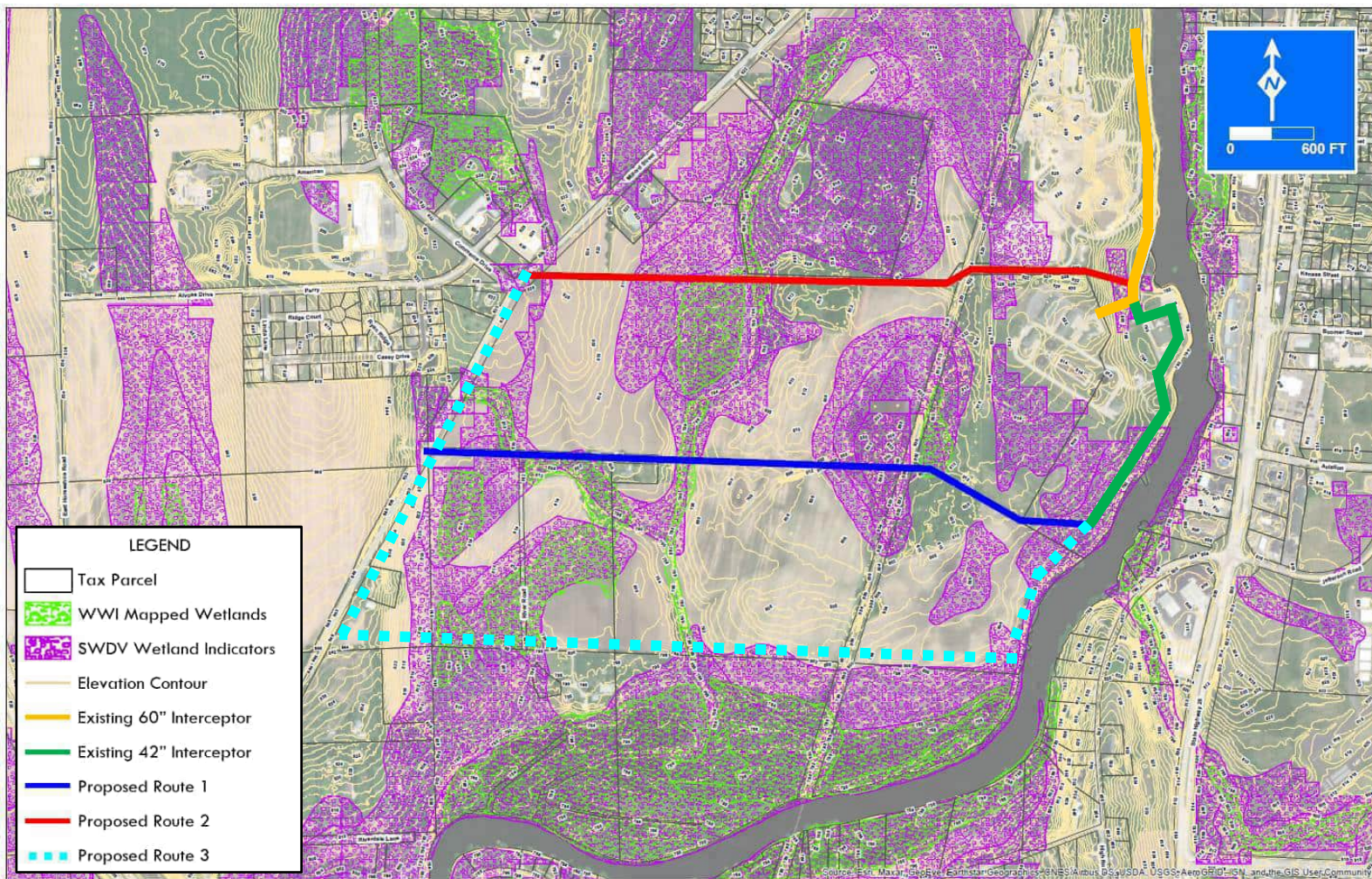




West Interceptor Route Analysis and Design



3311 Weeden Creek Road | Sheboygan, WI 53081
920.208.0296 | donohue-associates.com



Donohue & Associates, Inc.
3311 Weeden Creek Road | Sheboygan, WI 53081
920.208.0296 | donohue-associates.com

November 6, 2024

Mr. Peter Hartz, Wastewater Manager
Watertown Wastewater Treatment Plant
800 Hoffman Drive
Watertown, WI 53094
phartz@watertownwi.us

Re: West Interceptor Route Analysis and Design

Dear Mr. Hartz:

The City of Watertown is contemplating expansion of their collection system into its Southwest service area. We understand this project is important for both residential and industrial growth in the community. As part of the Project Approach and Scope, we will leverage available capacity analyses, land use reports, and GIS mapping to supplement an updated Hydraulic Capacity Analysis. This will ensure the Interceptor is sized and routed as cost effectively as possible.

Appreciating the significance of the project, we have carefully and deliberately assembled an exceptional team that combines substantial interceptor design experience and excellent technical expertise. The most compelling reasons to trust the Donohue team are outlined below.

1. **Experienced and Proven Engineering Firm** – Donohue is one of the largest wastewater treatment and conveyance design firms in the United States and the second largest based in the upper Midwest. Our specialization and focus have allowed us to complete design of 500,000+ linear feet of wastewater conveyance infrastructure and more than 3,000 wastewater projects since our firm was formed 25 years ago. We have an impressive record of successful wastewater projects for large and small clients throughout the Midwest.
2. **Exceptional and Relevant Team Experience** – Our proposed project manager, Joe Holzworth, PE, has successfully led multiple collection system planning, design, and construction projects. He is an attentive, proactive, and communicative project manager, traits that will prove particularly valuable to Watertown and stakeholders over the course of this project. The proposed project QC reviewer, Sandy Kimmler, PE, has led many other large sewer system projects, including the planning and design of \$20M collection system improvements for the City of Willmar, Minnesota. This work included 6.5 miles of large diameter interceptor sewer crossing waterways, wetlands, roadways, railroads, and several trenchless construction segments. These project leaders will be joined by a deep bench of Donohue support. Should Phase 2 proceed, we also have a team of subconsultants with specific expertise relative to your project, including geotechnical/tunneling, subsurface investigation, traffic signals and lighting, survey, and easement support.
3. **Proximity** – The core of our team is in Sheboygan, Wisconsin with other Wisconsin offices in Milwaukee and Appleton. This proximity makes it easy and efficient for us to meet in person with the City and project stakeholders – e.g., municipalities and businesses – during Phase 1 and 2 planning and design activities.

We appreciate your consideration for this project, and our dedicated team looks forward to the opportunity to begin working with you and the City of Watertown staff. We are confident we have the expertise, experience, and availability to deliver a successful project. We welcome any questions you may have and please feel free to contact us at the phone/email below.

Sincerely,

A handwritten signature in black ink, appearing to read 'Autumn M. Fisher'.

Autumn M. Fisher
Client Services Manager & Operations Specialist
afisher@donohue-associates.com | 920.803.7336

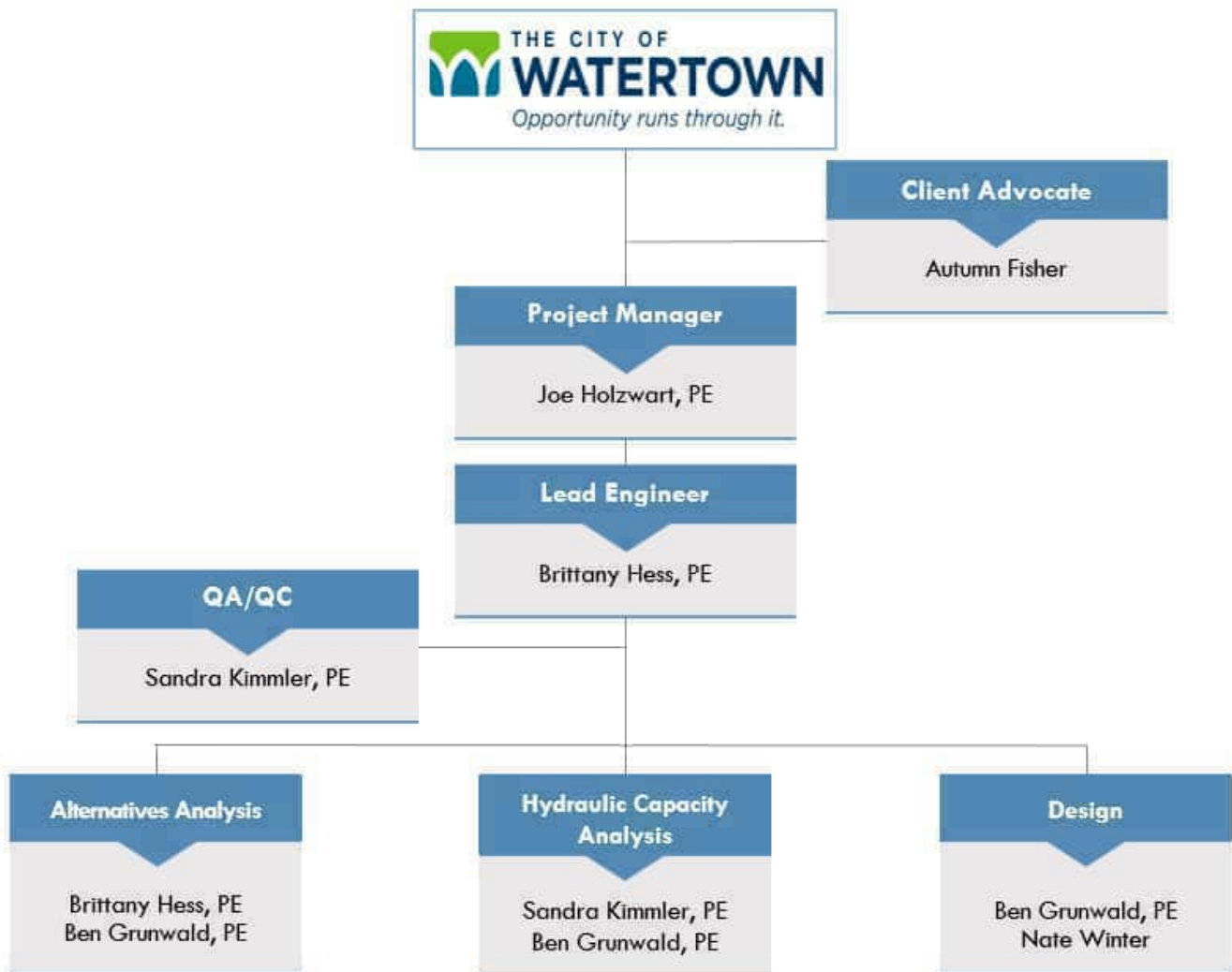
A handwritten signature in black ink, appearing to read 'Joseph C. Holzworth'.

Joseph C. Holzworth, PE
Project Manager
jholzworth@donohue-associates.com | 920.803.7308

Project Team

Project Team/Personnel

Several of our proposed team members, including Joe Holzwart, Project Manager and Sandra Kimmler, QC Reviewer, have extensive collection system experience through recent and ongoing interceptor projects. The figure below contains an overview of our proposed Project Team as well as brief background summaries; Full resumes are available upon request.



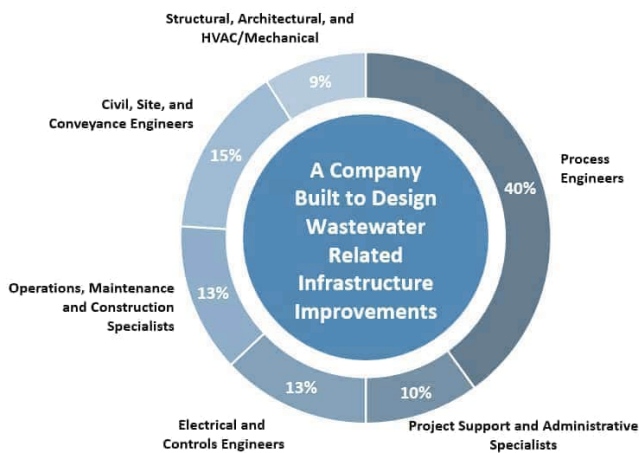
Name Role(s) Years of Experience Firm Office	Relevant Qualifications and Experience
Joe Holzwart, PE Project Manager Years of Experience: 19 Donohue Sheboygan, WI	■ Joe is an experienced civil engineer who specializes in collection system infrastructure including sanitary sewers, interceptors, force mains, and storm sewers. ■ Applicable project experience includes: ■ Project Manager/Design Engineer: Dutchman Creek/Scott-Bayshore Interceptor Project. NEW Water Green Bay, WI ■ Project Manager/Design Engineer: Ninth Street Interceptor Upgrades. NEW Water De Pere, Wisconsin ■ Quality Control Review: Newton and Nelson Creek Trunk Sewer Improvements. Superior, Wisconsin ■ Lead Design Engineer: Greenmeadow Sanitary Infrastructure Evaluation and Design. Waukesha, Wisconsin
Sandra Kimmler, PE QC/Alternatives Analysis/Engineering Report Years of Experience: 35 Donohue Sheboygan, WI	■ Sandra is a proven senior civil engineer highly experienced in the planning and design of sanitary sewer interceptors, force mains, storm sewers, and pump stations. ■ Applicable project experience includes: ■ Lead Civil Engineer: Water Interceptor System Master Plan. NEW Water Green Bay, WI ■ Project Manager / Civil Engineer: Newberry Interceptor Sewer. Appleton, Wisconsin ■ Project Manager: Greenmeadow Sanitary Infrastructure Evaluation and Design. Waukesha, Wisconsin ■ Project Manager / Lead Design Engineer: Interceptor Sewer, Force Mains, and Pump Stations. Willmar, Minnesota
Brittany Hess, PE Lead Engineer / Alternatives Analysis Years of Experience: 16 Donohue Sheboygan, WI	■ Brittany has spent most of her career working within conveyance system infrastructure to help clients extend the useful life of their assets. ■ Her engineering and evaluation experience includes several projects rerouting conveyance assets to better service residents located in a variety of sewer service areas.
Ben Grunwald Alternatives Analysis / Design Years of Experience: 7 Donohue Sheboygan, WI	■ Ben a civil engineer with experience in the design of wastewater collection and stormwater system infrastructure and permitting. ■ He is involved in identifying and evaluating design alternatives, calculating existing and future sanitary flows, and sizing and routing gravity sewers and force mains. ■ Ben has had significant design roles on the Waukesha pump station consolidation projects and well as Green Bay NEW Water projects.
Nate Winter Design Years of Experience: 3 Donohue Sheboygan, WI	■ Nate is a civil engineer who has assisted in the design of water and wastewater treatment plants. ■ His experience also includes assisting the lead civil engineer in detailed construction drawings, cost estimates, and specifications. ■ His design efforts have included construction of new sanitary sewer, force main, lift station, pavement, sidewalk, driveway, and lawn restoration.

Firm Qualifications

Firm Qualifications

Donohue: Wastewater-Focused Firm Built to Deliver

Donohue & Associates, Inc. is an award-winning, employee-owned wastewater specialty firm. Donohue is headquartered in Wisconsin and over half of the firm's 120+ professionals are registered professional engineers.



Our impressive track record of successfully delivering complex projects is attributed to the technical experience of our senior project managers and engineers, our attention to detail, and our collaborative culture. We listen to and work closely with our clients' departments: management, engineering, operations, maintenance, procurement, and diversity. Since our beginning, Donohue has established an outstanding record for client service

and technical ability. That experience allows us to meet our clients' expectations for high quality projects that are delivered within budget and on schedule.

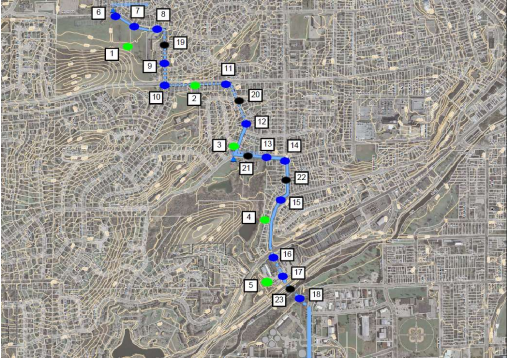
Donohue's Midwest clients repeatedly trust to deliver their most challenging wastewater improvement projects. We have worked on over 3,500 wastewater projects for more than 400 Midwest clients since forming in 1997. As a testament to our success, Donohue continues to be ranked by ENR in the top 20 design firms in the Wastewater Treatment category. Since 2002, Donohue has received 43 Engineering Excellence awards, a testament to what can happen when the client/engineer team collaboratively develops innovative, yet practical solutions.

The Interceptor Project matrix on the following page provides a glimpse of the range of Donohue's experience with projects similar in scope to that of the West Interceptor project. Also included are a couple of brief project experience summaries that have common elements to Watertown's upcoming project. Additional project experience summaries are available upon request.

Should the project scope require sub-consulting services for Phase 2 design, Donohue partners with a wide range of providers specializing in surveying, soil analysis, wetland delineation, geotechnical services and more. Subcontractor details can be provided if desired.

85% % of our work that is wastewater-related	Top 20 ENR ranking in the wastewater firm category	\$2 Billion Value of Donohue-designed Midwest wet infrastructure
20 Average years of experience of our engineers	55% % of our staff that are civil / process engineers or operations specialists.	7 BGD Capacity of Midwest WWTFs where we have worked

Project Experience

Dutchman Creek Interceptor NEW Water: Green Bay, Wisconsin	
	Project Team: Joe Holzwart, Sandra Kimmler, Ben Grunwald
	Services Provided: Study, Design, CM
	Project Highlights 4,800' and 24" - Alternative route analysis - Interceptor design & rehabilitation - Creek/wetland crossings, permitting, & coordination - Easement acquisition - Trenchless construction - Maintaining flow during construction
Greenmeadow Sanitary Sewer Interceptor: Waukesha, Wisconsin	
	Project Team: Sandra Kimmler, Joe Holzwart, Tracy Webb
	Services Provided: Study, Design, CM
	Project Highlights 6,000' and 18" & 36" - Phased geotechnical investigation, surveying & permitting - Alternative route analysis - Interceptor design development - Creek/wetland crossings, permitting, & coordination - Easement acquisition - Trenchless construction

Additional Donohue Collection System Experience

The abbreviated project matrix below illustrates the breadth of Donohue's experience with projects of a similar nature to the West Interceptor project.

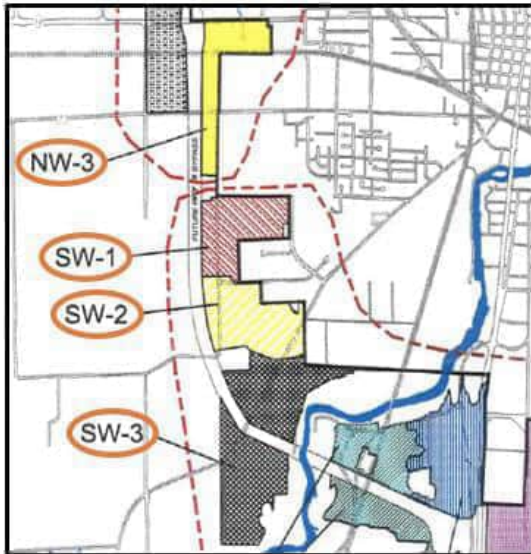
DONOHUE SELECTED COLLECTION SYSTEM EXPERIENCE			Diameter	Length (ft)	Interceptor/Sewer	Rehabilitation/Lining	Alignment Analysis	Horizontal Directional Drilling	Bore and Jack	Tunneling	Transit Analysis	Decontamination	Wetlands	River Crossing	Contaminated Soils	Highly Developed Corridor	Easement Acquisition	Railroad Crossing	Plans and Specifications	Construction Services
Interceptor, Stevens Point, WI	24"	10,000																		
Green Meadow Interceptor, Waukesha, WI	36"	9,200																		
Clybourn St. MIS Rehabilitation, Milwaukee MSD, WI	72"	8,050																		
West Side Pump Station Consolidation, Waukesha, WI	15" San & 16" FM	6,200																		
Greenmeadow Interceptor, Waukesha, WI	Dual 18" & 36"	6,000																		
South Side Pump Station Consolidation, Waukesha, WI	15", 18"	5,500																		
Dutchman Creek Interceptor, Green Bay MSD, WI	24"	4,800																		
Newton Creek & Nelson Creek Trunk Sewer, Superior, WI	8-30"	4,300																		
Scott Bayshore Interceptor, NEW Water, Green Bay, WI	20,21,24"	3,500																		
Sanitary Sewer Replacement, Sister Bay, WI	8-18"	3,400																		
Charles Street Interceptor, DePere and Green Bay MSD, WI	18-24"	2,900																		
Bruce St./Muskego Ave. MIS, Milwaukee MSD, WI	36"	2,830																		
Reid Drive Interceptor, Appleton, WI	24"	2,372																		
Newberry Interceptor, Appleton, WI	30"	1,300																		
Southern Interceptor, Willmar, MN	48-54"	20,000																		
US 20 & Walnut Street Interceptor, St. Joseph County, IN	15-30"	12,000																		
Blue River Interceptor, Columbia City, IN	12-36"	8,000																		
Millersburg Interceptor Sewer, Evansville, IN	21-30"	7,000																		
Darrough Chapel Interceptor, Kokomo, IN	18-20"	4,250																		
Stockwell and S-5 Interceptors, Evansville, IN	24-42"	4,200																		

Project Approach

Project Approach

Understanding

The City of Watertown is seeking proposals for a qualified engineering firm to evaluate the expansion of their sanitary sewer system for the Phase 1: Preliminary Design of a portion of the West Interceptor. According to the 2002 Sanitary Sewer System Evaluation and Capacity Plan completed by Applied Technologies, Inc. (ATI), the West Interceptor is intended to serve the North, Northwest, and portions of the Southwest service areas. SW-1 and SW-2 will flow by gravity with SW-3 being served by a future lift station and force main. Sewer service planning has evolved since the 2002 study, and the immediate need is providing service to the SW-2 service area. The West Interceptor also includes future considerations for NW-3, SW-1 and SW-3 for increased sanitary sewer customers.



Anticipated Future Service Area Served by the West Interceptor

Residential developments, including the Loos Development Concept located in SW-2 service area, continue to expand throughout the City's southwest quadrant. These developments are consistent with the City's Planned Urban Area Land Use within the Watertown Sewer Service Area Plan. Additionally, an industrial user in the area has requested a 50% discharge increase into the City's collection system.

Currently, a 15" sewer main along S Milford St. serves the industrial contributor and a portion of the SW-2 area. A 2023 capacity analysis, conducted

by Strand, indicated the Milford St. service line can provide adequate near-term capacity. However, the sewer main cannot manage increased flows generated from the Loos Development Concept, increased industrial discharge, and more planned neighborhood developments. There are also many portions of the southwest service area currently without sewer service. Therefore, the City needs to expand their system to continue to serve the residents and businesses within the sanitary sewer service area.

The 2002 study prepared by ATI identified a proposed 24" West Interceptor to serve sewer service area expansion. This report, along with an updated capacity analysis and forecasting data, will be used as a basis for this project.

Our Approach to Phase 1

Donohue will work with City staff collaborating and building consensus throughout the project. To foster information sharing, idea exchange, decision-making, and to meet the scope requested in the proposal, we included workshops at major milestones: 1) Kickoff Meeting, 2) Route Analysis, 3) Draft Preliminary Plan Review, and 4) Final Preliminary Plan Review. Following each meeting, we will provide meeting notes to document discussions and decisions. Conceptual planning goals will be developed in the Kickoff Meeting to ensure we are proceeding with the proper understanding of the City's objectives and preferences.



*Identifies workshop milestones

Our technical approach is discussed in the [Scope of Services](#) section that follows. The work completed under Phase 1 would take a southern portion of the proposed West Interceptor from planning through preliminary plans and cost. Once the preliminary plans and costs are presented, the City will determine the next step for the project.

Information Gathering

The first step consists of collecting and reviewing available information on future NW-3, SW-1, SW-2, and SW-3 service areas. This includes obtaining map layers like municipal boundaries, sanitary sewer infrastructure, and contours. Some of this information is likely available on the Watertown Public GIS Viewer. We will also request and review previous reports such as the 2019 Adopted Watertown Comprehensive Plan, ATI and Strand's previous work, utility information, bed rock maps, private well data, and future land use.

During this task, we will begin identifying permitting agencies. Identifying these agencies early in the project will streamline the permitting process in Phase 2. We will also request flow monitoring data and record drawings to assist with the Hydraulic Capacity Analysis task. Reviewing this data is critical to understanding how the system responds during periods of dry and wet weather and finalizing interceptor sizing. Our team will engage the City and Department of Public Works staff on any observations they have witnessed in the proposed interceptor location or other nearby conveyance assets.

Hydraulic Capacity Analysis

The 2002 ATI study recommended a 24" sewer for the West Interceptor. Considering the interval in time since 2002 to present, we added this task to the scope to confirm the proposed pipe diameter by using existing flow data, residential development data, and increased industrial flow projections.

This task is required to define the excess hydraulic capacity for future development but also provide the best value for the City of Watertown Residents. The unit cost to install an 18" (\$734/linear foot) versus a 42" plastic sanitary pipe (\$2,088/linear foot) is nearly a 250% difference (RSMeans, 2022.) While the hydraulic capacity may dictate one pipe size, it is essential to look at how upsizing pipes might unnecessarily redirect more spending to this project. The work completed under the

Hydraulic Capacity Analysis task will provide the best value interceptor sizing for the City.

Donohue will review hydraulic design criteria the City may have as part of this effort. NR 110 provides a foundation and structure for this task as well. Should the project transition to construction, the capacity verification can also be incorporated into the required Amended Facility Plan when the City seeks project funding through the Wisconsin DNR Clean Water Fund Loan program. The results of this phase will supplement the Route Analysis task.

Route Analysis

Donohue will prepare and submit a Route Analysis, including cost estimate, for two or three proposed interceptor routes. The Route Analysis will contemplate various construction methods such as the cost benefit of trenchless versus open cut approaches.

Additionally, the Route Analysis will evaluate several noticeable constraints including, but not limited to the following:

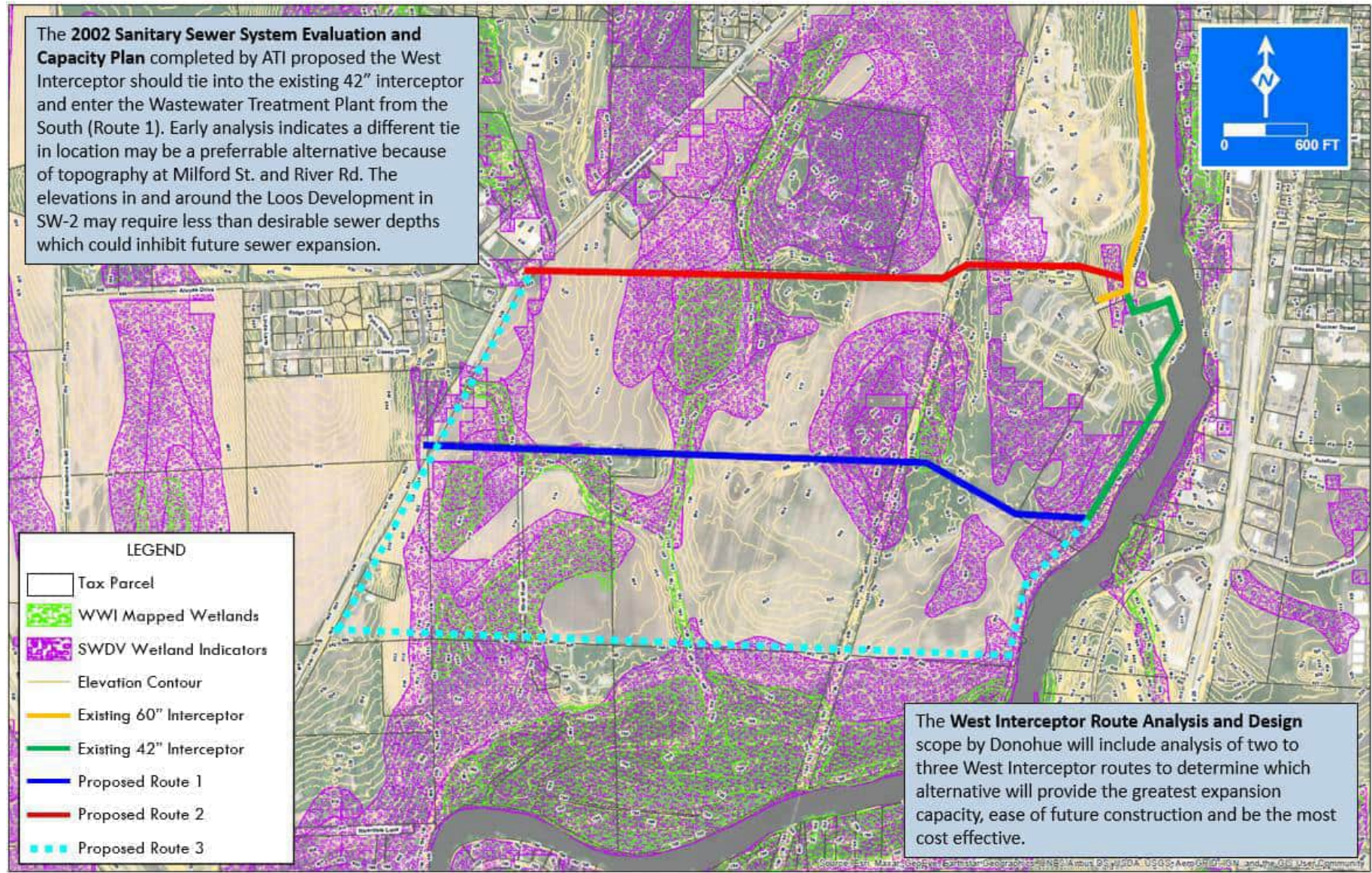
- Bedrock
- Wetlands/Water Features
- Easements
- Railroad Crossing
- Ideal Tie-In Location (North 60" or South 42")

The Route Analysis will plot the specific concerns on base mapping to ensure all known obstructions are identified early in the project. The Route Analysis will be presented to the City during Workshop 2.

Preliminary Plans and Opinion of Probable Construction Costs (OPCC)

A preliminary plan set will be developed from the selected route alternative. This preliminary plan set will present a plan and profile of the proposed interceptor. An OPCC will be developed based on the agreed upon construction method of open cut and/or trenchless technologies. The OPCC will include engineering costs for final design and construction of the selected West Interceptor route. A Draft Final Report will be compiled to document all work completed, and this information will be presented to the City in Workshop 3. Any stakeholder comments collected during Workshop 3 or reviews will be incorporated in a Final Report and preliminary plan set which will be presented to the City in the final workshop, Workshop 4.

The Route Analysis will include consideration of two or three route alternatives. The Route Analysis will contemplate site specific concerns, evaluate future sewer service area expansion, and construction costs, among others.



Scope of Services

Phase 1

The Donohue team will provide the Scope of Services described in the Request for Proposals (RFP). This section describes the major Tasks of the project using language outlined in the RFP and discussions with City Staff. This has been used as a starting point for developing the Scope of Services. Based on Donohue's prior project experience and evaluation of the project, we have added additional tasks that would benefit project success.

Task 1 – Project Work Plan and Kickoff Meeting

1. **Project Kickoff Meeting:** Donohue will conduct a kick-off meeting, [Workshop 1](#), with the City project team. Agenda items for the kickoff meeting include introduction of project personnel and roles; Project plan and information request; Perceived project challenges and obstacles; and other topics of concern. During this meeting, we will verify the study boundaries; NW-3, SW-1, SW-2, and SW-3, and conceptual planning goals. These goals will help guide the remainder of the project and provide a metric of project success.
2. **Project Work Plan:** Donohue will prepare a Project Work Plan for the West Interceptor Route Analysis and Design project. The Work Plan will include a summary of the project, project schedule, project organization chart, communications plan for contact between the City and Donohue, project deliverables, and a QA/QC form. A draft Work Plan will be sent to the City at least 1 week before the Kickoff Meeting.
2. **Project Quality Management:** It is company policy that Quality Reviews be performed on all formal written deliverables. Reviews for quality of project concepts are conducted on an on-going basis throughout the project's duration. Donohue will use our QA/QC form that documents the QA/QC review has been completed prior to each submittal to the City. The QA/QC form will be included with each deliverable and will include the following information:
 - Document title, author, draft # and date
 - QA/QC reviewer and date of QA/QC review with reviewer initials
 - Tracking form verifying Watertown comments have been addressed.

Task 1 Deliverables: Project Work Plan and In-Person Kickoff Meeting, Agenda and Meeting Notes

Task 2 – Information Gathering:

Information requests will be sent to the City in a written Information Request. Donohue will request and review existing studies, plans, flow data from 2023, and record drawings. This information will support Task 3, 4 and 5 analyses.

Base Maps: Request any available base mapping, municipal boundaries, parcels, and contours including topographic survey and subsurface details. It is assumed that the information shown on the Watertown Public GIS Viewer will be made available to the project team for use in updating base mapping.

Environmental & Regulatory Considerations: Identify environmentally sensitive areas and potential wetlands and water features. It is assumed that NRCS soil maps, City/County cadastral, topographic information, wetland inventory maps, and wetlands indicators will be available for use in this project. Wetland delineation may be necessary as part of Phase 2 services and the findings of this task will support development of the scope in Phase 2.

Utility and Property Easements: Identify possible utility conflicts, impacts to residents, possible easement locations, and constructability issues to support the easement acquisition process in Phase 2.

Permitting: Coordination with Union Pacific Railroad, County Highway Department, Department of Transportation and Wisconsin DNR on regulatory and wetland permits. Donohue will begin preliminary conversations with the agencies to support the permitting process, understand the agency expectations, and identify required permits.

Task 2 Deliverables:

- Information Summary
- Updated Base Maps

Task 3 – Hydraulic Capacity:

The team, in coordination with the City, will decide how to calculate the proposed flow from the planned neighborhood development and other undeveloped land in NW-3, SW-1, SW-2, and SW-3. We will review the 2023 Milford St. Capacity Analysis, 2002 Sanitary Sewer System Evaluation and Capacity Assurance Plan, 2019 Adopted Watertown Comprehensive Plan, and zoning.

The expected flows will be calculated based on land use, agreed upon flow generation rates per land type, and peaking factors. The proposed flow from the industrial user will also be validated by the

Donohue Team. Using the agreed upon flow calculations and any conceptual planning goals that were discussed at Workshop 1, a proposed interceptor pipe diameter will be developed. Confirming the proposed interceptor pipe sizing will help to identify minimum clearances required for the utility crossings and the connection to the existing plant. The findings of this task will be presented in the workshop and deliverable in Task 4, Route Analysis.

Based on the scope presented, Donohue will not review hydraulic impacts of the proposed interceptor flow on the existing system or tie-in location. It is assumed that the existing system has enough available capacity to accommodate the proposed flow.

Task 3 Deliverables: Hydraulic Capacity Analysis to be included with Task 4 Deliverables

Task 4 – Route Analysis

Donohue will plot constraints and conflicts based on the information collected in Task 2. The major anticipated constraints are DNR wetland locations, water features, railroad crossing, surface elevation, and available right-of-way. Once the project constraints are mapped, identifying potential routes will be straightforward. We assume the proposed interceptor will tie-in to the existing system at a structure along the 42" or 60" sanitary sewer that discharges to the Wastewater Treatment Plant.

The Donohue team will develop two or three alternatives and costs for each route. For the routes identified, the analysis will consider sewer depth, related construction methods (open cut vs. trenchless), environmental impacts (wetlands and water features), potential utility conflicts, and required acquisition of easements. Sufficient detail will be included to verify the recommendation represents a constructible alternative.

Each route will be scored in a weighted scoring matrix. The matrix will include criterion such as conceptual planning goals, environmental impacts, cost, constructability, sewer depth and gravity conveyance, easement acquisitions, and any other criterion the City or Donohue may have identified. Each criterion will receive a weight based on the level of importance to the project. The higher the weight, the more influence that criterion has on the overall route selection. The

highest score will be selected and reviewed with the City.

This information and the findings of Task 2, 3 & 4 will be outlined in the Route Analysis Memorandum and presented in [Workshop 2](#).

Task 4 Deliverables:

- Hydraulic Capacity Analysis Findings
- Summary of Available Alternatives Mapping
- Route Analysis Technical Memorandum
- Route Analysis Workshop

Task 5 – Preliminary Plans and OPCC

The preliminary design will include plan and profile drawings. Specific tasks include:

- Prepare plan and profile drawings for the interceptor.
 - Drawing set will include cover sheet, legend, general notes, overall alignment location reference, and plan and profile sheets. Traffic control, erosion control, and general standard details will be included in the Phase 2 Final Design effort.
 - Project drawings will be printable on 11"x17" paper. The plan and profile sections will be aligned vertically. The drawings will show existing utilities and the proposed interceptor.
- Prepare an OPCC based on preliminary design information.
- Prepare a Draft Final Report. This report will document all work completed on the project including preliminary flow control strategy and proposed construction project schedule. The technical memorandum developed in Task 4 will be an appendix to the report.
- Present Draft Report, Preliminary Design Plan Review, and OPCC to City staff in [Workshop 3](#).
- Integrate final City comments and present the Final Report to the City in [Workshop 4](#).

Task 5 Deliverables:

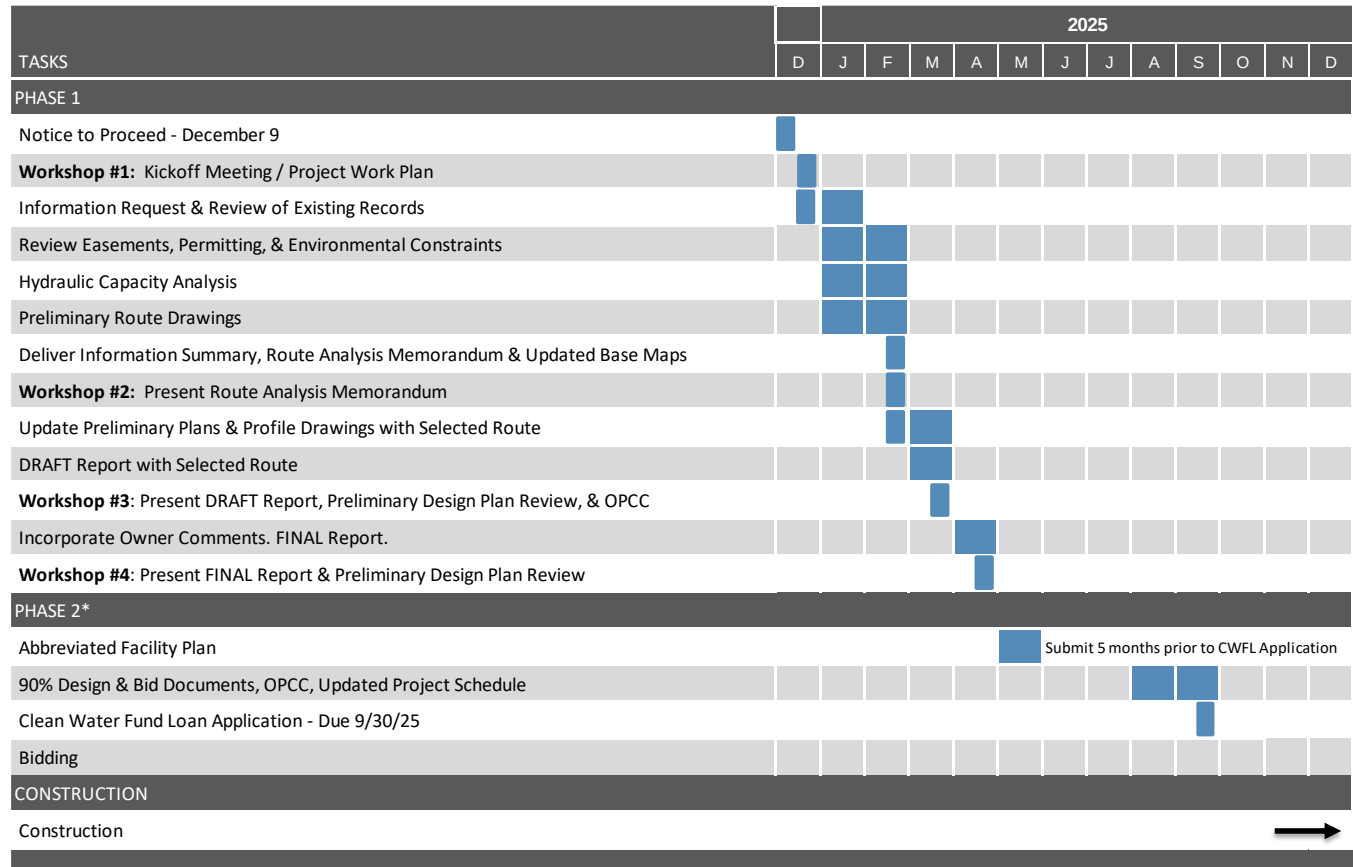
- Opinion of Probable Construction Costs
- Preliminary Design
- Final Report

Schedule

Schedule

We have developed this schedule based on the RFP and our understanding of the project, our proposed approach, and our experience delivering similar projects. We will work with the City to refine dates upon project selection. The Donohue Team is available and committed to your Project.

City of Watertown, WI
West Interceptor Route Analysis and Design
Proposed Project Schedule | Donohue & Associates, Inc.



* A more detailed Phase 2 schedule will be developed upon determination of whether the project will proceed to Phase 2.

Work Plan/Level of Effort

Work Plan/Level of Effort

City of Watertown, WI
West Interceptor Route Analysis and Design
Fee Estimate Summary | Donohue & Associates, Inc.

Task	Project Manager Holzwart \$ 195	QA/QC Tech Support Kimmner \$ 195	Lead Engineer Hess \$ 210	Project Engineer Grunwald \$ 160	Eng I Winter \$ 140	Client Advocate Fisher \$ 210	Total Hours	Total Labor	Travel	Total Cost
1 Project Work Plan & Kickoff Meeting										\$ 5,202
Prepare Project Work Plan	6						6	\$ 1,170		\$ 1,170
Workshop #1 Kickoff Meeting	6		4			4	14	\$ 2,850	\$ 402	\$ 3,252
Prepare Invoices, Progress Reports, & Schedule	4						4	\$ 780		\$ 780
2 Information Gathering										\$ 11,658
Information Request & Review	2		2	7			11	\$ 1,930		\$ 1,930
Evaluate Topographic / Subsurface Details & Project Concerns / Considerations	2		2	10			14	\$ 2,410		\$ 2,410
Review Existing & Required Easements with Permitting Agencies	2		5	10			17	\$ 3,040	\$ 188	\$ 3,228
Information Summary & Updated Base Maps	2		10	10			22	\$ 4,090		\$ 4,090
3 Hydraulic Capacity Analysis										\$ 3,970
Capacity Analysis for Proposed Interceptor		10	2	10			22	\$ 3,970		\$ 3,970
4 Route Analysis										\$ 22,760
Review / Evaluate Design Assumptions	2		2	5			9	\$ 1,610		\$ 1,610
Evaluate Two to Three Alternatives Including Mapping & Evaluation Matrix	2		5	20			27	\$ 4,640		\$ 4,640
Constructability & Implementation Review	2	2	5	5			14	\$ 2,630		\$ 2,630
Cost Opinions of Alternatives	2	2	5	10			19	\$ 3,430		\$ 3,430
Route Analysis Technical Memorandum	2	2	25	5			34	\$ 6,830		\$ 6,830
Workshop #2 Route Analysis Presentation & Route Selection	4		8	2		4	18	\$ 3,620		\$ 3,620
5 Preliminary Plans & Opinion of Probable Construction Costs (OPCC)										\$ 42,365
Preliminary Flow Control Strategy	2			5			7	\$ 1,190		\$ 1,190
Proposed Project Schedule	2		5				7	\$ 1,440		\$ 1,440
Preliminary Plans & Profile Drawings	5	5	20	30	80		140	\$ 22,150		\$ 22,150
OPCC	2	2		5	5		14	\$ 2,280		\$ 2,280
DRAFT Report	2	3	25	5			35	\$ 7,025		\$ 7,025
Workshop #3 Present DRAFT Report, Preliminary Design Plan Review, & OPCC	4		8	2		4	18	\$ 3,620	\$ 402	\$ 4,022
Incorporate Owner Comments. FINAL Report.			3	3	3		9	\$ 1,530		\$ 1,530
Workshop #4 Present FINAL Report & Preliminary Design Plan Review	4		8				12	\$ 2,460	\$ 268	\$ 2,728
Total	59	26	144	144	88	12	473	\$ 84,695	\$ 1,260	\$ 85,955
Total Labor Dollars by Category	\$ 11,505	\$ 5,070	\$ 30,240	\$ 23,040	\$ 12,320	\$ 2,520				



Wisconsin Sheboygan, Appleton, Milwaukee
Indiana Indianapolis, Fort Wayne, South Bend
Michigan Grand Rapids
Illinois Champaign, Chicago, Naperville
Minnesota Minneapolis
Missouri St. Louis