Silver Creek	N/A	23' long, 1 span flat concrete slab	TLL	TAG	TLL
1998	7146-07-71	Trempealeau	CTH D	Bridge over Bruce Valley Creek	B-61-149	39' long, 1 span flat concrete slab	TLL	TAG	TLL
1998	4808-01-75	Fond du Lac	Wisconsin Avenue	Bridge over Mosher Creek	B-20-0005	29' long, 1 span flat concrete slab	TLL	CPM	ALK
1997	3940-03-72	Dodge	CTH P	Box Culvert over Ashippun River	B-14-142	92' long, 2 cell concrete box culvert	TLL	TAG	ALK
1997	3940-03-73	Dodge	CTH P	Box Culvert over Ashippun River	B-14-143	115' long, 2 cell concrete box culvert	TLL	TAG	ALK
1997	4823-00-70	Washington	Mill Street	Bridge over Kohlsville River	B-66-125	41' long, 1 span prestressed concrete girder	TLL	CPM	ALK
1997	2711-02-73	Washington	Sherman Road	Bridge over Cedar Creek	B-66-124	62' long, 2 span flat concrete slab	TLL	TAG	ALK
1997	6435-01-71	Winnebago	Knapp Street	Bridge over Glatz Creek	B-70-0171	30' long, 1 span flat concrete slab	TLL	TAG	TLL
1997	6453-02-71	Winnebago	Clairville Road	Bridge over Eightmile Creek	B-70-0172	33' long, 1 span flat concrete slab	TLL	TAG	TLL
1997	9188-03-71	Marinette	Town Hall Road	Bridge over Bundy Creek	C-38-14	61' long, 2 cell concrete box culvert	TLL	CPM	TLL
1997	9056-01-71	Marinette	Third Road	Bridge over Beaver Creek	B-38-75	85' long, 2 span haunched concrete slab	TLL	CPM	TLL
1997	9255-04-71	Marinette	Twin Lakes Road	Bridge over North Branch Pike River	B-38-18	46' long, 1 span flat concrete slab	TLL	TAG	TLL
1997	7100-02-72	Monroe	CTH B	Bridge over Soper Creek	B-41-214	43' long, 1 span flat concrete slab	TLL	CPM	TLL
1997	4502-03-71	Calumet	Main Street - Chilton	Bridge over South Branch Manitowoc River	B-08-36	79' long, 2 span haunched concrete slab	TLL	TAG	TLL
1996	7366-04-71	Jackson	CTH F	Bridge over West Fork Halls Creek	B-27-126	38' long, 1 span flat concrete slab	TLL	TAG	TLL
1996	4472-03-71	Calumet	CTH Y	Bridge over Killsnake River	B-08-10	45' long, 1 span flat concrete slab	TLL	TAG	TLL
1996	3815-00-74	Dodge	Poplar Grove Road	Bridge over Union Pacific Railroad	B-14-136	142' long, 3 span prestressed concrete girder	TLL	CPM	N/A
1995	3823-00-70	Fond du Lac	Highbridge Road	Bridge over Wild Goose State Trail	B-20-127	77' long, 1 span prestressed concrete girder	TLL	CPM	N/A
1995	9248-03-71	Marinette	Caldron Falls Road	Bridge over North Fork Thunder River	B-38-59	30' long, 1 span flat concrete slab	TLL	TAG	N/A
1995	9248-04-71	Marinette	Smith Creek Road	Bridge over E&LS Railroad	B-38-69	125' long, 3 span prestressed concrete girder	TLL	TAG	N/A
1994	3815-00-71	Dodge	Bluebird Road	Bridge over C&NW Railroad	B-14-132	145' long, 3 span prestressed concrete girder	TLL	TAG	N/A
1994	5646-00-73	Green	Holstein Prarie Road	Box Culvert over Branch of Dougherty Creek	B-23-105	45' long, 2 cell concrete box culvert	TLL	TAG	N/A
1994	5716-01-72	Green	Friedig Road	Box Culvert over Gill Creek	B-23-113	47' long, 2 cell concrete box culvert	TLL	TAG	TLL
1994	5716-00-72	Green	Mortenson Road	Box Culvert over Gill Creek	C-23-62	30' long, 1 cell concrete box culvert	TLL	TAG	TLL

*CTH V (*CTH VV – National Avenue*)*

City of Fond du Lac, Fond du Lac County



Owner Reference:
Tom Janke, PE
Fond du Lac County Highway Commissioner
(920) 929-3488

Project Manager:	Tom Lanser, PE
Project Engineer:	Ben Oitzinger, PE
Stormwater/Permitting:	Andy Klemp, PE
Survey & R/W Plats:	Jay Panetti, PLS

Description

The project consists of a 0.7 mile long reconstruct of CTH V from Pioneer Road to National Avenue in the City of Fond du Lac. The project is locally funded and will be constructed with Fond du Lac County Highway Department forces.

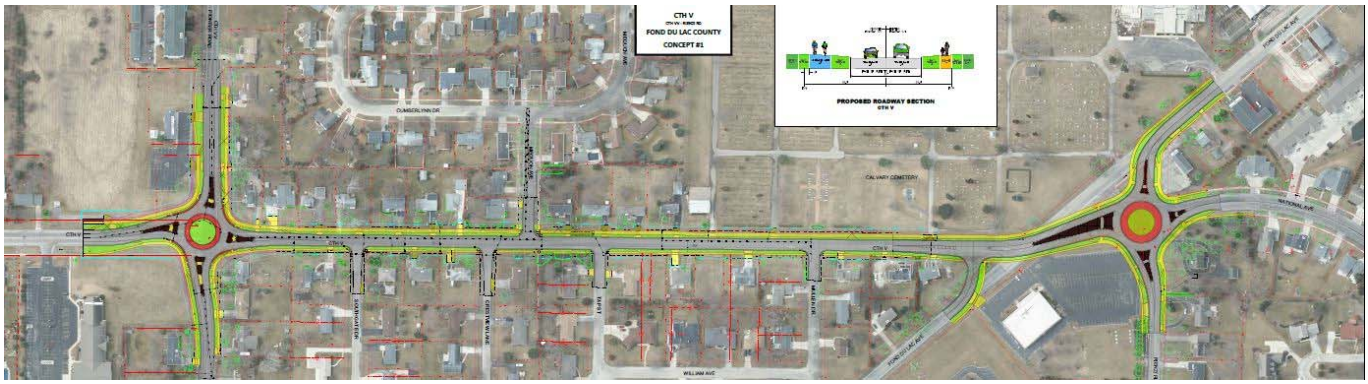
The project included a study and design phase. The study phase consisted of development and evaluation of several alternatives for the roadway typical section (urban or rural), and intersection control type and geometry at the CTH V/CTH VV and the CTH V/Fond du Lac Ave./Rienzi Rd./National Ave. intersections.

The design phase consists of the design of the preferred alternative for the project, which is an urban roadway with curb and gutter, storm sewer, sidewalk, and a shared use path. The project also includes roundabouts at the CTH V/CTH VV and CTH V/Fond du Lac Ave./Rienzi Rd./National Ave. intersections.

Due to the conversion of a rural section with ditches to an urban section with curb and gutter and storm sewer, the project includes stormwater management calculations and design to satisfy DNR's TSS reduction goals. TSS reduction is being achieved by a combination of biofilters and a regional detention pond.

The project includes extensive public involvement and business owner coordination due to the r/w acquisition, and the addition of roundabouts, sidewalks, and a shared use trail.

The project is currently being designed, with construction scheduled for 2019 and 2020 (constructed by Fond du Lac County Highway Department forces).



CTH C (*Jersey Road – USH 151*)
Dodge County

Owner Reference:
Pete Thompson, PE
Dodge County Assistant Highway Commissioner
(920) 386-3655

Project Manager:	Tom Lanser, PE
Project Engineer:	Ben Oitzinger, PE
Water Resources/Permitting:	Andy Klemp, PE
Survey & R/W Plats:	Jay Panetti, PLS

Description

The project consisted of a 2.4 mile long rural reconstruct of CTH C from the Jersey Road to the USH 151 in Dodge County. The typical section consists of 12' travel lanes with 6' shoulders (3' paved and 3' gravel). The design included an evaluation of substandard features throughout the project. This evaluation resulted in several vertical curves that were substandard for the 55 mph posted speed. In addition, the design scope included an evaluation of the CTH C / Buckhorn Road intersection, which has severe sight distance problems along CTH C and Buckhorn Road. This evaluation included multiple alternative profiles, as well as a preliminary evaluation of realigning Buckhorn Road approximately 200' to the east to improve the intersection sight distance. Ultimately, Dodge County decided to reconstruct Buckhorn Road along the existing horizontal alignment, and address the substandard sight distance with a combination of profile changes along both roadways, and improvements to the vision corners at the intersection. In addition, a large retaining wall was designed to minimize right-of-way impacts at the northeast corner of the intersection.

The project included the replacement of 6 culvert replacements along navigable waterways, which included hydrologic and hydraulic analysis of structure sizing, and DNR/Army Corps of Engineers permitting associated with the culvert replacements. The 2017 project was permitted under a joint agency general permit (less than 10,000 sf of wetland impacts), and the 2018 project was permitted under an individual agency permit. The project included a 24 parcel right-of-way plat. The design included spot locations of curb and gutter to minimize right-of-way impacts. The project was designed in 2015 and 2016, with construction occurring in 2017 and 2018 (constructed by Dodge County Highway Department forces).

CTH C (American Eagle Drive – CTH Z)
Washington County

Owner Reference:
Scott Schmidt
Washington County Highway Commissioner
(262) 335-4437

Project Manager:	Tom Lanser, PE
Project Engineer:	Jeff Chvosta, PE
Water Resources/Permitting:	Andy Klemp, PE
Survey & R/W Plats:	Jay Panetti, PLS

Description

The project consisted of the reconstruction of 1.4 miles of CTH C, through the Hamlet of Cedar Creek, in Washington County. The project includes the correction of substandard vertical alignment, replacement of the existing structure over Cedar Creek, and intersection geometry improvements.

The design included an evaluation of substandard features throughout the project. This evaluation resulted in several vertical curves and one horizontal curve that were substandard for the 55 mph posted speed. In addition, the design scope included an evaluation of the CTH C / Stoney Lane / Hillside Road intersection, which has sight distance problems and a history of crashes at the intersection, and an evaluation of the CTH C / Cedar Creek Road intersection due to the lack of delineation at the intersection. The proposed project resulted in an all-way stop at the CTH C / Stoney Lane / Hillside Road intersection, and a relocated horizontal curve and intersection geometry change at the CTH C / Cedar Creek Road intersection (see concept drawing below).

The design also included evaluation of the ditches throughout the project to ensure adequate stormwater capacity, as well as the replacement of a significant box culvert carrying CTH C over Cedar Creek.

Gremmer & Associates delivered a design that met Washington County requirements while conforming to the existing constraints of the project area by utilizing horizontal and vertical alignment changes where possible, new beam guard sections where project clear zone is limited, and slope flattening where real estate allows.

As a locally high-profile project, careful attention to public involvement was an ongoing theme throughout the design process. Several portions of the project featured areas of cultural and/or historical significance. The project was designed in 2013 through 2016, with construction completed in 2017.

CTH S (Riverside Drive – CTH DD)

New Fane, Fond du Lac County

Owner Reference:
Tom Janke, PE
Fond du Lac County Highway Commissioner
(920) 929-3488

Project Manager:	Tom Lanser, PE
Project Engineer/Lead Roadway Design:	Jeff Chvosta, PE
Stormwater/Permitting:	Andy Klemp, PE
Survey & R/W Plats:	Jay Panetti, PLS

Description

The project consisted of a 0.5 mile long reconstruct of CTH S from Riverside Drive to CTH DD in New Fane, Fond du Lac County. The design and construction of the project was locally funded.

The project consisted of a rural to urban conversion with curb and gutter, storm sewer, and realignment of the Kettle Moraine Drive intersection. The project included extensive coordination and permitting with the Wisconsin DNR due to the rural to urban conversion, as well as the close proximity of the project and the storm sewer outlets to the East Branch of the Milwaukee River.

The project had two separate storm sewer systems/outlets. The primary system utilized a flat, wide swale downstream of the outlet pipe to achieve the required 40% TSS reduction. Initially Gremmer used the transportation TSS matrix to quantify the TSS reduction, but after further coordination with DNR, the swale was modeled utilizing WinSLAMM software, which confirmed the reduction goal to gain DNR concurrence.

The project was constructed by Fond du Lac County Highway Department forces in 2017.

CTH VV, West Pioneer Rd (Hickory St to Main St); Project ID 4831-04-00
CTH VV, West Pioneer Rd (Rogersville Rd to Hickory St); Project ID 4986-00-21
CTH VV, West Pioneer Rd (Forest Ave to Johnson St)
City of Fond du Lac, Fond du Lac County

Owner Reference:
Tom Janke, PE
Fond du Lac County Highway Commissioner
(920) 929-3488

Project Manager:	Tom Lanser, PE
Project Engineer/Lead Roadway Design:	Ben Oitzinger, PE
Lead Stormwater/Drainage Engineer:	Andy Klemp, PE
Survey & R/W Plats:	Jay Panetti, PLS

Description

The CTH VV (Pioneer Road) corridor is a heavily traveled roadway (approximately 16,000 ADT) that serves as an important link connecting the western and southern areas of the City of Fond du Lac. **Project ID 4831-04-00** consisted of the design of a 0.65 mile section of CTH VV (West Pioneer Road) in the City of Fond du Lac, Fond du Lac County. The project involved reconstructing the rural 2-lane roadway to an urban, 4-lane roadway with a raised median in the western segment and a two-way left turn lane (TWLTL) in the eastern segment. Two existing signalized intersections were replaced with roundabouts, the first two in Fond du Lac County. The project included the replacement of an at-grade RR crossing with a new two-span grade separation railroad structure (CTH VV underpass), as well as a replacement single span prestressed concrete girder structure carrying CTH VV over the East Branch of the Fond du Lac River. The project also included the design of 3 different types of retaining walls. This was a very high profile project that included extensive public involvement and individual business owner meetings to gain consensus for the project. The project was constructed in 2011 - 2013. **This project was selected as the statewide winner of the "Consultant Urban Design" category at the 2014 WisDOT Transportation Improvement Conference.**

As a result of the successful completion of the previous CTH VV project, Gremmer was selected to complete the design of **Project ID 4986-00-21**, which is the adjacent segment of CTH VV to the northwest from Rogersville Road to Hickory Street in Fond du Lac. The project involved reconstructing the rural 4-lane roadway to an urban, 4-lane roadway with a raised median with storm sewer, on-street bike lanes, an off-street multi-use trail, and the replacement of the existing signalized intersection at Military Road with a roundabout. The project included relocating and combining Mercury Marine's main plant entrance and exit driveways and signalizing the new driveway location. The project also included realigning the Sullivan Drive intersection, removal of the Military Road/Rogersville Road intersection, which paved the way for the vacation of the remainder of Rogersville Road. The project was constructed in 2017. **This project was selected as the statewide winner of the "Local Program" category at the 2018 WisDOT Transportation Improvement Conference.**

Fond du Lac County once again selected Gremmer to design a third segment of CTH VV, from Forest Avenue to Johnson Street (STH 23). The project included a study and design phase. The study phase consisted of development and evaluation of several alternatives for the roadway typical section (urban or rural), and intersection control type and geometry at the Johnson Street and Home Depot Private Road intersections. The design consists of an urban roadway with curb and gutter, storm sewer, sidewalk, and a shared use path. The project also includes modification and consolidation of the commercial driveways at the north end of the project as well as a signalized intersection at the Home Depot Private Road intersection. Due to the conversion of a rural section with ditches to an urban section with curb and gutter and storm sewer, the project includes stormwater management calculations and design to satisfy DNR's TSS reduction goals. TSS reduction is being achieved by a combination of biofilters and a regional detention pond.

The project is currently in final design with construction scheduled for 2020 (locally let project).

TRANSPORTATION REFERENCES

Pete Thompson
Assistant Highway Commissioner
Dodge County Highway Dept.
211 E. Center Street
Juneau, WI 53039-1309
(920) 386-3655

Jon Edgren
Highway Commissioner
Ozaukee County Highway Dept.
410 South Spring Street
Port Washington, WI 53074
(262) 238-8335

Tom Janke
Highway Commissioner
Fond du Lac County Highway Dept.
301 Dixie Street
Fond du Lac, WI 54936
(920) 929-3488

Nathan Check
Highway Commissioner
Portage County Highway Dept.
800 Plover Road
Plover, WI 54467
(715) 345-5230

Scott Schmidt
Highway Commissioner
Washington County Highway Dept.
900 Lang Street
West Bend, WI 53090-2666
(262) 335-6881

Mr. Brian Kober
Director of Public Works
Village of Jackson
N168 W20733 Main Street
Jackson, WI 53037
(262) 677-9001

Mr. Rob Vanden Noven
Director of Public Works
City of Port Washington
100 West Grand Avenue
Port Washington, WI 53704
(262) 268-4267

Mr. Paul De Vries
City Engineer
City of Fond du Lac
160 South Macy Street
Fond du Lac, WI 54935
(920) 322-3473

GREMMER & ASSOCIATES, INC.

PROFESSIONAL SERVICES FEE SCHEDULE

2019 and 2020

Project Manager	$135.00/hour
Project Engineer / Senior Designer	$120.00/hour
Civil Engineer V	$105.00/hour
Professional Land Surveyor / Survey Crew Chief	$95.00/hour
One-man Survey Crew with GPS	$120.00/hour
Civil Engineer IV / Engineering Specialist V	$95.00/hour
Civil Engineer III / Engineering Specialist IV	$85.00/hour
Civil Engineer II / Engineering Specialist III	$80.00/hour
Civil Engineer I / Engineering Specialist II	$74.00/hour
Engineering Specialist I / Civil Engineering Technician III	$68.00/hour
Civil Engineering Technician II	$62.00/hour
Civil Engineering Technician I	$55.00/hour
Office Services	$54.00/hour
Mileage	Current IRS rate
Meals, lodging, air travel, telephone, supplies, postage	At Cost
Printing Services (In-house)	
Photocopies (black & white)	$0.10/impression
Photocopies (color)	$0.25/impression
Large Format Plots (black & white)	$1.00/S.F.
Large Format Plots (color)	$2.00/S.F.
Mylar	$2.00/S.F.
Printing Services (Outside Service)	At Cost
Expert Witness	$200.00/hour

Note: Office Services, Civil Engineering Technician, and Engineering Specialist I-III are paid time and one-half their actual wage for overtime. The respective billed rate will be approximately 19% higher than the published rate to account for the overtime rate.

GREMMER
& ASSOCIATES, INC.
CONSULTING ENGINEERS

93 S. Pioneer Road
Suite 300
Fond du Lac, WI 54935
Phone (920) 924-5720
Fax (920) 924-5725

June 13, 2019

Green Lake County Highway Commission
570 South Street
Green Lake, WI 54941

Attention: Barry Mashuda
Highway Commissioner

Subject: Proposal for On-Call Engineering Services
Green Lake County

Dear Mr. Mashuda:

Thank you for the opportunity to provide on-call engineering services to the Green Lake County Highway Department. We have developed a strong reputation for providing quality work and excellent service for numerous county highway departments statewide, including several that neighbor Green Lake County. We look forward to providing you the same quality work and personal service that you can expect when working with Gremmer & Associates.

The following is Gremmer & Associates' proposal to provide general engineering services to the Green Lake County Highway Department. Hereinafter, the Green Lake County Highway Department will be referred to as the OWNER, and Gremmer & Associates, Inc., the ENGINEER.

SCOPE OF SERVICES

The general scope of work is to provide on-call engineering services to the Green Lake County Highway Department on an as needed basis.

COMPENSATION

Gremmer & Associates will bill the Green Lake County Highway Department monthly on a time and materials basis, in accordance with the attached Professional Services Fee Schedule, dated May 1, 2019 to December 31, 2020, labeled Exhibit A. Invoices shall be paid by the Green Lake County Highway Department within 30 days of receipt of said invoice. The rates in the Professional Services Fee Schedule will remain unchanged until December 31, 2020, in which time they may be updated.

GENERAL TERMS & CONDITIONS

CONSULTANT services will be performed in accordance with the attached General Terms and Conditions, dated May 1, 2019 to December 31, 2020, labeled Exhibit B.

AUTHORIZATION AND TIMING

The receipt of a signed copy of this proposal shall be considered as authorization to proceed with the services described.

If this proposal is acceptable, please sign below and return one copy to me for our files.

Sincerely,

Thomas Lanser, PE
President
Gremmer & Associates, Inc.

For the OWNER: Green Lake County Highway Department

_____ _____

Signature Date

_____

Printed Name

_____

Title

Exhibit A

GREMMER & ASSOCIATES, INC.
CONSULTING ENGINEERS

PROFESSIONAL SERVICES FEE SCHEDULE

May 1, 2019 to December 31, 2020

Project Manager	$135.00/hour
Project Engineer / Senior Designer	$120.00/hour
Civil Engineer V	$105.00/hour
Professional Land Surveyor / Survey Crew Chief	$95.00/hour
One-man Survey Crew with GPS	$120.00/hour
Civil Engineer IV / Engineering Specialist V	$95.00/hour
Civil Engineer III / Engineering Specialist IV	$85.00/hour
Civil Engineer II / Engineering Specialist III	$80.00/hour
Civil Engineer I / Engineering Specialist II	$74.00/hour
Engineering Specialist I / Civil Engineering Technician III	$68.00/hour
Civil Engineering Technician II	$62.00/hour
Civil Engineering Technician I	$55.00/hour
Office Services	$54.00/hour
Mileage	Current IRS rate
Meals, lodging, air travel, telephone, supplies, postage	At Cost
Printing Services (In-house)	
Photocopies (black & white)	$0.10/impression
Photocopies (color)	$0.25/impression
Large Format Plots (black & white)	$1.00/S.F.
Large Format Plots (color)	$2.00/S.F.
Mylar	$2.00/S.F.
Printing Services (Outside Service)	At Cost
Expert Witness	$200.00/hour

Note: Office Services, Civil Engineering Technician, and Engineering Specialist I-III are paid time and one-half their actual wage for overtime. The respective billed rate will be approximately 19% higher than the published rate to account for the overtime rate.

Exhibit B

GENERAL TERMS AND CONDITIONS

May 1, 2019 to December 31, 2020

1. This agreement, upon execution by both parties hereto, can be amended only by written instrument signed by both parties. As the project progresses, facts uncovered may reveal a change in direction, which may alter the scope. Gremmer & Associates, Inc., will promptly inform the Owner in writing of such situations so that changes in this agreement can be negotiated as required. In the event the Owner orders additional work to be performed and a written instrument is not executed by both parties, the Owner shall be responsible for all costs associated with the additional work.

2. Costs and schedule commitments shall be subject to renegotiation for delays caused by the Owner's failure to provide specified facilities or information, or for delays caused by unpredictable occurrences, including without limitation, fires, floods, riots, strikes, unavailability of labor or materials, delays or defaults by suppliers of materials or services, shutdowns, acts of God or the public enemy, or acts or regulations of any governmental agency. Temporary delay of services caused by any of the above, which results in additional costs beyond those outlined, may require renegotiation of this agreement.

3. Payment is due to Gremmer & Associates, Inc., upon 30 days of receipt of the invoice for professional services rendered. Failure to make any payment when due is a breach of this Agreement and will entitle Gremmer & Associates, Inc., at its option, to suspend or terminate the Agreement and the provisions of the Scope of Work. Interest of 1.5 percent per month (18 percent per annum) will accrue on accounts overdue by 30 days.

4. The Owner shall make available to Gremmer & Associates, Inc., all relevant information or data pertaining to the project which is required to perform the Scope of Work.

5. Gremmer & Associates, Inc., will provide and exercise the standard of care, skill and diligence required by customarily accepted professional practices normally provided in the performance of the services at the time and the location in which the services were performed.

6. Gremmer & Associates, Inc., will maintain insurance coverage in the following amounts:

Worker's Compensation	Statutory
General Liability	
General Aggregate	$2,000,000
Operations / Injury	$1,000,000
Automobile Liability	
Liability / Injury	$1,000,000
Property Damage	Value or Repair
Professional Liability Insurance	$1,000,000
Umbrella Liability Insurance	$2,000,000

7. Termination of the agreement by the Owner or Gremmer & Associates, Inc., shall be effective upon seven (7) days written notice to the other party. The written notice shall include the reasons and details for termination. Gremmer & Associates, Inc., will prepare a final invoice showing all charges incurred through the date of termination. The Owner agrees to pay Gremmer & Associates, Inc., for the services performed to the date of termination.

8. Gremmer & Associates, Inc., intends to serve as the Owner's professional representative for those services as defined in this agreement and to provide advice and consultation to the Owner as a professional. Any opinions of probable project costs, approvals, and other decisions made by Gremmer & Associates, Inc., for the owner are rendered on the basis of experience and qualifications and represent our professional judgment. The Owner recognizes that Gremmer & Associates, Inc., does not have control over the costs of labor, materials or equipment, or over competitive bidding methods. Accordingly, Gremmer & Associates, Inc., does not make any commitment or assume any duty to assure that bids or negotiated prices will not vary from any cost opinions prepared by Gremmer & Associates, Inc.

9. This agreement shall not be construed as giving Gremmer & Associates, Inc., the responsibility or authority to direct or supervise construction means, methods, techniques, sequence, or procedures of construction selected by contractor or subcontractors, or the safety precautions and programs incident to the work of the contractors or subcontractors.

10. The Owner releases Gremmer & Associates, Inc., from any liability and agrees to defend, indemnify and hold Gremmer & Associates, Inc., harmless from any and all claims, damages, losses, and/or expenses, direct or indirect, or consequential damages, including but not limited to attorney’s fees and charges, and court and arbitration costs, arising out of, or claimed to arise out of, the performance of the services, except liability arising from the negligence of Gremmer & Associates, Inc.

GREMAND-01 HUSNI1

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 12/07/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Baer Insurance Services, Inc. 9701 Brader Way Madison, WI 53562	PHONE (A/C, No, Ext): (608) 830-5800	FAX (A/C, No): (608) 830-5877
	E-MAIL ADDRESS: baer@baerinsurance.com	

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Sentinel Ins Company Ltd.	11000
INSURER B : Hartford Casualty Insurance Company	29424
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED

Gremmer and Associates
Pioneer Group of FondDuLac Inc
120 Wilshire Blvd North
Stevens Point, WI 54481

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 1,000,000
	CLAIMS-MADE X OCCUR	X		83SBAPV0015	11/01/2018	11/01/2019	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 1,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	X POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
A	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO	X		83UECJG1048	11/01/2018	11/01/2019	BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
A	X UMBRELLA LIAB X OCCUR						EACH OCCURRENCE	$ 2,000,000
	EXCESS LIAB CLAIMS-MADE	X		83SBAPV0015	11/01/2018	11/01/2019	AGGREGATE	$ 2,000,000
	DED X RETENTION $ 10,000							$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						X PER STATUTE OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N (Mandatory in NH)	N / A		83WBCBT4512	11/01/2018	11/01/2019	E.L. EACH ACCIDENT	$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 500,000
							E.L. DISEASE - POLICY LIMIT	$ 500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

For Bid Purposes Only
Gremmer and Associates
120 Wilshire Blvd North
Stevens Point, WI 54481

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 09/19/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:	
Willis of Illinois, Inc. c/o 26 Century Blvd P.O. Box 305191 Nashville, TN 372305191 USA	PHONE (A/C, No, Ext): 1-877-945-7378	FAX (A/C, No): 1-888-467-2378
	E-MAIL ADDRESS: certificates@willis.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Liberty Insurance Underwriters Inc	19917
INSURED Gremmer & Associates, Inc. 120 Wilshire Boulevard North Stevens Point, WI 54481	INSURER B :	
	INSURER C :	
	INSURER D :	
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** W7570213 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$
	☐ CLAIMS-MADE ☐ OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$
							MED EXP (Any one person)	$
							PERSONAL & ADV INJURY	$
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$
	☐ POLICY ☐ PRO-JECT ☐ LOC						PRODUCTS - COMP/OP AGG	$
	OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	☐ ANY AUTO						BODILY INJURY (Per person)	$
	☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	☐ UMBRELLA LIAB ☐ OCCUR						EACH OCCURRENCE	$
	☐ EXCESS LIAB ☐ CLAIMS-MADE						AGGREGATE	$
	☐ DED ☐ RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						☐ PER STATUTE ☐ OTH-ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ (Mandatory in NH)	N / A					E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Professional Liability			AEXNYABJIF5002	09/25/2018	09/25/2019	Per Claim	$1,000,000
							Aggregate	$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

For Proposal Purposes

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

SR ID: 16751848 BATCH: 873356

KBIS will do bridge inspection only.
Too far away for on-call services.

W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

KBIS

Green Lake County 2019/2020

Bridge Inspection/Program Manager

KBIS will provide the following contract requirements to Green Lake County. KBIS will inspect all the "local" structures during the 2019-2020 calendar years.

- KBIS will provide 2 qualified inspectors at all times for all bridge inspections except UWD. This ensures safety of the inspectors.
- KBIS will perform the Underwater Dives directly if needed during the cycle. The team will be 3 people minimum per structure.
- KBIS will provide program manager services when required. We provided a schedule below. KBIS doesn't charge by the call, we will only use this item when appropriate. Traditionally this is when the Commissioner formally requests a meeting, FHWA review, and WisDOT review. Traditionally this adds up to only a few hours.
- KBIS will provide all team members that are Team Leader/Program Manager Qualified.
- KBIS will provide the Standard WisDOT program manager forms for the county to sign upon award.
- KBIS is very familiar with the WisDOT inspection program. We will provide the photos required of the views, and/or any CS3/4 items that are new or changed. If any bridges are checked for re-rating on the inspection form, we will provide the county timely notification, plus collect the data needed for Central Office to complete the task. We will input all inspections into HSIS.

W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

- We will deliver 1 hard copy of all inspections to the county, plus one electronic copy. We will also provide a summary/maintenance list for each bridge to the owner, and the county.
- All signs will be inspected per WisDOT standards.
- KBIS will review/update/create the Scour POA.
- If traffic control is needed, it will be provided by Green Lake County Highway. If the bridge requires a snooper inspection, then traffic control is required. We don't anticipate any need for this item at this time.
- KBIS will conduct the snooper inspections with the WisDOT reach all truck. KBIS is assumes the reach all truck will be provided at no cost.
- KBIS has an extensive staff of Professional Engineers and other very qualified inspectors.
- KBIS as part of the QC/QA process, of WisDOT, will perform QC/QA of the KBIS inspection team to ensure maximum quality.
- KBIS has more than enough capacity to complete all the bridges scheduled for 2019/2020 in Green Lake County, by the time they are due.

W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

Costs:

All inspections, excluding UW-Dives, but including SIA. One cost per structure no matter the amount of requirements. $150/bridge

39 bridges x $150/bridge = $5,850

Underwater dives, None are Scheduled 2019 or 2020 $850/bridge

Program Manager fee for meetings, and the rest of the description above. $150/hour

Any additional work under the groupings above will be at the same rate listed.

KBIS Approval:

William S. Knaack Jr., Owner KBIS. Date

6/9/19

W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

KBIS

Current Clients for Bridge Inspections

Program Manager/Inspectors for the following:

Florence, Forest, Iron, Langlade, Lincoln, Oneida, Price and Vilas County.

Inspectors for Marathon County.

We will also be performing underwater inspection in 8 other counties in Northern Wisconsin.

Qualifications:

William S. Knaack Jr., P.E.
Co-Owner/Project Manger
Civil Engineer
Conducting Bridge Inspections since 2004
Underwater Bridge Inspections since 2004
Safety Inspection of In-Service Bridges 2004
NHI Fracture Critical Course 4/2014
NHI Underwater Bridge Inspection 9/2011
WisDOT refresher course 2011
WisDOT refresher course 2014
WisDOT North Central Region Refresher 2016
Program Manager Qualified
Team Leader Qualified

William S. Knaack Sr.
Co-Owner

W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

Retired Price County Highway Commissioner
Conducting Bridge Inspections since1982
Underwater Bridge Inspections since 1990
Safety Inspection of In-Service Bridge, 1991
WisDOT refresher course 2011
WisDOT refresher course 2014
WisDOT North Central Region Refresher 2016
Program Manager Qualified
Team Leader Qualified

Mike Bigelow, P.E.
Civil Engineer
Conducting Bridge Inspections since 2002
Underwater Bridge Inspections since 2012
Safety Inspection of In-Service Bridge 2002
NHI Underwater Bridge Inspection 2/2016
WisDOT refresher course 2014
WisDOT North Central Region Refresher 2016
Program Manager Qualified
Team Leader Qualified

Adam Garrison, P.E.
Team Member
Civil Engineer
Certified Tower Climber
Conducting Bridge Inspections since 2008
Safety Inspection of In-Service Bridges 2008
Conducting Underwater Inspections since 2008
NHI Underwater Inspection Course 2/2016
Team Leader Qualified

Pat Hampston, P.E.
Team Member
Civil Engineer
Conducting Bridge Inspections since 2014
Safety Inspection of In-Service Bridges 2015
Team Leader Qualified

Justin Blake, P.E.
Team Member

W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

KBIS

Civil Engineer
Conducting Bridge Inspections since 2016
Safety Inspection of In-Service Bridges 2016
Team Leader Qualified

References:

Jim Greisbach, Highway Commissioner
Marathon County
1430 West St.
Wausau, WI 54401
715-261-1800
James.Griesbach@co.marathon.wi.us

Jeff DeMuri, Highway Commissioner
Florence County
5471 CTH N
Florence, WI 54121
715-528-4253
jdemuri@co.florence.wi.us

Don Grande, Highway Commissioner
Price County
704 North Lake Avenue
Phillips, WI 54555
715-339-3081 EXT. 2
don.grande@co.price.wi.us

W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

KBIS

Past Performance

KBIS and Previous

History/Description:

Prior to the creation of KBIS, the group worked as individual contractors, but as a team. It is not until 2014 that the owners decided to go with a more formal process of being a LLC. We have members that were members of the original dive operations for the Wisconsin Department of Transportation. Our team has the capabilities of Routine, Underwater Profile, Underwater Dive, SIA, and Fracture Critical. We are all Team Leaders and Program Manager capable. Several Members of the Team have performed inspection in several states.

Clients:

Lincoln County and Townships: Underwater Inspections. 7 bridges. Served since 1991.

Price County and Townships: Routine and Underwater Inspections. Approx. 58 bridges. Served since 1982. Prior Program Manager.

Marathon County and Townships: Routine, Fracture Critical, and Underwater Inspections, approx. 370 bridges, served since 2014.

Oneida County: Underwater Inspections. 7 bridges. Served since 2017.

Florence County and Townships: Routine and Fracture Critical Inspections since 2010. Approx. 8 bridges. Program Manager since 2010.

Forest County and Townships: Routine Inspections since 2010. Approx. 21 bridges. Program Manager since 2010.

Iron County and Townships: Routine and Underwater Inspections since 2010. Approx. 26 bridges. Program Manager since 2010.

W7218 Hickory Lane
Phillips, WI 54555
wm.kbis@gmail.com
715.820.0095

Vilas County and Townships: Routine and Underwater Inspections since 2010. Approx. 14 bridges. Program Manager since 2010.

Green Lake County: Underwater Inspections since 2014.

Waushara County: Underwater Inspections since 2014.

Ashland County: Underwater Inspections since 2014.

Pierce County: Underwater Inspections since 2012.

Bayfield County: Underwater Inspections since 1991.

Green Lake County: Underwater Inspections since 2006.

Burnett County: Underwater Inspections since 1991.

City of Eau Claire: Underwater Inspections since 1991.

Clark County: Underwater Inspections since 2014.

Washburn County: Underwater Inspections since 1991.

Shawno County: Underwater Inspections 2011.

Rusk County: Fracture Critical Inspections since 2014.

Langlade County: Fracture Critical and Underwater Inspections since 2008.

Ashland County: Underwater Inspection since 2015.

Dane County: Underwater Inspection, 2014.

WESTBROOK
Associated Engineers, Inc.

619 East Hoxie St. | P.O. Box 429 | Spring Green, WI 53588
P: (608) 588-7866 | F: (608) 588-7954 | www.westbrookeng.com

June 17, 2019

Green Lake County Highway Department
570 South Street
Green Lake, WI 54941

Attn: Barry Mashuda, County Highway Commissioner

RE: On-Call Engineering Services

Mr. Mashuda:

Westbrook Associated Engineers, Inc. is pleased to submit this Statement of Qualifications for design, construction and bridge inspection services. Our team of engineers and technicians is excited about this opportunity to serve Green Lake County. Westbrook is highly qualified for this work and offers the following advantages to the County:

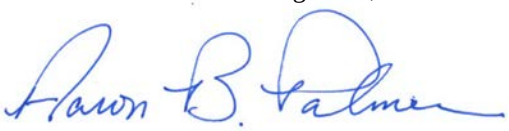
Organization Capabilities
Westbrook was started in 1974 as a heavy civil engineering firm and has been designing roadways and bridges for municipalities, counties and the state since that time. This lasting experience and relationships in the industry has put Westbrook on the map as an industry leader. Westbrook has won awards for roadway design, construction administration, and bridge design including the Federal Highway Administration Award for Excellence in Bridge Design. No other firm, large or small, in the State of Wisconsin has won this award!

Staff Qualifications
Our staff has designed and inspected hundreds of road and bridge projects throughout the state and has specific experience on every type of work the County may need. We have worked on a wide range of projects from small local project through federal mega projects. We are also strong in survey as well as in-service bridge inspection which is a strong suit of ours having completed this type of work throughout the state.

Communication
Westbrook understands that proactive communication with the County and public is what makes a project successful. Our staff will keep you informed of every milestone throughout the duration of your projects. This proactive approach will make delivery of the projects a success for all stakeholders.

Availability
Westbrook's Bridge design group is just coming off of the multi-year IH 39 Central Segment – Structures Design. This means we have numerous seasoned bridge designers available now. Our bridge designers are working on various local program and state bridge projects but have capacity to add multiple local program bridges with ease. Our survey and roadway design staff similarly have availability to jump right into any projects that arise and are at roughly 50% workload. There is no better time than now for Westbrook to add additional projects for our team to take the lead on. This allows Westbrook to put the citizens of Green Lake County as our top priority.

Sincerely,
Westbrook Associated Engineers, Inc.



Aaron Palmer, P.E., Vice President
Phone: 608-588-7866
Email: apalmer@westbrookeng.com
Address: 619 E. Hoxie Street, PO Box 429, Spring Green, WI 53588

FIRM INFORMATON

Westbrook Associated Engineers, Inc.
619 East Hoxie Street
PO Box 429
Spring Green, WI 53588
P: 6908-588-7866

Contact Person: Aaron Palmer, PE

About Westbrook

Westbrook Associated Engineers, Inc. is a locally owned consulting engineering firm that was established in 1974. Our home office is located in Spring Green, Wisconsin and we have recently opened an office in Appleton, Wisconsin to service the Fox Valley area. We excel in transportation engineering and highway, municipal and structural design and have designed hundreds of local roads and bridges over the years. We also provide construction engineering, construction inspection and management, forensic investigation, materials testing and surveying services. Westbrook's staff of 25 professionals will ensure that your project receives the attention that is needed to move it from conception to completion in a hassle-free manner. The staff for your project is highly experienced. Westbrook has won the Federal Highway Administration Award for Excellence in Bridge Design. ***No other firm, large or small, in the State of Wisconsin has won this award.*** Westbrook has also won awards for roadway design and construction administration on various projects. The project team will ensure you are completely satisfied with the entire design process and ultimately your projects and that they are built within budget.

Our proactive project management results in cost effective project delivery. We put the right resources to the project at the right times. We have recently been very successful on projects that require a cost proposal due to our efficient project delivery. On our most recent municipal bridge design for the City of Baraboo our cost proposal was more than 25% below our competitors. We have a focus on keeping costs contained.

Construction Administration/Inspection

Westbrook has managed construction administration projects ranging from small local program projects through interstate work. We are managing local program projects for local municipalities in multiple counties throughout the state for the 2019 construction season. They include large and small bridge replacements as well as roadway rehabilitation and replacement projects.

In-Service Bridge Safety Inspection

Westbrook has been involved with inspecting bridges for various counties for decades. Work includes pre-inspection cycle coordination meetings, inspections, report completion, recommendations, and a final close-out meeting. We have multiple staff certified to inspect bridges. Our staff provides professional engineers with knowledge of inspection but also understands the design and construction of bridges. We can rate bridges independently and also complete hydrology and hydraulics calculations. We have the capability to be program manager as well.

We pride ourselves on getting the inspections completed and entered into the HSIS system on time, in the month required.

Westbrook has investigated the required inspections for Green Lake County in 2019/20 and provided an attached cost schedule for each of the required inspection tasks. ***See Exhibit G – Bridge Inspection Proposal.***

Transportation Design

Westbrook can take a roadway or bridge design from concept through construction supplying engineering for all aspects of the project. We coordinate with the owner to scope the project appropriately and produce the most cost-effective design. We start with survey then move through design working with you throughout the process. We complete agency and utility coordination and keep open lines of communication. We produce plans, specifications, estimates, and right-of-way plats and then put the project out to bid. As noted above we are also capable of taking any transportation project through construction.

The project design goal is to complete the project on time and within the original contract with zero amendments. We also strive to produce plans that are constructible and produce zero change orders during construction.

Recently our IH 39 Rock River Bridges won the 2019 WisDOT Excellence in Highway Design Award.

Roadway Rating & Analysis

Westbrook has completed full reviews of all roadways within Townships and provided an independent review and rating for each roadway. Reports were developed with the findings and recommendations as well as a multi-year roadway improvement program recommendation.

All current PASER and WISLR inputs were reviewed for accuracy and recommended revisions provided to the Towns.

Survey

Westbrook has two Professional Land Surveyors on staff and can produce right-of-way and transportation project plats. We have the latest GPS and Robotic Total Stations to complete the work efficiently and keep costs down.

Technical Approach & Project Understanding

Westbrook is confident in delivering all services requested. We are a full-service engineering firm and provide all of the requested services in-house.

A complete list of our services provided is included as Exhibit B – Service List.

PROJECT TEAM

Westbrook's Project Team
Following is a brief introduction of a few of our key staff members.
(*Resumes for key staff are attached – See Exhibit C.)

Aaron Palmer, P.E.
Mr. Palmer is the senior Transportation Project Manager, managing a variety of bridge and roadway projects for various Cities, Townships and Counties throughout Wisconsin. Aaron offers over ***20 years of experience*** in all aspects of transportation design and construction. Aaron brings ***strong leadership*** and management skills to the table developed during his service as an active duty officer in the United States Army. Aaron has ***extensive knowledge of the FDM and PS&E process*** and successfully implementing these processes in the development of plans for both urban and rural transportation projects. He is also very familiar with all aspects of project delivery following the WisDOT Facilities Development Manual (FDM) process. ***Aaron was the Project Manager on the recently completed FLAP design*** in Russell Township, Bayfield County. **Roadway Design, Bridge Design, Bridge Inspections, Construction Administration**

Erich Masiarchin, P.E. (availability: 75%)
Mr. Masiarchin is the senior Transportation Project Manager, managing a variety of bridge and roadway projects for various Cities, Townships and Counties throughout Wisconsin. Erich has **over 19 years of experience** in all aspects of bridge and roadway design and construction. He is also very familiar with all aspects of project delivery following the WisDOT Facilities Development Manual (FDM) process. **Roadway Design, Bridge Design, Bridge Inspections, Construction Administration**

Jeff Koch, P.E. (availability: 55%)
Mr. Koch is the Chief Structural Engineer at Westbrook and has over **30 years of professional experience** designing bridges. In addition to developing structural design plans, Mr. Koch also serves as a construction advisor for a nationwide bridge contractor. Jeff has completed hundreds of bridge designs of varying sizes and types. **Bridge Design, Bridge Inspections**

Kerry Knutson
Mr. Knutson is an Assistant Project Manager / Senior Design Technician in Westbrook's transportation design group. Kerry has ***nearly 30 years of* experience** in drafting and plan development of transportation projects for WisDOT, counties and municipalities. Kerry implements the latest geometric design applications in AutoCAD Civil3D in accordance with WisDOT standards ***specializing in improvements to highway geometrics, intersection design, roadside hardware (beam guard), signing,*** pavement marking ***and spot safety improvements*** to name a few.
Roadway Design, Bridge Design

Erik Meyer, P.E.
Mr. Meyer is a transportation engineer in Westbrook's transportation design group. Erik has experience in rural reconstruction and reconditioning project design and plan development. Erik has been the project engineer on various recondition and reconstruction projects and is currently wrapping up work as the project engineer on a rural mill and overlay with guardrail replacement very similar to your CTH B project. Erik recently ***attended the WisDOT Hybrid Roadside Design*** course which emphasizes identifying hazardous roadside conditions and implementing the appropriate safety feature. **Roadway Design, Bridge Design, Construction Administration**

Nick Brey, P.L.S.
Mr. Brey is a ***multi-talented engineering technician*** for Westbrook's transportation design group. Nick performs many duties for Westbrook to include field design survey and CAD drafting. Nick is one of our lead Civil3D designers and will typically perform his own field survey and download the data into Civil3D to begin plan development. ***His efficiency is a direct cost benefit to the Client***. Nick also serves as a project leader on construction administration and inspection projects. Nick has extensive experience in the field that correlates directly to being a better designer and making plans more constructible. **Roadway Design, Bridge Design, Survey, R/W Plats, Construction Administration**

Mike Goebel, P.L.S.
Mr. Goebel is an experienced surveyor with extensive knowledge of design surveys and plat development. As a registered land surveyor with ***over 40 years of professional experience*** Mike has seen it all. Mike has retired from Westbrook but works in a part-time capacity to assist our current R/W staff in the development of transportation project plats and right of way plats for Westbrook projects. **Survey, R/W Plats, Construction Administration**

Additional Staff
The above listed individuals are the key staff members dedicated to your project. They will be actively involved with the production of your project throughout the design phase. In addition to their dedication to your project, Westbrook has 20 other engineers and technicians that will keep your project on time and on budget.

As your Consultant, Westbrook will commit the necessary staff and labor to keep your project on schedule.

RECENT PROJECT EXPERIENCE/KNOWLEDGE & EXPERTISE

Project ID: 5550-01-60, STH 80, Richland County

The STH 80 project is located from the north end of the Wisconsin River Bridge south of STH 60 northerly to CTH RC just south of Richland Center in Richland County, Wisconsin. The overall project length is 9.79 miles. The section of roadway from STH 60 to CTY Y will be milled 2" and overlaid with 3.5" of new Hot Mix Asphalt (HMA). The section of roadway from CTH Y to CTY RC will be milled 2" and overlaid with 2" of HMA. Also, as part of this project, areas with existing beam guard from STH 60 to CTH Y will be replaced with new MGS beam guard.

This rural project includes the following:

- Rural Mill and Overlay
- Beam Guard Replacement
- Signing Plan
- Pavement Marking Plan
- Section 106 Coordination

Client Reference:
Daniel Kleinertz, P.E.
WisDOT Project Manager
SW Region La Crosse
(608) 789-5709

Westbrook's Project Team:
Project Manager – Aaron Palmer, P.E.
Project Engineer – Erik Meyer, E.I.T
Sr. Design Tech. – Kerry Knutson
Design Tech. / Surveyor – Nick Brey, P.L.S.

NOTE: This project was just completed for a February 1, 2019 PS&E.

Project ID: 8357-01-72, Little Sand Bay Road, Bayfield County (FLAP Project)

The Little Sand Bay Road project is a ***Federal Land Access Program (FLAP)*** contract that was managed through the WisDOT Northwest Region Local Program. The project is on one of the northernmost roads in Wisconsin that terminates at the Apostle Island National Lakeshore. The existing roadway consists of two 11' lanes with 2' gravel shoulders. The new roadway was designed to have two 11' lanes with 3' paved shoulder and 1' gravel shoulder. Westbrook was also responsible for the R/W plat for various real estate acquisitions at the culvert pipe outfalls.

This rural project includes the following:

- Pulverize and Relay
- Culvert Replacement
- Culvert Lining
- R/W Plat
- Pavement Marking

Client Reference:
Rocky Tribovich
Town of Russell
Bayfield County
(715) 779-5338

Westbrook's Project Team:
Project Manager – Aaron Palmer, P.E.
Project Engineer – Erik Meyer, E.I.T
Sr. Design Tech. – Kerry Knutson
Design Tech. / Surveyor – Nick Brey, P.L.S.

Project ID: 3360-09-72, STH 175, Washington County

This project is a mill and overlay with redesign / reconstruction of all intersections along the 9-mile-long section of STH 175 in Washington County. The roadway included both rural and urban cross sections. There were also numerous sections of STH 175 that required full reconstruction in order to upgrade poor highway geometrics. This project followed the FDM and PS&E process and Westbrook was the prime consultant responsible for managing numerous subconsultants as well as all agency coordination to include multiple utility companies, the WisDNR and the Corps of Engineers to name a few.

Westbrook redesigned several intersections where approach angles were not up to present day standards. The intersections were also upgraded by adding turning lanes and bypass lanes. A multilane roundabout was added at the intersection of Lannon Road and STH 175. Westbrook designed new beam guard for numerous locations along the corridor due to existing steep slopes.

- Storm Sewer and Rural Drainage Design
- Pavement Design
- New Beam Guard
- Intersection Upgrades
- Multilane Roundabout
- Construction Staging Plans
- Retaining Walls (Gravity and Soldier Pile)
- Structures (Box Culvert)
- Pavement Marking & Signing Plans
- Trans 75 Accommodations

Westbrook's Project Team**:**
Project Manager – Aaron Palmer, P.E.
Sr. Designer – Kerry Knutson
Design Engineer – Erik Meyer, E.I.T.
Design Technician – Nick Brey, P.L.S.
Survey – Mike Goebel, P.L.S.

Client Reference:
Doug Cain, P.E.
WisDOT SE Region
(262) 548-5603

Project ID: 5589-01-73, STH 133, Grant County

The STH 133 project was a rural mill and overlay project. The project had a net centerline length of 9.78 miles and is located in northern Grant County along the Wisconsin River. The project widened the existing shoulder throughout the project from a 3' paved shoulder to a 3' paved with 1' base aggregate shoulder. Extensive MGS guardrail was added to the project to limit impacts to existing slopes in the environmentally sensitive area along the Wisconsin River and all warning signs were updated and replaced.

- Extensive Agency Coordination
- New Beam Guard
- Intersection Upgrades
- Rural Drainage Design
- Pavement Marking & Signing Plans

Westbrook's Project Team:
Project Manager – Aaron Palmer, P.E.
Designers – Kerry Knutson, Erik Meyer, E.I.T.
Surveyor – Mike Goebel, P.L.S

Client Reference:
Tim Maedke, P.E.
WisDOT SW Region
(608) 789-6317

Project ID: 5542-03-00, STH 27, Crawford County

This project included the milling and resurfacing 4 miles of STH 27 between Seneca and Mount Sterling, Wisconsin. It also included new beam guard, pavement marking and widened gravel shoulders. Because some side-slopes were steepened as a result of this widening, Westbrook designed a benching detail to stabilize these steepened slopes so that Right-of-Way acquisition would not be required.

This rural project included the following:

- Rural Drainage Design
- Pavement Design
- New Beam Guard
- Pavement Marking & Signing Plans
- Intersection Improvements

Westbrook's Project Team:
Design Engineer – Aaron Palmer, P.E.
Sr. Designer – Kerry Knutson
Surveyor – Mike Goebel, P.L.S

Client Reference:
Scott Lawry, P.E.
WisDOT SW Region
(608) 789-6317

Project ID: 5255-01-60, STH 23, Iowa County

The STH 23 project included both rural pavement replacement and rural mill and overlay plans. The total project was 6 miles in length. Unique features included a failing cattle pass that was also needed for drainage. The area was analyzed and the cattle pass was lined and grouted to maintain traffic and maintain existing drainage patterns. The construction schedule was planned to avoid the busy tourist season which was of concern to the local businesses and property owners. Westbrook also designed new beam guard to improve safety along the roadway.

Westbrook's Project Team:
Project Manager – Aaron Palmer, P.E.
Design Engineer – Alex Bromley, P.E.
Design Technician – Kerry Knutson
Design Technician – Nick Brey
Surveyor – Mike Goebel, P.L.S

Client Reference:
Bill Strobel, P.E.
WisDOT SW Region
(608) 242-8009

Project ID: (county project) CTH G, Lafayette County

CTH G, located in Lafayette County, was a rural 2-lane roadway with substandard horizontal and vertical alignments. The existing design speed was 30 mph. The existing roadway consisted of 11.5-foot lanes and 2 - 4-foot shoulders. Westbrook redesigned approximately 4000 feet (0.76 miles) of the road and upgraded it to a 50-mph design speed. The new roadway consists of 12-foot lanes and 6-foot shoulders. Westbrook developed preliminary and final road plans and a Right-of-Way Plat for this project.

This rural project included the following:

- Rural Drainage Design
- Pavement Design
- New Beam Guard
- Pavement Marking & Signing Plans

Client Reference:
Tom Jean, Commissioner
Lafayette County Highway Dept.
(608) 776-4919

Westbrook's Project Team:
Project Manager – Aaron Palmer, P.E.
Design Technician – Mike Coleman
Design Technician – Nick Brey
Surveyor – Mike Goebel, P.L.S

RECENT BRIDGE DESIGN PROJECT EXPERIENCE

- CTH H, Mill Creek Bridge, P-25-0041, Iowa County – Three span haunched slab bridge.
- 13th Avenue, Pike River Bridge, B-30-0013, Kenosha County – Two span haunched slab bridge.
- Covered Bridge Rd, Horse Creek Bridge, P-52-0189, Richland County – Single span flat slab bridge.
- CTH WW, Seymour Creek Bridge, B-62-0995, Vernon County – Single span flat slab bridge.
- CTH H, Bass Creek Bridge, B-53-0099, Rock County – Two span haunched slab bridge.
- CTH Z, Billings Creek Bridge, B-62-0243, Vernon County – Single span flat slab bridge.
- CTH B, Bear Creek Bridge, B-52-0277, Richland County – Two span flat slab bridge.
- CTH Y, Cambell Ditch Bridge, B-42-0100, Oconto County – Single span flat slab bridge.
- River Lane Road, Regan Branch Bridge, B-22-0281, Grant County – Single span flat slab bridge.

See Exhibit A –References for additional client contact information.

ATTACHMENTS

Exhibit A	**References**
Exhibit B	**List of Services**
Exhibit C	**Resumes**
Exhibit D	**2019/20 Fee Schedule**
Exhibit E	**Standard Agreement for Engineering Services**
Exhibit F	**Professional Liability Insurance**
Exhibit G	**Bridge Inspection Proposal**

Exhibit A

References

References

For references to our character of work, project management and overall quality of performance please feel free to contact any of the following clients:

- Craig Hardy, Iowa County Highway Commissioner, (608) 935-3381
- Phil Hewitt, Vernon County Highway Commissioner, (608) 637-5452
- Bill Condon, Richland County Highway Commissioner, (608) 647-4707
- Dave Lambert, Grant County Highway Commissioner, (608) 723-2595
- Tom Jean, Lafayette County Highway Commissioner, (608) 776-4919
- Clement Abongwa, Kenosha County Highway Commissioner, (262) 653-1870
- Mike Hardy, Baraboo – Parks/Recreation/Forestry Director, (608) 355-2760
- Nathan Check, Portage County Highway Commissioner, (715) 345-5230
- Dean Steingraber, Outagamie County Highway Commissioner, (920) 832-5673
- Emmer Shields, Ashland County Highway Commissioner, (715) 274-3662

Exhibit B

List of Services

Westbrook's Services

Construction Engineering

- Bridge Demolition Design
- Bridge Roll-Outs and Float-Outs
- Cast in Place Concrete Multi-Level Building Shoring & Reshoring
- Cofferdams
- Cost Reduction Incentive Design
- Crane Foundation Engineering
- Engineered Heavy Lifts
  - Crane Rigging
  - Engineered Pick Beams
- Falsework & Formwork
- Girder Erection Procedures
- Hydraulic Jacking Systems
- OSHA Fall Protection System Design
- Pile Load Test Frames
- Rehabilitation Procedures
- Temporary Bridges

Construction Administration

- Construction Inspection
- Construction Management
  - Bidding Process and Award
  - Contract Administration, Including Onsite Inspection
- Cost Estimates
- Materials & Sampling Testing

Earth Retention Systems

- MSE Walls
- Soldier Pile Walls
- Soil Nail Walls
- Sheet Pile Walls
- Tied Back Walls
- Secant Walls
- Caisson Walls

Environmental

- Flood Plain Delineation
- Permitting
- Storm Water Pollution Prevention Plan
- Storm Water Runoff Management
- Wetlands Delineation
- Wetlands Mitigation

Forensic Engineering: Failure Analysis

- Expert Witness Testimony
- Fire/Flood
- Foundation Damage During and After Construction
- Improper Design, Material or Construction
- Structural Collapses of Bridges or Buildings
- Temporary Shoring Failures During Construction
- Wind/Hail/Snow Damage From Severe Storm Events
- Vehicle Impact

Frac Sand Consulting Services

- Conditional Use Permitting
- Environmental Permitting
  - Notice of Intent
  - Storm Water Pollution Prevention Plan
  - Wetland Delineation
- Site/Civil Plan Development
  - Bridge and Culvert Design
  - Internal Haul Road Design
  - Intersection Design and Permitting
  - Railroad Facilities
  - Reclamation Plan

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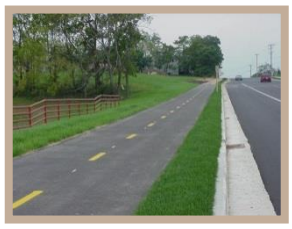

Marine Engineering

- Barge Loading Facilities
- Barge Mooring & Birthing Structures
- Bridge Float-Ins/Float-Outs
- Cellular Sheet Pile Walls
- Crane on Barge Analysis
- Dock Wall Design
- Marine Barge Stability
- Tripods & Pile Clusters
- Underwater Inspections

Municipal Civil Services

- Pipe/Culvert Replacement
- Project Management
  - Bidding Process and Award
  - Contract Administration, Including Onsite Inspection
  - Design Review and Approval Process (state and local)
- Residential and Commercial Site Development
- Sanitary & Storm Water Systems
  - Design of Extensions for Existing Systems
  - Evaluation and Repair of Existing Systems
- Sidewalks, Pavement, Terraces, Curbs and Gutters
  - Design and Construction Drawings for New Construction
  - Repair
- State and Local Permits
  - Building Plan Submittal and Permits
  - Grading Permits
  - Land Disturbance Permits
  - Surface Storm Water Discharge Permits

Railroad

- Bridge Condition Inspections and Ratings
- Bridge Design
- Bridge Rehabilitation
- Roll-Outs and Float-Outs
- Shoring Design
- Temporary Bridge Design
- Unloading Pits

Surveying

- ALTA/ACSM Survey
- As-Built Survey
- Boundary Survey
- Certified Survey Map (CSM)
- Condominium Plats
- Construction Staking
- Subdivision Plats
- Topographic Survey

Transportation

- Bicycle Facilities Design
- Bridge Design
  - Bridge Inspections
  - Bridge Ratings
  - Bridge Rehabilitation Design
  - Concrete Box Culverts
  - Concrete Slab Bridges
  - Prestressed Concrete I-Girder and Box Girder Bridges
  - Steel Girder Bridges
  - Timber Bridges
  - Truss Bridges
- Culvert Pipes
- Highway/Street Design
  - Rural
  - Urban
- Hydraulic Analysis
- Hydrology Analysis
- Multi-Use Path Design
- Parking Lot Design
- Pedestrian Path Design
- Right-Of-Way Acquisition and Plats
  - Transportation Project Plats
- Underwater Inspections
- Value Engineering

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Exhibit C

Resumes

WESTBROOK
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Aaron Palmer, P.E.

Position -Vice President / Transportation Project Manager

Education-Illinois Institute of Technology - Chicago, IL
Bachelor of Science, Civil Engineering

Registration- Professional Engineer - Wisconsin

Certifications- FWHA - certified Bridge Inspector

Professional Seminars

- NHI - Safety Inspection of In-Service Bridges
- NHI – Fracture Critical Inspection Techniques for Steel Bridges
- WisDOT Roundabout Training Workshop
- ASCE – Earth Retaining Structures
- ASCE – Load Rating of Highway Bridges
- ASCE – Stormwater Ponds: Inflows, Routing and Outlet Structure Design

Experience Summary
Mr. Palmer joined Westbrook in 2001 as a project engineer. Mr. Palmer was promoted to his current position of Vice President of Westbrook's Transportation Design Group in 2008.

Aaron brings strong leadership and management skills to the table developed during his service as an active duty officer in the United States Army. Aaron has extensive knowledge of the FDM and PS&E process and successfully implementing these processes in the development of plans for both urban and rural transportation projects. During his time at Westbrook, Aaron has been the project manager overseeing numerous resurfacing, mill and overlay, reconstruction and rehabilitation projects on local, county and the state highway system.

Recent Project Manager Experience

- **STH 80** **(2018 – 2019)**
  (Wisconsin River Bridge to CTH RC)
  Richland County **NW Region**
  Aaron was the Project Manager for this 9.79 mile rural mill and overlay project. The project also included upgrading the guardrail with new MGS. This project was just finished for a February 1, 2019 PS&E. Under Aaron's leadership Westbrook was able to turn this design project around in short order. Westbrook received the signed contract and notice to proceed on June 18, 2018 and was able to work through all deliverables to include a Phase 1, Section 106 Report to deliver this project on time.

- **CTH Q** **(2016 – 2017)**
  (CTH E to CTH Y)
  Richland County **NW Region**
  This project is a 7.1 mile rural safety project. Westbrook is tasked with developing permanent signing plans as well as replacing all substandard beam guard and adding new guardrail to areas of concern.

- **T Russell, Little Sand Bay Rd** **(2015 – 2017)**
  (Old CTH K to Termini)
  Bayfield County **NW Region**
  This project consists of a 2.6 mile rural pulverize and relay on Little Sandy Bay Rd. Other unique project features included a Section 106 Report, wetland delineation and report and H&H for pipe replacements.

- **STH 133, Grant County** **(2011 – 2015)**
  (W. Village Limits to E. Village Limits)
  Main Street Village of Woodman **SW Region**
  This project consists of an urban reconstruction of STH 133 through the Village of Woodman in northern Grant County. Westbrook designed all new storm sewer and conducted extensive coordination with the WisDNR and the Lower Wisconsin Riverway Board.

- **STH 175, Washington County** **(2008 – 2015)**
  (Maplewood to STH 60)
  Menomonee Falls – Slinger **SE Region**
  This project was a 9.06 mile rural reconditioning project with reconstruction of intersections to include a multi-lane roundabout at Lannon Road.

  The project also incorporated five structure plans for a twin cell box culvert, two soldier pile walls, an MSE block wall and a gravity wall. Westbrook was also responsible for culvert pipe sizing and the addition of storm sewer to many of the upgraded intersections. Extensive traffic control plans were developed to incorporate staged construction to maintain normal traffic flows to the longest extent possible while constructing the roundabout.

  Westbrook coordinated and conducted multiple Public Involvement Meetings (PIM) to ensure the public's questions and concerns were addressed.

- **Fairway Circle, Village of Plain, Sauk County** **(2014 – 2015)**
  This project was an urban reconstruction project of Fairway Circle from the intersection of Westbrook Drive to its termini in the Village of Plain. The project included the addition of curb and gutter, storm sewer and subgradge reinforcement by the addition of geogrid.

- **STH 175, Washington County** **(2007 – 2014)**
  (Beechwood Industrial Ct to Polk Street)
  Menomonee Falls – Slinger Road **SE Region**
  This project was a full urban reconstruct of a 2 mile portion of STH 175 through the Village of Richfield.

  The Village of Richfield had no curb and gutter or storm sewer so Westbrook designed an urban section with parking and storm sewer throughout the downtown area. The storm sewer outfall locations include some natural ponds, creeks and an artificial wetland storm water management system (AWSMS). The intersection of STH 175 and STH 167 was updated with a roundabout. Additional intersections were updated to accommodate current traffic patterns and to be compliant with current geometric design standards. The project added a multiuse path along with on street widening of the paved shoulder to be Trans 75 compliant.

  This project also involved extensive public relations. Westbrook's project team held three public information meetings along with on-site meetings with landowners to work through the public's concerns with the improvements. Utility and agency coordination was also a key to success of the project. Westbrook developed the vertical alignment of the roundabout along with developing storm sewer plans and construction staging plans in order to keep the highway open as long as possible during construction.

- **Park Avenue, Village of Plain, Sauk County** **(2012 – 2013)**
  This project was an urban reconstruction project of Park Avenue in the Village of Plain. This project also included the redesign and reconstruction of the parking area for the tennis courts and the approach sidewalk and ramps to the swimming pool to comply with current ADA regulations. New curb and gutter, storm sewer and sanitary laterals were added during this project.

- **STH 133, Grant County** **(2009 – 2012)**
  USH 18 – East Village Limits Woodman **SW Region**
  The STH 133 project was a rural roadway mill and overlay project. The project had a net centerline length of 9.78 miles and is located in northern Grant County along the Wisconsin River. The project widened the existing shoulder throughout the project from a 3' paved shoulder to a 3' paved with 1' base aggregate

shoulder. Extensive MGS guardrail was added to the project to limit impacts to existing slopes in the environmentally sensitive area along the Wisconsin River.

Westbrook was responsible for extensive agency coordination to include numerous on-site meetings with the Lower Wisconsin State Riverway Board, report preparation, and the PS&E package.

- **CTH H, Rock County** **(2015 – 2016)**
  Bass Creek Bridge Replacement **STP – Local Bridge – SW Region**
  The new structure is a two span concrete haunched slab bridge. Westbrook will be responsible for the development of a Right-of-Way plat. Project is currently 30% complete.

- **Westbrook Drive, Village of Plain, Sauk County** **(2015 – 2016)**
  Honey Creek Bridge, P-56-0717 **STP – Local Bridge – SW Region**
  This project consisted of developing plans and specifications for a concrete overlay on an existing two span haunched slab bridge. Project is currently 75% complete.

- **CTH Z, Town of Forest, Vernon County** **(2013 – 2014)**
  Billings Creek Bridge and Approaches, B-62-0243 **STP – Local Bridge – SW Region**
  The new structure is a single span concrete flat slab bridge. The project was originally scheduled for completion in November 2014 but was postponed by the department to an August 1, 2015 PS&E. This bridge will be constructed in early 2016.

- **USH 51, Rock County** **(2014)**
  B-53-145 over the Rock River **SW Region - Madison**
  This rehabilitation project consisted of concrete masonry deck patching and a polymer overlay of the existing structure. The project was completed on an expedited timeline

- **CTH Y, Town of Little River, Oconto County** **(2013 – 2014)**
  Cambell Ditch Bridge and Approaches, B-42-0100 **STP – Local Bridge – NE Region**
  The new structure is a single span concrete flat slab bridge. This project also involved the development of a Right-of-Way plat.

- **Dyreson Road, Town of Dunn, Dane County** **(2009 – 2014)**
  Bridge Over Yahara River, P-13-0190 **STP – Local Bridge – SE Region**
  This rehabilitation project consisted of developing plans for the structural rehabilitation of a 100 year old historic overhead truss structure. A full hands on visual and nondestructive evaluation of the structure was performed and documented in a detailed report.

- **Range Line Road, Village of River Hills, Milwaukee County** **(2009 – 2014)**
  Bridge Over Milwaukee River, P-40-0700 **STP – Local Bridge – SE Region**
  This project is a bridge rehabilitation project of an existing five-span spandrel arch bridge. Westbrook is also tasked with nominating the existing structure to the National Register for Historic Places for Bridges.

- **River Lane Road, Town of Potosi, Grant County** **(2012 – 2013)**
  Regan Branch Bridge, B-22-0281 **STP – Local Bridge – SW Region**
  The new structure is a single span concrete flat slab bridge.

- **Honey Creek Recreational Trail and Bridge, Village of Plain, Sauk County** **(2012)**
  The pedestrian structure is a single span steel girder structure with a timber deck and railing designed to accommodate Village maintenance vehicle traffic.

- **USH 18, Mount Horeb - Madison, Dane County** **(2011 – 2012)**
  Structures B-13-0052, 0383, 0404, 0407 and 0408
  This project was a bridge rehabilitation of five structures in Dane County. The project included performing a Type 1 deck preparation and a polymer overlay. Westbrook was also responsible for developing traffic control and staging plans.

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Jeffrey J. Koch, P.E.

Position – President/CEO/Chief Structural Engineer

Education – 1987 – Iowa State University – Ames, Iowa
Bachelor of Science, Civil Engineering - Structural
1983 – District One Technical Institute – Eau Claire, Wisconsin
Associates Degree, Civil Structural Technology

Registration – Professional Engineer – Arizona, Colorado, Florida, Idaho, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, North Dakota, Ohio, Pennsylvania, South Dakota, Utah, West Virginia, and Wisconsin.

Certification – FHWA – Certified Bridge Inspector / WisDOT Bridge Program Manager

Member – American Society of Civil Engineers
American Railway Engineering and Maintenance-of-Way Association

Professional Seminars

- Welding for Structural Engineers
- Effective Use of Concrete Falsework
- NHI – Soils & Foundation Workshop
- Reinforced Earth – Design, Materials, & Construction
- Underwater Evaluation & Repair of Bridge Components
- Intersection Design & Safety Improvements
- NHI – Safety Inspection of In-Service Bridges
- NHI – Fracture Critical Bridges
- Foundation Design
- HEC II – WSPRO
- Highway Bridge Design
- NEPA Process
- Design & Inspection of Buried Pipes
- Structural Condition Assessment
- Earth Retaining Structures
- Bridge Post-Tensioning
- LRFD Seismic Design of Highway Bridges
- LRFD Highway Bridge Design
- Structural Design of Masonry Systems
- Concrete Formwork & Shoring
- Pre-Engineered Wood Frames
- Repair of Concrete
- 2014 WisDOT Bridge Inspection Update Training

Experience Summary

Mr. Koch was promoted to his current position of President/CEO/Chief Structural Project Manager in 2001.

In November of 1988, Mr. Koch joined Westbrook Associated Engineers, Inc. as a Structural Design Engineer. His duties included hydrology and hydraulic analysis, preliminary and final bridge designs, cost estimates, P.S. & E. documents and construction inspection. In 1992, Mr. Koch was promoted to Project Manager and Chief Structural Engineer for the structures department. His duties included being the engineer-in-charge for all structural related designs, supervisor for the design team, scheduling and budgeting of structural related contracts and contract negotiations.

Mr. Koch also serves as a construction advisor for a number of national bridge contractors. He is completely familiar with the WisDOT Facilities Development Manual process and all applicable structural design codes related to bridge and building construction. Additionally, he has served as a guest lecturer for bridge engineering at the university level while also being the main presenter for construction engineering seminars for numerous bridge contractors.

He has served as the lead forensic structural engineer on numerous claims involving OSHA Fall Protection criteria, structural collapses (buildings, bridge structure, grain storage facilities, and masonry walls), foundation damage during and after construction, wind/hail/snow damage from severe storm events and temporary shoring failures during construction operations. Mr. Koch has been retained by many of the nation's largest insurance carriers and served the legal community from both the plaintiff and defense perspective. He has given numerous depositions and has been featured as an expert witness in many civil litigation cases.

Mr. Koch was also retained as a structural expert in construction engineering for the I-35W bridge collapse over the Mississippi River in Minneapolis, MN Case No. 27-CV-09-7519.

Mr. Koch is a State and Federal NBIS Certified Bridge Inspector for routine, underwater and fracture critical bridges. He has been the project manager on over 250 underwater bridge inspections and on over 1000 routine and fractural critical bridge inspections. He has over 25 years of bridge inspection experience.

Mr. Koch has been the lead structural project manager on well over 100 bridge replacement and rehabilitation projects throughout Wisconsin and the United States.

- **Various Structures, Rock County** **(2011 – 2014)**
  IH 39 Central Segment – SW Region
  Westbrook was selected in 2011 as the lead structural designer for all structural needs for the expansion of the IH 39/90 corridor from Janesville to the Dane County line. Mr. Koch has been leading Westbrook's structural design group on the design of new bridges, rehabilitations of existing bridges, retaining walls and sound walls as part of the expansion project.

- **CTH Z, Town of Forest, Vernon County** **(2013 – 2014)**
  Billings Creek Bridge and Approaches, B-62-0243 **STP – Local Bridge – SW Region**
  The new structure is a single span concrete flat slab bridge. Project is currently 40% complete.

- **CTH Y, Town of Little River, Oconto County** **(2013 – 2014)**
  Cambell Ditch Bridge and Approaches, B-42-0100 **STP – Local Bridge – NE Region**
  The new structure is a single span concrete flat slab bridge. Westbrook This project also involved the development of a Right-of-Way plat. Project is currently 90% complete.

- **STH 11, East Racine Street, Janesville, Rock County** **(2011 – 2013)**
  Bridge Over IH 39/90, B-53-329 **IH 39 Central Segment – SW Region**
  This bridge was the first structure to be built as part of the IH 39 expansion project. Westbrook Associated Engineers under Jeff's leadership was selected as the lead structural consultant for all structures in the central segment from Janesville to the Dane County Line.

- **River Lane Road, Town of Potosi, Grant County** **(2012 – 2013)**
  Regan Branch Bridge, B-22-0281 **STP – Local Bridge – SW Region**
  The new structure is a single span concrete flat slab bridge.

- **STH 171, Village of Boaz, Richland County** **(2010-2013)**
  The new structure is a three span prestressed girder structure on a horizontal curve.

WESTBROOK
Associated Engineers, Inc.

Alex Bromley, P.E.

Position- Project Manager

Education -2001 -University of Wisconsin - Platteville
Bachelors of Science, Civil Engineering

Registration -Professional Engineer, Wisconsin

Training Seminars

- Highway Bridge Design
- NHI Hot Mix Asphalt Construction

Experience Summary

Alex joined the company as a full-time engineer in 2001. He has experience in a wide variety of transportation and heavy civil projects with clients ranging from private individuals to large corporations as well as small municipalities to federal entities. Most recently, Alex has been involved with managing both construction administration and design projects.

Alex has a proactive management style and has a history of finding project efficiencies that save clients time and money. He has completed projects on accelerated time frames in both design and construction. On the recent I39 construction project Alex and staff found hundreds of thousands of dollars in cost savings which had a direct impact on the project coming in under budget. This field experience also enables him to create accurate cost estimates and find cost savings during the design phase.

Design Project Manager

- CTH Y Bridge Replacement, Oconto County, NE Local Program. The project replaced a deficient girder bridge with a slab span.
- IH 39/90/94 Wisconsin River Bridge, Southwest Region-Madison. This project included major rehabilitation of an existing 6-lane bridge with an overall length of 1690-ft. Permanent concrete crossovers were designed to accommodate traffic during the multi-year project. Structural inspection of the bridge was done in concert with WisDOT Bureau of Structures to identify needed repairs. Extensive traffic control including an incident management plan were implemented to maintain traffic with over 50,000 ADT.
- STH 21 Bridge Replacement, Southwest Region - La Crosse. Bridge replacement that involved removing an existing steel truss structure and replacement with a prestressed girder bridge. Project involved in-stream work with cofferdams and wetland mitigation.
- STH 128 Bridge Rehabilitation, Northwest Region - Eau Claire. Rehabilitation of an existing steel girder bridge including bearing and deck replacements over the Union Pacific Railroad. The project design involved analyzing the existing structure rating, producing structure plans for a redeck and roadway plans for the approaches. The project had a fast track timeline with project start in February and PSE in August. Project was on-time and on-budget in both design and construction.
- STH 23 Roadway Rehabilitation, SW Region-Madison. This project involved upgrading a 9-mile segment of state highway in Iowa County. Significant coordination with the DNR, SHPO, and Taliesin was necessary to successfully complete the Section 106 process due to the site's National Historic Landmark status. This project included pavement replacement as well as mill and overlay sections with roadside safety hardware upgrades to meet current standards.
- USH 61/151 Roadway Rehabilitation, Southwest Region - Madison. Rehabilitation of a 14-mile segment of freeway. Project included concrete pavement replacement and repairs, beam guard upgrades, sign replacements, and repair of a deep installation pipe culvert involving temporary sheeting and pipe liner.
- USH 151, Dane, Columbia, and Dodge Counties, SW Region – Madison. This design project was located along USH 151 a four lane divided highway and stretched for 45 miles through 3 counties. The project upgraded roadside hardware throughout the corridor to meet current standards. Crash walls, bull noses, crash cushions, energy absorbing terminals, and grading to meet current standards were required. As always traffic control was a key portion of the project on this busy roadway.

Construction Project Leader

- IH 39 Interchange with STH 23/82, Northcentral Region – Wisconsin Rapids. This high complexity project involved interchange reconstruction including a structure replacement and 6 structure rehabilitations on IH 39. A temporary bypass and bridge were constructed in the median to maintain traffic throughout the project. Improving the Interstate profile, ramp reconstruction, as well as adjoining roadway reconstruction required hundreds of thousands of yards of borrow and common excavation.
- STH 60 Wisconsin River Bridge at Prairie du Sac, Southwest Region-Madison. The project involved rehabilitation of the existing 750-foot long steel girder bridge including backwall replacement, deck replacement, decorative lighting, heat straightening of girders, and bridge painting.
- IH 39/CTH I overpass, Southwest Region-Madison. Replacement of the overpass including MSE walls, prestressed girder bridge, grading, and extensive traffic control with rolling stops on the Interstate to set girders.
- STH 33 Wisconsin River Bridge at Portage, Southwest Region-Madison. The STH 33 Wisconsin River Bridge project located in Portage included the rehabilitation of the 5 span, 700-foot long, steel girder bridge. Major items included replacing the deck and abutment back wall, bridge painting, aesthetic lighting and railing, architectural surface treatments and staining. The project also required structural steel repairs and heat straightening of girders. The bridge is a critical crossing and coordination with local governments, businesses, and stakeholders was key to project success
- Kinnickinnic River Railroad Bridge, Milwaukee, WI, Canadian Pacific Railroad. Driven sheet pile wall construction to protect swing span pier in the Kinnickinnic River. Sheet piling, timber fender walls, and underwater concrete pours.
- Lakeshore State Park, Milwaukee, WI, Dept. of State Facilities. Post-tensioned concrete arch bridge connecting the new state park to the Milwaukee shoreline. Complex geometry and innovative construction techniques were utilized. A pile driving analyzer was used along with Capwap software to verify pile capacity. Post-tensioning with grouted tendons were utilized in the superstructure. This project won numerous construction awards.
- STH 80, Highland, Southwest Region – Madison. This urban roadway reconstruction project involved upgrading to current standards with significant storm sewer and utility moves including blasting in an urban environment. The project was a waste project with all soil being remediated due to elevated lead levels with some soil also requiring remediation for petroleum. Special measures were taken during water and sanitary installation through contaminated areas.
- Dillon Marina, Dillon Colorado. Reconstruction of the marina included a number of precautions to keep Dillon Reservoir free of contaminants including using vegetable oil in heavy equipment. The reservoir is located at 9,000 feet of elevation and provides drinking water to Denver. Logistics were also key with the project scheduled outside the summer tourism season the project was constructed straight through the Colorado Rocky winter season. The project replaced steel sheeting walls, gabions, docks, jib cranes, water and sanitary utilities.
- Mill Street, SW Local Program. Urban reconstruct under the ARRA program requiring increased reporting and project tracking. The project included utilities, storm sewer, retaining walls, curb and gutter, sidewalks, base and pavement replacement.
- Eclipse Boulevard, City of Beloit. Urban reconstruct involving the construction of a new roadway. Sanitary sewer, water, curb & gutter, concrete paving, soil remediation/capping, decorative lighting, and storm sewer including a detention pond and weir structure.

WESTBROOK
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Chris Schaub, P.E.

Position – Structural Design Engineer

Education – 2008 University of Wisconsin Platteville - Bachelor of Science with Honors, Civil Engineering

Registration – Professional Engineer - Wisconsin

Professional Seminars

- Highway Bridge Design Course 2014
- HEC-RAS Design Course 2013
- Bridge Construction Inspection Course 2009
- RISA Program Design Course 2008

Experience Summary

In May 2012 Mr. Schaub joined Westbrook Associated Engineers, Inc. Mr. Schaub works in the Structure & Bridge Departments at Westbrook. Responsibilities in the Structure Department include the design and plan development of engineered solutions to meet a wide array of construction engineering needs. Responsibilities in the Bridge Department include the design, plan development, and review of bridge designs for local and state transportation programs for WisDOT. Mr. Schaub recently worked on the final design and plans for the new IH-39/90 twin bridge structures over the Rock River in Rock County, WI.

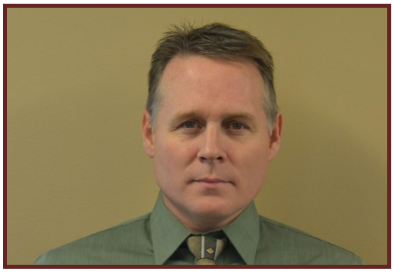
In 2011 Mr. Schaub worked for Buesing Associated Engineers as an Engineer Inspector. He worked exclusively on a seven mile project on IH-39/90 south of Madison, WI. His duties included ensuring that contractors performed all work according to the project's plans and special provisions in addition to WisDOT and Federal construction standards.

In 2008 to 2010 Mr. Schaub worked for McClure Associated Engineers as a Design Engineer. As a member of the structures designing and drafting team, valuable drafting and structural analysis experience was acquired by working on pedestrian/bike bridges along the Pecatonica Prairie Path between Rockford and Freeport, IL. He also acquired construction experience as a field inspector on the Brookview Road bridge construction project in Rockford, IL.

In the summer of 2005 & 2006 Mr. Schaub worked for the Wisconsin Department of Transportation as a Civil Engineer-Transportation SET (Student Engineer-in-Training) summer internship. He gained vast experience on a wide variety of construction materials by lab testing concrete cylinders, aggregate, steel reinforcing rebar, high tension cables, fencing, geo-fabrics, road paint, slag and fly ash. During the summer of 2005, field construction experience was acquired inspecting concrete pavement on a US Highway 2 construction project in Ashland, WI using an Air Void Analyzer (AVA) and later comparing air entrainment results with concrete cores taken at the sample sites.

Relevant Experience

- IH-39/90 bridges over Rock River, Town of Fulton, Rock County, WI
- IH-39/90 bridge widening over USH 14, City of Janesville, Rock County, WI
- IH-39/90 bridge widening over STH 26, City of Janesville, Rock County, WI
- VIA Rail SWPPP Design Project, Mountrail County, ND
- STH 11/East Racine Street bridge over IH-39/90, City of Janesville, Rock County, WI
- CTH K bridge over Big Green River, Town of Woodman, Grant County, WI
- CTH J bridge over Little Suamico River, Oconto County, WI
- Honey Creek Bike Path bridge, Sauk County, WI
- STH 171 bridge over Mill Creek, Town of Boaz, Richland County, WI



WESTBROOK
Associated Engineers, Inc.

Kerry Knutson

Position-Assistant Project Manager / Senior Design Technician

Education -Madison Area Technical College - Madison, WI
Associates Degree, Civil Engineering Technology

Experience Summary
Mr. Knutson began working with Westbrook Associated Engineers, Inc. in 1990. In his 28 years of employment with Westbrook he has worked in the following departments: Surveying Department as a Survey Crew Chief, CAD Department as a Computer-Aided Draftsman, Highway Design Department as a Highway Design Engineer, and various private site development& grading projects.

Mr. Knutson has extensive experience with the use of two civil engineering design software packages, Eagle Point and Civil3D. Mr. Knutson is responsible for corresponding and coordinating with Clients, Federal agencies, State agencies, counties, townships, municipalities, and utilities. He is also a key individual in the preparation and submittal of various reports required during project development process, using design software and computer aided drafting to prepare and finalize plans for construction.

WisDOT & County Highway Design Project Experience

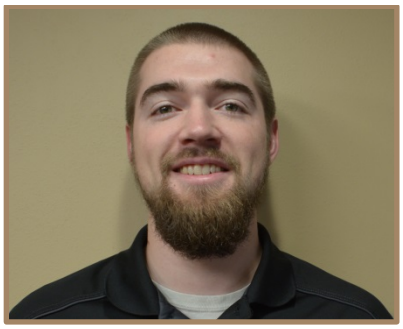
- STH 80, Richland County. 9.8 mile rural mill and overlay with MGS beam guard.
- STH 33, Grant County. 9.78 mile rural mill and overlay in northern Grant County along the environmentally sensitive lower Wisconsin Riverway.
- IH39/90, Columbia County. Traffic control plans and crossover design for Wisconsin River Bridge Rehab.
- CTH S, Rock County. 1.6 mile urban reconstruction project transitioning from urban to rural area and 2.3 miles rural resurfacing
- STH 186, Wood County. Three structures and approach work.
- STH 175, Fond du Lac County. Six mile roadway overlay/reconstruction project: 5 miles of overlay, 1 mile of reconstruction.
- USH 18, Crawford County. 1.5 mile roadway reconstruction project in a transitioning urban to rural area.
- USH 151, Fond du Lac County. 2.3 mile roadway reconstruction project in urban and rural areas along with three concrete box culverts and one bridge. We changed the vertical alignment in several places to increase the stopping sight distance and reconstructed four intersections to meet current design standards.
- USH 12, Dane County. 4.6-mile roadway reconstruction project, four-lane divided freeway in a rural area.
- USH 44, Winnebago County. This 3R (resurface, restoration, rehabilitation) project involved resurfacing the 9.78 mile section of highway with two 12-foot lanes and 10-foot shoulders and improving intersections. Three feet of each shoulder were also paved to provide more safety for motorists.
- Various intersection design, coordination, and development of plans required for access approval permit for new residential development:
    - CTH M, Inechen Drive, Verona, Dane County.
    - CTH M, Harmony Drive, Verona, Dane County.
    - CTH N, Eastwood Drive, Stoughton, Dane County.
    - CTH BB, Kennedy Road, Cottage Grove, Dane County.
    - STH 21, Tunnel City, Monroe County

City Design Project Experience

- City of Rochester MN - Douglas Trail pedestrian/bike path bridges, 52 spans total project length of 3400'
- City of Beloit - Summit Avenue,0.4 miles of new four lane urban street project
- City of LaCrosse - Bliss Road, 0.55 miles ofroadway reconstruction.
- City of Madison - Charter Street railroad crossing

Private Site Development& Grading Projects

- The Anderson's - Wisconsin Rapids WI & Arena WI
- Unimin - Tunnel City WI & Junction City GA
- American Players Theatre - Spring Green, WI
- Archer Daniels Midland - Clinton IA & Camanche IA
- Railroad - Centerville IA, New Town ND, & Arcadia WI



WESTBROOK
Associated Engineers, Inc.

Erik Meyer, P.E.

Position – Design Engineer

Education – University of Wisconsin – Platteville
2015 – Bachelor of Science, Civil and Environmental Engineering

Certifications – Engineer-In-Training, ACI Concrete Field Testing Technician, MnDOT Concrete Field Technician, HTCP Transportation Materials Sampling, HTCP Portland Cement Concrete Technician I.

Experience Summary
Erik joined Westbrook Associated Engineers as a Design Engineer. Erik works in the Transportation Design and Construction Management Departments at Westbrook. Erik has extensive experience with AutoCAD, AutoCAD Civil 3D, Estimator, AASHTOWare Project, and Microsoft Office. Responsibilities include: design and plan development of various roadway, bridge replacement and site development projects as well as quantity and cost calculations. Erik is well versed with the WisDOT Facilities Development Manual and in the PS&E process.

Relevant Experience – Transportation Design

- STH 80, Richland County – 9.8 mile rural mill and overlay with MGS beam guard.
- Little Sand Bay Road, Bayfield County – 2.6 mile rural pulverize & relay with shoulder widening.
- STH 133, Village of Woodman, Grant County – Urban street reconstruction.
- CTH Q, Richland County – 7 mile safety improvement project with MGS beam guard and signing plans.
- CTH H, Town of Plymouth, Rock County – Bridge replacement, MGS beam guard and roadway design.
- USH 151, Dane and Columbia Counties – Developed traffic control and staging plans for three structure rehabilitations along the corridor.
- Military Ridge State Trail, Mt. Horeb, Dane County – Developed traffic control and staging plans and was responsible for agency coordination.
- CTH WW, Vernon County – Seymour Creek Bridge replacement and roadway design.
- Covered Bridge Road, Richland County – Horse Creek Bridge replacement and roadway design.
- Tea Lake Road, Marengo, Ashland County – Replacement of a private bridge.

Relevant Experience – Site Design

- Mid Continent Railroad Museum, Township of North Freedom, Sauk County – Coach Shed and Rail Expansion Grading.
- Fox River City Slip Property, Green Bay, WI – Cantilevered Sheet Pile Site Development and Grading.
- American Players Theatre, Spring Green, WI – Proposed Site Grading.
- Crab Island Security Enclave, Fernandina Beach, FL – Bulkhead Wall Proposed Site Development and Grading.

Relevant Experience – Construction Management

- Nebraska Ave., Town of Portland, Monroe County – Support staff on branch of Little La Crosse River Bridge Replacement B-41-0301.
- CTH M & N, Monroe County – Support staff on box culvert replacements C-41-0136 and B-41-0304.
- CTH C, Soldiers Grove, Crawford County – Support staff on Johnson Creek Bridge Replacement B-12-0181 and intersection realignment.
- STH 191, Dodgeville, Iowa County – Assistant project leader and materials coordinator on full reconstruction of urban highway.
- STH 35, Prairie du Chien, Crawford County – Support staff on full reconstruction of an urban highway.

WESTBROOK
Associated Engineers, Inc.

Nicholas Brey, P.L.S.

Position – Professional Land Surveyor / Senior Engineering Technician III

Education - Madison Area Technical College - Madison, WI
Associates Degree - Civil Engineering Technology & Land Surveying

Experience Summary – Mr. Brey joined Westbrook Associated Engineers in May of 2012 as an Engineering Technician in the Transportation Design Group. Nick has experience with numerous computer applications including: Field Manager, AutoCAD Civil 3D, HEC-RAS, and Microsoft Office. Responsibilities include: field surveys for design projects, hydrology and hydraulic (H&H) analysis for bridge and culvert replacements, construction management and materials documentation for WisDOT construction projects, drafting and plan development for various structure and roadway design projects, construction surveying, drafting right-of-way plats and certified survey maps, and quantity/cost calculation. Nick is a licensed professional land surveyor in the State of Wisconsin and is also certified through the Highway Technician Certification Program (HTCP) in the following courses: Portland Cement Concrete Technician I, Grading Technician I, Nuclear Density Technician I, and Transportation Materials Sampling Technician.

Relevant Experience

TRANSPORTATION DESIGN

- **STH 80, Richland County** - performed field survey and plan development for this rural mill and overlay from the Wisconsin River Bridge to CTH RC. The project also included the replacement of substandard guardrail with new MGS guardrail.
- **STH 33, Village of Woodman, Grant County** – performed field survey and plan development for this urban reconstruction through the Village of Woodman.
- **Little Sand Bay Road, Bayfield County** – 2.6 mile rural pulverize & relay with shoulder widening. Responsibilities included agency coordination, plan set development and R/W plat development.
- **CTH Q, Richland County** – performed field survey and plan development for this safety project which consisted of guardrail replacement and new permanent signing.
- **STH 175, Village of Richfield, Washington County** – Urban reconstruction with single lane roundabout. Responsibilities included plan set development and agency coordination.
- **13th Avenue, Pike River Bridge, B-30-0013, Village of Somers, Kenosha County** – performed H&H analysis, field survey, R/W plat development and plan development for this two span haunched slab bridge over the Pike River.
- **CTH H, Mill Creek Bridge, P-25-0041, Iowa County** – performed H&H analysis, field survey, R/W plat development and plan development for this three span haunched slab bridge over Mill Creek.
- **Covered Bridge Rd, Horse Creek Bridge, B-52-0274, Town of Richland, Richland County** – performed H&H analysis, field survey and plan development for this single span flat slab bridge over Horse Creek.
- **CTH WW, Seymour Creek Bridge, B-62-0257, Vernon County** – performed H&H analysis, field survey, and plan development for this single span flat slab bridge over Seymour Creek.
- **CTH KR, Pedestrian Bridge, Village of Somers, Kenosha County** – performed H&H analysis, field survey, and plan development for this single span prefabricated Pratt style truss bridge over the Pike River.
- **Baraboo Pedestrian Bridge, Parks Department, City of Baraboo** – performed H&H analysis, field survey, and plan development for this single span prefabricated Pratt style truss bridge over the Baraboo River.
- **STH 20, Fox River Bridge, Village of Waterford, Racine County** – performed plan development for this two span prestressed girder bridge over the Fox River.
- **CTH Z, Billings Creek Bridge, Town of Forest, Vernon County** – performed H&H analysis, field survey, and plan development for this single span flat slab bridge over Billings Creek.
- **Canadian Pacific Railroad** - Railroad bridge rehabilitation over Kinnikinnic Avenue. Anchor slab and railing design, plan set development, and drafting to include traffic control plans.

WESTBROOK
Associated Engineers, Inc.

Mike Goebel, P.L.S

Position – Survey and R/W Project Manager

Education – University of Wisconsin – Richland Center, WI
Associate of Science Degree, Civil Engineering

Registration – Registered Land Surveyor, Wisconsin (1975)

Experience Summary
Mike has worked for Westbrook since 1980. He has over four decades of surveying experience covering all aspects of the industry which include construction staking for grading and paving projects, property surveys, subdivision plats, Right-of-Way plats, transportation project plats (TPP's), section corner restoration, topographic surveying, hydraulic and hydrology surveys, design surveys, estimating and scheduling, construction inspection, and materials testing. He has also worked as Project Engineer on several WisDOT construction projects since 1989. He is a member of the WSLS and NSPS. Mike retired from full time service in 2017 but continues to assist on an as-needed basis.

Before joining Westbrook Mike worked for Lakeland of Wisconsin from 1978-1980 as a Real Estate Broker. Previously he worked for Hovelsrud Consulting Engineers from 1970-1978. While at Hovelsrud Consulting he worked on WisDOT section corner restoration projects, was involved with municipal surveys, property surveys, subdivision plats and construction inspection jobs.

Recent Design Survey's
- Park Avenue, Village of Plain, Sauk County – urban reconstruct
- CTH Q, Richland County – 7.1 mile safety project
- STH 175, Washington County – 12.1 miles of urban roadway
- Fairway Circle, Village of Plain, Sauk County – urban reconstruct
- STH 23, Iowa County – 6.0 miles rural mill and overlay
- STH 133, Grant County – 9.78 miles of rural roadway
- Cedar Street / Park View Avenue, Village of Plain, Sauk County – urban reconstruct
- CTH Z, Vernon County – bridge replacement
- CTH ZZ, Richland County – bridge replacement
- Jarvis Hollow Rd, Richland County – bridge replacement
- Proksch Coulee Rd, Vernon County – bridge replacement
- Sheridan Springs Rd, Walworth County – bridge replacement
- Pearl Street, City of New London, Waupaca County – bridge replacement
- CTH K, Grant County – bridge replacement
- Bills Rd, Clayton Township, Crawford County – bridge replacement
- CTH G, Lafayette County – 1.5 miles of rural roadway
- Ives Grove, York Township, Racine County – bridge replacement
- CTH P, Marathon County – bridge replacement

Recent Right of Way Plat Preparation
- Little Sand Bay Road, Bayfield County – 2.6 mile rural pulverize and relay
- USH 12, Dane County – 4.5 miles of rural expressway
- STH 175, Fond Du Lac, WI - 1.5 miles of urban/rural highway
- USH 45, Jackson Street, Oshkosh, WI – 1.2 miles of urban roadway
- CTH HH, Grant County, WI – 3 miles of rural highway
- USH 151, Fond Du Lac, WI – 2 miles of urban/rural highway

Exhibit D

2019/20 Fee Schedule

WESTBROOK
Associated Engineers, Inc.

Billing Rates
2019/20

Westbrook Associated Engineers, Inc. (WAE) proposes the following hourly **Billing Rates** to Green Lake County, WI (Client) for the design and construction administration and inspection of local capital improvement projects for the 2019/2020 biennium.

Design	**2019/20**
Project Manager	$162.50
Structural Engineer	$130.00
Project Engineer	$120.00
Staff Engineer	$85.00
Design Technician	$67.50
Registered Surveyor	$95.00
Surveyor	$80.50

Construction Inspection	**2019/20**
Project Manager	$162.50
Professional Engineer	$125.00
Registered Surveyor	$95.00
Staff Engineer	$85.00
Technician	$67.50

2019/20 Reimbursables

Mileage – $0.58 / mile
Meals - $13.00 / lunch

Exhibit E

Standard Agreement for Engineering Services

WESTBROOK
Associated Engineers, Inc.

619 East Hoxie St. | P.O. Box 429 | Spring Green, WI 53588
P: (608) 588-7866 | F: (608) 588-7954 | www.westbrookeng.com

CONTRACT FOR ENGINEERING SERVICES

This contract for Engineering Services ("Agreement") is made and entered into between:

WESTBROOK ASSOCIATED ENGINEERS, INC.

of 619 East Hoxie Street, Spring Green, Wisconsin 53588, hereinafter referred to as "Westbrook" and:

Client: Green Lake County Highway Department
Address: 570 South Street
Green Lake, WI 54941

hereinafter referred to as the "Client," in connection with the following:

1. Project Title: Green Lake County On-Call Engineering Services

2. Project Description: Design, Construction Administration, Bridge Inspection Services As-Needed.

3. Scope of Services: As-Needed Project by Project Basis per Green Lake County

4. Schedule for Services: Work to be completed as needed based on discussion with Green Lake County. Bridge inspection services schedule as determined by each bridge and as listed on WisDOT's HSI site.

5. Cost: The cost of these services is based on the attached 2019/2020 fee schedule.

Westbrook agrees to provide and perform the services set forth above in compliance with the general and special conditions of this Agreement. Client agrees to timely pay Westbrook for completed services and comply with the general and special conditions of this Agreement. This Agreement consists of the front and back of this document and any attached exhibits, (2019/20 Fee Schedule, Bridge Inspection Fee).

IN WITNESS WHEREOF, the parties have executed this Agreement on the dates indicated below.

WESTBROOK ASSOCIATED ENGINEERS, INC.

By: Aaron B. Palmer, P.E.
Title: Vice President
Date: June 17, 2019

By: _____
Title: _____
Date: _____

6. PERFORMANCE OF SERVICES. Westbrook shall perform for or furnish Client professional engineering and related services in all phases of the Project to which this Agreement applies. Westbrook may employ such consultants as Westbrook deems necessary to assist in the performance or furnishing of professional engineering and related services under this Agreement.

7. OWNERSHIP AND USE OF DOCUMENTS. The drawings, specifications and other documents prepared or furnished by Westbrook shall become the property of Client upon receipt of payment for services rendered under this Agreement. Drawings, specifications and other documents furnished by Westbrook, shall not be used by the Client on other projects or for additions to this project, except by written agreement relating to the use, liability and compensation.

8. SAMPLES. All samples of materials for testing will be made readily available to Westbrook at no cost. Samples of materials which remain after testing by Westbrook will be disposed of by Westbrook unless otherwise directed in writing by Client.

9. TIME. Westbrook shall provide the services hereunder as expeditiously as is consistent with reasonable skill and care and shall complete the services in the time specified in Paragraph 4 of this Agreement.

10. PAYMENT. Client shall pay Westbrook for services performed or furnished in accordance with Paragraph 5 of this Agreement. Invoices for services will be prepared in accordance with Westbrook's standard invoicing practices and will be submitted to Client at least monthly. Invoices are due and payable on receipt.

11. LATE PAYMENT AND COLLECTION CHARGES. Client agrees to pay interest at a rate of 1.5% per month (18% per annum) on all amounts of any nature due hereunder, not paid within thirty (30) days after becoming due. Client agrees to pay all costs of collection, including reasonable attorneys' fees and court costs.

12. WARRANTY. Westbrook warrants that it will use sound engineering principles in the performance of the services hereunder and that it will apply such skill, care, judgment and supervision ordinarily used by the engineering profession practicing under similar conditions at the same time and in the same locality. THE WARRANTIES CONTAINED IN THIS PARAGRAPH ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED.

13. DELAYS. Westbrook shall not be liable to Client for delay in completion of the services hereunder if the delay is due to acts or occurrences which Westbrook could not reasonably foresee and prevent, including but not limited to, acts of God, war, act of government, fire, flood, strike by other than its own employees, or sabotage. In case of such delay, the time of performance shall be extended for a period equal to the time lost be reason of the delay. Westbrook shall give notice of any such delay within three (3) working days, after learning of the delay or that a delay is imminent.

14. TERMINATION OF AGREEMENT. This Agreement may be terminated by either party upon ten (10) working days' written notice should the other party fail to substantially perform in accordance with the terms of this Agreement through no fault of the party initiating the termination and fail to cure the default within said period. Any notice given pursuant to this paragraph shall specify the nature of the default. In the event of termination not the fault of Westbrook, Westbrook shall be compensated for services performed to termination date and Termination Expenses. Termination Expenses are expenses directly attributable to termination, including a reasonable amount of overhead and profit, for which Westbrook is not otherwise compensated.

15 SAFETY AND INSPECTIONS. It is understood that employees of Westbrook shall not be required to perform any tests or make any inspections for which such employees are not legally permitted to perform or make. Westbrook shall have no responsibility for loss prevention, safety programs or safety policies. Client shall be responsible for all appropriate safety measures pertaining to the Project, including posting appropriate warnings and notices, erecting safety barriers, and establishing proper notice procedures to protect persons and property at the Project from injury, loss or damage.

16. INDEMNIFICATION OF WESTBROOK. To the fullest extent permitted by law, Client shall indemnify, hold harmless and defend Westbrook, Westbrook's officers, directors, partners, employees and agents from and against any and all loss, liabilities, causes of action, claims, costs, damages, attorneys' fees or judgments pertaining to the performance of the services hereunder, and involving personal injuries to, or death of all persons, whether employed by Westbrook or otherwise, and for damage or injuries to any property whether belonging to Westbrook, Client or others, which is caused in whole or in part by the negligent acts or omissions of Client, or any of Client's officers, directors, partners, employees, agents or consultants, regardless of whether or not it is caused in part by a party indemnified hereunder. To the fullest extent permitted by law, Westbrook’s liability under this Agreement shall not exceed Westbrook’s total compensation actually received under this Agreement.

17. INSURANCE. Westbrook shall procure and maintain at all times during the performance of its services hereunder, and at its own expense, the following: (a) statutorily required Workers' Compensation Insurance; (b) General Liability Insurance covering claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any person other than such employees, and from claims or damages because of injury to or destruction of property, other than to work at the Project site, including loss of use resulting therefrom; and, (c) statutorily required Automotive Liability Insurance covering owned, non-owned and hired automotive equipment. Insurance certificates will be furnished upon request. If the Client requires additional insured status, Westbrook will, at the Client's expense, procure this additional coverage.

18. COMPLIANCE WITH LAWS. Westbrook agrees to comply with federal, state and local laws, ordinances and regulations applicable to the services provided by Westbrook under this Agreement.

19. SUCCESSORS AND ASSIGNS. This Agreement shall be binding on successors, assigns and legal representatives of any persons in privity with the Client or Westbrook. Neither this contract nor any interest herein, or claim hereunder, shall be assigned by either party without written consent of the other.

20. COMPLETE AGREEMENT. This Agreement represents the entire agreement between the parties. There are no representations, agreements, undertakings, terms or provisions between the parties with respect to the contract work. All modifications or amendments to this Agreement must be in writing and signed by both parties.

21. NOTICES. Any notice required under this Agreement will be in writing, addressed to the appropriate party at the address which appears on the signature page of this Agreement and given personally, by certified mail, return receipt requested, or by facsimile and United States First Class Mail. All notices shall be effective upon the date of receipt.

22. CONTROLLING LAW. This Agreement is to be governed by the laws of the State of Wisconsin.

23. ATTORNEYS' FEES. In the event that legal action is instituted by either party to this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees and costs.

24. TITLES. Paragraph titles herein are for convenience and shall be disregarded in the interpretation of this Agreement.

Exhibit F

Professional Liability Insurance

WESTASS-01 AMJOHNSO

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 04/18/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME: Elizabeth Gaida	
Johnson Insurance Madison 525 Junction Road Madison, WI 53717	PHONE (A/C, No, Ext): (608) 203-3897	FAX (A/C, No): (877) 254-8586
	E-MAIL ADDRESS: egaida@johnsonfinancialgroup.com	
	INSURER(S) AFFORDING COVERAGE	NAIC #
	INSURER A : Travelers Insurance	
INSURED Westbrook Associated Engineers Jeff Koch 619 East Hoxie St Spring Green, WI 53588	INSURER B : Charter Oak Fire Insurance Co.	25615
	INSURER C : Travelers Indemnity Company of CT	25682
	INSURER D : Continental Casualty Company	20443
	INSURER E :	
	INSURER F :	

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY			6800J543550	04/19/2019	04/19/2020	EACH OCCURRENCE	$ 2,000,000
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 1,000,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 4,000,000
	POLICY PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 4,000,000
	OTHER:						EMPLOYEE BENEFI	$ 2,000,000
B	AUTOMOBILE LIABILITY			BA4227N088	04/19/2019	04/19/2020	COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
C	X UMBRELLA LIAB X OCCUR			CUP1D820320	04/19/2019	04/19/2020	EACH OCCURRENCE	$ 5,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED X RETENTION $ 10,000						Aggregate	$ 5,000,000
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N	N / A		UB3K028527	04/19/2019	04/19/2020	PER STATUTE OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT	$ 500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 500,000
							E.L. DISEASE - POLICY LIMIT	$ 500,000
D	Professional Liabili			AEH591873849	04/19/2019	04/19/2020	Per Claim	5,000,000
D	Professional Liabili			AEH591873849	04/19/2019	04/19/2020	Aggregate	5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

Evidence of Insurance

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

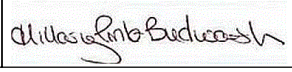


Exhibit G

Bridge Inspection Proposal

WESTBROOK
Associated Engineers, Inc.

619 East Hoxie St. | P.O. Box 429 | Spring Green, WI 53588
P: (608) 588-7866 | F: (608) 588-7954 | www.westbrookeng.com

June 17, 2019

Green Lake County Highway Department
570 South Street
Green Lake, WI 54941

Attn: Barry Mashuda, County Highway Commissioner

RE: 2019/2020 In-Service Bridge Inspections

Mr. Mashuda,

Westbrook is interested in providing bridge inspection services to Green Lake County for the 2019/2020 In-Service Bridge Inspection Cycle.

Westbrook will perform the Routine, UW Profile, SIA Review, and Scour Plan of Action inspections, as the individual structure frequency dictates, and upload the inspection reports, supplemental drawings and pictures as needed onto the WisDOT Highway Structures Information System (HSIS), submit hard copies to the County, and provide you with a listing of the recommended bridge maintenance items for the bridges.

WESTBROOK ASSOCIATED ENGINEERS, INC. proposes to perform the 2019/2020 Bridge Inspections, supplemental activities and reports for a **LUMP SUM price in 2019 of $5,703**; and for a **LUMP SUM price in 2020 of $6,112** as detailed by the attached inspection cost schedule.

Please let me know if you have any questions regarding this proposal. If our proposal is acceptable, please sign and return one copy of this letter to our office for processing. Thank you in advance for choosing to work with Westbrook again.

Sincerely,
WESTBROOK ASSOCIATED ENGINEERS, INC.

Aaron Palmer, P.E.
Vice President, Bridge Inspection Program Manager
WiDOT Certified Bridge Inspector #9508

enc. 2019/2020 Inspection Cost Schedule

ACCEPTED BY:

Green Lake County Date

STRCT_ID	FEATURE_ON	FEATURE_UNDER	MUNICIPALITY	OWNER	TYPE	FRQ	PRIOR_DATE	SPECIAL_REQ	2019 $	2020 $	Due Date
B240036	CTH BB	TRIB LAKE	T-GREEN LAKE(24006)	COUNTY	SIA REVIEW	48	2015-08-31		$25		**Aug-19**
B240036	CTH BB	TRIB LAKE	T-GREEN LAKE(24006)	COUNTY	ROUTINE	24	2017-08-29		$195		**Aug-19**
B240037	CTH B	Trib. Puckaway Lake	T-MARQUETTE(24014)	COUNTY	ROUTINE	24	2017-08-29		$195		**Aug-19**
B240037	CTH B	Trib. Puckaway Lake	T-MARQUETTE(24014)	COUNTY	SIA REVIEW	48	2015-08-31		$25		**Aug-19**
B240043	CTH I	GRAND RIVER	T-MANCHESTER(24012)	COUNTY	ROUTINE	24	2017-08-30		$195		**Aug-19**
B240003	CTH H	GRAND RIVER	T-MARQUETTE(24014)	COUNTY	ROUTINE	24	2017-09-21	Waders/Boat	$195		**Sep-19**
B240003	CTH H	GRAND RIVER	T-MARQUETTE(24014)	COUNTY	SIA REVIEW	48	2015-09-28	Waders/Boat	$25		**Sep-19**
B240005	CTH A	SILVER CREEK	T-BROOKLYN(24004)	COUNTY	SIA REVIEW	48	2015-09-28	Waders/ Boat	$25		**Sep-19**
B240005	CTH A	SILVER CREEK	T-BROOKLYN(24004)	COUNTY	ROUTINE	24	2017-09-26	Waders/ Boat	$195		**Sep-19**
B240008	CTH A	GRAND RIVER	T-MACKFORD(24010)	COUNTY	ROUTINE	24	2017-09-26	Waders & Ladder	$295		**Sep-19**
B240008	CTH A	GRAND RIVER	T-MACKFORD(24010)	COUNTY	SIA REVIEW	48	2015-09-22	Waders & Ladder	$25		**Sep-19**
B240013	CTH D	BR FOX RIVER	T-SENECA(24020)	COUNTY	ROUTINE	24	2017-09-25	Waders	$195		**Sep-19**
B240013	CTH D	BR FOX RIVER	T-SENECA(24020)	COUNTY	SIA REVIEW	48	2015-09-17	Waders	$25		**Sep-19**
B240015	CTH FF	BELLE FOUNTAIN CREEK	T-KINGSTON(24008)	COUNTY	SIA REVIEW	48	2015-09-14	Waders	$25		**Sep-19**
B240015	CTH FF	BELLE FOUNTAIN CREEK	T-KINGSTON(24008)	COUNTY	ROUTINE	24	2017-09-21	Waders	$195		**Sep-19**
B240018	CTH M	FOX RIVER	T-MANCHESTER(24012)	COUNTY	SIA REVIEW	48	2015-09-10	Waders	$25		**Sep-19**
B240018	CTH M	FOX RIVER	T-MANCHESTER(24012)	COUNTY	ROUTINE	24	2017-09-14	Waders	$195		**Sep-19**
B240025	CTH J	PUCHYAN RIVER	T-BROOKLYN(24004)	COUNTY	ROUTINE	24	2017-09-25		$195		**Sep-19**
B240025	CTH J	PUCHYAN RIVER	T-BROOKLYN(24004)	COUNTY	SIA REVIEW	48	2015-09-22		$25		**Sep-19**
B240032	CTH A	Puchyan River	T-BROOKLYN(24004)	COUNTY	UW-PROFILE	24	2017-09-25		$96		**Sep-19**
B240032	CTH A	Puchyan River	T-BROOKLYN(24004)	COUNTY	ROUTINE	24	2017-09-25		$295		**Sep-19**
B240032	CTH A	Puchyan River	T-BROOKLYN(24004)	COUNTY	SIA REVIEW	48	2015-09-14		$25		**Sep-19**
B240033	CTH B	BELLE FOUNTAIN CREEK	T-KINGSTON(24008)	COUNTY	SIA REVIEW	48	2015-09-14		$25		**Sep-19**
B240033	CTH B	BELLE FOUNTAIN CREEK	T-KINGSTON(24008)	COUNTY	ROUTINE	24	2017-09-21		$195		**Sep-19**
B240034	CTH K	GREEN LAKE	T-GREEN LAKE(24006)	COUNTY	SIA REVIEW	48	2015-09-28	Boat Other:Divers	$25		**Sep-19**
B240034	CTH K	GREEN LAKE	T-GREEN LAKE(24006)	COUNTY	ROUTINE	24	2017-09-26	Boat Other:Divers	$195		**Sep-19**
B240035	CTH A	DRAINAGE WAY	T-BERLIN(24002)	COUNTY	ROUTINE	24	2017-09-25	Waders	$195		**Sep-19**
B240035	CTH A	DRAINAGE WAY	T-BERLIN(24002)	COUNTY	SIA REVIEW	48	2015-09-17	Waders	$25		**Sep-19**
B240039	Proscarian Road	Trib to Grand River	T-MANCHESTER(24012)	TOWN	SIA REVIEW	48	2015-09-24	CHEST WADERS	$25		**Sep-19**
B240442	CTH X	BR GRAND RIVER	T-MANCHESTER(24012)	COUNTY	UW-PROFILE	24	2017-09-14	Waders	$96		**Sep-19**
B240442	CTH X	BR GRAND RIVER	T-MANCHESTER(24012)	COUNTY	ROUTINE	24	2017-09-14	Waders	$295		**Sep-19**
B240442	CTH X	BR GRAND RIVER	T-MANCHESTER(24012)	COUNTY	SIA REVIEW	48	2015-09-10	Waders	$25		**Sep-19**
P240026	CTH S	GRAND RIVER	T-MACKFORD(24010)	COUNTY	ROUTINE	12	2018-09-12	Waders	$195		**Sep-19**
P240026	CTH S	GRAND RIVER	T-MACKFORD(24010)	COUNTY	UW-PROFILE	24	2017-09-18	Waders	$96		**Sep-19**
P240026	CTH S	GRAND RIVER	T-MACKFORD(24010)	COUNTY	SIA REVIEW	48	2015-09-17	Waders	$25		**Sep-19**
P240033	CTH Q	GRAND RIVER	T-GREEN LAKE(24006)	COUNTY	UW-PROFILE	24	2017-09-18	Waders	$96		**Sep-19**
P240033	CTH Q	GRAND RIVER	T-GREEN LAKE(24006)	COUNTY	ROUTINE	12	2018-09-24	Waders	$195		**Sep-19**
P240033	CTH Q	GRAND RIVER	T-GREEN LAKE(24006)	COUNTY	SIA REVIEW	48	2015-09-17	Waders	$25		**Sep-19**
P240040	CTH S	GRAND RIVER	T-MANCHESTER(24012)	COUNTY	SIA REVIEW	48	2015-09-10	Waders	$25		**Sep-19**
P240040	CTH S	GRAND RIVER	T-MANCHESTER(24012)	COUNTY	ROUTINE	24	2017-09-19	Waders	$195		**Sep-19**
P240041	VILLAGE RD	GRAND RIVER	T-MACKFORD(24010)	TOWN	ROUTINE	12	2018-09-24	Waders	$195		**Sep-19**
B240437	A MILLS ST	PUCKYAN RIVER	C-GREEN LAKE(24231)	CITY	SCOUR PLAN OF ACTION	48	2015-12-22	Waders	$96		**Dec-19**
B240442	CTH X	BR GRAND RIVER	T-MANCHESTER(24012)	COUNTY	SCOUR PLAN OF ACTION	48	2015-12-22	Waders	$96		**Dec-19**
P240026	CTH S	GRAND RIVER	T-MACKFORD(24010)	COUNTY	SCOUR PLAN OF ACTION	48	2015-12-22	Waders	$96		**Dec-19**
P240033	CTH Q	GRAND RIVER	T-GREEN LAKE(24006)	COUNTY	SCOUR PLAN OF ACTION	48	2015-12-18	Waders	$96		**Dec-19**
P240041	VILLAGE RD	GRAND RIVER	T-MACKFORD(24010)	TOWN	SCOUR PLAN OF ACTION	48	2015-12-22	Waders	$96		**Dec-19**
P240700	SOUTH LAWSON DR	PUCHYAN RIVER	C-GREEN LAKE(24231)	CITY	SCOUR PLAN OF ACTION	48	2015-12-22	Waders or Boat	$96		**Dec-19**
P240703	BRIDGE ST	GRAND RIVER	C-MARKESAN(24251)	CITY	SCOUR PLAN OF ACTION	48	2015-12-30	Waders	$96		**Dec-19**
P240906	DEAD END RD	SILVER CREEK	T-BROOKLYN(24004)	TOWN	SCOUR PLAN OF ACTION	48	2015-12-30	Waders	$96		**Dec-19**
P240907	FRIESLAND RD	BR GRAND RIVER	T-MANCHESTER(24012)	TOWN	SCOUR PLAN OF ACTION	48	2015-12-22	Waders	$96		**Dec-19**
B240030	STH 49-HURON ST	FOX RIVER	C-BERLIN(24206)	CITY	ROUTINE	24	2018-05-31	Boat, Probe		$295	**May-20**
B240030	STH 49-HURON ST	FOX RIVER	C-BERLIN(24206)	CITY	SIA REVIEW	48	2016-05-02	Boat, Probe		$25	**May-20**
B240031	Franklin St. / STH 49/91	Fox River	C-BERLIN(24206)	CITY	SIA REVIEW	48	2016-05-02	Boat		$25	**May-20**
B240031	Franklin St. / STH 49/91	Fox River	C-BERLIN(24206)	CITY	ROUTINE	24	2018-05-30	Boat		$295	**May-20**
B240042	GILLETTE DR NB & SB	BELLE FOUNTAIN CREEK	T-KINGSTON(24008)	TOWN	ROUTINE	24	2018-06-19			$195	**Jun-20**
B240042	GILLETTE DR NB & SB	BELLE FOUNTAIN CREEK	T-KINGSTON(24008)	TOWN	SIA REVIEW	48	2016-06-21			$25	**Jun-20**
B240010	VALLEY RD	GRAND RIVER	T-MANCHESTER(24012)	TOWN	ROUTINE	24	2018-09-24			$195	**Sep-20**

STRCT_ID	FEATURE_ON	FEATURE_UNDER	MUNICIPALITY	OWNER	TYPE	FRQ	PRIOR_DATE	SPECIAL_REQ	2019 $	2020 $	Due Date
B240010	VALLEY RD	GRAND RIVER	T-MANCHESTER(24012)	TOWN	SIA REVIEW	48	2016-09-08			$25	**Sep-20**
B240012	STH 49-WASHINGTON ST	BARNES CREEK	C-BERLIN(24206)	CITY	SIA REVIEW	48	2016-09-13	Waders		$25	**Sep-20**
B240012	STH 49-WASHINGTON ST	BARNES CREEK	C-BERLIN(24206)	CITY	ROUTINE	24	2018-09-25	Waders		$195	**Sep-20**
B240016	SPAULDING HILL ROAD	SILVER CREEK	T-BROOKLYN(24004)	TOWN	ROUTINE	24	2018-09-24	Waders		$195	**Sep-20**
B240016	SPAULDING HILL ROAD	SILVER CREEK	T-BROOKLYN(24004)	TOWN	SIA REVIEW	48	2016-09-12	Waders		$25	**Sep-20**
B240017	UTLEY ROAD	GRAND RIVER	T-GREEN LAKE(24006)	TOWN	SIA REVIEW	48	2016-09-12	Waders		$25	**Sep-20**
B240017	UTLEY ROAD	GRAND RIVER	T-GREEN LAKE(24006)	TOWN	ROUTINE	24	2018-09-12	Waders		$195	**Sep-20**
B240017	UTLEY ROAD	GRAND RIVER	T-GREEN LAKE(24006)	TOWN	UW-PROFILE	24	2018-09-12	Waders		$96	**Sep-20**
B240021	WHITE RIVER RD	WHITE RIVER	T-SENECA(24020)	TOWN	SIA REVIEW	48	2016-09-13	Waders		$25	**Sep-20**
B240021	WHITE RIVER RD	WHITE RIVER	T-SENECA(24020)	TOWN	ROUTINE	24	2018-09-24	Waders		$195	**Sep-20**
B240022	LOVERS LANE	BELLE FOUNTAIN CREEK	T-KINGSTON(24008)	TOWN	SIA REVIEW	48	2016-09-08	Waders		$25	**Sep-20**
B240022	LOVERS LANE	BELLE FOUNTAIN CREEK	T-KINGSTON(24008)	TOWN	ROUTINE	24	2018-09-24	Waders		$195	**Sep-20**
B240029	BERLIN RD	PUCHYAN RIVER	T-BROOKLYN(24004)	TOWN	ROUTINE	24	2018-09-12			$195	**Sep-20**
B240029	BERLIN RD	PUCHYAN RIVER	T-BROOKLYN(24004)	TOWN	SIA REVIEW	48	2016-09-12			$25	**Sep-20**
B240039	Proscarian Road	Trib to Grand River	T-MANCHESTER(24012)	TOWN	ROUTINE	24	2018-09-12	CHEST WADERS		$195	**Sep-20**
B240040	LAWSON DR	PUCHYAN RIVER	T-BROOKLYN(24004)	TOWN	SIA REVIEW	48	2016-09-14			$25	**Sep-20**
B240041	D	WHITE RIVER	T-SAINT MARIE(24018)	COUNTY	ROUTINE	24	2018-09-24			$195	**Sep-20**
B240437	A MILLS ST	PUCKYAN RIVER	C-GREEN LAKE(24231)	CITY	ROUTINE	24	2018-09-25	Waders		$295	**Sep-20**
B240437	A MILLS ST	PUCKYAN RIVER	C-GREEN LAKE(24231)	CITY	SIA REVIEW	48	2016-09-13	Waders		$25	**Sep-20**
B240437	A MILLS ST	PUCKYAN RIVER	C-GREEN LAKE(24231)	CITY	UW-PROFILE	24	2018-09-25	Waders		$96	**Sep-20**
P240026	CTH S	GRAND RIVER	T-MACKFORD(24010)	COUNTY	ROUTINE	12	2018-09-12	Waders		$195	**Sep-20**
P240033	CTH Q	GRAND RIVER	T-GREEN LAKE(24006)	COUNTY	ROUTINE	12	2018-09-24	Waders		$195	**Sep-20**
P240041	VILLAGE RD	GRAND RIVER	T-MACKFORD(24010)	TOWN	ROUTINE	12	2018-09-24	Waders		$195	**Sep-20**
P240041	VILLAGE RD	GRAND RIVER	T-MACKFORD(24010)	TOWN	UW-PROFILE	24	2018-09-24	Waders		$96	**Sep-20**
P240041	VILLAGE RD	GRAND RIVER	T-MACKFORD(24010)	TOWN	SIA REVIEW	48	2016-09-06	Waders		$25	**Sep-20**
P240700	SOUTH LAWSON DR	PUCHYAN RIVER	C-GREEN LAKE(24231)	CITY	ROUTINE	24	2018-09-25	Waders or Boat		$295	**Sep-20**
P240700	SOUTH LAWSON DR	PUCHYAN RIVER	C-GREEN LAKE(24231)	CITY	SIA REVIEW	48	2016-09-13	Waders or Boat		$25	**Sep-20**
P240700	SOUTH LAWSON DR	PUCHYAN RIVER	C-GREEN LAKE(24231)	CITY	UW-PROFILE	24	2018-09-25	Waders or Boat		$96	**Sep-20**
P240702	MAIN ST	GRAND RIVER	C-MARKESAN(24251)	CITY	SIA REVIEW	48	2016-09-06	Waders		$25	**Sep-20**
P240702	MAIN ST	GRAND RIVER	C-MARKESAN(24251)	CITY	ROUTINE	24	2018-09-12	Waders		$195	**Sep-20**
P240703	BRIDGE ST	GRAND RIVER	C-MARKESAN(24251)	CITY	UW-PROFILE	24	2018-09-12	Waders		$96	**Sep-20**
P240703	BRIDGE ST	GRAND RIVER	C-MARKESAN(24251)	CITY	SIA REVIEW	48	2016-09-06	Waders		$25	**Sep-20**
P240703	BRIDGE ST	GRAND RIVER	C-MARKESAN(24251)	CITY	ROUTINE	24	2018-09-12	Waders		$295	**Sep-20**
P240906	DEAD END RD	SILVER CREEK	T-BROOKLYN(24004)	TOWN	SIA REVIEW	48	2016-09-12	Waders		$25	**Sep-20**
P240906	DEAD END RD	SILVER CREEK	T-BROOKLYN(24004)	TOWN	ROUTINE	24	2018-09-12	Waders		$295	**Sep-20**
P240906	DEAD END RD	SILVER CREEK	T-BROOKLYN(24004)	TOWN	UW-PROFILE	24	2018-09-12	Waders		$96	**Sep-20**
P240907	FRIESLAND RD	BR GRAND RIVER	T-MANCHESTER(24012)	TOWN	SIA REVIEW	48	2016-09-14	Waders		$25	**Sep-20**
P240907	FRIESLAND RD	BR GRAND RIVER	T-MANCHESTER(24012)	TOWN	UW-PROFILE	24	2018-09-24	Waders		$96	**Sep-20**
P240907	FRIESLAND RD	BR GRAND RIVER	T-MANCHESTER(24012)	TOWN	ROUTINE	24	2018-09-24	Waders		$295	**Sep-20**
B240040	LAWSON DR	PUCHYAN RIVER	T-BROOKLYN(24004)	TOWN	ROUTINE	24	2018-11-30			$195	**Nov-20**
								Subtotal	**$5,703**	**$6,112**	
								Total	**$11,815**		

2019 Equipment Operations Summary

January thru February 2019

Year	Rev over Cost	Revenue	Total Cost	Fuel	Lube	Labor	Fringe	Overhead	Parts	Tire/Batt	Depr Mthly	Usage Hrs	
	9,617.41	369,403.81	359,786.40	58,363.61	4,034.71	45,395.50	33,356.56	35,668.67	83,831.98	13,583.51	85,551.56	26,131.25	
		(7,239.44)	(7,366.90)									(13,922.00)	003
2018	**9,744.87**	362,164.37	352,419.50									12,209.25	
	23,731.90	337,415.74	313,683.84	52,641.16	2,768.42	43,206.69	32,029.11	34,191.59	48,368.04	5,404.62	95,074.21	23,933.50	
		(3,175.20)	(1,092.62)									(5,670.00)	003
		(3,961.44)	(1,970.47)									(7,074.00)	002
2019	**19,658.35**	330,279.10	310,620.75									11,189.50	

January thru March 2019

Year	Rev over Cost	Revenue	Total Cost	Fuel	Lube	Labor	Fringe	Overhead	Parts	Tire/Batt	Depr Mthly	Usage Hrs	
	13,984.80	193,692.59	179,707.79	28,920.28	1,769.49	22,518.99	16,693.35	17,781.36	29,507.31	5,009.98	57,507.03	13,592.25	
		(3,765.42)	(3,105.40)									(6,973.00)	003
2018	**13,324.78**	189,927.17	176,602.39									6,619.25	
	207,314.95	454,893.77	247,578.82	71,525.13	2,939.80	25,771.87	17,310.97	19,592.33	55,079.05	1,825.74	53,533.93	30,136.50	
		(4,502.40)	(1,577.26)									(8,040.00)	003
		(4,324.88)	(2,620.56)									(7,723.00)	002
2019	**202,685.49**	446,066.49	243,381.00									14,373.50	

January thru May 2019

Year	Rev over Cost	Revenue	Total Cost	Fuel	Lube	Labor	Fringe	Overhead	Parts	Tire/Batt	Depr Mthly	Usage Hrs	
	(13,123.46)	337,415.74	350,539.20	52,641.16	2,768.42	43,206.69	32,029.11	70,276.11	48,368.04	5,404.62	95,845.05	23,933.50	
		(6,848.82)	(5,444.87)									(12,683.00)	003
2018	**(14,527.41)**	330,566.92	345,094.33									11,250.50	
	115,254.67	546,238.69	430,984.02	86,639.86	4,601.93	46,444.97	31,197.07	72,625.21	92,754.07	7,497.70	89,223.21	41,516.50	
		(7,362.88)	(3,331.71)									(13,148.00)	003
		(6,228.52)	(10,041.12)									(11,102.75)	002
2019	**115,036.10**	532,647.29	417,611.19									17,265.75	

January thru JUNE 2019

Year	Rev over Cost	Revenue	Total Cost	Fuel	Lube	Labor	Fringe	Overhead	Parts	Tire/Batt	Depr Mthly	Usage Hrs	
	12,523.56	416,454.97	403,931.41	63,106.71	3,221.50	48,369.19	35,856.09	78,692.99	53,545.78	6,125.10	115,014.05	28,299.75	
		(8,050.32)	(6,427.83)									(14,908.00)	003
2018	**10,901.07**	408,404.65	397,503.58									13,391.75	
	138,731.12	624,518.75	485,787.63	97,607.33	4,915.93	50,634.09	34,010.91	79,182.10	102,674.33	9,695.09	107,067.85	47,705.75	
		(8,469.44)	(4,477.09)									(15,124.00)	003
		(7,317.16)	(10,372.48)									(13,046.75)	002
2019	**137,794.09**	608,732.15	470,938.06									19,535.00	

1/1/2019 Thru 6/30/2019 (6 MONTHS EST DPRN) (ALL WO TYPES) (ALL WO KINDS)

Equipment	Revenue	Total-cost	Fuel	Lube	Labor	Fringe	Overhead	Part	Tire/batt	Dprn-mnthly	Units
001	0.00	1886.00	0.00	13.21	70.40	47.29	110.18	3.92	0.00	1641.00	0.00
002	7317.16	10372.48	2708.91	45.07	503.86	338.44	788.62	5752.86	234.72	0.00	13046.75
003	8469.44	4477.09	2844.86	32.36	124.35	83.53	194.64	1197.35	0.00	0.00	15124.00
005	0.00	6398.19	898.39	23.93	575.52	386.58	900.79	924.98	0.00	2688.00	0.00
006	2497.36	1318.32	675.49	12.27	158.20	106.26	247.62	0.00	118.48	0.00	164.00
007	8047.85	5781.95	1944.77	0.00	34.05	22.87	53.29	12.49	118.48	3596.00	416.50
008	695.40	3021.14	101.63	111.15	731.83	491.57	1145.47	439.49	0.00	0.00	45.75
013	1886.56	287.96	287.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	97.00
015	1155.60	515.99	413.99	0.00	45.40	30.50	0.00	26.10	0.00	0.00	60.00
016	5470.48	3101.98	1524.58	0.00	57.18	38.41	89.49	1392.32	0.00	0.00	359.50
017	2997.13	926.21	449.79	3.85	145.99	98.06	228.52	0.00	0.00	0.00	113.50
018	4498.44	2577.38	1605.96	25.30	56.75	38.12	88.83	762.42	0.00	0.00	293.75
019	6695.60	2040.59	1770.15	0.00	79.91	53.68	125.07	11.78	0.00	0.00	440.50
020	9162.08	10712.66	2104.90	84.22	1648.36	1107.20	2580.01	3187.97	0.00	0.00	173.00
022	13253.24	11371.98	3433.26	257.45	1648.68	1107.42	2580.54	1708.31	636.32	0.00	250.25
024	1431.84	684.92	684.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	94.00
025	4233.20	3855.57	1552.16	0.00	28.13	18.89	44.03	2212.36	0.00	0.00	278.50
026	15861.52	4990.81	2486.75	4.22	688.57	462.51	1077.75	271.01	0.00	0.00	299.50
027	24804.74	15169.89	4606.27	254.42	311.79	209.43	488.02	429.46	0.00	8870.50	401.50
028	22009.13	24070.85	4499.00	205.86	1127.13	757.09	1764.21	2418.75	5082.81	8216.00	356.25
029	11319.91	8228.39	1976.04	77.43	1318.48	885.62	2063.73	1907.09	0.00	0.00	389.00
030	15321.60	10590.16	2636.24	194.91	665.47	447.00	1041.58	4367.46	0.00	1237.50	224.00
031	18391.91	17954.78	4458.58	161.69	984.82	661.50	1541.47	1941.72	0.00	8205.00	297.50
032	20727.19	16113.32	5404.73	436.56	1645.98	1105.60	2576.32	2475.63	0.00	2468.50	335.50
033	9390.57	7133.70	1619.78	51.91	775.89	521.17	1214.47	2950.48	0.00	0.00	152.00
036	23615.42	19468.48	5723.89	373.13	443.76	298.07	694.57	2503.06	0.00	9432.00	382.25
042	11935.80	4370.11	883.79	172.89	737.75	495.55	1154.74	925.39	0.00	0.00	174.50
044	13143.70	12673.64	2515.09	399.22	1508.73	1013.41	2361.48	4409.51	466.20	0.00	212.75
045	8989.00	6826.18	1948.42	191.03	911.43	612.21	1426.57	1736.52	0.00	0.00	145.50
048	22318.04	7798.94	4001.37	268.71	400.53	269.04	626.91	2232.38	0.00	0.00	361.25
050	22410.71	14841.28	4541.02	239.28	217.43	146.05	340.31	170.69	0.00	9186.50	362.75
051	16510.71	7299.79	3634.92	17.35	323.01	216.97	505.57	639.48	1962.49	0.00	267.25
052	22040.02	15772.90	4945.29	178.92	1387.69	932.11	2171.96	6156.93	0.00	0.00	356.75
053	20510.96	14323.10	3940.96	194.86	138.85	93.27	217.32	459.84	0.00	9278.00	332.00
054	10725.01	5977.16	1372.96	14.03	893.76	600.34	1398.90	1697.17	0.00	0.00	173.50
10000WT	6890.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
102	169.10	524.44	51.19	20.72	130.80	87.86	204.73	29.14	0.00	0.00	5.00
103	0.00	711.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	711.00	88.00
110R	588.76	2092.33	0.00	0.00	646.39	434.18	1011.76	0.00	0.00	0.00	41.00
110S	588.76	2028.31	0.00	0.00	493.91	331.76	773.08	429.56	0.00	0.00	41.00
111R	689.28	3915.45	0.00	0.00	1002.42	673.33	1569.02	670.68	0.00	0.00	48.00
111S	718.00	693.34	0.00	0.00	190.83	128.18	298.69	75.64	0.00	0.00	50.00
112R	631.84	3255.62	0.00	0.00	965.29	648.39	1510.88	131.06	0.00	0.00	44.00
112S	660.56	218.01	0.00	0.00	67.35	45.24	105.42	0.00	0.00	0.00	46.00
113R	660.56	2992.91	0.00	0.00	770.28	517.40	1205.66	6.57	0.00	493.00	46.00
113S	660.56	1194.06	0.00	0.00	67.35	45.24	105.42	76.05	0.00	900.00	46.00
115	6.96	697.52	24.73	0.00	113.25	76.07	177.27	306.20	0.00	0.00	0.50
130	0.00	306.37	0.00	0.00	89.80	60.32	140.56	15.69	0.00	0.00	0.00
133	1394.41	2648.82	25.41	12.48	707.16	475.00	1106.86	321.91	0.00	0.00	44.75
136	1822.86	730.01	120.34	0.00	185.22	124.41	289.91	10.13	0.00	0.00	58.50
138	0.00	367.79	0.00	0.00	101.03	67.86	158.13	40.77	0.00	0.00	0.00
139	60.16	218.01	0.00	0.00	67.35	45.24	105.42	0.00	0.00	0.00	2.00
193	815.10	780.85	99.34	0.00	33.68	22.62	52.71	0.00	0.00	572.50	39.00
194	20.90	190.96	0.00	0.00	33.68	22.62	52.71	81.95	0.00	0.00	1.00
195	22257.27	12021.89	3073.03	54.61	22.70	15.25	35.52	192.78	0.00	8628.00	360.50
196	641.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	60.50
200	0.00	218.01	0.00	0.00	67.35	45.24	105.42	0.00	0.00	0.00	0.00
206	1612.75	1304.44	379.12	0.00	230.01	154.50	360.01	180.80	0.00	0.00	98.00
207	454.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.00
208	0.00	13985.76	0.00	0.00	1414.86	950.36	2214.58	9405.96	0.00	0.00	0.00
209	194.30	1534.69	0.00	0.00	123.48	82.94	193.27	0.00	0.00	1135.00	5.00
210	106.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50
221	0.00	10540.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10540.00	0.00
225	3690.75	3242.90	23.17	21.80	351.36	236.01	549.96	2060.60	0.00	0.00	47.50
304	1375.03	1920.32	198.18	49.23	299.09	200.90	468.14	588.23	116.55	0.00	40.25
308	0.00	896.76	0.00	0.00	225.13	151.22	352.38	45.08	122.95	0.00	0.00
310	1662.08	6168.34	279.53	71.55	1588.36	1066.90	2486.15	354.02	321.83	0.00	49.00
311	1831.68	1726.93	285.95	0.00	342.58	230.11	536.20	332.09	0.00	0.00	54.00
312	2052.16	4974.04	429.90	80.35	1322.91	888.60	2070.66	181.62	0.00	0.00	60.50
313	2046.00	7961.89	358.66	88.19	1204.73	809.22	1885.67	357.42	0.00	3258.00	50.00
323	0.00	307.79	0.00	0.00	89.81	60.33	140.57	17.08	0.00	0.00	0.00
326	45.00	181.83	0.00	0.00	44.90	30.16	70.28	36.49	0.00	0.00	2.00
334	10676.73	6317.02	1298.23	105.70	951.53	639.14	1489.36	1595.16	237.90	0.00	183.25
336	9889.67	3889.45	1693.68	105.91	360.63	242.24	564.45	922.54	0.00	0.00	169.75
356	914.55	975.81	73.95	0.00	272.03	182.72	425.79	21.32	0.00	0.00	19.50
420	230.00	1036.15	0.00	0.00	46.26	31.07	72.40	886.42	0.00	0.00	12.50
422	1628.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88.50
432	1683.60	1565.20	0.00	0.00	80.10	53.80	125.38	886.42	0.00	419.50	91.50
436	2773.80	1797.24	0.00	0.00	128.06	86.02	200.44	915.22	0.00	467.50	150.75
455	9196.21	9017.35	981.52	0.00	1548.95	1040.43	2424.47	3021.98	0.00	0.00	135.50

1/1/2019 Thru 6/30/2019 (6 MONTHS EST DPRN) (ALL WO TYPES) (ALL WO KINDS)

Equipment	Revenue	Total-cost	Fuel	Lube	Labor	Fringe	Overhead	Part	Tire/batt	Dprn-mnthly	Units
456	6728.10	2307.98	581.47	0.00	376.69	253.02	589.59	230.85	276.36	0.00	102.50
457	14178.24	7198.24	1996.98	82.09	1048.97	704.59	1641.86	1723.75	0.00	0.00	216.00
500	6149.48	1221.05	385.42	8.96	34.05	22.87	53.29	716.46	0.00	0.00	137.25
501	35.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00
570	4483.80	3079.46	199.13	0.00	202.45	135.99	316.87	1210.52	0.00	1014.50	238.50
571	6521.72	3378.10	198.90	0.00	302.99	203.52	474.26	1183.93	0.00	1014.50	345.50
573	1356.32	829.98	0.00	19.97	243.08	163.28	380.48	23.17	0.00	0.00	33.00
574	259.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.50
576	4428.64	3293.90	461.44	0.00	630.00	423.17	986.08	793.21	0.00	0.00	103.50
577	2434.32	1263.87	191.24	19.97	163.08	109.54	255.26	524.78	0.00	0.00	60.50
581	0.00	5342.78	0.00	5.88	703.70	472.68	1101.44	2406.08	0.00	653.00	0.00
586	0.00	3739.92	0.00	114.28	612.90	411.68	959.32	1641.74	0.00	0.00	0.00
655	971.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.00
657	940.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00
720	1575.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	124.25
722	2409.20	446.96	0.00	0.00	138.08	92.75	216.13	0.00	0.00	0.00	190.00
726	2095.37	1178.84	0.00	0.00	115.11	77.32	180.17	806.24	0.00	0.00	165.25
727	3442.62	880.24	0.00	0.00	126.74	85.13	198.37	0.00	0.00	470.00	271.50
728	1873.47	919.26	0.00	0.00	125.97	84.61	197.18	0.00	0.00	511.50	147.75
730	2314.10	1528.96	0.00	0.00	134.95	90.65	211.22	969.64	0.00	122.50	182.50
731	2802.28	872.18	0.00	0.00	116.06	77.96	181.66	0.00	0.00	496.50	221.00
732	2833.98	997.22	0.00	0.00	159.17	106.91	249.14	0.00	0.00	482.00	223.50
733	1537.45	594.16	0.00	0.00	172.58	115.92	270.12	35.54	0.00	0.00	121.25
736	2453.58	3721.17	0.00	0.00	241.10	161.95	377.38	2430.74	0.00	510.00	193.50
744	2203.15	582.34	0.00	0.00	159.70	107.27	249.96	65.41	0.00	0.00	173.75
745	1166.56	668.68	0.00	0.00	206.58	138.76	323.34	0.00	0.00	0.00	92.00
748	2437.73	412.27	0.00	0.00	127.37	85.55	199.35	0.00	0.00	0.00	192.25
750	2814.96	1895.61	0.00	0.00	157.25	105.62	246.14	872.60	0.00	514.00	222.00
751	2485.28	353.34	0.00	0.00	109.16	73.32	170.86	0.00	0.00	0.00	196.00
752	2922.74	315.92	0.00	0.00	97.60	65.56	152.76	0.00	0.00	0.00	230.50
753	2729.37	1929.80	0.00	0.00	163.70	109.96	256.22	886.42	0.00	513.50	215.25
754	684.72	568.47	0.00	0.00	175.62	117.96	274.89	0.00	0.00	0.00	54.00
754R	177.52	294.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	294.50	14.00
760	367.72	57.00	0.00	0.00	17.61	11.83	27.56	0.00	0.00	0.00	29.00
820	1155.88	356.51	0.00	0.00	91.16	61.23	142.68	61.44	0.00	0.00	101.75
822	1919.84	1330.51	0.00	0.00	184.01	123.60	288.02	734.88	0.00	0.00	169.00
826	1848.84	450.14	0.00	0.00	137.51	92.37	215.23	5.03	0.00	0.00	162.75
827	2964.96	2569.07	0.00	0.00	463.07	311.04	724.81	659.15	0.00	411.00	261.00
828	1894.28	1036.57	0.00	0.00	117.88	79.18	184.51	0.00	0.00	655.00	166.75
830	2050.48	95.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	95.00	180.50
831	2175.44	1076.40	0.00	0.00	144.39	96.99	226.02	0.00	0.00	609.00	191.50
832	2493.52	3317.17	0.00	0.00	435.67	292.64	681.90	1513.11	0.00	393.85	219.50
833	1314.92	593.23	0.00	0.00	172.29	115.73	269.67	35.54	0.00	0.00	115.75
836	2289.04	1238.39	0.00	0.00	247.27	166.09	387.03	0.00	0.00	438.00	201.50
842	284.00	226.35	0.00	0.00	69.93	46.97	109.45	0.00	0.00	0.00	25.00
844	1544.96	1914.29	0.00	0.00	158.96	106.77	248.81	1399.75	0.00	0.00	136.00
845	903.12	808.25	0.00	0.00	246.41	165.51	385.67	10.66	0.00	0.00	79.50
848	2027.76	1429.92	0.00	0.00	391.12	262.72	612.20	163.88	0.00	0.00	178.50
850	2396.96	881.72	0.00	0.00	137.39	92.28	215.05	0.00	0.00	437.00	211.00
851	1840.32	315.54	0.00	0.00	97.48	65.48	152.58	0.00	0.00	0.00	162.00
852	2272.00	1415.28	0.00	0.00	285.78	191.96	447.29	490.25	0.00	0.00	200.00
853	2249.28	944.10	0.00	0.00	156.66	105.23	245.21	0.00	0.00	437.00	198.00
854	704.32	1836.47	0.00	0.00	545.30	366.28	853.51	71.38	0.00	0.00	62.00
857	1116.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	45.00
886	1414.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.00
920	489.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.00
922	937.02	801.76	0.00	0.00	244.90	164.50	383.31	9.05	0.00	0.00	72.75
926	598.92	387.88	0.00	0.00	119.83	80.49	187.56	0.00	0.00	0.00	46.50
927	1642.20	1353.78	0.00	0.00	142.43	95.67	222.93	532.75	0.00	360.00	127.50
928	875.84	1042.29	0.00	0.00	178.19	119.69	278.91	0.00	0.00	465.50	68.00
928C	698.40	861.61	0.00	9.01	148.63	99.83	232.64	0.00	0.00	371.50	60.00
930	1037.52	253.55	0.00	0.00	67.35	45.24	105.42	35.54	0.00	0.00	99.00
931	1117.34	841.50	0.00	0.00	120.95	81.24	189.31	0.00	0.00	450.00	86.75
932	1506.96	791.62	0.00	0.00	244.56	164.27	382.79	0.00	0.00	0.00	117.00
933	656.88	341.19	0.00	0.00	104.29	70.05	163.24	3.61	0.00	0.00	51.00
936	1606.78	1184.61	0.00	0.00	235.51	158.19	368.61	18.80	0.00	403.50	124.75
942	136.24	38.81	0.00	0.00	11.99	8.05	18.77	0.00	0.00	0.00	13.00
944	1764.56	350.88	0.00	0.00	108.40	72.81	169.67	0.00	0.00	0.00	137.00
945	560.28	612.65	0.00	0.00	189.27	127.13	296.25	0.00	0.00	0.00	43.50
948	933.80	445.32	0.00	0.00	137.58	92.41	215.33	0.00	0.00	0.00	72.50
950	833.98	1599.95	0.00	0.00	206.55	138.74	323.30	409.86	0.00	521.50	64.75
951	1130.22	1063.05	0.00	0.00	181.03	121.60	283.35	477.07	0.00	0.00	87.75
952	1223.60	444.33	0.00	0.00	137.27	92.20	214.86	0.00	0.00	0.00	95.00
953	668.10	1077.34	0.00	0.00	171.72	115.34	268.78	0.00	0.00	521.50	63.75
954	247.94	546.40	0.00	0.00	168.80	113.38	264.22	0.00	0.00	0.00	19.25
B-009	0.00	1958.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1958.50	0.00
(24) GREE	**624,518.75**	**485,787.63**	**97,607.33**	**4,915.93**	**50,634.09**	**34,010.91**	**79,182.10**	**102,674.33**	**9,695.09**	**107,067.85**	**47,705.75**
(4) NORTH	**624,518.75**	**485,787.63**	**97,607.33**	**4,915.93**	**50,634.09**	**34,010.91**	**79,182.10**	**102,674.33**	**9,695.09**	**107,067.85**	**47,705.75**

HIGHWAY EXPENDITURES/REVENUE COMPARISON - 2019

EXPENDITURES		REVENUES				
40	Expenses at	45	Revenues at	5.00%	2019 Total to the good	
50	Should be at	50	Should be at	7.00%	2018 Total to the good	June
10.00%	To the good	5.00%	Under			

Account No/Description		Adjusted Budget	Y-T-D Encumb	Period Expended	Y-T-D Expended	Available Balance	Percent Used
19 YEAR 3							
211 County Roads and Bridges							
53009							
19-211-29-53009-000-000	County Supervision	118,778.00	.00	.00	.00	118,778.00	.00
53009		**118,778.00**	**.00**	**.00**	**.00**	**118,778.00**	**.00**
53309 County Supervision							
19-211-29-53309-219-000	County Supervision	.00	.00	77,592.19	77,592.19	-77,592.19	.00
53309 County Supervision		**.00**	**.00**	**77,592.19**	**77,592.19**	**-77,592.19**	**.00**
53310 General Mtn. C.T.H's							
19-211-29-53310-219-000	General Maintenance - CTH's	1,046,237.00	.00	440,759.56	440,759.56	605,477.44	42.13
53310 General Mtn. C.T.H's		**1,046,237.00**	**.00**	**440,759.56**	**440,759.56**	**605,477.44**	**42.13**
53311 C.T.H's Winter Mtn.							
19-211-29-53311-219-000	Winter Maintenance - CTH's	700,526.00	.00	661,516.39	661,516.39	39,009.61	94.43
53311 C.T.H's Winter Mtn.		**700,526.00**	**.00**	**661,516.39**	**661,516.39**	**39,009.61**	**94.43**
53312 C.T.H's Bridge Mtn & Insp CTH's							
19-211-29-53312-219-000	Bridge Maintenance & Inspection - CTH's	10,497.00	.00	.00	.00	10,497.00	.00
53312 C.T.H's Bridge Mtn & Insp CTH's		**10,497.00**	**.00**	**.00**	**.00**	**10,497.00**	**.00**
53313 Reconstruction							
19-211-29-53313-219-000	Reconstruction - CTH's	1,255,372.00	.00	120,465.88	120,465.88	1,134,906.12	9.60
53313 Reconstruction		**1,255,372.00**	**.00**	**120,465.88**	**120,465.88**	**1,134,906.12**	**9.60**
53315 Chip Seal Coat							
19-211-29-53315-219-000	Chip Seal Coat	247,734.00	.00	834.02	834.02	246,899.98	.34
53315 Chip Seal Coat		**247,734.00**	**.00**	**834.02**	**834.02**	**246,899.98**	**.34**
53317 Bridge Construction - CTH's							
19-211-29-53317-219-000	Bridge Construction CTH's	83,804.00	.00	14,210.85	14,210.85	69,593.15	16.96
53317 Bridge Construction - CTH's		**83,804.00**	**.00**	**14,210.85**	**14,210.85**	**69,593.15**	**16.96**
53591 Railroad							
19-211-29-53591-000-000	Railroad Consortium	25,000.00	.00	25,000.00	25,000.00	.00	100.00
53591 Railroad		**25,000.00**	**.00**	**25,000.00**	**25,000.00**	**.00**	**100.00**
29 Highway		**3,487,948.00**	**.00**	**1,340,378.89**	**1,340,378.89**	**2,147,569.11**	**38.43**
211 County Roads and Bridges		**3,487,948.00**	**.00**	**1,340,378.89**	**1,340,378.89**	**2,147,569.11**	**38.43**

Account No/Description		Adjusted Budget	Y-T-D Encumb	Period Expended	Y-T-D Expended	Available Balance	Percent Used
19 YEAR 3							
701 Highway							
53110 Highway Administration							
19-701-29-53110-110-000	Salaries	152,737.00	.00	59,993.44	59,993.44	92,743.56	39.28
19-701-29-53110-120-000	Wages	.00	.00	645.92	645.92	-645.92	.00
19-701-29-53110-125-000	Overtime	.00	.00	5,432.26	5,432.26	-5,432.26	.00
19-701-29-53110-130-000	Employee Benefits	61,931.00	.00	40,731.46	40,731.46	21,199.54	65.77
19-701-29-53110-213-000	Accounting & Auditing	2,000.00	.00	.00	.00	2,000.00	.00
19-701-29-53110-225-000	Telephone	3,468.00	.00	1,669.96	1,669.96	1,798.04	48.15
19-701-29-53110-242-000	Print Management	509.00	.00	26.12	26.12	482.88	5.13
19-701-29-53110-310-000	Office Supplies	3,354.00	.00	331.23	331.23	3,022.77	9.88
19-701-29-53110-311-000	Postage	.00	.00	90.93	90.93	-90.93	.00
19-701-29-53110-320-000	Publications	1,204.00	.00	936.50	936.50	267.50	77.78
19-701-29-53110-325-000	Registrations & Conventions	520.00	.00	310.00	310.00	210.00	59.62
19-701-29-53110-335-000	Meals	75.00	.00	.00	.00	75.00	.00
19-701-29-53110-336-000	Lodging	700.00	.00	-299.41	-299.41	999.41	-42.77
19-701-29-53110-350-000	Repair & Maintenance	2,800.00	.00	1,864.43	1,864.43	935.57	66.59
19-701-29-53110-532-000	Building & Grounds Allocation	6,228.00	.00	.00	.00	6,228.00	.00
19-701-29-53110-540-000	Depreciation & Amortization	3,282.00	.00	.00	.00	3,282.00	.00
53110 Highway Administration		**238,808.00**	**.00**	**111,732.84**	**111,732.84**	**127,075.16**	**46.79**
53191 Supervision							
19-701-29-53191-000-000	Supervision	300.00	.00	28.32	28.32	271.68	9.44
19-701-29-53191-110-000	Salaries	67,142.00	.00	29,655.65	29,655.65	37,486.35	44.17
19-701-29-53191-120-000	Wages	186.00	.00	124.35	124.35	61.65	66.85
19-701-29-53191-130-000	Employee Benefits	27,037.00	.00	20,003.24	20,003.24	7,033.76	73.98
19-701-29-53191-225-000	Telephone	649.00	.00	200.10	200.10	448.90	30.83
19-701-29-53191-335-000	Meals	25.00	.00	.00	.00	25.00	.00
19-701-29-53191-350-000	Repair & Maintenance	6,990.00	.00	4,074.57	4,074.57	2,915.43	58.29
19-701-29-53191-534-000	Machinery Rental	18,504.00	.00	8,469.44	8,469.44	10,034.56	45.77
53191 Supervision		**120,833.00**	**.00**	**62,555.67**	**62,555.67**	**58,277.33**	**51.77**
53192 Radio Expenses							
19-701-29-53192-206-000	Maintenance Contracts	2,055.00	.00	685.00	685.00	1,370.00	33.33
19-701-29-53192-225-000	Telephone	1,200.00	.00	521.86	521.86	678.14	43.49
19-701-29-53192-314-000	Small Items of Equipment	1,200.00	.00	.00	.00	1,200.00	.00
19-701-29-53192-350-000	Repair & Maintenance	149.00	.00	850.66	850.66	-701.66	**
53192 Radio Expenses		**4,604.00**	**.00**	**2,057.52**	**2,057.52**	**2,546.48**	**44.69**
53193 General Public Liability							
19-701-29-53193-509-000	Public Liability	21,563.00	.00	.00	.00	21,563.00	.00
53193 General Public Liability		**21,563.00**	**.00**	**.00**	**.00**	**21,563.00**	**.00**
53210 Employee Taxes and Benefits Cost Pool							
19-701-29-53210-110-000	Salaries	.00	.00	10,612.19	10,612.19	-10,612.19	.00
19-701-29-53210-120-000	Wages	.00	.00	5,193.20	5,193.20	-5,193.20	.00

Account No/Description		Adjusted Budget	Y-T-D Encumb	Period Expended	Y-T-D Expended	Available Balance	Percent Used
19 YEAR 3							
701 Highway							
53210 Employee Taxes and Benefits Cost Pool							
19-701-29-53210-125-000	Overtime	.00	.00	4,426.92	4,426.92	-4,426.92	.00
19-701-29-53210-131-000	Sick Leave Pay	.00	.00	7,195.81	7,195.81	-7,195.81	.00
19-701-29-53210-132-000	Vacation Pay	.00	.00	14,933.08	14,933.08	-14,933.08	.00
19-701-29-53210-134-000	Holiday Pay	.00	.00	13,772.68	13,772.68	-13,772.68	.00
19-701-29-53210-135-000	Floating Holiday	.00	.00	3,130.12	3,130.12	-3,130.12	.00
19-701-29-53210-137-100	Comp-Accumulated	.00	.00	-19,810.93	-19,810.93	19,810.93	.00
19-701-29-53210-137-300	Comp - Use	.00	.00	3,302.39	3,302.39	-3,302.39	.00
19-701-29-53210-138-000	Other - leave with pay	.00	.00	3,312.75	3,312.75	-3,312.75	.00
19-701-29-53210-151-000	Social Security	.00	.00	46,542.25	46,542.25	-46,542.25	.00
19-701-29-53210-153-000	Ret. Employer Share	.00	.00	41,661.38	41,661.38	-41,661.38	.00
19-701-29-53210-154-000	Health Insurance	.00	.00	163,890.46	163,890.46	-163,890.46	.00
19-701-29-53210-155-000	Life Insurance	.00	.00	1,398.24	1,398.24	-1,398.24	.00
19-701-29-53210-910-000	Employee Taxes & Benefits	.00	.00	-392,588.14	-392,588.14	392,588.14	.00
	53210 Employee Taxes and Benefits Cost Pool	**.00**	**.00**	**-93,027.60**	**-93,027.60**	**93,027.60**	**.00**
53220 Field Small Tools Cost Pool							
19-701-29-53220-130-120	Employee Benefits	.00	.00	206.37	206.37	-206.37	.00
19-701-29-53220-130-121	Employee Benefit	.00	.00	164.40	164.40	-164.40	.00
19-701-29-53220-362-120	Consumable Small Tools-Field	.00	.00	2,086.69	2,086.69	-2,086.69	.00
19-701-29-53220-362-121	Consumable Small Tools-Safety	.00	.00	7,563.63	7,563.63	-7,563.63	.00
19-701-29-53220-362-122	Consumable Small Tools-Traffic	.00	.00	177.00	177.00	-177.00	.00
19-701-29-53220-920-000	Small Field Tools	.00	.00	-11,131.97	-11,131.97	11,131.97	.00
	53220 Field Small Tools Cost Pool	**.00**	**.00**	**-933.88**	**-933.88**	**933.88**	**.00**
53230 Shop Operations Cost Pool							
19-701-29-53230-000-000	Shop Operations	.00	.00	1,266.79	1,266.79	-1,266.79	.00
19-701-29-53230-120-000	Wages	.00	.00	34,805.54	34,805.54	-34,805.54	.00
19-701-29-53230-125-000	Overtime	.00	.00	119.19	119.19	-119.19	.00
19-701-29-53230-130-000	Employee Benefits	.00	.00	23,458.94	23,458.94	-23,458.94	.00
19-701-29-53230-225-000	Telephone	.00	.00	966.05	966.05	-966.05	.00
19-701-29-53230-240-000	Contracted Maintenance	.00	.00	327.97	327.97	-327.97	.00
19-701-29-53230-310-000	Office Supplies	.00	.00	165.33	165.33	-165.33	.00
19-701-29-53230-314-000	Small Items of Equipment	.00	.00	12,974.24	12,974.24	-12,974.24	.00
19-701-29-53230-325-000	Registrations & Conventions	.00	.00	59.00	59.00	-59.00	.00
19-701-29-53230-340-000	Operating Supplies	.00	.00	5,047.77	5,047.77	-5,047.77	.00
19-701-29-53230-345-000	Shop Supplies	.00	.00	5,582.07	5,582.07	-5,582.07	.00
19-701-29-53230-350-000	Repair & Maintenance	.00	.00	2,265.20	2,265.20	-2,265.20	.00
19-701-29-53230-534-000	Machinery Rental	.00	.00	194.79	194.79	-194.79	.00
	53230 Shop Operations Cost Pool	**.00**	**.00**	**87,232.88**	**87,232.88**	**-87,232.88**	**.00**
53232 Fuel Handling Cost Pool							
19-701-29-53232-000-000	Fuel Handling	.00	.00	1,237.50	1,237.50	-1,237.50	.00

Account No/Description		Adjusted Budget	Y-T-D Encumb	Period Expended	Y-T-D Expended	Available Balance	Percent Used
19 YEAR 3							
701 Highway							
53232 Fuel Handling Cost Pool							
19-701-29-53232-120-000	Wages	.00	.00	175.28	175.28	-175.28	.00
19-701-29-53232-125-000	Overtime	.00	.00	8.67	8.67	-8.67	.00
19-701-29-53232-130-000	Employee Benefits	.00	.00	123.56	123.56	-123.56	.00
19-701-29-53232-225-000	Telephone	.00	.00	546.27	546.27	-546.27	.00
19-701-29-53232-350-000	Repair & Maintenance	.00	.00	2,365.20	2,365.20	-2,365.20	.00
19-701-29-53232-931-000	Fuel Handling Revenue	.00	.00	-4,430.08	-4,430.08	4,430.08	.00
53232 Fuel Handling Cost Pool		**.00**	**.00**	**26.40**	**26.40**	**-26.40**	**.00**
53240 Machinery Operating Cost Pool							
19-701-29-53240-120-000	Wages	.00	.00	48,585.90	48,585.90	-48,585.90	.00
19-701-29-53240-125-000	Overtime	.00	.00	2,063.96	2,063.96	-2,063.96	.00
19-701-29-53240-130-000	Employee Benefits	.00	.00	34,021.43	34,021.43	-34,021.43	.00
19-701-29-53240-350-000	Repair & Maintenance	.00	.00	200,212.12	200,212.12	-200,212.12	.00
19-701-29-53240-534-000	Machinery Rental	.00	.00	3,443.16	3,443.16	-3,443.16	.00
19-701-29-53240-940-000	Mach. Operation Rev.	.00	.00	-624,536.21	-624,536.21	624,536.21	.00
53240 Machinery Operating Cost Pool		**.00**	**.00**	**-336,209.64**	**-336,209.64**	**336,209.64**	**.00**
53270 Buildings & Ground Operations Cost Pool							
19-701-29-53270-000-000	Bldgs. & Grounds Operations	.00	.00	518.81	518.81	-518.81	.00
19-701-29-53270-120-000	Wages	.00	.00	13,939.59	13,939.59	-13,939.59	.00
19-701-29-53270-125-000	Overtime	.00	.00	135.08	135.08	-135.08	.00
19-701-29-53270-130-000	Employee Benefits	.00	.00	9,453.95	9,453.95	-9,453.95	.00
19-701-29-53270-220-000	Utilities	.00	.00	16,133.67	16,133.67	-16,133.67	.00
19-701-29-53270-240-000	Contracted Maintenance	.00	.00	8,201.98	8,201.98	-8,201.98	.00
19-701-29-53270-245-000	Building & Ground Improvements	.00	.00	2,670.59	2,670.59	-2,670.59	.00
19-701-29-53270-344-000	Janitorial Supplies	.00	.00	130.52	130.52	-130.52	.00
19-701-29-53270-350-000	Repair & Maintenance	.00	.00	4,623.46	4,623.46	-4,623.46	.00
19-701-29-53270-534-000	Machinery Rental	.00	.00	5,607.87	5,607.87	-5,607.87	.00
53270 Buildings & Ground Operations Cost Pool		**.00**	**.00**	**61,415.52**	**61,415.52**	**-61,415.52**	**.00**
53271 Salt Sheds Cost Pool							
19-701-29-53271-120-000	Wages	.00	.00	5,900.56	5,900.56	-5,900.56	.00
19-701-29-53271-125-000	Overtime	.00	.00	8.67	8.67	-8.67	.00
19-701-29-53271-130-000	Employee Benefits	.00	.00	3,969.24	3,969.24	-3,969.24	.00
19-701-29-53271-245-000	Bldg. & Ground Improvement	.00	.00	9,061.48	9,061.48	-9,061.48	.00
19-701-29-53271-534-000	Machinery Rental	.00	.00	1,332.29	1,332.29	-1,332.29	.00
53271 Salt Sheds Cost Pool		**.00**	**.00**	**20,272.24**	**20,272.24**	**-20,272.24**	**.00**
53281 Capital Equipment							
19-701-29-53281-810-000	Capital Equipment	340,569.00	27,374.30	87,324.32	87,324.32	225,870.38	33.68
53281 Capital Equipment		**340,569.00**	**27,374.30**	**87,324.32**	**87,324.32**	**225,870.38**	**33.68**
53309 County Supervision							
19-701-29-53309-110-000	Salaries	67,142.00	.00	33,847.32	33,847.32	33,294.68	50.41

Account No/Description		Adjusted Budget	Y-T-D Encumb	Period Expended	Y-T-D Expended	Available Balance	Percent Used
19 YEAR 3							
701 Highway							
53309 County Supervision							
19-701-29-53309-120-000	Wages	.00	.00	503.86	503.86	-503.86	.00
19-701-29-53309-130-000	Employee Benefits	32,256.00	.00	23,073.70	23,073.70	9,182.30	71.53
19-701-29-53309-225-000	Telephone	800.00	.00	236.08	236.08	563.92	29.51
19-701-29-53309-310-000	Office Supplies	200.00	.00	28.32	28.32	171.68	14.16
19-701-29-53309-325-000	Registration & Conventions	.00	.00	59.00	59.00	-59.00	.00
19-701-29-53309-350-000	Repair & Maintenance	4,700.00	.00	8,741.56	8,741.56	-4,041.56	185.99
19-701-29-53309-534-000	Machinery Rentals	8,500.00	.00	7,305.76	7,305.76	1,194.24	85.95
53309 County Supervision		**113,598.00**	**.00**	**73,795.60**	**73,795.60**	**39,802.40**	**64.96**
53310 General Mtn. C.T.H's							
19-701-29-53310-101-000	CTH's General Maintenance	.00	.00	91.26	91.26	-91.26	.00
19-701-29-53310-101-120	Wages	213,681.00	.00	72,087.52	72,087.52	141,593.48	33.74
19-701-29-53310-101-125	Overtime	6,674.00	.00	1,541.85	1,541.85	5,132.15	23.10
19-701-29-53310-101-130	Benefits	110,659.00	.00	49,381.09	49,381.09	61,277.91	44.62
19-701-29-53310-101-350	Repair & Maintenance	8,440.00	.00	1,814.00	1,814.00	6,626.00	21.49
19-701-29-53310-101-362	Consumable Small Tool	6,620.00	.00	2,335.09	2,335.09	4,284.91	35.27
19-701-29-53310-101-370	Road Supplies	114,852.00	.00	38,788.53	38,788.53	76,063.47	33.77
19-701-29-53310-101-534	Equipment/Machinery	146,140.00	.00	66,794.78	66,794.78	79,345.22	45.71
19-701-29-53310-102-000	CTH Marking/Signing	.00	.00	2,878.67	2,878.67	-2,878.67	.00
19-701-29-53310-102-120	Wages	30,973.00	.00	10,075.79	10,075.79	20,897.21	32.53
19-701-29-53310-102-125	Overtime	967.00	.00	199.63	199.63	767.37	20.64
19-701-29-53310-102-130	Benefits	16,040.00	.00	6,977.73	6,977.73	9,062.27	43.50
19-701-29-53310-102-350	Repair & Maintenance	.00	.00	83.95	83.95	-83.95	.00
19-701-29-53310-102-362	Consumanble Small Tool	960.00	.00	329.97	329.97	630.03	34.37
19-701-29-53310-102-370	Road Supplies	83,573.00	.00	76,418.02	76,418.02	7,154.98	91.44
19-701-29-53310-102-534	Equipment/Machinery	13,837.00	.00	8,902.79	8,902.79	4,934.21	64.34
19-701-29-53310-103-120	Wages	14,576.00	.00	.00	.00	14,576.00	.00
19-701-29-53310-103-125	Overtime	2,504.00	.00	.00	.00	2,504.00	.00
19-701-29-53310-103-130	Benefits	7,548.00	.00	.00	.00	7,548.00	.00
19-701-29-53310-103-362	Consumable Small Tool	442.00	.00	.00	.00	442.00	.00
19-701-29-53310-103-370	Road Supplies	12,972.00	.00	.00	.00	12,972.00	.00
19-701-29-53310-103-534	Equipment/Machinery	14,894.00	.00	.00	.00	14,894.00	.00
19-701-29-53310-104-120	Wages	80,167.00	.00	10,692.28	10,692.28	69,474.72	13.34
19-701-29-53310-104-125	OT	.00	.00	16.84	16.84	-16.84	.00
19-701-29-53310-104-130	Benefits	41,516.00	.00	7,193.31	7,193.31	34,322.69	17.33
19-701-29-53310-104-362	Consumable Small Tool	2,484.00	.00	340.14	340.14	2,143.86	13.69
19-701-29-53310-104-370	Road Supplies	51,000.00	.00	2,241.58	2,241.58	48,758.42	4.40
19-701-29-53310-104-534	Equipment/Machinery	19,090.00	.00	7,477.38	7,477.38	11,612.62	39.17
19-701-29-53310-110-120	Wages - March Flooding 2019	.00	.00	13,050.83	13,050.83	-13,050.83	.00
19-701-29-53310-110-125	Overtime - March Flooding 2019	.00	.00	1,261.66	1,261.66	-1,261.66	.00

Account No/Description		Adjusted Budget	Y-T-D Encumb	Period Expended	Y-T-D Expended	Available Balance	Percent Used
19 YEAR 3							
701 Highway							
53310 General Mtn. C.T.H's							
19-701-29-53310-110-130	Benefits - March Flooding 2019	.00	.00	9,613.70	9,613.70	-9,613.70	.00
19-701-29-53310-110-362	Consumable Small Tools - March Flooding	.00	.00	454.62	454.62	-454.62	.00
19-701-29-53310-110-370	Road Supplies	.00	.00	7,957.66	7,957.66	-7,957.66	.00
19-701-29-53310-110-534	Equipment/Machinery - March Flooding	.00	.00	22,219.15	22,219.15	-22,219.15	.00
53310 General Mtn. C.T.H's		**1,000,609.00**	**.00**	**421,219.82**	**421,219.82**	**579,389.18**	**42.10**
53311 C.T.H's Winter Mtn.							
19-701-29-53311-000-000	Winter Maintenance-CTH's	.00	.00	218.93	218.93	-218.93	.00
19-701-29-53311-120-000	Wages	153,046.00	.00	85,161.26	85,161.26	67,884.74	55.64
19-701-29-53311-125-000	Overtime	13,139.00	.00	28,253.70	28,253.70	-15,114.70	**
19-701-29-53311-130-000	Employee Benefits	79,258.00	.00	76,180.84	76,180.84	3,077.16	96.12
19-701-29-53311-350-000	Repair & Maintenance	.00	.00	-90.54	-90.54	90.54	.00
19-701-29-53311-362-000	Consumable Small Tools	4,909.00	.00	3,602.34	3,602.34	1,306.66	73.38
19-701-29-53311-370-000	Road supplies	200,000.00	.00	175,194.57	175,194.57	24,805.43	87.60
19-701-29-53311-534-000	Machinery Rental	219,623.00	.00	266,108.04	266,108.04	-46,485.04	121.17
53311 C.T.H's Winter Mtn.		**669,975.00**	**.00**	**634,629.14**	**634,629.14**	**35,345.86**	**94.72**
53312 C.T.H's Bridge Mtn & Insp CTH's							
19-701-29-53312-120-000	Wages	6,377.00	.00	.00	.00	6,377.00	.00
19-701-29-53312-130-000	Employee Benefits	3,302.00	.00	.00	.00	3,302.00	.00
19-701-29-53312-362-000	Consumable Small Tools	194.00	.00	.00	.00	194.00	.00
19-701-29-53312-534-000	Machinery Rental	166.00	.00	.00	.00	166.00	.00
53312 C.T.H's Bridge Mtn & Insp CTH's		**10,039.00**	**.00**	**.00**	**.00**	**10,039.00**	**.00**
53313 Reconstruction							
19-701-29-53313-000-000	Reconstruction-CTH's	1,200,624.00	.00	114,436.58	114,436.58	1,086,187.42	9.53
53313 Reconstruction		**1,200,624.00**	**.00**	**114,436.58**	**114,436.58**	**1,086,187.42**	**9.53**
53315 Chip Seal Coat							
19-701-29-53315-000-000	Chip Seal Coat	236,930.00	.00	797.65	797.65	236,132.35	.34
53315 Chip Seal Coat		**236,930.00**	**.00**	**797.65**	**797.65**	**236,132.35**	**.34**
53317 Bridge Construction - CTH's							
19-701-29-53317-000-000	Bridge Construction - CTH's	80,149.00	.00	103,161.42	103,161.42	-23,012.42	128.71
53317 Bridge Construction - CTH's		**80,149.00**	**.00**	**103,161.42**	**103,161.42**	**-23,012.42**	**128.71**
53321 Routine Maintenance							
19-701-29-53321-000-000	Routine Maintenance - State	34,500.00	.00	6,926.29	6,926.29	27,573.71	20.08
19-701-29-53321-120-000	Wages	182,197.00	.00	59,007.91	59,007.91	123,189.09	32.39
19-701-29-53321-125-000	Overtime	5,691.00	.00	13,587.00	13,587.00	-7,896.00	**
19-701-29-53321-130-000	Employee Benefits	94,355.00	.00	48,762.03	48,762.03	45,592.97	51.68
19-701-29-53321-350-000	Repair & Maintenance	.00	.00	3,976.42	3,976.42	-3,976.42	.00
19-701-29-53321-362-000	Consumable Small Tools	5,645.00	.00	2,305.76	2,305.76	3,339.24	40.85
19-701-29-53321-370-000	Road Supplies	28,000.00	.00	4,069.68	4,069.68	23,930.32	14.53
19-701-29-53321-534-000	Machinery Repair	109,971.00	.00	119,660.89	119,660.89	-9,689.89	108.81

Account No/Description		Adjusted Budget	Y-T-D Encumb	Period Expended	Y-T-D Expended	Available Balance	Percent Used
19 YEAR 3							
701 Highway							
53321 Routine Maintenance							
53321 Routine Maintenance		**460,359.00**	**.00**	**258,295.98**	**258,295.98**	**202,063.02**	**56.11**
53333 Cities, Towns, Villages							
19-701-29-53333-000-000	Cities, Towns, Villages, Intra-County	.00	.00	1,867.27	1,867.27	-1,867.27	.00
19-701-29-53333-120-000	Wages	63,769.00	.00	15,639.11	15,639.11	48,129.89	24.52
19-701-29-53333-125-000	Overtime	.00	.00	4,727.26	4,727.26	-4,727.26	.00
19-701-29-53333-130-000	Employee Benefits	33,024.00	.00	13,680.10	13,680.10	19,343.90	41.42
19-701-29-53333-350-000	Repair & Maintenance	47,057.00	.00	41,228.07	41,228.07	5,828.93	87.61
19-701-29-53333-362-000	Consumable Small Tools	1,936.00	.00	656.91	656.91	1,279.09	33.93
19-701-29-53333-370-000	Road Supplies	200,000.00	.00	116,433.54	116,433.54	83,566.46	58.22
19-701-29-53333-534-000	Machinery Rental	90,000.00	.00	52,774.00	52,774.00	37,226.00	58.64
53333 Cities, Towns, Villages		**435,786.00**	**.00**	**247,006.26**	**247,006.26**	**188,779.74**	**56.68**
53334 Interdepartment Charges							
19-701-29-53334-000-000	Interdepartmental Charges	90,000.00	.00	31,935.25	31,935.25	58,064.75	35.48
53334 Interdepartment Charges		**90,000.00**	**.00**	**31,935.25**	**31,935.25**	**58,064.75**	**35.48**
29 Highway		**5,024,446.00**	**27,374.30**	**1,887,723.97**	**1,887,723.97**	**3,109,347.73**	**38.12**
701 Highway		**5,024,446.00**	**27,374.30**	**1,887,723.97**	**1,887,723.97**	**3,109,347.73**	**38.12**
19 YEAR 3		**8,512,394.00**	**27,374.30**	**3,228,102.86**	**3,228,102.86**	**5,256,916.84**	**38.24**

GREEN LAKE COUNTY

Revenue Summary Report

Hwy Revenue Summary

Account No/Description	Budget Amount	Period Amount	Y-T-D Amount	Balance	Percent Received
19 YEAR 3					
211 County Roads and Bridges					
29 Highway					
19-211-29-41110-000-000 General Property Taxes	2,682,751.00	2,682,751.00	2,682,751.00	.00	100.00
19-211-29-43531-000-000 CTH's Revenue from State	805,197.00	250,822.06	250,822.06	554,374.94	31.15
29 Highway	3,487,948.00	2,933,573.06	2,933,573.06	554,374.94	84.11
211 County Roads and Bridges	3,487,948.00	2,933,573.06	2,933,573.06	554,374.94	84.11

Account No/Description	Budget Amount	Period Amount	Y-T-D Amount	Balance	Percent Received
19 YEAR 3					
701 Highway					
29 Highway					
19-701-29-43531-001-000 CHIP Program	2,163.00	.00	.00	2,163.00	.00
19-701-29-44201-000-000 Off Pavement Utility Fee	2,200.00	975.00	975.00	1,225.00	44.32
19-701-29-44205-000-000 Driveway/Variance	2,000.00	200.00	200.00	1,800.00	10.00
19-701-29-44260-000-000 Oversize/Overweight Permits	800.00	425.00	425.00	375.00	53.13
19-701-29-44261-000-000 Multi-Trip Permits	2,000.00	1,500.00	1,500.00	500.00	75.00
19-701-29-47231-000-000 Routine Maintenance	440,282.00	228,292.97	228,292.97	211,989.03	51.85
19-701-29-47239-000-000 Other - Sup. R&R-Radio-GPL etc	97,191.00	61,790.35	61,790.35	35,400.65	63.58
19-701-29-47292-000-000 State - Admin	24,293.00	11,486.01	11,486.01	12,806.99	47.28
19-701-29-47300-000-000 Cities, Villages, Towns, Cty.	416,781.00	186,587.56	186,587.56	230,193.44	44.77
19-701-29-47392-000-000 Local - Admin Charges	19,005.00	8,015.36	8,015.36	10,989.64	42.18
19-701-29-47410-000-000 Interdepartmental Invoicing	90,000.00	24,338.21	24,338.21	65,661.79	27.04
19-701-29-47430-000-000 Charges for Services - CTH's	3,330,587.00	1,258,027.51	1,258,027.51	2,072,559.49	37.77
19-701-29-47492-000-000 CTH's - Admin	151,875.00	57,792.05	57,792.05	94,082.95	38.05
19-701-29-48000-000-000 Miscellaneous Revenues	83,481.00	48,268.02	48,268.02	35,212.98	57.82
19-701-29-48330-000-000 Sale of Materials & Supplies	3,500.00	118.75	118.75	3,381.25	3.39
19-701-29-48400-000-000 Insurance Recoveries	1,600.00	1,667.09	1,667.09	-67.09	104.19
19-701-29-48440-000-000 Revenue from Cost of Sales	14,000.00	12,953.83	12,953.83	1,046.17	92.53
29 Highway	4,681,758.00	1,902,437.71	1,902,437.71	2,779,320.29	40.64
701 Highway	4,681,758.00	1,902,437.71	1,902,437.71	2,779,320.29	40.64
19 YEAR 3	8,169,706.00	4,836,010.77	4,836,010.77	3,333,695.23	59.19

GREEN LAKE COUNTY
6-YEAR
HIGHWAY IMPROVEMENT PLAN
2018-2023

2018

Reconstruction:		Project Limits	Location	PASER Rating	PASER Year	Traffic Count	Traffic Year	IMPROVEMENT ESTIMATE
CTH AW	3.5 Miles	Columbia Co. Line - Dodge Co. Line	Town of Mackford	3	2015	1532	2016	$1,624,000.00
TOTAL	**3.5 Miles**							
Overlay:								
CTH 0	1.5 Miles	Lovers Lane- Bridge Street	Town of Mackford	7	2015			$94,500.00
TOTAL	**1.5 Miles**			8	2015			$75,600.00
								$170,100.00
Chip Seal:								
CTH H	3.1 Miles	STH 73 – STH 44	Town of Green Lake					
CTH T	7.5 Miles	STH 23 – Bend Road	Town of Princeton					
CTH W	2.8 Miles	STH 23/73 – CTH D	Town of Princeton					
TOTAL	**13.4 Miles**				**TOTAL:**			**$1,794,100.00**

2019

Reconstruction:		Project Limits	Location	PASER Rating	PASER Year	Traffic Count	Traffic Year	IMPROVEMENT ESTIMATE
CTH CC	3.75 Miles	CTH J to CTH J	Town of Saint Marie	1	2015	120	2015	$638,750.00
CTH S	1.2 Miles	RR Spur - CTH Q	Town of Mackford	2	2015	169	2015	$255,500.00
TOTAL	**4.95 Miles**							
Chip Seal:								
CTH A	4.15 Miles	CTH J – CTH AA	Town of Brooklyn/Berlin					
CTH AA	1.01 Miles	CTH A - STH 49	Town of Berlin					
CTH D	4.8 Miles	County Line Rd - Disterhaft	Town of Seneca/St. Marie					
CTH PP	3 Miles	CTH F to FDL Co.	Town of Brooklyn					
TOTAL	**12.96 Miles**							
					TOTAL:			**$894,250.00**

2020

Reconstruction:		Project Limits	Location	PASER Rating	PASER Year	Traffic Count	Traffic Year	IMPROVEMENT ESTIMATE
CTH D	2.25 Miles	City of Princeton – White River Rd	Town of St. Marie	1	2015			$1,266,750.00
CTH D	0.75 Miles	STH 23 – N. City of Princeton	City of Princeton	1	2015	637	2014	$1,150,000.00
TOTAL	**3 Miles**							
				8	2015			$82,500.00
Chip Seal:				7/8	2015			$89,100.00
CTH B	2.7 Miles	CTH 0 – STH 73	Town of Green Lake	5/9	2015			$136,950.00
CTH I	2.5 Miles	STH 73/44 – CTH H	Town of Manchester					**$308,550.00**
CTH N	1 Miles	STH 44 - CTH B	Town of Green Lake					
CTH O	3.21 Miles	Lovers Ln - CTH AW	Town of Mackford					
TOTAL	**9.41 Miles**							

Approved by Highway Committee on: Dec. 13, 2017

GREEN LAKE COUNTY
6-YEAR
HIGHWAY IMPROVEMENT PLAN
2018-2023

2021

Reconstruction:			Project Limits	Location	PASER Rating	PASER Year	Traffic Count	Traffic Year	IMPROVEMENT ESTIMATE	
CTH H	1.71	Miles	Puckaway Rd - CTH B	Town/Village of Marquette						
CTH O	1.75	Miles	CTH B. - CTH K	Town of Green Lake	1/2	2015			$1,060,200.00	
CTH H	1.71	Miles	Puckaway Rd - CTH B	Town/Village of Marquette						-$230,000.00
TOTAL	**3.46**	**Miles**							**$1,060,200.00**	
Chip Seal:					5/7	2015			$222,000.00	
CTH K	6	Miles	CTH N - STH 73	Town of Green Lake	7	2015			$74,000.00	
CTH K	2	Miles	CTH A - FDL Co. Line	Town of Green Lake					**$296,000.00**	
TOTAL	**8**	**Miles**								
						TOTAL:			**#REF!**	

2022

Reconstruction:			Project Limits	Location	PASER Rating	PASER Year	Traffic Count	Traffic Year	IMPROVEMENT ESTIMATE
CTH Q	5	Miles	CTH S - CTH AW	Town of Mackford	2/4	2015	104	2012	$1,023,000.00
TOTAL	**5**	**Miles**							
					2	2015	211	2012	$968,000.00
Chip Seal:									**$968,000.00**
CTH V	5	Miles	CTH A- 37th Ave(FDL Co. Line)	Town of Berlin					
CTH F	5	Miles	Oak Dr. (city of Berlin) - CTH FF	Town of Berlin					
TOTAL	**10**	**Miles**			5	2015			$205,000.00
									$410,000.00

2023

Reconstruction:			Project Limits	Location
CTH I	3.34	Miles	STH 44 - CTH A	Town Manchester/Mackford
TOTAL	**3.34**	**Miles**		
Chip Seal:				
CTH H	1.7	Miles	Puckaway Road – Town Line	Town of Marquette
CTH B	2	Miles	Hilltop Rd – CTH H	Town of Green Lake/Marquette
CTH M	3.5	Miles	County Line - CTH X	Town of Manchester
TOTAL	**7.2**	**Miles**		

Approved by Highway Committee on: Dec. 13, 2017

Rudimentary Needs Analysis

Green Lake

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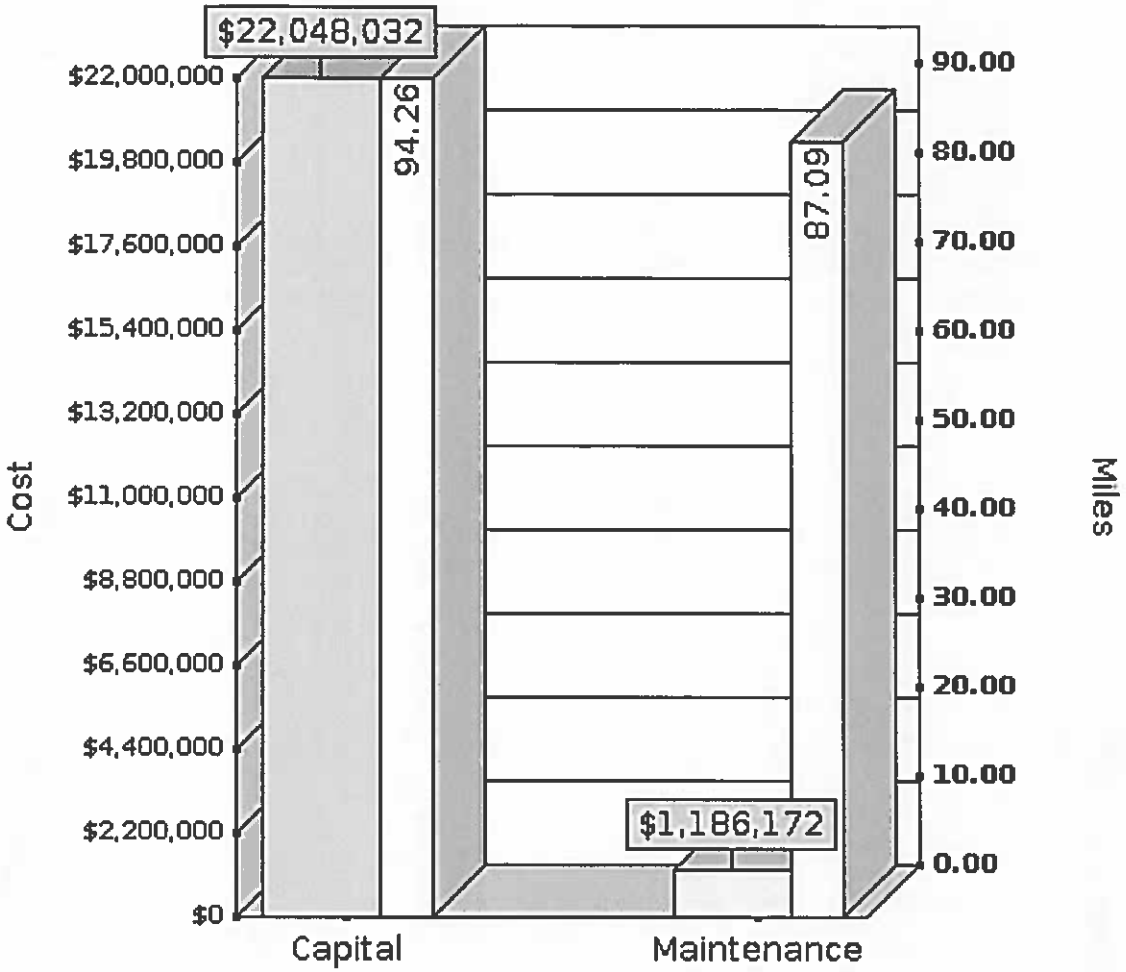

- 0.00% of needs attributed to this year's data
- 0.00% of needs attributed to one year old data
- 100.00% of needs attributed to two year old data
- 0.00% of needs are potentially unreliable - Rating Data > 2 years old
- 0.00% of needs are estimated - No Data
- 0.00% of needs are estimated - Data Too Old (> 5 years old)

***The information shown is based on actual data. Pavement sections without actual rating data were not included in this analysis. There are 228.24 miles of rated roadways and 0.00 miles of unrated roadways. Please note that mileage listed with the graph shown above is the portion of the rated roadway miles indicating need (designated as capital or maintenance).*

Rudimentary Needs Analysis
Green Lake

Roadway Name	Maint. Cost	Capital Cost
CTH A	7461.54	366198.64
CTH A	0.00	69569.17
CTH A	20141.37	0.00
CTH A	0.00	967335.09
CTH AA	39555.29	0.00
CTH AW	0.00	105306.05
CTH AW	0.00	1262041.83
CTH B	50713.14	0.00
CTH B	103351.52	0.00
CTH B	31551.19	0.00
CTH B	19362.32	0.00
CTH BB	923.53	0.00
CTH BB	8411.04	185965.47
CTH C	0.00	66635.74
CTH CC	0.00	55239.25
CTH CC	0.00	1164088.75
CTH D	0.00	884313.97
CTH D	5195.88	582243.93
CTH D	56548.80	745991.38
CTH D	0.00	185148.70
CTH E	0.00	1628768.22
CTH F	422.12	1239030.71
CTH F	0.00	69569.17
CTH F	0.00	540892.25
CTH F	3783.11	0.00
CTH FF	0.00	83209.17
CTH FF	73562.94	41345.89
CTH FF	9594.27	0.00
CTH FFF	8192.31	25740.00
CTH GG	0.00	198500.12
CTH GG	0.00	457147.73
CTH H	17242.23	0.00
CTH H	12557.21	761836.80

***The information shown is based on actual data. Pavement sections without actual rating data were not included in this analysis.*

There are 228.24 miles of rated roadways and 0.00 miles of unrated roadways.

CTH H	18998.12	234747.92
CTH H	0.00	330161.45
CTH H	590.31	0.00
CTH HH	106733.01	150925.87
CTH I	7691.20	0.00
CTH I	0.00	843293.26
CTH I	55393.36	211459.42
CTH II	43362.64	0.00
CTH J	0.00	348564.62
CTH J	0.00	560203.53
CTH J	0.00	1508750.17
CTH JJ	0.00	343481.47
CTH JJ	0.00	95656.00
CTH K	20345.60	0.00
CTH K	123675.10	362678.51
CTH K	7481.03	0.00
CTH K	4988.57	0.00
CTH KK	9635.41	63462.62
CTH N	37699.20	863159.62
CTH O	0.00	623638.37
CTH O	24086.36	552388.16
CTH P	7403.78	0.00
CTH P	1558.82	0.00
CTH Q	0.00	475342.91
CTH S	5397.97	658634.02
CTH S	82556.06	0.00
CTH T	18785.65	468504.96
CTH TT	0.00	443157.06
CTH U	1376.05	0.00
CTH U	1322.93	652367.95
CTH V	22013.81	0.00
CTH VV	0.00	175146.40
CTH W	53273.46	0.00
CTH X	2857.34	0.00
CTH X	26723.25	0.00
CTH X	33653.62	0.00
CTH Y	0.00	396190.08
Total	**1186172.46**	**22048032.40**

***The information shown is based on actual data. Pavement sections without actual rating data were not included in this analysis.*

There are 228.24 miles of rated roadways and 0.00 miles of unrated roadways.

Sorted by Rating

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
0	1	1	70	1966	18	CTH Y jurisdicational transfer	STH 73	Losinski Rd
0	1	1	70	1966	18	CTH Y jurisdicational transfer	Losinski Rd	STH 73
1	1	1	70	1955	20	CTH D	STH 23 / STH 73	Wilson St
1	1	1	70	1955	20	CTH D	Wilson St	First St
1	1	1	70	1966	18	CTH D	Harris St	Old Saint Marie Rd
1	1	1	70	1962	18	CTH H	Sixth St	W Fourth St
1	2	2	70	1966	20	CTH O	Lovers Ln	Hickory Dr
1			70	2014	20	CTH S	CTH A	CTH Q
1	1	1	70	1966	20	CTH U	Zink Rd	Lovers Ln
1	1	1	70	1966	20	CTH U	Lovers Ln	CTH I
1	1	1	70	1966	18	CTH Y	Eagle Rd / STH 73	Black Creek Rd
2			65	1990	24	CTH A	CTH AW	CTH AW
2			70	2012	22	CTH A	CTH AW	CTH AW
2	2	2	70	1966	20	CTH A	CTH AA / Dead End Rd	E River Rd
2	2	2	70	1991	22	CTH A	CTH AA / Dead End Rd	E River Rd
2	3	3	70	1971	22	CTH AW	Old STH 73 Private / CTH AW	Medick Rd / CTH AW
2	3	3	70	1971	22	CTH AW	Old STH 73 Private / CTH AW	Medick Rd / CTH AW
2	3	3	70	1971	22	CTH AW	Medick Rd / CTH AW	CTH O / CTH AW
2	3	3	70	1971	22	CTH AW	Mich Rd / CTH AW	CTH A / CTH AW
2	3	3	70	1967	22	CTH AW	Mich Rd / CTH AW	CTH A / CTH AW
2	3	4	70	2012	22	CTH AW	CTH A / CTH AW	CTH A / CTH AW
2	7	8	65	2009	18	CTH BB	CTH B	CTH B / STH 73
2	2	2	70	1966	20	CTH CC	CTH J / Swamp Rd	Pine Rd
2	2	2	70	1966	20	CTH CC	Pine Rd	Huckleberry Rd
2	2	2	70	1966	20	CTH CC	Huckleberry Rd	Puchyan Marsh Rd
2	2	2	70	1966	20	CTH CC	Puchyan Marsh Rd	CTH J
2	2	2	70	1966	20	CTH CC	Puchyan Marsh Rd	CTH J
2	2	2	65	1994	22	CTH E	South Rd	CTH F
2	3	3	70	1999	22	CTH F	Forest Ridge Rd / Ripon Rd / CTH	Oak Dr
2	2	2	70	1977	20	CTH GG	CTH HH	Inglehart Rd
2	2	2	70	1977	20	CTH GG	CTH HH	Inglehart Rd
2	2	2	70	1977	20	CTH GG	Inglehart Rd	Salemville Rd
2	2	2	70	1977	20	CTH GG	Salemville Rd	CTH M
2	7		70	2012	21	CTH H	CTH II / STH 44	CTH FF
2	2	3	70	1974	21	CTH H	CTH II / STH 44	CTH FF
2	2	2	70	1966	18	CTH H	CTH FF	CTH B
2	2	2	70	1973	18	CTH H	Puckaway Rd	Sixth St
2	2	2	70	1973	18	CTH H	Sixth St	W Fourth St
2	2	2	70	1973	18	CTH H	W Fourth St	W Third St
2	2	2	70	1957	18	CTH H	W Third St	Sherman Ave
2	2	2	70	1957	18	CTH H	Sherman Ave	Charlevoix St
2	2	2	70	1957	18	CTH H	Charlevoix St	Resort St
2	2	2	70	1957	18	CTH H	Resort St	S Lyons St
2	2	2	70	1957	18	CTH H	S Lyons St	Promenade St
2	2	2	70	1957	18	CTH H	Promenade St	Centre St
2	2	2	70	1957	18	CTH H	Centre St	S Dodges Ave
2	2	2	70	1957	18	CTH H	S Dodges Ave	E Fourth St

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
2	2	2	70	1957	18	CTH H	S Dodges Ave	E Fourth St
2	2	2	70	1966	20	CTH H	S Dodges Ave	E Fourth St
2	4	4	70	1966	20	CTH H	E Fourth St	CTH B
2	2	2	70	1966	19	CTH I	Manchester St / STH 44	CTH U
2	2	2	70	1966	20	CTH I	Manchester St / STH 44	CTH U
2	2	2	70	1966	20	CTH I	CTH U	CTH O
2	2	2	70	1966	20	CTH I	CTH O	CTH O
2	3	3	70	1978	20	CTH I	CTH O	Village Rd (2)
2	3	3	70	1978	20	CTH I	Village Rd (2)	CTH A / Mackford Hill Rd
2	3	4	70	1998	22	CTH J	N Clinton St / N Fulton St / CTH J	CTH P
2	3	3	70	1998	22	CTH J	CTH P	Huckleberry Rd
2	3	3	70	1998	22	CTH J	CTH P	Huckleberry Rd
2	3	4	70	1998	22	CTH J	Huckleberry Rd	CTH P
2	2	2	70	1966	20	CTH JJ	CTH Q	Utley Quarry Rd
2	2	2	70	1966	20	CTH JJ	Utley Quarry Rd	Schure Rd
2	2	2	70	1966	22	CTH JJ	Utley Quarry Rd	Schure Rd
2	2	2	70	1966	22	CTH JJ	Utley Quarry Rd	Schure Rd
2	2	2	70	1966	22	CTH JJ	Schure Rd	CTH E / Liner Rd / Main St / CTH JJ
2	2	2	70	1974	21	CTH N	CTH B / Miller Rd	Center Rd
2	2	2	70	1974	21	CTH N	Center Rd	CTH K / Horner Rd
2	2	2	70	1966	20	CTH O	Hickory Dr	CTH I
2	2	2	70	1966	20	CTH O	CTH I	CTH I
2	2	2	70	1966	20	CTH O	CTH I	Bridge St / Summit St E / CTH O
2	2	2	70	1973	20	CTH O	CTH B	Roy Creek Rd
2	2	2	70	1973	20	CTH O	Roy Creek Rd	Center Rd
2	2	1	70	1966	20	CTH O	Center Rd	CTH K
2	2	2	70	1966	18	CTH TT	CTH T	STH 23
2	2	2	70	1966	20	CTH U	CTH X	Zink Rd
3	3	4	70	2012	22	CTH A	CTH AW	Sunny Dr
3	3	4	70	2012	22	CTH A	Sunny Dr	Prairie Dr
3	3	4	70	2012	22	CTH A	Prairie Dr	Lake Maria Rd
3	3	4	70	2012	22	CTH A	Lake Maria Rd	CTH X
3	3	4	70	2012	22	CTH A	CTH X	CTH X
3	3	4	70	2012	22	CTH A	CTH X	Hickory Dr
3	4	4	70	2012	22	CTH A	Hickory Dr	CTH I / Mackford Hill Rd
3	3	3	70	1966	18	CTH C	Fawn Dr / CTH C	STH 23
3	3	4	65	2008	22	CTH D	Disterhaft Rd	Wiese Rd
3	3	4	70	2003	22	CTH D	Big Island Rd	CTH F
3	4	4	70	1966	30	CTH E	Chappa Rd	South Rd
3	4	4	65	1994	30	CTH E	Chappa Rd	South Rd
3	3	3	65	1993	30	CTH F	CTH E	CTH D
3	3	3	65	1993	30	CTH F	CTH D	N Fountain Rd
3	3	3	65	1993	30	CTH F	N Fountain Rd	Ladwig Rd
3	3	3	65	1993	30	CTH F	N Fountain Rd	Ladwig Rd
3	3	3	65	1993	30	CTH F	Ladwig Rd	Thoma Rd
3	3	3	65	1993	30	CTH F	Thoma Rd	S Hunter St
3	4	4	70	2003	22	CTH FF	STH 44	E South St

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
3	5	5	65	2003	22	CTH HH	CTH H / CTH HH	CTH GG
3	3	4	70	2003	22	CTH HH	CTH H / CTH HH	CTH GG
3	4	4	70	1966	18	CTH I	CTH U	CTH U
3	3	4	70	1998	22	CTH J	CTH P	CTH CC / Swamp Rd
3	4	4	70	1966	20	CTH J	CTH CC / Swamp Rd	Puchyan Marsh Rd
3	4	4	70	1966	20	CTH J	Puchyan Marsh Rd	Saint Marie Rd
3	4	4	70	1966	20	CTH J	Saint Marie Rd	CTH CC
3	4	4	70	1966	20	CTH J	Saint Marie Rd	CTH CC
3	3	4	70	1966	20	CTH J	CTH CC	CTH A
3	5	5	70	1979	22	CTH K	CTH N / Horner Rd	CTH A / Thomas Rd
3	5	7	70	1979	22	CTH K	CTH N / Horner Rd	CTH A / Thomas Rd
3	3	3	70	1967	20	CTH S	James St / John St / CTH S	Village Rd (1)
3	3	3	70	1967	20	CTH S	Village Rd (1)	Village Rd (2)
3	3	3	70	1967	20	CTH S	Village Rd (2)	CTH A
3	3	3	70	1979	22	CTH T	Bend Rd	Oxbow Trl
3	3	3	70	1979	22	CTH T	Oxbow Trl	Cradle Rd
3	3	3	70	1979	22	CTH T	Cradle Rd	S Farmer St / South St / CTH T
3	3	3	70	1978	20	CTH U	STH 73	Lake Maria Rd
3	3	3	70	1978	20	CTH U	Lake Maria Rd	CTH X
3	3	3	70	1978	20	CTH U	CTH X	CTH X
3	4	4	70	1966	18	CTH U	CTH I	CTH I
3	4	4	70	1995	22	CTH VV	CTH V	Dartford St / Pleasant St / CTH VV
3	8	3	70	1978	20	CTH X	CTH U	CTH U
3	8	4	70	2012	22	CTH X	CTH A	CTH A
4	5	6	70	2012	22	CTH A	CTH J	CTH J
4	4	5	70	1991	22	CTH A	E River Rd	CTH V / Puchyan Rd
4	4	4	70	1977	26	CTH D	STH 73	CTH W
4	4	4	70	1977	23	CTH D	CTH W	Reetz Rd
4	4	4	70	1977	23	CTH D	Reetz Rd	Roeder Rd
4	4	4	70	1977	23	CTH D	Roeder Rd	CTH T
4	4	4	70	1977	23	CTH D	CTH T	Cradle Rd
4	4	4	70	1977	23	CTH D	Cradle Rd	Village Acres Ln
4	4	4	70	1975	44	CTH D	Village Acres Ln	Kristine Ct
4	4	4	70	1975	44	CTH D	Kristine Ct	Old Green Lake Rd
4	4	4	70	1973	44	CTH D	Old Green Lake Rd	STH 23 / STH 73
4	6	6	70	1966	18	CTH D	Old Saint Marie Rd	CTH YY
4	4	4	70	1983	22	CTH D	CTH YY	White River Rd
4	4	4	70	1966	18	CTH D	CTH YY	White River Rd
4	4	4	70	1966	18	CTH D	White River Rd	Mile Rd
4	5	5	70	2004	18	CTH D	Mile Rd	Dead End Rd (2)
4	7	7	65	2008	22	CTH D	Marsh Rd	Disterhaft Rd
4	4	4	65	2008	22	CTH D	Marsh Rd	Disterhaft Rd
4	5	6	70	2004	18	CTH D	Wiese Rd	Big Iland Rd / Big Island Rd
4	5	5	70	2004	18	CTH D	Big Iland Rd / Big Island Rd	Big Island Rd
4	4	4	70	1966	30	CTH E	CTH Z / CTH E	Pine Bluff Rd
4	4	4	70	1966	30	CTH E	Pine Bluff Rd	Murphy Rd / South Rd
4	4	4	70	1966	30	CTH E	Murphy Rd / South Rd	Chappa Rd

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
4	4	5	70	1966	30	CTH F	Termini	Cemetery Rd
4	4	5	70	1966	30	CTH F	Cemetery Rd	CTH E
4	5	5	65	2004	22	CTH F	Oak Dr	CTH V
4	5	5	65	2004	22	CTH F	CTH V	CTH AA
4	5	5	65	2004	22	CTH F	CTH AA	Willard Rd
4	5	5	65	2004	22	CTH F	Willard Rd	W Hillside Rd
4	5	5	65	2004	22	CTH F	W Hillside Rd	CTH PP / Town Line Rd
4	5	5	65	2004	22	CTH F	CTH PP / Town Line Rd	CTH FF / 37th Ave / Tri-County Rd
4	5	5	65	2004	22	CTH F	CTH PP / Town Line Rd	CTH FF / 37th Ave / Tri-County Rd
4	7	7	70	2004	22	CTH FF	CTH HH	STH 44
4	5	5	65	2003	22	CTH FF	CTH H	CTH H
4	5	6	65	2004	22	CTH FF	Mc Connell Rd / CTH FF	CTH F / 37th Ave / Tri-County Rd
4	4	5	65	2003	22	CTH H	CTH FF	CTH FF
4	7	7	65	2015	22	CTH H	CTH B	Grand Marsh Rd
4	6	6	70	1976	20	CTH H	Grand Marsh Rd	Indian Mound Rd
4	10	8	70	2009	22	CTH H	Indian Mound Rd	Grand River Rd
4	4	4	70	1994	22	CTH J	Soda Rd / CTH J	Holmes Rd
4	4	4	70	1994	22	CTH J	Holmes Rd	Otto Rd
4	4	4	70	1994	22	CTH J	Otto Rd	Pleasant Dr
4	4	4	70	1994	22	CTH J	Pleasant Dr	Harris St / STH 73
4	3	6	70	2012	22	CTH J	CTH A	CTH A
4	5	6	70	1994	22	CTH J	CTH A	Springbrook Rd
4	6	6	70	2003	22	CTH KK	Nicolet Rd	CTH B / CTH H
4	4	4	70	1997	20	CTH Q	CTH AW	Prairie Dr
4	4	4	70	1997	20	CTH Q	Prairie Dr	Lake Maria Rd
4	4	4	70	1997	20	CTH Q	Lake Maria Rd	Biesenthal Dr
4	4	4	70	1997	20	CTH Q	Biesenthal Dr	CTH X / Short Dr
4	4	4	70	1997	20	CTH Q	CTH X / Short Dr	Hickory Dr
4	4	5	70	1997	20	CTH Q	Hickory Dr	CTH S
4	4	3	70	1997	20	CTH Q	CTH S	CTH S
4	3	3	70	1997	20	CTH S	CTH Q	CTH Q
5	7	8	70	2006	20	CTH AA	Forest Ridge Rd	CTH F
5	8	8	70	1999	22	CTH B	CTH H	Forest St
5	7	7	70	2007	44	CTH B	Mill St	South St / STH 44
5	7	7	70	1973	18	CTH B	CTH H / CTH KK	CTH H
5	6	6	70	2011	22	CTH D	CTH DD	Marsh Rd
5	7	9	65	2012	50	CTH F	S Hunter St	Broadway St / N Hunter St
5	7	9	65	2012	50	CTH F	S Hunter St	Broadway St / N Hunter St
5	7	7	70	1973	18	CTH H	CTH B	CTH B / CTH KK
5	5	5	70	1966	18	CTH HH	CTH FF / CTH HH	CTH II / Newell Rd / CTH HH
5	5	5	65	2003	22	CTH HH	CTH II / Newell Rd / CTH HH	CTH H / CTH HH
5	6	6	70	1998	22	CTH HH	CTH GG	CTH X / STH 44
5	7	8	65	2011	22	CTH I	CTH S	STH 44 / STH 73
5	5	5	70	2003	22	CTH II	CTH HH / Newell Rd	CTH H / STH 44
5	7	7	65	2010	22	CTH N	STH 44 / Tichora Rd	CTH B / Miller Rd
5	8	5	65	2008	22	CTH S	CTH I	John St / Moorland Dr / CTH S
5	1	1	70	1966	18	CTH YY	CTH Y	CTH D

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
6	7	7	65	2012	30	CTH A	CTH K / Thomas Rd	CTH K / Scott Hill Rd
6	7	7	70	1966	20	CTH AA	CTH A / Dead End Rd	STH 49 / CTH AA
6	8	8	70	1999	22	CTH B	CTH FFF	CTH H
6	8	8	70	1999	26	CTH B	CTH H	Forest St
6	8	8	70	1966	22	CTH B	CTH H	Forest St
6	8	8	70	1999	26	CTH B	CTH H	Forest St
6	8	8	70	1999	26	CTH B	Forest St	James St
6	8	8	70	1999	26	CTH B	James St	Mill St
6	9	9	70	2012	22	CTH B	CTH BB / STH 73	Roy Creek Rd
6	9	9	70	2012	22	CTH B	Roy Creek Rd	Luedtke Rd
6	8	9	70	2012	22	CTH B	Luedtke Rd	CTH O
6	1	1	65	2009	22	CTH BB	CTH B	CTH B / STH 73
6	1	1	65	2009	18	CTH BB	CTH B	CTH B / STH 73
6	6	6	70	2003	22	CTH FF	E South St	E Pine St / W Pine St
6	6	6	70	2003	22	CTH FF	E Pine St / W Pine St	E Oak St / W Oak St
6	6	6	70	2003	22	CTH FF	E Oak St / W Oak St	E North St / W North St
6	6	6	70	2003	22	CTH FF	E North St / W North St	Golden Rd
6	6	6	70	2003	22	CTH FF	Golden Rd	CTH FFF / Shady Ln
6	6	6	70	2003	22	CTH FF	CTH FFF / Shady Ln	CTH H
6	6	6	70	1993	22	CTH FF	CTH H	Spring L View Dr / Spring Lake Dr
6	6	6	70	1993	22	CTH FF	Spring L View Dr / Spring Lake Dr	Charles Ave
6	6	6	70	1966	20	CTH FF	Spring L View Dr / Spring Lake Dr	Charles Ave
6	6	6	70	1966	20	CTH FF	Charles Ave	Mill St
6	6	6	70	1960	20	CTH FF	Charles Ave	Mill St
6	6	6	70	1960	20	CTH FF	Mill St	South St / STH 44
6	6	6	70	1966	18	CTH HH	Barry Rd / STH 44 / CTH HH	CTH FF / CTH HH
6	7	8	65	2011	18	CTH I	CTH H	CTH S
6	7	8	65	2011	22	CTH I	CTH H	CTH S
6	7	9	70	2012	22	CTH K	STH 73	Maple Rd
6	7	8	70	2012	22	CTH K	Maple Rd	Parkway
6	7	8	70	2012	22	CTH K	Parkway	Rex St
6	7	8	70	2012	22	CTH K	Parkway	Rex St
6	7	8	70	2012	22	CTH K	Rex St	Grace St
6	7	8	70	2012	22	CTH K	Grace St	S Lakeshore Dr
6	7	8	70	2012	22	CTH K	Grace St	S Lakeshore Dr
6	7	8	70	2012	22	CTH K	S Lakeshore Dr	Blackbird Point Rd
6	7	8	70	2012	22	CTH K	S Lakeshore Dr	Blackbird Point Rd
6	7	8	70	2012	22	CTH K	Blackbird Point Rd	Kahl Rd
6	7	8	70	2012	22	CTH K	Kahl Rd	Oakwood Beach Rd
6	7	8	70	2012	22	CTH K	Oakwood Beach Rd	Hess Rd
6	7	9	70	2012	22	CTH K	Hess Rd	CTH O
6	7	8	70	2012	22	CTH K	CTH O	Lake View Rd
6	7	8	70	2012	22	CTH K	Lake View Rd	CTH N / Horner Rd
6	7	7	65	2012	24	CTH K	CTH A / Thomas Rd	CTH A / Scott Hill Rd
6	7	9	65	2012	24	CTH K	CTH A / Scott Hill Rd	Craig Rd
6	7	9	65	2012	24	CTH K	Craig Rd	Brooklyn G / Prairie Rd / Skunk Hollow Rd
6	7	9	65	2012	24	CTH K	Brooklyn G / Prairie Rd / Skunk H	CTH KK / Searle Rd

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
6	6	6	70	2003	22	CTH KK	CTH H	Nicolet Rd
6	7	7	70	1966	20	CTH O	CTH X	Lovers Ln
6	8	7	65	2008	22	CTH S	Main St	STH 44 / STH 73
6	8	5	65	2008	22	CTH S	Heritage Rd / STH 73	CTH I
6	8	9	70	2011	22	CTH W	CTH D	Reetz Rd
6	8	9	70	2011	22	CTH W	Reetz Rd	CTH T
6	8	9	70	2011	22	CTH W	CTH T	Salbego Ln
6	8	9	70	2011	22	CTH W	Salbego Ln	STH 23 / STH 73
7	8	6	70	1998	22	CTH A	CTH V / Puchyan Rd	Landing Rd
7	8	6	70	1998	22	CTH A	Landing Rd	Seward Dr (1)
7	8	6	70	1998	22	CTH A	Seward Dr (1)	STH 49
7	7	8	70	2006	20	CTH AA	STH 49 / CTH AA	Forest Ridge Rd
7	8	8	70	1999	22	CTH B	18th Rd / CTH B	Grand Ave
7	8	8	70	1999	22	CTH B	Grand Ave	Lovers Ln
7	8	8	70	1999	22	CTH B	Lovers Ln	CTH FFF
7	8	7	70	2009	22	CTH B	CTH H	CTH H
7	7	7	70	2003	22	CTH B	South St / STH 44	CTH H / CTH KK
7	7	7	70	2003	22	CTH B	South St / STH 44	CTH H / CTH KK
7	7	7	70	2003	22	CTH B	South St / STH 44	CTH H / CTH KK
7	7	7	70	2006	20	CTH B	CTH O	Boelter Rd
7	7	7	70	2006	22	CTH B	Boelter Rd	CTH N / Miller Rd
7	7	9	65	2012	18	CTH D	Dead End Rd (2)	County Line Rd
7	7	7	70	2011	22	CTH D	CTH DD	Marsh Rd
7	4	2	65	2015	20	CTH FFF	CTH FF / Shady Ln	Gillette Dr
7	7	7	70	2004	22	CTH H	CTH HH	East Ln
7	7	7	70	2004	22	CTH H	East Ln	STH 44
7	8	7	70	2009	22	CTH H	CTH B	CTH B
7	7	7	70	1976	20	CTH H	CTH B	Grand Marsh Rd
7	7	7	70	2006	22	CTH H	CTH B / CTH KK	Marquette Rd
7	7	7	70	2006	22	CTH H	Marquette Rd	Hilltop Rd
7	7	7	70	2006	22	CTH H	Hilltop Rd	Toledo Rd
7	7	7	70	2006	22	CTH H	Toledo Rd	STH 73
7	7	7	70	2006	22	CTH H	Toledo Rd	STH 73
7	8	9	70	2010	22	CTH H	STH 73	CTH I
7	8	9	70	2010	22	CTH H	CTH I	CTH O
7	8	9	70	2010	22	CTH H	CTH O	TN RD 54 / Welk Rd
7	8	9	70	2010	22	CTH H	CTH O TN RD 54 / Welk Rd	Margaret St / STH 44
7	5	5	70	2012	20	CTH II	CTH HH / Newell Rd	CTH H / STH 44
7	7	7	70	2011	22	CTH O	CTH AW	Prairie Dr
7	7	7	70	2011	22	CTH O	Prairie Dr	Lake Maria Rd
7	7	7	70	2011	22	CTH O	Lake Maria Rd	Lake Maria Rd
7	7	7	70	2011	22	CTH O	Lake Maria Rd	CTH X
7	8	9	70	2010	22	CTH O	CTH H / TN RD 54 / Welk Rd	CTH H
7	8	7	70	1966	18	CTH P	CTH J	Sina Rd
7	8	7	70	1966	18	CTH P	Sina Rd	CTH J
7	8	7	70	1966	18	CTH P	Sina Rd	CTH J
7	8	7	65	2008	22	CTH S	CTH X / East Friesland Rd	South Gate Rd

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
7	8	7	65	2008	22	CTH S	South Gate Rd	Front St
7	8	7	65	2008	22	CTH S	Front St	Main St
7	8	7	65	2007	22	CTH S	CTH Q	N Brave Rd
7	8	7	65	2007	22	CTH S	N Brave Rd	Schure Rd
7	8	7	65	2007	22	CTH S	Schure Rd	CTH E / CTH AS / CTH S
7	7	8	70	2006	22	CTH T	STH 73	CTH W
7	7	8	70	2006	22	CTH T	CTH W	CTH D
7	7	8	70	2006	22	CTH T	CTH D	Bend Rd
7	8	7	70	2001	22	CTH U	CTH I	Manchester St / STH 44 / Airport Dr / CTH U
7	8	7	70	2001	22	CTH U	CTH I	Manchester St / STH 44 / Airport Dr / CTH U
7	8	8	70	2012	22	CTH V	Roberts Ln	STH 49
7	8	6	70	2001	22	CTH V	STH 49	CTH VV
7	8	6	70	2001	22	CTH V	CTH VV	Forest Ridge Rd
7	8	6	70	2001	22	CTH V	Forest Ridge Rd	CTH F
7	8	6	70	2000	22	CTH V	CTH F	Willard Rd
7	8	6	70	2000	22	CTH V	Willard Rd	White Ridge Rd
7	8	6	70	2000	22	CTH V	White Ridge Rd	Meadowbrook Rd
7	8	6	70	2000	22	CTH V	Meadowbrook Rd	37th Ave / Hillside Rd / CTH V
7	8	6	70	1999	22	CTH X	CTH HH / STH 44	Winding Ln
7	8	6	70	1999	22	CTH X	CTH HH / STH 44	Winding Ln
7	8	6	70	1999	22	CTH X	Winding Ln	Salemville Rd
7	8	6	70	1999	22	CTH X	Salemville Rd	South Gate Rd
7	8	6	70	1999	22	CTH X	South Gate Rd	Lane No 5
7	8	6	70	1999	22	CTH X	Lane No 5	CTH M / Valley Rd
7	8	6	70	2000	22	CTH X	CTH M / Valley Rd	Proscarian Rd
7	8	6	70	2000	22	CTH X	Proscarian Rd	Lane No 7
7	8	6	70	2000	22	CTH X	Lane No 7	CTH S / East Friesland Rd
7	8	6	70	2000	22	CTH X	CTH S / East Friesland Rd	STH 73
7	8	7	70	2001	22	CTH X	STH 73	CTH U
7	8	7	70	2001	22	CTH X	CTH U	CTH O
7	8	7	70	2001	22	CTH X	CTH U	CTH O
7	8	7	70	2001	22	CTH X	CTH O	CTH A
7	8	7	70	2001	22	CTH X	CTH A	Pleasant Dr
7	8	7	70	2001	22	CTH X	Pleasant Dr	Union Rd
7	8	7	70	2001	22	CTH X	Union Rd	Berg Dr
7	8	7	70	2001	22	CTH X	Berg Dr	CTH Q / Short Dr
8	8	9	70	2012	30	CTH A	Old CTH A / Tichora Rd	Old CTH A
8	8	9	70	2012	30	CTH A	Old CTH A	CTH S
8	8	9	70	2012	24	CTH A	CTH S	Utley Rd
8	8	9	70	2012	24	CTH A	CTH S	Utley Rd
8	8	9	70	2012	24	CTH A	Utley Rd	STH 44
8	6	7	70	2012	30	CTH A	STH 44	Miller Rd
8	6	7	70	2012	30	CTH A	Miller Rd	Center Rd
8	6	7	70	2012	30	CTH A	Center Rd	CTH K / Thomas Rd
8	7	8	70	2012	30	CTH A	CTH K / Scott Hill Rd	Spring Grove Rd
8	7	7	70	2012	30	CTH A	CTH K / Scott Hill Rd	Spring Grove Rd
8		8	70	2012	30	CTH A	Spring Grove Rd	Forest Glen Beach Rd

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
8		8	70	2012	30	CTH A	Forest Glen Beach Rd	Silver Creek Rd
8		8	70	2012	30	CTH A	Forest Glen Beach Rd	Silver Creek Rd
8	7	8	70	2012	30	CTH A	Silver Creek Rd	Illinois Ave / Whitetail Ct
8	7	8	70	2012	30	CTH A	Illinois Ave / Whitetail Ct	Klaver St / Mary St
8	7	8	70	2012	30	CTH A	Klaver St / Mary St	South St / Sunnyside Rd
8	8	10	70	2013	30	CTH A	South St / Sunnyside Rd	Commercial Ave
8		4	70	2012	74	CTH A	Commercial Ave	STH 23 / STH 49
8	9		70	2014	24	CTH A	North St / STH 23	Northwest Rd / Princeton Rd
8	9	10	70	2013	22	CTH A	North St / STH 23	Northwest Rd / Princeton Rd
8	9	9	65	2014	22	CTH A	Northwest Rd / Princeton Rd	CTH J
8	9	9	70	2012	22	CTH A	CTH J	Bluffton Rd
8	9	9	70	2011	22	CTH A	CTH J	Bluffton Rd
8	9	9	70	2011	22	CTH A	Bluffton Rd	Springbrook Rd
8	9	9	70	2011	22	CTH A	Bluffton Rd	Springbrook Rd
8	9	9	70	1991	22	CTH A	Springbrook Rd	CTH AA / Dead End Rd
8	8	8	65	2011	20	CTH B	CTH O	CTH O
8	3	1	65	2014	20	CTH D	First St	Harris St
8		1	70	1955	20	CTH D	Harris St	Old Saint Marie Rd
8	7	8	70	2011	18	CTH D	County Line Rd	CTH DD
8	8	8	70	2006	22	CTH EE	Barry Rd / Gulch Ave / CTH EE	STH 44
8		2	65	2015	20	CTH FFF	Gillette Dr	CTH B
8	4	4	70	1994	22	CTH J	Pleasant Dr	Harris St / STH 73
8	7	9	65	2013	22	CTH J	Springbrook Rd	Brooklyn J / STH 49
8	8	8	65	2011	20	CTH O	CTH B	CTH B
8	10	7	65	2015	22	CTH PP	Dead End Rd / STH 23 / STH 49 /	Mc Connell Rd
8	10	7	65	2015	22	CTH PP	Mc Connell Rd	CTH F / Town Line Rd
8	9	9	70	2012	22	CTH S	Old CTH A / Tichora Rd	Old CTH A
8	9	9	70	2012	22	CTH S	Old CTH A	CTH A
8	7	8	70	2006	22	CTH T	STH 23	Hickory Hill Ln
8	7	8	70	2006	22	CTH T	Hickory Hill Ln	Cherry Ln
8	7	8	70	2006	22	CTH T	Cherry Ln	Sugar Loaf Rd
8	7	8	70	2006	22	CTH T	Sugar Loaf Rd	Cottage Rd
8	7	8	70	2006	22	CTH T	Cottage Rd	Lazy L Rd
8	7	8	70	2006	22	CTH T	Lazy L Rd	Judy Ln
8	7	8	70	2006	22	CTH T	Judy Ln	CTH TT
8	7	8	70	2006	22	CTH T	CTH TT	STH 73
8	8	8	70	2012	22	CTH V	CTH A / Puchyan Rd	Roberts Ln
8		5	70	1966	20	CTH Z	CTH E	CTH Z
9	9	10	70	2014	22	CTH B	Hilltop Rd	Island Rd
9	9	10	70	2014	22	CTH B	Island Rd	CTH BB
9	9	10	70	2014	22	CTH B	CTH BB	STH 73 / CTH B
9	9	10	70	2014	22	CTH B	CTH BB	STH 73 / CTH B
9	10	8	70	2009	22	CTH H	Indian Mound Rd	Grand River Rd
9			70	2014	20	CTH S	CTH A	CTH Q
10	10	4	70	2015	37	CTH A	CTH I / Mackford Hill Rd	CTH S
10	10	9	70	2015	30	CTH A	CTH S	Old CTH A / Tichora Rd
10	10	9	65	2015	22	CTH B	CTH H	Hilltop Rd

YEAR 2017					1 = Blue	2 = Purple	3 = Orange	4 = Green
2017	**2015**	**2013**	**Surface Type**		**Width**	**On Route**	**At Route**	**Toward Route**
10	1	1	70	2017	22	CTH DD	22nd Ave / CTH DD	Pond Lily Rd
10	1	1	70	2017	22	CTH DD	22nd Ave / CTH DD	Pond Lily Rd
10	1	1	70	2017	22	CTH DD	Pond Lily Rd	CTH D
10	10	8	65	2015	22	CTH H	Grand River Rd	CTH KK
10	10	8	65	2015	22	CTH H	CTH KK	Puckaway Rd
10	2	2	70	1966	20	CTH M	N County Line Rd / CTH M	CTH GG
10	2	2	70	1966	20	CTH M	CTH GG	Yunker Rd
10	2	2	70	1966	20	CTH M	Yunker Rd	Winding Ln
10	2	2	70	1966	20	CTH M	Winding Ln	CTH X / Valley Rd
10	8	10	70	2017	22	CTH O	CTH H	Kearley Rd / Phelps Rd
10	8	10	70	2017	22	CTH O	Kearley Rd / Phelps Rd	Eric Rd
10	8	10	70	2017	22	CTH O	Eric Rd	CTH B
10	4	4	70	2017	22	CTH Q	CTH S	Menke Dr Private
10	4	5	70	2017	22	CTH Q	Menke Dr Private	CTH JJ
10	4	5	70	2017	22	CTH Q	Menke Dr Private	CTH JJ
10	4	5	70	2017	22	CTH Q	CTH JJ	Utley Quarry Rd
10	4	5	70	2017	22	CTH Q	Utley Quarry Rd	Utley Rd
10	3	4	70	2017	22	CTH Q	Utley Rd	Prairie Rd / STH 44
10	10	9	70	2015	22	CTH S	CTH A	Old CTH A / Tichora Rd
10	10	1	70	2015	22	CTH Y	Black Creek Rd	CTH YY
10	10	1	70	2015	22	CTH Y	CTH YY	STH 73
10	10	1	70	2015	22	CTH Y	CTH YY	STH 73

Sorted by County Road

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
2			65	1990	24	CTH A	CTH AW	CTH AW
2			70	2012	22	CTH A	CTH AW	CTH AW
2	2	2	70	1966	20	CTH A	CTH AA / Dead End Rd	E River Rd
2	2	2	70	1991	22	CTH A	CTH AA / Dead End Rd	E River Rd
3	3	4	70	2012	22	CTH A	CTH AW	Sunny Dr
3	3	4	70	2012	22	CTH A	Sunny Dr	Prairie Dr
3	3	4	70	2012	22	CTH A	Prairie Dr	Lake Maria Rd
3	3	4	70	2012	22	CTH A	Lake Maria Rd	CTH X
3	3	4	70	2012	22	CTH A	CTH X	CTH X
3	3	4	70	2012	22	CTH A	CTH X	Hickory Dr
3	4	4	70	2012	22	CTH A	Hickory Dr	CTH I / Mackford Hill Rd
4	5	6	70	2012	22	CTH A	CTH J	CTH J
4	4	5	70	1991	22	CTH A	E River Rd	CTH V / Puchyan Rd
6	7	7	65	2012	30	CTH A	CTH K / Thomas Rd	CTH K / Scott Hill Rd
7	8	6	70	1998	22	CTH A	CTH V / Puchyan Rd	Landing Rd
7	8	6	70	1998	22	CTH A	Landing Rd	Seward Dr (1)
7	8	6	70	1998	22	CTH A	Seward Dr (1)	STH 49
8	8	9	70	2012	30	CTH A	Old CTH A / Tichora Rd	Old CTH A
8	8	9	70	2012	30	CTH A	Old CTH A	CTH S
8	8	9	70	2012	24	CTH A	CTH S	Utley Rd
8	8	9	70	2012	24	CTH A	CTH S	Utley Rd
8	8	9	70	2012	24	CTH A	Utley Rd	STH 44
8	6	7	70	2012	30	CTH A	STH 44	Miller Rd
8	6	7	70	2012	30	CTH A	Miller Rd	Center Rd
8	6	7	70	2012	30	CTH A	Center Rd	CTH K / Thomas Rd
8	7	8	70	2012	30	CTH A	CTH K / Scott Hill Rd	Spring Grove Rd
8	7	7	70	2012	30	CTH A	CTH K / Scott Hill Rd	Spring Grove Rd
8		8	70	2012	30	CTH A	Spring Grove Rd	Forest Glen Beach Rd
8		8	70	2012	30	CTH A	Forest Glen Beach Rd	Silver Creek Rd
8		8	70	2012	30	CTH A	Forest Glen Beach Rd	Silver Creek Rd
8	7	8	70	2012	30	CTH A	Silver Creek Rd	Illinois Ave / Whitetail Ct
8	7	8	70	2012	30	CTH A	Illinois Ave / Whitetail Ct	Klaver St / Mary St
8	7	8	70	2012	30	CTH A	Klaver St / Mary St	South St / Sunnyside Rd
8	8	10	70	2013	30	CTH A	South St / Sunnyside Rd	Commercial Ave
8		4	70	2012	74	CTH A	Commercial Ave	STH 23 / STH 49
8	9		70	2014	24	CTH A	North St / STH 23	Northwest Rd / Princeton Rd
8	9	10	70	2013	22	CTH A	North St / STH 23	Northwest Rd / Princeton Rd
8	9	9	65	2014	22	CTH A	Northwest Rd / Princeton Rd	CTH J
8	9	9	70	2012	22	CTH A	CTH J	Bluffton Rd
8	9	9	70	2011	22	CTH A	CTH J	Bluffton Rd
8	9	9	70	2011	22	CTH A	Bluffton Rd	Springbrook Rd
8	9	9	70	2011	22	CTH A	Bluffton Rd	Springbrook Rd
8	9	9	70	1991	22	CTH A	Springbrook Rd	CTH AA / Dead End Rd
10	10	4	70	2015	37	CTH A	CTH I / Mackford Hill Rd	CTH S
10	10	9	70	2015	30	CTH A	CTH S	Old CTH A / Tichora Rd
5	7	8	70	2006	20	CTH AA	Forest Ridge Rd	CTH F
6	7	7	70	1966	20	CTH AA	CTH A / Dead End Rd	STH 49 / CTH AA

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
7	7	8	70	2006	20	CTH AA	STH 49 / CTH AA	Forest Ridge Rd
2	3	3	70	1971	22	CTH AW	Old STH 73 Private / CTH AW	Medick Rd / CTH AW
2	3	3	70	1971	22	CTH AW	Old STH 73 Private / CTH AW	Medick Rd / CTH AW
2	3	3	70	1971	22	CTH AW	Medick Rd / CTH AW	CTH O / CTH AW
2	3	3	70	1971	22	CTH AW	Mich Rd / CTH AW	CTH A / CTH AW
2	3	3	70	1967	22	CTH AW	Mich Rd / CTH AW	CTH A / CTH AW
2	3	4	70	2012	22	CTH AW	CTH A / CTH AW	CTH A / CTH AW
5	8	8	70	1999	22	CTH B	CTH H	Forest St
5	7	7	70	2007	44	CTH B	Mill St	South St / STH 44
5	7	7	70	1973	18	CTH B	CTH H / CTH KK	CTH H
6	8	8	70	1999	22	CTH B	CTH FFF	CTH H
6	8	8	70	1999	26	CTH B	CTH H	Forest St
6	8	8	70	1966	22	CTH B	CTH H	Forest St
6	8	8	70	1999	26	CTH B	CTH H	Forest St
6	8	8	70	1999	26	CTH B	Forest St	James St
6	8	8	70	1999	26	CTH B	James St	Mill St
6	9	9	70	2012	22	CTH B	CTH BB / STH 73	Roy Creek Rd
6	9	9	70	2012	22	CTH B	Roy Creek Rd	Luedtke Rd
6	8	9	70	2012	22	CTH B	Luedtke Rd	CTH O
7	8	8	70	1999	22	CTH B	18th Rd / CTH B	Grand Ave
7	8	8	70	1999	22	CTH B	Grand Ave	Lovers Ln
7	8	8	70	1999	22	CTH B	Lovers Ln	CTH FFF
7	8	7	70	2009	22	CTH B	CTH H	CTH H
7	7	7	70	2003	22	CTH B	South St / STH 44	CTH H / CTH KK
7	7	7	70	2003	22	CTH B	South St / STH 44	CTH H / CTH KK
7	7	7	70	2003	22	CTH B	South St / STH 44	CTH H / CTH KK
7	7	7	70	2006	20	CTH B	CTH O	Boelter Rd
7	7	7	70	2006	22	CTH B	Boelter Rd	CTH N / Miller Rd
8	8	8	65	2011	20	CTH B	CTH O	CTH O
9	9	10	70	2014	22	CTH B	Hilltop Rd	Island Rd
9	9	10	70	2014	22	CTH B	Island Rd	CTH BB
9	9	10	70	2014	22	CTH B	CTH BB	STH 73 / CTH B
9	9	10	70	2014	22	CTH B	CTH BB	STH 73 / CTH B
10	10	9	65	2015	22	CTH B	CTH H	Hilltop Rd
2	7	8	65	2009	18	CTH BB	CTH B	CTH B / STH 73
6	1	1	65	2009	22	CTH BB	CTH B	CTH B / STH 73
6	1	1	65	2009	18	CTH BB	CTH B	CTH B / STH 73
3	3	3	70	1966	18	CTH C	Fawn Dr / CTH C	STH 23
2	2	2	70	1966	20	CTH CC	CTH J / Swamp Rd	Pine Rd
2	2	2	70	1966	20	CTH CC	Pine Rd	Huckleberry Rd
2	2	2	70	1966	20	CTH CC	Huckleberry Rd	Puchyan Marsh Rd
2	2	2	70	1966	20	CTH CC	Puchyan Marsh Rd	CTH J
2	2	2	70	1966	20	CTH CC	Puchyan Marsh Rd	CTH J
1	1	1	70	1955	20	CTH D	STH 23 / STH 73	Wilson St
1	1	1	70	1955	20	CTH D	Wilson St	First St
1	1	1	70	1966	18	CTH D	Harris St	Old Saint Marie Rd
3	3	4	65	2008	22	CTH D	Disterhaft Rd	Wiese Rd

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
3	3	4	70	2003	22	CTH D	Big Island Rd	CTH F
4	4	4	70	1977	26	CTH D	STH 73	CTH W
4	4	4	70	1977	23	CTH D	CTH W	Reetz Rd
4	4	4	70	1977	23	CTH D	Reetz Rd	Roeder Rd
4	4	4	70	1977	23	CTH D	Roeder Rd	CTH T
4	4	4	70	1977	23	CTH D	CTH T	Cradle Rd
4	4	4	70	1977	23	CTH D	Cradle Rd	Village Acres Ln
4	4	4	70	1975	44	CTH D	Village Acres Ln	Kristine Ct
4	4	4	70	1975	44	CTH D	Kristine Ct	Old Green Lake Rd
4	4	4	70	1973	44	CTH D	Old Green Lake Rd	STH 23 / STH 73
4	6	6	70	1966	18	CTH D	Old Saint Marie Rd	CTH YY
4	4	4	70	1983	22	CTH D	CTH YY	White River Rd
4	4	4	70	1966	18	CTH D	CTH YY	White River Rd
4	4	4	70	1966	18	CTH D	White River Rd	Mile Rd
4	5	5	70	2004	18	CTH D	Mile Rd	Dead End Rd (2)
4	7	7	65	2008	22	CTH D	Marsh Rd	Disterhaft Rd
4	4	4	65	2008	22	CTH D	Marsh Rd	Disterhaft Rd
4	5	6	70	2004	18	CTH D	Wiese Rd	Big Iland Rd / Big Island Rd
4	5	5	70	2004	18	CTH D	Big Iland Rd / Big Island Rd	Big Island Rd
5	6	6	70	2011	22	CTH D	CTH DD	Marsh Rd
7	7	9	65	2012	18	CTH D	Dead End Rd (2)	County Line Rd
7	7	7	70	2011	22	CTH D	CTH DD	Marsh Rd
8	3	1	65	2014	20	CTH D	First St	Harris St
8		1	70	1955	20	CTH D	Harris St	Old Saint Marie Rd
8	7	8	70	2011	18	CTH D	County Line Rd	CTH DD
10	1	1	70	2017	22	CTH DD	22nd Ave / CTH DD	Pond Lily Rd
10	1	1	70	2017	22	CTH DD	22nd Ave / CTH DD	Pond Lily Rd
10	1	1	70	2017	22	CTH DD	Pond Lily Rd	CTH D
2	2	2	65	1994	22	CTH E	South Rd	CTH F
3	4	4	70	1966	30	CTH E	Chappa Rd	South Rd
3	4	4	65	1994	30	CTH E	Chappa Rd	South Rd
4	4	4	70	1966	30	CTH E	CTH Z / CTH E	Pine Bluff Rd
4	4	4	70	1966	30	CTH E	Pine Bluff Rd	Murphy Rd / South Rd
4	4	4	70	1966	30	CTH E	Murphy Rd / South Rd	Chappa Rd
8	8	8	70	2006	22	CTH EE	Barry Rd / Gulch Ave / CTH EE	STH 44
2	3	3	70	1999	22	CTH F	Forest Ridge Rd / Ripon Rd / CTH	Oak Dr
3	3	3	65	1993	30	CTH F	CTH E	CTH D
3	3	3	65	1993	30	CTH F	CTH D	N Fountain Rd
3	3	3	65	1993	30	CTH F	N Fountain Rd	Ladwig Rd
3	3	3	65	1993	30	CTH F	N Fountain Rd	Ladwig Rd
3	3	3	65	1993	30	CTH F	Ladwig Rd	Thoma Rd
3	3	3	65	1993	30	CTH F	Thoma Rd	S Hunter St
4	4	5	70	1966	30	CTH F	Termini	Cemetery Rd
4	4	5	70	1966	30	CTH F	Cemetery Rd	CTH E
4	5	5	65	2004	22	CTH F	Oak Dr	CTH V
4	5	5	65	2004	22	CTH F	CTH V	CTH AA
4	5	5	65	2004	22	CTH F	CTH AA	Willard Rd

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
4	5	5	65	2004	22	CTH F	Willard Rd	W Hillside Rd
4	5	5	65	2004	22	CTH F	W Hillside Rd	CTH PP / Town Line Rd
4	5	5	65	2004	22	CTH F	CTH PP / Town Line Rd	CTH FF / 37th Ave / Tri-County Rd
4	5	5	65	2004	22	CTH F	CTH PP / Town Line Rd	CTH FF / 37th Ave / Tri-County Rd
5	7	9	65	2012	50	CTH F	S Hunter St	Broadway St / N Hunter St
5	7	9	65	2012	50	CTH F	S Hunter St	Broadway St / N Hunter St
3	4	4	70	2003	22	CTH FF	STH 44	E South St
4	7	7	70	2004	22	CTH FF	CTH HH	STH 44
4	5	5	65	2003	22	CTH FF	CTH H	CTH H
4	5	6	65	2004	22	CTH FF	Mc Connell Rd / CTH FF	CTH F / 37th Ave / Tri-County Rd
6	6	6	70	2003	22	CTH FF	E South St	E Pine St / W Pine St
6	6	6	70	2003	22	CTH FF	E Pine St / W Pine St	E Oak St / W Oak St
6	6	6	70	2003	22	CTH FF	E Oak St / W Oak St	E North St / W North St
6	6	6	70	2003	22	CTH FF	E North St / W North St	Golden Rd
6	6	6	70	2003	22	CTH FF	Golden Rd	CTH FFF / Shady Ln
6	6	6	70	2003	22	CTH FF	CTH FFF / Shady Ln	CTH H
6	6	6	70	1993	22	CTH FF	CTH H	Spring L View Dr / Spring Lake Dr
6	6	6	70	1993	22	CTH FF	Spring L View Dr / Spring Lake Dr	Charles Ave
6	6	6	70	1966	20	CTH FF	Spring L View Dr / Spring Lake Dr	Charles Ave
6	6	6	70	1966	20	CTH FF	Charles Ave	Mill St
6	6	6	70	1960	20	CTH FF	Charles Ave	Mill St
6	6	6	70	1960	20	CTH FF	Mill St	South St / STH 44
7	4	2	65	2015	20	CTH FFF	CTH FF / Shady Ln	Gillette Dr
8		2	65	2015	20	CTH FFF	Gillette Dr	CTH B
2	2	2	70	1977	20	CTH GG	CTH HH	Inglehart Rd
2	2	2	70	1977	20	CTH GG	CTH HH	Inglehart Rd
2	2	2	70	1977	20	CTH GG	Inglehart Rd	Salemville Rd
2	2	2	70	1977	20	CTH GG	Salemville Rd	CTH M
1	1	1	70	1962	18	CTH H	Sixth St	W Fourth St
2	7		70	2012	21	CTH H	CTH II / STH 44	CTH FF
2	2	3	70	1974	21	CTH H	CTH II / STH 44	CTH FF
2	2	2	70	1966	18	CTH H	CTH FF	CTH B
2	2	2	70	1973	18	CTH H	Puckaway Rd	Sixth St
2	2	2	70	1973	18	CTH H	Sixth St	W Fourth St
2	2	2	70	1973	18	CTH H	W Fourth St	W Third St
2	2	2	70	1957	18	CTH H	W Third St	Sherman Ave
2	2	2	70	1957	18	CTH H	Sherman Ave	Charlevoix St
2	2	2	70	1957	18	CTH H	Charlevoix St	Resort St
2	2	2	70	1957	18	CTH H	Resort St	S Lyons St
2	2	2	70	1957	18	CTH H	S Lyons St	Promenade St
2	2	2	70	1957	18	CTH H	Promenade St	Centre St
2	2	2	70	1957	18	CTH H	Centre St	S Dodges Ave
2	2	2	70	1957	18	CTH H	S Dodges Ave	E Fourth St
2	2	2	70	1957	18	CTH H	S Dodges Ave	E Fourth St
2	2	2	70	1966	20	CTH H	S Dodges Ave	E Fourth St
2	4	4	70	1966	20	CTH H	E Fourth St	CTH B
4	4	5	65	2003	22	CTH H	CTH FF	CTH FF

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
4	7	7	65	2015	22	CTH H	CTH B	Grand Marsh Rd
4	6	6	70	1976	20	CTH H	Grand Marsh Rd	Indian Mound Rd
4	10	8	70	2009	22	CTH H	Indian Mound Rd	Grand River Rd
5	7	7	70	1973	18	CTH H	CTH B	CTH B / CTH KK
7	7	7	70	2004	22	CTH H	CTH HH	East Ln
7	7	7	70	2004	22	CTH H	East Ln	STH 44
7	8	7	70	2009	22	CTH H	CTH B	CTH B
7	7	7	70	1976	20	CTH H	CTH B	Grand Marsh Rd
7	7	7	70	2006	22	CTH H	CTH B / CTH KK	Marquette Rd
7	7	7	70	2006	22	CTH H	Marquette Rd	Hilltop Rd
7	7	7	70	2006	22	CTH H	Hilltop Rd	Toledo Rd
7	7	7	70	2006	22	CTH H	Toledo Rd	STH 73
7	7	7	70	2006	22	CTH H	Toledo Rd	STH 73
7	8	9	70	2010	22	CTH H	STH 73	CTH I
7	8	9	70	2010	22	CTH H	CTH I	CTH O
7	8	9	70	2010	22	CTH H	CTH O	TN RD 54 / Welk Rd
7	8	9	70	2010	22	CTH H	CTH O TN RD 54 / Welk Rd	Margaret St / STH 44
9	10	8	70	2009	22	CTH H	Indian Mound Rd	Grand River Rd
10	10	8	65	2015	22	CTH H	Grand River Rd	CTH KK
10	10	8	65	2015	22	CTH H	CTH KK	Puckaway Rd
3	5	5	65	2003	22	CTH HH	CTH H / CTH HH	CTH GG
3	3	4	70	2003	22	CTH HH	CTH H / CTH HH	CTH GG
5	5	5	70	1966	18	CTH HH	CTH FF / CTH HH	CTH II / Newell Rd / CTH HH
5	5	5	65	2003	22	CTH HH	CTH II / Newell Rd / CTH HH	CTH H / CTH HH
5	6	6	70	1998	22	CTH HH	CTH GG	CTH X / STH 44
6	6	6	70	1966	18	CTH HH	Barry Rd / STH 44 / CTH HH	CTH FF / CTH HH
2	2	2	70	1966	19	CTH I	Manchester St / STH 44	CTH U
2	2	2	70	1966	20	CTH I	Manchester St / STH 44	CTH U
2	2	2	70	1966	20	CTH I	CTH U	CTH O
2	2	2	70	1966	20	CTH I	CTH O	CTH O
2	3	3	70	1978	20	CTH I	CTH O	Village Rd (2)
2	3	3	70	1978	20	CTH I	Village Rd (2)	CTH A / Mackford Hill Rd
3	4	4	70	1966	18	CTH I	CTH U	CTH U
5	7	8	65	2011	22	CTH I	CTH S	STH 44 / STH 73
6	7	8	65	2011	18	CTH I	CTH H	CTH S
6	7	8	65	2011	22	CTH I	CTH H	CTH S
5	5	5	70	2003	22	CTH II	CTH HH / Newell Rd	CTH H / STH 44
7	5	5	70	2012	20	CTH II	CTH HH / Newell Rd	CTH H / STH 44
2	3	4	70	1998	22	CTH J	N Clinton St / N Fulton St / CTH J	CTH P
2	3	3	70	1998	22	CTH J	CTH P	Huckleberry Rd
2	3	3	70	1998	22	CTH J	CTH P	Huckleberry Rd
2	3	4	70	1998	22	CTH J	Huckleberry Rd	CTH P
3	3	4	70	1998	22	CTH J	CTH P	CTH CC / Swamp Rd
3	4	4	70	1966	20	CTH J	CTH CC / Swamp Rd	Puchyan Marsh Rd
3	4	4	70	1966	20	CTH J	Puchyan Marsh Rd	Saint Marie Rd
3	4	4	70	1966	20	CTH J	Saint Marie Rd	CTH CC
3	4	4	70	1966	20	CTH J	Saint Marie Rd	CTH CC

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
3	3	4	70	1966	20	CTH J	CTH CC	CTH A
4	4	4	70	1994	22	CTH J	Soda Rd / CTH J	Holmes Rd
4	4	4	70	1994	22	CTH J	Holmes Rd	Otto Rd
4	4	4	70	1994	22	CTH J	Otto Rd	Pleasant Dr
4	4	4	70	1994	22	CTH J	Pleasant Dr	Harris St / STH 73
4	3	6	70	2012	22	CTH J	CTH A	CTH A
4	5	6	70	1994	22	CTH J	CTH A	Springbrook Rd
8	4	4	70	1994	22	CTH J	Pleasant Dr	Harris St / STH 73
8	7	9	65	2013	22	CTH J	Springbrook Rd	Brooklyn J / STH 49
2	2	2	70	1966	20	CTH JJ	CTH Q	Utley Quarry Rd
2	2	2	70	1966	20	CTH JJ	Utley Quarry Rd	Schure Rd
2	2	2	70	1966	22	CTH JJ	Utley Quarry Rd	Schure Rd
2	2	2	70	1966	22	CTH JJ	Utley Quarry Rd	Schure Rd
2	2	2	70	1966	22	CTH JJ	Schure Rd	CTH E / Liner Rd / Main St / CTH JJ
3	5	5	70	1979	22	CTH K	CTH N / Horner Rd	CTH A / Thomas Rd
3	5	7	70	1979	22	CTH K	CTH N / Horner Rd	CTH A / Thomas Rd
6	7	9	70	2012	22	CTH K	STH 73	Maple Rd
6	7	8	70	2012	22	CTH K	Maple Rd	Parkway
6	7	8	70	2012	22	CTH K	Parkway	Rex St
6	7	8	70	2012	22	CTH K	Parkway	Rex St
6	7	8	70	2012	22	CTH K	Rex St	Grace St
6	7	8	70	2012	22	CTH K	Grace St	S Lakeshore Dr
6	7	8	70	2012	22	CTH K	Grace St	S Lakeshore Dr
6	7	8	70	2012	22	CTH K	S Lakeshore Dr	Blackbird Point Rd
6	7	8	70	2012	22	CTH K	S Lakeshore Dr	Blackbird Point Rd
6	7	8	70	2012	22	CTH K	Blackbird Point Rd	Kahl Rd
6	7	8	70	2012	22	CTH K	Kahl Rd	Oakwood Beach Rd
6	7	8	70	2012	22	CTH K	Oakwood Beach Rd	Hess Rd
6	7	9	70	2012	22	CTH K	Hess Rd	CTH O
6	7	8	70	2012	22	CTH K	CTH O	Lake View Rd
6	7	8	70	2012	22	CTH K	Lake View Rd	CTH N / Horner Rd
6	7	7	65	2012	24	CTH K	CTH A / Thomas Rd	CTH A / Scott Hill Rd
6	7	9	65	2012	24	CTH K	CTH A / Scott Hill Rd	Craig Rd
6	7	9	65	2012	24	CTH K	Craig Rd	Brooklyn G / Prairie Rd / Skunk Hollow Rd
6	7	9	65	2012	24	CTH K	Brooklyn G / Prairie Rd / Skunk H	CTH KK / Searle Rd
4	6	6	70	2003	22	CTH KK	Nicolet Rd	CTH B / CTH H
6	6	6	70	2003	22	CTH KK	CTH H	Nicolet Rd
10	2	2	70	1966	20	CTH M	N County Line Rd / CTH M	CTH GG
10	2	2	70	1966	20	CTH M	CTH GG	Yunker Rd
10	2	2	70	1966	20	CTH M	Yunker Rd	Winding Ln
10	2	2	70	1966	20	CTH M	Winding Ln	CTH X / Valley Rd
2	2	2	70	1974	21	CTH N	CTH B / Miller Rd	Center Rd
2	2	2	70	1974	21	CTH N	Center Rd	CTH K / Horner Rd
5	7	7	65	2010	22	CTH N	STH 44 / Tichora Rd	CTH B / Miller Rd
1	2	2	70	1966	20	CTH O	Lovers Ln	Hickory Dr
2	2	2	70	1966	20	CTH O	Hickory Dr	CTH I
2	2	2	70	1966	20	CTH O	CTH I	CTH I

YEAR 2017 1 = Blue 2 = Purple 3 = Orange 4 = Green

2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
2	2	2	70	1966	20	CTH O	CTH I	Bridge St / Summit St E / CTH O
2	2	2	70	1973	20	CTH O	CTH B	Roy Creek Rd
2	2	2	70	1973	20	CTH O	Roy Creek Rd	Center Rd
2	2	1	70	1966	20	CTH O	Center Rd	CTH K
6	7	7	70	1966	20	CTH O	CTH X	Lovers Ln
7	7	7	70	2011	22	CTH O	CTH AW	Prairie Dr
7	7	7	70	2011	22	CTH O	Prairie Dr	Lake Maria Rd
7	7	7	70	2011	22	CTH O	Lake Maria Rd	Lake Maria Rd
7	7	7	70	2011	22	CTH O	Lake Maria Rd	CTH X
7	8	9	70	2010	22	CTH O	CTH H / TN RD 54 / Welk Rd	CTH H
8	8	8	65	2011	20	CTH O	CTH B	CTH B
10	8	10	70	2017	22	CTH O	CTH H	Kearley Rd / Phelps Rd
10	8	10	70	2017	22	CTH O	Kearley Rd / Phelps Rd	Eric Rd
10	8	10	70	2017	22	CTH O	Eric Rd	CTH B
7	8	7	70	1966	18	CTH P	CTH J	Sina Rd
7	8	7	70	1966	18	CTH P	Sina Rd	CTH J
7	8	7	70	1966	18	CTH P	Sina Rd	CTH J
8	10	7	65	2015	22	CTH PP	Dead End Rd / STH 23 / STH 49 /	Mc Connell Rd
8	10	7	65	2015	22	CTH PP	Mc Connell Rd	CTH F / Town Line Rd
4	4	4	70	1997	20	CTH Q	CTH AW	Prairie Dr
4	4	4	70	1997	20	CTH Q	Prairie Dr	Lake Maria Rd
4	4	4	70	1997	20	CTH Q	Lake Maria Rd	Biesenthal Dr
4	4	4	70	1997	20	CTH Q	Biesenthal Dr	CTH X / Short Dr
4	4	4	70	1997	20	CTH Q	CTH X / Short Dr	Hickory Dr
4	4	5	70	1997	20	CTH Q	Hickory Dr	CTH S
4	4	3	70	1997	20	CTH Q	CTH S	CTH S
10	4	4	70	2017	22	CTH Q	CTH S	Menke Dr Private
10	4	5	70	2017	22	CTH Q	Menke Dr Private	CTH JJ
10	4	5	70	2017	22	CTH Q	Menke Dr Private	CTH JJ
10	4	5	70	2017	22	CTH Q	CTH JJ	Utley Quarry Rd
10	4	5	70	2017	22	CTH Q	Utley Quarry Rd	Utley Rd
10	3	4	70	2017	22	CTH Q	Utley Rd	Prairie Rd / STH 44
1			70	2014	20	CTH S	CTH A	CTH Q
3	3	3	70	1967	20	CTH S	James St / John St / CTH S	Village Rd (1)
3	3	3	70	1967	20	CTH S	Village Rd (1)	Village Rd (2)
3	3	3	70	1967	20	CTH S	Village Rd (2)	CTH A
4	3	3	70	1997	20	CTH S	CTH Q	CTH Q
5	8	5	65	2008	22	CTH S	CTH I	John St / Moorland Dr / CTH S
6	8	7	65	2008	22	CTH S	Main St	STH 44 / STH 73
6	8	5	65	2008	22	CTH S	Heritage Rd / STH 73	CTH I
7	8	7	65	2008	22	CTH S	CTH X / East Friesland Rd	South Gate Rd
7	8	7	65	2008	22	CTH S	South Gate Rd	Front St
7	8	7	65	2008	22	CTH S	Front St	Main St
7	8	7	65	2007	22	CTH S	CTH Q	N Brave Rd
7	8	7	65	2007	22	CTH S	N Brave Rd	Schure Rd
7	8	7	65	2007	22	CTH S	Schure Rd	CTH E / CTH AS / CTH S
8	9	9	70	2012	22	CTH S	Old CTH A / Tichora Rd	Old CTH A

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2017	2015	2013	Surface Type		Width	On Route	At Route	Toward Route
8	9	9	70	2012	22	CTH S	Old CTH A	CTH A
9			70	2014	20	CTH S	CTH A	CTH Q
10	10	9	70	2015	22	CTH S	CTH A	Old CTH A / Tichora Rd
3	3	3	70	1979	22	CTH T	Bend Rd	Oxbow Trl
3	3	3	70	1979	22	CTH T	Oxbow Trl	Cradle Rd
3	3	3	70	1979	22	CTH T	Cradle Rd	S Farmer St / South St / CTH T
7	7	8	70	2006	22	CTH T	STH 73	CTH W
7	7	8	70	2006	22	CTH T	CTH W	CTH D
7	7	8	70	2006	22	CTH T	CTH D	Bend Rd
8	7	8	70	2006	22	CTH T	STH 23	Hickory Hill Ln
8	7	8	70	2006	22	CTH T	Hickory Hill Ln	Cherry Ln
8	7	8	70	2006	22	CTH T	Cherry Ln	Sugar Loaf Rd
8	7	8	70	2006	22	CTH T	Sugar Loaf Rd	Cottage Rd
8	7	8	70	2006	22	CTH T	Cottage Rd	Lazy L Rd
8	7	8	70	2006	22	CTH T	Lazy L Rd	Judy Ln
8	7	8	70	2006	22	CTH T	Judy Ln	CTH TT
8	7	8	70	2006	22	CTH T	CTH TT	STH 73
2	2	2	70	1966	18	CTH TT	CTH T	STH 23
1	1	1	70	1966	20	CTH U	Zink Rd	Lovers Ln
1	1	1	70	1966	20	CTH U	Lovers Ln	CTH I
2	2	2	70	1966	20	CTH U	CTH X	Zink Rd
3	3	3	70	1978	20	CTH U	STH 73	Lake Maria Rd
3	3	3	70	1978	20	CTH U	Lake Maria Rd	CTH X
3	3	3	70	1978	20	CTH U	CTH X	CTH X
3	4	4	70	1966	18	CTH U	CTH I	CTH I
7	8	7	70	2001	22	CTH U	CTH I	Manchester St / STH 44 / Airport Dr / CTH U
7	8	7	70	2001	22	CTH U	CTH I	Manchester St / STH 44 / Airport Dr / CTH U
7	8	8	70	2012	22	CTH V	Roberts Ln	STH 49
7	8	6	70	2001	22	CTH V	STH 49	CTH VV
7	8	6	70	2001	22	CTH V	CTH VV	Forest Ridge Rd
7	8	6	70	2001	22	CTH V	Forest Ridge Rd	CTH F
7	8	6	70	2000	22	CTH V	CTH F	Willard Rd
7	8	6	70	2000	22	CTH V	Willard Rd	White Ridge Rd
7	8	6	70	2000	22	CTH V	White Ridge Rd	Meadowbrook Rd
7	8	6	70	2000	22	CTH V	Meadowbrook Rd	37th Ave / Hillside Rd / CTH V
8	8	8	70	2012	22	CTH V	CTH A / Puchyan Rd	Roberts Ln
3	4	4	70	1995	22	CTH VV	CTH V	Dartford St / Pleasant St / CTH VV
6	8	9	70	2011	22	CTH W	CTH D	Reetz Rd
6	8	9	70	2011	22	CTH W	Reetz Rd	CTH T
6	8	9	70	2011	22	CTH W	CTH T	Salbego Ln
6	8	9	70	2011	22	CTH W	Salbego Ln	STH 23 / STH 73
3	8	3	70	1978	20	CTH X	CTH U	CTH U
3	8	4	70	2012	22	CTH X	CTH A	CTH A
7	8	6	70	1999	22	CTH X	CTH HH / STH 44	Winding Ln
7	8	6	70	1999	22	CTH X	CTH HH / STH 44	Winding Ln
7	8	6	70	1999	22	CTH X	Winding Ln	Salemville Rd
7	8	6	70	1999	22	CTH X	Salemville Rd	South Gate Rd

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2017	**2015**	**2013**	**Surface Type**		**Width**	**On Route**	**At Route**	**Toward Route**
7	8	6	70	1999	22	CTH X	South Gate Rd	Lane No 5
7	8	6	70	1999	22	CTH X	Lane No 5	CTH M / Valley Rd
7	8	6	70	2000	22	CTH X	CTH M / Valley Rd	Proscarian Rd
7	8	6	70	2000	22	CTH X	Proscarian Rd	Lane No 7
7	8	6	70	2000	22	CTH X	Lane No 7	CTH S / East Friesland Rd
7	8	6	70	2000	22	CTH X	CTH S / East Friesland Rd	STH 73
7	8	7	70	2001	22	CTH X	STH 73	CTH U
7	8	7	70	2001	22	CTH X	CTH U	CTH O
7	8	7	70	2001	22	CTH X	CTH U	CTH O
7	8	7	70	2001	22	CTH X	CTH O	CTH A
7	8	7	70	2001	22	CTH X	CTH A	Pleasant Dr
7	8	7	70	2001	22	CTH X	Pleasant Dr	Union Rd
7	8	7	70	2001	22	CTH X	Union Rd	Berg Dr
7	8	7	70	2001	22	CTH X	Berg Dr	CTH Q / Short Dr
1	1	1	70	1966	18	CTH Y	Eagle Rd / STH 73	Black Creek Rd
10	10	1	70	2015	22	CTH Y	Black Creek Rd	CTH YY
10	10	1	70	2015	22	CTH Y	CTH YY	STH 73
10	10	1	70	2015	22	CTH Y	CTH YY	STH 73
0	1	1	70	1966	18	CTH Y jurisdicational transfer	STH 73	Losinski Rd
0	1	1	70	1966	18	CTH Y jurisdicational transfer	Losinski Rd	STH 73
5	1	1	70	1966	18	CTH YY	CTH Y	CTH D
8		5	70	1966	20	CTH Z	CTH E	CTH Z

August Committee Meeting
Road Review

Date & Time to be determined

Road Review Schedule:

CTH	
A	(CTH VV – CTH AA)
F	(Forest Ridge – Oak Rd)
F	(Berlin – County Line)
D	(CTH F – CTH DD)
Y	(Black Creek – STH 73)
T	(Princeton – Bend Rd)
TT	(STH 23 – STH T)
J	(CTH P – STH 49)
N	(CTH K – CTH B)
O	(CTH K – CTH B)
JJ	(CTH Q – County Line)
I	(CTH A – STH 44)
U	(CTH I – Lake Maria)
GG	(CTH M – CTH HH)
H	(STH 44 – CTH FF)
H	(CTH KK – CTH KK)

CTH Q Grand River Bridge Summary

	Experience	Similar Projects	Reference Contaact Info	Understanding/Approach
AECOM	CTH I over Grand River	met	met	made site visit spawning, quarry, floodplain, wetland,dwy/culvert
Ayres Associates	Counties, Local, state	met	met	made site visit flooding, spawning, wetland, nesting, road closure gas line to be relocated
Corre	CTH S over Grand River	met	met	made site visit wetland, bumble bees, long eared bat
Gremmer & Associates	Winnebago, FDL	met	met	site visit unknown
Jewell Associates	Counties, Local througout Wisconsin	met	met	site visit flood waters
MSA Professional Services	Gillette Drive over Belle Fountain Creek CTH D (STH 23 - N City of Princeton)	met	met	site visit flood waters, wetlands, gas line east side
Short Elliott Hendrickson	CTH D over White River	met	met	site visit wetlands, marshlands, farming, underground gas
Strand Associates	Dane, Sheboygan, Marathon, etc	met	met	site visit floodplain, wetland, wildlife impacts, gas line
Westbrook Associated Engineers	Counties, Local, State	met	met	site visit wetlands, underground gas line on east side to be relocated, temporary easement, highway easement

On Call Engineering

Hourly Fee Schedule	2019	2020
Ayres		
Manager	174.00	179.00
Senior Project Engineer	166.00	171.00
Engineer 3	149.00	153.00
Engineer 2	116.00	119.00
Engineer 1	86.00	89.00
Traffic Specialist 3	186.00	192.00
Traffic Specialist 2	123.00	127.00
Traffic Specialist 1	96.00	99.00
Senior LA	128.00	132.00
LA	83.00	85.00
Scientist	82.00	84.00
Surveyor (PLS)	106.00	109.00
Technician 3	91.00	94.00
Technician 2	78.00	80.00
Technician 1	69.00	71.00
Other	67.00	69.00
Bridge Inspection per hour	235.00	242.00
Corre		
Principal in Charge	140.00	140.00
Project Manager (Structural)	140.00	140.00
Project Manager (Roadway)	120.00	120.00
Senior Engineer	105.00	105.00
Stormwater Engineer	100.00	100.00
Design Engineer	90.00	90.00
Staff Engineer	65.00	65.00
CAD Specialist	80.00	80.00
Environmental Specialist	90.00	90.00
Historian	90.00	90.00
Surveyor	90.00	90.00
Administrative Professional	60.00	60.00
Appraiser	110.00	110.00
Lead Acquisition Agent	105.00	105.00
Acquisition Agent	65.00	65.00
Relocation Agent	115.00	115.00
Plat Specialist	100.00	100.00
Senior Construction Manager	90.00	90.00
Lead Inspector	75.00	75.00
Inspector	65.00	65.00
Survey Crew Chief	90.00	90.00
Assistant Surveyor	65.00	65.00
Bridge Inspection per bridge	215.00	215.00
(215x39=8,385 per bridge)		
KBIS		
Bridge Inspection only	150.00	150.00
Bridge Insp, underwater	850.00	850.00
Program Manager Fee / hr	150.00	150.00
No on Call Engineering		

Hourly Fee Schedule	2019	2020
Westbrook		
Project Manager - Design	162.50	162.50
Structural Engineer - Design	130.00	130.00
Project Engineer - Design	120.00	120.00
Staff Engineer - Design	85.00	85.00
Design Technician - Design	67.50	67.50
Registered Surveyor - Design	95.00	95.00
Surveyor - Design	80.50	80.50
Project Manager - Constr	162.50	162.50
Professional Engineer - Constr	125.00	125.00
Registered Surveyor - Constr	95.00	95.00
Staff Engineer - Constr	85.00	85.00
Technician - Constr	67.50	67.50
Mileage / mile	0.58	0.58
meals / lunch	13.00	13.00
Bridge Inspection	5,703.00	6,112.00
(11815/39=302.95 per bridge)		
Gremmer		
Project Manager	135.00	135.00
Project Engineer/Senior Designer	120.00	120.00
Civil Engineer V	105.00	105.00
Professional Land Surveyor	95.00	95.00
One-Man Survey Crew w/GPS	120.00	120.00
Civil Engineer IV/Specialist V	95.00	95.00
Civil Engineer III/Specialist IV	85.00	85.00
Civil Engineer II/Specialist III	80.00	80.00
Civil Engineer I/Specialist II	74.00	74.00
Eng Specialist I/Civil Tech III	68.00	68.00
Divil Eng Tech II	62.00	62.00
Civil Eng Tech I	55.00	55.00
Office Services	54.00	54.00
Mileage	IRS Rate	IRS Rate
Meals, Lodging, office, travel	At Cost	At Cost
Copies Black/White - each	0.10	0.10
Copies Color - each	0.25	0.25
Large Plots Black/White - SF	1.00	1.00
Large Plots Color - SF	2.00	2.00
Mylar - SF	2.00	2.00
Outside Printing	At Cost	At Cost
Expert Witness	200.00	200.00
Bridge Inspection (Sublet to Jewell)		
Jewell Associates Engineers/hour	110.00	115.00

Hrly Fee Average w/O Bridge Insp:

112.50 Ayres

93.18 Corre

106.29 Westbrook