

#### PUBLIC WORKS COMMISSION MEETING - AMENDED AGENDA

#### TUESDAY, OCTOBER 08, 2024 AT 5:30 PM

#### COUNCIL CHAMBERS, SECOND FLOOR, MUNICIPAL BUILDING - 106 JONES STREET, WATERTOWN, WI 53094

Virtual Meeting Info: https://us06web.zoom.us/join Meeting ID: 225 151 7335 Passcode: 589577 One tap mobile +16469313860

https://us06web.zoom.us/j/9178580897?pwd=eUOpCUyvIV65zIPMYImMdPU1LVLx5I.1

All public participants' phones will be muted during the meeting except during the public comment period.

#### 1. CALL TO ORDER

#### 2. COMMENTS AND SUGGESTIONS FROM CITIZENS PRESENT

Each individual who would like to address the Committee will be permitted up to three minutes for their comments

#### 3. REVIEW AND APPROVE MINUTES

A. Public Works minutes from September 24, 2024

#### 4. **BUSINESS**

- A. Review and take action: Request to Remove Garbage/Recycling Charges at 201 S. Montgomery Street
- B. Review and take possible action: Award 2028 Main Street Water & Sanitary Sewer Design Project to Robert E. Lee & Associates, Inc for \$57,200
- C. Review and take action: Approval of Change Order No. 3 for #13-24 Yard Waste Site Biofilter Construction: CJP Excavating LLC for \$16,260.72
- D. Review and take action: Approval of Change Order No. 2 for #5-24 2024 Storm System Cleaning and Televising: New Restoration and Recovery Services, LLC dba Aqualis for \$14,311.01
- E. Review and take possible action: Sidewalk repair order for 200. S. Third Street
- E. Review and take action: Additional 2024 Street Resurfacing
- G. Review and take action: Change Order No. 2 with Payne and Dolan, Inc. for \$52,588.50
- H. Review and take possible action: Presentation by Ehlers & Associates 2024 Water Rate Study progress and summary of phase 1 findings
- L. Review and take possible action: Fire Department construction essential equipment quotes for new Fire Station

#### 5. ADJOURNMENT

Persons requiring other reasonable accommodations for any of the above meetings, may contact the office of the City Clerk at <a href="mailto:mdunneisen@CityofWatertown.org">mdunneisen@CityofWatertown.org</a>, phone 920-262-4006

A quorum of any City of Watertown Council, Committee, Board, Commission, or other body, may be present at this meeting for observing and gathering of information only

### City of Watertown Public Works Commission Meeting September 24, 2024

#### Agenda

1. Call to Order by Alder Board at 5:30 PM. Alders Bartz, Wetzel, and Board, and Commissioner Thompson present.

Also present were Andrew Beyer, Public Works Director; Peter Hartz, Water Systems Manager; citizens Robert and Sarah Stocks; Jon Butt of Mead-Hunt; unidentified caller and "Ryan" by ZOOM.

- 2. Comments and Suggestions from Citizens Present
  - A. None received.
- 3. Review and Approve Minutes
  - A. Public Works Commission minutes from August 27, 2024
    - i. Motion by Bartz, supported by Thompson, to approve minutes as corrected. Motion carried unanimously.
  - B. Public Works Commission minutes from September 10, 2024
    - i. Motion by Thompson, supported by Wetzel, to approve minutes as corrected. Motion carried unanimously.
- 4. Business
  - A. Review and take possible action: 2024 Biosolids Dryer Project update & presentation by Mead-Hunt.

Peter Hartz, Water Systems Manager, presented an update on the Biosolids Dryer project and introduced Jon Butt, Project Manager for Mead & Hunt. Mr. Butt presented the findings of his firm regarding sludge drying at the Water Systems facility.

Mr. Hunt reviewed four options: a Typical Dryer; an All-Electric Option; a Bio Dryer; and Super Critical Water Operation. The recommendation of Mead & Hunt was the single Electric Dryer with a planning budget of \$10 million.

Motion by Board, supported by Bartz, to accept the recommendation of Mead Hunt for a single All Electric Dryer and that the Water Systems Manager pursue a contract proposal for engineering and project management for the project.

Passed unanimously

B. Review and take action: Approve license agreement between city of Watertown and Verizon Wireless for equipment located on the O'Connell Water Tower (Cellular site MDG ID 5000097398).

Motion by Thompson, supported by Wetzel, to approve the license agreement between the city of Watertown and Verizon Wireless for equipment located on the O'Connell Water Tower (Cellular site MDG ID 500097398), and that a resolution be forwarded to the city council. Approved unanimously.

C. Review and take action: Approve planned service agreement from Johnson Controls for the water and wastewater HVAC computerized control system.

Motion by Wetzel, supported by Thompson to approve the planned service agreement from Johnson Controls for the water and wastewater HVAC computerized control system. Approved unanimously.

D. Review and take possible action: Award Rock River Ridge Phase I Construction Inspection Contract.

Motion by Thompson, supported by Bartz, to award the Rock River Phase 1 Construction Inspection Contract to Ruekert Mielke in the amount of \$43,654. Approved unanimously.

- 5. Adjournment
  - A. Motion by Bartz, seconded by Wetzel to adjourn. Motion carried unanimously.

Meeting closed at 6:43 PM.

Respectfully submitted by Steve Board, chair.

## 

# MEMO

## DPW – Street/Solid Waste Division

To: Alderperson Board and Commission Members

From: Stacy Winkelman

Date: October 1, 2024

Subject: Garbage/Recycling Charges Removal Request

## Background

St. Bernard's Church owns the property at 201 S. Montgomery and is asking that we remove the monthly charge of \$14.08 per month from their utility bill as they do not use the City pickup service. They use their private dumpster service that is provided to the church.

## **Budget** Goal

Revenue Account #17-40-17-01 receives \$14.08/month = \$168.96/year for collection services.

## **Financial Impact**

Revenue account will not receive \$168.96 annually for collection services.

## Recommendation

Since the solid waste and recycling crew is not making weekly stops at this address, thus saving time and material costs, I am not opposed to removing the charges.

## 2024 Operational Goals

- 1. Proactively maintains and improves our parks and infrastructure in an effort to ensure quality, safety and compliance
- 2. Supports employee retention and growth, and also works to address critical staffing areas
- 3. Invests in the assessment, strategic planning and maintenance of our city buildings
- 4. Promotes and fosters innovative approaches for community development and growth
- 5. Maintains a safe and healthy community, and expands community education on safety and health

1

#### **Stacy Winkelman**

From: Sent: To: Subject: Jeanne Wolf <jwolf@watertowncatholic.org> Monday, September 23, 2024 12:07 PM Stacy Winkelman Garbage Charge Removal

Hi Stacy,

Thank you for talking with me this morning.

St Bernard's owns the property located at 201 S. Montgomery Street. We do not utilize the city garbage and recycle collection. We utilize our property dumpsters. If possible, we would like this \$14,08 monthly garbage collection fee removed from our water bill.

Thank you,

Jeanne Wolf

---

Jeanne Wolf Director of Operations St. Therese of Lisieux Pastorate 114 S. Church Street Watertown, WI 53094 920-261-7273

# MEMO

## Engineering Division of the Public Works Department

To: Alderperson Board and Commission Members

From: Andrew M. Beyer, P.E.

Date: October 3, 2024

Subject: Public Works Commission Meeting of October 8, 2024

## Background

Review and take possible action: Award 2028 Main Street Water & Sanitary Sewer Design Project to Robert E. Lee & Associates, Inc for \$57,200

The Public Works Department is seeking approval to award design of the City of Watertown's Water Main, Sanitary Sewer, and Water & Sanitary Sewer Later Replacement for 2028 WisDOT Main Street Project to Robert E. Lee & Associates for \$57,200.00.

The Public Works Department prepared a request for proposals for the above-mentioned project in August. Proposals were due September 13<sup>th</sup>. Ten Proposals were received. The Public Works Department review team conducted interviews with the top five ranked firms. Robert E. Lee & Associates ranked highest among ranked firms.

WisDOT is requiring the City to have 60% preliminary water and/or sanitary sewer improvement plans and specifications submitted to them by April 1, 2025.

The following accounts will be used to fund the design project:

Water Capital Account: 03-99-99-99 Wastewater Sewer Rehab Account: 02-97-30-11

## **Budget Goal**

- 1. Proactively maintains and improves our parks and infrastructure in an effort to ensure quality, safety and compliance
- 4. Promotes and fosters innovative approaches for community development and growth





## **Financial Impact**

Funding for this project comes from: Water Capital Account: 03-99-99-99 Wastewater Sewer Rehab Account: 02-97-30-11

## Recommendation

Approve awarding the 2028 Main Street Water & Sanitary Sewer Design Project to Robert E. Lee & Associates for \$57,200.00.

#### 2024 Operational Goals

- 1. Proactively maintains and improves our parks and infrastructure in an effort to ensure quality, safety and compliance
- 4. Promotes and fosters innovative approaches for community development and growth

Enclosed: Robert E. Lee & Associates Proposal

Proposal to Provide

Engineering Services for the 2028 WisDOT Main Street Project

> Prepared for City of Watertown, WI September 13, 2024

Ryan Trzinski, P.E. Robert E. Lee & Associates, Inc. 1250 Centennial Centre Blvd Hobart, WI 54155 920-662-9641 info@releeinc.com releeinc.com





September 13, 2024

Mr. Andrew Beyer, P.E., Director of Public Works/City Engineer CITY OF WATERTOWN 106 Jones Street Watertown, WI 53094

RE: Professional Engineering Services for 2028 WisDOT Main Street Water and Sewer Project

Dear Mr. Beyer:

Robert E. Lee & Associates, Inc. (REL) appreciates the opportunity to submit our response to the City of Watertown's request for this water main and water & sanitary sewer lateral replacement project, associated with the 2028 WisDOT Main Street project. We are excited about the opportunity to continue working with the City on this important utility improvement project, leading up to the street improvement project. We are familiar with the project area, having recently provided a similar engineering design scope of work for the City on Main St between Water and First St in 2023.

Founded over 65 years ago in Green Bay by Bob Lee, REL has grown into a multi-disciplinary firm with more than 50 employees. We have a long-standing history of delivering successful projects across Wisconsin, providing engineering, surveying, environmental, and GIS data management services. Our team's collaborative approach allows us to efficiently and competitively serve local, state, and private entities throughout Wisconsin and Upper Michigan. We have been proudly supporting the City with Engineering Designs since 2012, including connecting streets within the corridor of this project.

Our project team, led by Ryan Trzinski, PE, brings more than 17 years of engineering design and construction background, which he will rely on to facilitate the project and assist in the detailed design, permitting, and coordination of this project. Ryan will be supported by the full staff at REL, which features specialists in water main design, along with WisDOT design experts. This blend of talent will allow REL to efficiently facilitate the design component of the project, while seamlessly coordinating with the DOT at various design stages to integrate our utility design with their street improvements. The following response details our project approach, highlighting our firm understanding of the scope and deliverables executed by our highly professional staff, and demonstrating our ability by showcasing past like projects, including direct experience working with the City.

REL welcomes the possibility of further discussing our qualifications for this project. If you have any questions or comments, please call 920 662-9641.

Sincerely,

ROBERT E. LEE & ASSOCIATES, INC.

Ryan H. Trzinski, P.E. Construction Services Manager

Járed G. Schmidt, P.E., V.P. Civil/Municipal Engineering Manager

## **Firm Information**



## Introduction

Established in 1956, Robert E. Lee & Associates (REL) is a premier consulting firm specializing in civil and environmental engineering, surveying, and natural resources services. Our comprehensive spectrum of services offers an integrated approach to project management for our clients throughout Wisconsin and surrounding states. Renowned for our responsiveness and client-focused expertise, our mission is to be a quality first service company dedicated to building enduring relationships.

## **Quality Service Since 1956**

REL's philosophy is a **quality first** service company dedicated to fostering long-term relationships with our clients. At REL, we take pride in our can-do attitude ensuring our customers' requests are not just met but exceeded. Our overarching goal is to establish ourselves as the firm that consistently satisfies our clients by delivering quality products in a timely manner.

We achieve these objectives by attracting and retaining hardworking, highly skilled professionals. As a company, we invest in new technology and education to provide our clients with the highest quality results and to continually challenge our employees. We see ourselves as partners with our clients, the community, and the environment. We firmly believe that through this philosophy, our company will steadily expand but thrive, driven by our commitment to excellence.

## **Major Disciplines Provided**

- Surveying Municipal Engineering Utility Design Transportation Engineering Permitting Soils Investigation GIS / Asset Management
- Environmental Engineering Ecological Services Water/Wastewater Engineering Utility Operations Funding Native Habitat Design / Maintenance Storm Water Management / Floodplain

releeinc.com | 920-662-9641 1250 Centennial Centre Blvd Hobart, WI 54155



Serving you from Northeast and Central Wisconsin

## About Us. Why REL?

Robert E. Lee & Associates, Inc. is a locally owned, full-service consulting firm, specializing in civil engineering, environmental engineering, surveying, and natural resources services.

We have an excellent reputation for supplying very responsive and client-focused expertise at a tremendous value. Our mission is to be a quality-first service company dedicated to long-term relationships with our clients. REL's success in serving municipal clients is largely due to our strong employee retention. Over 30% of our staff have been with REL for more than 20 years, and nearly 50% for over 10 years. This longevity enables our team to build deep institutional knowledge and provide consistent, high-quality service to the communities we serve.

## Our Aim. **Our Mission**



#### Quality

All deliverables undergo rigorous internal reviews for constructability, drafting, and design, followed by a final QA/QC review.



#### Availability

Our team is available to meet the April 1, 2025 60% plan delivery, followed by the final June 1st plan completion date.



#### Communication

At REL we prioritize clear and consistent client communication so that this project aligns with the City's expectations and goals.



#### Dependable

Through strategic project team selections, Watertown will have direct access to key team members, for dependable support throughout the project.

### **Our Team**

Municipal engineering is the core of REL's services. Therefore, implementing municipal infrastructure is our expertise. We are ready to be a dedicated resource to the City for the water main and water and sanitary sewer lateral replacement project.

## **Our certified** professionals offer specialized knowledge and expertise...

### Project Lead

Ryan Trzinski, P.E. has been directly responsible for design, permitting, and facilitating City of Watertown projects since 2012, providing tremendous institutional knowledge to the City. His construction background provides great depth of knowledge to constructibility of design plans. He puts added effort to project coordination to ensure cooperation across all entities.

#### Transportation Engineer

Eric Handler, P.E. has 17 years of transportation engineering experience designing urban and rural reconstruction projects, as well as complex construction staging and traffic control plans. He has a strong understanding of WisDOT, which will provide great value in coordinating between the water main design and the WisDOT road project.

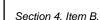
### **Utility Coordinator**

Gayle Lindenberg specializes in utility coordination, and brings extensive knowledge from her role as a consultant for the Northeast Region DOT office. Her expertise is vital for our design projects, especially with the increased emphasis on utility coordination following the 2023 Wisconsin Act 46.



Engineering | Environme

Surveying | Ecological



## Project Understanding, Scope & Approach

#### PROJECT UNDERSTANDING

The City of Watertown is seeking a consultant to complete professional engineering services associated with the watermain and sanitary replacement for the 2028 WisDOT Main Street Project. REL will provide the scope of service as identified in the original August 1, 2024 RFP and subsequent addenda (3).

#### SCOPE

#### **Kick-off and Survey Investigations**

REL will initiate the project with a Project Scoping Meeting in the City of Watertown with City staff to discuss the project in details and exchange information. The site topographic survey process will begin soon after being given the notice to proceed, including notifying Diggers Hotline for utility locates. It is our understanding this survey will be a supplement to WisDOT's topographic survey. Our team will collect additional field data along side streets to assist in defining the appropriate utility match points and preform as-builts on the sanitary sewer manholes. We will utilize robotic survey equipment, which will reduce project costs and expedite the process by minimizing personnel and time required for the topographic survey.

#### WisDOT Utility Work Plan and Concept Plan

After the topographic survey is provided by WisDOT and supplemented with REL's field collected data, REL will begin working on a concept plan that maps existing infrastructure and proposes the layout for the sanitary sewer, water main, and associated items. During concept plan development, the WisDOT storm sewer and roadway project will be front and center. Utility conflicts will be avoided, when possible, and when not avoidable, the impact will be minimized. We will progress through concept and preliminary plans, which will be ready for review by Watertown and WisDOT staff by April 1, 2025, which coincides with a 60% deliverable. We would anticipate progress meetings in advance of this April 1 date to ensure City staff is comfortable with the progress of utility plans, and they align with the goals and objective of the corridor.

#### **Preliminary Plan and Permitting**

REL's team will progress towards preliminary design phase including plans, specifications and estimates. At this stage REL will engage with permitting agencies in preparation for DNR, DOT, or other applicable agency permitting. Permits will be submitted towards the end of the preliminary phase in order to allow the proper turnaround time for the review agencies. Prior to progressing to final plan and bid package a site walk thru with the plan will be facilitated with the City.

During the design development of the plans we will utilize multiple layer states to color code our utility lines, which helps in identifying the specific design elements. We will spend additional time reviewing survey data, cross-referencing historic plans provided by the City, GIS digital records, and CCTV reports to help best ensure a comprehensive design, accounting for known untilities and



## **Project Understanding, Scope & Approach**

utility connections. Aged sections of communities can have incomplete data records, and we find by thoroughly reviewing available data and conducting a through plan in hand site review, give the City confidence in a complete design. As appropriate, we will work with the City on the private side utility laterals, noting upgrades that may be required, or targeting the removal of lead service lines.

#### Final Plan & Bid Package

As preliminary design phase is completed, our work will continue towards final bid plans, bidding specifications, supporting the States bid process, and estimates, for delivery June 1, 2025 to the City and WisDOT. Throughout this process we will continue to coordinate with the WisDOT and their design to coordinate design efforts, and ensure our plan aligns with their plan and design intent. We will coordinate with other utility companies during the project to help ensure our work plan does not negatively impact their systems, or that their relocation of their systems is accounted for. This is more critical for design areas that may fall outside of the WisDOT footprint, for utility connections.

#### APPROACH

At REL, our passion is serving our clients, and working closely with them to help solve the daily challenges that may face any community. Our philosophy is carried out by our personalized service, molded to best fit each client. We find it critical to listen to the needs of each client and utilize our vast experience to help design, advise, or present a variety of possible innovative solutions/ resolutions. From there, we work with City staff and associated stakeholders to move a project forward. Our personal service is utilized to work with adjacent property owners that may be affected by this project and strive to ensure environmental and personal concerns as practical are addressed during our design process.

We deliver projects on time and on budget, which is a critical focus for our engineering firm. We strive to provide quality estimates and practical schedules, as part of a quality product, to build trust and sustainability with our clients. Our clients depend on the cost estimates and schedules we provide for budgeting purposes. Projects are not without budget and schedule changes; thus, we make continual communication a key aspect of our customer service practices. If changes occur, we pride ourselves in communicating often with our clients and working towards a project solution.

Our team focuses on timely responses, responding to calls and emails as soon as possible, knowing that many needs are time sensitive. In many instances, we find that our use of technology, management practices, and design efficiency allows REL to best serve our clients to find and implement innovative and cost-effective solutions. We can teleconference and screen share to save the need to meet in-person and communicate quickly for certain aspects of a project. We still feel that face-to-face meetings and direct conversations are invaluable; however, utilizing other methods, as needed, to keep our overall costs down.



## Project Understanding, Scope & Approach

We pride ourselves in communicating often with our clients and working towards common goals. Because of this philosophy, REL has built trust with clients that have spanned multiple long-term project managers. We have many clients who have been with us since Bob Lee founded REL in 1956. This is a testament to our commitment and pride to quality engineering, from top to bottom.

#### CLOSING

REL has a rich history of collaborating closely with various stakeholders on a multitude of engineering projects, boasting extensive experience in addressing the high expectations of our partners. We have successfully delivered projects with a close resemblance to the undertaking the City of Watertown is requesting. We also have extensive experience delivering projects for the City of Watertown over the years, understanding the desires and high expectations for preparing high quality and comprehensive engineering plans. Our accomplished team, as evidenced by our vast project experience, offers valuable engineering services, leading to a successful project execution. Our project Team and project examples can be found on the following pages.

We take pride in our comprehensive expertise across relevant disciplines, making REL an ideal candidate to partner with the City for this project. We eagerly anticipate the opportunity to collaborate with the City on this endeavor, and welcome the opportunity to present our qualification to your RFP review team.





## Meet your Lead Design Team

Our Project Management Approach is built on maintaining a personal partnership with each client. Our team aims to work as an extension of the City of Watertown and your staff to ensure a successful project.

Ryan Trzinski, P.E. is a crucial part of monitoring your project; leading and coordinating the team, and communicating with you. Ryan Trzinski, P.E. and Eric Handler, P.E. will head the design efforts. Jared Schmidt, P.E., V.P. will ensure quality control and assurance. Jennifer Liimatta, P.E., Brandon Robaidek, P.E., Michael Leidig, EIT, and Jocelyn Meissner will assist with design, reports, plans, specifications, and permitting. Gayle Lindenberg, P.E. will manage utility coordination, a. Scott DeBaker, PLS, will lead the field and office surveys.

Our team is committed to delivering high-quality projects on schedule. Resumes of our lead staff are provided in the following pages.





## **Ryan Trzinski**, P.E. Construction Services Manager

### University of Wisconsin Platteville

Bachelor of Science, Civil Engineering, 2007 **Professional Engineer** Wisconsin, Michigan

#### **Experience and Expertise**

Ryan's versatile experience in municipal and highway transportation construction and design, showcases his versatility and expertise across multiple disciplines. With a proven construction background, he is able to complete constructibility reviews, assist as a design engineer, and offer insight into construction staging/traffic control approach to produce cost effective solutions to design complexity's.

- Complex Traffic Staging
- Rural Roadway Design
- Urban Roadway Design
- Safety Improvement projects
- Pavement Design

#### Main Street Water Utility - Watertown

Ryan led the design engineering for the W Main Street water utility relocation between N Water and 1st Street in anticipation for bridge and approach reconstruction over the Rock River.

- Field Survey
- Utility Coordination
- Water Main / Lateral Design
- Bidding Support

- Utility Design
- Federal, State, and Local Agency Permitting
- Recreational Trail Design
- Certified Bridge Inspector
- Construction Project Engineer/Leader

#### **North Fourth Street**

Ryan led the design engineering for North Fourth Street, resurfacing project, a 0.5-mile urban resurfacing project that included milling existing concrete pavement, placing a pavement geotextile interlayer and overlaying with HMA.

- Staging accommodations for hospital route
- Public Involvement
- Multi-Project Coordination
- Expedited BIL Funded schedule.

#### **Role & Responsibilities**

Ryan has a key design role utilizing his design and construction experience to develop proposed design packages in accordance with local and state requirements. Serving as a design engineer, QA/QC constructibility reviewer, Ryan will provide quality constructible design plans, design reporting, and PS&E documents.

Ryan's extensive background in both construction and design brings a valuable blend of skills to the team, enabling him to contribute significantly to the development of constructible utility design plans and efficient staging strategies. His expertise will not only support other design staff but also involve analyzing project staging to devise cost-effective plans that align with project goals. By leveraging his diverse experience, Ryan is well-positioned to deliver projects that not only meet quality standards but also remain within budgetary constraints, ultimately benefiting the City by ensuring the successful and cost-efficient completion of projects.





## Jared Schmidt, P.E., V.P. Civil Engineering Manager

Marquette University Bachelor of Science, Civil Engineering, 2003 Professional Engineer Wisconsin

#### **Experience and Expertise**

Jared's extensive 21-year career has honed his expertise in designing and constructing transportation facilities, ranging from local streets to major state highways. His proficiency in implementing comprehensive designs and overseeing complex multi-year projects makes him a valuable asset in providing design, project management, and mentorship crucial for project completion. Furthermore, Jared's meticulous attention to detail and receptiveness to client needs add value to every project and contribute to their overall success. His proven track record in the transportation sector underscores his capability to deliver quality results and drive REL's project achievements.

- Rural and Urban Roadway Design
- Innovative Storm Water Design
- Utility Design and Permitting

#### Mill Road Reconstruction

Jared helped facilitate the comprehensive design, permitting, and construction services for the reconstruction of Mill Road, in the busy downtown tourist district of Sister Bay. The project included utility reconstruction and reconfiguration to benefit the traveling public and improve pedestrian accommodations in the area.

- Roadway Modernization / Intersection Improvements
- Off street Pedestrian Accommodations / Drainage Design
- Utility Design and Coordination and Construction Services

- Resource Manager
- Technical Code Review Specialist
- Quality Control / Quality Assurance

#### Wisconsin Ave - STH 96

Jared's leadership was instrumental in overseeing REL's team in the successful plan development and construction of enhancements. This concrete improvement project included adding a fourth leg to the Westhill Blvd Intersection to facilitate the redevelopment of the former industrial site north of Highway 96, while also mitigating conflicts arising from the on/off ramps to the west.

- Intersection/Signal Design/Added Pedestrian Accommodations
- Median closure / Accel/Decel Lanes / Waterway Crossing

### **Role & Responsibilities**

Jared plays an integral role with REL, aiding in the design development and execution of each project. As an REL principal, he closely monitors each projects progress and is available to provide direct input to design considerations, coordination with client contact and public input, and be personally involved in project review. As REL's lead resource manager, Jared has the ability to manage staff work loads, adjusting priorities to ensure project deadlines are met, and budgets are being appropriately managed. His attention to detail, and extensive and diverse past project history allows for a complete Quality Assurance and Quality Control review. With his review process involvement at 30/60/90 percent plan completion, critical decision making is confirmed at early stages of a design, leading to a streamlined project development process.

The design development process REL institutes helps ensure each project is evaluated for completeness, that cost effective and innovative design considerations are being made with each design decision, and that the whole project process will be managed to meet or exceed deadlines and client expectations.

jschmidt@releeinc.com | 920-662-9641 | releeinc.com





## **Gayle Lindenberg**, P.E. Civil Senior Project Manager

## Michigan Technological University

Bachelor of Science, Civil Engineering, 1998 Professional Engineer Wisconsin

### **Experience and Expertise**

Gayle's impressive 26 years of experience in civil engineering, especially in municipal projects and utility coordination, highlight her expertise as a lead design engineer and project manager. Her involvement in a wide range of roadway projects across different settings showcases her versatility in handling various challenges. In addition to her extensive engineering background, she regularly assists clients with their funding agency applications and administration. She connects the engineering needs of your project with the funding requirements in order to complete agency paperwork efficiently.

- Urban & Rural Roadway Design
- Sanitary and Water Main Design

- Utility Coordination, including Trans 220 process
- Funding Applications and Administration



## **Jennifer Liimatta**, P.E. Project Manager

## Michigan Technological University

Bachelor of Science Civil Engineering, 2013 Professional Engineer Wisconsin

### **Experience and Expertise**

Jennifer is a seasoned municipal engineer with a career spanning more than a decade. She excels in the design of both urban and rural roadways, sanitary sewer, water main, and storm sewer facilities. With a sharp attention to detail and a comprehensive understanding of project impacts, she brings invaluable expertise to her role.

- Rural and Urban Roadway Design
- Sanitary Sewer and Water Main Design
- Storm Sewer Design

- Agency Permitting
- Plan and Specification Preparation
- Bidding





## **Annual Utility and Street Projects Utility Reconstruction**

The City of Watertown has worked with REL to prepare engineering plans for utility and street reconstruction projects dating back to 2012. For both urban and rural sections within the City limits.

Project Owner: City of Watertown

#### **Services Provided**

- Project scoping meeting
- Topographic survey
- Preliminary design
- Utility coordination
- Public involvement
- Pavement designs
- Storm water design
- Soil borings
- Right-of-way documents
- Bicycle and pedestrian accommodation designs,
- Final plan designs, estimate, specifications, and bid letting packages

### Support

- REL provides personalized service, molded to best fit each client. The same REL project managers and designers have been working with the City since the initial project, with various REL support staff providing assistance to each yearly project to best support each unique project.
- By providing continuity of project managers over the years, it gives the City an added confidence that the project team will successfully execute the design development and plan production process.

#### Innovations

- Robotic survey equipment reduced manpower and time to complete construction staking and surveys.
- Developed a work flow providing a seamless and time saving approach to project design.
- Plans are drafted in different layer states to allow for creation of multiple plan sets from the same drawings.
- Pavement designs are utilized to ensure the proposed pavement structure is sufficient for the proposed loading and provides the most sustainable pavement and costeffective option.
- Pulverized pavement for base material reduces costs.

#### **Key Contributors**

- Ryan Trzinski, P.E. Project Manager/Design Lead
- Jared Schmidt, P.E., V.P. QA/QC
- Aaron Breitenfeldt, P.E.
- Jim Westerman, PLS Lead Surveyor
- Laura Pavelski Lead Draftsperson

### Abbreviated City Project List

• Main St, Water to 1st, Dewey Ave, Welsh Rd HSIP, 4th St, Dayton St, William St, Hart St, 3rd St, Parkview Ln, Dakota St, Milford St, Fremont St, Kansas St, etc.

> **Project Staff** Ryan Trzinski, P.E. **Project Manager** rtrzinski@releeinc.com 920-662-9641 releeinc.com

Er Engineering Surveying | Ecological

Environme 19

## **3rd Street** Utility and Street Reconstruction

City of Algoma



Project Owner: City of Algoma | Reference: Matt Murphy, Administrator, (920) 487-2391

### **Project Details**

The City of Algoma retained REL to prepare plans for Third Street utility and street reconstruction project.

- Sanitary Sewer
- Water Main
- Storm Sewer Replacement
- Street Construction with New Base Course and Asphalt Pavement
- Curb & Gutter
- Sidewalk

## **Project Highlights**

- Managing a design and construction project in a well established part of the City presents design challenges related to historic record keeping and documentation.
- REL prepared a comprehensive design plan vetting historic data to create a complete design. Close coordination was also needed with impacted riparians in the project area to communicate construction staging minimizing impact to the project area during construction.

## **Coordinating Agencies**

- City of Algoma
- Wisconsin Department of Natural Resources
- Algoma Utilities

### **Services Provided**

- Engineering Design
- Topographic Survey
- Utility Coordination
- Preliminary & Final Design
- Drainage Design
- Public Involvement

### **Key Contributors**

- Ryan Trzinski, P.E., Project Manager
- Jared Schmidt, P.E., QA/QC
- Jocelyn Meissner, Design Technician
- Scott DeBaker, PLS, Professional Land Surveyor
- Troy Hewitt, PLS, Professional Land Suveyor



## STH 47/Main Street Utility Reconstruction

The Village of Black Creek needed to replace water main, sewer and laterals along STH 47/Main Street prior to WisDOT resurfacing STH 47.

Project Owner: Village of Black Creek | Project Reference: Justin Stingle, Village President, (920) 740-7517

### **Project Highlights**

- 1,400 ft of water main and laterals on north Main Street from the Village's WWTP south to STH 54
- 2,500 ft of water main, 1,400 ft of sanitary sewer and laterals on south Main Street from Burdick Street to CTH B
- Both utilities, including laterals, hydrants, valves and manholes, were replaced. Asphalt was installed in the trench prior to WisDOT reconstruction of the roadway
- Topographic survey and as-built survey
- Design, permitting, and bidding
- Construction administration and observation of two crews
- Detour plan (approved by WisDOT and County)
- Utility work plans
- WDNR SDWLP and CWFP administration
- Hazardous material handling

#### Innovations

- Coordinated with WisDOT and Outagamie County to minimize the vehicle and pedestrian detour times along the route, allowing segments to be open when no work was happening.
- Project was completed under budget.

#### Challenges

- Construction required the closure of the intersection of STH 54 and STH 47. REL and the contractor worked to minimize this closure as much as possible.
- REL's environmental department was available to assist in the removal of hazardous materials long the utility route, which minimized delays.

#### **Key Contributors**

- Jennifer Liimatta, P.E. Project Manager
- Jared Schmidt, P.E. QA/QC
- Scott DeBaker, PLS Survey
- Alan Gustafson, P.G. Hazardous Materials
- Cara Gable Construction Administration & Observation

### **Coordinating Agencies**

- WDNR
- WisDOT
- Outagamie County



## Mill Road Utility, Street, Electrical & Lighting

Village of Sister Bay

From Maple Drive to STH 57/N Bay Shore Drive

Project Owner: Village of Sister Bay | Project Reference: Julie Schmelzer, Village Administrator (920) 854-4118

#### **Project Highlights**

Urbanization of 900 feet of roadway in the heart of downtown Sister Bay.

- Sidewalks
- Curb Ramps
- Drainage Improvements
- Off-street parking
- Intersection Improvements
- Utility coordination
- Street Lighting
- Storm sewer sized for planned future urbanization
- Coordinated storm sewer connection to private development on northwest corner of Maple Drive and Mill Road.

### **Services Performed**

- Topographic survey
- Engineering
- Transportation plat and legal description
- Engineering design
- Storm water management
- Bid package
- Construction administration, observation, and record drawings

#### Innovations

- Realigned Post Office Lane intersection to come in perpendicular to Mill Road--increasing safety for users.
- Coordinated with utility companies to transition from overhead lines to underground to add street lighting.
- 10 curb ramps provide connectivity throughout corridor.
- Construction completed a week early, under budget, and ready for Memorial weekend tourism.

#### Challenges

- Existing roadway was flat and ponded water in front of off-street parking. Shifted the roadway's low point while being mindful of tight elevation constraints.
- High bedrock and plethora of underground utilities made placing storm sewer utility challenging and was placed strategically to minimize conflicts.

### **Key Contributors**

- Jennifer Liimatta, P.E. Project Manager
- Scott DeBaker, PLS Survey
- Michael Leidig, EIT Storm Water Management
- Jared Schmidt, P.E. QA/QC

• Scott Van Calster, Construction Admin. and Observation

Engineering

• Alan Gustafson, P.G. - Geotechnical

Coordinated with Berners-Schober Associates, Inc - St lighting/electrical

Project Staff Jennifer Liimatta, P.E. Project Manager jliimatta@releeinc.com 920-662-9641 releeinc.com

**Environm** 

Surveying | Ecological

22

## Indian Hill Utility and Street Reconstruction

REL designed, bid, and performed contract administration for this complete street and utility reconstruction project in the City of Kiel.

- 630 linear feet of alley construction in a cozy 22-foot section.
- Partnered with Integrity Engineering and Design for structural design of 113 ft concrete retaining wall.

Project Owner: City of Kiel | Project Reference: Kris August, Utilities General Manager (920) 894-2909 ext. 105

### Project Highlights

- Alley matched into multiple parking lot and driveway entrances on the north side with roadway graded tgo the south where mountable curb and gutter.
- Variance granted from WDNR for tighter horizontal separation of water main due to existing site conditions.
- Restored wider sections of roadway to grass to provide uniform roadway width and section.

## Autumn Joy Drive Construction

#### **Services Performed**

- Survey
- Design
- Permitting
- Bidding
- Construction administration
- Staking

#### **Key Contributors**

- Jennifer Liimatta, P.E. Design
- Jared Schmidt, P.E. QA/QC
- Scott DeBaker, PLS Survey

### Challenges

• Reconfigured the storm sewer to fix drainage concerns on properties along the corridor.

- REL designed and constructed the new roadway in the Village of Hobart.
- 1,450-foot road including both urban and rural sections
- Graded ditches to drain storm water to a regional pond to the east.

#### Project Owner: Village of Hobart | Project Reference: Aaron Kramer, Village Adminstrator (920) 869-1011

#### **Project Highlights**

- 1,300 ft of water main extension from existing development and stubbed to set up for future extension.
- 900 ft of sanitary sewer extension.
- Water and sanitary sewer services provided to right-of-way for future single-family homes.
- Geogrid installed beneath 1 ft breaker run to provide structural support due to wetter soil conditions.
- Coordinated with WDNR and EPA.

#### **Services Provided**

- Topographic survey
- Design
- Permitting
- Bidding
- Construction admin. & observation
- Construction staking
- As-built
- Wetland delineation
- Geotechnical investigation

### **Key Contributors**

- Jennifer Liimatta, P.E. Design
- Ryan Trzinski, P.E. Construction Support
- Jared Schmidt, P.E. QA/QC
- James Havel Wetland Delineation
- Brandon Robaidek, P.E. Storm Water Management
- Scott DeBaker, PLS Survey





## Engineering Division of the Public Works Department

**To:** Alderperson Board and Commission Members

From: Andrew M. Beyer, P.E.

Date: October 3, 2024

Subject: Public Works Commission Meeting of October 8, 2024

## Background

#### Agenda Item:

Review and Approve: #13-24 Change Order No. 3 Yard Waste Site Biofilter: CJP Excavating LLC, \$16,260.72

#### BACKGROUND

The new stormwater biofilter at the Yard Waste Site has been completed. The final construction cost was \$338,472.96, with a final change order of \$16,260.72. Cost increases were primarily due to additional grading and placement of gravel, additional underdrain pipe to enhance functionality of the biofilter, and additional erosion control measures to manage stormwater runoff on site. The frequency of rain this spring and early summer contributed to some of the conditions on site that required these additional measures.

The stormwater utility budget for this project was \$400,000. The total cost of construction and construction engineering services has come to \$362,272.96. A Wisconsin Department of Natural Resources (WDNR) Urban Nonpoint Source & Storm Water Grant will reimburse \$150,000 for this project. This new stormwater biofilter will reduce pollutants, specifically Total Suspended Solids (TSS) and Phosphorus, which would otherwise flow offsite and into the wetlands during rain events. This new biofilter helps the City work toward the pollutant reduction goals in the WDNR's Municipal Separate Storm Sewer System (MS4) Permit.

## **Budget Goal**

- 1. Proactively maintains and improves our parks and infrastructure in an effort to ensure quality, safety and compliance
- 2. Promotes and fosters innovative approaches for community development and growth





3. Maintains a safe and healthy community, and expands community education on safety and health

## **Financial Impact**

The estimate cost of construction rose by \$16,260.72. The total cost of construction remains under the budgeted amount of \$400,000.

## Recommendation

Engineering Division staff seek approval of Chage Order No. 3

## 2024 Operational Goals

- 1. Proactively maintains and improves our parks and infrastructure in an effort to ensure quality, safety and compliance
- 2. Supports employee retention and growth, and also works to address critical staffing areas
- 3. Invests in the assessment, strategic planning and maintenance of our city buildings
- 4. Promotes and fosters innovative approaches for community development and growth
- 5. Maintains a safe and healthy community, and expands community education on safety and health



Contract /Memorandum of Understand Section 4, Item C. Coversheet

(Form shall be used for any documents that need Mayor's signature)

Other Party: \_CJP Excavating, LLC\_\_\_\_\_

Approved Resolution Number: \_\_\_\_\_

The following procedure shall be done by the Department Head to respectfully request the signature of the mayor.

\*If the contract is with a Federal, State or County agency you may proceed with obtaining city signatures. All other contracts require the other party to sign before using this document.\*

1. DEPARTMENT HEAD WHO IS REQUESTING AUTHORIZATION TO ENTER INTO THE CONTRACT/MOU AND WHO HAS CONFIRMED AVAILABLE FUNDING, STAFFING, AND PROPER BID PROCESSES WERE FOLLOWED:

Andrew Beyer	16-58-16-60	\$16,260.72
Print Name	Account #	Amount
1.MIM	9/12/24	
Signature	Date	-
2. ROUTED TO FINANCE DIRE	CTOR I 9/12/2024 44	
3. FINANCE DIRECTOR ACKN AND SERVICES BEING REN	OWLEDGES AWARENESS OF THE VEN IDERED:	NDOR AND CONTRACT/MOU AMOUNT,
Sher Rohr, Deputy Treasurer	reasurer	th day of <u>September</u> , 2024.
4. ROUTED TO CITY ATTORNE	EY 🔲	
5. CITY ATTORNEY APPROVA	L AS TO FORM AND EXECUTION:	
Ster J. Chilm	Dated this 20	day of Septenter, 2024.
Steven T. Chesebro, City Attorney		
6. ROUTED TO MAYOR	24/24	
The Finance Director and City Attorney	v signature on this page indicate the document	is ready to be signed by the mayor.
7. MAYOR SIGNATURE 🛃		
8. ROUTED BACK TO DEPART	MENT HEAD	
9. DEPARTMENT HEAD SHALL	-:	
	UMENTS TO OTHER PARTY	gets sent back to the city for our records.)
- ROUTE AN EXECUTED O	COPY TO THE CITY CLERK	г
- ROUTE AN EXECUTED O	COPY TO THE CITY ATTORNEY	



August 28, 2024

CJP Excavating, LLC. Attn: Casey Palm N4498 Geissler Ln. Helenville, WI 53137

Re: City of Watertown 2024-#13-24 | Yard Waste Site Sand Filter Change Order #3 McM. No. W0901-09-23-00641

Enclosed herewith is Change Order #3 for the above referenced project. This change is an <u>increase</u> to the Contract in the amount of \$16,260.72 to adjust the Contact to final quantities. The current Contract Price is \$338,472.96.

Please review and sign in the space provided. **Return <u>all</u> copies to our office.** We will obtain the Owner's signature and distribute accordingly.

Should you have any questions, please contact our office at your convenience.

Respectfully,

McMahon Associates Inc.

Andrew W. Schmidt, P.E. Associate / Municipal & Water Resources Engineer

AWS:mck

Enclosure: Change Order #3

McMAHON ASSOCIATES, INC.



Change Order No. <u>3</u>

August 28, 2024 Date of Issuance: Effective Date: Project: Sand Filter Owner: City of Watertown Owner's Contract No.: 13-24 Contract: Date of Contract: 2024 Yardwaste Site Sand Filter Project #13-24 April 1, 2024 Contractor: CJP Excavating, Inc. The Contract Documents are modified upon execution of this Change Order: Description: Change Order 3 is to establish final quantities as constructed including additional materials needed to complete the project including punchlist items. Attachments: Final quantities spreadsheet and the punchlist item checklist. Change in Contract Price: Change in Contract Times: Original Contract times Working Days Calendar Days Original Contract Price: 9/16/2024 Substantial completion (days or date): Ready for final payment (days or date): 9/30/2024 \$ 299,281.31 Increase from previously approved Change (Increase) (Decrease) from previously approved Change Orders Orders No. 1 to No. 2 No. \_\_\_\_\_ to No.\_\_\_\_ Substantial completion (days):\_ 22,930.93 \$ Ready for final payment (days): \_\_\_\_ -Contract Price prior to this Change Order: Contract Times prior to this Change Order: Substantial completion (days or date): \$ 322,212.24 Ready for final payment (days or date): \_\_\_\_ Increase OR Decrease of this Change Order: (Increase) (Decrease) of this Change Order: \$ 16,260.72 Substantial completion (days or date): Ready for final payment (days or date): -Contract Price incorporating this Change Order: Contract Times with all approved Change Orders: 9/16/2024 Substantial completion (days or date): \$ 338,472.96 Ready for final payment (days or date): \_\_\_\_\_ 9/30/2024 RECOMMENDED: AC ACCEPTED: Bv: By: July Shi By: orized Signature) Engineer (Authorized Signature) Owner (A Contractor: (Authorized Signature) Date: August 30, 2024 Date: Date: Approved by Funding Agency (if applicable) Date:

EJCDC No. C-941 (2002 Edition)

Prepared by the Engineer's Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specification Institute.

31

#### #13-24 Yard Waste Site Sand Filter (#8926127)

#### Payment Applications

.

Owner: Watertown WI, City of

	Vaste Sand Filter			Contr		Paymen	t #1	Payme	nt #2	Paymen	nt #3	Tota	l	Contract to Final Q
	Item Description			Unit Price	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Unit Price	Cost	Difference
1A	15 inch RCP Class IV Culvert	L.F.	160	\$55.00	\$8,800.00	139	\$7,645.00		\$0.00		\$0.00	139	\$7,645.00	(\$1,155.00)
2A	14 inch x 23 inch HERCP Class IV Culvert	L.F.	25	\$106.00	\$2,650.00		\$0.00		\$0.00	25	\$2,650.00	25	\$2,650.00	\$0.00
ЗA	12 inch PVC Storm Sewer	L.F.	25	\$49.75	\$1,243.75	27	\$1,343.25		\$0.00		\$0.00	27	\$1,343.25	\$99.50
4A	6 inch perforated underdrain with gravel	L.F.	256	\$23.00	\$5,888.00		\$0.00		\$0.00	256	\$5,888.00	256	\$5,888.00	\$0.00
5A	12 inch standpipe	EA.	1	\$290.00	\$290.00		\$0.00		\$0.00		\$0.00	0	\$0.00	(\$290.00)
6A	12 inch CMP Endwall	EA.	1	\$250.00	\$250.00	1	\$250.00		\$0.00		\$0.00	1	\$250.00	\$0.00
7A	15 inch RCP Endwall	EA.	4	\$1,100.00	\$4,400.00	4	\$4,400.00		\$0.00		\$0.00	4	\$4,400.00	\$0.00
8A	14 inch x 23 inch HERCP Endwall	EA.	2	\$1,150.00	\$2,300.00	2	\$2,300.00		\$0.00		\$0.00	2	\$2,300.00	\$0.00
9A	21 inch RCP Endwall	EA.	1	\$1,100.00	\$1,100.00	1	\$1,100.00		\$0.00		\$0.00		\$1,100.00	\$0.00
10A	Cleanout	EA.	1	\$100.00	\$100.00		\$0.00		\$0.00	1	\$100.00	1	\$100.00	\$0.00
11A	Sand Filter Excavation	C.Y.	2666	\$14.00	\$37,324.00	2,666	\$37,324.00		\$0.00		\$0.00	2,666	\$37,324.00	\$0.00
12A	Planting Soil Layer	C.Y.	995	\$35.00	\$34,825.00		\$0.00		\$0.00	995	\$34,825,00	995	\$34,825.00	\$0.00
13A	Remove Poor Soil and Replace with 2 foot Clay Liner	S.Y.	0	\$48.22	\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	\$0.00
14A	Geotechnical Engineer and Letter of Certification for Clay Liner	L.S.	0	\$5,000.00	\$0.00		\$0.00		\$0.00		\$0.00	0	\$0.00	\$0.00
15A	Ditching	L.F	1150	\$2.37	\$2,725.50		\$0.00	1,150	\$2,725.50		\$0.00	1,150	\$2,725.50	\$0.00
16A	Install Berm	L.F	1210	\$8.64	\$10,454.40		\$0.00	1,210	\$10,454.40		\$0.00	1,210	\$10,454.40	\$0.00
17A	Double-shredded hardwood mulch	S.Y.	1986	\$4.50	\$8,937.00		\$0.00		\$0.00	1.986	\$8,937.00	1,986	\$8,937.00	\$0.00
18A	Remove Existing Culvert	EA.	1	\$300.00	\$300.00	1	\$300.00		\$0.00	_,	\$0.00	1	\$300.00	\$0.00
19A	Remove and re-install Sign	EA.	2	\$225.00	\$450.00		\$0.00		\$0.00	2	\$450.00	2	\$450.00	\$0.00
20A	Medium Riprap	C.Y.	24	\$75.20	\$1,804.80		\$0.00		\$0.00	33.75	\$2,538.00	33.75	\$2,538.00	\$733.20
21A	Trackout Control	EA.	1	\$1,000.00	\$1,000.00		\$0.00	1	\$1,000.00		\$0.00	1	\$1,000.00	\$0.00
22A	Silt Fence	L.F.	900	\$2.25	\$2,025.00	900	\$2,025.00		\$0.00		\$0.00	900	\$2,025.00	\$0.00
23A	Ditch Check	EA.	6	\$175.00	\$1,050.00		\$0.00	3	\$525.00	3	\$525.00	6000	\$1,050.00	\$0.00
24A	Dewatering	L.S.	1	\$400.00	\$400.00	1	\$400.00	-	\$0.00		\$0.00	1	\$400.00	\$0.00
25A	Erosion Mat, Class I Type B	S.Y.	130	\$2.30	\$299.00		\$0.00		\$0.00	260	\$598.00	260	\$598.00	\$299.00
26A	1-1/4 inch Base Aggregate Dense	C.Y.	2920	\$26.10	\$76,212.00		\$0.00	3.058.29	\$79,821.37	496.73	\$12,964.65	3,555.02	\$92,786.02	\$16,574.02
27A	Grass Restoration (4 inches of topsoil, seed, fertilizer and mulch)	S.Y.	4135	\$8.74	\$36,139.90		\$0.00	-,	\$0.00	4,135	\$36,139.90	4,135	\$36,139.90	\$0.00
28A	Furnish and Install Sand Filter Plants	S.Y.	1986	\$0.86	\$1,707.96		\$0.00		\$0.00	1,986	\$1,707.96	1,986	\$1,707.96	\$0.00
1B	Geosynthetic Liner (minimum 60 mils, double textured)	L.S.	1	\$56,605.00	\$56,605.00		\$0.00	1	\$56,605.00	1,000	\$0.00	1,000	\$56,605.00	\$0.00
C01.1	6 inch perforated underdrain with gravel	L.F.	512	\$23.00	\$11,776.00		\$0.00	512	\$11,776.00		\$0.00	512	\$11,776.00	\$0.00
CO1.2	Cleanout	EA.	2	\$100.00	\$200.00		\$0.00		\$0.00	2	\$200.00	2	\$200.00	\$0.00
CO1.3	Nyoplast Structure	EA.	1	\$2,384.33	\$2,384.33		\$0.00	1	\$2,384.33	2	\$0.00	1	\$2,384.33	\$0.00
CO1.4	Trash Guard	L.S.	1	\$325.00	\$325.00		\$0.00	<sup>^</sup>	\$0.00	1	\$325.00		\$2,384.33	\$0.00
CO2.1	Excavation and Remove Topsoil	L.S.	1	\$8,245.60	\$8,245.60		\$0.00	1	\$8,245.60		\$0.00	1	\$8,245.60	\$0.00
			L			L			. ,		<i>,,</i>	·	¥0,240.00	φ0.00
		Completed to Date			\$322,212.24		\$57,087.25		\$173,537.20		\$107,848.51		\$338,472.96	\$16,260.72

지하는 말 같은 것 같이 같다.



August 28, 2024

City of Watertown Attn: Andrew M. Beyer, P.E., DPW 106 Jones Street P.O. BOX 477 Watertown, Wisconsin 53094

Re: City of Watertown #13-24 Yard Waste Site Sand Filter Certificate for Payment #3 McM. No. W0901-09-23-00641

Dear Andrew:

Enclosed herewith is Certificate for Payment #3 for the above referenced project. This Certificate is issued to CJP Excavating, LLC. in the amount of \$115,903.81 for final payment for work performed through August 7, 2024.

Please process the enclosed, and forward payment to CJP Excavating, LLC. Should you have any questions, please contact our office at your convenience.

Respectfully,

McMahon Associates, Inc.

Andrew W. Schmidt, P.E. Associate / Municipal & Water Resources Engineer

16-58-16-60 Capital Outling - NGB-

AWS:

cc: CJP Excavating, LLC.

Enclosure: Certificate for Payment #3

McMAHON ASSOCIATES, INC.

1445 McMAHON DRIVE NEENAH, WI 54956 Mailing P.O. BOX 1025 NEENAH, WI 54957-1025 PH 920.751.4200 FAX 920.751.4284 MCM@MCMGRP.COM WWW.MCMGRP.COM



5

#### SECTION 00640

#### **APPLICATION FOR PAYMENT**

		No
TO: _	City of Watertown (OWNER)	
FROM	1: <u>CJP Excambing LLC</u> (CONTRACTOR)	
	ract: <u>2024 Yardwaste Site Sand Filter Project</u>	• • •
OWN	ER's Contract No. <u>13-24</u>	
For W	Vork accomplished through the date of: $8 - 7 - 2024$	
1.	Original Contract Price	\$ 299,281.31
2.	Net change by Change Orders and Written Amendments (+or -)	\$ <del>22, 930, 93</del> \$ 39,191.65
3.	Current Contract Price (1 plus 2)	<b>5</b> 338,472.96
4.	Total completed and stored to date:	\$ 332, 58496 \$ 338,472.96
5.	Total completed and stored to date prior to C.O. Approval:	\$
6.	Difference/Change Order Amount(s)(5 MINUS 4):	\$
7.	Retainage Line 5. (per Agreement)	\$
	<u>0%</u> % of completed Work: \$ \$0.00	
	% of stored material: \$	¢ 0.00
	Total Retainage	\$ 0.00
8.	Total completed and stored to date less retainage (4 minus 5)	\$ 338,472.96
9.	Less previous Application for Payments:	\$ 222,569.15
10.	DUE THIS APPLICATION (8 MINUS 9):	<b>\$</b> \$ 115,903.81
Acco	mpanying Documentation:	(JWS)

#### **CONTRACTOR'S Certification:**

The undersigned CONTRACTOR certifies that (1) all previous progress payments received from OWNER on account of Work done under the Contract referred to above have been applied on account to discharge CONTRACTOR's legitimate obligations incurred in connection with Work covered by prior Applications for Payment number 1 through \_\_\_\_\_\_ inclusive; (2) title of all Work , materials and equipment incorporated in said Work or otherwise listed in or covered by this Application for Payment will pass to OWNER at time of payment free and clear of all Liens, security interests and encumbrances (except such as are covered by a Bond acceptable to OWNER Indemnifying OWNER against any such Llen, security interest or encumbrance); and (3) all Work covered by this Application for Payment is in accordance with the Contract Documents and not defective.

Dated 8-7-2024	Cor	<u>C</u> 3P	Excaveling LLC
	-	6.2	

By: **Contractor's Authorized Representative** 

CITY OF WATERTOWN 2024 YARDWASTE SITE SAND FILTER PROJECT #13-24 CONTRACT DOCUMENTS Page 1 of 2

### #13-24 Yard Waste Site Sand Filter (#8926127)

**Payment Applications** 

.

14

Owner: Watertown WI, City of

	Vaste Sand Filter	Contract		tract	Paymer	Payment #2			
em Code	Item Description	UofM	Quantity	Unit Price	Cost	Quantity	Cost	Quantity	Cost
1A	15 inch RCP Class IV Culvert	L.F.	139	\$55.00	\$7,645.00	139	\$7,645.00		\$0
2A	14 inch x 23 inch HERCP Class IV Culvert	L.F.	25	\$106.00	\$2,650.00		\$0.00		\$0
ЗA	12 inch PVC Storm Sewer	L.F.	27	\$49.75	\$1,343.25	27	\$1,343.25		\$0
4A	6 inch perforated underdrain with gravel	L.F.	256	\$23.00	\$5,888.00		\$0.00		\$0
5A	12 inch standpipe	EA.	0	\$290.00	\$0.00		\$0.00		\$0
6A	12 inch CMP Endwall	EA.	1	\$250.00	\$250.00	1	\$250.00		\$0
7A	15 inch RCP Endwall	EA.	4	\$1,100.00	\$4,400.00	4	\$4,400.00		\$0
8A	14 inch x 23 inch HERCP Endwall	EA.	2	\$1,150.00	\$2,300.00	2	\$2,300.00		\$(
9A	21 inch RCP Endwall	EA.	1	\$1,100.00	\$1,100.00	1	\$1,100.00		\$0
10A	Cleanout	EA.	1	\$100.00	\$100.00		\$0.00		\$0
11A	Sand Filter Excavation	C.Y.	2666	\$14.00	\$37,324.00	2,666	\$37,324.00		\$0
12A	Planting Soil Layer	C.Y.	995	\$35.00	\$34,825.00		\$0.00		\$0
13A	Remove Poor Soil and Replace with 2 foot Clay Liner	S.Y.	0	\$48.22	\$0.00		\$0.00		\$0
14A	Geotechnical Engineer and Letter of Certification for Clay Liner	L.S.	0	\$5,000.00	\$0.00		\$0.00		\$0
15A	Ditching	L.F	1150	\$2.37	\$2,725.50		\$0.00	1,150	\$2,72
16A	Install Berm	L.F	1210	\$8.64	\$10,454.40		\$0.00	1,210	\$10,45
17A	Double-shredded hardwood mulch	S.Y.	1986	\$4.50	\$8,937.00		\$0.00		\$
18A	Remove Existing Culvert	EA.	1	\$300.00	\$300.00	1	\$300.00		\$
19A	Remove and re-install Sign	EA.	2	\$225.00	\$450.00		\$0.00		\$
20A	Medium Riprap	C.Y.	33.75	\$75.20	\$2,538.00		\$0.00		\$
21A	Trackout Control	EA.	1	\$1,000.00	\$1,000.00		\$0.00	1	\$1,000
22A	Silt Fence	L.F.	900	\$2.25	\$2,025.00	900	\$2,025.00		\$
23A	Ditch Check	EA.	6	\$175.00	\$1,050.00		\$0.00	3	\$52
24A	Dewatering	L.S.	1	\$400.00	\$400.00	1	\$400.00		\$
25A	Erosion Mat, Class I Type B	S.Y.	260	\$2.30	\$598.00		\$0.00		\$0
26A	1-1/4 inch Base Aggregate Dense	C.Y.	3555.02	\$26.10	\$92,786.02		\$0.00	3,058.29	\$79,823
27A	Grass Restoration (4 inches of topsoil, seed, fertilizer and mulch)	S.Y.	4135	\$8.74	\$36,139.90		\$0.00		\$0
28A	Furnish and Install Sand Filter Plants	S.Y.	1986	\$0.86	\$1,707.96		\$0.00		\$
1B	Geosynthetic Liner (minimum 60 mils, double textured)	L.S.	1	\$56,605.00	\$56,605.00		\$0.00	1	\$56,60
CO1.1	6 inch perforated underdrain with gravel	L.F.	512	\$23.00	\$11,776.00		\$0.00	512	\$11,776
	Cleanout	EA.	2	\$100.00	\$200.00		\$0.00		\$0
CO1.3	Nyoplast Structure	EA.	1	\$2,384.33	\$2,384.33		\$0.00	1	\$2,384
	Trash Guard	L.S.	1	\$325.00	\$325.00		\$0.00		\$0
CO2.1	Excavation and Remove Topsoil	L.S.	1	\$8,245.60	\$8,245.60		\$0.00	1	\$8,24
		Completed to Date			\$338,472.96		\$57,087.25		\$173,537

Payme	ent #3	Total				
Quantity	Cost	Unit Price	Cost			
	\$0.00	139	\$7,645.00			
25	\$2,650.00	25	\$2,650.00			
	\$0.00	27	\$1,343.25			
256	\$5,888.00	256	\$5,888.00			
	\$0.00	0	\$0.00			
	\$0.00	1	\$250.00			
	\$0.00	4	\$4,400.00			
	\$0.00	2	\$2,300.00			
	\$0.00	1	\$1,100.00			
1	\$100.00	1	\$100.00			
	\$0.00	2,666	\$37,324.00			
995	\$34,825.00	995	\$34,825.00			
	\$0.00	0	\$0.00			
	\$0.00	0	\$0.00			
	\$0.00	1,150	\$2,725.50			
	\$0.00	1,210	\$10,454.40			
1,986	\$8,937.00	1,986	\$8,937.00			
	\$0.00	1	\$300.00			
2	\$450.00	2	\$450.00			
33.75	\$2,538.00	33.75	\$2,538.00			
	\$0.00	1	\$1,000.00			
	\$0.00	900	\$2,025.00			
3	\$525.00	6	\$1,050.00			
	\$0.00	1	\$400.00			
260	\$598.00	260	\$598.00			
496.73	\$12,964.65	3,555.02	\$92,786.02			
4,135	\$36,139.90	4,135	\$36,139.90			
1,986	\$1,707.96	1,986	\$1,707.96			
	\$0.00	1	\$56,605.00			
	\$0.00	512	\$11,776.00			
2	\$200.00	2	\$200.00			
	\$0.00	1	\$2,384.33			
1	\$325.00	1	\$325.00			
	\$0.00	1	\$8,245.60			
	\$107,848.51	L	\$338,472.96			

\$0.00 Retainage:

Previous Applications: \$222,569.15

Total Payment: \$115,903.81



# MEMO

## Engineering Division of the Public Works Department

**To:** Alderperson Board and Commission Members

From: Andrew M. Beyer, P.E.

Date: October 3, 2024

Subject: Public Works Commission Meeting of October 8, 2024

## Background

#### Agenda Item:

Review and Approve: #5-24 Change Order No. 2 2024 Storm System Cleaning & Televising: New Restoration and Recovery Services LLC, dba Aqualis, \$14,311.01

#### BACKGROUND

The 2024 storm sewer system cleaning and televising has been completed. The final cost was \$207,949.81, with a final change order of \$14,311.01. The original bid amount for this project was \$193,638.80. Cost increases were primarily due to deep or heavy cleaning of storm pipes that had more than the expected amount of sediment and debris built up. The frequency of rain this spring and early summer contributed to a two-week delay to complete this project, which was wrapped up in early August.

This is the third year in a five or six year program to clean all of the storm sewer pipes around the City. Cleaning the storm sewer pipes is necessary to minimize flooding during heavy rain events, as well as to inspect the integrity of the underground structures and plan for future repairs.

## **Budget Goal**

- 1. Proactively maintains and improves our parks and infrastructure in an effort to ensure quality, safety and compliance
- 2. Promotes and fosters innovative approaches for community development and growth
- 3. Maintains a safe and healthy community, and expands community education on safety and health



MEMO

## **Financial Impact**

The estimate cost of construction rose by \$14,311.01. The original bid amount for this project was **193,638.80** 

## Recommendation

Engineering Division staff seek approval of Chage Order No. 2

## 2024 Operational Goals

- 4. Proactively maintains and improves our parks and infrastructure in an effort to ensure quality, safety and compliance
- 5. Supports employee retention and growth, and also works to address critical staffing areas
- 6. Invests in the assessment, strategic planning and maintenance of our city buildings
- 7. Promotes and fosters innovative approaches for community development and growth
- 8. Maintains a safe and healthy community, and expands community education on safety and health

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

CL	on 4, Item D.
City	

STREET NAME	START MH	END MH	VIAP LENGTH	PIPE SIZE	CLEAN METHOD	AMOUNT & TYPE OF DEBRI
Dak Park Ave	934-369	934-183	8		STO	Medium sand / stones
Dak Park Ave	934-368	934-183	8	12.0	STO	Medium sand / stones
Dak Park Ave	934-183	934-182	12	146.5	STO	Medium sand / stones
Douglas Ave	934-367A	934-182	10	26.9	STO	Medium sand / stones
Douglas Ave	934-367	934-182	10	41.1	STO	Medium sand / stones
Douglas Ave	934-366	934-182	10	20.0	STO	Medium sand / stones
Douglas Ave	934-182	934-180	15	291.2	STO	Medium sand / stones
Douglas Ave	934-364	934-180	8	7.6	STO	Medium sand / stones
Carl Schurz Dr	934-361	934-179	10	24.7	STO	Light sand
Carl Schurz Dr	934-359	934-179	12	14.4	STO	Light sand
Carl Schurz Dr	934-360	934-179	12	36.8	STO	Light sand
Douglas Ave	934-180	934-181	15	48.8	STO	Medium sand / stones
Douglas Ave	934-363	934-181	12	31.1	STO	Medium sand / stones
Douglas Ave	934-365	934-181	12	24.5	STO	Medium sand / stones
Douglas Ave	934-362	934-181	12	17.8	STO	Medium sand / stones
Carl Schurz Dr	934-179	934-181	15	295.5	STO	Medium sand / stones
Douglas Ave	934-181	934-173	18		STO	Medium sand / stones
Douglas Ave	934-353	934-173	12	22.9	STO	Medium sand / stones
Oouglas Ave	934-352	Mainline Tee	12	3.0	STO	Medium sand / stones
/irginia Ave	934-175A	934-175	12	63.8	STO	Medium sand / stones
/irginia Ave	934-176	934-175A	12	165.0	STO	Medium sand / stones
/irginia Ave	934-355	934-175	12	53.2	STO	Medium sand / stones
eonard St	933-513	933-214	12	24.2	STO	Medium sand, rocks, leaves
eonard St	933-514	933-214	12	5.0	STO	Medium sand, rocks, leaves
eonard St	933-214	933-215	12	60.2	STO	Medium sand, rocks, leaves
Center St	933-511	933-512	12	30.0	STO	Medium sand, rocks, leaves
Center St	933-512	933-215	12	11.0	STO	Medium sand, rocks, leaves
Center St	933-215	933-510A	12	200.2	STO	Medium sand, rocks, leaves
Center St	933-509	933-510	12	30.7	STO	Medium sand, rocks, leaves
Center St	933-510	933-213A	12	150.5	STO	Medium sand, rocks, leaves
Center St	933-510A	933-510	12	287.8	STO	Medium sand, rocks, leaves
Center St	933-213A	933-213	12	21.8	STO	Medium sand, rocks, leaves
Center St	933-213	933-508	15	48.9	STO	Medium sand, rocks, leaves
Center St	933-507	933-508	12	31.0	STO	Medium sand, rocks, leaves
Center St	933-508	933-632	15	343.6	STO	Medium sand, rocks, leaves
Center St	933-633	933-632	12	31.6	STO	Medium sand, rocks, leaves
Center St	933-632	933-528	15	242.0	STO	Medium sand & rocks
Center St	933-527	933-528	12		STO	Medium sand & rocks
Prospect St	933-504	933-212A	12	-	STO	Medium sand & rocks
Prospect St	933-506	933-212A	12	26.8	STO	Medium sand & rocks
Prospect St	933-212A	933-212A 933-212B	12		STO	Medium sand & rocks
Prospect St	933-212A	933-212D	10		STO	Medium sand & rocks
Prospect St	933-212D	933-212C	10	24.9	STO	Medium sand & rocks
Prospect St	933-212	933-212C	12	24.5	STO	Medium sand & rocks
	933-212C	933-534	12		STO	Medium sand & rocks
Prospect St Prospect St	933-505	933-534	10	26.6	STO	Medium sand & rocks
Prospect St	933-535	933-534	12		STO	Medium sand & rocks
Prospect St	933-007	933-534	10		STO	Medium sand & rocks
Prospect St	933-007 933-534	933-534	10		STO	Medium sand & rocks
			10	29.1	STO	
Prospect St	933-536	933-537				Medium sand & rocks
Prospect St	933-537	933-231	10		STO	Medium sand & rocks
S Paulding St	933-231	933-230	12	219.4	STO	Medium sand & rocks
Paulding St	933-230	933-006	12	41.4	STO	Medium sand & rocks
Paulding St	933-533	933-532	10		STO	Medium sand & rocks
S Paulding St	933-532	933-006	12	21.1	STO	Medium sand & rocks
S Paulding St	933-006	933-229	12	121.1	STO	Medium sand & rocks

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

CL Section 4, Item	D.
City	

STREET NAME	START MH	END MH	MAP LENGTH			AMOUNT & TYPE OF DEBR
S Paulding St	933-229	933-003	12	95.5	STO	Medium sand & rocks
S Paulding St	933-530	933-004	12	4.0	STO	Medium sand & rocks
S Paulding St	933-004	933-003	12	6.0	STO	Medium sand & rocks
S Paulding St	933-531	933-005	12	4.0	STO	Medium sand & rocks
S Paulding St	933-005	933-003	12	23.7	STO	Medium sand & rocks
S Paulding St	933-003	933-228	12	100.5	STO	Medium sand & rocks
Center St	933-528	933-228	18	27.6	STO	Medium sand & rocks
Center St	933-228	933-529	18	45.2	STO	Medium sand & rocks
Center St	933-529	933-496	18	162.5	STO	Medium sand & rocks
Center St	933-495	933-496	12	30.6	STO	Medium sand & rocks
Center St	933-496	933-493	18	246.9	STO	Medium sand & rocks
Center St	933-492	933-493	12	35.3	STO	Medium sand & rocks
Center St	933-493	933-081	18	115.3	STO	Medium sand & rocks
Center St	933-487	933-081	10	30.7	STO	Medium sand & rocks
Center St	933-081	933-488	18	125.4	STO	Medium sand & rocks
Center St	933-489	933-488	12	31.5	STO	Medium sand & rocks
Center St	933-488	933-485	12	241.2	STO	Medium sand & rocks
Center St	933-013	933-485	12	4.0	STO	Medium sand & rocks
Center St	933-012	933-485	12	4.0	STO	Medium sand & rocks
Center St	933-485	933-486	24	24.6	STO	Medium sand & rocks
Center St	933-486	933-480	24	165.0	STO	Medium sand & rocks
	933-479	933-478	12	29.7	STO	Medium sand & rocks
Center St		933-478	-			
Center St	933-478		21	270.5	STO	Medium sand & rocks
Center St	933-065	933-477	12	23.3	STO	Medium sand & rocks
Center St	933-477	933-011	24	24.0	STO	Medium sand & rocks
Center St	933-011	933-367	24	22.0	STO	Medium sand & rocks
Prospect St	933-517	933-518	12	31.7	STO	Medium sand & rocks
Easement Center St	933-494	933-207	21	374.6	STO	Medium sand & rocks
Easement Center St	933-207	933-207A	21	96.0	STO	Medium sand & rocks
Easement Center St	933-207A	933-207B	21	167.2	STO	Medium sand & rocks
Easement Center St	933-207B	933-207C	21	78.5	STO	Medium sand & rocks
Easement Center St	933-207C	933-641	21	29.1	STO	Medium sand & rocks
Easement North Av	933-640	933-483	10	4.0	STO	Medium sand & rocks
Easement North Av	933-483	933-641	33		STO	No line
Easement North Av	933-484	933-641	10	4.0	STO	Medium sand & rocks
Easement Center St	933-641A	933-476	33	214.6	STO	Medium sand & rocks
Easement Center St	933-641	933-641A	33	32.5	STO	Medium sand & rocks
Easement Elizabeth Av	933-476	933-064	42	35.8	STO	Medium sand & rocks
Easement Elizabeth Av	933-064	OUT FALL	24	216.4	STO	Medium sand & rocks
N Fourth St	934-388	934-192	12	4.0	STO	Medium sand & rocks
N Fourth St	934-389	934-192	12	7.0	STO	Medium sand & rocks
Douglas Ave Easement	934-356	934-193A	18	147.7	STO	Medium sand & rocks
Douglas Ave Easement	934-193A	934-193	18	145.0	STO	Medium sand & rocks
N Fourth St	934-192	934-193	15	77.2	STO	Medium sand & rocks
N Fourth St	934-193	934-194	21	225.1	STO	Medium sand & rocks
N Fourth St	934-194	934-195	21	33.0	STO	Medium sand & rocks
N Fourth St	934-195	933-009	21	291.1	STO	Medium sand & rocks
N Fourth St	933-010	933-009	12	4.0	STO	Medium sand & rocks
N Fourth St	933-009	933-367	24	37.9	STO	Medium sand & rocks
N Fourth St	933-367	933-368	36	115.1	STO	Medium sand & rocks
N Fourth St	933-277	933-368	18	22.3	STO	Medium sand & rocks
			18		STO	
N Fourth St	933-369	933-368		8.0		Medium sand & rocks
N Fourth St	933-368	OUT FALL	36	67.7	STO	Medium sand & rocks
Oak Park Ave	934-374	934-373	12	35.4	STO	Medium sand & rocks
Oak Park Ave	934-370	934-371	10	28.4	STO	Medium sand & rocks
Oak Park Ave	934-371	934-372	12	53.9	STO	Medium sand & rocks

<b>AQUALIS</b>
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

<b>CL</b> Citv	Section 4, Item D.

STREET NAME	START MH	END MH	1	PIPE SIZE		AMOUNT & TYPE OF DEBRIS
Oak Park Easement	End of pipe	934-372	48		STO	Full of water
Oak Park Easement	934-372	934-358	36-48		STO	Full of water
Oak Park Easement	934-358	OUT FALL	36-48		STO	Full of water
N Second St	933-491	933-491A	12	61.5	STO	Medium / heavy grit & leave
N Second St	933-491A	OUT FALL	15	34.0	STO	Medium / heavy grit & leave
E Arcade Ave	933-521	933-522	12	21.8	STO	Medium gravel / stones
E Arcade Ave	933-261A	Mainline Tee	12	8.0	STO	Medium gravel / stones
E Arcade Ave	933-522	933-216	12	40.2	STO	Medium gravel / stones
E Arcade Ave	933-524A	933-216A	12	5.0	STO	Medium gravel / stones
E Arcade Ave	933-216	933-216A	12	364.3	STO	Medium gravel / stones
E Arcade Ave	Line North	933-216	12	1.0	STO	Medium gravel / stones
E Arcade Ave	933-523	Mainline Tee	10	39.1	STO	Medium gravel / stones
E Arcade Ave	933-524	Mainline Tee	12	8.0	STO	Medium gravel / stones
E Arcade Ave	933-525A	Mainline Tee	12	4.0	STO	Medium gravel / stones
E Arcade Ave	933-525	933-525A	12	3.0	STO	Medium gravel / stones
E Arcade Ave Easement	933-220	933-218	36	356.9	STO	Culvert pipe
E Arcade Ave Easement	933-218	933-217	36	53.2	STO	Culvert pipe
E Arcade Ave Easement	933-264	Mainline Tee	10	0012	STO	Culvert pipe
E Arcade Ave Easement	933-217	933-217A	36	290.4	STO	Culvert pipe
E Arcade Ave Easement	933-217A	933-541	36	623.2	STO	Culvert pipe
E Spaulding St	933-538	933-233	12	59.4	STO	Medium rocks
E Spaulding St	933-232	933-233	12	11.0	STO	Medium rocks
E Spaulding St	933-539	933-233	12	24.2	STO	Medium rocks
· · · · · · · · · · · · · · · · · · ·		933-235	12	186.8	STO	Medium rocks
E Spaulding St E Spaulding St	933-233		36	26.7	STO	Medium rocks
	933-541	933-235	36	5.2	STO	Medium rocks
E Spaulding St	933-235	933-540	36			
E Spaulding St	933-540	933-234		14.5	STO	Medium rocks
N Second St	933-500	Mainline Tee	12	4.0	STO	Medium rocks
N Second St	933-501	933-501A	12	28.0	STO	Medium rocks
N Second St	933-499	933-210	12	29.0	STO	Medium sand / rocks
N Second St	933-490	933-491	12	8.0	STO	Medium sand / rocks
Lounsbury St	933-503	933-211	12	4.0	STO	Medium sand / rocks
Lounsbury St	933-634	Mainline Tee	18	8.0	STO	Medium sand / rocks
Lounsbury St	933-211	933-211A	36	16.5	STO	Medium sand / rocks
Lounsbury St	933-211A	933-502	36	10.0	STO	Medium sand / rocks
Lounsbury St	933-636	933-502	12	8.0	STO	Medium sand / rocks
Lounsbury St	933-234	933-211	36	410.1	STO	Medium sand / rocks
Robert St	928-020	928-034	12	181.6	STO	Medium sand / rocks
Robert St	End of pipe	928-034	34-53	35.3	STO	Medium sand / rocks
Davis St	928-034	928-033	34-53	8.0	STO	Medium sand / rocks
Davis St	928-033	928-017	34-53	51.5	STO	Medium sand / rocks
Davis St	928-017	933-019	38-60	188.1	STO	Medium sand / rocks
Davis St	933-018	933-019	12	22.4	STO	Medium sand / rocks
Davis St	933-020	933-019	12	10.0	STO	Medium sand / rocks
Davis St	933-019	933-021	38-60	167.4	STO	Medium sand / rocks
Davis St	933-305	933-021	12	24.5	STO	Medium sand / rocks
Davis St	933-306	933-021	12	4.0	STO	Medium sand / rocks
Leonard St	933-022	933-519	12	23.1	STO	Medium sand / rocks
Leonard St	933-023	933-519	12	8.0	STO	Medium sand / rocks
Leonard St	933-519	933-520	12	28.7	STO	Medium sand / rocks
Leonard St	933-024	933-520	12	5.0	STO	Medium sand / rocks
Leonard St	933-520	933-026	12	43.4	STO	Medium sand / rocks
Leonard St	933-017	933-025	12	3.0	STO	Medium sand / rocks
Leonard St	933-025	933-026	12	4.0	STO	Medium sand / rocks
Easement	933-502	933-208	43-53	221.4	STO	Medium sand / rocks
	555 502	555 200			5.0	

<b>AQUALIS</b>
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

СГ	Section 4, Item D.
Cit	Section 4, item D.

STREET NAME	START MH	END MH		PIPE SIZE		AMOUNT & TYPE OF DEBR
Easement	933-261	933-209	43-53	132.2	STO	Medium sand / rocks
North Ave	933-209	933-497	43X53	14.5	STO	Medium sand / rocks
North Ave	933-497	933-497A	43X53	10.0	STO	Medium sand / rocks
lorth Ave	933-497A	933-498	43X53	16.5	STO	Medium sand / rocks
lorth Ave	933-638	933-639	42		STO	No line
lorth Ave	933-639	933-498	42		STO	No line
lorth Ave	933-498	OUT FALL	42	62.0	STO	Medium sand / rocks
awnview Ln	933-035	933-295	12	7.0	STO	Medium sand / rocks
awnview Ln	933-295	933-034	12	21.7	STO	Medium sand / rocks
awnview Ln	933-033	933-296	12	6.0	STO	Medium sand / rocks
awnview Ln	933-296	933-034	12	9.0	STO	Medium sand / rocks
awnview Ln	End of pipe	933-037	12	79.1	STO	Medium sand / rocks
awnview Ln	933-037	933-222	12	32.2	STO	Medium sand / rocks
awnview Ln	933-035	933-295	12	7.0	STO	Medium sand / rocks
awnview Ln	933-034	933-222	21	166.4	STO	Medium sand / rocks
awnview Ln	933-222	933-298	21	115.3	STO	Medium sand / rocks
awnview Ln	933-299	933-298	12	115.5	STO	Medium sand / rocks
awnview Ln		933-298	12	27.5	STO	Medium sand / rocks
	933-297 933-298		21		STO	
eonard St		933-223	12	38.5 24.0	STO	Medium sand / rocks Medium sand / rocks
Robert St	928-035	928-020	12	7.0	STO	,
Robert St	928-036	928-020				Medium sand / rocks
eonard St	933-026	933-027	18	157.8	STO	Medium sand / rocks
eonard St	933-027	933-029	18	38.2	STO	Medium sand / rocks
eonard St	933-030	933-029	12	24.1	STO	Medium sand / rocks
eonard St	933-028	933-029	12	4.0	STO	Medium sand / rocks
eonard St	933-029	933-301	21	52.8	STO	Medium sand / rocks
eonard St	933-302	933-301	12	31.3	STO	Medium sand / rocks
eonard St	933-301	933-031	21	20.6	STO	Medium sand / rocks
Davis St	933-021	933-031	38-60	358.5	STO	Medium sand / rocks
eonard St	933-032	933-303	12	7.0	STO	Medium sand / rocks
eonard St	933-303	933-304	12	33.4	STO	Medium sand / rocks
eonard St	933-304	933-225	15	25.3	STO	Medium sand / rocks
eonard St	933-031	933-225	48	64.8	STO	Medium sand / rocks
asement	933-226	933-221	24	300.6	STO	Medium sand / rocks
asement	933-226A	933-226	24	100.0	STO	Medium sand / rocks
asement	933-266	MAINLINE TEE	21		STO	No Access
eonard St	933-221	933-224	24	12.0	STO	Medium sand / rocks
eonard St	933-224	MAINLINE TEE	24	35.4	STO	Medium sand / rocks
eonard St	933-225	933-300	54	138.5	STO	Medium sand / rocks
eonard St	933-300	933-223	54	147.8	STO	Medium sand / rocks
eonard St	933-223	933-038	54	391.4	STO	Medium sand / rocks
eonard St	933-038	OUT FALL	54	166.2	STO	Medium sand / rocks
Western Ave/10th	804-980	804-462	12	16.2	STO	Medium sand / rocks
Vestern Ave/10th	804-462	804-461A	12	244.1	STO	Medium sand / rocks
Western Ave/12th	804-789	804-788	12	66.9	STO	Medium sand / rocks
Western Ave/12th	804-788	804-594	15	21.0	STO	Medium sand / rocks
Western Ave/12th	804-788	804-394	13	62.1	STO	Medium sand / rocks
Western Ave/12th	804-791	804-790	12	35.0	STO	Medium sand / rocks
Western Ave/12th	804-787	804-790	12	20.4	STO	Medium sand / rocks
Vestern Ave/12th	804-790	804-594	15	62.5	STO	Medium sand / rocks
Nestern Ave	804-594	804-549	24	174.7	STO	Medium sand / rocks
Vestern Ave	804-549	804-552	24	337.0	STO	Medium sand / rocks
Vestern Ave	804-552	804-551	24	56.0	STO	Medium sand / rocks
Vestern Ave	804-174	804-173	15	41.2	STO	Medium sand / rocks
Vestern Ave/10th	804-174	804-550	12	34.0	STO	Medium sand / rocks
Western Ave/10th	804-175	804-550	12	6.0	STO	Medium sand / rocks

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

CLΓ	0 1 1 1 0
Cit	Section 4, Item D.

STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	<b>CLEAN METHOD</b>	AMOUNT & TYPE OF DEBRIS
Western Ave/10th	804-550	804-552	12	68.7	STO	Medium sand / rocks
Western Ave/10th	804-180	804-552	12	54.5	STO	Medium sand / rocks
Western Ave/10th	804-178	804-179	12	40.0	STO	Medium sand / rocks
Western Ave/10th	804-179	804-552	12	32.5	STO	Medium sand / rocks
Western Ave/10th	804-177	804-176	12	30.0	STO	Medium sand / rocks
Western Ave/10th	804-176	804-551	12	18.1	STO	Medium sand / rocks
Western Ave/10th	804-173	804-551	15	44.0	STO	Medium sand / rocks
Western Ave/10th	804-976	804-461	12	28.4	STO	Medium sand / rocks
Western Ave/10th	804-461A	804-461	12	34.6	STO	Medium sand / rocks
Western Ave/10th	804-978	804-461	12	12.0	STO	Medium sand / rocks
Western Ave/10th	804-977	804-461A	12	15.9	STO	Medium sand / rocks
Western Ave/10th	804-979	804-462	12	29.8	STO	Medium sand / rocks
Western Ave/10th	804-461	804-550	12	244.0	STO	Medium sand / rocks
Western Ave/9th	804-181	804-182	12	32.6	STO	Medium sand / rocks
Western Ave/9th	804-182	804-183	15	50.7	STO	Medium sand / rocks
Western Ave/9th	804-183	804-553	15	19.3	STO	Medium sand / rocks
Western Ave/9th	804-661	804-661B	12	6.0	STO	Medium sand / rocks
Western Ave/9th	804-661A	804-661B	12	32.4	STO	Medium sand / rocks
Western Ave/9th	804-661B	804-186A	12	199.6	STO	Medium sand / rocks
Western Ave/9th	804-0015	804-186A	12	28.5	STO	Medium sand / rocks
Western Ave/9th	804-185	804-186A 804-186A	12	6.0	STO	Medium sand / rocks
Western Ave/9th	804-186A	804-180A 804-184	12	44.7	STO	Medium sand / rocks
			13	44.7	STO	Medium sand / rocks
Western Ave/9th Western Ave/9th	804-184	804-553	24	247.0		
	804-551	804-553			STO	Medium sand / rocks
Western Ave/9th	804-553	804-554	30		STO	Medium sand / rocks
Western Ave/8th	804-188	804-187	12	12.0	STO	Light sand
Western Ave/8th	804-187	804-554	15	19.9	STO	Light sand
Western Ave/8th	804-190	804-554	15	43.6	STO	Light sand
Western Ave/8th	804-189	804-190	12	12.0	STO	Light sand
Western Ave/8th	804-554	804-556	30	211.1	STO	Light sand
Western Ave/8th	804-192	804-191	12	32.2	STO	Light sand
Western Ave/8th	804-191	804-556	15	42.2	STO	Light sand
Western Ave/8th	804-556	804-555	15	35.1	STO	Light sand
Western Ave/7th	804-555	804-565	30	248.1	STO	Light sand
Western Ave/7th	804-213	804-214	12	17.7	STO	Light sand
Western Ave/7th	804-215	804-214	12	27.6	STO	Light sand
Western Ave/7th	804-218	804-219	12	31.3	STO	Light sand
Western Ave/7th	804-219	804-217	12	48.5	STO	Light sand
Western Ave/7th	804-216	804-217	12	25.9	STO	Light sand
Western Ave/7th	804-217	840-565	15	44.5	STO	Light sand
Western Ave/7th	804-214	804-565	15	15.6	STO	Light sand
Western Ave/6th	804-193	804-194	12		STO	Light sand
Western Ave/6th	804-194	804-195	15	31.7	STO	Light sand
Western Ave/6th	804-195	804-557	15	18.2	STO	Light sand
Western Ave/6th	804-196	804-557	12	44.5	STO	Light sand
Western Ave/6th	804-565	804-557	30		STO	Light sand
Western Ave/5th	804-557	804-562	30	246.2	STO	Light sand
Western Ave/5th	804-562	804-561	30	63.4	STO	Light sand
Western Ave/5th	804-205	804-206	12		STO	Light sand
Western Ave/5th	804-206	804-561	15		STO	Light sand
Western Ave/5th	804-207	804-562	12	20.2	STO	Light sand
Western Ave/5th	804-208	804-562	12		STO	Light sand
S Fourth St	804-210	804-563	12		STO	Light sand
S Fourth St	804-210A	804-210	12		STO	Light sand
S Fourth St	804-563	804-600A	24	139.5	STO	Light sand
S Fourth St	804-600A	804-600	24	106.5	STO	Light sand

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

CLI	
-	Section 4, Item D.
Cit	

eonard St eonard St	933-526					AMOUNT & TYPE OF DEBR
	933-320	933-265	12	53.8	STO	Medium sand / rocks
	933-265	933-038	15	14.6	STO	Medium sand / rocks
eonard St	933-294	933-293	12	30.6	STO	Medium sand / rocks
eonard St	933-293	933-038	12	38.1	STO	Medium sand / rocks
eonard St	933-292	Mainline Tee	12	4.0	STO	Medium sand / rocks
Prospect St	933-515	933-516	12	38.4	STO	Medium sand / rocks
Elizabeth St	933-469	933-201	12	263.7	STO	Medium sand / rocks
lizabeth St	933-472	933-201	12	6.0	STO	Medium sand / rocks
lizabeth St	933-471	933-470	12	36.1	STO	Medium sand / rocks
lizabeth St	933-470	933-201	12	29.5	STO	Medium sand / rocks
lizabeth St	933-201	933-202	12	237.9	STO	Medium sand / rocks
lizabeth St	933-475	933-474	12	35.6	STO	Medium sand / rocks
Elizabeth St	933-474	933-202	12	23.3	STO	Medium sand / rocks
Elizabeth St	933-202	933-473	12	6.0	STO	Medium sand / rocks
lizabeth St	933-473	OUT FALL	12	149.3	STO	Medium sand / rocks
Schiller St	933-482	933-481	15	6.0	STO	Medium sand / rocks
Schiller St	933-481	933-203	15	26.8	STO	Medium sand / rocks
ichiller St	933-480	933-203	15	4.0	STO	Medium sand / rocks
Schiller St	933-203	933-205	15	205.3	STO	Medium sand / rocks
Schiller St	933-205	933-200	15	112.3	STO	Medium sand / rocks
Schiller St Easement	933-200	933-204	15	72.8	STO	Medium sand / rocks
Schiller St Easement	933-204	OUT FALL	13	25.7	STO	Medium sand / rocks
	End of pipe		38-48	25.7	STO	3/4 Pipe - Water
Spaulding St		933-542			STO	
Spaulding St	933-542	933-543	38-48			3/4 Pipe - Water
Spaulding St	933-543	End of pipe	38-48		STO	3/4 Pipe - Water
Cathryn Ct	933-545	933-544	8		STO	3/4 Pipe - Water
paulding St	933-546	933-547	12		STO	Underwater
paulding St	933-547	933-551	12		STO	Underwater
paulding St	933-552	933-551	12		STO	Underwater
paulding St	933-551	933-553	12		STO	Underwater
NWater St	933-578	933-242	12	34.8	STO	Medium sand / rocks
NWater St	933-576	933-242	12	20.5	STO	Medium sand / rocks
N Water St	933-242	933-428	12	279.8	STO	Medium sand / rocks
NWater St	933-082	933-427	12	14.3	STO	Medium sand / rocks
N Water St	933-427	933-428	12	29.1	STO	Medium sand / rocks
I Water St	933-428	933-183	18	20.2	STO	Medium sand / rocks
I Water St	933-183	933-083	18	61.1	STO	Medium sand / rocks
I Water St	933-083	OUT FALL	18	110.8	STO	Medium sand / rocks
V Spaulding St	933-598	933-597	8		STO	Underwater
V Spaulding St	933-596	933-597	10	36.5	STO	Light grit
V Spaulding St	933-597	933-317	18		STO	Underwater
V Spaulding St	Ind of pipe (W	933-258	18	182.8	STO	Medium sand / rocks
V Spaulding St	933-258	933-257	18	27.6	STO	Medium sand / rocks
V Spaulding St	End of pipe (S)	933-258	18	16.0	STO	Medium sand / rocks
V Spaulding St	933-257	933-618	18	12.9	STO	Medium sand / rocks
V Spaulding St	933-618E	933-256	10	8.0	STO	Medium sand / rocks
V Spaulding St	933-618W	933-256	10	8.0	STO	Medium sand / rocks
V Spaulding St	End of pipe (N)		15	8.0	STO	Medium sand / rocks
V Spaulding St	End of pipe (W		15	42.5	STO	Medium sand / rocks
V Spaulding St	933-255	933-617	15	12.0	STO	Medium sand / rocks
· spanning st	933-617	933-256	15	26.3	STO	Medium sand / rocks
		933-250	13	305.6	STO	Medium sand / rocks
V Spaulding St	022_756		1 10	202.0	510	INCULUITI SALLU / TUUKS
V Spaulding St V Spaulding St	933-256		4 -	2F C	670	
V Spaulding St V Spaulding St V Spaulding St	933-605	933-253	15	25.6	STO	Medium sand / rocks
N Spaulding St N Spaulding St N Spaulding St N Spaulding St N Spaulding St			15 12 12	25.6 30.6 27.8	STO STO STO	

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

i.

W.O 2277

STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	<b>CLEAN METHOD</b>	AMOUNT & TYPE OF DEBRIS
W Spaulding St	933-601	933-602	15	37.9	STO	Medium sand / rocks
W Spaulding St	933-602	933-251	15	42.4	STO	Medium sand / rocks
W Spaulding St	933-251	933-250	18	135.7	STO	Medium sand / rocks
W Spaulding St	933-600	933-250	12	25.2	STO	Medium sand / rocks
W Spaulding St	933-599	933-250	12	6.5	STO	Medium sand / rocks
W Spaulding St	933-250	933-317	18	44.4	STO	Medium sand / rocks
Western Ave	804-200	804-670	12	23.5	STO	Medium sand / rocks
Western Ave/4th	804-561	804-560	30	206.2	STO	Light grit
Western Ave/4th	804-560	804-559	30		STO	Light grit
Western Ave/4th	804-559	804-558	30	180.4	STO	Light grit
Western Ave/4th	804-558	804-670	30		STO	Light grit
Western Ave/Third	804-1041	804-197	12	35.4	STO	Light grit
Nestern Ave/Third	804-198	804-1042	12	27.3	STO	Light grit
Western Ave/Third	804-197	804-1029	12	45.4	STO	Light grit
Western Ave/Third	804-1042	804-1030	12	45.0	STO	Light grit
Western Ave/Third	804-670	804-1030	21	39.4	STO	Light grit
Western Ave/Third	804-199	804-670	12	45.1	STO	Light grit
Western Ave/Third	804-1030	804-1029	21	50.0	STO	Light grit
W Leonard St	933-002	933-001	12	50.0	STO	Underwater
W Leonard St	933-558	933-557	12		STO	Underwater
W Leonard St	933-557	933-311	10		STO	Underwater
ames St	933-574	933-239	12	6.5	STO	Light grit
ames St	933-239	933-239	12	26.2	STO	Light grit
aBelle St	933-604	933-603	12	28.1	STO	Medium sand / rocks
aBelle St Easement	933-603	933-252	15	55.5	STO	Medium sand / rocks
aBelle St Easement				270.5		
	933-252	OUT FALL	15		STO	Medium sand / rocks
and St	933-560	933-561	12	40.6	STO	Medium sand / rocks
Sand St	933-561	933-559	15	38.2	STO	Medium sand / rocks
Sand St	933-559	OUT FALL	15	14.0	STO	Medium sand / rocks
Sand St	933-562	933-268	15	45.5	STO	Medium sand / rocks
Sand St	933-564	933-563	12		STO	Underwater
and St	533-563	OUT FALL	12		STO	Underwater
N. Leonard St	933-585	933-244	12	12.0	STO	Light sand
N. Leonard St	933-244	933-316	12		STO	Underwater
Clay St	933-587	933-586	12	30.0	STO	Medium sand / rocks
Clay St	933-588	933-245	12	44.7	STO	Medium sand / rocks
Clay St	933-589	MAINLINE TEE	12	4.0	STO	Medium sand / rocks
V Arcade Ave	933-575	933-241	12	32.5	STO	Medium sand / rocks
V Arcade Ave	933-241A	933-248	15	122.3	STO	Medium sand / rocks
V Arcade Ave	933-241	933-241A	15	176.7	STO	Medium sand / rocks
V Arcade Ave	933-595	MAINLINE TEE	12	10.0	STO	Medium sand / rocks
V Arcade Ave	933-593	933-248	12	12.0	STO	Medium sand / rocks
V Arcade Ave	933-594	933-248	12	33.0	STO	Medium sand / rocks
V Arcade Ave	933-248	OUT FALL	18	200.4	STO	Medium sand / rocks
Clay St	933-245	933-248	15	326.5	STO	Medium sand / rocks
Stone St	933-580	933-051	12	44.4	STO	Medium sand / rocks
dgewater Ct	933-584	933-583	12	35.0	STO	Medium sand / rocks
Edgewater Ct	933-583	933-581	12	50.5	STO	Medium sand / rocks
Edgewater Ct	933-582	933-581	12		STO	Medium sand / rocks
Edgewater Ct	933-581	933-243	15		STO	3/4 Pipe - Water
Edgewater Ct	933-243	933-579	15		STO	Underwater
Edgewater Ct	933-579	933-050	15		STO	Underwater
Aldi's Culvert	Inlet	809-019	84		STO	Medium sand / rocks
Church St	809-019	End of pipe	84	1	STO	Medium sand / rocks
Hart St	804-634	904-633	12	93.4	STO	Medium sand / rocks
iui i Ji	004-034	504-033	12	55.4	STO	Micululli Sallu / TUCKS

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

CL	Section 4 Hom D
Cit	Section 4, Item D.

STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	<b>CLEAN METHOD</b>	AMOUNT & TYPE OF DEBRIS
Kiewert St	934-466	934-219	12	8.0	STO	Medium sand / rocks
Kiewert St	934-219	934-218	12	323.5	STO	Medium sand / rocks
Kiewert St	934-464	934-218	12	21.6	STO	Medium sand / rocks
Kiewert St	934-465	934-218	12	6.0	STO	Medium sand / rocks
Kiewert St	934-218	934-224	12	290.6	STO	Medium sand / rocks
Bayberry Dr	934-459	934-461	12	54.0	STO	Medium sand / rocks
Bayberry Dr	934-461	934-216	12	4.0	STO	Medium sand / rocks
Bayberry Dr	934-460	934-216	12	27.0	STO	Medium sand / rocks
Bayberry Dr	934-216	934-153	15	194.1	STO	Medium sand / rocks
Bayberry Dr	934-153	934-217	15	311.3	STO	Medium sand / rocks
Bayberry Dr	934-463	934-217	12	29.6	STO	Medium sand / rocks
Bayberry Dr	934-462	934-217	12	3.0	STO	Medium sand / rocks
Bayberry Dr	934-217	934-479	15		STO	Medium sand / rocks
Bayberry Dr	934-478	934-479	12	32.5	STO	Medium sand / rocks
Bayberry Dr	934-479	934-225	15		STO	Medium sand / rocks
Bayberry Dr	934-480	934-225	12		STO	Medium sand / rocks
Terry Ln	810-184	810-184A	15		STO	Medium sand / rocks
Terry Ln	810-102	810-102B	15		STO	Medium sand / rocks
Terry Ln	810-102A	810-102B	12	4.0	STO	Medium sand / rocks
Terry Ln	810-102R	810-184A	15		STO	Medium sand / rocks
Sand St	SSLI - MH214	SSLI - MH213	15	1	STO	Medium sand / rocks
Sand St	SSL1 - CB288	SSL1 - CB289	15		STO	Medium sand / rocks
Sand St	SSLI - CB289	SSLI - MH213	15		STO	Medium sand / rocks
Sand St	SSLI - MH213	933-561	15		STO	Medium sand / rocks
Amber Ln	933-566	933-567	13	33.4	STO	Medium sand / rocks
Amber Ln	933-567	933-269	12	18.3	STO	Medium sand / rocks
Amber Ln	933-568	933-269	12	26.8	STO	Medium sand / rocks
	933-508	MH269A	12	4.0	STO	Medium sand / rocks
Amber Ln Market St	804-229A	804-570	12		STO	Medium sand / rocks
Market St	804-229A 804-570	804-570	18	85.4	STO	Medium sand / rocks
Market St	804-370	MAINLINE TEE			STO	Medium sand / rocks
Market St	804-231	MAINLINE TEE			STO	Medium sand / rocks
Market St	804-230	804-571	10		STO	Medium sand / rocks
Market St	804-233	804-571	12	22.3	STO	Medium sand / rocks
	804-232	804-571	12		STO	Medium sand / rocks
Market St Market St	804-371	804-569	13	37.0	STO	Medium sand / rocks
Market St	804-227	804-569	12	30.5	STO	Medium sand / rocks
Market St	804-220	804-568	12		STO	Medium sand / rocks
Market St	804-309	804-568	13		STO	Medium sand / rocks
	804-223		12	1		
Market St Market St		804-568	12		STO STO	Medium sand / rocks
	804-568	804-567	13			Medium sand / rocks
Market St	804-222	804-567			STO	Medium sand / rocks
Market St	804-223	804-222	12		STO	Medium sand / rocks
Milwaukee St	804-099	804-098	12		STO	Medium sand / rocks
S 4th St	804-1008	804-1007	12		STO	Medium sand / rocks
S 4th St	804-1007	804-511	12		STO	Medium sand / rocks
S 4th St	804-511	804-510	12		STO	Medium sand / rocks
S 4th St	804-303	804-510	12		STO	Medium sand / rocks
S 4th St	804-087	804-304	12		STO	Medium sand / rocks
S 4th St	804-510	804-506	12		STO	Medium sand / rocks
S 4th St	804-559	804-563	24		STO	Medium sand / rocks
Wisconsin St	804-507	804-304	24		STO	Medium sand / rocks
Wisconsin St	804-086	804-304	12		STO	Medium sand / rocks
Wisconsin St	804-304	804-506	24		STO	Medium sand / rocks
City Shop	804-606	804-605A	29x45		STO	Medium sand / rocks
City Shop	804-605A	804-605	29x45	147.5	STO	Medium sand / rocks

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

W.O 2277

City Shop         804-250         0UT FALL         22x63         STO         Medium sand / rocks           City Shop         804-256         804-591         12         82.0         STO         Medium sand / rocks           City Shop         804-057         804-951         12         82.0         STO         NO LINE           City Shop         804-957         804-951         12         STO         NO LINE           City Shop         804-951         804-953         12         STO         NO LINE           City Shop         804-672         804-053         12         STO         NO LINE           City Shop         804-053         0UT FALL         10         OT         TO         Medium sand / rocks           Market St / Styth         804-235A         804-1018         10         STO         Medium sand / rocks           Market St / Styth         804-235A         804-1018         12         13.5         STO         Medium sand / rocks           Market St / Styth         804-234         804-1018         12         13.5         STO         Medium sand / rocks           Market St / Styth         804-234         12         14.6         STO         Medium sand / rocks           Market St /	STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	<b>CLEAN METHOD</b>	AMOUNT & TYPE OF DEBRIS
City Shop         804-256         804-591         12         82.0         STO         Medium sand/rocks           City Shop         804-697         12         45.0         NO LINE           City Shop         804-591         12         45.0         NO LINE           City Shop         804-591         12         45.0         NO LINE           City Shop         804-692         804-693         12         STO         No LINE           City Shop         804-612         804-612         804-7018         806-66         STO         Medium sand / rocks           Market St / S 9th         804-214         804-1018         12         28.4         STO         Medium sand / rocks           Market St / S 9th         804-234         804-1018         12         15.5         STO         Medium sand / rocks           Market St / S 9th         804-671         804-1018         12         15.5         STO         Medium sand / rocks           Market St / S 9th         804-228         804-229A         12         16.6         STO         Medium sand / rocks           Market St / S 9th         804-228         804-229A         12         20.6         STO         Medium sand / rocks           Wisconsin St	City Shop	804-605	OUT FALL	29x45	48.1	STO	Medium sand / rocks
City Shop         804-057         12         STO         NOLINE           City Shop         804-057         804-591         12         63.0         STO         Medium sand / rocks           City Shop         804-672         12         16.0         STO         NoLINE           City Shop         804-672         12         STO         NoLINE           City Shop         804-673         OUT FALL         90.7         STO         Medium sand / rocks           Market St / S 9th         804-1018         806.6         STO         Medium sand / rocks           Market St / S 9th         804-236         804-1019         12         33.7         STO         Medium sand / rocks           Market St / S 9th         804-236         804-1019         12         13.3         STO         Medium sand / rocks           Market St / S 9th         804-229         12         1.6         STO         Medium sand / rocks           Market St / S 9th         804-229         804-229A         12         1.6         STO         Medium sand / rocks           Market St / S 9th         804-102         804-229A         12         1.6         STO         Medium sand / rocks           Wisconsin St         804-103         804-516<	City Shop	804-255	804-256	12	32.3	STO	Medium sand / rocks
City Shop         804-057         804-591         12         163.0         STO         Medium sand/rocks           City Shop         804-672         804-063         12         STO         No LINE           City Shop         804-672         804-063         12         STO         No LINE           City Shop         804-633         0UT FALL         10         90.7         STO         Medium sand/rocks           Market St / S 9th         804-234         804-1018         8         66.6         STO         Medium sand/rocks           Market St / S 9th         804-234         804-1018         12         28.4         STO         Medium sand/rocks           Market St / S 9th         804-234         804-1018         12         13.5         STO         Medium sand/rocks           Market St / S 9th         804-228         804-229A         12         16.6         STO         Medium sand/rocks           Market St / S 9th         804-228         804-229A         12         20.6         STO         Medium sand/rocks           Wisconsin St         804-106         804-515         12         21.9         STO         Medium sand/rocks           Wisconsin St         804-104         804-515         12 <t< td=""><td>City Shop</td><td>804-256</td><td>804-591</td><td>12</td><td>82.0</td><td>STO</td><td>Medium sand / rocks</td></t<>	City Shop	804-256	804-591	12	82.0	STO	Medium sand / rocks
City Shop         804-591         804-672         12         STO         NO LINE           City Shop         804-653         OUT FALL         10         90.7         STO         NO LINE           City Shop         804-053         OUT FALL         10         90.7         STO         Medium sand / rocks           Market Si / 5 9th         804-018         804-1018         12         28.4         STO         Medium sand / rocks           Market Si / 5 9th         804-234         804-1018         12         23.7         STO         Medium sand / rocks           Market Si / 5 9th         804-234         804-1013         12         33.7         STO         Medium sand / rocks           Market Si / 5 9th         804-234         804-234         12         12.6         STO         Medium sand / rocks           Market Si / 5 9th         804-224         804-229A         12         21.6         STO         Medium sand / rocks           Wisconsin St         804-1018         804-229A         12         21.6         STO         Medium sand / rocks           Wisconsin St         804-1018         804-224         804-229A         12         21.6         STO         Medium sand / rocks           Wisconsin St <t< td=""><td>City Shop</td><td>804-056</td><td>804-057</td><td>12</td><td></td><td>STO</td><td>NO LINE</td></t<>	City Shop	804-056	804-057	12		STO	NO LINE
City Shop         804-672         804-673         12         STO         NO LINE           City Shop         804-673         OUT FALL         10         90.7         STO         Medium sand / rocks           Market SJ / 5 9th         804-1018         804-1018         8         66.6         STO         Medium sand / rocks           Market SJ / 5 9th         804-234         804-1018         10         STO         NO LINE           Market SJ / 5 9th         804-235         804-1019         12         33.7         STO         Medium sand / rocks           Market SJ / 5 9th         804-671         804-671         23.5         STO         Medium sand / rocks           Market SJ / 5 9th         804-671         804-294         18         193.0         STO         Medium sand / rocks           Market SJ / 5 9th         804-228         804-229A         12         21.6         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-108         804-515         12	City Shop	804-057	804-591	12	163.0	STO	Medium sand / rocks
City Shop         804-053         OUT FALL         10         90.7         STO         Medium sand / rocks           Market SY / 5 9th         804-1018         804-0118         12         28.4         STO         Medium sand / rocks           Market SY / 5 9th         804-23A         804-1018         12         28.4         STO         Medium sand / rocks           Market SY / 5 9th         804-23A         804-1019         12         33.7         STO         Medium sand / rocks           Market SY / 5 9th         804-1019         804-671         12         S1.5         STO         Medium sand / rocks           Market SY / 5 9th         804-1018         804-223A         12         13.3         STO         Medium sand / rocks           Market SY / S 9th         804-223         804-223A         12         21.6         STO         Medium sand / rocks           Market SY / S 9th         804-223         804-223A         12         22.6         STO         Medium sand / rocks           Wisconsin St         804-105         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-103         804-515         12         82.2         STO         Medium sand / rocks	City Shop	804-591	804-672	12		STO	NO LINE
Market SY, / Sth         804-1018         804-2018         86-6.6         STO         Medium sand / rocks           Market SY, / Sth         804-235A         804-1018         10         STO         No LINE           Market SY, / Sth         804-235A         804-1019         12         33.7         STO         Medium sand / rocks           Market SY, / Sth         804-235         804-1019         12         33.7         STO         Medium sand / rocks           Market SY, / Sth         804-671         804-671         12         51.5         STO         Medium sand / rocks           Market SY, / Sth         804-671         804-729A         12         15.6         STO         Medium sand / rocks           Market SY, / Sth         804-671         804-729A         12         20.6         STO         Medium sand / rocks           Market SY, / Sth         804-106         804-516         12         22.9         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         24.0         T         STO         Medium sand / rocks           Wisconsin St         804-516         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St	City Shop	804-672	804-053	12		STO	NO LINE
Instruct St / S 9th         804-234         804-1018         12         28.4         STO         Medium sand / rocks           Market St / S 9th         804-235         804-1019         10         STO         NO LINE           Market St / S 9th         804-235         804-1019         12         33.7         STO         Medium sand / rocks           Market St / S 9th         804-671         804-6018         12         18.3         STO         Medium sand / rocks           Market St / S 9th         804-218         804-229A         12         16.5         STO         Medium sand / rocks           Market St / S 9th         804-228         804-229A         12         20.6         STO         Medium sand / rocks           Misconsin St         804-105         804-516         12         21.9         STO         Medium sand / rocks           Wisconsin St         804-516         804-516         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-516         804-106         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-515         804-507         12         8.2         STO         Medium sand / rocks           Wisconsin St         8	City Shop	804-053	OUT FALL	10	90.7	STO	Medium sand / rocks
Market SI / 5 9th         804-235.         804-1018         10         STO         NO LINE           Market SI / 5 9th         804-1019         12         33.7         STO         Medium sand / rocks           Market SI / 5 9th         804-671         804-711         12         51.5         STO         Medium sand / rocks           Market SI / 5 9th         804-671         804-711         12         51.5         STO         Medium sand / rocks           Market SI / 5 9th         804-229A         18         12.0.6         STO         Medium sand / rocks           Market SI / 5 9th         804-229A         12         20.6         STO         Medium sand / rocks           Wisconsin St         804-516         12         21.9         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-508         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         24.2         STO         Medium sand / rocks           Wisconsin St	Market St / S 9th	804-1018A	804-1018	8	66.6	STO	Medium sand / rocks
Market SI / 5 9th         804-235.         804-1018         10         STO         NO LINE           Market SI / 5 9th         804-1019         12         33.7         STO         Medium sand / rocks           Market SI / 5 9th         804-671         804-711         12         51.5         STO         Medium sand / rocks           Market SI / 5 9th         804-671         804-711         12         51.5         STO         Medium sand / rocks           Market SI / 5 9th         804-229A         18         12.0.6         STO         Medium sand / rocks           Market SI / 5 9th         804-229A         12         20.6         STO         Medium sand / rocks           Wisconsin St         804-516         12         21.9         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-508         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         24.2         STO         Medium sand / rocks           Wisconsin St	Market St / S 9th	804-234	804-1018	12	28.4	STO	Medium sand / rocks
Inderket St / S 9th         804-671         804-671         12         51.5         STO         Medium sand / rocks           Market St / S 9th         804-1018         804-229A         18.3         STO         Medium sand / rocks           Market St / S 9th         804-228         804-229A         12         21.6         STO         Medium sand / rocks           Market St / S 9th         804-228         804-229A         12         21.6         STO         Medium sand / rocks           Market St / S 9th         804-516         12         225.8         STO         Medium sand / rocks           Wisconsin St         804-106         804-516         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-106         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-104         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-508A         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-628         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-608		804-235A	804-1018	10		STO	NO LINE
Indextet St / S 9th         804-f21         804-1018         122         18.3         STO         Medium sand / rocks           Market St / S 9th         804-218         804-229A         18         193.0         STO         Medium sand / rocks           Market St / S 9th         804-228         804-229A         12         21.6         STO         Medium sand / rocks           Market St / S 9th         804-229         804-229A         12         20.6         STO         Medium sand / rocks           Wisconsin St         804-105         804-516         12         22.5         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-104         804-103         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-515         804-508         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-608         804-508         12         2.0         STO         Medium sand / rocks           Wisconsin St	Market St / S 9th	804-235	804-1019	12	33.7	STO	Medium sand / rocks
Interest St / S 9th         904-1018         804-229A         118         193.0         STO         Medium sand / rocks           Market St / S 9th         804-229         804-229A         12         21.6         STO         Medium sand / rocks           Market St / S 9th         804-229         804-229A         12         20.6         STO         Medium sand / rocks           Wisconsin St         804-105         804-516         12         225.8         STO         Medium sand / rocks           Wisconsin St         804-106         804-516         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-106         804-516         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-508A         24.2         STO         Medium sand / rocks           Wisconsin St         804-521         804-508         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-508	Market St / S 9th	804-1019	804-671	12	51.5	STO	Medium sand / rocks
Market St / S 9th         804-228         804-229         12         21.6         STO         Medium sand / rocks           Market St / S 9th         804-229         804-229         12         20.6         STO         Medium sand / rocks           Wisconsin St         804-105         804-516         12         22.8         STO         Medium sand / rocks           Wisconsin St         804-106         804-516         12         21.9         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-103         804-515         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-511         804-508         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-088         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-608         804-507         24         65.3         STO         Medium sand / rocks           Wisconsin St	Market St / S 9th	804-671	804-1018	12	18.3	STO	Medium sand / rocks
Market St / S 9th         804-228         804-229         12         21.6         STO         Medium sand / rocks           Market St / S 9th         804-229         804-229         12         20.6         STO         Medium sand / rocks           Wisconsin St         804-105         804-516         12         22.8         STO         Medium sand / rocks           Wisconsin St         804-106         804-516         12         21.9         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-103         804-515         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-511         804-508         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-088         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-608         804-507         24         65.3         STO         Medium sand / rocks           Wisconsin St	Market St / S 9th	804-1018	804-229A	18	193.0	STO	
Market St / S9th         804-229         804-229         12         20.6         STO         Medium sand / rocks           Th St         804-514         804-516         12         225.8         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-104         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-103         804-515         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-508         26.2.0         STO         Medium sand / rocks           Wisconsin St         804-089         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-608         804-507         12         135.4         STO         Medium sand / rocks           Wisconsin St         804-608         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / 54th         804-606	Market St / S 9th	804-228	804-229A	12	21.6	STO	
Wisconsin St         804-105         804-516         12         21.9         STO         Medium sand / rocks           Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-516         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-104         804-515         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-508         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-508         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / 5 4th         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / 5 4th         804-601	Market St / S 9th	804-229	804-229A	12	20.6	STO	Medium sand / rocks
Wisconsin St         804-106         804-515         12         40.7         STO         Medium sand / rocks           Wisconsin St         804-104         804-103         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-104         804-103         12         3.1.2         STO         Medium sand / rocks           Wisconsin St         804-103         804-515         12         2.8.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-508         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-608         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-608         804-507         24         65.3         STO         Medium sand / rocks           Clyman St / 5 4th         804-507         804-599         24         219.0         STO         Medium sand / rocks           Clyman St / 5 4th         804-601         12         13.5.4         STO         Medium sand / rocks           Clyman St / 5 4th         804-601         12 </td <td>7th St</td> <td>804-514</td> <td>804-516</td> <td>12</td> <td>225.8</td> <td>STO</td> <td>Medium sand / rocks</td>	7th St	804-514	804-516	12	225.8	STO	Medium sand / rocks
Wisconsin St         804-516         804-106         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-104         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-103         804-515         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-508         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         262.0         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-508         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-507         804-599         24         219.0         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-601	Wisconsin St	804-105	804-516	12	1	STO	
Wisconsin St         804-104         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-103         804-515         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-515         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-089         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-608         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-269         804-599         12         19.5         STO         Medium sand / rocks           Clyman St / S 4th         804-676         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-676         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th	Wisconsin St	804-106	804-515	12	40.7	STO	Medium sand / rocks
Wisconsin St         804-104         804-103         12         31.2         STO         Medium sand / rocks           Wisconsin St         804-103         804-515         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-515         804-515         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-089         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-608         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-269         804-599         12         19.5         STO         Medium sand / rocks           Clyman St / S 4th         804-676         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-676         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th	Wisconsin St	804-516	804-106	12	8.0	STO	Medium sand / rocks
Wisconsin St         804-103         804-515         12         28.2         STO         Medium sand / rocks           Wisconsin St         804-511         804-508A         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-521         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         12         20.3         STO         Medium sand / rocks           Wisconsin St         804-508         804-507         24         65.3         STO         Medium sand / rocks           Clyman St / S 4th         804-568         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-569         804-600         12         19.5         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / S 4th <td< td=""><td>Wisconsin St</td><td>804-104</td><td>804-103</td><td>12</td><td></td><td>STO</td><td>Medium sand / rocks</td></td<>	Wisconsin St	804-104	804-103	12		STO	Medium sand / rocks
Wisconsin St         804-515         804-508A         36         24.2         STO         Medium sand / rocks           Wisconsin St         804-521         804-515         36         262.0         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-089         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-088         804-507         24         65.3         STO         Medium sand / rocks           S Sth St         804-668         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-676         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-671         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / S 4th         804-601         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-601         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-601         12 <td></td> <td></td> <td></td> <td>12</td> <td></td> <td></td> <td></td>				12			
Wisconsin St         804-521         804-515         36         262.0         STO         Medium sand / rocks           Wisconsin St         804-508         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-089         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-088         804-507         24         65.3         STO         Medium sand / rocks           Sth St         804-508         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / 5 4th         804-597         804-599         24         219.0         STO         Medium sand / rocks           Clyman St / 5 4th         804-267         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / 5 4th         804-271         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / 5 4th         804-270         804-601         12         37.0         Medium sand / rocks           Clyman St / 5 3rd         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / 5 3rd				36			
Wisconsin St         804-508         24         472.6         STO         Medium sand / rocks           Wisconsin St         804-089         804-508         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-088         804-507         12         8.0         STO         Medium sand / rocks           Wisconsin St         804-508         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-668         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-667         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-271         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / S 4th         804-271         804-601         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-599         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601C		804-521		36	262.0	STO	
Wisconsin St         804-088         804-508         12         20.3         STO         Medium sand / rocks           S sth St         804-508         804-507         24         65.3         STO         Medium sand / rocks           S sth St         804-668         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-269         804-509         12         19.5         STO         Medium sand / rocks           Clyman St / S 4th         804-269         804-600         12         19.5         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-601         12         3.6         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-601         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-501         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         13.7.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         13.7.0         STO         Medium sand / rocks           Balley St / S 3rd			804-508	24		STO	
Wisconsin St         804-088         804-508         12         20.3         STO         Medium sand / rocks           Visconsin St         804-508         804-507         24         65.3         STO         Medium sand / rocks           S 5th St         804-668         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-269         804-509         12         215.5         STO         Medium sand / rocks           Clyman St / S 4th         804-676         804-600         12         135.0         STO         Medium sand / rocks           Clyman St / S 4th         804-676         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / S 4th         804-599         804-601         12         13.8         STO         Medium sand / rocks           Clyman St / S 4th         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601C         804-601         12         13.7.0         STO         Medium sand / rocks           Bailey St / S 3rd <td>Wisconsin St</td> <td>804-089</td> <td>804-508</td> <td>12</td> <td>8.0</td> <td>STO</td> <td>Medium sand / rocks</td>	Wisconsin St	804-089	804-508	12	8.0	STO	Medium sand / rocks
Wisconsin St         804-508         804-507         24         65.3         STO         Medium sand / rocks           S 5th St         804-668         804-507         12         135.4         STO         Medium sand / rocks           Clyman St / S 4th         804-597         804-599         24         219.0         STO         Medium sand / rocks           Clyman St / S 4th         804-269         804-600         12         19.5         STO         Medium sand / rocks           Clyman St / S 4th         804-271         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-599         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-601         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         13.7.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         13.7.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-211         804-21         12         13.7.0         STO         Medium sand / rocks           Bailey St / S 3r				12	20.3	STO	
S 5th St         804-668         804-507         12         135.4         S TO         Medium sand / rocks           Clyman St / S 4th         804-597         804-599         24         219.0         S TO         Medium sand / rocks           Clyman St / S 4th         804-269         804-600         12         19.5         S TO         Medium sand / rocks           Clyman St / S 4th         804-676         804-599         12         25.2         S TO         Medium sand / rocks           Clyman St / S 4th         804-271         804-601         12         35.0         S TO         Medium sand / rocks           Clyman St / S 4th         804-270         804-601         12         3.8         S TO         Medium sand / rocks           Clyman St / S 4th         804-601A         804-601C         12         13.8         S TO         Medium sand / rocks           Clyman St / S 3rd         804-601B         804-601C         12         13.7.0         S TO         Medium sand / rocks           Clyman St / S 3rd         804-601C         804-501         12         13.7.0         S TO         Medium sand / rocks           Bailey St / S 3rd         804-212         804-211         12         73.9         S TO         Medium sand / rocks							
Clyman St / S 4th         804-597         804-599         24         219.0         STO         Medium sand / rocks           Clyman St / S 4th         804-269         804-600         12         19.5         STO         Medium sand / rocks           Clyman St / S 4th         804-271         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-599         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-601         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601B         804-601C         12         13.7.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         29x45         258.5         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-21         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           S.Second St			804-507	12	135.4	STO	,
Clyman St / S 4th         804-269         804-600         12         19.5         STO         Medium sand / rocks           Clyman St / S 4th         804-676         804-599         12         25.2         STO         Medium sand / rocks           Clyman St / S 4th         804-271         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-599         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-599         804-600         24         27.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         12         13.7.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         29x45         258.5         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           S Second St <td< td=""><td></td><td></td><td>804-599</td><td>24</td><td></td><td></td><td></td></td<>			804-599	24			
Clyman St / S 4th         804-271         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-599         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-599         804-600         24         27.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601B         804-601C         12         13.7.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         137.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         137.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-212         804-211         12         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           S. Second St         804-276         804-278         12         20.4         STO         Medium sand / rocks		804-269	804-600	12		STO	Medium sand / rocks
Clyman St / S 4th         804-271         804-601         12         35.0         STO         Medium sand / rocks           Clyman St / S 4th         804-270         804-599         12         3.8         STO         Medium sand / rocks           Clyman St / S 4th         804-599         804-600         24         27.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601B         804-601C         12         27.2         STO         Medium sand / rocks           Clyman St / S 3rd         804-601C         804-601         12         137.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         137.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-211         12         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-604         12         200.4         STO         Medium sand / rocks           S. Second St         804-276         804-278         12         20.5         STO         Medium sand / rocks	Clyman St / S 4th	804-676	804-599	12	25.2	STO	Medium sand / rocks
Clyman St / S 4th         804-599         804-600         24         27.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601B         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601C         804-601         12         137.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         137.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-601         29x45         258.5         STO         Medium sand / rocks           Bailey St / S 3rd         804-212         804-211         12         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           Second St         804-276         804-604         12         15.0         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         34.0         STO         Medium sand / rocks           S. Second S	Clyman St / S 4th	804-271	804-601	12	1	STO	Medium sand / rocks
Clyman St / S 4th         804-599         804-600         24         27.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601B         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601C         804-601         12         137.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-601         804-601         12         137.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-601         804-61         12         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-211         12         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-276         804-604         12         200.4         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         24.0         STO         Medium sand / rocks	Clyman St / S 4th	804-270	804-599	12	3.8	STO	Medium sand / rocks
Clyman St / S 3rd         804-601A         804-601C         12         13.8         STO         Medium sand / rocks           Clyman St / S 3rd         804-601B         804-601C         12         27.2         STO         Medium sand / rocks           Clyman St / S 3rd         804-601C         804-601         12         137.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-600         804-601         12         137.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-212         804-211         12         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-212         80.4         12         8.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-204         12         200.4         STO         Medium sand / rocks           S. Second St         804-604         804-278         12         200.4         STO         Medium sand / rocks           S. Second St         804-604         804-278         12         26.5         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         34.0         STO         Medium sand / rocks	Clyman St / S 4th	804-599	804-600	24	27.0	STO	Medium sand / rocks
Clyman St / S 3rd         804-601B         804-601C         12         27.2         STO         Medium sand / rocks           Clyman St / S 3rd         804-601C         804-601         12         137.0         STO         Medium sand / rocks           Clyman St / S 3rd         804-600         804-601         29x45         258.5         STO         Medium sand / rocks           Bailey St / S 3rd         804-212         804-211         12         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-604         12         200.4         STO         Medium sand / rocks           S. second St         804-276         804-604         12         15.0         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         256.5         STO         Medium sand / rocks           S. Second St         804-278         804-606         15         24.2         STO         Medium sand / rocks		804-601A	804-601C	12		STO	
Clyman St / S 3rd804-600804-60129x45258.5STOMedium sand / rocksBailey St / S 3rd804-212804-2111273.9STOMedium sand / rocksBailey St / S 3rd804-211804-564128.0STOMedium sand / rocksBailey St / S 3rd804-211804-60412200.4STOMedium sand / rocksBailey St / S 3rd804-211804-6041215.0STOMedium sand / rocksS. Second St804-276804-6041215.0STOMedium sand / rocksS. Second St804-277804-27812256.5STOMedium sand / rocksS. Second St804-277804-2781234.0STOMedium sand / rocksS. Second St804-278804-6061524.2STOMedium sand / rocksS. Second St804-279804-6061533.7STOMedium sand / rocksS. Second St804-601804-60629x45238.0STOMedium sand / rocksS. Second St804-601804-60629x45238.0STOMedium sand / rocksWisconsin St804-161804-54321STONo LINEWisconsin St804-162804-543810.1STOMedium sand / rocksWisconsin St804-163804-5431237.0STOMedium sand / rocksWisconsin St804-163804-5431237.0STOMedium sand / rocksWi	Clyman St / S 3rd	804-601B	804-601C	12	27.2	STO	
Clyman St / S 3rd804-600804-60129x45258.5STOMedium sand / rocksBailey St / S 3rd804-212804-2111273.9STOMedium sand / rocksBailey St / S 3rd804-211804-564128.0STOMedium sand / rocksBailey St / S 3rd804-211804-60412200.4STOMedium sand / rocksBailey St / S 3rd804-211804-6041215.0STOMedium sand / rocksS. Second St804-276804-6041215.0STOMedium sand / rocksS. Second St804-277804-27812256.5STOMedium sand / rocksS. Second St804-277804-2781234.0STOMedium sand / rocksS. Second St804-278804-6061524.2STOMedium sand / rocksS. Second St804-279804-6061533.7STOMedium sand / rocksS. Second St804-601804-60629x45238.0STOMedium sand / rocksS. Second St804-601804-60629x45238.0STOMedium sand / rocksWisconsin St804-161804-54321STONo LINEWisconsin St804-162804-543810.1STOMedium sand / rocksWisconsin St804-163804-5431237.0STOMedium sand / rocksWisconsin St804-163804-5431237.0STOMedium sand / rocksWi	Clyman St / S 3rd	804-601C	804-601	12	137.0	STO	Medium sand / rocks
Bailey St / S 3rd         804-212         804-211         12         73.9         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-564         12         8.0         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-604         12         200.4         STO         Medium sand / rocks           Bailey St / S 3rd         804-211         804-604         12         200.4         STO         Medium sand / rocks           S. Second St         804-276         804-604         12         15.0         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         256.5         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         34.0         STO         Medium sand / rocks           S. Second St         804-278         804-606         15         24.2         STO         Medium sand / rocks           S. Second St         804-279         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-279         804-606         29x45         238.0         STO         Medium sand / rocks           Wiscons							
Bailey St / S 3rd804-211804-564128.0STOMedium sand / rocksBailey St / S 3rd804-211804-60412200.4STOMedium sand / rocksS. Second St804-276804-6041215.0STOMedium sand / rocksS. Second St804-604804-27812256.5STOMedium sand / rocksS. Second St804-277804-2781234.0STOMedium sand / rocksS. Second St804-277804-2781234.0STOMedium sand / rocksS. Second St804-279804-6061524.2STOMedium sand / rocksS. Second St804-601804-6061533.7STOMedium sand / rocksS. Second St804-601804-60629x45238.0STOMedium sand / rocksS. Second St804-601804-54321STOMedium sand / rocksWisconsin St804-161804-54321STOMedium sand / rocksWisconsin St804-162804-543810.1STOMedium sand / rocksWisconsin St804-163804-5431237.0STOMedium sand / rocksWisconsin St804-163804-5431237.0STOMedium sand / rocksWisconsin St804-163804-5431237.0STOMedium sand / rocksS 9th St804-163804-5431024.5STOMedium sand / rocks	Bailey St / S 3rd	804-212	804-211	12	73.9	STO	Medium sand / rocks
Bailey St / S 3rd         804-211         804-604         12         200.4         STO         Medium sand / rocks           S. Second St         804-276         804-604         12         15.0         STO         Medium sand / rocks           S. Second St         804-604         804-278         12         256.5         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         34.0         STO         Medium sand / rocks           S. Second St         804-278         804-606         15         24.2         STO         Medium sand / rocks           S. Second St         804-279         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-601         804-606         29x45         238.0         STO         Medium sand / rocks           S. Second St         804-601         804-606         29x45         238.0         STO         Medium sand / rocks           Wisconsin St         804-161         804-543         21         STO         NO LINE           Wisconsin St         804-162         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-160         <		804-211	804-564	12	8.0	STO	Medium sand / rocks
S. Second St         804-604         804-278         12         256.5         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         34.0         STO         Medium sand / rocks           S. Second St         804-278         804-606         15         24.2         STO         Medium sand / rocks           S. Second St         804-279         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-601         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-601         804-606         29x45         238.0         STO         Medium sand / rocks           Wisconsin St         804-545         804-543         21         STO         NO LINE           Wisconsin St         804-161         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543	Bailey St / S 3rd	804-211	804-604	12	200.4	STO	Medium sand / rocks
S. Second St         804-604         804-278         12         256.5         STO         Medium sand / rocks           S. Second St         804-277         804-278         12         34.0         STO         Medium sand / rocks           S. Second St         804-278         804-606         15         24.2         STO         Medium sand / rocks           S. Second St         804-279         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-601         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-601         804-606         29x45         238.0         STO         Medium sand / rocks           Wisconsin St         804-545         804-543         21         STO         NO LINE           Wisconsin St         804-161         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543		804-276	804-604	12	15.0	STO	Medium sand / rocks
S. Second St         804-277         804-278         12         34.0         STO         Medium sand / rocks           S. Second St         804-278         804-606         15         24.2         STO         Medium sand / rocks           S. Second St         804-279         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-279         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-601         804-606         29x45         238.0         STO         Medium sand / rocks           Wisconsin St         804-545         804-543         21         STO         NO LINE           Wisconsin St         804-161         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-160         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           S 9th St         804-524         804-543		804-604	804-278	12	1	STO	
S. Second St         804-278         804-606         15         24.2         STO         Medium sand / rocks           S. Second St         804-279         804-606         15         33.7         STO         Medium sand / rocks           S. Second St         804-601         804-606         29x45         238.0         STO         Medium sand / rocks           Wisconsin St         804-545         804-543         21         STO         NO LINE           Wisconsin St         804-161         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-160         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           S 9th St         804-524         804-543         24         STO         NO LINE	S. Second St	804-277	804-278	12	34.0		Medium sand / rocks
S. Second St         804-601         804-606         29x45         238.0         STO         Medium sand / rocks           Wisconsin St         804-545         804-543         21         STO         NO LINE           Wisconsin St         804-161         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-160         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           S 9th St         804-524         804-543         24         STO         NO LINE	S. Second St	804-278	804-606	15	24.2	STO	
S. Second St         804-601         804-606         29x45         238.0         STO         Medium sand / rocks           Wisconsin St         804-545         804-543         21         STO         NO LINE           Wisconsin St         804-161         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-160         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           S 9th St         804-524         804-543         24         STO         NO LINE	S. Second St	804-279	804-606	15	33.7	STO	Medium sand / rocks
Wisconsin St         804-545         804-543         21         STO         NO LINE           Wisconsin St         804-161         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-160         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           Wisconsin St         804-524         804-543         24         STO         No LINE				29x45			
Wisconsin St         804-161         804-543A         8         19.4         STO         Medium sand / rocks           Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-160         804-543A         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           S 9th St         804-524         804-543         24         STO         NO LINE	Wisconsin St	804-545	804-543				NO LINE
Wisconsin St         804-162         804-543A         8         10.1         STO         Medium sand / rocks           Wisconsin St         804-160         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           S 9th St         804-524         804-543         24         STO         NO LINE				8	19.4		Medium sand / rocks
Wisconsin St         804-160         804-543         12         37.0         STO         Medium sand / rocks           Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           S 9th St         804-524         804-543         24         STO         NO LINE							
Wisconsin St         804-163         804-543         10         24.5         STO         Medium sand / rocks           S 9th St         804-524         804-543         24         STO         NO LINE							
S 9th St 804-524 804-543 24 STO NO LINE							,

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	<b>CLEAN METHOD</b>	AMOUNT & TYPE OF DEBRIS
S 9th St	804-126	804-523	10	10.0	STO	Medium sand / rocks
S 9th St	804-669	MAINLINE TEE	10		STO	NO LINE
S 9th St	804-523	804-543	36	234.4	STO	Medium sand / rocks
Dodge St	804-134	804-526	12	6.0	STO	Medium sand / rocks
Wisconsin St	804-544	804-543A	21	305.1	STO	Medium sand / rocks
Wisconsin St	804-543A	804-543	36	45.4	STO	Medium sand / rocks
Wisconsin St	804-543	804-521	36	304.8	STO	Medium sand / rocks
Wisconsin St	804-113	804-114	12	25.2	STO	Medium sand / rocks
Wisconsin St	804-114	804-115	12	25.6	STO	Medium sand / rocks
Wisconsin St	804-115	804-116	12	27.5	STO	Medium sand / rocks
Wisconsin St	804-116	804-520	15		STO	Medium sand / rocks
Wisconsin St	804-122	804-121	12	29.8	STO	Medium sand / rocks
8th St	804-121	STUB	15		STO	NO LINE
8th St	804-121	804-120	12		STO	Medium sand / rocks
Wisconsin St	804-120	804-119	12	28.4	STO	Medium sand / rocks
Wisconsin St	804-119	804-520	12		STO	Medium sand / rocks
Wisconsin St	804-520	804-521	36		STO	Medium sand / rocks
S 7th St	804-100	804-514	12		STO	Medium sand / rocks
S 7th St	804-101	804-514	12	1	STO	Medium sand / rocks
S 7th St	804-102	804-514	12		STO	Medium sand / rocks
Clyman St	804-463	804-566	15		STO	Medium sand / rocks
Clyman St	804-221	804-220	12		STO	Medium sand / rocks
Clyman St	804-220	804-566	12		STO	Medium sand / rocks
Clyman St	804-566	804-595	18		STO	Medium sand / rocks
Clyman St	804-675	804-260	12		STO	Medium sand / rocks
Clyman St	804-260	804-595	12		STO	Medium sand / rocks
Clyman St	804-595	804-597	18		STO	Medium sand / rocks
Clyman St	804-263	804-261	12		STO	Medium sand / rocks
Clyman St	804-262A	804-262	12		STO	Medium sand / rocks
Clyman St	804-262	804-596	12		STO	Medium sand / rocks
Clyman St / 5th	804-268	804-598	12	-	STO	Medium sand / rocks
Clyman St / 5th	804-598	804-267	12		STO	Medium sand / rocks
Clyman St / 5th	804-266	804-597	12		STO	Medium sand / rocks
Clyman St / 5th	804-267	804-597	12		STO	Medium sand / rocks
Wisconsin St	804-546A	804-546	18		STO	Medium sand / rocks
11th St	804-169	804-170	12		STO	Medium sand / rocks
Western Ave	804-170	804-171	15	-	STO	Medium sand / rocks
Western Ave	804-171	804-549	15		STO	Medium sand / rocks
Western Ave	804-172	804-549	12	-	STO	Medium sand / rocks
Wisconsin St	804-167	804-546	10	1	STO	Medium sand / rocks
Wisconsin St	804-166	804-546	10		STO	Medium sand / rocks
S 10th St	804-123	804-124	10		STO	Medium sand / rocks
S 10th St	804-522	804-124	10		STO	Medium sand / rocks
S 10th St	804-165	804-164	10		STO	Medium sand / rocks
S 10th St	804-124	804-164	12		STO	Medium sand / rocks
S 10th St	804-164	804-546	12		STO	Medium sand / rocks
Wisconsin St	804-546	804-544	21		STO	Medium sand / rocks
S 10th St	804-519	804-519A	12		STO	Medium sand / rocks
S 10th St	804-519A	804-515A	12		STO	Medium sand / rocks
S 10th St	804-515A	804-519	12		STO	Medium sand / rocks
S 10th St	804-118	804-519	12		STO	Medium sand / rocks
S 10th St	804-117 804-519B	804-519A	12		STO	Medium sand / rocks
	804-5158	804-519A 804-746	12		STO	Medium sand / rocks
Clyman St	804-745	804-746	12		STO	Medium sand / rocks
<u>Clyman St</u> Clyman St	804-746	804-747	12		STO	Medium sand / rocks
			1			
Clyman St	804-465	804-464	12	317.0	STO	Medium sand / rocks

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

CL	Section 4, Item D.
Cit	Section 4, item D.

STREET NAME	START MH		MAP LENGTH	PIPE SIZE		AMOUNT & TYPE OF DEBRIS
Clyman St	804-983	804-984	12	37.6	STO	Medium sand / rocks
Clyman St	804-984	804-464	12	16.3	STO	Medium sand / rocks
Clyman St	804-982	804-464	12	38.6	STO	Medium sand / rocks
Clyman St	804-981	804-463	12	24.6	STO	Medium sand / rocks
Clyman St	804-464	804-463	15	264.1	STO	Medium sand / rocks
Western St / 2nd	804-910	MAINLINE TEE	12	40.0	STO	Medium sand / rocks
Western St / 2nd	804-911	804-910	12	57.1	STO	Medium sand / rocks
Western St / 2nd	804-912	MAINLINE TEE	12	22.1	STO	Medium sand / rocks
Western St / 2nd	804-1029	804-593	21	436.1	STO	Medium sand / rocks
Western St / 1st	804-257	804-593	12	45.2	STO	Medium sand / rocks
Western St / 1st	804-258	804-593	12	48.6	STO	Medium sand / rocks
Western St / 1st	804-593	804-592	21	59.6	STO	Medium sand / rocks
Western St / 1st	804-592A	804-592	12	6.0	STO	Medium sand / rocks
Western St / 1st	804-592	804-674	21	78.2	STO	Medium sand / rocks
Western St / 1st	804-674	804-673	21	120.0	STO	Medium sand / rocks
Cherry St	928-008	928-006	12	76.1	STO	Medium sand / rocks
Cherry St	928-007	928-006	12	25.5	STO STO	Medium sand / rocks
Cherry St	928-006	928-004	12	4.0	STO	Medium sand / rocks
Cherry St	928-004	928-005	8	4.0	STO	Medium sand / rocks
Cherry St	928-005	928-011	12	78.7	STO	Medium sand / rocks
Sand St	928-039	928-038	12	44.1	STO	Medium sand / rocks
N. Water St	928-046	928-024	12	22.2	STO	Medium sand / rocks
N. Water St	928-045N	928-024	12		STO	No Access
N. Water St	928-0455	928-024	12		STO	No Access
N. Water St	928-024	928-023	12	381.7	STO	Medium sand / rocks
N. Water St	928-022	928-023	15	85.7	STO	Medium sand / rocks
Amber Ln	928-010	928-011	12	40.3	STO	Medium sand / rocks
Amber Ln	928-011	928-025	12	189.0	STO	Medium sand / rocks
Amber Ln	928-025	928-028	12	21.5	STO	Medium sand / rocks
Water St Easement	928-023	928-026	18	218.3	STO	Medium sand / rocks
Water St Easement	928-026	928-027	18	197.1	STO	Medium sand / rocks
Water St Easement	928-027	928-028	18	60.6	STO	Medium sand / rocks
Amber Ln Easement	928-028	928-012	18	180.6	STO	Medium sand / rocks
Cherry St	928-009	928-003	12	43.1	STO	Medium sand / rocks
Cherry St	928-003	928-008	12	117.8	STO	Medium sand / rocks
Cherry St	End of pipe	928-008	12	54.1	STO	Medium sand / rocks
Amber Ln	933-269	933-269A	15	258.0	STO	Medium sand / rocks
Amber Ln	933-269A	933-270	15	33.5	STO	Medium sand / rocks
Clay St	933-238	933-237	12	173.2	STO	Medium sand / rocks
Clay St	933-573	933-237	12	4.0	STO	Medium sand / rocks
Clay St	933-237	933-236	12	14.8	STO	Medium sand / rocks
James St	933-565	933-236	12	29.0	STO	Medium sand / rocks
James St	933-571	933-236	12	17.7	STO	Medium sand / rocks
James St	933-572	MAINLINE TEE	12	20.6	STO	Medium sand / rocks
James St	933-270	933-315	18	349.3	STO	Medium sand / rocks
James St	933-569	933-314	8	27.2	STO	Medium sand / rocks
Silver Dr	933-556	928-040	12	56.6	STO	Medium sand / rocks
Silver Dr	928-040	933-555	12	50.0	STO	Medium sand / rocks
Silver Dr	933-554	933-555	12	34.3	STO	Medium sand / rocks
					STO	
Silver Dr	933-555	933-310	15	360.0		Medium sand / rocks
N Water St	928-041	928-021	12	17.9	STO	Medium sand / rocks
N Water St	928-042	928-021	12	15.0	STO	Medium sand / rocks
N Water St	928-021	928-022	12	288.5	STO	Medium sand / rocks
N Water St	928-044	928-022	12	22.8	STO	Medium sand / rocks
N Water St	928-043	928-022	12	11.0	STO	Medium sand / rocks
Wisconsin St	804-506A	804-1047	24	172.6	STO	Medium sand / rocks

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	CLEAN METHO	D AMOUNT & TYPE OF DEBRIS
Wisconsin St	804-506	804-506A	24	33.4	STO	Medium sand / rocks
Wisconsin St	804-085	804-1047	12	23.0	STO	Medium sand / rocks
Wisconsin St	804-901	804-1047	12	4.0	STO	Medium sand / rocks
Wisconsin St	804-1047	804-1033	36	56.8	STO	Medium sand / rocks
Wisconsin St	804-1033	804-1046	36	48.0	STO	Medium sand / rocks
Wisconsin St	804-1046	804-433	36	177.4	STO	Medium sand / rocks
Wisconsin St	804-1032	804-433	12	40.5	STO	Medium sand / rocks
Wisconsin St	804-902	804-433	12	26.2	STO	Medium sand / rocks
Wisconsin St	804-433	804-364	36	50.5	STO	Medium sand / rocks
Wisconsin St	804-903	804-364	12	6.0	STO	Medium sand / rocks
Wisconsin St	804-364	804-247	36	176.4	STO	Medium sand / rocks
Wisconsin St	804-1031	804-247	12	4.0	STO	Medium sand / rocks
Wisconsin St	804-247	804-586	24	34.1	STO	Medium sand / rocks
S. 1st St	Line North	804-586	33	172.6	STO	Medium sand / rocks
S. 1st St	804-586	804-587	33		STO	Medium sand / rocks
S. 1st St	804-587	804-588	33		STO	Medium sand / rocks
S. 1st St	804-249	804-588	12		STO	NO LINE
S. 1st St	804-250	MAINLINE TEE	12		STO	NO LINE
S. 1st St Easement	804-588	OUT FALL	33		STO	Underwater
Milwaukee St	804-1044	804-904	12	32.6	STO	Medium sand / rocks
Milwaukee St	804-904	804-1043	12	47.7	STO	Medium sand / rocks
Milwaukee St	804-906	804-1045	12	29.6	STO	Medium sand / rocks
Milwaukee St	804-905	804-1045	12	4.0	STO	Medium sand / rocks
Milwaukee St	804-1045	804-1043	12	54.3	STO	Medium sand / rocks
Milwaukee St	804-1043	804-434	12	18.6	STO	Medium sand / rocks
Milwaukee St	804-434	804-907	12	203.0	STO	Medium sand / rocks
Milwaukee St	804-909	804-907	12	28.7	STO	Medium sand / rocks
Milwaukee St	804-435	804-907	12	23.9	STO	Medium sand / rocks
Milwaukee St	804-907	804-1072	12	51.1	STO	Medium sand / rocks
Milwaukee St	804-908	804-1072	12	27.0	STO	Medium sand / rocks
Milwaukee St	804-1071	804-1072	12	26.4	STO	Medium sand / rocks
Milwaukee St	804-1072	804-590	12	216.0	STO	Medium sand / rocks
Milwaukee St	804-254A	804-590	12	26.5	STO	Medium sand / rocks
Milwaukee St	804-253	804-590	12	21.9	STO	Medium sand / rocks
Milwaukee St	804-252	804-590	12	21.5	STO	NO LINE
Milwaukee St	804-251	804-254	12	53.1	STO	Medium sand / rocks
Milwaukee St	804-254	804-590	12	39.6	STO	Medium sand / rocks
Milwaukee St	804-590	804-589	15	89.5	STO	Medium sand / rocks
Milwaukee St	804-589A	804-589	12		STO	Medium sand / rocks
Milwaukee St	804-589B	804-589	12	20.2	STO	Medium sand / rocks
Milwaukee St	804-589D	804-589C	12		STO	Medium sand / rocks
Milwaukee St	804-589	804-589C	15		STO	Medium sand / rocks
Milwaukee St	804-589C	804-589E	15		STO	Medium sand / rocks
College Ave	804-128	804-129	12		STO	Medium sand / rocks
College Ave	804-129	804-045	12		STO	Medium sand / rocks
College Ave	804-045	804-044	12		STO	Medium sand / rocks
College Ave	804-127	804-044	12	36.3	STO	Medium sand / rocks
Dodge St	804-044	804-168	12		STO	Medium sand / rocks
Dodge St	804-168	804-525	12		STO	Medium sand / rocks
Dodge St	804-525	804-527	24		STO	Medium sand / rocks
Dodge St	804-323	804-525	12		STO	Medium sand / rocks
Dodge St	804-132	804-525	12		STO	Medium sand / rocks
Dodge St	804-131	804-323 804-136A	12	24.3	STO	Medium sand / rocks
Dodge St	804-137	804-136A 804-136A	12		STO	Medium sand / rocks
Dodge St	804-136 804-136A	804-136A 804-527	12		STO	Medium sand / rocks
Dodge St	804-130A 804-130	804-527 804-527A	18		STO	Medium sand / rocks
Douge St	804-130	004-327A	12	14.5	310	IVIEUIUIII Saliu / TUCKS

<b>AQUALIS</b>
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	CLEAN METHO	D AMOUNT & TYPE OF DEBRIS
Dodge St	804-133	804-526	12	27.9	STO	Medium sand / rocks
Dodge St	804-135	804-527A	12	20.0	STO	Medium sand / rocks
Dodge St	804-526	804-523	24	264.7	STO	Medium sand / rocks
Dodge St	804-526	804-527	18	39.0	STO	Medium sand / rocks
Dodge St	804-138	804-527B	12	14.0	STO	Medium sand / rocks
Dodge St	804-138A	804-527B	12	20.2	STO	Medium sand / rocks
Dodge St	804-527	804-527A	24X36	35.5	STO	Medium sand / rocks
Dodge St	804-527A	804-527B	24X36	89.1	STO	Medium sand / rocks
Dodge St	804-527B	804-527C	24X36	106.8	STO	Medium sand / rocks
Dodge St	804-527C	804-527D	24X36	122.8	STO	Medium sand / rocks
Dodge St	804-527D	804-528	15		STO	Medium sand / rocks
S. 8th St	804-250	MAINLINE TEE	12	1.0	STO	Medium sand / rocks
S. 8th St	804-249	MAINLINE TEE		24.3	STO	Medium sand / rocks
S. 8th St	804-249	804-528	15	2.0	STO	Medium sand / rocks
S. 8th St	Line South	804-528	15	500.0	STO	Medium sand / rocks
Dodge St	804-528	804-529	15	302.7	STO	Medium sand / rocks
Dodge St	804-139	804-529	12	18.6	STO	Medium sand / rocks
S. 7th St	804-111	804-112	12	36.4	STO	Medium sand / rocks
S. 7th St	804-112	804-518	10		STO	Medium sand / rocks
S. 7th St	804-110	804-518	12	26.6	STO	Medium sand / rocks
S. 7th St	804-518	804-530	12	229.3	STO	Medium sand / rocks
S. 7th St	804-141	804-530	10		STO	Medium sand / rocks
S. 7th St	804-140	804-530	12	26.4	STO	Medium sand / rocks
S. 7th St	804-107	804-517	12	36.0	STO	Medium sand / rocks
S. 7th St	804-108	804-517	12	26.4	STO	Medium sand / rocks
S. 7th St	804-109	804-517	12	14.0	STO	Medium sand / rocks
S. 7th St	804-517	804-532	15		STO	Medium sand / rocks
S. 7th St	804-142	804-532	12	12.0	STO	Medium sand / rocks
S. 7th St	804-532	804-531	15	14.0	STO	Medium sand / rocks
S. 7th St	804-530	804-531	12	28.6	STO	Medium sand / rocks
Dodge St	804-529	804-531	24	29.2	STO	Medium sand / rocks
S. 6th St	804-097	804-513	12	36.6	STO	Medium sand / rocks
S. 6th St	804-096	804-513	12	16.7	STO	Medium sand / rocks
S. 6th St	804-513	804-535	12	274.7	STO	Medium sand / rocks
S. 6th St	804-146	804-535	12	36.8	STO	Medium sand / rocks
S. 6th St	804-145	804-535	12	14.7	STO	Medium sand / rocks
S. 6th St	804-535	804-534	12	14.3	STO	Medium sand / rocks
Market St / S 5th	804-567	804-542	15		STO	Medium sand / rocks
Market St / S 4th	804-159	804-542	12		STO	Medium sand / rocks
Market St / S 4th	804-542	804-253	15		STO	Medium sand / rocks
Market St / S 4th	804-157	804-253	12		STO	Medium sand / rocks
Market St / S 4th	804-1037	804-253	12	33.0	STO	No Line
Market St / S 4th	804-253	804-179	15	59.0	STO	Medium sand / rocks
Market St / S 4th	804-289	804-179	12		STO	Medium sand / rocks
Market St / S 4th	804-285	804-156	12		STO	Medium sand / rocks
Market St / S 4th	804-175	804-180	12		STO	Medium sand / rocks
Market St / S 4th	804-130	804-178	15		STO	Medium sand / rocks
Market St / S 4th	804-180	804-178	13		STO	Medium sand / rocks
Market St / S 4th	804-083	804-178	12		STO	Medium sand / rocks
Market St / S 4th	804-083	804-178	12		STO	Medium sand / rocks
Market St / S 4th	804-081	804-082	10		STO	Medium sand / rocks
Jefferson St / S 4th	804-082	804-084	10		STO	Medium sand / rocks
Jefferson St / S 4th	804-084	804-505 804 541	12		STO STO	Medium sand / rocks
Market St / S 4th	804-158	804-541	12		STO	Medium sand / rocks
Market St / S 4th	804-541	804-1070	12		STO STO	Medium sand / rocks
Market St / S 4th	804-1070	804-1069	12	41.5	STO	Medium sand / rocks

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

Section 4, Item D	
City	•

Idarket SY / 54th         804-1066         12         85.6         STO         Medium sand / rocks           Market SY / 54th         804-1066         12         17.5         STO         Medium sand / rocks           Market SY / 54th         804-1066         12         17.5         STO         Medium sand / rocks           Market SY / 53rd         804-1066         12         17.1         STO         Medium sand / rocks           Market SY / 53rd         804-1064         18         10.0         STO         Medium sand / rocks           Market SY / 53rd         804-1064         804-1067         12         20.3         STO         Medium sand / rocks           Market SY / 53rd         804-1062         12         12.6         STO         Medium sand / rocks           Market SY / 53rd         804-1062         12         12.0         STO         Medium sand / rocks           Market SY / 53rd         804-1062         12         12.0         STO         Medium sand / rocks           Market SY / 53rd         804-1062         12         12.0         STO         Medium sand / rocks           Market SY / 53rd         804-1084         102         43.0         STO         Medium sand / rocks           Market SY / 52rd	STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	CLEAN METHO	AMOUNT & TYPE OF DEBRIS
Marker Sty / 5 4th         804-1065         804-1066         12         27.5         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-1066         804-580         12         29.1         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-506         804-1066         12         29.1         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-1068         804-1067         12         20.3         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-1062         22         23.0         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-1062         12         23.0         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-1062         12         12.0         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-811         801-1081         81         17.1         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-811         804-1084         12         10.6         STO         Medium sand / rocks           Marker Sty / 5 3rd         804-812         804-1084         12         14.0         STO         Medium sand / rocks           Marker Sty / 5 3rd	Market St / S 4th	804-1069	840-1066A	12	85.6	STO	Medium sand / rocks
Market St / 5 4th         804-1056         804-500         12         29.1         STO         Medium sand / rocks           Market St / 5 3rd         804-500         804-500         15         37.1         STO         Medium sand / rocks           Market St / 5 3rd         804-1064         18         10.0         STO         Medium sand / rocks           Market St / 5 3rd         804-1067         12         20.3         STO         Medium sand / rocks           Market St / 5 3rd         804-1064         804-1062         24         23.0         STO         Medium sand / rocks           Market St / 5 3rd         804-1061         804-1062         12         12.0         STO         Medium sand / rocks           Market St / 5 3rd         804-4082         804-539         24         45.0         STO         Medium sand / rocks           Market St / 5 2nd         804-811         804-1083         12         46.0         STO         Medium sand / rocks           Market St / 5 2nd         804-813         804-813         10         10.6.6         STO         Medium sand / rocks           Market St / 5 2nd         804-814         804-1083         12         20.0         STO         Medium sand / rocks           Market St / 5 2nd <td>Market St / S 4th</td> <td>804-1066A</td> <td>804-1066</td> <td>12</td> <td>49.4</td> <td>STO</td> <td>Medium sand / rocks</td>	Market St / S 4th	804-1066A	804-1066	12	49.4	STO	Medium sand / rocks
Market SY, S ard         804-1066         804-2060         15         37.1         STO         Medium sand / rocks           Market SY, S ard         804-1068         804-1067         12         20.3         STO         Medium sand / rocks           Market SY, S ard         804-1064         804-1067         12         23.6         STO         Medium sand / rocks           Market SY, S ard         804-1061         804-1062         12         3.0         STO         Medium sand / rocks           Market SY, S ard         804-1061         804-1062         12         3.0         STO         Medium sand / rocks           Market SY, S ard         804-1062         804-1062         12         3.0         STO         Medium sand / rocks           Market SY, S ard         804-1161         804-1082         14         4.6.         STO         Medium sand / rocks           Market SY, S and         804-811         804-1084         12         3.4.3         STO         Medium sand / rocks           Market SY, S and         804-812         804-1084         12         3.4.3         STO         Medium sand / rocks           Market SY, S and         804-1079         804-1079         18         5.10         Medium sand / rocks           <	Market St / S 4th	804-1065	804-1066	12	17.5	STO	Medium sand / rocks
Market St, / S ard         804-506         804-1064         18         10.0         STO         Medium sand / rocks           Market St, / S ard         804-1064         804-1067         12         23.6         STO         Medium sand / rocks           Market St, / S ard         804-1063         804-1062         12         23.6         STO         Medium sand / rocks           Market St, / S ard         804-1063         804-1062         12         12.0         STO         Medium sand / rocks           Market St, / S ard         804-1061         804-1062         12         36.0         STO         Medium sand / rocks           Market St, / S ard         804-1062         804-539         24         48.2         STO         Medium sand / rocks           Market St, / S and         804-118         804-111         8         117.1         STO         Medium sand / rocks           Market St, / S and         804-4184         804-1084         12         48.6         STO         Medium sand / rocks           Market St, / S and         804-41084         804-1083         12         20.0         STO         Medium sand / rocks           Market St, / S and         804-1079         804-1084         12         20.0         STO         Medium sand	Market St / S 4th	804-155	804-1066	12	29.1	STO	Medium sand / rocks
Market SY, 5 ard         804-1068         804-1067         12         20.3         STO         Medium sand / rocks           Market SY, 5 ard         804-1064         804-1062         24         23.0.2         STO         Medium sand / rocks           Market SY, 5 ard         804-1063         804-1062         12         12.0.         STO         Medium sand / rocks           Market SY, 5 ard         804-1062         804-1062         12         36.0         STO         Medium sand / rocks           Market SY, 5 ard         804-1062         804-339         24         48.2         STO         Medium sand / rocks           Market SY, 5 ard         804-811         804-1083         12         46.0         STO         Medium sand / rocks           Market SY, 5 and         804-811         804-1084         12         34.3         STO         Medium sand / rocks           Market SY, 5 and         804-1084         804-1084         12         30.5         STO         Medium sand / rocks           Market SY, 5 and         804-1079A         18         80.1         17         Medium sand / rocks           Market SY, 5 and         804-1079A         18         69.1         STO         Medium sand / rocks           Market SY, 5 and	Market St / S 3rd	804-1066	804-540	15	37.1	STO	Medium sand / rocks
Market St, / S ard         804-1564         804-1067         12         25.6         STO         Medium sand / nocks           Market St, / S ard         804-1063         804-1062         12         23.0.2         STO         Medium sand / nocks           Market St, / S ard         804-1061         804-1062         12         12.0         STO         Medium sand / nocks           Market St, / S ard         804-1062         804-339         24         48.2         STO         Medium sand / nocks           Market St, / S and         804-1061         804-339         24         48.2         STO         Medium sand / nocks           Market St, / S and         804-329         804-811         81.11/1         STO         Medium sand / nocks           Market St, / S and         804-812         804-1084         12         108.6         STO         Medium sand / nocks           Market St, / S and         804-41084         12         8.0         STO         Medium sand / nocks           Market St, / S and         804-1079A         804-1083         12         20.0         STO         Medium sand / nocks           Market St, / S and         804-1079A         804-1086         804-1079         18         15.10         Medium sand / nocks	Market St / S 3rd	804-540	804-1064	18	10.0	STO	Medium sand / rocks
Market SJ, / S ard         840-1064         804-1062         24         230.2         STO         Medium sand / rocks           Market SJ, / S ard         804-1061         804-1062         12         2.6.0         STO         Medium sand / rocks           Market SJ, / S ard         804-1062         804-339         24         48.2.         STO         Medium sand / rocks           Market SJ, / S ard         804-1302         804-831         804-811         STO         Medium sand / rocks           Market SJ, / S and         804-831         804-1083         12         46.0         STO         Medium sand / rocks           Market SJ, / S and         804-831         804-1083         12         46.0         STO         Medium sand / rocks           Market SJ, / S and         804-812         804-1084         12         8.0         STO         Medium sand / rocks           Market SJ, / S and         804-1079A         804-1079A         18         15.1         STO         Medium sand / rocks           Market SJ, / S and         804-1079A         804-1079A         18         15.0         STO         Medium sand / rocks           Market SJ, / S and         804-1079A         804-1079         12         3.0         STO         Medium sand / rocks	Market St / S 3rd	804-1068	804-1067	12	20.3	STO	Medium sand / rocks
Market St, / S ard         804-1063         804-2062         12         12.0         STO         Medium sand / rocks           Market St, / S ard         804-1061         804-3062         12         36.0         STO         Medium sand / rocks           Market St, / S ard         804-333         804-811         811-71.1         STO         Medium sand / rocks           Market St, / S and         804-333         804-811         801-2083         12         46.0         STO         Medium sand / rocks           Market St, / S and         804-392         804-1084         12         34.3         STO         Medium sand / rocks           Market St, / S and         804-303         804         12         34.3         STO         Medium sand / rocks           Market St, / S and         804-1084         804-1083         12         20.0         STO         Medium sand / rocks           Market St, / S and         804-1079         804-1079         18         15.1         STO         Medium sand / rocks           Market St, / S and         804-1079         804-1079         18         15.1         STO         Medium sand / rocks           Market St, / S and         804-1079         804-1079         13         10         STO         Medium sand	Market St / S 3rd	804-154	804-1067	12	25.6	STO	Medium sand / rocks
Market St, / S ard         804-1063         804-2062         12         12.0         STO         Medium sand / rocks           Market St, / S ard         804-1061         804-3062         12         36.0         STO         Medium sand / rocks           Market St, / S ard         804-333         804-811         811-71.1         STO         Medium sand / rocks           Market St, / S and         804-333         804-811         801-2083         12         46.0         STO         Medium sand / rocks           Market St, / S and         804-392         804-1084         12         34.3         STO         Medium sand / rocks           Market St, / S and         804-303         804         12         34.3         STO         Medium sand / rocks           Market St, / S and         804-1084         804-1083         12         20.0         STO         Medium sand / rocks           Market St, / S and         804-1079         804-1079         18         15.1         STO         Medium sand / rocks           Market St, / S and         804-1079         804-1079         18         15.1         STO         Medium sand / rocks           Market St, / S and         804-1079         804-1079         13         10         STO         Medium sand	Market St / S 3rd	840-1064	804-1062	24	230.2	STO	Medium sand / rocks
Indextet St, / S and         804-1062         804-339         24         48.2         TO         Medium sand / rocks           Market St, / S and         804-393         804-811         801-108         117.1         STO         Medium sand / rocks           Market St, / S and         804-392         804-1084         12         46.0         STO         Medium sand / rocks           Market St, / S and         804-392         804-1084         12         34.3         STO         Medium sand / rocks           Market St, / S and         804-1084         12         34.3         STO         Medium sand / rocks           Market St, / S and         804-1084         12         20.0         STO         Medium sand / rocks           Market St, / S and         804-1029         12         44.6         STO         Medium sand / rocks           Market St, / S and         804-1079         18         151.0         STO         Medium sand / rocks           Market St, / S and         804-1079         804-1079         12         4.0         STO         Medium sand / rocks           Market St, / S and         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St, / S and         804-1088	Market St / S 3rd	804-1063	804-1062	12	12.0	STO	Medium sand / rocks
Inderket St, / S 2nd         804-1062         804-539         24         48.2         STO         Medium sand / rocks           Market St, / S 2nd         804-811         804-1083         12         46.0         STO         Medium sand / rocks           Market St, / S 2nd         804-811         804-1084         12         108.6         STO         Medium sand / rocks           Market St, / S 2nd         804-821         804-1084         12         38.3         STO         Medium sand / rocks           Market St, / S 2nd         804-813         804-1084         12         38.3         STO         Medium sand / rocks           Market St, / S 2nd         804-1084         804-1083         12         20.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1029         804-1029         18         69.1         STO         Medium sand / rocks           Market St, / S 2nd         804-1029         804-1029         12         3.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1028         804-1029         12         3.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1080         804-1029         12         4.0         STO         Medium sand	Market St / S 3rd	804-1061	804-1062	12	36.0	STO	Medium sand / rocks
Market St / S 2nd         804-392         804-1083         12         46.0         STO         Medium sand / rocks           Market St / S 2nd         804-392         804-1084         12         108.6         STO         Medium sand / rocks           Market St / S 2nd         804-4813         804-1084         12         34.3         STO         Medium sand / rocks           Market St / S 2nd         804-4814         804-1084         12         8.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         12         44.6         STO         Medium sand / rocks           Market St / S 2nd         804-1079         804-1079         18         151.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         12         31.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         12         31.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1079         12         31.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1087         36.2         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1084	Market St / S 3rd	804-1062	804-539	24	48.2	STO	Medium sand / rocks
Market St, / S 2nd         804-392         804-1084         12         108.6         STO         Medium sand / rocks           Market St, / S 2nd         804-881         804-1084         12         34.3         STO         Medium sand / rocks           Market St, / S 2nd         804-1084         12         34.3         STO         Medium sand / rocks           Market St, / S 2nd         804-1084         804-1084         12         20.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1084         804-1082         12         44.6         STO         Medium sand / rocks           Market St, / S 2nd         804-1079         804-1082         12         44.6         STO         Medium sand / rocks           Market St, / S 2nd         804-1079         804-1079         12         31.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1086         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-1087         804-1090         36         128.2         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-1088         36         44.0         STO         Medium sand / rocks	Market St / S 2nd	804-393	804-811	8	117.1	STO	Medium sand / rocks
Market St, / S 2nd         804-392         804-1084         12         108.6         STO         Medium sand / rocks           Market St, / S 2nd         804-812         804-1084         12         34.3         STO         Medium sand / rocks           Market St, / S 2nd         804-1084         804-1084         12         8.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1084         804-1082         12         20.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1079         12         44.6         STO         Medium sand / rocks           Market St, / S 2nd         804-1079         12         41.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1079         12         31.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St, / S 2nd	Market St / S 2nd	804-811	804-1083	12	46.0	STO	Medium sand / rocks
Market St / S 2nd         804-812         804-1084         12         34.3         STO         Medium sand / rocks           Market St / S 2nd         804-1084         12         8.0         STO         Medium sand / rocks           Market St / S 2nd         804-1084         804-1082         12         20.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079A         804-1079         18         69.1         STO         Medium sand / rocks           Market St / S 2nd         804-1079         804-1079         18         15.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         12         31.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1087         36         25.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1087         36         12.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816 <t< td=""><td></td><td>804-392</td><td>804-1084</td><td>12</td><td>108.6</td><td>STO</td><td>Medium sand / rocks</td></t<>		804-392	804-1084	12	108.6	STO	Medium sand / rocks
Image         State         State <tt< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td>804-812</td><td>804-1084</td><td></td><td></td><td></td><td></td></tt<>	· · · · · · · · · · · · · · · · · · ·	804-812	804-1084				
Market St / S 2nd         804-1083         112         20.0         STO         Medium sand / rocks           Market St / S 2nd         804-814         804-1082         112         44.6         STO         Medium sand / rocks           Market St / S 2nd         804-1079         804-1079         18         151.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         804-1079         18         151.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         12         31.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1087         36         25.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1081         36         44.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         804-1088         36         44.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-318         804-316         12         15.0         Medium sand / rocks           Jefferson St / S 1st </td <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>804-1084</td> <td>12</td> <td>8.0</td> <td>STO</td> <td></td>	· · · · · · · · · · · · · · · · · · ·		804-1084	12	8.0	STO	
Market St / S 2nd         804-1082         12         44.6         STO         Medium sand / rocks           Market St / S 2nd         804-1079A         18         69.1         STO         Medium sand / rocks           Market St / S 2nd         804-1079         804-1079         18         151.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         804-1079         12         31.0         STO         Medium sand / rocks           Market St / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1088         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         36         25.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         36         34.1         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1084         804         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1083         804-316         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-1083				12	20.0		Medium sand / rocks
Market St / S 2nd         804-1079A         18         69.1         STO         Medium sand / rocks           Market St / S 2nd         804-1079         804-1079         18         151.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         12         31.0         STO         Medium sand / rocks           Market St / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1086         804-1087         36         25.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1087         36         25.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1087         36         24.1         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1081         804-816         12         15.0         Medium sand / rocks           Jefferson St / S 1ad         804-1081         804-237         12         15.0         Medium sand / rocks           Jefferson St / S 1st         804-574         18 </td <td>Market St / S 2nd</td> <td>804-814</td> <td></td> <td>12</td> <td></td> <td></td> <td></td>	Market St / S 2nd	804-814		12			
Market St / S 2nd         804-1079         18         151.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         804-1088         18         32.0         STO         Medium sand / rocks           Market St / S 2nd         804-1078         804-1079         12         31.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1087         36         25.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-1083         804-327         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-326         804-327         12         54.0         STO         Medium sand / rocks	· · · · · · · · · · · · · · · · · · ·	804-1082	804-1079A	18		STO	
Market St / S 2nd         804-1079         804-1088         18         32.0         STO         Medium sand / rocks           Market St / S 2nd         804-1079         12         31.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1090         36         128.2         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1081         31.1         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         122         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         804-1088         36         44.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-236         804-237         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-574         12         14.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-							
Market St, / S 2nd         804-1080         804-1079         12         31.0         STO         Medium sand / rocks           Market St, / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-1086         804-1087         804-1090         36         128.2         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-817         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-816         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-816         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St, / S 2nd         804-1083         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St, / S 1st         804-236         804-237         12         5.0         STO         Medium sand / rocks           Jefferson St, / S 1st         804-574         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St, / S 1st         804-574         804-573         24         34.9	· · · · · · · · · · · · · · · · · · ·	804-1079					
Market St / S 2nd         804-1078         804-1079         12         4.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1087         804-1087         36         25.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1090         OUT FALL         36         34.1         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         804-1088         36         44.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-573         12         14.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         24         79.7         STO         Medium sand / rocks							
Jefferson St / S 2nd         804-1086         804-1087         36         25.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1090         36         128.2         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1090         OUT FALL         36         34.1         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         804-1088         36         44.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-574         12         14.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-189	· · · · · · · · · · · · · · · · · · ·	_		12			· · · · · · · · · · · · · · · · · · ·
Jefferson St / S 2nd         804-1087         804-1090         36         128.2         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1090         OUT FALL         36         34.1         STO         Medium sand / rocks           Jefferson St / S 2nd         804-817         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         804-1088         36         44.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-573         12         4.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st <td>· · ·</td> <td>_</td> <td></td> <td>36</td> <td></td> <td></td> <td></td>	· · ·	_		36			
Jefferson St / S 2nd         804-1090         OUT FALL         36         34.1         STO         Medium sand / rocks           Jefferson St / S 2nd         804-817         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         804-1088         36         44.0         STO         Medium sand / rocks           Jefferson St / S 1nd         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-1083         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-236         804-237         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-574         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-188         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-189         24         79.7         STO         Mediu	•	_					
Jefferson St / S 2nd         804-817         804-816         12         21.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-816         804-1088         36         44.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1059         804-816         36         181.5         STO         Medium sand / rocks           Jefferson St / S 1st         804-1083         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-236         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-574         12         14.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         24         34.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-188         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-108         804-576         12         17.0         STO         Medium sand / rocks	•	_					
Jefferson St / S 2nd         804-816         804-1088         36         44.0         STO         Medium sand / rocks           Jefferson St / S 2nd         804-1059         804-816         36         181.5         STO         Medium sand / rocks           Jefferson St / S 1st         804-1083         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-236         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-574         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         24         34.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-046         24         26.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-576         12         17.0         STO         Medium sand / rocks							
Jefferson St / S 2nd         804-1059         804-816         36         181.5         STO         Medium sand / rocks           Jefferson St / S 1st         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-1083         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-574         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-573         24         34.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-238         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-188         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-242         26.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-108         804-576         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks							
Jefferson St / S 2nd         804-1081         804-816         12         15.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-1083         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-574         12         14.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-574         804-573         24         34.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-238         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-046         24         26.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-241         804-576         12         12.1         STO         Medium sand / rocks </td <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	•						
Jefferson St / S 1st         804-1083         804-574         18         238.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-236         804-237         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-574         12         14.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-238         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-188         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-046         OUT FALL         24         19.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-256         804-1086         36         38.3         STO         Medium	•					STO	
Jefferson St / S 1st         804-236         804-237         12         52.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-237         804-574         12         14.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         24         34.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-188         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-973         802         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-976         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-576         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1086         36         38.3         STO         Medium sand / rocks	•					STO	
Jefferson St / S 1st         804-237         804-574         12         14.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-574         804-573         24         34.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-238         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-189         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-46         24         26.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-576         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1060         36         74.0         STO         Medium	•		804-237	12	52.9	STO	
Jefferson St / S 1st         804-574         804-573         24         34.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-238         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-188         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-046         24         26.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-046         OUT FALL         24         19.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1086         36         122.5         STO         Mediu	•			12			
Jefferson St / S 1st         804-238         804-573         12         6.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-573         804-188         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-046         24         26.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-576         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-576         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505A         804-1060         36         74.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-152         804-1060         12         22.2         STO         Medi				24	34.9		Medium sand / rocks
Jefferson St / S 1st         804-573         804-188         24         29.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-188         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-046         24         26.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-046         OUT FALL         24         19.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-046         OUT FALL         24         19.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-200         804-576         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505A         804-1080         36         122.5         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         36         74.0         STO         Medium sand / rocks	Jefferson St / S 1st	804-238	804-573	12	6.0	STO	
Jefferson St / S 1st         804-188         804-189         24         79.7         STO         Medium sand / rocks           Jefferson St / S 1st         804-189         804-046         24         26.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-046         OUT FALL         24         19.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-046         OUT FALL         24         19.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-200         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-576         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1060         36         74.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-152         804-1060         12         22.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-152         804-1060         12         19.2         STO         Med	Jefferson St / S 1st	804-573		24		STO	Medium sand / rocks
Jefferson St / S 1st         804-046         OUT FALL         24         19.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-576         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-241         804-576         12         21.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-576         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-505A         36         122.5         STO         Medium sand / rocks           Jefferson St / S 1st         804-505A         804-1060         12         22.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-152         804-1060         12         19.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO <t< td=""><td>Jefferson St / S 1st</td><td>804-188</td><td>804-189</td><td>24</td><td>79.7</td><td>STO</td><td>Medium sand / rocks</td></t<>	Jefferson St / S 1st	804-188	804-189	24	79.7	STO	Medium sand / rocks
Jefferson St / S 1st         804-046         OUT FALL         24         19.9         STO         Medium sand / rocks           Jefferson St / S 1st         804-1088         804-576         36         208.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-240         804-576         12         17.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-241         804-576         12         21.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-576         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-505A         36         122.5         STO         Medium sand / rocks           Jefferson St / S 1st         804-505A         804-1060         12         22.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-152         804-1060         12         19.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO <t< td=""><td>Jefferson St / S 1st</td><td>804-189</td><td>804-046</td><td>24</td><td>26.2</td><td>STO</td><td>Medium sand / rocks</td></t<>	Jefferson St / S 1st	804-189	804-046	24	26.2	STO	Medium sand / rocks
Jefferson St / S 1st804-240804-5761217.0STOMedium sand / rocksJefferson St / S 1st804-241804-5761221.2STOMedium sand / rocksJefferson St / S 1st804-576804-10863638.3STOMedium sand / rocksJefferson St / S 1st804-505804-505A36122.5STOMedium sand / rocksJefferson St / S 1st804-505A804-10603674.0STOMedium sand / rocksJefferson St / S 1st804-505A804-10601222.2STOMedium sand / rocksJefferson St / S 1st804-153804-10601219.2STOMedium sand / rocksJefferson St / S 1st804-152804-10601219.2STOMedium sand / rocksJefferson St / S 1st804-1060804-5393654.2STOMedium sand / rocksJefferson St / S 1st804-1060804-5393629.2STOMedium sand / rocksJefferson St / S 1st804-095804-0941237.5STOMedium sand / rocksSpring St804-093804-0901237.9STOMedium sand / rocksSpring St804-090804-5091217.1STOMedium sand / rocksSpring St804-092804-0911234.1STOMedium sand / rocksSpring St804-091804-5091247.9STOMedium sand / rocks		804-046	OUT FALL	24	19.9	STO	
Jefferson St / S 1st804-241804-5761221.2STOMedium sand / rocksJefferson St / S 1st804-576804-10863638.3STOMedium sand / rocksJefferson St / S 1st804-505804-505A36122.5STOMedium sand / rocksJefferson St / S 1st804-505A804-10603674.0STOMedium sand / rocksJefferson St / S 1st804-505A804-10601222.2STOMedium sand / rocksJefferson St / S 1st804-153804-10601222.2STOMedium sand / rocksJefferson St / S 1st804-152804-10601219.2STOMedium sand / rocksJefferson St / S 1st804-1060804-5393654.2STOMedium sand / rocksJefferson St / S 1st804-1060804-5393629.2STOMedium sand / rocksJefferson St / S 1st804-095804-0941237.5STOMedium sand / rocksSpring St804-093804-0901237.9STOMedium sand / rocksSpring St804-090804-5091217.1STOMedium sand / rocksSpring St804-092804-0911234.1STOMedium sand / rocksSpring St804-091804-5091247.9STOMedium sand / rocksSpring St804-091804-5091247.9STOMedium sand / rocks	Jefferson St / S 1st	804-1088	804-576	36	208.0	STO	Medium sand / rocks
Jefferson St / S 1st         804-576         804-1086         36         38.3         STO         Medium sand / rocks           Jefferson St / S 1st         804-505         804-505A         36         122.5         STO         Medium sand / rocks           Jefferson St / S 1st         804-505A         804-1060         36         74.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-153         804-1060         12         22.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         12         12.2.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         12         19.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1059         36         29.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-095         804-094         12         37.5         STO         Medium sand / rocks           Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St	Jefferson St / S 1st	804-240	804-576	12	17.0	STO	Medium sand / rocks
Jefferson St / S 1st         804-505         804-505A         36         122.5         STO         Medium sand / rocks           Jefferson St / S 1st         804-505A         804-1060         36         74.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-153         804-1060         12         22.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-152         804-1060         12         19.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-095         804-1059         36         29.2         STO         Medium sand / rocks           Spring St         804-095         804-094         12         37.5         STO         Medium sand / rocks           Spring St         804-090         804-509         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks <td>Jefferson St / S 1st</td> <td>804-241</td> <td>804-576</td> <td>12</td> <td>21.2</td> <td>STO</td> <td>Medium sand / rocks</td>	Jefferson St / S 1st	804-241	804-576	12	21.2	STO	Medium sand / rocks
Jefferson St / S 1st         804-505A         804-1060         36         74.0         STO         Medium sand / rocks           Jefferson St / S 1st         804-153         804-1060         12         22.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-152         804-1060         12         19.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-090         804-539         36         29.2         STO         Medium sand / rocks           Spring St         804-095         804-094         12         37.5         STO         Medium sand / rocks           Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-092         804-091         12         34.1         STO         Medium sand / rocks           Spr	Jefferson St / S 1st	804-576	804-1086	36	38.3	STO	Medium sand / rocks
Jefferson St / S 1st         804-153         804-1060         12         22.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-152         804-1060         12         19.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-000         804-539         36         29.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-095         804-094         12         37.5         STO         Medium sand / rocks           Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-092         804-091         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks	Jefferson St / S 1st	804-505	804-505A	36	122.5	STO	Medium sand / rocks
Jefferson St / S 1st         804-152         804-1060         12         19.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-1060         804-539         36         54.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-095         804-1059         36         29.2         STO         Medium sand / rocks           Spring St         804-095         804-094         12         37.5         STO         Medium sand / rocks           Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-092         804-091         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks	Jefferson St / S 1st	804-505A	804-1060	36	74.0	STO	Medium sand / rocks
Jefferson St / S 1st         804-1060         804-539         36         54.2         STO         Medium sand / rocks           Jefferson St / S 1st         804-539         804-1059         36         29.2         STO         Medium sand / rocks           Spring St         804-095         804-094         12         37.5         STO         Medium sand / rocks           Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-090         804-509         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks	Jefferson St / S 1st	804-153	804-1060	12	22.2	STO	Medium sand / rocks
Jefferson St / S 1st         804-539         804-1059         36         29.2         STO         Medium sand / rocks           Spring St         804-095         804-094         12         37.5         STO         Medium sand / rocks           Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-090         804-509         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks	Jefferson St / S 1st	804-152	804-1060	12		STO	Medium sand / rocks
Spring St         804-095         804-094         12         37.5         STO         Medium sand / rocks           Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-092         804-091         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks	Jefferson St / S 1st	804-1060	804-539	36	54.2	STO	Medium sand / rocks
Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-092         804-091         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks		804-539	804-1059	36	29.2	STO	Medium sand / rocks
Spring St         804-093         804-090         12         37.9         STO         Medium sand / rocks           Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-092         804-091         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks	Spring St			12		STO	Medium sand / rocks
Spring St         804-090         804-509         12         17.1         STO         Medium sand / rocks           Spring St         804-092         804-091         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks			804-090	12			
Spring St         804-092         804-091         12         34.1         STO         Medium sand / rocks           Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks							
Spring St         804-091         804-509         12         47.9         STO         Medium sand / rocks							

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc.
2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

CL Section 4, Item	D.
City	

STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	<b>CLEAN METHOD</b>	AMOUNT & TYPE OF DEBRI
Spring St / S 3rd	804-896	804-1051	12	9.0	STO	Medium sand / rocks
Spring St / S 3rd	804-895	804-1051	12	23.7	STO	Medium sand / rocks
Spring St / S 3rd	804-1051	804-897	15	49.6	STO	Medium sand / rocks
Spring St / S 3rd	804-1048	804-1049	12	6.0	STO	Medium sand / rocks
Spring St / S 3rd	804-1050	804-1049	12	26.8	STO	Medium sand / rocks
Spring St / S 3rd	804-1049	804-897	12	46.3	STO	Medium sand / rocks
Spring St / S 3rd	804-430	804-1053	42	227.1	STO	Medium sand / rocks
Spring St / S 3rd	804-1054	804-1053	12	6.0	STO	Medium sand / rocks
Spring St / S 3rd	804-1052	804-1053	12	23.8	STO	Medium sand / rocks
Spring St / S 3rd	804-1053	804-897	42	43.1	STO	Medium sand / rocks
Spring St / S 3rd	804-897	804-193	42	30.8	STO	Medium sand / rocks
Spring St / S 2nd	804-193	804-432	42	185.2	STO	Medium sand / rocks
Spring St / S 2nd	804-899	804-432	12	10.0	STO	Medium sand / rocks
Spring St / S 2nd	804-898	804-432	12	23.8	STO	Medium sand / rocks
Spring St / S 2nd	804-432	804-1074	42	42.7	STO	Medium sand / rocks
Dodge St / S 2nd	804-432	804-1074	12	37.1	STO	Medium sand / rocks
		804-893	12	24.4	STO	Medium sand / rocks
Dodge St / S 2nd Dodge St / S 2nd	804-893 804-1077	804-1077	12	30.1	STO	,
						Medium sand / rocks
Dodge St / S 2nd	804-892	804-1076	12	6.0	STO	Medium sand / rocks
Dodge St / S 2nd	804-1076	804-1073	15	280.9	STO	Medium sand / rocks
Spring St / S 2nd	804-900	804-1073	12	10.0	STO	Medium sand / rocks
Spring St / S 2nd	804-1075	804-1073	12	30.3	STO	Medium sand / rocks
Spring St / S 2nd	804-1073	804-1074	15	16.9	STO	Medium sand / rocks
Spring St / S 1st	804-1074	804-583	42	211.0	STO	Medium sand / rocks
Spring St / S 1st	804-246	804-583	12	10.0	STO	Medium sand / rocks
Spring St / S 1st	804-585	804-583	12	21.0	STO	Medium sand / rocks
Spring St / S 1st	804-583	804-584	42	32.1	STO	Medium sand / rocks
Spring St / S 1st	804-243	804-242	12	34.7	STO	Medium sand / rocks
Spring St / S 1st	804-242	804-577	12	40.1	STO	Medium sand / rocks
Spring St / S 1st	804-244	804-577	12	31.4	STO	Medium sand / rocks
Spring St / S 1st	804-245	804-584	12	28.6	STO	Medium sand / rocks
Spring St / S 1st	804-582	804-581	36		STO	No Line
Spring St / S 1st	804-581	804-061	36	90.0	STO	Medium sand / rocks
Spring St / S 1st	804-062	804-061	12	10.0	STO	Medium sand / rocks
Spring St / S 1st	804-061	804-580	36	42.8	STO	Medium sand / rocks
Spring St / S 1st	804-580	804-579	36	55.4	STO	Medium sand / rocks
Spring St / S 1st	804-579	OUT FALL	36	68.2	STO	Medium sand / rocks
Spring St / S 1st	804-285	OUT FALL	12	41.9	STO	Medium sand / rocks
Spring St / S 1st	804-584	804-1095	42	85.3	STO	Medium sand / rocks
Spring St / S 1st	804-1095	804-1089	42	48.7	STO	Medium sand / rocks
Spring St / S 1st	804-1089	804-1094	42	90.1	STO	Medium sand / rocks
Spring St / S 1st	804-1094	804-1093	42	81.0	STO	Medium sand / rocks
Spring St / S 1st	804-1093	OUT FALL	42	31.4	STO	Medium sand / rocks
Dodge St / S 6th	804-531	804-534	24	269.5	STO	Medium sand / rocks
Dodge St / S 6th	804-080	804-503	12	38.6	STO	Medium sand / rocks
Dodge St / S 6th	804-503	804-504	12	29.2	STO	Medium sand / rocks
Dodge St / S 6th	804-079	804-503	12	12.0	STO	Medium sand / rocks
Dodge St / S 6th	804-504	804-533	12	223.9	STO	Medium sand / rocks
Dodge St / S 6th	804-144	804-533	12	26.9	STO	Medium sand / rocks
Dodge St / S 6th	804-533	804-534	12	35.1	STO	Medium sand / rocks
Dodge St / S 6th	804-143	804-533	12	6.0	STO	Medium sand / rocks
Dodge St / S 5th	804-143	804-252	24	249.1	STO	Medium sand / rocks
Dodge St / S 5th	804-334	804-252	12	30.2	STO	Medium sand / rocks
Dodge St / S 5th	804-147	804-252	12	23.4	STO	Medium sand / rocks
Dodge St / S 5th	804-252	804-536	24	85.6	STO	Medium sand / rocks

<b>AQUALIS</b> .
Formerly Northern Pipe, Inc. 2094 COUNTY ROAD QQ
GREEN BAY, WISCONSIN 54311
920.754.3216

Cit	Section 4, Item D.

STREET NAME	START MH	END MH	MAP LENGTH	PIPE SIZE	<b>CLEAN METHOD</b>	AMOUNT & TYPE OF DEBRIS
Dodge St / S 4th	804-150	804-537	12	36.6	STO	Medium sand / rocks
Dodge St / S 4th	804-149	804-537	12	31.2	STO	Medium sand / rocks
Dodge St / S 4th	804-537	804-538	24	30.8	STO	Medium sand / rocks
Dodge St / S 4th	804-151	804-538	12	37.6	STO	Medium sand / rocks
Dodge St / S 4th	804-182	804-538	12	28.7	STO	Medium sand / rocks
Dodge St / S 3rd	804-538	804-538A	24	33.5	STO	Medium sand / rocks
Dodge St / S 3rd	804-538A	804-1057	36	162.2	STO	Medium sand / rocks
Dodge St / S 3rd	804-1056	804-1057	12	18.7	STO	Medium sand / rocks
Dodge St / S 3rd	804-1058	804-1057	12	19.1	STO	Medium sand / rocks
Dodge St / S 3rd	804-1057	804-430	36	60.3	STO	Medium sand / rocks
S 3rd St	804-891	804-429	12	10.0	STO	Medium sand / rocks
S 3rd St	804-890	804-429	12	33.0	STO	Medium sand / rocks
S 3rd St	804-429A	804-429	42	171.5	STO	Medium sand / rocks
S 3rd St	804-429	804-430	42	35.0	STO	Medium sand / rocks

58947.7



STREET NAME	START MH	END MH	PIPE SIZE	LENGTH CLEANED	DATE CLEANED	TIME SPENT ON HEAVY CLEAN
PHASE 1						
Western Ave	804-201	804-202	12"	32.8	06.25.2024	Heavy Clean 1 Hour
Western Ave	804-202	804-203	15"	41.3	06.25.2024	Heavy Clean 1 Hour
Western Ave	804-203	804-560	18"	20.2	06.25.2024	Heavy Clean 1 Hour
Western Ave	804-204	804-560	12"	46.4	06.25.2024	Heavy Clean 1 Hour
PHASE 2						
N. Second St	933-501A	933-210	15"	199.7	06.11.2024	Heavy Clean 2.5 Hours
Lounsbury St	933-210	933-634	18"	107.3	06.11.2024	Heavy Clean 1 Hour
Douglas St	934-173	934-174	18"	398.6	06.11.2024	Heavy Clean 2 Hours
N. Second St	928-030	928-014	21"	48.0	06.17.2024	Heavy Clean 2 Hours
Clay St	933-586	933-245	12"	266.4	06.24.2024	Heavy Clean 2 Hours
Virginia St	934-177	934-178	12"	235.5	05.28.2024	Heavy Clean 1 Hour
Virginia St	934-178	934-179	12"	244.2	05.28.2024	Heavy Clean 1 Hour
Douglas St	934-174	934-354	18"	62.4	05.29.2024	Heavy Clean 1 Hour
Douglas St	934-354	934-175	18"	55.2	05.29.2024	Heavy Clean 1 Hour
Douglas St	934-175	934-356	18"	12.0	05.29.2024	Heavy Clean 1 Hour
James St	933-236	933-270	18"	161.8	07.01.2024	Heavy Clean 2 Hours
Sand St	928-037	928-038	12"	57.7	07.08.2024	Heavy Clean 15 Min
Sand St	928-038	928-013	15"	142.5	07.03.2024	Heavy Clean 2.5 Hours
Robert St	928-015	928-031	15"	47.8	07.08.2024	Heavy Clean 15 Min
Clyman St	804-596	804-598	12"	106.5	07.08.2024	Heavy Clean 1 Hour
Clyman St	804-209	804-265	10"	277.3	07.09.2024	Heavy Clean 4 Hours
Clyman St	804-265	804-266	12"	40.8	07.09.2024	Heavy Clean 1 Hour
S. 5th St	804-261	804-596	12"	24.0	07.09.2024	Heavy Clean 30 Min
Market St	804-181	804-289	8"	44.0	07.15.2024	Heavy Clean 30 Min
Market St	804-236	804-1067	18"	98.5	07.16.2024	Heavy Clean 45 Min
Market St	804-1067	804-540	18"	44.2	07.16.2024	Heavy Clean 30 Min
Spring St	804-577	804-584	12"	283.8	07.22.2024	Heavy Clean 45 Min
Spring St	804-288	804-287	12"	29.4	07.22.2024	Heavy Clean 15 Min
Spring St	804-287	804-286	12"	27.9	07.22.2024	Heavy Clean 15 Min
Spring St	804-286	804-285	12"	33.7	07.22.2024	Heavy Clean 15 Min
Dodge St	804-539	804-429A	42"	59.6	07.24.2024	Heavy Clean 3 Hours
Dodge St	804-429A	804-429	42"	171.5	07.24.2024	Heavy Clean 3 Hours

TOTAL

3421.0

39.25 HRS

		Change No						
Date of Issuance:10/16/2024_		Effective Date:10/16/2024						
Project: Storm Sewer Owner: C Cleaning & Televising	City of Watertown	Owner's Contract No.: #5-24						
Contract: #5-24 Storm Sewer Cleaning & Tele Contractor: <u>NEW RESTORATION</u> <u>RECOVERY SERVICES, LLC db</u>	AND	Date of Contract: 3/14/2024						
and submarged nines	st based on actual qu	f this Change Order: antities, including adjustments for deep cleaning						
Attachments: Aqualis' Cleaning Log & Heavy Cle	eaning Log with actu	al quantities.						
Change in Contract Price	e:	Change in Contract Times:						
Original Contract Price:	Origi	nal Contract times 🛛 Working Days 🗖 Calendar Days						
\$193,638.80		Substantial completion ( <del>days or</del> date): <u>7/19/2024</u> Ready for final payment ( <del>days or</del> date): <u>7/26/2024</u>						
Increase from previously approved Change Orders No. 0 to No. 1	(Incre No	(Increase) (Decrease) from previously approved Change Orders No. <u>0</u> to No. <u>1</u>						
\$0.00		antial completion (days):8/2/2024 y for final payment (days): 8/9/2024						
Contract Price prior to this Change Order:	Contr	ract Times prior to this Change Order:						
\$ <u>193,638.80</u>		tantial completion (days or date): $\frac{8/2/2024}{8/9/2024}$ y for final payment (days or date): $\frac{8/9/2024}{8/9/2024}$						
Increase OR Decrease of this Change Order	: (Incre	ease) (Decrease) of this Change Order:						
\$14,311.01	Subst	antial completion (days or date): y for final payment (days or date):						
Contract Price incorporating this Change Or	der: Contr	ract Times with all approved Change Orders:						
\$ <u>207,949.81</u>		tantial completion (days or date): $\frac{8/2/2024}{8/9/2024}$						
	ACCEPTED: By:	ACCEPTED: By: <u>Adam W. Tierney</u> Contractor: (Authorized Signature)						
By: Engineer (Authorized Signature)	By: Owner (Authorized Signa	ature) Contractor: (Authorized Signature)						
Date:	Date:	Date: <u>9-30-2024</u>						
Approved by Funding Agency (if ap	plicable)	Date:						

EJCDC No. C-941 (2002 Edition) Prepared by the Engineer's Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specification Institute.

Section Title	Line Item	ltem Code	Item Description	UofM	Quantity	Bid Unit Price	Bid Extension	Actual Quantity	Actual Extension		Extension Difference	Deep Clean Overage	Deep Clean Cost Overage	Submerged Not Cleaned	Submerged Not Cleaned Cost
Base Bid A: 2024 Stormwater Cleaning and															
Televising	Required	Base Bid S	ection - Required Completion												
	1A	1A	Clean Manholes	EA	274	\$69.50	\$19,043.00	358	\$24,881.00	84	\$5,838.00				
	2A	2A	Clean Inlets	EA	35	\$69.50	\$2,432.50	14	\$973.00	-21	-\$1,459.50				
	3A	3A	Clean Catch Basins	EA	526	\$69.50	\$36,557.00	532	\$36,974.00	6	\$417.00				
	4A	4A	Clean Outfalls	EA	51	\$69.50	\$3,544.50	29	\$2,015.50	-22	-\$1,529.00				
			6-Inch			\$1.84	\$0.00	4	\$7.36	4	\$7.36				
	5A	5A	Clean & Televise 8-Inch PVC	LF	403	\$1.84	\$741.52	216	\$397.44	-187	-\$344.08				
	6A	6A	Clean & Televise, 10-Inch PVC	LF	115	\$1.84	\$211.60	414.7	\$763.05	299.7	\$551.45				
	7A	7A	Clean & Televise, 12-Inch PVC	LF	680	\$1.84	\$1,251.20	1130.3	\$2,079.75	450.3	\$828.55				
	8A	8A	Clean & Televise, 15-Inch PVC	LF	24	\$1.84	\$44.16	629.5	\$1,158.28	605.5	\$1,114.12	1		1	1
	-	-	8-Inch			\$1.84		29.5	\$54.28	29.5	\$54.28				
			10-Inch			\$1.84		149.5	\$275.08	149.5	\$275.08				
	9A	9A	Clean & Televise, 12-Inch HDPE	LF	1111	\$1.84	\$2,044.24	2757.2	\$5,073.25	1646.2	\$3,029.01				
	10A	10A	Clean & Televise, 15-Inch HDPE	LF	304	\$1.84	\$559.36	396.5	\$729.56	92.5	\$170.20				
	10A 11A	10A 11A	Clean & Televise, 19 Inch HDPE	LF	515	\$1.84	\$947.60	1386.4	\$2,550.98	871.4	\$1,603.38				
	11/	11/	21-Inch	L1	515	\$1.84	\$0.00	333.2	\$613.09	333.2	\$613.09				
	12A	12A	Clean & Televise, 24-Inch HDPE	LF	59	\$1.84	\$108.56	328.6	\$604.62	269.6	\$496.06				1
	12A 13A	12A 13A		LF	1541										
	13A 14A	13A 14A	Clean & Televise, 36-Inch HDPE	LF	825	\$1.84 \$1.84	\$2,835.44 \$1,518.00	1579 807.5	\$2,905.36 \$1,485.80	38 -17.5	\$69.92 -\$32.20				
	14A 15A	14A 15A	Clean & Televise, 42-Inch HDPE Clean & Televise, 8-Inch Ductile Iron		9	\$1.84	\$1,518.00	9	\$1,485.80	-17.5					
	16A	16A	Clean & Televise, 12-Inch Ductile Iron	LF	11	\$1.84	\$20.24	11	\$20.24	0	\$0.00				
	17A	17A	Clean & Televise, 8-Inch Vitrified Clay	LF	68	\$1.84	\$125.12	12	\$22.08	-56	-\$103.04				
	18A	18A	Clean & Televise, 10-Inch Vitrified Clay Clean & Televise, 12-Inch Vitrified	LF	294	\$1.84	\$540.96	294	\$540.96	0	\$0.00				
	19A	19A	Clay Clean & Televise, 15-Inch Vitrified	LF	1749	\$1.84	\$3,218.16	433.1	\$796.90	-1315.9	-\$2,421.26				
	20A	20A	Clay Clean & Televise, 21-Inch Vitrified	LF	730	\$1.84	\$1,343.20	735.3	\$1,352.95	5.3	\$9.75				
	21A	21A	Clay Clean & Televise, 24-Inch Vitrified	LF	60	\$1.84	\$110.40	573.9	\$1,055.98	513.9	\$945.58				
	22A 23A	22A 23A	Clay Clean & Televise, 8-Inch RCP	LF LF	798 95	\$1.84 \$1.84	\$1,468.32 \$174.80	784.8 453	\$1,444.03 \$833.52	-13.2 358	-\$24.29 \$658.72			16	\$29.44
	24A	24A	Clean & Televise, 10-Inch RCP	LF	1776	\$1.84	\$3,267.84	1029	\$1.893.36	-747	-\$1,374.48	1	1		+
	25A	25A	Clean & Televise, 12-Inch RCP	LF	19650	\$1.84	. ,	16034.8	\$29,504.03	-3615.2	-\$6,651.97	ł	1	779	\$1,433.36
	25A 26A	25A 26A	Clean & Televise, 12-Inch RCP	LF	8266	\$1.84	\$15,209.44	7828.8	\$14,404.99	-3013.2	-\$804.45			254	\$467.36
	20A 27A	20A 27A	Clean & Televise, 13-Inch RCP	LF	6673	\$1.84	\$12,278.32	5927.1	\$10,905.86	-437.2	-\$804.43			234	
	27A 28A	27A 28A	Clean & Televise, 18-Inch RCP	LF	3117		\$12,278.32	2075.3	\$10,905.86	-745.9	-\$1,372.46		+		
	28A 29A	-			-	\$1.84			1.7	_			+		
		29A	Clean & Televise, 24-Inch RCP	LF	3429	\$1.84	\$6,309.36	3737.9	\$6,877.74	308.9	\$568.38				
	30A	30A	Clean & Televise, 30-Inch RCP	LF	1794	\$1.84		1777.4	\$3,270.42	-16.6	-\$30.54				
	31A	31A	Clean & Televise, 33-Inch RCP	LF	289	\$1.84	\$531.76	315.6	\$580.70	26.6	\$48.94		+		
	32A	32A	Clean & Televise, 36-Inch RCP	LF	3651	\$1.84	\$6,717.84	2831.7	\$5,210.33	-819.3	-\$1,507.51	1			

#### Section 4, Item D.

	224	224	Clean & Talavian 42 Inch DCD	LF	C17	Ć1 04	Ć1 125 20	5 67 4	¢1.042.4C	40.0	¢01.00		i	ı
	33A 34A	33A 34A	Clean & Televise, 42-Inch RCP	LF	617 71	\$1.84 \$1.84	\$1,135.28 \$130.64	567.1 64.8	\$1,043.46 \$119.23	-49.9	-\$91.82 -\$11.41			
	-	-	Clean & Televise, 48-Inch RCP			-				-6.2				
	35A	35A	Clean & Televise, 54-Inch RCP	LF	851	\$1.84	\$1,565.84	843.9	\$1,552.78	-7.1	-\$13.06			
	36A	36A	Clean & Televise, 12-Inch CMP	LF	85	\$1.84	\$156.40	79.1	\$145.54	-5.9	-\$10.86			
	37A	37A	Clean & Televise, 15-Inch CMP	LF	50	\$1.84	\$92.00	47.8	\$87.95	-2.2	-\$4.05			
	38A	38A	Clean & Televise, 21-Inch CMP	LF	3	\$1.84	\$5.52	48	\$88.32	45	\$82.80			
	39A	39A	Clean & Televise, 24-Inch CMP	LF	529	\$1.84	\$973.36	376.1	\$692.02	-152.9	-\$281.34			
	40A	40A	Clean & Televise, 33-Inch CMP	LF	246	\$1.84	\$452.64	276.2	\$508.21	30.2	\$55.57			
	41A	41A	Clean & Televise, 36-Inch CMP	LF	318	\$1.84	\$585.12	666.5	\$1,226.36	348.5	\$641.24			
	42A	42A	Clean & Televise, 42-Inch CMP	LF	123	\$1.84	\$226.32	62	\$114.08	-61	-\$112.24			
	43A	43A	Clean & Televise, 48-Inch CMP	LF	166	\$1.84	\$305.44	166	\$305.44	0	\$0.00			
			Clean & Televise, 36x48-Inch ARCH											
	44A	44A	СМР	LF	469	\$1.84	\$862.96	469	\$862.96	0	\$0.00			
			Clean & Televise, 38x48-Inch ARCH											
	45A	45A	СМР	LF	76	\$1.84	\$139.84	714	\$1,313.76	638	\$1,173.92			
	46A	46A	Clean & Televise, 29x45-Inch HERCP	LF	937	\$1.84	\$1,724.08	931.8	\$1,714.51	-5.2	-\$9.57			
						+=.01	<i>+_,</i>		<i> </i>	512	<i>+</i> 2107			
	47A	47A	Clean & Televise, 43x53-Inch HERCP	LE	512	\$1.84	\$942.08	411.6	\$757.34	-100.4	-\$184.74			
	7/7	7/17		-	512	91.0 <del>4</del>	ÇJ72.00	411.0	Ş737.3 <del>4</del>	100.4	Ş104.74			
	48A	48A	Clean & Televise, 53x34-Inch HERCP	15	103	\$1.84	\$189.52	94.8	\$174.43	-8.2	-\$15.09			
	40A	40A	Clean & Televise, 33x34-IIICH HERCP	LF	103	Ş1.04	\$105.52	54.0	Ş174.45	-0.2	-313.09			
	49A	49A			725	ć1 04	¢1 224 00	725	¢1 224 00	0	¢0.00			
	49A	49A	Clean & Televise, 60x38-Inch HERCP	LF	725	\$1.84	\$1,334.00	/25	\$1,334.00	0	\$0.00			
	504	504	Clean & Televise, 38x24-Inch		250	¢4.04	6050 <b>7</b> 0	254.2	6054 <b>7</b> 0	2.0	¢6.00			
	50A	50A	Concrete	LF	358	\$1.84	\$658.72	354.2	\$651.73	-3.8	-\$6.99			
Alternate Bid B:														
2024 Storm Pipe														
Deep Cleaning	Optional		Bid Section - Optional Completion											
	1B	1B	Deep Clean, 8-Inch Pipe	LF	50	\$5.70	\$285.00	44	\$250.80	-6	-\$34.20	-6	-\$34.20	
			10-Inch			\$5.70	\$0.00	277.3	\$1,580.61	277.3	\$1,580.61	277.3	\$1,580.61	
	2B	2B	Deep Clean, 12-Inch Pipe	LF	50	\$5.70	\$285.00	1429.1	\$8,145.87	1379.1	\$7,860.87	1379.1	\$7,860.87	
	3B	3B	Deep Clean, 15-Inch Pipe	LF	50	\$5.70	\$285.00	451.5	\$2,573.55	401.5	\$2,288.55	401.5	\$2,288.55	
	4B	4B	Deep Clean, 18-Inch Pipe	LF	50	\$5.70	\$285.00	940	\$5,358.00	890	\$5,073.00	890	\$5,073.00	
	5B	5B	Deep Clean, 21-Inch Pipe	LF	50	\$5.70	\$285.00	48	\$273.60	-2	-\$11.40	-2	-\$11.40	
	6B	6B	Deep Clean, 24-Inch Pipe	LF	50	\$5.70	\$285.00	0	\$0.00	-50	-\$285.00	-50	-\$285.00	
	7B	7B	Deep Clean, 30-Inch Pipe	LF	50	\$5.70	\$285.00	0	\$0.00	-50	-\$285.00	-50	-\$285.00	
	8B	8B	Deep Clean, 33-Inch Pipe	LF	50	\$5.70	\$285.00	0	7	-50	-\$285.00	-50	-\$285.00	
	9B	9B	Deep Clean, 36-Inch Pipe	LF	50	\$5.70	\$285.00	0	\$0.00	-50	-\$285.00	-50	-\$285.00	
	10B	10B	Deep Clean, 42-Inch Pipe	LF	50	\$5.70	\$285.00	231.1	\$1,317.27	181.1	\$1,032.27	181.1	\$1,032.27	
	10B 11B	10B 11B	Deep Clean, 48-Inch Pipe	LF	50	\$5.70	\$285.00	0	\$0.00	-50	-\$285.00	-50	-\$285.00	
	11B 12B	11B 12B	Deep Clean, 54-Inch Pipe	LF	50	\$5.70	\$285.00	0	\$0.00	-50	-\$285.00	-50	-\$285.00	 
	12B 13B	12B 13B	Deep Clean, 34-Inch Pipe	LF	50	\$5.70	\$285.00	0	\$0.00	-50	-\$285.00	-50	-\$285.00	
	130	120	Deep Clean, 04-mich Pipe	LF	50	Ş5.7U	⊋285.0U	U	ŞU.UU	-50	-3283.00	-50	00.562ڊ-	
	140	140	Deen Clean Arch CMD and UEDCD		-	AE 70	CODE CO	_	<u> </u>		6005 CO	-50	6305 00	
	14B	14B	Deep Clean, Arch CMP and HERCP	LF	50	\$5.70	\$285.00	0	\$0.00	-50	-\$285.00	-50	-\$285.00	
Alternate Bid C:														
Miscellaneous														
Pipe Throughout														
the City	Optional	Alternate	Bid Section - Optional Completion											
			Clean & Televise, 12-Inch RCP, Hart											
	1C	1C	St (MH 804-634 to MH 804-633)	LF	95	5.26	\$499.70	93.4	\$491.28	-1.6	-\$8.42			
L					10	0.20	,		,					

	1D	1D	Clean Stormceptor	EA	2	1780	\$3,560.00 <b>\$193,638.80</b>	2	\$3,560.00 <b>\$207,949.84</b>	0	\$0.00 <b>\$14,311.04</b>	\$15,509.70	\$1,930.16
Cleaning	Optional		Bid Section - Optional Completion										
Stormceptor													
Alternate Bid D:													
	6C	6C	Bayberry Drive	LF	882	1.7	\$1,499.40	883	\$1,501.10	1	\$1.70		
			Clean & Televise, 15-Inch RCP,										
	5C	5C	Bayberry Drive	LF	168	4.46	\$749.28	174.2	\$776.93	6.2	\$27.65		
			Clean & Televise, 12-Inch RCP,										
	4C	4C	Kiewert St	LF	693	2.16	\$1,496.88	671.2	\$1,449.79	-21.8	-\$47.09		
			Clean & Televise, 12-Inch RCP,										
	3C	3C	Lane	LF	306	3.27	\$1,000.62	272.2	\$890.09	-33.8	-\$110.53		
			Clean & Televise, 15-Inch RCP, Terry										
	2C	2C	Culvert	LF	232	4.31	\$999.92	231.6	\$998.20	-0.4	-\$1.72		
			Clean & Televise, 84-Inch RCP, Aldi's										

# MEMO

## Engineering Division of the Public Works Department

**To:** Alderperson Board and Commission Members

From: Andrew M. Beyer, P.E.

**Date:** October 2, 2024

Subject: Public Works Commission Meeting of October 8, 2024

## Background

Agenda Item:

Review and take possible action: Sidewalk repair order for 200 S. Third St.

#### BACKGROUND:

The Sidewalk Repair Notice for 200 S. Third Street was prepared due to the sidewalk being removed for repair of a "private side" water service repair and has yet to be replaced.

Site Address	Estimated cost not to exceed
200 S. Third St.	\$1,003.28

A repair inspection report for the property with detailed estimate of cost to repair sidewalk and photos are attached. Property owners who receive sidewalk repair notices have three options on how to move forward with the repair:

- 1. City contractor to complete repair. Property owner is invoiced following completion.
- 2. Property owner can hire their own contractor to replace sidewalk to city specifications.
- 3. Property owner can replace sidewalk to city specifications.

The Engineering Division is seeking approval to the send the Sidewalk Repair Notice letter via certified mail per Wisconsin State Statute noticing the property owners to repair sidewalk.

Attachment: 200 S. Third Street Repair Notice



MEMO

## **Budget Goal**

This aligns with Budget Goal #5.

## **Financial Impact**

If the City performs the work under the annual sidewalk program, there are sufficient funds in the 2024 budget to cover the costs if the work is performed under the City's contract.

## Recommendation

Understanding that there is sufficient funding for the City's contractor to perform the work, if that is the option the property owner takes, Engineering Division recommends the Public Works Commission approve 1408 Duffy Street and 716 S. Twelfth Street property owners be sent letters to repair their respective sidewalks.

## 2024 Operational Goals

- 1. Proactively maintains and improves our parks and infrastructure in an effort to ensure quality, safety and compliance
- 2. Supports employee retention and growth, and also works to address critical staffing areas
- 3. Invests in the assessment, strategic planning and maintenance of our city buildings
- 4. Promotes and fosters innovative approaches for community development and growth
- 5. Maintains a safe and healthy community, and expands community education on safety and health

#### ENGINEERING DIVISION



Andrew Beyer, P.E. 920.262.4050

Maureen McBroom, ENV SP 920.206-4264 Ritchie 920.262.4034

Section 4, Item E.

Christopher Newberry 920-390-3164

Administrative Assistant Wanda Fredrick 920.262.4060

October 9, 2024

DNRSPOURHOUSE LLC W1376 MARIETTA AVE IXONIA, WI 53036

TAX PARCEL NUMBER: 291-0815-0412-250

Re: Sidewalk at 200 S. THIRD STREET, Watertown, WI

Dear PROPERTY OWNER:

Our department has observed graveled sidewalk area yet to be concreted abutting your property at <u>200 S. THIRD STREET</u>. Your property has been inspected and the graveled section of sidewalk <u>along S. Third Street</u> has been found to be a hazard and is in need of replacement.

According to City Code 457-3(A), the maintenance of the sidewalk is the responsibility of the abutting property owner.

By order of the Watertown Public Works Commission and affirmed by the Watertown Common Council, you are hereby notified to replace all marked sections of sidewalk according to City specifications.

You, as property owner, may:

- 1) Replace the sidewalk yourself, according to City specifications.
- 2) Hire your own sidewalk contractor to replace the sidewalk.
- 3) Have the City contractor complete the work for you at the prices listed on the enclosed estimate.

A permit is required for this sidewalk replacement. It can be obtained at the Engineering Department in the Municipal Building. There is <u>no</u> charge for this permit.

You have until <u>November 6, 2024</u> to repair this sidewalk. If, after this date the sidewalk is not replaced, a contractor hired by the City, shall repair the sidewalk and you will be invoiced for the cost. Any costs less than \$300.00 shall be paid in full sixty (60) days from billing date. Costs between \$300.00 and \$1,000.00 are due in full one (1) year after billing date. Costs greater than \$1,000.00 are due in two (2) equal annual payments; the first of which is due one (1) year from billing date and the second is due two (2) years from billing date. Unless previously paid, the costs will be collected as a special tax against the property.

Your sidewalk repair may need a Tree Protection Permit during Construction if adjacent to a city tree. Those permits are also issued at the Engineering Department in the Municipal Building. There is <u>no</u> charge for this permit.

Please advise us before October 30, 2024 of which method you plan to repair this sidewalk.

Thank you for your cooperation in this matter.

Sincerely,

Rítchie Píltz

Ritchie Piltz Engineering Project Manager

Enclosure

Via Certified Mail





Andrew Beyer, P.E. 920.262.4050

Maureen McBroom, ENV SP 920.206-4264 Ritchie Section 4, Item E. 920.262.4034

Christopher Newberry 920-390-3164

Administrative Assistant Wanda Fredrick 920.262.4060

#### **CITY CONTRACT PRICES**

(Estimated Costs Only)

Estimate for: 200 S. THIRD STREET

Remove existing concrete sidewalk: (4"):		Sq. ft. @	\$3.00/ Sq. ft. =	
Remove existing concrete sidewalk (6"):		 Sq. ft. @	\$3.00/ Sq. ft. =	
Construct miscellaneous concrete sidewalk (4"):	40.32	 Sq. ft. @	\$13.25/ Sq. ft. =	\$534.24
Construct miscellaneous concrete sidewalk: (6"):		Sq. ft. @	\$13.25/ Sq. ft. =	
REPLACEMENT ESTIMATED	\$534.24			

### NOTE: THIS IS ONLY A NOTICE. THIS IS NOT A BILL.

#### IMPORTANT: THIS NOTICE SHALL ACCOMPANY TRANSFER OF PROPERTY

# MEMO

## Engineering Division of the Public Works Department

To: Alderperson Board and Commission Members

From: Andrew M. Beyer, P.E.

**Date:** October 2, 2024

Subject: Public Works Commission Meeting of October 8, 2024

## Background

Agenda Item:

Review and discuss: additional 2024 Street Resurfacing

#### BACKGROUND:

In discussions with the City's Finance Department, additional funding is available for street resurfacing in the Annual Street Reserve Account due to favorable 2024 bids. Good resurfacing candidates have water main in good condition, good drainage, curb and gutter in good condition, pavement condition just beyond point of seal coat, and good base material.

Below is the list of Mill & Overlay streets developed by the Engineering Division to add to this year's contract. Engineering has asked the City's contracted 2024 Bituminous Surfacing contractor, Payne & Dolan to submit a quote for the additional resurfacing work to be presented at this Commission meeting for discussion and possible action. Attached is the submitted quote for \$52,588.50. Engineering seeking Commission approval to issue the attached change order.

Project	L.F.	PASER Ratings
RESURFACING 05-58-11-69		_
S. Ninth Street – Clyman St. to Western Ave.	490	6
E. Milwaukee Street – S. Third St. to S. Fourth St.	211	3
Spring Street – S. Fourth St. to S. Fifth St.	264	4

Attachments: Change Order No. 2 Quote Form Change Order No. 2 Location Map Change Order No. 2



City Limits



City of Watertown Geographic Information System

Scale: 14.000 Printed or: Septem 666
SCALE BAR = 1\*
DISCLAMER This map is inside to be guidly of the records the during is inside to be guidly of the records the during is inside to be guidly of the records the during is inside to be guidly of the records the during its mass inside.
C) of Vibitism materia to visarity whethere or concriming the information.

S. Ninth Street - Clyman St. to Western Ave. (2-Inch Mill & Overlay) E. Milwaukee Street - S. Third St. to S. Fourth St. (2-Inch Mill & Overlay) Spring Street - S. Fourth St. to S. Fifth St. (2-Inch Mill & Overlay)

Section Title	Line Item	Item Description	UofM	Quantity	Unit Price	Extension
Mill and Overlay		City to install Traffic Control and Adjust				
		Removing Asphaltic Surface Milling, 2-				
	1A	Inch	SY	2940		
	2A	Tack Coat	GAL	206		
	3AHMA Pavement 4 MT 58-28 STON360					
					Total	

Date of Issuance: October 9, 2024\_\_\_\_\_

Effective Date: October 9, 2024

Project: 6-24 Owner: City of Watertown		Owner's Contract No.: 6-24		
Contract: 2024 Bituminous Surfaci	ng	Date of Contract: February 28, 2024		
Contractor: Payne & Dol	an, Inc.			

The Contract Documents are modified upon execution of this Change Order:

Description: <u>Pursuant to action taken by the Public Works Commission at its October 8, 2024 meeting on</u> the quote for additional resurfacing submitted by Payne & Dolan to Mill & Overlay one-block lengths of <u>S. Ninth St., E. Milwaukee St., and Sprin St.</u> Attachments:

Change Order No. 2 Quote Form and Location Map

Change in Contract Price: \$5	2,588.50	Change in Contract Times:					
Original Contract Price:							
<b>\$535.555</b>		-Substantial completion (days or date): Ready for final payment (days or date):					
\$ <u>527,765.25</u>		iteady for final payin					
Increase from previously approved Change Orders No. <u>1</u>	9	(Increase) (Decrease) from previously approved Change Orders No to No					
		Substantial completion (					
\$ <u>168,808.25</u>		Ready for final payment	<u>(days):</u>				
Contract Price prior to this Change Order:		Contract Times prior to this Change Order:					
		Substantial completion (days or date):					
\$ <u>696,573.50</u>		Ready for final payment (days or date):					
Increase of this Change Order:		(Increase) (Decrease) of this Change Order:					
\$ <u>52,588.50</u>		Substantial completion (days or date):					
		Ready for final payment (days or date):					
Contract Price incorporating this Change C	Order:	Contract Times with all	approved Change Orders:				
		Substantial completion (days or date):					
\$ <u>749,162.00</u>		Ready for final payment	(days or date):				
RECOMMENDED:	ACCEPTED:		ACCEPTED:				
By: By:		10. ( )	By:				
Engineer (Authorized Signature)	Owner (Authorize	d Signature)	Contractor: (Authorized Signature)				
Date:	Date:		Date:				
Approved by Funding Agency (if a	pplicable)		Date:				

Prepared by the Engineer's Joint Contract Documents Committee and endorsed by the Associated General Contractors of America and the Construction Specification Institute.

EJCDC No. C-941 (2002 Edition)



Water Systems

800 Hoffmann Drive • P.O. Box 477 • Watertown WI 53094-0477 WASTEWATER (920) 262-4085 • WATER (920) 262-4075

To: Chairman Board and members of the Public Works Commission From: Peter Hartz – Water Systems Manager October 03, 2024

Re: October 08, 2024, Public Works Commission meeting agenda item

#### Water Systems:

 <u>Review and take possible action</u> – Presentation by Ehlers & Associates 2024 Water Rate Study progress and summary of phase 1 findings.

**Background:** On July 23, 2024, this commission approved moving forward with Ehlers to begin the study of the water rates and provide a review of said rates that were last adjusted in April of 2017. For the water utility to continue with our private lead service replacement program, the Public Service Commission of Wisconsin requires a review of the water rates as part of our Safe Drinking Water loan application, no funds will be awarded without the review and study of the water rates to assure adequate revenue is available for operations, capital projects, and debt service payments.

Budget goal: This aligns with investments and infrastructure planning.

**Financial Impact:** The estimated lead service replacement is approximately \$14.02 million, although the loan amount and debt service payment is still pending with the State, we estimate that approximately ½ of the loan (\$7 million) will require a debt repayment schedule, and the water utility will need to pay 100% of our public side lead replacements estimated to be approximately \$5.5 million. The new program will not be at 100% principal forgiveness as it has been in the past few years.

**Recommendation:** I recommend we move forward and complete the application for a conventional rate case with the PSC in preparation for the 2025 private lead service replacement program SDWL award.

Note: Submitting an application to the PSC for a rate review does not authorize a rate increase.

Thank you for your attention to this matter. Should you have any questions, or need further clarification please don't hesitate to reach out to me.

Best regards,

Peter Havtz Water Systems Manger

Section 4, Item H.

Construction	Qty.	Cost		Total
CT 9620 Private Replacements (5439-07)	230	\$ 7,000	\$	1,610,000
City-Wide Private Replacements (5439-08)	446	\$ 7,000	\$	3,122,000
City-Wide Public Replacements (5439-08)	440	\$ 11,000	\$	4,840,000
CT 1002 Private Replacements (5439-09)	433	\$ 7,000	\$	3,031,000
	1549	Subtotal =	\$	12,603,000
Contingency	1	\$ 1,260,300	\$	1,260,300
		Subtotal =	\$	13,863,300
Engineering				
Design/Bidding	1		\$	-
Construction	1	\$ 150,000	\$	150,000
		Subtotal =	\$	150,000
Closing Costs				
Bond Counsel	1	\$ 7,500	\$	7,500
		Total =	\$	14,020,800
		i otal =	Ψ	14,020,000

LSL Breakdown		
\$ 1,771	71,000 CT 9620 (5439-07) Private Side Construction	
\$ 3,434	34,200 City-Wide (5439-08) Private Side Construction	n
\$ 5,481	31,500 City-Wide (5439-08) Public Side Construction	1
\$ 3,334	34,100 CT 1002 (5439-09) Private Side Construction	
\$ 14,020	20,800 <b>OK</b>	
LSL Breakdown		
\$ 8,539	39,300 Total Private Side Construction	
\$ 5,481	31,500 Total Public Side Construction	
\$ 14,020	20,800 <b>OK</b>	

14,020,800	ок
11,020,000	

#### EPA Breakdown

	CT 9620 (5439-07)	\$ 1,771,000.00	
	City Wide (5439-08)	\$ 8,915,700.00	
\$ 7,962,000	CT 1002 (5439-09)	\$ 3,334,100.00	
	Subtotal =	\$ 14,020,800	ΟΚ

PF Percentage	PF	Amount	Loa	an Amount
75%	\$	1,328,250	\$	442,750
50%	\$	1,717,100	\$	1,717,100
10%	\$	548,150	\$	4,933,350
100%	\$	3,334,100	\$	-
Totals	\$	6,927,600	\$	7,093,200

	Future
2024	\$449,304.63
	\$449,304.63
2025	\$899,733.80
	\$450,429.17
2026	\$1,351,290.34
	\$451,556.54
2027	\$1,803,977.07
	\$452,686.73

Section 4, Item H.

#### e SDWLP P&I Schedule

\$22,492.90 <b>\$22,492.90</b>	\$8,753,695.37 <b>\$471,797.53</b>
\$43,861.26	\$8,303,266.20
\$21,368.36	\$471,797.53
\$64,102.25	\$7,851,709.66
\$20,240.99	\$471,797.53
\$83,213.05	\$7,399,022.93
\$19,110.80	\$471,797.53

Section 4, Item H.



## **City of Watertown, WI** 2024 Water Long-Range Cash Flow Analysis October 8, 2024 Public Works Meeting

73

## Why are we here?

- Water Utility completing future capital investment & have upcoming 2025 SDWFL to close
- Ehlers to identify fiscal sustainability
- Our Process
  - ✓ Historical Rate Implementation & Performance
  - ✓ Future Projections
    - > O&M, Debt Service, Cash Funded Capital
    - Funding Project(s): Debt vs. Cash



### PSC Windows of Opportunity to Adjust Rate Section 4, Item H.

Simplified Rate Case ("SRC")

### • Once a year and only if eligible

- Eligibility based on time and finances
  - Time: Once a year and w/in 5 years since last CRC
  - Finances: if PSC report indicates that year's SRC rate would not take utility over benchmark ROR

## Conventional Rate Case ("CRC")

- Eligible whenever
- PSC will generally want their math



## Water: Historical Rate Implementation

- Rates were last adjusted in
  - ✓ April 15, 2017 through a CRC
  - ✓ July 16, 2016 through a SRC
- Ineligible for SRC
  - ✓ Only opportunity to adjust rates will be a CRC until that is completed and then another 5 year window would be opened for SRCs



### **PSC Math Review**

How much revenue should we generate from user rates?

### Cash Basis

- + Op. and Maint. Expenses
- + Taxes/Transfer Payments
- + Debt Service (P&I)
- + Capital funded from rates
- Less Non-rate Revenue
- = Total Revenue Requirements

### <u>Utility Basis - PSC</u>

- + Op. and Maint. Expenses
- + Taxes/Transfer Payments
- + Depreciation
- + Rate of Return on Rate Base
- Less Non-Rate Revenue
- = Total Revenue Requirements



### Water: Historical Rate Performance

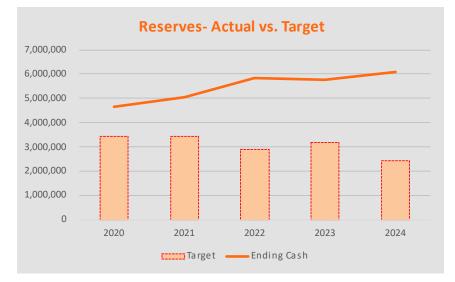
Shown with no increase **Revenue Requirement** Est Budget Description 2020 2021 2022 2023 2024 2025 Component **Cash Basis** O&M and PII OT \$2,601,384 \$2,928,980 \$2,930,493 \$2.852.645 \$3,579,894 \$3,649,805 2 \$1,328,941 \$1,330,123 \$868.016 \$874,420 \$878,183 Debt \$1,331,794 3 Cash Funded Capital<sup>A</sup> \$1.645.565 \$2.052.774 \$1,949,393 \$534,998 \$1.544.152 \$1.874.648 Less: Other Revenue \$164,204 \$211.209 \$207.029 \$228,103 \$182,500 \$182,500 \$38,169 \$8,287 \$28,991 \$306,790 \$140,000 \$140,000 Interest Income Revenue Requirement \$5.274.957 \$5,683,990 \$5,899,244 \$5,238,542 \$6,081,207 \$4,740,486 (Costs less Other Income) User Rates Revenue \$5.242.195 \$5,408,766 \$5,442,790 \$5.367.953 \$5,442,790 \$5,442,790 Rate Adequacy (\$32,762) (\$275.224) (\$456,454) \$129,411 (\$638,417) \$702.304 Rate Adjustment Needed 0.62% 5.09% 8.39% 0.00% 11.73% 0.00% Utility Basis (PSC) O&M and PILOT \$2,601,384 \$2,928,980 \$2,930,493 \$2,852,645 \$3,579,894 \$3,649,805 2 Depreciation \$1,034,416 \$1,070,670 \$1,070,083 \$989,522 \$1,009,317 \$1,063,944 NIRB \$30.473.640 \$30.311.734 \$30.123.906 \$30.764.399 \$31.503.420 \$32.077.468 PSC Benchmark ROI % 4.90% 4.90% 4.90% 6.50% 6.30% 6.20% 3 PSC Calculated ROI \$1,493,208 \$1,485,275 \$1,476,071 \$1,999,686 \$1,984,715 \$1,988,803 Less: Other Revenue \$164.204 \$211.209 \$207.029 \$228,103 \$182,500 \$182,500 Revenue Requirement \$5,273,716 \$5,269,618 \$6,391,427 \$6.520.051 \$4,964,804 \$5,613,750 (Costs less Other Income) User Rates Revenue \$5,242,195 \$5,408,766 \$5,442,790 \$5.367.953 \$5,442,790 \$5,442,790 Rate Adequacy \$277.391 \$135,050 \$173,172 (\$245,797) (\$1,077,261) (\$948.637) Rate Adjustment Needed 0.00% 0.00% 0.00% 4.58% 17.43% 19.79%

#### Notes:

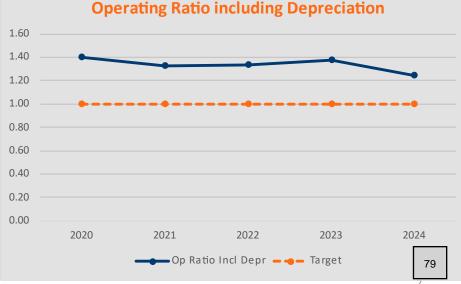
^Includes recommended debt coverage at 1.4x annual debt payment

## Water: Historical Financial Indicators

Section 4, Item H.



Reserve target = 6 months
 O&M and 1 year debt service





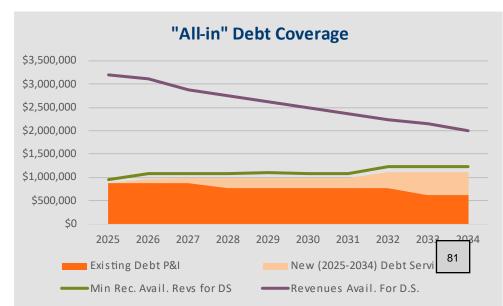
## Water rate options

- Simplified: not eligible
- Conventional: even in a scenario with declining ROR, the adjustment needed increases

	Budget		Projected	
	2025	2026	2027	2028
Rate of Return				
Average Utility Plant in Service	48,745,391	50,127,791	51,600,516	53,373,341
Plus: Materials and Supplies	125,322	125,322	125,322	125,322
Less: Avg.Utility Plant Accum. Depreciation	16,793,244	17,688,088	18,460,915	19,217,105
Less: Regulatory Liability	0	0	0	0
Average Net Investment Rate Base (NIRB)	32,077,468	32,565,025	33,264,923	34,281,557
Net Operating Income	911,542	754,623	588,058	412,609
ROR	2.84%	2.32%	1.77%	1.20%
PSC Projected Benchmark	6.20%	6.00%	5.80%	5.60%
Rate Adj. to Benchmark	19.79%	22.03%	24.64%	27.69%



- Utility investing in 19M of added capital 2025-2034
- Can cash fund 9M remainder by debt or outside sources
- LSLs to be discussed later with more factors to be resolved
  - ✓ Left room in reserves to absorb





### Water: Future Projection

Section 4, Item H.

	Budget					Projected				
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Revenues										
Total Revenues from User Rates <sup>1</sup>	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051
Percent Increase to User Rates Cumulative Percent Rate Increase	19.79% 19.79%	0.00% 19.79%								
Dollar Amount Increase to Revenues	\$1,077,261	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Other Revenues	\$322,500	\$347,402	\$228,857	\$238,452	\$237,183	\$233,467	\$239,711	\$243,581	\$290,247	\$292,759
Total Revenues	\$6,842,551	\$6,867,453	\$6,748,908	\$6,758,503	\$6,757,235	\$6,753,518	\$6,759,762	\$6,763,632	\$6,810,298	\$6,812,810
Less: Expenses										
Operating and Maintenance <sup>2</sup>	\$2,774,305	\$2,857,534	\$2,943,260	\$3,031,557	\$3,122,504	\$3,216,179	\$3,312,665	\$3,412,045	\$3,514,406	\$3,619,838
PILOT Payment	\$875,500	\$906,143	\$937,857	\$970,682	\$1,004,656	\$1,039,819	\$1,076,213	\$1,113,880	\$1,152,866	\$1,193,217
Net Before Debt Service and Capital Expenditures	\$3,192,747	\$3,103,777	\$2,867,791	\$2,756,263	\$2,630,074	\$2,497,519	\$2,370,884	\$2,237,707	\$2,143,026	\$1,999,756
Debt Service										
Existing Debt P&I	\$878,183	\$876,721	\$870,182	\$764,998	\$766,087	\$766,855	\$767,297	\$767,562	\$630,100	\$629,999
New (2025-2034) Debt Service P&I	\$0	\$99,875	\$119,250	\$220,979	\$225,500	\$220,500	\$215,500	\$352,875	\$486,375	\$442,229
Total Debt Service	\$878,183	\$976,596	\$989,432	\$985,977	\$991,587	\$987,355	\$982,797	\$1,120,437	\$1,116,475	\$1,072,228
Transfer In (Out)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Less: Capital Improvements & COI	\$1,660,880	\$1,743,300	\$1,596,761	\$2,400,000	\$2,761,595	\$645,000	\$3,011,475	\$1,437,985	\$2,477,963	\$1,710,390
Debt Proceeds	\$1,410,000	\$0	\$1,265,000	\$0	\$0	\$0	\$2,010,000	\$0	\$1,505,000	\$0
Net Annual Cash Flow	\$2,063,684	\$383,881	\$1,546,598	(\$629,714)	(\$1,123,108)	\$865,164	\$386,612	(\$320,714)	\$53,589	(\$782,862)
Restricted and Unrestricted Cash Balance:										
Balance at first of year	\$6,090,172	\$8,153,856	\$8,537,737	\$10,084,334	\$9,454,620	\$8,331,513	\$9,196,677	\$9,583,289	\$9,262,575	\$9,316,164
Net Annual Cash Flow Addition/(subtraction)	\$2,063,684	\$383,881	\$1,546,598	-\$629,714	-\$1,123,108	\$865,164	\$386,612	-\$320,714	\$53,589	-\$782,862
Balance at end of year	\$8,153,856	\$8,537,737	\$10,084,334	\$9,454,620	\$8,331,513	\$9,196,677	\$9,583,289	\$9,262,575	\$9,316,164	\$8,533,302
"All-in" Debt Coverage	3.64	3.18	2.90	2.80	2.65	2.53	2.41	2.00	1.92	1.87
PSC Days Cash on Hand	864	912	1,079	953	816	888	907	817	813	82 697

#### Notes:

1) Assumes no changes in customer count or usage beyond Test Year.

2) Assumes 3.00% annual inflation beyond budget year.

#### Legend:

Simplified Rate Case (projected eligibility) Conventional (Full) Rate Case

## Water: Impact on Avg. Res. Bill

			Wate	er				Sewe	r				Storn	nwater						
Year	Increase	Water Vol. Charge <sup>1</sup>	Water User Charge <sup>2</sup>	Utility Bill (Monthly)	Change Over Prior Year	Increase	Sewer Vol. Charge <sup>3</sup>	Sewer User Charge <sup>3</sup>	Utility Bill (Monthly)	Change Over Prior Year	I	Increase	Storm User Charge <sup>5</sup>	Utility (Mont		Change Over Prior Year	Utility Bill (Annual)	Change Over Prior Year	% of MHI (67,189)	Year
		Tiered	Serv. + PFP				100CF	Gen Service					Per ERU							
2024		3.80	17.00	\$ 37.33			3.51	21.78	\$ 40.56				10.39	\$ :	0.39		\$ 1,059.34		1.58%	2024
2025	19.79%	4.55	20.36	\$ 44.72	\$ 7.39	0.009	6 3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ :	0.39	\$-	\$ 1,148.00	\$ 88.66	1.71%	2025
2026	0.00%	4.55	20.36	\$ 44.72	ş -	0.009	6 3.51	21.78	\$ 40.56	ş -		0.00%	10.39	\$ :	0.39	\$-	\$ 1,148.00	ş -	1.71%	2026
2027	0.00%	4.55	20.36	\$ 44.72	ş -	0.009	6 3.51	21.78	\$ 40.56	ş -		0.00%	10.39	\$ :	0.39	\$-	\$ 1,148.00	ş -	1.71%	2027
2028	0.00%	4.55	20.36	\$ 44.72	\$ -	0.009	6 3.51	21.78	\$ 40.56	ş -		0.00%	10.39	\$ :	0.39	\$-	\$ 1,148.00	\$ -	1.71%	2028
2029	0.00%	4.55	20.36	\$ 44.72	ş -	0.009	6 3.51	21.78	\$ 40.56	ş -		0.00%	10.39	\$ :	0.39	\$ -	\$ 1,148.00	\$ -	1.71%	2029
2030	0.00%	4.55	20.36	\$ 44.72	ş -	0.009	6 3.51	21.78	\$ 40.56	ş -		0.00%	10.39	\$ :	0.39	\$-	\$ 1,148.00	\$ -	1.71%	2030
2031	0.00%	4.55	20.36	\$ 44.72	ş -	0.009	6 3.51	21.78	\$ 40.56	ş -		0.00%	10.39	\$ :	0.39	\$-	\$ 1,148.00	ş -	1.71%	2031
2032	0.00%	4.55	20.36	\$ 44.72	\$ -	0.009	6 3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ :	0.39	ş -	\$ 1,148.00	\$ -	1.71%	2032
2033	0.00%	4.55	20.36	\$ 44.72	\$ -	0.009	6 3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ :	0.39	\$ -	\$ 1,148.00	\$ -	1.71%	2033
2034	0.00%	4.55	20.36	\$ 44.72	\$ -	0.009	6 3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ :	0.39	\$-	\$ 1,148.00	\$ -	1.71%	2034
Total Chang	ge over plan	ning perio	d		\$ 7.39					\$ -						\$ -		\$ 88.66		

#### Notes:

1. Current water volumetric rate is \$3.80 per 100 cubic feet for the first 1600 cubic feet monthly

2. The water user charges include a monthly service charge of \$8.40 plus a public fire protection charge of \$8.60 for a 5/8 inch meter.

3. The current Sewer volumetric rate is \$3.51 per 100 cubic feet and a service charge of \$21.78 for 5/8 inch meter.

4. The usage is assumed to be 535 CF per month.

5. The current stormwater rate is \$10.39 per ERU for a Single Family user (plus \$2.13 admin fee per customer)

6. No Sewer or Stormwater Analysis completed to date. Sewer Analysis planned for 2025.



Section 4. Item H.

## Water Bill Comparison

Section 4, Item H.

		Utility	Min. Quarterly Bill				
Utility Name	County	Class	(5/8 in. meter)	9,000 GAL	12,000 GAL	15,000 GAL	Effective Date
Cambridge Municipal Water Utility	Jefferson	D	66.00	189.75	231.00	272.25	5/1/2024
Hustisford Utilities	Dodge	D	68.10	145.95	171.90	197.85	1/1/2013
City of Waukesha Water Utility	Waukesha	AB	48.00	110.10	130.80	151.50	10/1/2023
Waupun Public Utilities	Dodge	С	41.46	105.54	126.90	148.26	5/1/2012
Columbus Water And Light Department	Dodge	С	43.74	104.82	125.18	145.54	2/1/2024
City of Waukesha Water Utility	Waukesha	AB	48.00	100.38	123.09	145.80	10/1/2023
Iron Ridge Municipal Water Utility	Dodge	D	48.00	103.35	121.80	140.25	2/3/2020
Fond Du Lac Water Utility	Fond du Lac	AB	44.00	100.88	119.84	138.80	1/6/2023
Brownsville Water Utility	Dodge	D	44.56	99.01	117.16	135.31	12/31/202
Lowell Municipal Water And Sewer Utility	Dodge	D	30.00	92.10	112.80	133.50	7/1/2020
Lomira Municipal Water Utility	Dodge	D	30.00	89.85	109.80	129.75	3/22/2024
Lake Mills Light And Water Department	Jefferson	С	34.83	88.74	106.71	124.68	10/1/2023
Theresa Municipal Water And Sewer Utility	Dodge	D	42.00	90.06	106.08	122.10	8/2/2024
Watertown Water Department (TY25 CRC)	Two	AB	30.19	84.81	103.02	121.23	TBE
Waterloo Water And Light Commission	Jefferson	С	38.88	83.61	98.52	113.43	9/1/2023
City of Horicon Water Utility	Dodge	С	31.41	74.79	89.25	103.71	12/1/2023
City of Fox Lake Water Utility	Dodge	D	32.40	73.92	87.76	101.60	12/27/2023
Jefferson Water Utility	Jefferson	С	31.59	72.99	86.79	100.59	1/1/2024
Mayville Municipal Water Utility	Dodge	С	30.00	72.36	86.48	100.60	5/29/2024
Watertown Water Department (Current)	Two	AB	25.20	70.80	86.00	101.20	4/15/2012
Randolph Municipal Water Utility	Dodge	D	30.90	72.12	85.86	99.60	1/2/2020
Juneau Utility Commission	Dodge	D	30.00	68.25	81.00	93.75	7/1/2020
Leroy Sanitary District No 1	Dodge	D	23.55	66.48	80.79	95.10	12/1/2023
City of Oconomowoc Utilities	Waukesha	AB	27.00	64.80	77.40	90.00	9/1/202
City of Fort Atkinson Water Utility	Jefferson	AB	21.71	62.99	76.75	90.51	7/1/2024
Reeseville Water Utility	Dodge	D	33.30	62.19	71.82	81.45	12/31/2018
Beaver Dam Water Utility	Dodge	AB	18.54	58.02	71.18	84.34	2/1/2020
Whitewater Municipal Water Utility	Jefferson	С	29.40	59.22	71.16	83.10	4/28/2023
Johnson Creek Water Utility	Jefferson	С	37.23	60.09	67.71	75.33	6/28/2024
Sun Prairie Utilities	Dane	AB	29.91	53.31	61.11	68.91	1/1/2024
Town of Portland Sanitary District #1	Dodge	D	29.58	52.62	60.30	67.98	15/2008
Village of Palmyra Water and Sewer Utility	Jefferson	D	18.54	46.53	55.86	65.19	84 17/2013
Stevens Point Municipal Water Utility	Portage	AB	29.66	46.94	52.70	58.46	12/1/202
Clyman Utility Commission	Dodge	D	31.74	46.50	51.42	56.34	8/7/2024
*Sorted largest to smallest by 12,000 Gallons							



## LSL Replacement Considerations

- Partially or fully funded by EIF (State DNR Program)
- Private Side LSLs cannot be funded by user rates or special assessments
  - ✓ Generally, communities have used GO debt or available cash (outside of grants) and used a loan program to the property getting the work completed
  - ✓ EIF Loan program also has a special revenue pledge (customer loan repayments) for those with GO debt capacity concerns



## **Recommendations & Next Steps**

- File a Conventional Rate Case Application for Test Year 2025, in preparation for 2025 SDWFL
- Consider inflationary increases as needed in future years
- Future considerations for Phase 2:
  - ✓ PILOT discussion
  - ✓ Mixed use of cash and debt (abated with revenues of the water utility) for future projects outlined in CIP



## **Questions?**

Section 4, Item H.



October 8, 2024

2024 WATER RATE STUDY:

## City of Watertown, WI

### Phase 1: Long-Range Cash Flow Analysis



Prepared by:

Ehlers N19W24400 Riverwood Drive, Suite 100 Waukesha, WI 53188 Advisors:

Brian Roemer Senior Municipal Advisor Ariana Schmidt Senior Financial Specialist

### BUILDING COMMUNITIES. IT'S WHAT WE DO.

### 2024 Water Rate Study

Section 1 — Historical Analysis

City of Watertown, WI



## Table 1Water Rate Performance

City of Watertown, WI

Demonstration of (		
Revenue Requirement	Est	Budget
Component Description 2020 2021 2022	2023 2024	2025
Cash Basis		
	\$2,852,645 \$3,579,89	
2 Debt \$1,331,794 \$1,328,941 \$1,330,123	\$868,016 \$874,42	0 \$878,183
3 Cash Funded Capital <sup>^</sup> \$1,544,152 \$1,645,565 \$1,874,648 \$	\$2,052,774 \$1,949,39	3 \$524,998
Less:	¢000.400 ¢400.50	0 ¢400 500
Other Revenue \$164,204 \$211,209 \$207,029	\$228,103 \$182,50 \$200,700 \$140,00	
Interest Income \$38,169 \$8,287 \$28,991 Revenue Requirement \$5,274,957 \$5,683,990 \$5,899,244 \$	\$306,790 \$140,00 \$5,238,542 \$6,081,20	
(Costs less Other Income)	5,230,342	7 φ4,730,400
(Costs less Other Income)		
User Rates Revenue \$5,242,195 \$5,408,766 \$5,442,790 \$	\$5,367,953 \$5,442,79	0 \$5,442,790
Rate Adequacy (\$32,762) (\$275,224) (\$456,454)	\$129,411 <b>(\$638,41</b>	7) \$712,304
Rate Adjustment Needed 0.62% 5.09% 8.39%	0.00% 11.73	% 0.00%
Utility Basis (PSC)		
1 O&M and PILOT \$2,601,384 \$2,928,980 \$2,930,493 \$	62,852,645 \$3,579,89	4 \$3,649,805
2 Depreciation \$1,034,416 \$1,070,670 \$1,070,083	\$989,522 \$1,009,31	7 \$1,063,944
	30,764,399 \$31,503,42	
PSC Benchmark ROI % 4.90% 4.90% 4.90%	6.50% 6.30	
3 PSC Calculated ROI \$1,493,208 \$1,485,275 \$1,476,071 \$	\$1,999,686 \$1,984,71	5 \$1,988,803
Less:		
Other Revenue \$164,204 \$211,209 \$207,029	\$228,103 \$182,50	0 \$182,500
	\$5,613,750 \$6,391,42	
(Costs less Other Income)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·······
· · · · · · · · · · · · · · · · · · ·		
	\$5,367,953 \$5,442,79	
Rate Adequacy \$277,391 \$135,050 \$173,172	(\$245,797) (\$948,63	7) (\$1,077,261)
Rate Adjustment Needed 0.00% 0.00% 0.00%	4.58% 17.43	% 19.79%

Notes:

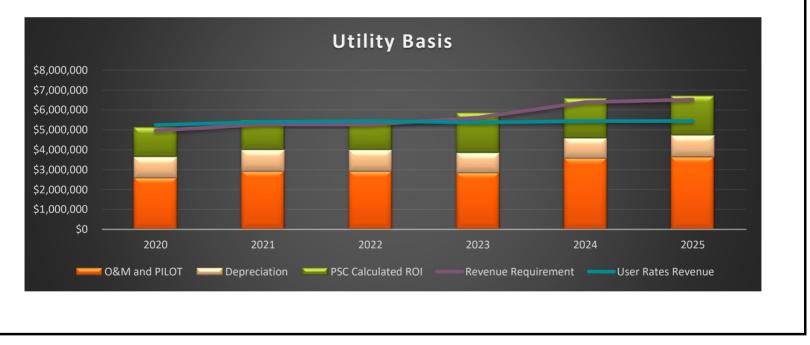
Ancludes recommended debt coverage at 1.4x annual debt payment



# Table 2Water Utility Rate Performance Charts

City of Watertown, WI







# Table 3Water Utility Cash Flow Analysis - Historical 2020-2024

City of Watertown, WI

		Actua	al		Estimated
	2020	2021	2022	2023	2024
Revenues					
Total Revenues from User Rates	\$5,242,195	\$5,408,766	\$5,442,790	\$5,367,953	\$5,442,790
Percent Increase to User Rates	0.00%	0.00%	0.00%	0.00%	0.00%
Other Revenues					
Interest Income	\$38,169	\$8,287	\$28,991	\$306,790	\$140,000
Other Income	\$169,054	-\$40,330	\$218,718	\$161,107	\$182,500
Total Other Revenues	\$207,223	-\$32,043	\$247,709	\$467,897	\$322,500
Total Revenues	\$5,449,418	\$5,376,723	\$5,690,499	\$5,835,850	\$5,765,290
Less: Expenses					
Operating and Maintenance	\$1,639,893	\$1,952,546	\$2,104,648	\$2,120,902	\$2,729,894
PILOT Payment	\$961,491	\$976,434	\$825,845	\$731,743	\$850,000
Net Before Debt Service and Capital Expenditures	\$2,848,034	\$2,447,743	\$2,760,006	\$2,983,205	\$2,185,396
Existing Debt P&I	\$1,331,794	\$1,328,941	\$1,330,123	\$868,016	\$874,420
Transfer In (Out)/Cap. Contrib.	\$27,600	\$62,000	\$88,000	\$3,600	\$5,500
Less: Capital Improvements	\$1,011,434	\$1,113,989	\$508,206	\$2,532,062	\$1,599,625
Debt Proceeds/Grants	\$0	\$0	-\$834,393	\$826,494	\$0
Reconcile to Audit	\$86,914	\$328,475	\$621,411	-\$469,997	\$591,437
Net Annual Cash Flow	\$619,320	\$395,288	\$796,695	(\$56,776)	\$308,288
Restricted and Unrestricted Cash Balance:					
Balance at first of year	\$4,027,357	\$4,646,677	\$5,041,965	\$5,838,660	\$5,781,884
Net Annual Cash Flow Addition/(subtraction)	\$619,320	\$395,288	\$796,695	-\$56,776	\$308,288
Balance at end of year	\$4,646,677	\$5,041,965	\$5,838,660	\$5,781,884	\$6,090,172

Notes:



## Table 4Water Utility Financial Benchmarking Analysis

City of Watertown, WI

		Act	ual		Estimated	Budget
	2020	2021	2022	2023	2024	2025
Target minimum cash balance						
Target minimum working capital - Ehlers <sup>1</sup>	3,442,609	3,444,203	2,903,240	3,166,867	3,349,198	3,529,172
Actual Days Cash Available - PSC <sup>2</sup>	812	748	777	864	705	954
Actual Days Cash Available - Moody's <sup>3</sup>	951	844	857	945	753	1,012
Actual Days Cash Available - S&P <sup>4</sup>	1,034	844	857	945	753	1,012
Actual working capital-cash balance	4,646,677	5,041,965	5,838,660	5,781,884	6,090,172	8,153,856
Over (Under) Ehlers target	1,204,068	1,597,763	2,935,420	2,615,017	2,740,974	4,624,684
Over (Under) PSC target (90 days)	722	658	687	774	615	864
Over (Under) Moody's target (150 days)	801	694	707	795	603	862
Over (Under) S&P target (150 days)	884	694	707	795	603	862

#### Notes:

1) Target capital equals 6 mos of next year's operating expenses, including depreciation, plus 100% of following year's debt.

2) PSC formula = O&M expense + taxes + interest on long term debt ÷ 365 to get expense per day. Then Unrestricted Cash ÷ expense per day

3) Moody's Formula = [(Unrestricted Cash + Liquid Investments) \* 365 days] ÷ Total O&M Expenses less Depreciation

4) S&P Formula = [(Unrestricted Cash + Liquid Investments) \* 365 days] ÷ Total O&M Expenses less Depreciation;

include designated reserve funds: ERFs, RSFs, etc

Rate of Return						
Average Utility Plant in Service	43,892,876	44,129,097	44,286,928	45,586,780	47,338,079	48,745,391
Plus: Materials and Supplies	115,334	113,299	126,481	146,172	125,322	125,322
Less: Avg. Utility Plant Accum. Depreciation	13,439,543	13,862,787	14,248,780	14,954,980	15,756,614	16,793,244
Less: Regulatory Liability	95,027	67,875	40,723	13,573	0	0
Average Net Investment Rate Base (NIRB)	30,473,640	30,311,734	30,123,906	30,764,399	31,706,786	32,077,468
Net Operating Income	1,762,242	1,542,041	1,687,224	1,729,257	1,036,079	1,988,803
ROR	5.78%	5.09%	5.60%	5.62%	3.27%	6.20%
Benchmark	4.90%	4.90%	4.90%	6.50%	6.30%	6.20%

Cost Recovery						
Operating Revenues	5,406,399	5,619,975	5,649,819	5,596,056	5,625,290	6,702,551
Operating Expenses incl. Depr & Amortization	3,862,974	4,227,336	4,228,159	4,070,448	4,584,894	4,942,029
Operating Expenses w/o Depr & Amortization	2,601,384	2,928,980	2,930,493	2,852,645	3,579,894	3,649,805
Cost Recovery incl. Depr	1.40	1.33	1.34	1.37	1.23	1.36
Cost Recovery w/o Depr	1.48	1.44	1.44	1.43	1.28	1.35
Target	1.00	1.00	1.00	1.00	1.00	1.00

### Notes:

This operating ratio indicates whether operating revenues (mostly charges to customers) were sufficient to cover operations and capital (in the form of depreciation) for the water and/or wastewater utility in the fiscal year.

A ratio of less than 1 could be a sign of financial concern. In general, this ratio should be higher than 1 to accommodate future capital investments.

Leverage							
Total Long-Term Debt	12,296,984	11,190,951	10,051,245	9,352,704	8,539,260	9,239,773	
Total Net Assets	54,953,475	54,566,009	55,262,741	57,272,948	58,872,573	60,087,573	
Debt-to Equity Ratio	0.22	0.21	0.18	0.16	0.15	0.15	



### Notes:

This indicator measures the existing level of leveraging of assets, and is used by funders and bond rating agencies to evaluate the risk of providing additional loans to the utility. The ratio indicates the amount of long-term debt that exists for every \$1 of assets (fund equity). A utility with a ratio greater than 1.0 has more long-term debt than equity in the system's assets. There are no natural benchmarks for this indicator, and funders and bond rating agencies will assess this ratio in various ways. In general, the higher this ratio, the more likely the utility will be considered to be over-leveraged and the more difficult it will be for the utility to obtain additional loans. For this ratio, Net Assets are equal to the Net Investment Rate Base of the utility.

Condition of Assets:						
Accumulated Depreciation Expense	17,528,568	17,703,325	18,749,358	19,571,589	20,576,589	21,868,814
Total Net Assets	54,953,475	54,566,009	55,262,741	57,272,948	58,872,573	60,087,573
Asset Depreciation	31.90%	32.44%	33.93%	34.17%	34.95%	36.39%

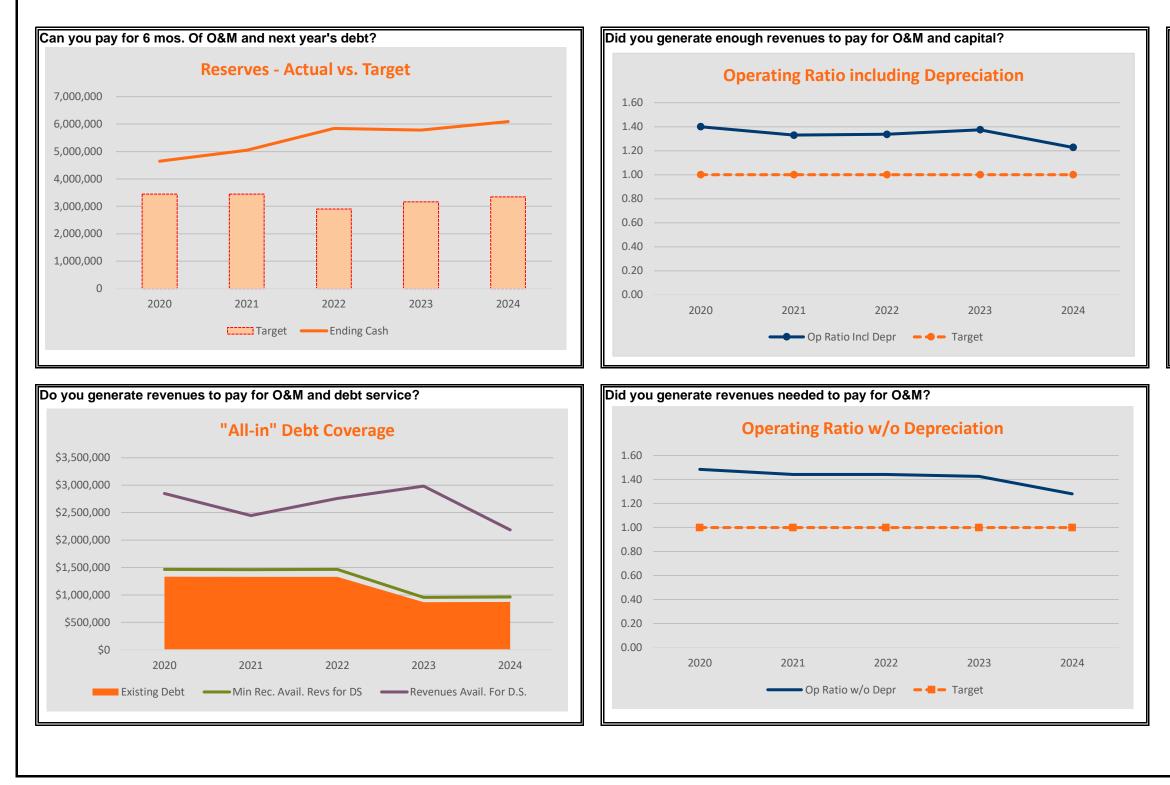
#### Notes:

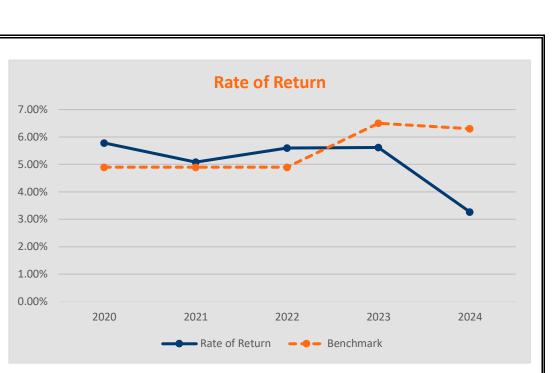
This indicator of infrastructure condition estimates the portion of the average expected life of the utility's physical assets that has already passed. As this ratio approaches 100%, the capital assets become fully depreciated, and infrastructure needs replacement or rehabilitation. The accuracy of this indicator relies heavily on the accuracy of the depreciation schedule, and historic pricing likely distorts this indicator (newer utilities may be slightly disadvantaged as a result).



## Table 5Water Utility Financial Health Charts

City of Watertown, WI







2024 Water Rate Study

### Section 2 — Long-Range Cash Flow Analysis

City of Watertown, WI



Vater Utility Capital Improvement Plan												
ity of Watertown, WI												
Projects	Funding	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Total
nnual well renovation and pump work (wells 6) nnual hydrant painting	Cash Cash	55,000 20,000										55,0 20,0
est Street Watertower paint job (phase 2 painting interior / exterior)	Revenue Debt	1,100,000										1,100,0
ater Leak Correlator	Cash	40,000										40,0
D 9 Johnson Street (1715')	TID 9	368,725										368,1
nnual hydrant painting	Cash		20,000									20,0
ell VFD's nnual well renovation and pump work (well 9)	Cash Cash		50,000 75,000									50,0 75,0
atermain loop projects (Highway 16 Bypass)	Cash		250,000									73, 250,
EWEY AVENUE PROJECT	Cash		1,000,000									1,000,
D 9 - Hoffmann Drive (Hoffmann to Fairview 900')	TID 9		193,500									193,
arket (S. Seventh to S Eighth 420')	Cash		90,300									90,
Eighth (Market to E. Main 300')	Cash		64,500	400.000								64,
nnual well renovation and pump work (well 9) nnual hydrant painting	Cash Cash			100,000 20,000								100, 20,
ospital Drive / interior paint job (pending ROV inspection)	Cash			500,000								20, 500,
atermain loop projects (Highway 16 Bypass)	Cash			150,000								150,
D 9 Hoffmann Drive (Fairview to Termini H2O Johnson to Hoffmann easement)	TID 9			118,250								118,
Twelfth (Falcon Court to Wilma Ct. 2,650')	Cash			569,750								569,
ilma Ct (S Twelfth to termini 260') nnual well renovation and pump work (1 or 2 pumps)	Cash Cash			55,900	100,000							55, 100,
nnual hydrant painting	Cash				20,000							20,
rpark Drive exterior paint job	Cash				500,000							20, 500,
AIN STREET PROJECT (2028 or 2029)	Revenue Debt				1,530,000							1,530,
D 9 Fairview Drive and Montgomery St (Hoffmann to Bernard)	TID 9				250,000							250,
nnual well renovation and pump work (1 or 2 pumps)	Cash					100,000						100,
nnual hydrant painting estern Tower exterior paint job	Cash					20,000 500,000						20, 500,
atermain loop projects (Concord - Humboldt)	Cash					125,000						500, 125,
ank Mixers	Cash					50,000						,20, 50,
D 9 - Hart Street Project area (90% plans ready for water, includes Stimpson)	TID 9					1,250,000						1,250,
D 9 Depot, Baxter, Stimpson	TID 9					716,595						716,
nnual hydrant painting	Cash						20,000					20,
ell VFD's ber connectivity to wells and treatment plants (add 6 splices for 9 wells, 5 storage	Cash						50,000					50,
ructures, and 3 treatment plants)	Cash						75,000					75,
ghth St Main St. to Western Ave (1,950')	Cash						500,000					500,
nnual well renovation and pump work (1 or 2 pumps)	Cash							100,000				100,
nnual hydrant painting	Cash							20,000				20,
Connell Tower exterior / interior paint job	Revenue Debt							1,500,000				1,500,
Mains (24,500' - @ 4,500 feet a year = 5-year removal) estern Ave - Third St. to Twelfth St.	Cash Cash							1,000,000 150,000				1,000, 150,
Seventh St Western to Station St.	Cash							125,000				130, 125,
nnual well renovation and pump work (1 or 2 pumps)	Cash							120,000	100,000			120, 100,
nnual hydrant painting	Cash								20,000			20,
. Green Street (N. Warren to WernerSt) 740'	Cash								159,100			159,
	Revenue Debt								1,000,000			1,000,
erry St. (Highland to Werner; 317') + Short St (Perry St. to Ann St.' 422')	Cash Cash								158,885	100,000		158,
nnual well renovation and pump work (1 or 2 pumps) nnual hydrant painting	Cash									20,000		100, 20,
E Tower exterior paint job	Cash									500,000		500,
ewert & Werner Streets	Cash									750,000		750,
Mains (year 3)	Revenue Debt									1,000,000		1,000,
nnual well renovation and pump work (1 or 2 pumps)	Cash										100,000	100,
nnual hydrant painting m Street (1,426')	Cash Cash										20,000 306,590	20, 306,
Mains (year 4)	Revenue Debt										1,000,000	306, 1,000,
sbon St (N Votech Dr. to Elba St + Lowell St. To Bonner St.; 1,320')	Cash										283,800	283,
ctual CIP Costs		1,583,725	1,743,300	1,513,900	2,400,000	2,761,595	645,000	2,895,000	1,437,985	2,370,000	,	,
ources of Funding		2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	
G.O. Debt Revenue Debt		0 1,100,000	0	0	0 1,530,000	0	0	0 1,500,000	0 1,000,000	0 1,000,000	0 1,000,000	7,130,
Grants/Aids		1,100,000	0	0	1,530,000	0	0	1,500,000	1,000,000	1,000,000	1,000,000	7,130,
Special Assessment		0	0	0	0	0	0	0	0	0	0	
User Fees		0	0	0	0	0	0	0	0	0	0	
Tax Levy		0	0	0	0	0	0	0	0	0	0	
Equipment Replacement Fund		0	0	0	0	0	0	0	0	0	0	
Cash Pll Funding		115,000	1,549,800	1,395,650	620,000	795,000	645,000		437,985	1,370,000	710,390	9,033
BIL Funding TID 9		0 368,725	0 193,500	0 118,250	0 250,000	0 1,966,595	0	0	0	0	0	2,897
nd 9 otal		300,725	193,500	110,200	200,000	1,900,090	0	0	1,437,985	0	0	2,097,



## Table 7Capital Improvements Financing Plan - Water

City of Watertown, WI

	2025				2027				2029			2031			2033	
	Revenue Bonds	Water Portion	TID 9 Portion		Revenue Bonds	Water Portion	TID 9 Portion		G.O. Notes	TID 9 Portion		Revenue Bonds	Water Portion		Revenue Bonds	Water Portion
	2025 Water and Storm Projects				2027 Water and Storm Projects				2029 Storm Projects			2031 Water Projects			2033 Water Projects	
P Projects <sup>1</sup>	110,000															
Sewer	-				- 1				-			-			-	
Water	1,100,000	1,100,000			1,530,000	1,530,000			-			2,500,000	2,500,000		2,000,000	2,000,000
TID 9	562,225		562,225		368,250		368,250		1,966,595	1,966,595		-			-	
Subtotal Project Costs	1,662,225	1,100,000	562,225		1,898,250	1,530,000	368,250		1,966,595	1,966,595		2,500,000	2,500,000		2,000,000	2,000,000
IP Projects <sup>1</sup>	1,662,225	1,100,000	562,225		1,898,250	1,530,000	368,250		1,966,595	1,966,595		2,500,000	2,500,000		2,000,000	2,000,000
ess Other Available Revenues																
Cash Available	(100,000)	(100,000)	0		(250,000)	(250,000)	0		-	0		(500,000)	(500,000)		(500,000)	(500,000
Net Borrowing Requirement	1,562,225	1,000,000	562,225		1,648,250	1,280,000	368,250		1,966,595	1,966,595		2,000,000	2,000,000		1,500,000	1,500,00
ebt Service Reserve																
Debt Service Reserve Funds On Hand	(453,078)	(453,078)	0		(850,022)	(800,022)	(50,000)		-	0		(782,088)	(782,088)		(697,762)	(697,762
New Debt Service Reserve Requirement	850,022	800,022	50,000		782,088	722,088	60,000		-	0		697,762	697,762		#VALUE!	#VALUE
Subtotal Reserve Fund Requirement	396,944	346,944	50,000		(67,933)	(77,933)	10,000		0	0		(84,326)	(84,326)		#VALUE!	#VALUE
timated Issuance Expenses	112,175	77,155	35,020		109,063	82,861	26,201		114,838	114,838		116,475	116,475		107,963	107,96
Municipal Advisor (Ehlers)	35,700	24,555	11,145		37,400	28,415	8,985		38,300	38,300		40,500	40,500		38,300	38,300
Bond Counsel	20,000	13,756	6,244		20,000	15,195	4,805		20,000	20,000		20,000	20,000		20,000	20,000
Disclosure Counsel	14,000	9,629	4,371		14,000	10,637	3,363		14,000	14,000		14,000	14,000		14,000	14,000
Rating Fee	16,000	11,005	4,995		16,000	12,156	3,844		16,000	16,000		16,000			16,000	
Maximum Underwriter's Discount 12.50	25,625	17,625	8,000	12.50	20,813	15,813	5,000	12.50	25,688	25,688	12.50	25,125	25,125	12.50	18,813	18,813
Paying Agent	850	585	265		850	646	204		850	850		850	850		850	850
Subtotal Issuance Expenses	112,175	77,155	35,020		109,063	82,861	26,201		114,838	114,838		116,475	116,475		107,963	107,963
OTAL TO BE FINANCED	2,071,344	1,424,098	647,245		1,689,379	1,284,928	404,451		2,081,433	2,081,433		2,032,149	2,032,149		#VALUE!	#VALUE!
timated Interest Earnings3.00%usumed spend down (months)6.00	(24,933)	(16,500)	(8,433)	3.00% 6.00	(28,474)	(22,950)	(5,524)	3.00% 6.00	(29 <i>,</i> 499)	(29,499)	3.00% 6.00	(37,500)	(37,500)	3.00% 6.00	(30,000)	(30,000
ounding	3,590	2,402	1,188		4,094	3,022	1,073		3,066	3,066		15,351	15,351		#VALUE!	#VALUE!
ET BOND SIZE	2,050,000	1,410,000	640,000		1,665,000	1,265,000	400,000		2,055,000	2,055,000		2,010,000	2,010,000		1,505,000	1,505,000

### Notes:

1) Source of Project Totals



## Table 8Water Utility Projected Debt Service Payments (PROPOSED)

City of Watertown, WI

NAME AMT DATED	V	Vater Rever Series 2 \$1,410 6/1/2	2025A ),000			Water Reve Series \$1,26 6/1/	2027A 5,000	S	v	Vater Reve Series \$2,010 6/1/2	2031A ),000	S	W	ater Reve/ Series 3 \$1,505 6/1/2	2033A 5,000	5	PROPO	DSED Water	Utility Debt	Service Summary	/
IATURE		5/				5/				5/				5/							
Year	Principal	Est. Rate <sup>1</sup>	Interest	Total	Principal	Est. Rate <sup>1</sup>	Interest	Total	Principal	Est. Rate	Interest	Total	Principal	Est. Rate	Interest	Total	Total Prin	Total Int	Total P&I	Prin Outstanding	Year
2025																	0	0	0	1,410,000	2025
2026	0	5.00%	99,875	99,875													0	99,875	99,875	1,410,000	2026
2027	50,000	5.00%	69,250	119,250													50,000	69,250	119,250	2,625,000	2027
2028	65,000	5.00%	66,375	131,375	0	5.00%	89,604	89,604									65,000	155,979	220,979	2,560,000	2028
2029	65,000	5.00%	63,125	128,125	35,000	5.00%	62,375	97,375									100,000	125,500	225,500		2029
2030	65,000	5.00% 5.00%	59,875	124,875	35,000	5.00%	60,625	95,625									100,000	120,500	220,500		2030
2031 2032	65,000 65,000	5.00% 5.00%	56,625 53,375	121,625 118,375	35,000 35,000	5.00% 5.00%	58,875 57,125	93,875 92,125	0	5.00%	142,375	142,375					100,000 100,000	115,500 252,875	215,500 352,875	4,270,000 4,170,000	2031 2032
2032	180,000	5.00%	47,250	227,250	35,000	5.00%	57,125	92,125 90,375	70,000	5.00%	142,375 98,750	142,375					285,000	252,875 201,375	486,375	5,390,000	2032
2035	60,000	5.00%	47,250 41,250	101,250	35,000	5.00%	53,625	90,375 88,625	50,000	5.00%	98,750 95,750	168,750	0	5.00%	106,604	106,604	145,000	201,373	480,373	5,245,000	2032
2034	60,000	5.00%	38,250	98,250	35,000	5.00%	51,875	86,875	50,000	5.00%	93,730 93,250	143,750	40,000	5.00%	74,250	114,250	145,000	257,625	442,229	5,060,000	2034
2036	60,000	5.00%	35,250	95,250	40,000	5.00%	50,000	90,000	55,000	5.00%	90,625	145,625	40,000	5.00%	72,250	112,250	195,000	248,125	443,125	4,865,000	2036
2037	60,000	5.00%	32,250	92,250	50,000	5.00%	47,750	97,750	55,000	5.00%	87,875	142,875	40,000	5.00%	70,250	110,250	205,000	238,125	443,125	4,660,000	2037
2038	120,000	5.00%	27,750	147,750	80,000	5.00%	44,500	124,500	115,000	5.00%	83,625	198,625	95,000	5.00%	66,875	161,875	410,000	222,750	632,750	4,250,000	2038
2039	120,000	5.00%	21,750	141,750	90,000	5.00%	40,250	130,250	125,000	5.00%	77,625	202,625	95,000	5.00%	62,125	157,125	430,000	201,750	631,750	3,820,000	2039
2040	120,000	5.00%	15,750	135,750	100,000	5.00%	35,500	135,500	125,000	5.00%	, 71,375	196,375	105,000	5.00%	57,125	162,125	450,000	179,750	629,750		2040
2041	120,000	5.00%	9,750	129,750	120,000	5.00%	30,000	150,000	125,000	5.00%	65,125	190,125	105,000	5.00%	51,875	156,875	470,000	156,750	626,750		2041
2042	135,000	5.00%	3,375	138,375	125,000	5.00%	23,875	148,875	125,000	5.00%	58,875	183,875	105,000	5.00%	46,625	151,625	490,000	132,750	622,750	2,410,000	2042
2043	0	5.00%	0		125,000	5.00%	17,625	142,625	125,000	5.00%	52,625	177,625	105,000	5.00%	41,375	146,375	355,000	111,625	466,625	2,055,000	2043
2044	0	5.00%	0		125,000	5.00%	11,375	136,375	130,000	5.00%	46,250	176,250	115,000	5.00%	35,875	150,875	370,000	93,500	463,500	1,685,000	2044
2045	0	5.00%	0		125,000	5.00%	5,125	130,125	135,000	5.00%	39,625	174,625	125,000	5.00%	29,875	154,875	385,000	74,625	459,625	1,300,000	2045
2046					40,000	5.00%	1,000	41,000	135,000	5.00%	32,875	167,875	125,000	5.00%	23,625	148,625	300,000	57,500	357,500	1,000,000	2046
2047					0	5.00%	0		135,000	5.00%	26,125	161,125	135,000	5.00%	17,125	152,125	270,000	43,250	313,250	730,000	2047
2048									135,000	5.00%	19,375	154,375	135,000	5.00%	10,375	145,375	270,000	29,750	299,750	460,000	2048
2049									135,000	5.00%	12,625	147,625	140,000	5.00%	3,500	143,500	275,000	16,125	291,125	185,000	2049
2050									185,000	5.00%	4,625	189,625	0	5.00%	0		185,000	4,625	189,625	0	2050
2051									0	5.00%	0		0	5.00%	0		0	0	0	0	2051
2052													0	5.00%	0		0	0	0	0	2052
2053													0	5.00%	0		0	0	0	0	2053
2054																	0	0	0	0	2054
TOTALS	1,410,000		741,125	2,151,125	1,265,000		796,479	2,061,479	2,010,000		1,199,375	3,209,375	1,505,000		769,729	2,274,729	6,190,000	3,506,708	9,696,708		тот

Notes:

Legend:

Maturities subject to optional redemption (callable) based on current call vs. non-call.

1) Rate assumes recent WI Rev sale plus 50 bps (or 0.50%).



## Table 9Water Utility Cash Flow Analysis - Projected 2025-2034

City of Watertown, WI

	Budget					Projected				
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Revenues										
Total Revenues from User Rates <sup>1</sup>	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051	\$6,520,051
Percent Increase to User Rates	19.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Cumulative Percent Rate Increase	19.79%	19.79%	19.79%	19.79%	19.79%	19.79%	19.79%	19.79%	19.79%	19.79%
Dollar Amount Increase to Revenues	\$1,077,261	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Other Revenues	\$322,500	\$347,402	\$228,857	\$238,452	\$237,183	\$233,467	\$239,711	\$243,581	\$290,247	\$292,759
Total Revenues	\$6,842,551	\$6,867,453	\$6,748,908	\$6,758,503	\$6,757,235	\$6,753,518	\$6,759,762	\$6,763,632	\$6,810,298	\$6,812,810
Less: Expenses										
Operating and Maintenance <sup>2</sup>	\$2,774,305	\$2,857,534	\$2,943,260	\$3,031,557	\$3,122,504	\$3,216,179	\$3,312,665	\$3,412,045	\$3,514,406	\$3,619,838
PILOT Payment	\$875,500	\$906,143	\$937,857	\$970,682	\$1,004,656	\$1,039,819	\$1,076,213	\$1,113,880	\$1,152,866	\$1,193,217
Net Before Debt Service and Capital Expenditures	\$3,192,747	\$3,103,777	\$2,867,791	\$2,756,263	\$2,630,074	\$2,497,519	\$2,370,884	\$2,237,707	\$2,143,026	\$1,999,756
Debt Service										
Existing Debt P&I	\$878,183	\$876,721	\$870,182	\$764,998	\$766,087	\$766,855	\$767,297	\$767,562	\$630,100	\$629,999
New (2025-2034) Debt Service P&I	\$0	\$99,875	\$119,250	\$220,979	\$225,500	\$220,500	\$215,500	\$352,875	\$486,375	\$442,229
Total Debt Service	\$878,183	\$976,596	\$989,432	\$985,977	\$991,587	\$987,355	\$982,797	\$1,120,437	\$1,116,475	\$1,072,228
Transfer In (Out)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Less: Capital Improvements & COI	\$1,660,880	\$1,743,300	\$1,596,761	\$2,400,000	\$2,761,595	\$645,000	\$3,011,475	\$1,437,985	\$2,477,963	\$1,710,390
Debt Proceeds	\$1,410,000	\$0	\$1,265,000	\$0	\$0	\$0	\$2,010,000	\$0	\$1,505,000	\$0
Net Annual Cash Flow	\$2,063,684	\$383,881	\$1,546,598	(\$629,714)	(\$1,123,108)	\$865,164	\$386,612	(\$320,714)	\$53,589	(\$782,862)
Restricted and Unrestricted Cash Balance:										
Balance at first of year	\$6,090,172	\$8,153,856	\$8,537,737	\$10,084,334	\$9,454,620	\$8,331,513	\$9,196,677	\$9,583,289	\$9,262,575	\$9,316,164
Net Annual Cash Flow Addition/(subtraction)	\$2,063,684	\$383,881	\$1,546,598	-\$629,714	-\$1,123,108	\$865,164	\$386,612	-\$320,714	\$53,589	-\$782,862
Balance at end of year	\$8,153,856	\$8,537,737	\$10,084,334	\$9,454,620	\$8,331,513	\$9,196,677	\$9,583,289	\$9,262,575	\$9,316,164	\$8,533,302
"All-in" Debt Coverage	3.64	3.18	2.90	2.80	2.65	2.53	2.41	2.00	1.92	1.87
PSC Days Cash on Hand	864	912	1,079	953	816	888	907	817	813	697
Notes:			Ļ	.egend:		,				
1) Assumes no changes in customer count or usage be	•				implified Rate Case		y)			
2) Assumes 3.00% annual inflation beyond budget yea	I <b>Г</b> .				Conventional (Full) Ra	ate Case				



## Table 10Water Utility Financial Benchmarking Analysis Projected 2025 - 2034

City of Watertown, WI

	Budget					Projected				
	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Target minimum cash balance										
Target minimum working capital - Ehlers <sup>1</sup>	3,529,172	3,628,542	3,716,223	3,815,818	3,889,835	3,977,611	4,228,498	4,327,669	4,396,225	4,492,862
Actual Days Cash Available - PSC <sup>2</sup>	954	1,002	1,169	1,043	906	978	997	907	903	787
Actual Days Cash Available - Moody's <sup>3</sup>	1,012	1,091	1,251	1,138	974	1,044	1,056	991	968	860
Actual Days Cash Available - S&P <sup>4</sup>	1,012	1,091	1,251	1,138	974	1,044	1,056	991	968	860
Actual working capital-cash balance	8,153,856	8,537,737	10,084,334	9,454,620	8,331,513	9,196,677	9,583,289	9,262,575	9,316,164	8,533,302
Over (Under) Ehlers target	4,624,684	4,909,194	6,368,111	5,638,802	4,441,678	5,219,066	5,354,792	4,934,906	4,919,939	4,040,439
Over (Under) PSC target (90 days)	864	912	1,079	953	816	888	907	817	813	697
Over (Under) Moody's target (150 days)	862	941	1,101	988	824	894	906	841	818	710
Over (Under) S&P target (150 days)	862	941	1,101	988	824	894	906	841	818	710

#### Notes:

1) Target capital equals 6 mos of next year's operating expenses, including depreciation, plus 100% of following year's debt.

2) PSC formula = O&M expense + taxes + interest on long term debt ÷ 365 to get expense per day. Then Unrestricted Cash ÷ expense per day

3) Moody's Formula = [(Unrestricted Cash + Liquid Investments) \* 365 days] ÷ Total O&M Expenses less Depreciation

4) S&P Formula = [(Unrestricted Cash + Liquid Investments) \* 365 days] ÷ Total O&M Expenses less Depreciation; include designated reserve funds: ERFs, RSFs, etc

Rate of Return										
Average Utility Plant in Service	48,745,391	50,127,791	51,600,516	53,373,341	54,845,841	55,565,841	57,335,841	59,502,334	61,406,326	63,446,521
Plus: Materials and Supplies	125,322	125,322	125,322	125,322	125,322	125,322	125,322	125,322	125,322	125,322
Less: Avg.Utility Plant Accum. Depreciation	16,793,244	17,688,088	18,460,915	19,217,105	20,110,477	21,237,327	22,141,402	23,016,971	24,035,348	25,092,045
Less: Regulatory Liability	0	0	0	0	0	0	0	0	0	0
Average Net Investment Rate Base (NIRB)	32,077,468	32,565,025	33,264,923	34,281,557	34,860,686	34,453,835	35,319,761	36,610,684	37,496,300	38,479,797
Net Operating Income	1,988,803	1,827,506	1,656,280	1,475,870	1,289,779	1,135,182	952,432	727,875	523,566	299,936
ROR	6.20%	5.61%	4.98%	4.31%	3.70%	3.29%	2.70%	1.99%	1.40%	0.78%
PSC Projected Benchmark	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%	6.20%
Rate Adj. to Benchmark	0.00%	2.94%	6.23%	9.96%	13.37%	15.35%	18.98%	23.65%	27.63%	31.99%
Cost Recovery										
Operating Revenues	6,702,551	6,704,376	6,706,219	6,708,081	6,709,961	6,711,861	6,713,779	6,715,716	6,717,673	6,719,649
Operating Expenses incl. Depr & Amortization	4,066,529	4,199,008	4,340,363	4,489,809	4,643,807	4,765,140	4,913,415	5,102,241	5,269,521	5,454,777
Operating Expenses w/o Depr & Amortization	2,774,305	2,857,534	2,943,260	3,031,557	3,122,504	3,216,179	3,312,665	3,412,045	3,514,406	3,619,838
Cost Recovery incl. Depr	1.65	1.60	1.55	1.49	1.44	1.41	1.37	1.32	1.27	1.23
Cost Recovery w/o Depr	1.47	1.47	1.47	1.48	1.49	1.48	1.48	1.50	1.50	1.51
Target	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

#### Notes:

This operating ratio indicates whether operating revenues (mostly charges to customers) were sufficient to cover operations and capital (in the form of depreciation) for the water and/or wastewater utility in the fiscal year. A ratio of < 1 could be a sign of financial concern. In general, this ratio should be > 1 to accommodate future capital investments.

Leverage										
Total Long-Term Debt	9,239,773	8,515,945	8,997,602	8,289,566	7,531,656	6,758,687	7,980,470	7,176,815	7,817,527	7,082,405
Total Net Assets	60,087,573	61,637,373	63,033,023	65,183,023	65,978,023	66,623,023	69,518,023	70,956,008	73,326,008	75,036,398
Debt-to Equity Ratio	0.15	0.14	0.14	0.13	0.11	0.10	0.11	0.10	0.11	0.09

#### Notes:

This indicator measures the existing level of leveraging of assets, and is used by funders and rating agencies to evaluate the risk of providing additional loans to the utility. The ratio indicates the amount of long-term debt that exists for every \$1 of assets (fund equity). A utility with a ratio > 1 has more long-term debt than equity in the system's assets. There are no natural benchmarks for this indicator, and funders and rating agencies will assess this ratio in various ways. In general, the higher this ratio, the more likely the utility will be considered to be over-leveraged and the more difficult it will be for the utility to obtain additional loans. Net Assets are equal to the Net Investment Rate Base of the utility.

	Condition of Assets:										
	Accumulated Depreciation Expense	16,793,244	17,688,088	18,460,915	19,217,105	20,110,477	21,237,327	22,141,402	23,016,971	24,035,348	25,092,045
	Total Net Assets	60,087,573	61,637,373	63,033,023	65,183,023	65,978,023	66,623,023	69,518,023	70,956,008	73,326,008	75,036,398
	Asset Depreciation	27.95%	28.70%	29.29%	29.48%	30.48%	31.88%	31.85%	32.44%	32.78%	33.44%
ł											
	Notes:										

### Notes:

This indicator of infrastructure condition estimates the portion of the average expected life of the utility's physical assets that has already passed. As this ratio approaches 100%, the capital assets become fully depreciated, and infrastructure needs replacement or rehabilitation. The accuracy of this indicator relies heavily on the accuracy of the depreciation schedule, and historic pricing likely distorts this indicator (newer utilities may be slightly disadvantaged as a result).



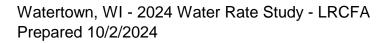
# Table 11Water Utility Statement of Projected Revenue Bond Coverage

City of Watertown, WI

			Less:		Existing Rev Debt	Future Rev Debt (2025-2034)			
Year	Total Operating Revenues	Transfers In (Out)	Total O&M Expense	Amount Available for Debt Service	Total	Total	Total Water Debt Service	Coverage	Debt Service Capacity @ 1.25x
2025	6,842,551	0	(2,774,305)	4,068,247	878,183	-	878,183	4.63	2,376,414
2026	6,867,453	0	(2,857,534)	4,009,920	876,721	99,875	976,596	4.11	2,231,340
2027	6,748,908	0	(2,943,260)	3,805,649	870,182	119,250	989,432	3.85	2,055,087
2028	6,758,503	0	(3,031,557)	3,726,945	764,998	220,979	985,977	3.78	1,995,579
2029	6,757,235	0	(3,122,504)	3,634,730	766,087	225,500	991,587	3.67	1,916,198
2030	6,753,518	0	(3,216,179)	3,537,339	766,855	220,500	987,355	3.58	1,842,516
2031	6,759,762	0	(3,312,665)	3,447,097	767,297	215,500	982,797	3.51	1,774,881
2032	6,763,632	0	(3,412,045)	3,351,588	767,562	352,875	1,120,437	2.99	1,560,833
2033	6,810,298	0	(3,514,406)	3,295,892	630,100	486,375	1,116,475	2.95	1,520,239
2034	6,812,810	0	(3,619,838)	3,192,972	629,999	442,229	1,072,228	2.98	1,482,150
2035	6,806,978	0	(3,728,433)	3,078,545	629,895	442,625	1,072,520	2.87	1,390,315
2036	6,816,704	0	(3,840,286)	2,976,418	629,790	443,125	1,072,915	2.77	1,308,219
2037	6,824,993	0	(3,955,495)	2,869,498	629,683	443,125	1,072,808	2.67	1,222,791
2038	6,824,993	0	(4,074,160)	2,750,834	-	632,750	632,750	4.35	1,567,917
2039	6,824,993	0	(4,196,384)	2,628,609	-	631,750	631,750	4.16	1,471,137
2040	6,824,993	0	(4,322,276)	2,502,717	-	629,750	629,750	3.97	1,372,424
2041	6,824,993	0	(4,451,944)	2,373,049	-	626,750	626,750	3.79	1,271,689
2042	6,824,993	0	(4,585,503)	2,373,049	-	622,750	622,750	3.81	1,275,689

### Notes:

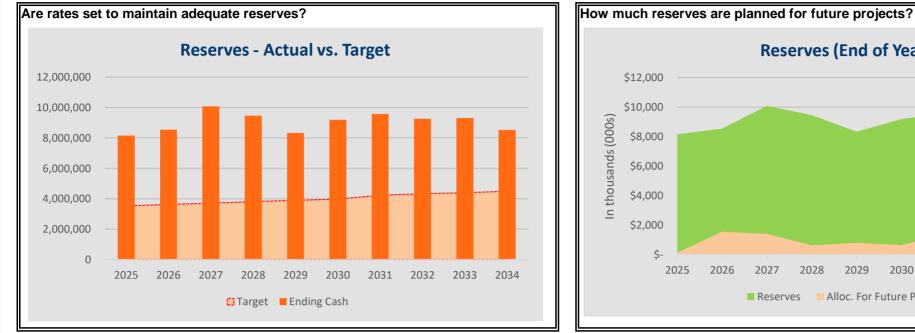
1) Revenue Coverage determined from 2012 Revenue Bonds.

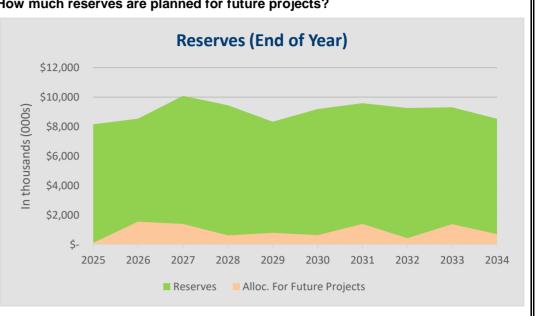


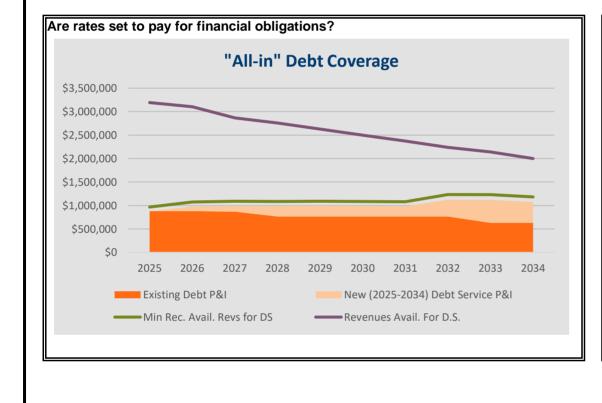


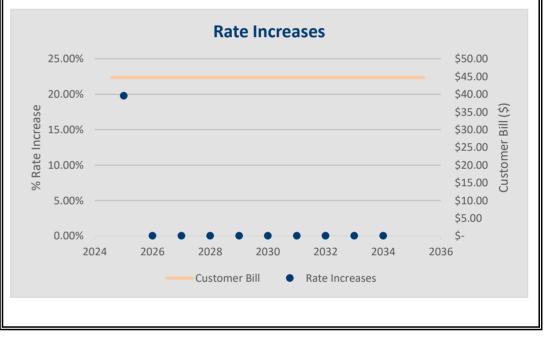
### Table 12 Water Utility Long-Range Planning Analysis

City of Watertown, WI









Watertown, WI - 2024 Water Rate Study - LRCFA Prepared 10/2/2024



### 2024 Water Rate Study

Section 3 — Rate Impact Analysis

City of Watertown, WI



## Table 13Projected Impact of CIP on Typical Residential Utility Bill

City of Watertown, WI

			Wate	er	_				Sewe	r				Storn	nwater	_			_		
Year	Increase	Water Vol. Charge <sup>1</sup>	Water User Charge <sup>2</sup>	Utility Bill (Monthly)		nge Over or Year	Increase	Sewer Vol. Charge <sup>3</sup>	Sewer User Charge <sup>3</sup>	Utility Bill (Monthly)	Change Over Prior Year	h	ncrease	Storm User Charge⁵	Utility Bill (Monthly)	Change Over Prior Year		Utility Bill (Annual)	Change Over Prior Year	% of MHI (67,189)	Year
		<u>Tiered</u>	<u>Serv. + PFP</u>					<u>100CF</u>	Gen Service					<u>Per ERU</u>			Γ				
2024		3.80	17.00	\$ 37.33				3.51	21.78	\$ 40.56				10.39	\$ 10.39			\$ 1,059.34		1.58%	2024
2025	19.79%	4.55	20.36	\$ 44.72	\$	7.39	0.00%	3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$ 88.66	1.71%	2025
2026	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2026
2027	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2027
2028	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2028
2029	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$-		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2029
2030	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$ -		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2030
2031	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$ -		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2031
2032	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$ -		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2032
2033	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$ -		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2033
2034	0.00%	4.55	20.36	\$ 44.72	\$	-	0.00%	3.51	21.78	\$ 40.56	\$ -		0.00%	10.39	\$ 10.39	\$-		\$ 1,148.00	\$-	1.71%	2034
<b>Total Change</b>	e over plann	ing period			\$	7.39					\$ -					\$-			\$ 88.66		

### Notes:

1. Current water volumetric rate is \$3.80 per 100 cubic feet for the first 1600 cubic feet monthly

2. The water user charges include a monthly service charge of \$8.40 plus a public fire protection charge of \$8.60 for a 5/8 inch meter.

3. The current Sewer volumetric rate is \$3.51 per 100 cubic feet and a service charge of \$21.78 for 5/8 inch meter.

4. The usage is assumed to be 535 CF per month.

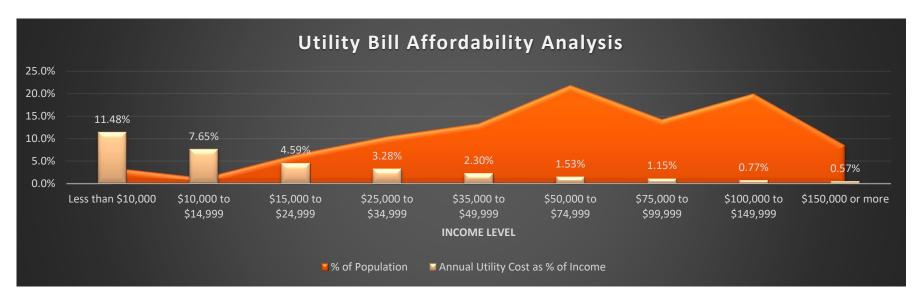
5. The current stormwater rate is \$10.39 per ERU for a Single Family user (plus \$2.13 admin fee per customer)

6. No Sewer or Stormwater Analysis completed to date. Sewer Analysis planned for 2025.



## Table 14Projected Impact of CIP on Typical Residential Utility Bill - Affordability

City of Watertown, WI



### Notes:

1) Utility Cost taken as a 5-year average of water, wastewater, electric and stormwater bills for an average (5/8"; 3,250 gal./mo.) Residential User.

2) City Income Level from U.S. Census Bureau's American Community Survey.

3) 11.4% of residential customers are estimated to have less than \$25,000 of income. These households will have spent more than

7.91% of their income under the 5-year average for this plan.



Section 4, Item I.



## MEMO

### **Fire Department**

To: Public Works Committee

From: Chief Reynen

Date: 9/30/2024

Subject: New Fire Station Owner Provided Purchases

### Background

The Fire Department has worked with vendors to provide quotes for essential equipment in the fire department infrastructure. Quotes were provided with an eye towards future sustainability for the following areas: Paging/Alerting system, Station Radio, Access Control, AV Equipment, and Security Cameras. The city has an agreement in place with Digicorp as our sole source for general IT work that needs to be done to prepare for the systems below.

### Paging/Alerting:

Paging/Alerting is how personnel know there is a call for service. Technology has evolved significantly and can provide much more information visually to ensure a safe and proper response. The Fire Department has worked closely with the Phoenix G2 system to design a system that has improved interoperability in the future and improved data recovery. Phoenix G2 has a sole source in our are for purchase, through Gencom. Recommendation to approve this bid.

Phoenix G2 Alerting System	\$292,213.00
via Gencom	



## MEMO

### **Station Radios**

Station Radios allow for staff to communicate immediately with dispatch or others via radio after being tone for a call. These are radios that are in offices, work space and living areas of the station that allow for hearing incident updates and monitoring while in house. Quotes were obtained from two companies that install radio systems. This system was designed to be flexible enough to support Emergency Operations Center and daily operations. These are not fixtures as they can be moved to a new location if necessary. The radio system is designed to have functionality and flexibility built in that will support future needs of the station and department and is the recommended bid for the station needs.

Gencom Station Radios	\$62,813.22
Baycom Station Radios	\$92,009.82

### Access Control

Modern access control in buildings an essential aspect in security and safety of not only personnel but the information and equipment within the building. Most new construction buildings have gone keyless in all aspects of access control security. Three companies were contacted for bids and assessments of the systems they provide, one did not meet our needs so is not listed here. Baycom is the recommended bid for access control due to the annual cost to utilize the system, warranty and product design.

Baycom	\$39,929.93	\$2,700 annual cost 2026
LaForce	\$57,663.88	\$6,614 annual cost 2026

### AV Equipment Training Room

The scope of this work includes TV's, podium, microphones and speakers in the Training Room which will also function as the EOC. This equipment is not a fixture as it could be moved into a new station. There were multiple bids obtained with the recommendation to award the bid to Camera Corner.

Camera Corner	\$70,223.46
Majic Productions	\$82,208.10



MEMO

### Security Cameras

The scope of this work includes cameras on both the interior and exterior of the building in strategic areas to ensure security and reduce liability. The exterior of the building has full coverage aside from the area of the baby box drop off. The medication room where narcotics are stored, lobby and vestibule are the three cameras inside the building. There is an added budgetary quote of \$3,134 which would add a camera in an area that would cover the rear of the training tower if possible. This would protect the entrance into the back lot and allow for a 360 monitoring the training tower. DigiCorp is considered a sole source provider for this work as every city camera is on this same system.

Digicorp Cameras	\$29,702.00
Added Camera	\$3,134.00

### **Phones**

The scope of this work includes desktop and wall mounted phones throughout the building. This is an initial quote for budgetary planning. Convergent is considered a sole source provider for this work as every city phone is on this same system.

<b>Convergent Solutions</b>	\$13,954.46
-----------------------------	-------------

## **Budget Goal**

- 1. Maintains a safe and healthy community, with an eye toward future needs and trends.
- 2. Supports employee retention and growth, while also evaluating operations and the associated staffing.
- 3. Fosters community growth by assessing opportunities, stakeholder input, environmental needs and modern code and policy priorities.

## **Financial Impact**

See below for financial impact on the Fire Station project budget.

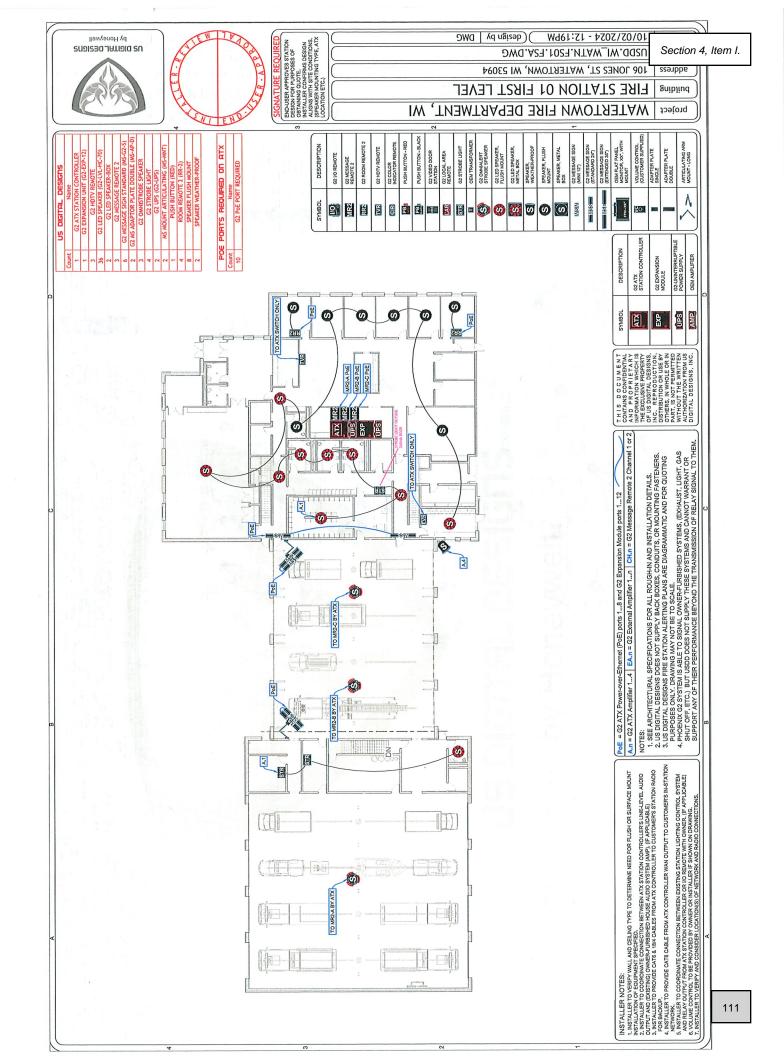


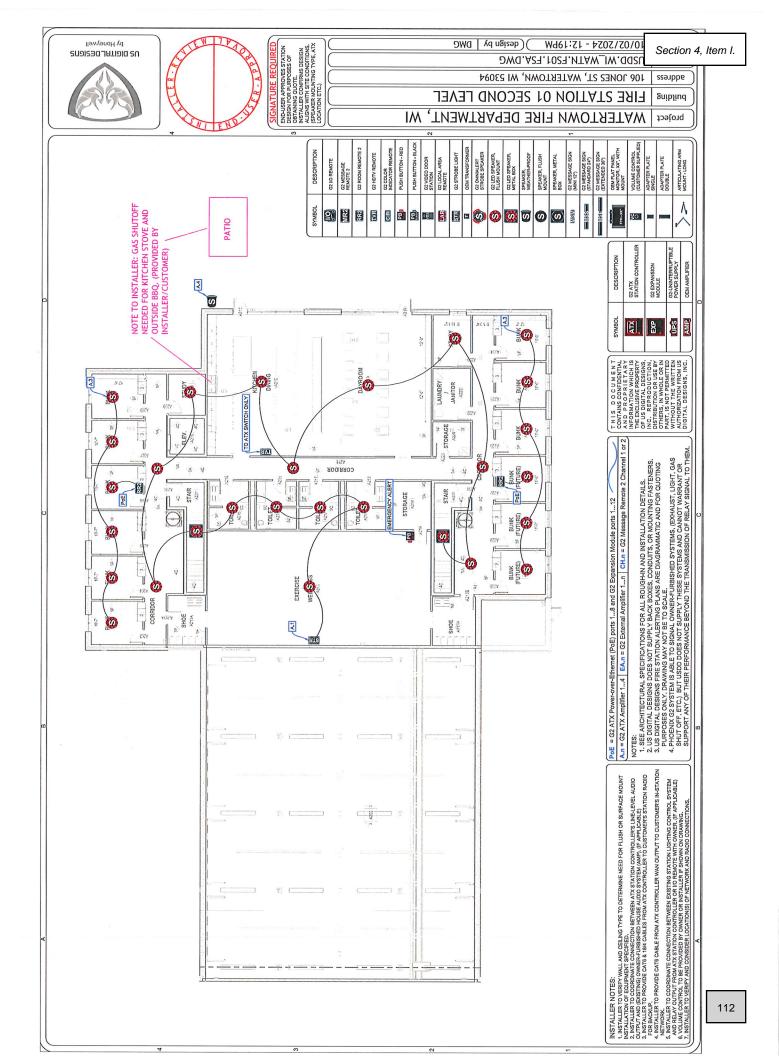


## Recommendation

Recommend approval of the following quotes to sign into contract:

Phoenix G2 Alerting System via Gencom	\$292,213.00
Gencom Station Radios	\$62,813.22
Baycom Access Control	\$39,929.93
Camera Corner AV Equipment	\$70,223.46
Digicorp Cameras	\$29,702.00
	\$3,134.00
Convergent Solutions	\$13,954.46







Madison - (608)271-4848 Milwaukee - (262)439-2000 Eau Claire - (715)225-7604 McHenry - (815)385-4224 800-356-3200 | www.gencomm.com

Sales Quote No: 34422 Date: 10/2/24 Account No: 2834

Bill To:	106 Jo	town Fire Department ones Street town, WI 53094	Ship To:	Watertown Fin Attn: Tanya R 106 Jones Stra Watertown, W USA	eynen eet	nt	
LABORSERV-MF		Headend equipment installation and final testing		1.00	Each	\$6,000.00	\$6,000.00
LABORSERV-MF		Project Management		1.00	Each	\$4,000.00	\$4,000.00
SERVMISC		Installation materials including all cabling, cable management		1.00	Each	\$2,000.00	\$2,000.00
Dan Martin Enterprises		Cable Installation - Subcontractor		1.00	Each	\$10,000.00	\$10,000.00
Freight		Incoming Freight		1.00	Each	\$2,087.00	\$2,087.00
PRODNEEDED		Primary Dispatch G2 FSA System - Watertown FD Dispatch		1.00	Each	\$59,569.00	\$59,569.00
PRODNEEDED		PRIMARY DISPATCH G2 FSA SYSTEM - Jefferson County Dispatch		1.00	Each	\$56,002.00	\$56,002.00
PRODNEEDED		PRIMARY DISPATCH G2 FSA SYSTEM - Dodge County Dispatch		1.00	Each	\$56,002.00	\$56,002.00
					- 201	2 a 1	
- 5-							
				s na chu			
					20		
P					5 Sec		
				Charles and	a 12		
-					8.00		
					1		
					* , - D		
						е	
				0			
		ccepted within 30 days of purchase and require an RMA number. Items must l ginal packaging. Special order items are non-returnable and may not be cance				Subtotal	\$292,213.00
once shipped from		manufacturer. Radio and infrastructure equipment/manufacturers carry a 25%				Freight	\$0.00
restocking fee.						Sales Tax	\$0.00
					Sa	ales Order Total	\$292,213.00

 $\ast$  A 3% surcharge applies to all credit card payments.

Unless otherwise specified, shipping and handling charges are not included and will be added to the associated invoice.

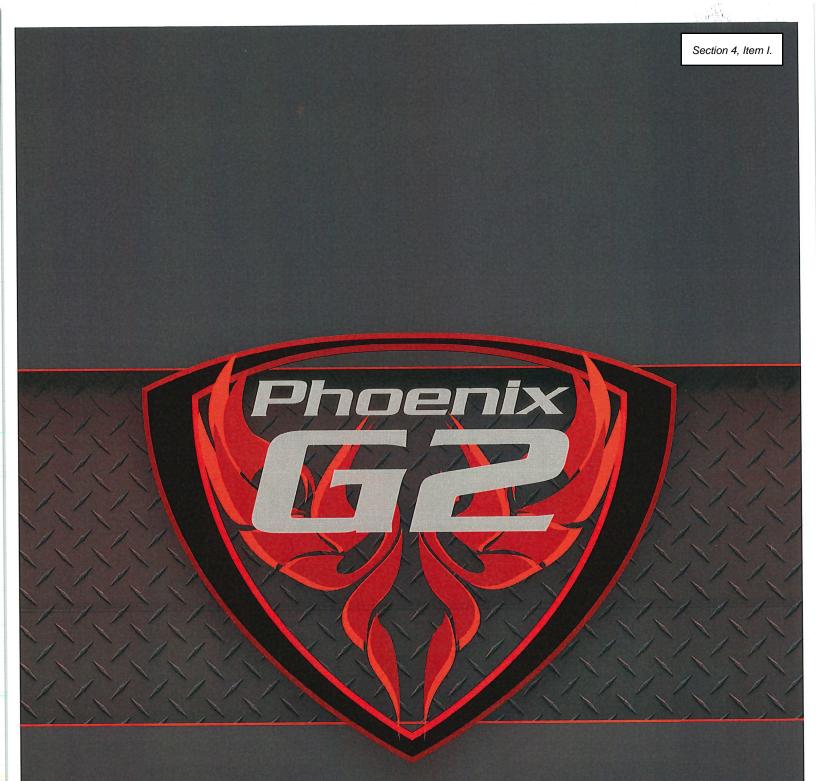
Page



Bill To: Watertown Fire Department 106 Jones Street Watertown, WI 53094 USA Sales Quote No: 34422 Date: 10/2/24 Account No: 2834

Ship To: Watertown Fire Department Attn: Tanya Reynen 106 Jones Street Watertown, WI 53094 USA

Sales Person	P.O. Number	Ship Method	Paym	nent Terms		Quote Expires On
Scott Lesniewski	Scott Lesniewski Alerting Station Full Project		NE	F 30 Days		11/1/24
		Notes		and showing the	ANG BALL	
Item No	Descriptio	on	Quantity	UM	Price	Amour
VA	G2 VoiceAlert Single Station License		1.00	Each	\$1,180.00	) \$1,180.00
G2-APP-DLI	G2 Mobile FSAS App- Additional Single Device Lice	nse	3.00	Each	\$15.00	\$45.00
ATX	G21 ATX Station Controller- Power Signal Control u peripheral Remote Optons.	1.00	Each	\$24,934.00	\$24,934.00	
UPS-STD	ATX UPS, Standard		2.00	Each	\$1,253.00	\$2,506.00
UPS-WMB	Shelf/Bracket, Wall Mount for UPS		2.00	Each	\$80.00	\$160.00
TVR	G2 HDTV Remote Module (TV & Electrical outlet by CEC contorl subject to TV ability)	v others;	3.00	Each	\$1,201.00	\$3,603.00
MR2	G2 Message Remote 2 Module (2017 Version 2)		3.00	Each	\$1,632.00	\$4,896.00
MS-G-S	G2 Message Sign (Digital LED) Standard GammaSig Active Screen Width	gn/24"	6.00	Each	\$1,350.00	\$8,100.00
MS-AP-D	MS-G Adapter Plate, ouble VESA 100, joins (10 MS to any std mount with VESA 100 hole pat	2.00	Each	\$75.00	\$150.00	
MS-MNT-ART-L	MS Mount- Articulating Long Reach		2.00	Each	\$417.00	\$834.00
SPK-LED-FM	G2 Speaker-LED Illuminated- Flush Mount, 70v		36.00	Each	\$400.00	\$14,400.00
SPK-LED-SM	G2 SPEAKER - LED Illuminated - SURFACE Mount ( 70v	2.00	Each	\$400.00	\$800.00	
SPK-OAS	G2 Speaker OmniAlertStrobe- Omnidirectional Aleti optimized for high vocal intelligibilit	3.00	Each	\$1,124.00	\$3,372.00	
SPK-STD-SM	Speaker - Standard, Surface Mount (Metal Box, 70	/	2.00	Each	\$400.00	\$800.00
STR	G2 Strobe light/Red LED		4.00	Each	\$708.00	\$2,832.00
XFMR	Transformer, 8 ohm to 70 V, External		1.00	Each	\$53.00	\$53.00
ST-SU	Station Configuration & Start-Up		1.00	Each	\$3,300.00	\$3,300.00
ST-PM	Station Project Management		1.00	Each	\$2,000.00	\$2,000.00
ST-ES	Station Engineering/Design Services		1.00	Each	\$533.00	\$533.00
ST-DM	Station Documentation		1.00	Each	\$53.00	\$53.00
RS-1YR-STD	Standard 1st Year Warranty & Support for this stat - 1 Year	ion system	1.00	Each	\$0.00	\$0.00
TB8	Bogan Tile Bridge Speaker Support		44.00	Each	\$10.00	\$440.00
EXP	G2 Expansion Kit-Allows ability to power/signal/cor 12 more peripheral remote options	itrol up to	1.00	Each	\$8,397.00	\$8,397.00
RR2	G2 Room Remote 2 Module/2017 version 2 (4 gain required for proper install)	wall box	5.00	Each	\$2,417.00	\$12,085.00
SPK-STD-FM	Speaker Standard Flush Mount 70V		8.00	Each	\$135.00	\$1,080.00



# US DIGITAL DESIGNS

stationalerting.com

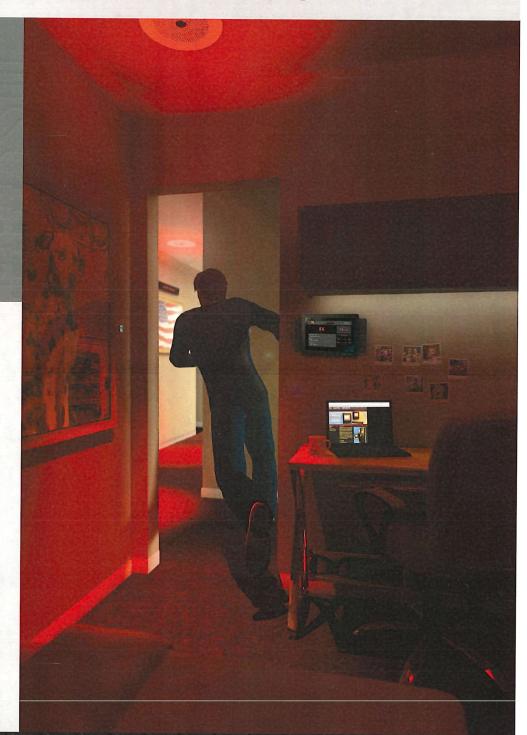
# Shave Seconds, Even Minutes

with the Phoenix G2 Fire Station Alerting System

Helping you save lives and property with faster response times and healthier, more situationally aware first responders and dispatchers.

As a public safety leader, you strive to provide the best and most cost-effective service to your community. And you know that when it comes to saving lives and property, seconds count. That's why communities of every size trust and rely on the Phoenix G2 Fire Station Alerting System to help shave seconds and sometimes minutes—off of emergency response times.

Powered by US Digital Designs (USDD), the Phoenix G2 Fire Station Alerting System can help reduce dispatch call-processing times by instantaneously alerting the right units, in the right places, so they respond more efficiently and with better information.



OVERVIEW

# **Table of Contents**

System Architecture	
Basic Station Design	6
Standard Station Design	7
Advanced Station Design8	-9

#### **For Dispatch Centers**

Communications Gateway 10-1
Communications Gateway Dashboard1
VoiceAlert1
Gateway Audio Radio Interface1

#### **For Fire Stations**

ATX Station Controller1	4-15
Station Controller Interface 1	4-15
FSA Mobile App	16
G2 Peripherals	17
Room Remote 2	18
Message Signs	19
Message Remote 2	19
Color Indicator Remote	20
OmniAlert Strobe Speaker	20
HDTV Remote	2
Illuminated Speaker	21
I/O Network	
I/O Remote	27
	-
Jarranty and Service	
hout US Digital Designs	2:



## Why Choose US Digital Designs

Two decades ago, our team of experienced mechanical, electrical and software engineers conceived, designed and manufactured the most effective, network-based, fire station alerting system in the industry for our own community. It was important to us that we made our system impeccable—to get it right every time.

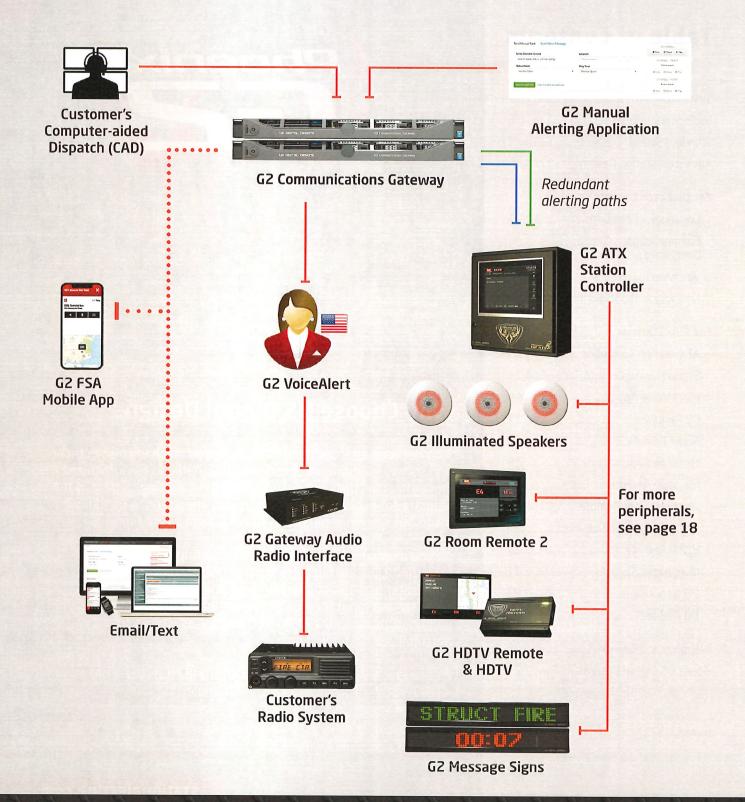
As you evaluate the best fire station alerting system for your community, we are happy to provide USDD's customer and competitor lists to assist you in your due-diligence process. We stake our reputation on delivering innovative, continuously upgraded, made-in-the-USA<sup>1</sup> technology, as well as friendly, personalized customer service.

Please give us a call at 1-877-551-USDD (8733) (USA), or +1-602-687-1730 (Intl.), or visit stationalerting.com.

<sup>1</sup>'All' or 'virtually all' significant parts and processing are of U.S. origin

### stationalerting.com

# **Phoenix G2 Fire Station Alerting System Architecture**



Section 4, Item I.

# **Automated Alerting Benefits**

### For the community:

- **Peace of mind.** Ensures that emergency personnel will arrive more quickly and better informed, for a more optimized response.
- **Savings.** Offers higher-quality area fire protection, which can contribute to a lower community ISO Public Protection Class rating<sup>2</sup>, thereby helping decrease insurance rates.

### For dispatchers:

- Speed. Delivers automatic dispatch alerts simultaneously to one or multiple stations in less than a second, helping to reduce or eliminate dispatcher 'on-hold' time.
- Wellness. Dispatches alerts automatically, reducing dispatcher stress and workload, which frees them up to communicate with callers and manage the dispatch process more successfully.
- **High reliability.** Offers dispatchers a redundant system to communicate alerts if the CAD system fails.
- **Situational awareness.** Reviews the success of alerts as they are sent, and monitors the status of the system in real time.

### For public safety administrators and city officials:

- Compliance. Helps stations shave valuable seconds—even minutes off of response times, helping meet or exceed NFPA 1710<sup>3</sup> recommendations.
- **Safety and redundancy.** Reduces the chance of missing emergency calls during grid or power failures, thanks to multiple pathway options and a backup power supply.
- Communication. Keeps personnel advised of ongoing incidents via USDD's industry-leading fire station alerting smartphone app, SMS text, pager and email alerts.

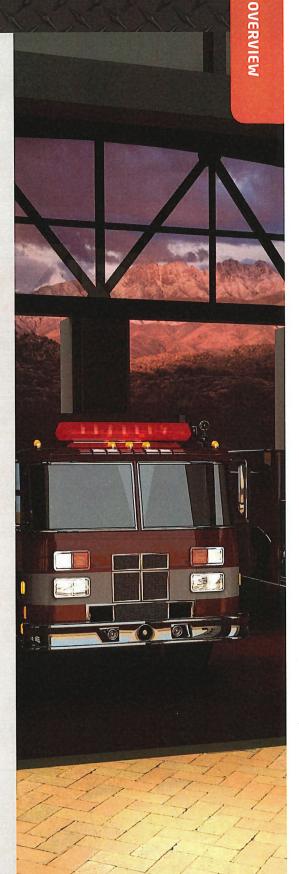
• Value. Reduces customer maintenance and management costs by integrating a reliable, proven system.

### For fire and medical personnel:

- Situational awareness. Increase mental preparedness with clear, consistent vocalization of the alert, which helps units respond more quickly and efficiently.
- **Wellness.** Reduces cardiac stress, anxiety, optical shock and sleep deprivation with ramped tones and zoned alerting, thereby notifying only required stations and/or individual units.

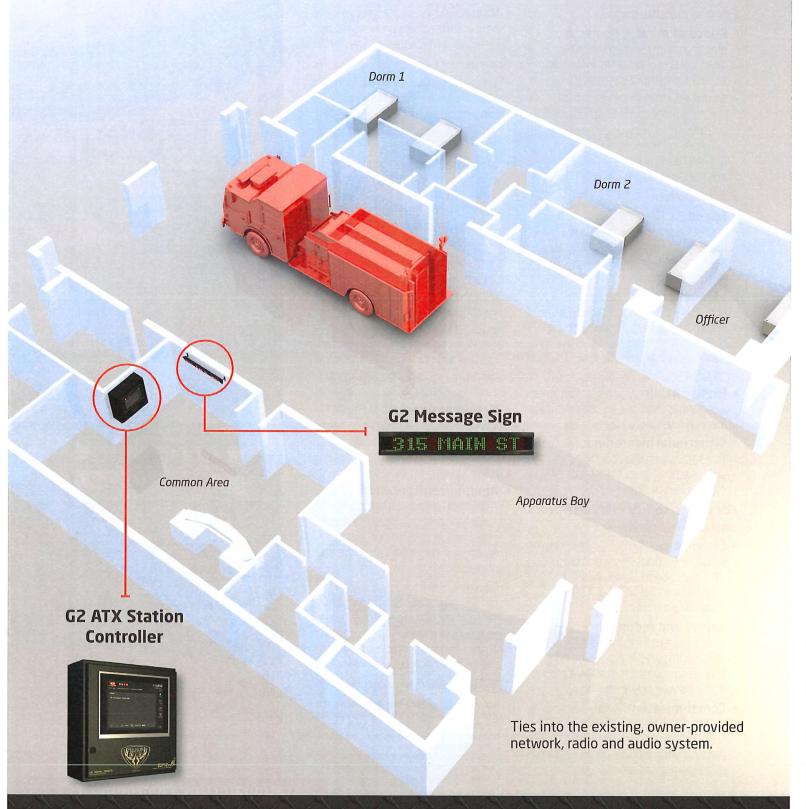
# For public safety IT professionals:

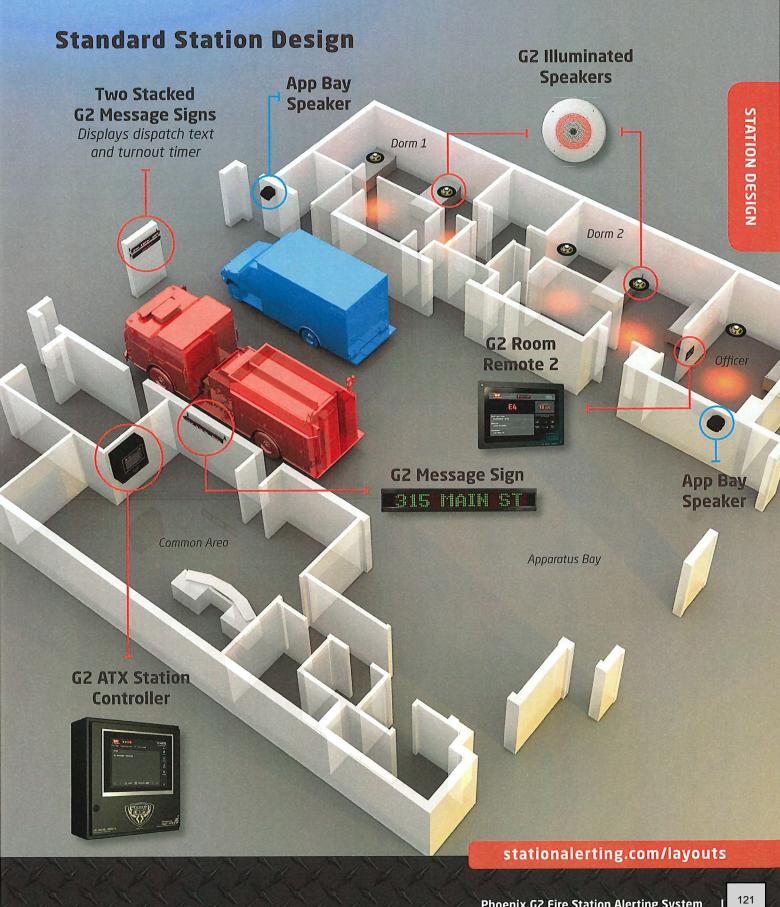
- Reliability and compliance. Maximizes system uptime through multiple NFPA 1221-compliant<sup>4</sup> redundant alerting pathways and manual alerting options, which can keep the system running during communication failures.
- **Network friendly.** Distributes quick, low-bandwidth alerting messages that are non-disruptive, enabling the continuous operation of legacy networks and other applications.
- Remote configuration. Enables IT support teams to remotely configure and deploy software upgrades from any web-enabled device, thereby reducing time and travel costs.
- Control. Offers agency-wide monitoring of all station peripheral equipment, and reports any failures to the host monitoring system and authorized system administrators via a smartphone app, email, text, etc.
- <sup>2</sup> Insurance Services Office Public Protection Class rating.
- National Firefighter Protection Association 1710-Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments.
- NFPA Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems.

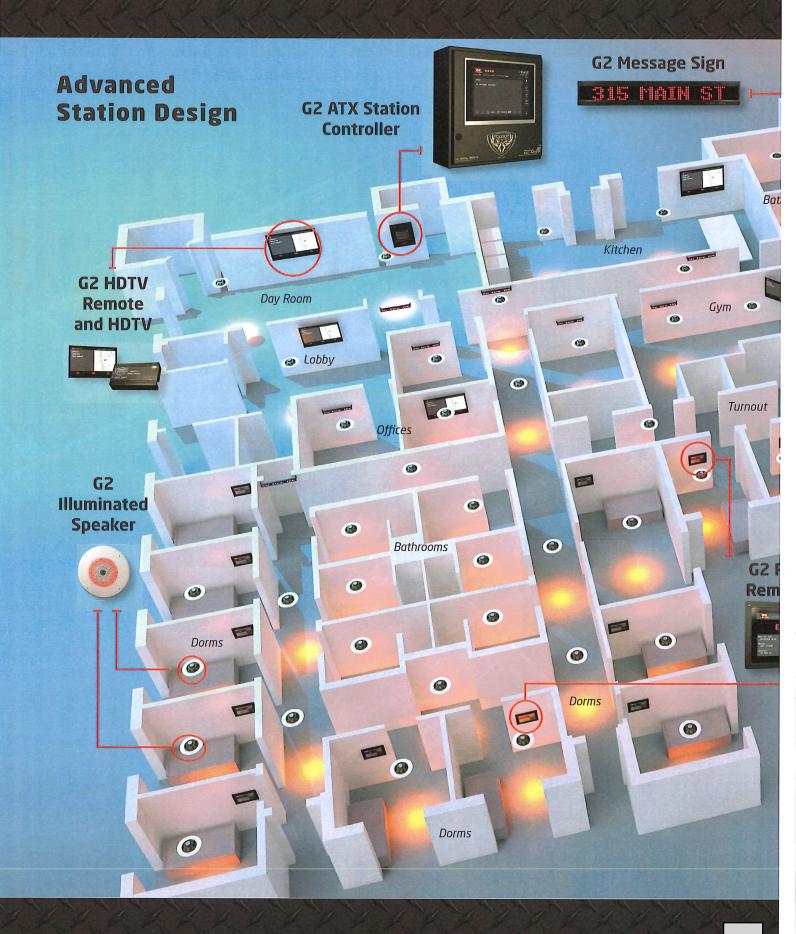


## stationalerting.com/benefits









Section 4, Item I.

# **STATION DESIGN** hrooms **OmniAlert Strobe Speaker Two Stacked G2 Message Signs** Displays dispatch text and turnout timer STRUCT FIRE 00:07 Apparatus Bay 3 Shop **App Bay Speaker** toom **Outdoor Speaker** ote 2 May be automatically muted at night

## No station too big or too small.

The Phoenix G2 system integrates crystal-clear text-to-speech technology and high-contrast message signs to help emergency personnel react promptly and efficiently to every call.

Fully automated dispatching awakens only on-call units with ramped tones and lighting, so non-dispatched crews remain undisturbed to receive necessary rest. Unquestionably, well-rested crews operate at peak effectiveness.

stationalerting.com/layouts

# **G2** Communications Gateway

Serves as an interface between the Station Alerting System and the customer's CAD host, radio and communications systems.



The G2 Communications Gateway is the link between the CAD system at the dispatch center and the G2 ATX Station Controller hosted at each fire station.

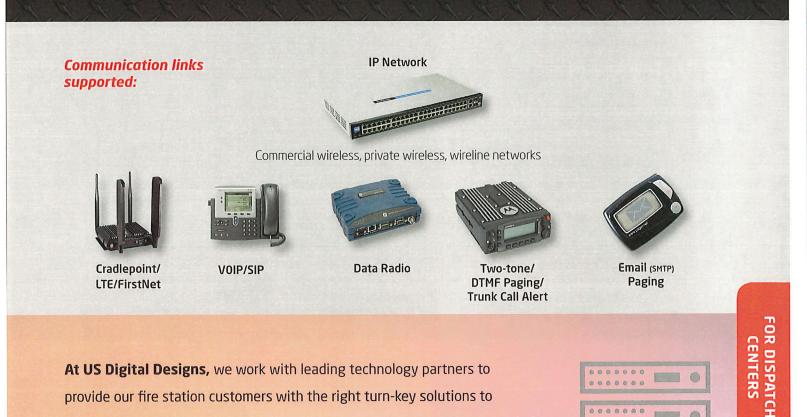
The Gateway's design is efficient in every way, from simple network requirements and software updates to the "trainable" self-service pronunciation editor integrated into our G2 VoiceAlert software.

### **Benefits**

- Connects with new or existing voice and data systems.
- **Dispatches units** over the agency's radio system—without additional dispatcher action— using clear, automated VoiceAlert text-to-speech software.
- Maintains communications during path failures with redundant pathways.
- Serves as an optional disaster recovery system with replication.
- Advises personnel of ongoing incidents through smartphone, text, email and paging alerts.
- Monitors the health of every ATX Station Controller and G2 peripheral device within the department's network, and reports any failures to personnel via audible and visual alarms, per NFPA 1221 monitoring requirements.
- Alerts stations as well as reserve or volunteer personnel with two-tone or DTMF paging.
- Eases IT support tasks via remote or local browser-based configuration and automated backups.

### SPECIFICATIONS

- Embedded secure Linux operating system
- » Redundant mirrored disk drives (RAID 1) and power supplies
- » Dual 19" 1U rack mount servers



At US Digital Designs, we work with leading technology partners to provide our fire station customers with the right turn-key solutions to meet their needs.

Visit our current CAD partners at: stationalerting.com/cad-

# **Communications Gateway** Dashboard

Alerts dispatchers to communication failures and keeps them aware of system alert progress, helping departments meet NFPA 1221.

- Manual alerting for CAD backup and . Administrative alerts.
- Visual and audible alarms.
- Automated announcement status and control. •
- Recent alert and system status.

JSCD - Dema latoard		El francia ferrary (k. 1519) Q ISI de Loncomor		
Send Manual Avert Send Admin Mes	zače	Station 2 Communication finis diven		
Inits/Stations/Groups	Location			
	Type in a located			
Kature Code	Play Tone Select an Option	IISup IIFaue > Pay		
Select an Option		CHANNEL 42-1: READY Others gaved		
Send this alert over Close this year and start by		IIStep IIPade >Pay		
Active Incidents	ict Shaw M Subor Catech			
E12 - 10 Thomas Ek fiw				
E 17, R 17 - 1539 Platte St Derver	of Assess Station Contacts 2010 02 15 104401			
ez - 3570 S Las Vegas Blvd	of Acress Station Controls — Sont co. In 1946/1			
6C10, E10, R13 - 5059 Newport Ave				
ME023 - 1050 N 34th 5t				
(MITER)				

### stationalerting.com/gateway

000000 .....

00000

....

.....

# **G2** VoiceAlert

Makes automated dispatch announcements, enabling dispatchers to focus on resource management and situational awareness.

G2 VoiceAlert provides automated text-to-speech voice dispatching alerts using a calm, clear voice to the fire stations and through the voice radio system. The speech is sent to multiple stations simultaneously, relieving dispatchers of the time-consuming task of speaking the dispatch announcement. This reduces dispatcher workload and stress during busy periods, enabling them to perform other time-critical tasks, such as handling tactical traffic or processing the next call for service.

Included with VoiceAlert is a user-friendly editing tool, VoiceEditor, that lets you update pronunciations (e.g., street names and other words) for all system alerts.

#### **Benefits**

- **Reduces human error** and automatically dispatches crews with a clear, accent-neutral voice.
- Adjusts to dispatch workload by truncating the dispatch announcement during busy periods to speed up radio alerting.
- Enables end-users to easily edit and customize street names and other terms to match local pronunciations.

Editing "BESHEAR" -						
10H & M	IT R					
C Pury Drumpis Automatically		Play	Save			
Word	Pronunciation	A	tions			
ALAMO	AEL AHM OW	[ Lát	Delete			
ALDINE	AALD IVN	[ Edit	Delete I			
AVONLEA	ERV EHN UY	Edit	Delete			
BALTZELL	BAAL TZEH L	Ede	Delete			
BESHEAR	BEH SHIYR	Edit	Delete			
BOIS	BOY	Edu	Delete			
Belishire	BEHLSHAYR	Eda	Delete			
CANTERBURY	KAENT ERBUHRIY	Edit .	Delete			
CHATEAU	SHAHTOW	Edit	Delete			
CHINOUAPIN	CHIHNK UHPIHN	£41	Insert N	ew Phoneme	D	dee (D IY
CHIFPAWA	CHIHP ANY AA	Edit	Delete P		DH	thee (DH IY
COKEBERRY	KOWKBEHRIY	Edit	Vowels	noneme	F	fee (F IY
Conroe	KAO NROW	Edit	AA	odd (AA D)	G	green (G R IY N
GRESAK	GREHSAK	Edit				
Hulcomb	GROW GANS	Edit	AE	at (AE T)	HH	he (HH IY
JIREH	HHOWLKAHM	Ede	AH	hut (HH AH T)	JH	gee (JH IY
KHARBAT	JHAYRAH KAARB AH T	Edit	A	allow (A L AW)	к	key (K IY
Lakeview	LEYKVYUW	Edit	AO	ought (AO T)	L	lee (L IY
	LEIKVIOW	( tat )	AW	cow (K AW)	M	me (M IY
dd New Word -			AY	hide (HH AY D)	N	knee (N IY
			EH	Ed (EH D)	NG	ping (P IH NG
mport Word List -		Browse No fi	ER			pea (P IY
			EY ate (EY T)		PR	read (R IY D
Speech Preview -						
			IH	it (IH T)	S	sea (S IY
			IY	eat (IY T)	SH	she (SH IY)
Use Custom Productilations in Speech Previous			OW	oat (OW T)	т	tea (T IY
			OY	toy (T OY)	TH	theta (TH EY T AH)
Constant of the second	and the second se	Constanting of the local division of the loc	UH	hood (HH UH D)	V	vee (V IY)
			UW	two (T UW)	W	we (W IY)
			Conson		Y	yield (Y IY L D)
			B	be (B IY)	z	zee (Z IY)
			CH	cheese (CH IY Z)	ZH	seizure (S IY ZH ER)
			Cit	cheese (CHIIZ)	20	Seizure (SIT ZH EK,



FOR DISPATCH

CENTERS

# **Gateway Audio Radio Interface**

## Automatically transmits VoiceAlert announcements across radio systems.

The Gateway Audio Radio Interface can play alert tones, VoiceAlert speech, and tone paging over the radio system. It supports two, simultaneous, independent radio channels, each with different announcement formats and queueing. It also links the Communications Gateways to radio channels or talkgroups for automated dispatch announcements. Additional Gateway Radio Interfaces can be used for adding more channels.

Gateway Audio Radio Interface

US DIGITAL DESIGN





Radio System

# **G2 ATX Station Controller**

Powers and controls in-station visual, audio and lighting alerts.



# **Station Controller Interface**

Securely monitor, configure or update any station from a web-based browser.

The Station Controller Interface is a web-based application that helps you configure and manage fire station alerting from any location, at any time. It enables approved personnel to connect to the ATX Station Controller via a local or wide-area network. The G2 ATX Station Controller processes incoming alerts for any combination of room zones with individual lighting, messaging, and volume control in each zone.

The ATX computer features a secure, embedded operating system for superior reliability, and a touchscreen display provides basic configuration and optional unit zone assignments.

Phoenix G2 peripheral devices in the station provide enhanced lighting, visual messaging, and mapping information to personnel. Devices can be integrated easily via a simple change to the web configuration.

### **Alerting Mode**

- Provides ramped, heart-saver alert tones.
- 12" touchscreen allows users to confirm proper operation of the system and review dispatches for tracking and reporting purposes.

- **Permits approved personnel** to optionally control or reassign zoned alerts to units via an on-screen touch selection.
- Has built-in single-tone, twotone and DTMF paging decoding
- Offers local and remote system monitoring and logging.
- Offers remote configuration and software updates.

#### **Network and Peripherals**

- Reduces alerting times with IP-based alerts over a high-speed network, and notifities multiple stations in less than a second.
- Enables doorbells and other device inputs and outputs to control lighting, appliances, doors and gates via the G2 I/O Network.
- Offers local- and remote-system monitoring and logging, making it easy to troubleshoot and reconfigure settings, such as volume and unitto-zone assignments.
- Connects to rip-and-run printers.

### SPECIFICATIONS

- » Eight Power over Ethernet (PoE) ports for G2 peripherals
- » Audio inputs for dispatch radio, telephone intercom and auxiliary
- » SIP VoIP-ready
- » Three dry-contact inputs
- » Four relay outputs
- » Four 20-watt amplifier zones with Illuminated Speaker support
- External amplifier connection to existing audio systems

#### **Remote Display**

 Locate Station Controller remotely and still have full control.

#### tation Setting 03 / 14 / 2914 Date and Time (HH.MM:SS MM/DD/YYYY 10 : 37 : 31 ent Station HEX ID: 0x02 or Station HEX ID: (example: 51 or 0x51) efault Alert Timeout: Enable Alert Auto-Ropeat Functio 15 y Repetition Delay: m B ht Repetition Dela Add Area Name Enter Area Name (Up to 32 char Enable Stand-Alcoa h Current Communications Gateway IP(s): 10.0.7.35, 10.0.9.110 Choose the default communication interface: O Data Radio Interface on COM1 @ Nativerk Interface 8 8 1. 8 2 - 1 nmon A ø 1. 0 2.0 3 1.02.0 1 . 8 2 . 1 Dorm A 1 ø stars Descriptio 1. 0 2. ø mB R rm C ise a printer that prints by default, such as when the touchscreen Print button is presse Main Settings

ATX Station Controller Area Settings

### stationalerting.com/ATX

FOR FIRE STATIONS

# **FSA Mobile App**

## Receive station alerts via your smart device.

- Push notifications to Dispatchers, Admin Messages and Support Notifications
- **Receive notifications** by Unit, Station, or Nature Code.
- Control monitor alerts individually.
- View incident location using USDD's mapping data or your smartphone's built-in mapping application.
- Generate travel route using smartphone's built-in mapping application.
- Add customer GIS layers to USDD mapping data.
- Save notifications for future reference and search for previous notifications.



Click on an alert to view more information.



stationalerting.com/app



View the location using mapping software.



Configure your smart device for proper notifications.



TURNOUT TIMER 18 SECO

# **G2** Peripherals

FIRE

STRUCT

STRUCT FIRE

# Tailor your Phoenix G2 system to meet the needs of each station with optional signage, speakers and amplifier zones.

The Phoenix G2 Fire Station Alerting System is comprised of a central ATX Station Controller and a network of alerting peripherals that alert first responders throughout a fire station via audio, display, lighting and auxiliary input/output (I/O) components.

Message signs can display CAD information, including the location and type of the incident, the upper and lower cross streets to the incident, map page and assigned radio channel. They can also display a turnout timer.

### Each G2 Peripheral:

- Connects to the centralized ATX Station Controller via a single CAT-5/6 cable for audio and Power over Ethernet (PoE).
- **Requires battery backup** and AC power at only one location.
- **Responds to many combinations** of alert conditions and station layouts, and is individually configurable by the ATX Station Controller.
- Is enclosed with black anodized aluminum, which increases corrosionand wear-resistance.
- **Enables each station** to phase in alerting system upgrades and additions at any time with easy 'plug and play' installation.

### **G2** Peripherals Include:

Message Sign

DISPATCH HOUSE FIRE

7814 E Garfield St

Ē4

- Message Remote 2
- Room Remote 2
- HDTV Remote
- Illuminated Speaker
- Color Indicator Remote
- OmniAlert Strobe Speaker
- Strobe Light
- I/O Remote

# G2 Room Remote 2

### Target specific units or rooms with zoned alerting.

The G2 Room Remote 2 is the all-in-one peripheral that simultaneously shows dispatched units, incident information and turnout time. It features a 10.1-inch, full-color, high-resolution LCD multi-touch display for easily adjusting settings, such as units to be alerted, radio monitoring, and speaker volume. Automatic backlight control dims the display when an alert is not active.

### SPECIFICATIONS

- » One 15-watt audio amplifier
- » One Illuminated Speaker output
- » One dry-contact input
- » One relay output
- » Surface or flush mount



# **Improving Health and Wellness**

## Did you know? Heart attacks account for half of firefighter deaths.

When a traditional station alarm sounds, a firefighter's heart rate can soar to dangerous levels for up to an hour. Studies show that a heart rate increases an astonishing 60 to 70 beats per minute within 15 seconds after an alarm sounds, thereby doubling the resting heart rate.

Over the course of a firefighter's career, the cumulative effects of stress produced by traditional station-alerting systems have been proven to cause permanent cardiac damage, and have been linked to multiple line-of-duty firefighter deaths, permanent hearing loss and physical disability.

Studies have shown ramped tones and lighting reduce stress on fire fighters.

# G2 Message Sign

## Displays a single-line scrolling alert message.

The G2 Message Sign is the quickest way for responders to understand an alert. It's easy to install: just plug in the PoE cable and mount it over doorways or in hallways, kitchens, offices and app bays. Additionally, the Message Sign can be configured to display alerted units, dispatch information, turnout timer, or unit status (with a capable CAD system). Available in three sizes: Mini, Standard and Extended.



Mini Message Sign with turnout timer.



andard Message Sign shows incident information and a turnout timer or unit number.



Extended Message Sign show a turnout timer along with alerted units and incident information.

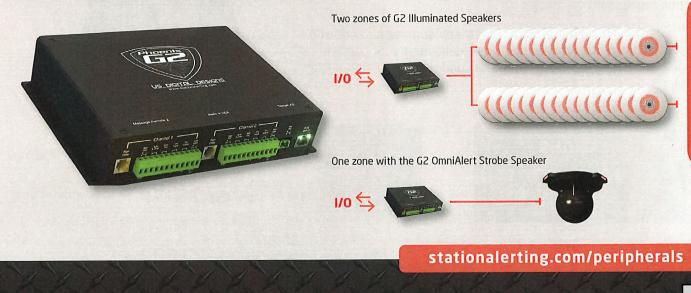
# G2 Message Remote 2

# Powers two zones of audio amplifiers and LED lighting control.

The most flexible peripheral available, the G2 Message Remote 2 contains two independent audio amplifiers with LED lighting control, and can be used to add additional speaker zones to a station.

## SPECIFICATIONS

» Two 15-watt audio amplifiers
 » Channels with speaker outputs
 » Two dry-contact inputs
 » Two relay outputs



133

PERIPHERALS

## **G2** Color Indicator Remote

# Offers an alternative alerting method, featuring high-intensity LED lights.

The G2 Color Indicator Remote is instantly recognizable by station personnel, providing immediate dispatch information to the observer. Easily visible in sunlit rooms, this LED light is fully programmable by the ATX Station Controller.

#### SPECIFICATIONS

- » One dry-contact input
- » One relay output
- » 10,000+-hours LED lifespan
- » Surface moun



## Alerts staff in open areas with high ambient noise levels.

The G2 OmniAlert Strobe Speaker is a dual-purpose, visual and audible fire station alerting device. It's particularly effective in large, open areas with high ambient noise, as well as in acoustically challenging environments (e.g., apparatus bays and shops). Optimized for the spoken word, it broadcasts high-powered and clear voice announcements. Its 360-degree horizontal dispersion allows for greater coverage and installation flexibility.

Three built-in, high-intensity LED strobe lights simultaneously provide rotating bursts of light to visually alert your personnel, even if the local ambient noise conditions prohibit audible alerts.

## SPECIFICATIONS

» 48vdc Strobe Light Input» Surface mount



The G2 Strobe is also available.

# **G2 HDTV Remote**

# Displays dispatch information, turnout timer and incident location map on a HDTV display.

## SPECIFICATIONS

» One HDMI video output

» Standard Ethernet (non-POE) input

The G2 HDTV Remote displays alerted units, dispatch information, turnout timer, and (optional) incident location map on a high-definition television (HDTV), providing another means of visual alerting.



In Dispatch Centers and administrative areas, the HDTV Remote can be used to display a list of recent alerts with individual station success indicators, (optional) incident map locations, system and radio channel status, and Station Controller alarms.

# **G2** Illuminated Speaker

## Awakens first responders with soft-start LED lighting and audio alerts.

The G2 Illuminated Speaker offers soft-start, ramped night lighting at the time of dispatch. Each speaker is fitted with high-intensity red LEDs, which offer exceptional luminosity without causing light blindness due to dark-to-bright transition.

The Illuminated Speaker receives power from the ATX Station Controller, Message Remote 2 or Room Remote 2. Recommended installation locations include dorm rooms, hallways and common areas.

## SPECIFICATIONS

» 10,000-hour LED life span

» Surface mount or ceiling mount



High-intensity red LED lights

stationalerting.com/peripherals

## G2 I/O Network

## Controls station devices based on specific events or time of day.

The G2 I/O (input/output) Network enables the Station Controller to interface with external devices (e.g., station doorbells, push buttons, lighting, appliances, doors and gates) and can reset alerts, trigger walk-in alarms and monitor alarm devices. Based on specific events or time of day, the programmable Station Controller software can turn on/off outdoor speakers and lights. Additionally, dispatchers may access the I/O Network through the Communications Gateway to remotely control connected devices (e.g., door openers) as well as view station alarms.

			A REAL PROPERTY AND INCOME.	and the second second second second		Automatica State	Iversio
	Station US002					10.31	02 14MA
54					Link up   Last ha	rdshake 10.30	59 1444
							10000
best	Distributed I/O Setup						
I not	The second s						
times-	Lorista	the state of the state of the	and the second sec	and the second second			
Car Settings	Front Door	Aux Input			Plays Tone 'Doorbell: Four Chimes Down' With Text 'Front Door'	Eds	Fam
Contraction of the local division of the loc	Clear Alerts App Bay	Aux Input	Apparatus Bay [Input 1]	Cautes	Clears Active Alerts	Ede	F.er
ethiox a	Back Donr	Aux Input	Day Form [Input 1]	Causes	Plays Tone "Deorbell: One Chims" Leeping With Text And Speech "Back Door"	Edk	E Rem
Series .	Walk In	Aux Input	Dorm 2 [Input 1]	Causes	Triggers Station-Wide Alert "Walk In", Tone 22 When No Alerts Active	Edit	Rem
1993	Stove	All Station Alerts		Opens Output Indefinitely	On Device: Day Room (Output: 1)	Eda	R.em
a Section 1	Stove ON	Aux Input	Day keem [Input 2]	<b>Closes Output Indefinitely</b>	On Device: Day Room (Output: 1)	Eda	Kum
VOSetus Postant	Communications Link DOWN	Communications Link Down			Plays Tone "Doorbell: One Chime" With Text And Steech "Link Down"	Lát	Ecm
Configuration	Backup Alert	Aux Input	ATX Mainboard (Input 1)	Causes	Triggers Station-Wide Alert 'Backup Alert', Tone 2 Always	Lde	Rem
laintenance I	Fire Alarm	Aux Input	IO Remote 1 (Input 3)		Plays Tone "Proximity Warning" Looping With Text "Fire Alarm"	Eda	1 Rem
official and a second and a sec	L102 COLOR INDICATOR	Unit-Based	L102		Green Color Indicators	Eda	Eem
	TRADIENG ROOM 1 30 MIN NUT	TE Aux Input			On Device: Appendius Bay (Output: 1)	Eda	1 Rem
1	Unit Indicator E	Unit-Based			Red Color Indicators	Eda	Eem
	Unit Indicator L	Unit-Based			Magenta Color Indicators	103	Rem

## G2 I/O Remote

## Enables the monitoring and signaling of gates, doors, etc.

The G2 I/O Remote interfaces between the ATX Station Controller and field devices. The inputs (I) can be configured to monitor switches such as doorbells, walk-in alert triggers and door open sensors. The outputs (O) can be used to signal automatic doors and gates, activate strobe lights and more. The I/O Remote may be installed up to 90 meters (295 feet) from the ATX Station Controller.

### SPECIFICATIONS

» Eight dry-contact inputs » Eight Form-A relay outputs



# **About US Digital Designs**

At USDD, we design, develop and customize the mission-critical Phoenix G2 Fire Station Alerting System, which plays a major role in helping save lives and reducing property losses in emergency situations. We employ sustainable manufacturing techniques in our environmentally-friendly solar-powered headquarters. Our electronic manufacturing processes are RoHS compliant<sup>1</sup>, reducing the output of lead and other hazardous substances into the environment.

- It works. Long before any part is manufactured, we assemble and test the product in a virtual environment. We understand the need to get it right the first time, saving you from unnecessary frustration.
- **Improves response times.** Visual alerting is the quickest way to improve response times. And by combining visual and audio alerting, you'll also increase situational awareness and readiness.
- One size doesn't fit all. Having worked with thousands of fire stations, we find that each location has its own unique subculture. That's why our designers will produce a custom rendering of each station's floor plan to help you visualize how the Phoenix G2 system will meet your unique needs.
- You dream it, we'll build it. If you envision refinement or improvements to your existing system or a completely new product, talk to us. Each part of the Phoenix G2 system was developed based on the needs and feedback of first responders around the world. We will help turn your vision into reality.
- Don't take it from us. Ask around. Call any of our customers and you'll find that no alerting company has a better reputation for providing a more effective solution, better value or better service. Also, view our video testimonials and see Phoenix G2's impact on communities at stationalerting.com/ impact.
- <sup>1</sup> Restriction of Hazardous Substances. RoHS is also known as Directive 2002/95/EC.



# **Get Started**

- 1. Take our quick survey at stationalerting.com/start
- 2. Email your fire station floor plans to sales@usdd.com
- 3. Receive a quick fire station alerting system design and budgetary assessment

### Support

The Phoenix G2 comes with built-in, upgradeable features and capabilities; multi-year, 24/7 proven reliability; easy, hassle-free installation; web-based remote configuration and control; and almost no required maintenance. Telephone and email support are always available during normal business hours (Monday to Friday, 8 a.m. to 5 p.m., MST). Recurring annual service and support agreements are available, allowing you to continue the same worry-free operation and maintenance of all of your installed station alerting systems.

### Warranty

At USDD, we warrant our products to be free from defects in material and workmanship during the one-year warranty period. If a product proves to be defective in material or workmanship within one year from date of purchase, we will, at our sole option, repair or replace the product. Replacement products or parts may include re-manufactured or refurbished parts or components. The replacement unit will be covered by the balance of the time remaining on your original limited warranty.



Pricing Protection with National Procurement Contract



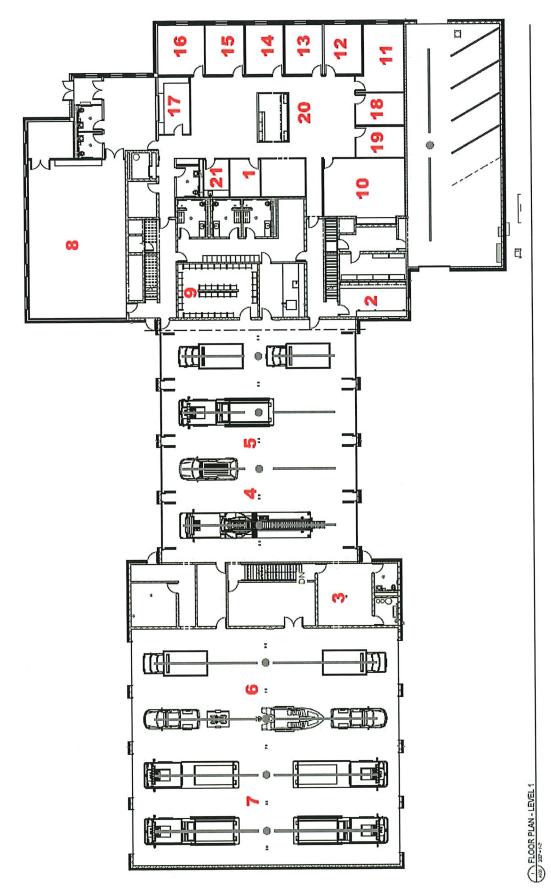
## **US DIGITAL DESIGNS**

stationalerting.com

US Digital Designs, Inc. | 1835 East Sixth Street, Suite 27, Tempe, AZ, 85281 USA 1-877-551-8733 (USDD) | 1-602-687-1730 © Copyright 2019 - US Digital Designs, Inc.

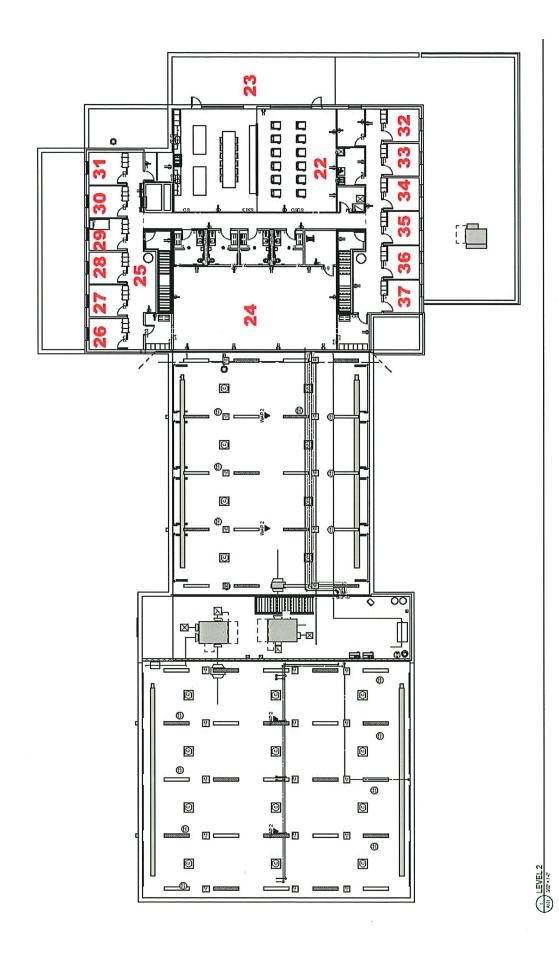


Section 4, Item I.



 $\bigcirc$ 

Section 4, Item I.



Ŧ

 $\bigcirc$ 

### First Floor:

- 1. No radios or speakers
- 2. Desktop Control Station
- 3. Speaker Only
- 4. Speaker Only
- 5. Speaker Only
- 6. Speaker Only
- 7. Speaker Only
- 8. Control Head, Microphone and Speaker
- 9. Speaker Only
- 10. Speaker Only
- 11. Desktop Control Station
- 12. Control Head, Microphone and Speaker
- 13. Control Head, Microphone and Speaker
- 14. Control Head, Microphone and Speaker
- 15. Speaker Only
- 16. Control Head, Microphone and Speaker
- 17. Speaker Only
- 18. Speaker Only
- 19. Speaker Only
- 20. Speaker Only
- 21. Speaker Only

### **Second Floor:**

- 22. Desktop Control Station
- 23. OUTDOOR Speaker Only
- 24. Control Head, Microphone, and Speaker
- 25. Speaker Only
- 26. Speaker Only
- 27. Speaker Only
- 28. Speaker Only
- 29. Control Head, Microphone and Speaker
- 30. Speaker Only
- 31. Speaker Only
- 32. Speaker Only
- 33. Speaker Only
- 34. Control Head, Microphone and Speaker
- 35. Speaker Only
- 36. Speaker Only
- 37. Speaker Only

Section 4, Item I.

. .

145

Section 4, Item I.

ΟUΟΤΕ GCI01175 Sep 19, 2024

Expiration Date: 10/31/2024

Quoted To: Tanya Reynen Watertown Fire Department

106 Jones Street Watertown, WI 53094

#### **Prepared By:**

Scott Smith Email: scott.smith@gencomm.com

### **Scope of Work:**

- Install a new multi-band (VHF and 7/800) radio system with 11 transmit/receive control stations in various rooms throughout the new fire station.
- Build 3 different radio systems into the same building for listening to different radio channels if/when required, with scanning capabilities.
- Allow all 3 radios systems in the building to listen/scan the same channel(s) or have the ability to have each radio system listen/scan a different set of channels independently.
- Allow any desktop radio to be able to easily switch from the current system they are on to any of the other 2 radio systems in the building.
- Allow any room (equipped with a desktop radio) to change radio channels and transmit.
- Allow any room in the firehouse to be "radio ready" whether an existing radio is being relocated or a new radio is being added to the system.
- Connect the radio system into the new Phoenix G2 Station alerting system to listen (only) throughout the entire buildings speaker system.
- Build a non-penetrating antenna system on the roof of the building to accommodate multi-band radio usage (VHF and 7/800).
- Program all 3 radio systems for multi-band capability and scanning.
- Create a system that is both Phase 1 and Phase 2 capable, which includes the 0 ability to communicate on current local channels, Milwaukee/Waukesha County Oasis (WIPSN), Danecon, Jefferson, and Dodge counties.



Madison - (608)271-4848 Milwaukee - (262)439-2000 Eau Claire - (715)225-7604 2880 Commerce Park Drive WI Rapids - (715)424-3050 Madison, WI 53719 McHenry - (815)385-4224 800-356-3200 | www.gencomm.com

146

McHenry - (815)385-4224 Eau Claire - (715)225-7604 8484-172(808) - nosibeM

91752 IW , nosibeM 2880 Commerce Park Drive WI Rapids - (715)424-3050

Watertown Fire Department Tanya Reynen :oT befoug

moɔ.mmoɔnag.www | 002E-32E-008

Watertown, WI 53094 106 Jones Street

."VinO

Scott Smith

Prepared By:

moo.mmoonep@dfime.ffoos :lism3

Expiration Date: 9/27/2024

**O D E** 

4ug 28, 2024

**SCIOIIS** 

0

- their own dedicated breaker. These 2 receptacles should be labeled as "Radio 1. In the electronics closet, provide (2) 20-amp 4-receptacle outlets, each on
- 2. Provide 1 CAT6(a) wall receptacle in each room of the fire station.

Responsibilities of Watertown Fire:

- placed approximately 12-inches off the floor. a. This wall receptacle should be on the wall where a desk is going to be
- b. The wall CAT6 outlet MUST be labeled "Radio Only"
- receptacle in each room, back to the electronics closet. c. A CAT6(a) cable must connected to the receptacle and run from the wall
- d. Within the electronics closet:
- cleanly routing into the electronics rack. NOT TERMINATED. i. For each CAT6 cable, there should be 20-feet of extra cable left for
- other end of the cable terminates in. ii. Each cable must be clearly labeled by identifying which room the

### Page 2 of 2

Eau Claire - (715)225-7604 2880 Commerce Park Drive WI Rapids - (715)424-3050 Madison, WI 53719

GEN**COMM** 

McHenry - (815)385-4224 800-356-3200 | www.gencomm.com

Madison - (608)271-4848

Milwaukee - (262)439-2000

Section 4, Item I. -

### GCIQ1175 Sep 19, 2024

Expiration Date:

10/31/2024

Quoted To: Tanya Reynen

Watertown Fire Department

106 Jones Street Watertown, WI 53094 **Prepared By:** 

Scott Smith Email: scott.smith@gencomm.com

### Watertown FD station radios

#### Please see attached document for "Scope of Work".

	Electronics Rack		Qty	Unit Price	Ext. Price
1	1 SPACE RACKSHELF 11DP	U1	3	\$74.50	\$223.50
2	Utility Shelf 14.50" depth 2 space	U2	3	\$99.00	\$297.00
3	leviton Extreme 6+ 48 Port Universal Patch Panel	6A586-U48	1	\$1,142.00	\$1,142.00
4	NEXSYS™ 9 Outlet, 20 Amp Rackmount Power with Series Surge Protection	PDX-920R-SP	1	\$350.00	\$350.00
5	Netgear Prosafe Plus GS108E Ethernet Switch	GS108E-300NAS	3	\$85.78	\$257.34
6	Samlex Power Supply	SEC1223	4	\$212.00	\$848.00
7	Samlex America Rack plate mount	SEC-R2	2	\$77.90	\$155.80
8	Miscellaneous ties, clamps, and patch cables from patch panel to network switches	SALESMISC	1	\$500.00	\$500.00
	Electronics Room Phoenix G2 control head/auc	lio	Qty	Unit Price	Ext. Price
9	Harris Control Unit, XL-CH	XZ-CP6A	1	\$1,387.50	\$1,387.50
10	L3 Harris CABLE, POWER, Y-SPLIT, DESKTOP	XZ-CA6R	1	\$131.25	\$131.25
11	L3 Harris Cable, XL Mobile, Speaker Accy	XZ-CA6F	1	\$90.00	\$90.00
12	Harris Power Cable, XL-CH	XZ-CA6D	1	\$65.25	\$65.25
	Electronics Rack DUAL BAND Radio Chassis VH	F 7/800	Qty	Unit Price	Ext. Price
13	L3 Harris Mobil XL-200M, Multiband, LTE, NA	XZ-MPM1M-NA	3	\$3,206.25	\$9,618.75
14	Harris Feature, VHF Band	XZ-PL4J	3	\$450.00	\$1,350.00
15	Harris Feature, 700/800 MHZ Band	XZ-PL4L	3	\$450.00	\$1,350.00
16	Harris Feature Package, P25 Trunking	XZ-PKGPT	3	\$1,350.00	\$4,050.00
17	Harris Featire, XL200M Single Key DES Encryption	XZ-PL4U	3	\$0.01	\$0.03
18	Harris Feature, XL200M Single Key AES Encryption	XZ-PL9E	3	\$0.01	\$0.03
19	Harris Feature, Encryption Lite	XZ-PL8Y	3	\$0.01	\$0.03

Ext. Price	Unit Price	٥ţ٨		:#	148
57.819\$	\$206,25	З	Jt-PL4F	AMOT S 95610, Phase S AMOT S 976	50
\$281.25	S7.56	3	∀רר∀	Harris Feature, Link Authentication	12
\$236.25	SZ'8Z\$	3	XZ-CA6C	Harris, Cable, Power VCH	52
Ext. Price	Unit Price	σελ		mətəvə sunətnA	
00.24\$	00'51\$	3	RFT-1202-I	TNC Male Crimp for LMR-400	23
\$731.25	\$2.25	325	00 <del>7</del> -700	Times Microwave 3/8" Ultra Low Loss Coax Cable Sold Per Foot	54
\$161,52	97.51\$	12	RFN-1006-31	RF Industries Coax Connectors, N-Male	55
Z6'TZE\$	66'271\$	ε	IS-B50HN-C2	POLYPHASER 125-1000 MHz general coverage. bulkhead mnt. protector. 50,000 amps surge. <800u1 throughp	56
00.887\$	00.192\$	3	10A9MAL	Pad Kit for JRM Mounts 3/8 thick	72
05'999'T\$	05.252\$	ε	1KM23805HC	Outdoor Mast Flat Roof Non-Penetrating Mount	82
00.038,1≵	00.029\$	ε	00) 2CS340-HWB2NE(D	Sinclair 136-960 Mhz 2Dbi Tri-band Omni Antenna V/W Female Connector	50
00'521\$	\$125.00	Ţ	SALESMISC	Concrete blocks, ties, tape, clamps,etc.	30
Ext. Price	Unit Price	δέγ		Remote Room Radio control heads	
¢12'585'20	05.785,128	ττ	A2-CP6A	Harris Control Unit, XL-CH	31
\$2,186,25	\$243'22	ŢŢ	XZ-CA6L	L3 Harris CABINET, XL DESKTOP Includes desktop Cabinet and power supply.	32
00.757\$	00.79\$	ττ	14050-6210-01	Harris BRACKET KIT,MOUNTING,XL CH	33
S7.717\$	\$65.25	τŢ	A2-CA6D	Harris Power Cable, XL-CH	34
\$2,120,28	\$7.581	ττ	292M-ZX	L3Harris XL-200M Desk Mic, XL-Mobile, Desktop	32
00'56†\$	00.24\$	τŢ	¥9SJ-ZX	Harris Speaker External Mobile	98
00'066\$	00.06\$	ττ	XZ-CA6F	L3 Harris Cable, XL Mobile, Speaker Accy	32
\$346.50	\$31.50	ττ	XZ-CY6B	Cable, XL-Mobile, Ethernet, 9M (14050-6300-02)	38
Ext. Price	Unit Price	σελ		ุ Programing	
00.027\$	00.027\$	Ţ	-AM-VA32A08AJ	Programming Template Development Dual Band Programming Template Development Dual	36
00'SET\$	00.24\$	З	АЗ-ЯЭОЯЧ-ЯОВАЈ	jinU dəbə- oibeA pnimmerpor9 rodel	40
Ext. Price	Unit Price	Qty		Installation Labor	
00.004,5≵	00.004,5\$	т	AM-JJAT2NI908AJ	sennetne to noitelletenI	14
00.004,2≵	00.004,5\$	Ţ	AM-JATZNIA08AJ	Build radio components into cabinet, cabling, setup and testing	42
00.002,1≵	00'002'1\$	Ţ	AM-JJAT2NI908AJ	Installation of remote control heads into 1.1 rooms	43
00'571\$	00'521\$	Ţ	SALESMISC	Miscellaneous ties, clamps, tape, brackets, and fabrications.	44
\$222'00	00.281\$	3	∂9noZdoM	Robilization crew to onsite installation x 3 days	94

		Section 4, Item I.
Line #:	Qty	Unit Price Ext. Price
Totals		
	Subtotal	\$62,813.22
	Тах	\$0.00
	Freight	\$0.00
	Grand Total	\$62,813.22

Returns & exchanges are accepted within 30 days of purchase and require an RMA number. Items must be in unused condition and in original packaging. Special order items are non-returnable and may not be cancelled once shipped from vendor/manufacturer. Radio and infrastructure equipment/manufacturers carry a 25% restocking fee.

\* A 3% surcharge applies to all credit card payments.

Unless otherwise specified, shipping and handling charges are not included and will be added to the associated invoice.

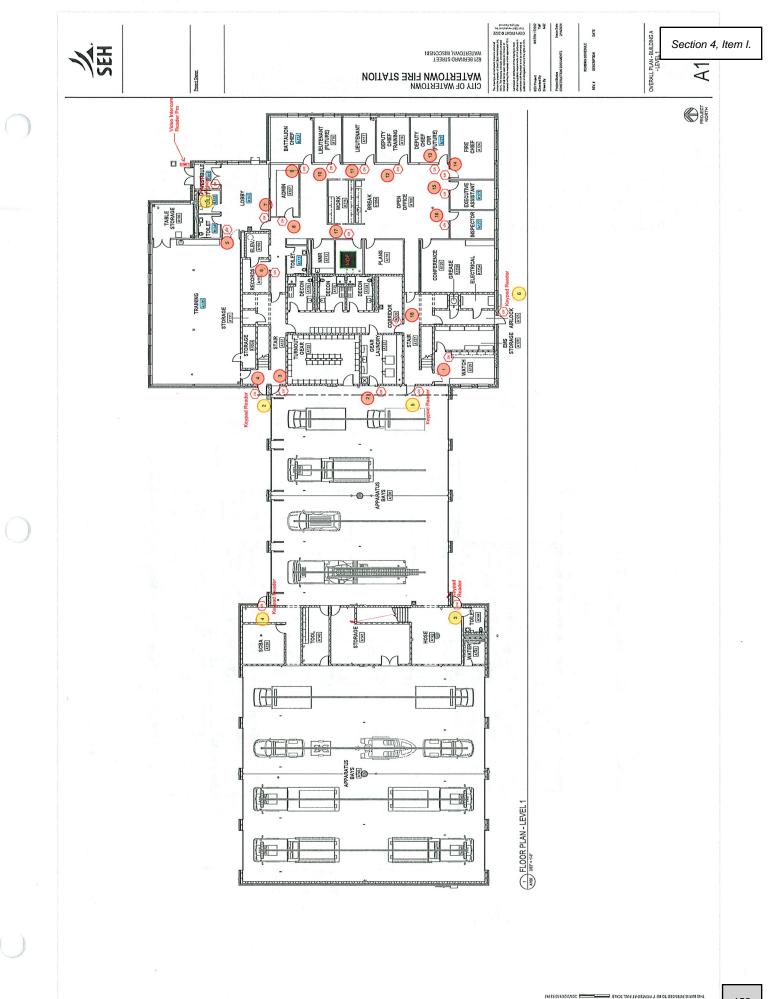
Signature:\_\_\_\_\_Date:\_\_\_\_\_

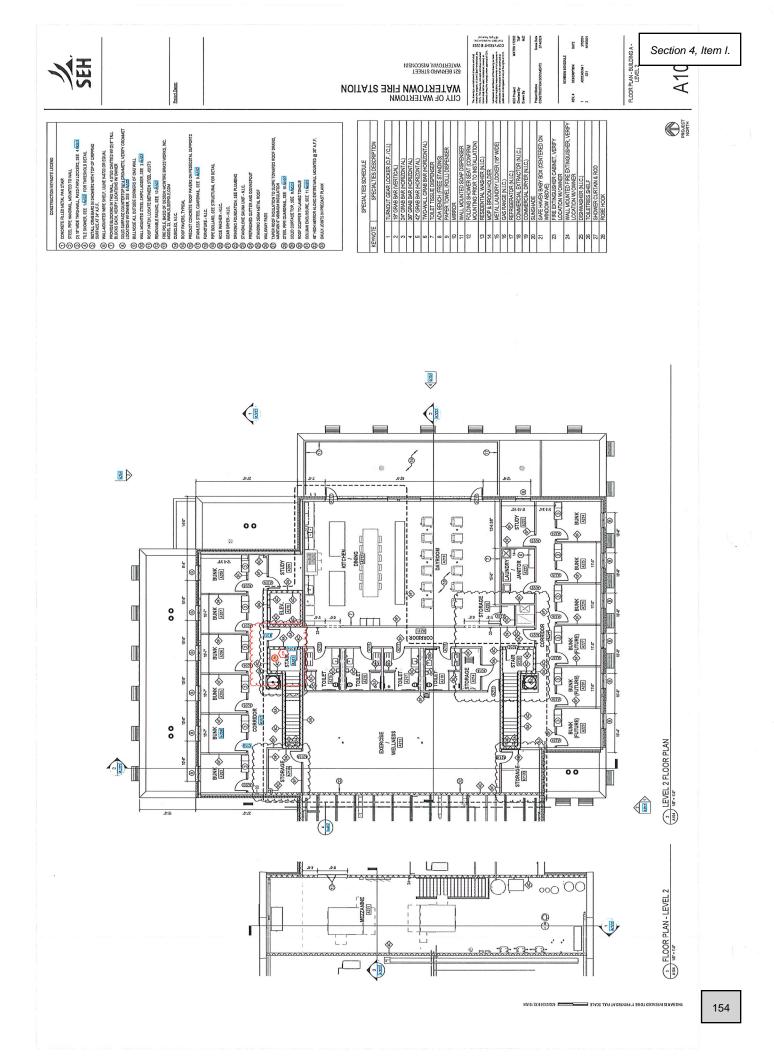
149

150



BAYCOM, In			Date:	8/27/2024
1545 Corporate Sun Prairie, WI	Quote Number:	DF-240827-1		
Cell: 608-445-0		Email: dfoster@baycominc.com	Quote Mulliper.	DI -240027-1
Prepare	Attn:	Watertown Fire Department Tanya Reynen		ī.
Ad City, Stat	dress:	106 Jones Street Watertown, WI 53094		
	Phone:	920-285-1827		
E	E-Mail:	TReynen@watertownwi.gov		
Qty. Item	n ID	Description	Unit Price	Total
		Quote for Motorola Radio Equipment w/ WCA Contract Pricing		
2 a	ı	Motorola APX Consolette - VHF w/ DANECOM	\$9,507.20	\$19,014.40
2 b	)	Motorola APX Consolette - 800MHz w/ OASIS	\$9,230.53	\$18,461.06
1 c	;	MCD5000 Radio Gateway Unit, Power Supply & Cables *Customer is responsible for LAN access at the APX Consolette location to each MCD5000 Deskset	\$2,055.36	\$2,055.36
15 d	ł	Motorola MCD5000 Deskset w/ Cables	\$1,857.60	\$27,864.00
6 e	)	Motorola MCD5000 Deskset Wall Mount Kit	\$40.00	\$240.00
1 f	Ē	Easy Smart Switch with 24-Port PoE+	\$375.00	\$375.00
1 g	J	Budgetary VHF & 800MHz External Antenna Systems This number can be firmed up once Baycom can do a site walk of the new fire station	\$12,000.00	\$12,000.00
1 ł	ı	Budgetary Baycom Labor to Implement Project This number can be firmed up once Baycom can do a site walk of the new fire station	\$12,000.00	\$12,000.0
			Item Total:	\$92,009.82
			Shipping:	N/#
			Sub Total:	\$92,009.8
			Tax:	Exemp
Price v	alid 60 d	days from date of Quote	Total:	\$92,009.82
Quoted by: De	rek Fost	er		
Date: 8/27/20	24			
Accepted by:			Date:	





# LAFORCE



QUOTE

N58 W16780 Ridgewood Dr. Menomonee Falls, WI 53051 Questions: (262) 252-5150

QUOTE NUMBER	486913QU
QUOTE DATE	9/11/2024
CUSTOMER REQUISITION	VERBAL
MODE OF DELIVERY	Security Integrations install
CUSTOMER	208547
CONTACT	BEN OLSEN

WATERTOWN POLICE DEPARTMENT

- ATTN: BEN OLSEN
- 106 JONES ST
- SOLD WATERTOWN, WI 53094

TO USA

WATERTOWN FIRE DEPT 106 JONES ST SHIP WATERTOWN, WI 53094

USA TO

### JOB \*\*\* SI-ACCESS CONTROL WATERTOWN FD PER FLOOR PLAN

LINE	QTY	ITEM	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
2.000	1	HDW	B-ACS6100L-E BRIVO CONTROLLER		
2.000	11	HDW	B-ACS6100-DB CONTROL BOARD		
3.000	1	HDW	B-ACS6100L-EXP EXPANSION CABINET		
4.000	6	HDW	HU-40KNKS01 WALL READER / KEYPAD		
4.500	18	HDW	HU-40NKS000 WALL READER		
5.000	1	HDW	AX-AL1012ULM POWER SUPPLY		
5.500	1	HDW	IM-1270F1 12VDC BATTERY		
6.000	22	MHDW	HES 4500C-630 ELECTRIC STRIKES		
7.000	2	MHDW	QEL CONVERSION KIT FRONT ENTRY		
7.500	2	OHDW	TRANSFER HINGE		
7.719	50	HDW	HU-2050PNNMN ICLASS FOBS		
7.938	50	HDW	H7U-52260PSGG PRINTABLE DUAL TECH CARDS		
8.000		WIRE	WIRE / MATERIALS		
9.000		ELTRIP	SI TRIP CHARGE		
10.000	1	MHDW	SCISSORS LIFT		
11.000		ELINSTALL	SI INSTALLATION OF MATERIAL		
12.000	1	REFERENCE	QUALIFICATIONS: *ANNUAL HOSTING FEE NOT INCLUDED AND TO BE QUOTED SEPARATELY **IF LIFT IS REQUIRED IS REQUIRED MORE THAN 1 DAY ADDITIONAL FEES WILL BE INCURRED AND ARE NOT INCLUDED		





### QUOTE

Section 4, Item I.

LINE	QTY	ITEM	DESCRIPTION		UNIT PRICE	EXTENDED PRICE
RECEIPT	REQUIRE	D FOR REFUN	DS OR EXCHANGES.			
Stock materials are subject to 45% restocking fee. Special order materials are				FREIGHT	\$0.00	
Payment			o returns after 90 days. ard or E-Check by accessing our payment	SUBTOTAL		\$57,663.88
portal at: <u>https://www.e-billexpress.com/ebpp/LaForce/</u>			SALES TAX		\$0.00	
(MC / VISA / AMEX / DISC) A transaction fee will be charged on all payments made via credit card, which is not greater than our cost of acceptance. This quotation is subject to the Terms and Conditions found at <u>http://laforceinc.com/terms-conditions/</u> , which are incorporated in full by this reference. The Terms and Conditions will be sent by mail to the Buyer upon request. LaForce, Inc. limits acceptance to the Terms and Conditions, and objects to any other additional or different terms in the Buyer's purchase order or acceptance.				TOTAL		\$57,663.88
				PAY TERMS: NET	30	
- Charge per user for access						

### QUALIFICATIONS

- Quote is valid for 30 days from date of quotation unless otherwise stated herein.
- Past due accounts are subject to a service charge of 1.5% per month on the unpaid balance.
- This offer is conditioned upon approval of credit by LaForce on the purchaser.
- No sales, use or other taxes included unless otherwise stated herein in writing.
- See attached qualifications and terms for this project.
- Federal project note: Federal Contractor vaccine mandate compliance not available.

Thank you for this opportunity to quote your needs. Please sign and return this quote and attached qualifications or send a written purchase order, and we will proceed with your order. LaForce, Inc. is not able to accept verbal purchase authorizations at this time. We look forward to working with you. If you have any questions, or need further information, please give me a call.

Justa Number 196012011

Thank You,

JIM MARTIN Email: Jim.Martin@laforceinc.com Phone: 262-252-5150

Quote number.	40091300
Authorized By:	
Company:	
Date:	

JIM MARTIN Email: Jim.Martin@laforceinc.com Phone: 262-252-5150



From: Mary Driscoll <<u>Mary.Driscoll@laforceinc.com</u>>
Sent: Wednesday, September 11, 2024 1:56 PM
To: Tanya Reynen <<u>TReynen@watertownwi.gov</u>>
Cc: Sara Hammer <<u>Sara.Hammer@laforceinc.com</u>>; Jim Martin <<u>Jim.Martin@laforceinc.com</u>>
Subject: Updated quote for Watertown Fire Dept 486913QU

Good Afternoon Tanya,

In follow-up to our discussion this morning we've attached an updated quote for hardware and installation of 24 readers at the new Fire Department (we had previously quoted 13).

The second attachment is for the Brivo subscription levels. The police and community center are currently on the Base plan which we still recommend as a good option for you moving forward. If there are features you would like in the upper levels we would be happy to have further discussions to see the most cost effective solution. These fees are billed initially upon installation and then yearly to access the system.

Police Dept, Fire Dept and Community Center locations will be combined onto one account with the following costs:

Subscription Level	Annual Cost	· Loron All Book
	tuba inte a ana	Afrika (forsounds)
Standard/Base with 100 Bluetooth licenses	\$3160	
	the test setting and	in de la companya de
Professional with 100 Bluetooth licenses	\$6614 Baycom Co	mparable
Enterprise with 100 Bluetooth licenses	\$11069	
NY CRIMENTER AND A CONTRACT AND A 1997	Level Reception	dan service to di

Qualifications / Notes:

Bluetooth will only work at Fire station card readers.

Police and Community Center readers can be upgraded to accept Bluetooth.

Please let us know if you have any questions and thank you for this opportunity to earn your business!

### **Mary Driscoll**

Project Manager

Security Integration Department

LaForce | Electronic Security Systems TF: 262.252.5150 ext. 122302 • Direct: 262.345.7242 Mary.Driscoll@laforceinc.com

### Tanya Reynen

From:	Mark Stevens <mstevens@watertownwi.gov></mstevens@watertownwi.gov>
Sent:	Monday, September 16, 2024 2:41 PM
То:	Tanya Reynen; Emily McFarland
Cc:	Chad Butler; Andrew Day
Subject:	RE: Updated quote for Watertown Fire Dept 486913QU

The quiz on this quote that the quote itself can't answer is how an original assumption for 13 readers blossomed to 24. We haven't added doors to the plans, so how did we almost double those that need secure access? Original place holder was \$21,385. Second proposal was \$39,283. Now this one is \$57,664

If this quote assumes a Bluetooth phone access, what are the 50 fobs and dual tech cards needed for? (Perhaps these are an economical part of the whole. The quote has no breakdown to know if a reduction is a healthy cost-savings.)

Mark

From: Tanya Reynen <TReynen@watertownwi.gov>
Sent: Wednesday, September 11, 2024 2:48 PM
To: Mark Stevens <MStevens@watertownwi.gov>; Emily McFarland <emcfarland@watertownwi.gov>
Cc: Chad Butler <cbutler@watertownwi.gov>; Andrew Day <ADay@watertownwi.gov>
Subject: FW: Updated quote for Watertown Fire Dept 486913QU

All-

Please see the updated quote for Laforce. After talking with them today, and reiterating what we were asking for in the drawings submitted previously, they realized they had errors in the quotes previously provided. Unfortunately, that impacted the cost.

Below is a brief summary referencing the "Enterprise" ability they offer. In talking with them, they did say they had another version of that concept they called "professional" that allows for managing multiple sites.

The FD like to have the app or Bluetooth via our phones for access, Baycoms quote included that ability cited in the quote.

Please provide me your final decisions for direction on the access control. I believe whomever we utilize for access control would need to be invited to the Sept 17 meeting for coordinating with electrician and door folks. I will reach out to Trevor to make sure we invite the correct players...

Thank you,

Tanya Reynen Fire Chief / Emergency Manager

Main: 920-261-3610

Section 4, Item I.

# **o**brivo.

**Brivo Access** Cloud-based access control that fits the needs of any organization

### EXPERIENCE MODERN SMART AND EFFICIENT ACCESS CONTROL FOR YOUR FACILITY



Brivo Access is offered in three editions so you can select the right package to fit your needs

### Standard

### The gold-standard for access control

Our base edition includes the essential tools to secure facility access including event tracking, user and credential management, facility lockdown and video surveillance. The Standard edition provides a great entry-level solution with core functionality and add-on capabilities.

### **Professional Edition**

### Most popular for more effective security

As our most popular edition, Professional empowers organizations to be more efficient and effective managing security across their facilities. Added features include, API integrations, Occupancy Tracking, Brivo Visitor, Brivo Snapshot, License Plate Credentials, Event trend analysis, extended data retention, integration with corporate identity management, and more.

### **Enterprise Edition**

### Enterprise-grade and built to scale

Built for enterprise security applications, Enterprise Edition offers features specifically designed to manage large numbers of access points, across multiple locations, while meeting the increased security and compliance requirements demanded by enterprise size organizations. Added features include, Data Explorer, Single signon, Anomaly Detection, Global View, Shared Access, and more.

#### Section 4, Item I.

# Let's find the Edition that's right for you

	A LLA MAN		
Standard	Professional	Enterprise	
Up to 10	Up to 30	Unlimited	Administrators available*
$\otimes$	$\bigotimes$	$\otimes$	Event tracking
$\otimes$	$\bigotimes$	$\bigotimes$	Device status
$\otimes$	$\bigotimes$	$\otimes$	Facility lockdown & egress
$\otimes$	$\bigotimes$	$\bigotimes$	Role-based admin permissions
$\otimes$	$\bigotimes$	$\bigotimes$	Remote & mobile management
$\otimes$	$\bigotimes$	$\otimes$	Video surveillance
$\otimes$	$\otimes$	$\bigotimes$	Multi-factor authentication
Available for purchase	$\otimes$	$\bigotimes$	Identity Connector
Available for purchase	$\otimes$	$\bigotimes$	API integrations
Available for purchase	$\otimes$	$\bigotimes$	Licence Plate Credentials **
	$\bigotimes$	$\bigotimes$	Occupancy Tracking
	$\bigotimes$	$\bigotimes$	Custom event classification
	$\bigotimes$	$\otimes$	Event trend analysis
	$\otimes$	$\otimes$	Access Commands
	$\bigotimes$	$\otimes$	Emergency Scenarios (Global)
	$\otimes$	$\otimes$	Global Switch
	$\bigotimes$	$\otimes$	Video: Analytic Events **
	$\otimes$	$\bigotimes$	Elevator Controls
	$\otimes$	$\otimes$	Bulk Actions
Available for purchase	Available for purchase	$\otimes$	Single sign-on (SSO)
		$\bigotimes$	Anomaly Detection
		$\otimes$	Global View
		$\otimes$	Data Explorer
		$\otimes$	Shared Access
		$\otimes$	Floor Plans
Available for purchase	Available for purchase	Available for purchase	Monitored Devices
	500	1000	Brivo Mobile Pass
1 Year	0 - 2 Years	0 - 3 Years	Data reporting retention***
Available for purchase	1 Subscription	3 Subscriptions	Brivo Visitor
Available for purchase	1 Subscription	3 Subscriptions	Brivo Snapshot

6

\*Additional Administrators for Standard and Professional Editions are available for purchase

\*\*Additional Eagle Eye Networks subscriptions required \*\*\*Additional data retention available for purchase

brivo.com

sales@brivo.com 1.833.462.7486

160



#### A Lifeline in the Moments that Matter

#### **Quotation For:**

Watertown Fire Department Tanya Reynen 106 Jones Street Watertown, WI 53094 920-285-1827 TReynen@watertownwi.gov

Quote # DF-241001-5

Vendor:

BAYCOM, Inc. Derek Foster 1545 Corporate Center Dr Sun Prairie, WI 53590 608-445-0832 dfoster@baycominc.com

Date: 10/1/2024 Valid Until: 10/31/2024

TOTAL PRICE

\$16,359.06

### Motorola Alta Access Control

<u>Includes</u>: (3)Core Series 8 port 12/24V Smart Hub, 8 entry capacity. Power supply: FPO series, E4 enclosure

> (1)Core Series 4 port 12/24V Smart Hub, 4 entry capacity. Power supply: FPV series, E1 enclosure

(4) Standard Smart Keypad Reader V2, black, Multi. Freq

(21)Single Gang Reader, Mutli. Freq

(1)Video Intercom Reader Pro

(1)Annual subscription for Premium for Pack of 25 entries, includes 500 active users

(1)Annual subscription for Premium for Pack of 1 entry, includes 500 active users

(10)MIFARE Classic Key Fob, use with high frequency readers, pack of 10

161

#### **TOTAL PRICE**

\$5,195.87

### **Door Strikes & Additional Hardware**

Misc Hardware: (26) 5200 Complese Door Strikes.

"Misc Hardware," also encompasses all ancillary and supplementary hardware components necessary for the complete and functional installation of video surveillance and access control equipment as specified in this proposal. This includes, but is not limited to, screws, mounts, brackets, cables, connectors, and power supply units.

**Baycom Services** 

Labor Total: New Alta Access Control System (26) Doors each with New Door Strikes, System Design, Project Management, Programming, Configuration, Testing and Travel.

\$18,375.00

# 2026 & Beyond - Warranty - Hardware

- Accessiuse
- license support

The customer must ensure the availability of sufficient network infrastructure capable of supporting the newly installed IP devices, including any necessary cabling, switches, and network configuration. The customer is also responsible for providing access equipment, such as a lift, for the installation of cameras at locations exceeding standard ladder height.

### Øcharge for Additional credentials

Approved By	Shipping: Iax:	\$39,929.93 Included n/a
PO #	Total:	\$39,929.93

Terms and Conditions can be found at https://www.baycominc.com/baycom-operating-terms-conditions/ We impose a surcharge of 2% on credit card purchases over \$1,000, which is not greater than our cost of acceptance All of the information listed on this proposal is confidential and proprietary information. Your Signature Is An Agreement To Purchase And An Acceptance Of The Above Terms

# THE ULTIMATE GUIDE TO ACCESS CONTROL SYSTEMS

What access control is and why it's important to security

163

Section 4, Item I.



# THE ULTIMATE GUIDE TO ACCESS CONTROL

Access control systems are an important and integral element of security systems to protect property, people and resources. Door access control systems determine who is authorized to enter a property or a restricted area within a property and provide various techniques to manage and control access.

Access control security is used in many different types of building, including campuses, office blocks, commercial buildings, multi-tenant apartment buildings, industrial complexes, condos, gated communities, schools and colleges, airports, stadiums and government buildings.

This article explains what access control is and why it's important to security. You'll also learn about the benefits and use cases for access control, as well as access control policies and the components of an access control system.

### Access control definition

The role of access control security, or the true access control security meaning, is to regulate who can enter a building or a space. Its aim is to minimize risk to a business or organization.

To secure facilities, organizations deploy electronic access control systems that incorporate user credentials, access control readers, auditing and reports to manage and track access to restricted locations. They may also deploy alarms and lockdown capabilities to prevent unauthorized access or control operations in restricted areas. Electronic access control has replaced traditional lock and key systems as a more secure and convenient method of controlling access, overcoming the problems of lost or stolen keys, retooling locks and the inability to view access activity.

Another subset of access controls, information security can include ways to limit who has access to computer systems or networks. Also known as cybersecurity access control, these types of methods are used both on the premises and in cloud-based platforms to help ensure data and information remains protected. When combined with physical security methods, it's often referred to as security convergence, a growing trend in the security industry.



# Why access control security is important

In short, replacing traditional locks and keys with electronic security and access control strengthens security. Traditional locks have many drawbacks, including management challenges, lack of audit trails and the fact that metal keys are easily lost, stolen and copied.

Electronic credentials are more difficult to steal or copy, and they require validation before an individual can gain access, which gives security teams greater ability to control access. Electronic access control systems can be programmed with different levels of access for individual users and groups, which enables security teams to impose the strongest levels of security where they are needed most.

Flexibility and control are important because, compared to single-family residential properties, commercial buildings must provide convenient, secure access to large numbers of occupants and their visitors, who might include friends or family, business visitors, couriers delivering mail, packages or food, contractors or tradespeople carrying out maintenance work.

A commercial access control system is important at building entrances, where the system provides convenient access for employees, residents or other occupants, while preventing intruders or unauthorized individuals from entering.

Within a building, access security protects areas where entry must be restricted by only allowing users with the right credentials to enter. In an office block, this might apply to server rooms or spaces where confidential data is stored. In a multifamily residential complex, the access security system might limit access to resident-only facilities such as gyms or mail rooms.

A door access control system also provides security teams with important information on all entry activities. This can provide useful evidence in the event of an incident or suspicious activity.

### How access control security works

A user who is authorized to enter a building or secure area presents credentials to an access control reader positioned at the entrance or door. The reader transmits the credentials' data to software which validates the credentials against a database of authorized users. If the credentials are valid, the software initiates a door release signal which opens an electronic lock to grant access. If the credentials are invalid, or the user does not have permissions for that door or time, the door will remain locked.

An access control panel is the backbone for the access control system; access control panels or controller boards determine the basic functions of the system, including the entry decisions. The system also records and retains all access requests for analysis, audit or evidence.

In the case of visitors requesting security access, they will either need temporary credentials, such as a visitor badge or digital guest pass. If the occupant or front desk has the ability to operate the access control mechanism, either via a button or app, they can issue a door release signal to grant access.

### What is an access control policy?

To impose the right level of security and access at entrances to restricted areas, security professionals or property managers must enforce access control policies. These fall into five main categories:

- Discretionary access control (DAC): The owner or administrator of the property sets the access control policy defining who is authorized to access the building or a specific area. This type of access control provides minimal levels of security.
- Mandatory access control (MAC): Security professionals grant and manage access rights based on multiple levels of security. Access is granted or denied based on the user's security clearance level. This category is used to protect highly secure areas.
- Attribute-based access control (ABAC): This approach provides access to users based on who they are, rather than what they do. Access permissions can be based on the user's type, location, department and duties, mirroring the organizational structure of the business.
- Role-based access control (RBAC): Access is based on defined business functions rather than the individual user's identity. The aim is to provide users with access only to areas that are deemed necessary for their roles within the organization.
- Rule-based access control: An administrator defines rules that govern access to an area. These rules may be based on conditions, such as time of day and location.



### **Access control functions**

Access security has five main functions:

- Authorization: The access control system administrator specifies individual users' access rights to areas or resources. For example, employees are authorized to enter a building, but only authorized to enter restricted areas relevant to their grade or job function.
- Authentication: The system or an individual validates an entry request such as the identity of a person or the credentials they present. For example, a resident checks a video image of a visitor before granting access, or the system validates credentials against a database of authorized users.
- Access: When the system has authenticated a request, it grants access by opening a locked door.
- Management: Security administrators manage the access control database by adding or removing authorized users so that the access control devices only validate requests based on current information.
- Audit and review: Regular reviews and audits minimize the risk of users retaining access rights they no longer require. Audits also provide essential records for compliance.

Reporting is also an important function. Each time a user requests access, the system generates data that provides important management information. The system records all access requests with details of location, user identity and type of credential used. Notifications also provide insight into potential security issues, such as tailgating, doors left open or access requests from unidentified users.

The data from door access control helps security professionals monitor the performance of the systems through reports such as:

- Door activity history recording who opened a specific door and at what time
- Invalid access attempts where users attempt to use their credentials at an unauthorized access point
- Door openings, door forced open or door left open too long

### Access security configuration

System administrators use the information from the authorization process to configure access levels for users and access locations. They rank locations based on the level of security and authority required to gain access. They can then configure the credentials issued to individual users.

Access control software can also configure user credentials to automatically expire by specific dates, based on the completion of a project, for example, or the date when a resident leaves their tenancy. The software can also configure temporary credentials for a one-time event, for example, where attendees will only require access for emergency maintenance or a vendor visit.

Building owners may wish to restrict general access to a building at certain times, such as evenings or weekends. Software can configure all credentials to be invalid at those times. It's also important to put emergency measures in place so that access control systems can automatically operate in lockdown mode in the event of a fire or other emergency.

### Security access locations

Security access control examples are found in many internal and external areas of a building or campus that need to be secured and controlled. Here are a few examples of common areas for access control security to be installed:

- Main entrance: This might be a reception area where check-in is automated and employees and visitors must present credentials. There may be multiple entrances to a building, so it is essential that they are all covered by access control techniques.
- Turnstiles: These might be located close to the main entrance as a means of access control where there is public lobby access, but restricted access to the rest of the building. They may also be located on other floors or zones that need to be secured.
- **Car lot or parking garage entrance:** Entry may be secured by a gate or other form of barrier that limits access to authorized vehicles and visitors.
- Elevators: Access control systems may be used to manage numbers of occupants or to control access to certain floors.
- Server rooms: All entrances must be secured, allowing only authorized users.
- **Perimeter:** In a building or campus with a large perimeter, security access can be installed at gates, barriers or other entrance points to manage the flow of visitors and vehicles.

It's also essential to identify other areas that are vulnerable to intrusion, represent a security risk, or where it's important to manage movement:

- Vulnerable areas: These include emergency exits, windows or unsecured exterior doors where intruders could gain access without detection.
- Areas with a security risk: In commercial buildings these include certain offices, storage areas or meeting rooms where confidential information is held. In multi-occupant residential buildings, these might include storage rooms or resident-only facilities such as gyms or recreation areas.
- Areas to manage movement: These include lobbies, stairways and passages where it's essential to avoid overcrowding.



# **ACCESS CONTROL COMPONENTS**

Door access control systems have a number of basic components, each with its own importance for a fully functioning system. It's important to understand how access control components influence the convenience and security of the system in order to deploy a solution that fits your needs.

### **Door access control credentials**

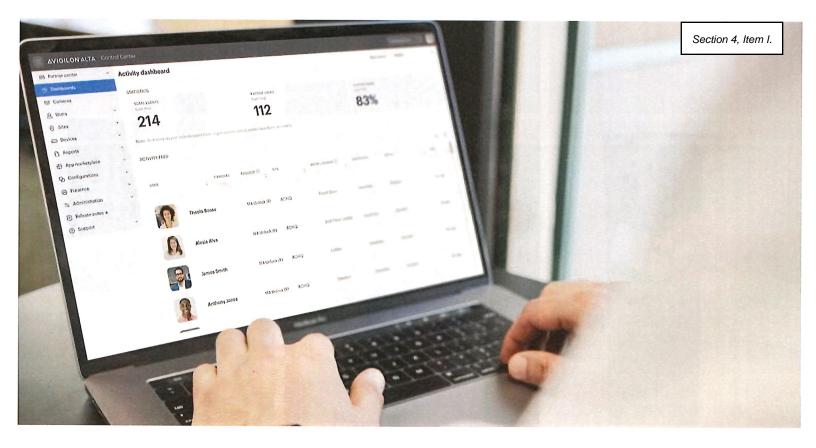
Credentials are what users will present to a door reader when they want to enter the building. There are six main types of credentials that offer different levels of security and convenience:

- PIN codes: PIN codes are convenient, but require users to remember their codes. General codes can be used in low-risk areas, with individual codes issued for higher-security entrances.
- Swipe cards: These badges feature codes on a magnetic strip. Users swipe the cards through a reader to request access. While they are convenient, they can present a security risk if users swap or lose cards that can be used by intruders.
- Proximity key cards and key fobs: Proximity solutions use RFID technology to provide contactless access. Users present RFID-enabled key cards or key fobs when they are close to a reader. This makes them a simple, convenient form of access for high-traffic areas.
- Smart cards or smart fobs: These advanced cards and fobs contain a computer chip that can store additional, unique credential

information, which increases security while retaining convenience.

- Mobile solutions: Users download an app to their smartphone or other mobile device. Depending on the access control system, they scan the smartphone at the reader or use an unlock feature in the app to gain access. Mobile credentials support regular use for authorized users, or temporary access to specific areas for visitors, contractors or service staff.
- Biometric solutions: Biometric door locks combine strong security with convenience for authorized users. The most widely used solutions include fingerprint door locks, facial ID and eye scan door locks for retinas or irises. Biometric solutions overcome the problems of lost or stolen credentials because they are extremely difficult to copy.

The systems to capture biometric credentials and the scanners required to read them are expensive, and this initially limited their use to protecting highly secure areas. However, if budgets allow, they can also be used as a fast, convenient method of access in high-traffic areas.



### **Door readers**

Door readers can be installed inside and outside of the building to provide security for areas with different levels of vulnerability. There are different types of security door readers for use with corresponding credentials. They include:

- Keypad readers: Users key in a general or unique PIN using the keypad. Although this type of reader is simple and convenient to use, PINs can be shared, guessed or used by intruders with stolen credentials, especially when buttons wear over time. Capacitive touch keypads and longer-digit unique PINs help combat these challenges.
- Key card swipe readers: Users swipe their key cards through the reader. Although these readers are secure, they may require frequent maintenance if they are used in areas of heavy traffic.
- RFID key card or key fob readers: This type of contactless reader is more suitable for heavy traffic areas. Readers simply present their credentials when they are within range of the reader.
- Biometric readers: Users present one of their approved biometric attributes, which are scanned for validation against a biometric database. For even higher levels of security, biometric solutions can be used as part of two-factor authentication with other credentials.
- Smart door lock readers: These readers are designed to operate with different types of credentials. They can also be programmed for two-factor authentication using a combination of credentials to increase security levels.
- Video door readers: Video door readers have a camera embedded into the access control device, giving security teams visual evidence of identity and any security issues.

 Intercom readers: This type of access control device combines reader technology with two-way audio, and is commonly used on front doors to help verify visitors prior to granting entry.

### **Controllers and access control boards**

These are the "brains" of the access control system, acting as a link between the door reader and the user database. These units are usually installed behind restricted doors, as they contain vital data and information that should be protected.

### Access control software and data storage

The software for access control systems is a vital tool for managing the database of authorized users. The database holds the details of the network of access controlled doors and authorized users together with their access levels.

To maintain security, it's essential to keep the database up to date by adding new users and removing users who have left or who no longer have permissions to access specific areas.

There are two options for hosting access control software: on-site in servers or hosted in the cloud accessible via the Internet.

Access control devices can produce high volumes of data, particularly if the system incorporates video or biometric credentials which create very large file sizes. If data volumes grow, additional servers may be required for an on-site system. Cloud storage is more scalable; if capacity requirements increase, additional capacity is available on demand for a



higher subscription. In some cases, a hybrid option may be available, which is particularly useful for businesses with multiple locations.

Another key differentiator in these system options is that on-site servers have to be maintained and updated by an internal IT team. All maintenance and updating of cloud-based systems is usually handled by the hosting company as part of the subscription.

Cloud storage for access control devices offers the additional benefit of remote access. Security teams are no longer restricted to reviewing data onsite. If data is stored in the cloud, security teams can also access the data from any location using an Internet-connected fixed or mobile device. This increases flexibility, allowing teams to remotely monitor and operate keyless locking systems outside of normal business hours.

### Electronic locks for door access control

Electronic door entry systems remain closed until a user's credentials are validated and a 'release' signal unlocks them. There are two types of electronic door locks for commercial keyless entry:

**Electric strike locks** are fitted to the inside of a door frame where they replace conventional lock strike plates. A small motor on the strike is connected to a power supply and the current holds the strike plate in the locked position. When an access controller submits a 'release' signal, the motor releases the strike plate allowing an authorized user to open the door.

**Magnetic strikes** incorporate an electromagnet attached to the door frame, which bonds to a metal plate on the door. The door remains locked while an electric current is flowing through the electromagnet. When a user's credentials are validated, the access controller sends a signal which cuts the power, breaking the magnetic bond and allowing the user to open the door.

### **Commercial security doors**

Electronic locks for access control are generally used in conjunction with commercial security doors, which have the strength and durability to resist threats. These doors can cope with high traffic volumes and continuous use by larger numbers of users with minimal maintenance. They also have the performance to withstand different internal and external environmental conditions, such as extreme weather conditions.

### Data networks and cabling

Dedicated cabling has traditionally been used to connect security access components. However, cabling can be expensive to install and maintain, with additional installation costs if the system changes or expands.

Data networks offer a more flexible alternative for IP-based systems. Access control components, such as readers and control units, can be connected to existing networks wirelessly or using Power over Ethernet (PoE), reducing installation costs and offering simpler, faster scalability.

A fast, secure and reliable data network is essential for efficient access control operations. The networks must be able to transmit signals securely between controllers, readers and electronic locks.

Data networks must be capable of transmitting high volumes of data at high speed to minimize the risk of slow response times. To maintain performance, the network should provide high bandwidth availability and functionality such as traffic prioritization to support bandwidth-hungry traffic such as video images or data from biometric devices.

### **Power supply**

An access control system requires power for door readers, controllers and electronic door locks. Power can be connected using conventional cabling to each component or supplied via a data network using PoE technology. This simplifies installation and reduces costs because no separate cabling is required.

As part of your access control best practices, it is recommended that each component also have a backup power supply, so that doors can still be functional in the event of an Internet or power outage.



# INTEGRATING DOOR ACCESS CONTROL SYSTEMS WITH OTHER SECURITY SOLUTIONS

Access control systems provide an essential first line of defense against unauthorized access. However, integrating access control devices with other security system components can strengthen protection even further and provide security professionals with a single 360-degree view of activity throughout a building.

Security video cameras monitor vulnerable areas inside and outside commercial properties to identify and record incidents. By installing video cameras at restricted areas covered by access control systems, security professionals can monitor and analyze the camera feeds so that they can respond rapidly to any incidents.

Integrating security access data with video feeds enables security teams to identify suspects more easily in the event of an incident.

Fitting alarms and sensors to external doors and windows extends security coverage and ensures that security teams receive immediate notifications of any attempt to break into the building. When integrated with the access control system, this allows security teams to quickly identify a door forced or propped open, or remotely unlock a door if needed. Smoke and fire alarms

can be integrated with security access to trigger local or building-wide lockdown in the event of an emergency.

Software applications can also be integrated with access control systems for more efficient management. For example, syncing identity platforms with access control ensures credential databases are always up-to-date, and connecting visitor management platforms gives security teams greater control and visibility over guest access within a property.

Video cameras, alarms, sensors, access control devices and electronic locking systems should be built to open standards so that they can be easily integrated into a comprehensive security system that provides the highest level of protection for people and property.



# **BENEFITS OF ACCESS CONTROL SYSTEMS**

Investing in access control techniques can transform the security and convenience of building access and deliver important operational and financial benefits.

### Stronger security

Replacing traditional locks and keys with electronic access control mechanisms strengthens security. It eliminates the problem of lost or stolen keys and replaces them with electronic credentials offering different levels of security. Electronic credentials are more difficult to copy and they require validation before a user can gain access, which gives security teams greater ability to control access.

### **Targeted security**

Security professionals can deploy different types of door access control systems or program electronic credentials with different levels of access. This enables security teams to impose the strongest levels of security where they are needed most. For example, smart key cards can be programmed with unique codes to protect highly secure areas, or users can be assigned mobile access permissions based on their titles or work schedules. Mobile or RFID credentials can also be paired with other credentials, such as PIN codes or biometrics, to support two-factor authentication.

### Greater convenience for users

Credentials for security access control systems are available in different forms, all offering users convenient access. Proximity solutions, for example, allow users to enter high-traffic areas quickly and easily, while biometric solutions eliminate the need for separate credentials. Mobile credentials can increase convenience even further by allowing users and visitors to identify themselves using a smartphone app. When choosing and developing an access control policy, make sure to provide staff training on how to use the new system.

### Simpler user management

Security teams no longer have to issue, manage and replace large numbers of individual keys, which could prove expensive in a building with many different lockable doors and entrances. Adopting mobile credentials simplifies management even further. Teams do not have to issue key cards or key fobs; they simply send a link to smartphone apps programmed with individual access levels. Modern access control system management software also allows teams to manage credentials online, handling moves, adds, changes and removals with just a few clicks. With cloud-based access control, security teams can manage user credentials from any location on any Internet-connected device.

#### More flexible property management

A cloud-connected security access system gives teams greater operational flexibility. They no longer have to be onsite outside normal business hours because they can manage access requests, open or lock doors and monitor alerts from any location with a secure Internet connection.

A remote door entry system can provide important security continuity in the event of a fire or other disaster that makes it impossible to provide onsite security management. Teams can continue to monitor and secure doors from a temporary location with Internet connectivity.

#### Reduced support burden

Electronic access security systems require less maintenance than traditional manual entry systems. IT staff do not have to manage and maintain connectivity and power supply because this is handled by the network team. If the system is cloud-enabled, the IT team doesn't have to manage servers or other infrastructure because this is handled by the cloud hosting provider.

### Greater scalability

Networked access control security systems are easier to scale than conventional lock and key systems or access systems connected by dedicated cabling. A new door reader can be added to an existing data network with no need for the delay or disruption of installing dedicated cabling. In addition, adding new locations to the access control security network in the cloud is just as effortless, with all sites managed from a single dashboard.

#### Consistent security levels

Cloud-enabled security access systems provide an opportunity to centralize security operations and impose consistent security standards, particularly for organizations with multiple sites. A central security team can monitor and manage all access requests from a single location, or remotely via a secure web browser. Centralized management enables security teams to standardize permissions and access levels across all sites, which can strengthen overall security.

### **Detailed audit trails**

Data from access control requests can be useful for analyzing real-time access activity as well as providing input for security audits, management reporting and compliance records. This type of information can also help security teams and property managers assess the efficiency of access control and refine best practices over time.

### Streamlined interoperability

Access control devices designed and built to open standards can be integrated with other security components such as sensors, alarms, video security cameras, existing access control systems, fire and smoke alarms to create a comprehensive security solution that enables security professionals to monitor and manage all activity through a single pane of glass. These systems can also be integrated with compatible building management systems and environmental control platforms to improve overall protection and safety in the building.





# **ACCESS CONTROL AND SMART BUILDINGS**

Access control systems play an essential role in protecting a building and its occupants against threats from intruders, but they can also make a wider contribution to building management and the evolution of smart buildings.

While the primary application of access control techniques is to monitor and control access to secured areas, data from the system can also provide greater insight into movement and use of facilities within buildings. That can provide valuable input into facilities planning to create safer and more efficient routing as well as optimizing space utilization. For example, analyzing traffic in spaces such as conference rooms or other busy spaces provides useful information on room availability and occupancy levels.

Access control devices can also be integrated with other elements of building management systems. For example, security access data on room occupancy can support more efficient use of heating, lighting, ventilation and other facilities by automating the allocation of resources in line with actual occupancy. This can improve resource efficiency and reduce overall operating costs.



# SELECTING AN ACCESS CONTROL SECURITY SYSTEM

There are many factors to take into consideration when selecting a security access control solution for door access control:

### Security

The most important factor is security. The system must ensure that only authorized users and approved visitors can enter a building. Door access security must restrict entry and provide adequate protection for areas of the building that contain sensitive information or resources and facilities that could harm the business if they were damaged by intruders.

### Reliability

If a reader or access control unit is not reliable, it reduces the level of security. Downtime for repair or maintenance also increases risk and inconvenience for users. The equipment should have guaranteed levels of uptime and incorporate back-up or failover solutions for high-security areas.

### Convenience

Although access control is designed to deter unwanted intruders, it should not prove inconvenient for authorized users who require access. The system and access control devices should be quick and easy to use and incorporate touchless technologies for added convenience.

### Management

As well as convenience for users, the access control mechanisms and system should also be convenient to manage. Operation, configuration, management and maintenance should be straightforward with software that's intuitive to use and interoperable with other security tools. Selecting a cloud-enabled system simplifies management even further.

### Customization

System components should be customizable so that security professionals can configure them to meet specific requirements for different areas and individual users. Look for solutions that offer multiple permissions levels, door schedules and custom management dashboards to further streamline and control access throughout the property. The system should also be quick and easy to reconfigure if security requirements change.

### Scalability

For growing businesses, it's important to have a system that can be easily scaled to cover more access points or support additional users. Organizations operating across multiple sites can improve operational efficiency if a system on one site can be scaled via the cloud to other sites. This will ensure consistent security across the organization and reduce overall costs.

### Compliance

The security access control system should enable the business to comply with any customer security requirements, data protection requirements or industry-specific regulations. For example, customers may require data relating to their business to be secured by special measures as part of a contract. In some industries, compliance with an international security standard such as ISO 27001 is essential for doing business, while business in sectors such as healthcare or financial services require even higher levels of security compliance. In general, it's essential to provide security for personal data to comply with data protection regulations.

### **Cost of ownership**

Cost is one of the most important factors in selecting an access control system, not just the initial costs, but the ongoing costs for operating, maintaining and managing access control systems. The upfront cost will be based on the number of access points to be covered as well as the type of components required. The ongoing costs will include installation and configuration, operation, monitoring and management, and the costs of maintenance, repair and upgrading. Costs may be more predictable with a cloud-based solution that includes maintenance and upgrading costs in a monthly subscription.

### Access control features

As well as providing the essential security functions, it's important to select systems that include access control features that save time or improve efficiency. For example, automated notifications from the cloud ensure the security team has the latest information on potential incidents. A wide range of reports will enable security teams to provide different stakeholders with the specific information they need for their role. Remote management capability improves convenience and flexibility for the IT team, enabling them to manage systems and respond to incidents from any location.



# GETTING THE BEST ACCESS CONTROL SYSTEM FOR YOUR BUILDING

To gain full benefit from security access control, it's important to plan the solution carefully by assessing vulnerabilities and access requirements throughout the building. A professional security system installer can provide advice and guidance on the most appropriate solution for different areas of the building and prepare detailed installation plans. Security specialists can also recommend integration opportunities to ensure the system forms part of a holistic solution for building security and management.

Here are a few questions to ask when determining which access control features and solutions are the best for your business:

### How reliable is the access control system?

Security systems are only worth the investment if they work. Reliable door access control systems will have public downtime reports so you can compare. Also consider adding backup and fail-over security for your access controlled doors.

### Is the system on-premise or cloud-based?

It's important to weigh the pros and cons of a cloud-based vs. on-premise access control system before investing in new technology. If you have an on-prem solution, some providers now offer remote capabilities and hybrid cloud deployments to make management more flexible.

### How easy is it for employees to use the access control devices?

You don't want to make it harder for your staff to get into the building. Unlocking the door should be simple, fast and reliable. Touchless access control methods are a great way to keep traffic moving in your building, without compromising on security.

### What does the installation process look like?

Before purchasing, know how long your access control system will take to install and what the installation project will involve. Do you need to run new cabling? Are there existing access control units or readers that you want to keep? Be sure to include installation costs in your access control plan.

### What access control features are available with this system?

Be sure the system you invest in has a full feature set, with everything you need to maintain security in your buildings. Look for customizable user permissions, the ability to set door schedules, advanced reporting and audit tools, support for multi-factor authentication and automatic alerts. Other features you may want include lockdown capabilities, custom rule engines, digital guest passes and unification with video security systems.

### Does the system integrate with my existing security and access control infrastructure?

Open architecture is an important consideration for access control, as it allows you to connect your access control devices to other security systems. For the best experience managing and maintaining your security, access control systems should be able to seamlessly integrate across your entire technology stack, including video systems, alarms and software tools.

### How future-proof is this access control system?

A future-proof system is one that has all the access control features you need now, and will also work for any future security challenges the business might face. Factors like scalability, ease of integration and automatic updates all impact how future-proof a solution is. Consider what the process is for upgrading the software with the latest security, and how the company rolls out new features to determine the longevity of your access control system.

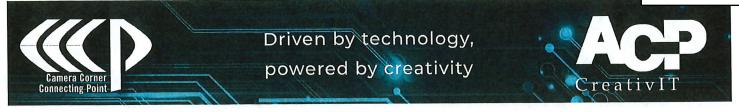




# AVIGILON

Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. motorolasolutions.com © 2023, Avigilon Corporation. All rights reserved. MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. Section 4, Item I.

Section 4, Item I.

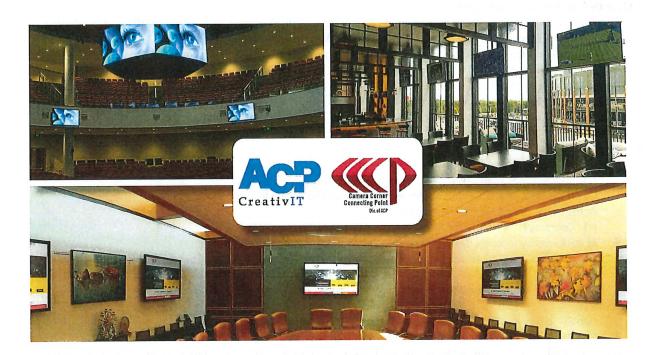


### **Training/Conference Room AV**

### Watertown Fire Department

Travis Teesch Fire Chief

tteesch@watertownwi.gov



### Our Mission:

To provide world-class technology solutions with an unwavering commitment to our Customers, Vendor Partners and Employees while providing an environment that encourages profitable growth, learning and fun!

Site Address: Watertown Fire Department 106 Jones St		Billing Address:		
Watertown Fire Departme	ent definis de l'estado de la silita de la compañía	Watertown Fire	e Department	
106 Jones St		106 Jones St		
Watertown WI	53094	Watertown	WI 53094	
ACP CreativIT LLC (d/b/a Ca	mera Corner Connecting Point or CCCP)	Project #:	OPP127765	
529 N. Monroe	851 Commerce Ct	Modified Date:	09/13/2024	
Green Bay, WI 54301	Buffalo Grove, IL 60089	Revision:	6	
Website: www.cccp.com	www.acpcreativit.com	Acct. Manager	Jason Hussong	



#### **Project Description:**

#### Integration Services Scope of Work

A. Summary: Watertown Fire Department is building a new facility and would like to incorporate AV into the training room. The goal of this project is to provide an integrated system that allows users to connect their laptops for presentations and web-based meetings. The system should be easy to use and provide good audio and video pickup in the space.

#### B. System Description (Training Room)

- a. Functionality Description: The Training room system features 3 displays each with a local HDMI input for sharing only on the adjacent display, and a feed from the main AV system. A 4 <sup>th</sup> display will be planned for future installation. The infrastructure will be installed and blanked off until the display is purchased and installed. Two cameras and ceiling mounted microphones and speakers will be used for web conferencing. The speakers will also be used for presentation audio. Users will connect their laptops to the HDMI and USB cable at the lectern. The touch controller at the lectern will be used for system control. The lectern will include a small 2 HDMI switcher to be used for user laptops and a Doc Cam. The Lectern will connect to a wall plate with two AV connections and power.
- b. Source Devices:

i.

- At the lectern
  - (1) User provided Laptops (HDMI connection at lectern)
  - (2) A new Hovercam document camera will be installed on the lectern.
- ii. At the Equipment Rack (storage room)
  - (1) Courtesy HDMI cable for HDMI Sources (PC, Media Player, Cable Box, Etc)
- iii. At each display location
  - (1) An HDMI input plate will be placed under each display to provide an easy access connection to the display.
  - (2) This input can be used for any HDMI source, breakout sessions, Emergency Ops, Etc.
- c. Displays:
  - i. Two 86" displays will be wall mounted on the front (south) wall.
  - ii. One 75" display will be mounted on the back wall between the windows
  - iii. A 4<sup>th</sup> display will be planned for on the west wall Exact location will be determined by the pillars in the room.
    - (1) All cabling power and boxes shall be installed at this location. The receiver can be placed in the equipment rack until the display is installed at a later date.
- d. Video Switching
  - i. A video switcher in the equipment rack will route video signals to the displays in the room. All four displays will be sent the same content.
  - ii. Long HDMI runs will be extended using twisted pair HDMI transmission.
- e. Audio:
  - i. 6 boundry microphones will be installed in the ceiling to provide even pickup in the room
  - ii. 8 Ceiling speakers will be installed in the ceiling to provide even audio coverage in the room.
  - iii. A Qsys DSP will be used as the audio processor for the microphones and provides a USB connection for the laptop.
- f. Conferencing:
  - i. A QSYS system will be installed bringing cameras and audio into one platform for managing, switching, controlling, and USB Bridging.

### Training/Conference Room AV

- ii. The Qsys system allows users to connect their laptops to the USB Cable at the lectern or at the equipment rack, this will make the room peripherals (Cameras, mics, and speakers) available to the laptop.
- iii. Users can select the room camera, speakers and microphones in applications such as MS Teams, Zoom, Google Meets and streaming applications.
- iv. The cameras are network connected through a stand-alone switch to the QSYS Processor.

#### g. Controls:

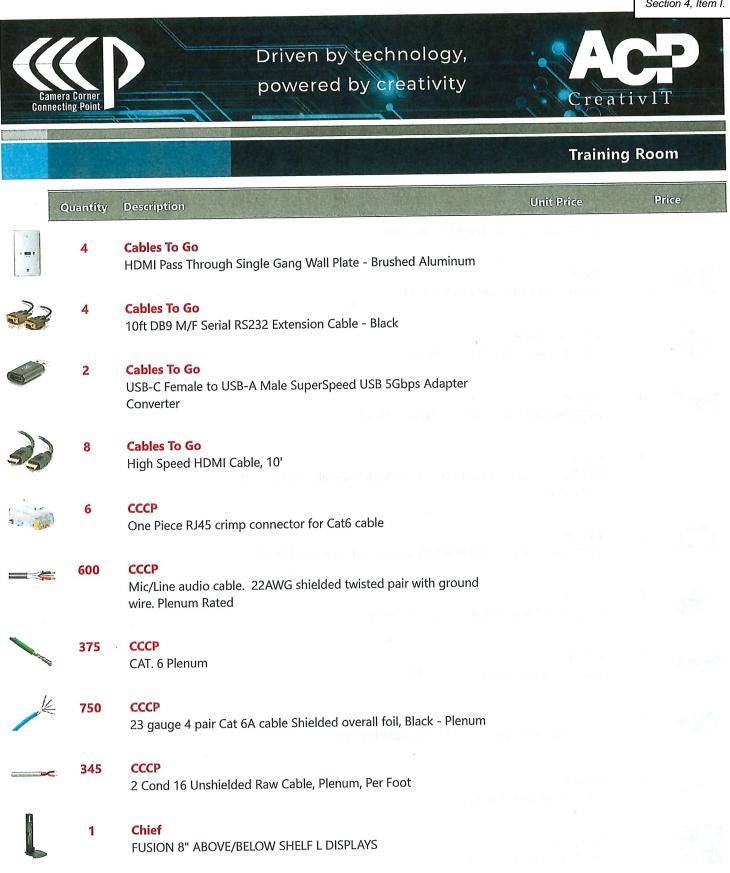
- i. A QSYS touch controller, with bridging license, will be provided on the lectern to control the system. The Bridging license allows users to connect to the USB port for conferencing.
- ii. The touch controller will have the following controls.
  - (1) System on/off (turns displays on/off)
  - (2) Video source switching
    - (a) Change inputs of each display to local HDMI or AV System
    - (b) Default setting will select the AV System as the display source.
  - (3) Audio Routing
  - (4) Room Volume
  - (5) Privacy Mute.
  - (6) Camera Page includes Camera switching, PTZ Controls, 6 customizable presets per camera.
- iii. The control system will also be available on laptops, tablets, and other network connected devices by scanning a QR code at the rack location.
  - (1) This allow users to control the system even if the lectern is not connected.
  - (2) Laptops and tablets must be connected to the same Wi-Fi network/subnet.
- h. Networking:
  - i. A standalone network switch will be installed in the Rack for control connections. This system does not need to be connected to the building network.
  - ii. A building network connection is recommended for portable control of the system.
    - (1) This connection must be tied to the same Wi-Fi network that the portable devices use.
    - (2) A network drop will be required at the rack location (BY OTHERS)
- i. Electrical: (By Others)
  - i. Power will be required at the display locations. Single 15a outlet
  - ii. Power will be required at the lectern connection location. Single 15a outlet
  - iii. Power will be required at the Equipment rack location. Duplex 15a outlet
- j. Equipment Location:
  - i. The system equipment will be installed in a wall mounted rack in the storage room adjacent to the training space.
  - ii. A lectern connection plate will be installed at the front of the room
    - (1) The plate includes a Video and Touch panel connection.
      - (2) The lectern will be connected to the plate via a cable whip.
- C. Exclusions: The following work is not included in our Scope of Work:
  - a. All conduit, high voltage, wiring panels, breakers, relays, boxes, receptacles, etc.
  - b. Concrete saw cutting and/or core drilling.
  - c. Fire wall, ceiling, roof and floor penetration.
  - d. Necessary gypsum board replacement and/or repair.
  - e. Necessary ceiling tile or T-bar modifications, replacements and/or repair.
  - f. All millwork (moldings, trim, cut outs, etc.).
  - g. Patching and Painting.
  - h. Permits (unless specifically provided for and identified within the contract).
- D. Construction Considerations:
  - a. In order to accomplish the outlined goals of this project, the Customer will be responsible for contracting with an outside entity to make the necessary modifications to the space as directed by ACP/CCCP. The costs associated with these modifications are not included in this proposal.

#### **Project Resources:**

Account Manager:	Jason Hussong	Design Engineer:	Brad Behling	

Section 4, Item I.

Control Programming:	QSYS Control	DSP Programming:	QSYS DSP
Project Manager:	TBD	Trainer:	TBD
Network Engineering:	Netgear (Standalone)	VOIP Engineering:	NA
Other:	Logitech System Configuration	Other:	Travel Charges and Overnight stays included



# Training/Conference Room AV





K

1

2

Chief

Chief

FUSION PULLOUT







# Training/Conference Room AV

183

### QSC LLC

1

1

1

6

12

1

110° Horizontal Field of View, ePTZ network camera, PoE, includes mounting bracket for monitor and surface mounting



#### QSC LLC

12x Optical Zoom 80° Horizontal Field of View, PTZ Network Camera, PoE, with HDMI and SDI output. Includes PTZ-WMB1 wall mount bracket

#### Rack/System Hardware

Rack Screws, Plates, Lacing Bars, Cable ties, Etc.

- 10 Liberty AV Solutions LOW VOLT MT/BRKT SG RETRO
- 1 Middle Atlantic 10 PACK L LACER BAR
- 1 Middle Atlantic 100PC 10-32 RACK SCREWS W
- 10 VANCO Single Gang Plate with Brush Style Grommet - White
- 1 Velcro Hook-and-Loop Cable Tie Roll, 0.5" W x 75' L



#### Sennheiser

Wired ceiling boundary microphone with omni pickup pattern.



#### Sentinel

Category 6A and 6 RJ45 Plug For Larger Size Conductors (.044"-.048")

Tripp Lite

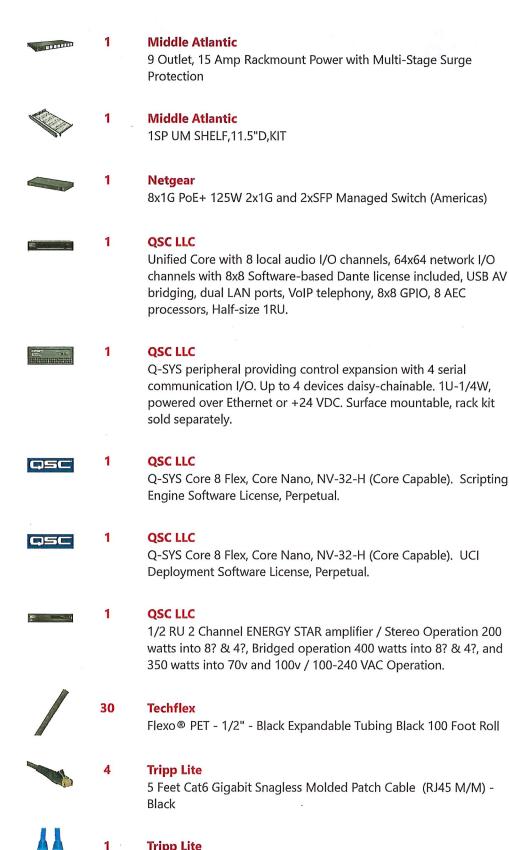
CAT6 Patch Cable, GREEN, 25'

# Training/Conference Room AV

# Training Room: Equipment Rack

Ī	Quantity	Description	Unit Price	Price
2	, 1	<b>Cables To Go</b> High Speed HDMI Cable, 1'	이라는 이라이 가지 이다. 이다. 이다. 이다.	
2	2	<b>Cables To Go</b> High Speed HDMI Cable, 3'		
	: <b>16</b>	<b>CCCP</b> Mic/Line audio cable. 22AWG shielded twisted pair with ground wire.		
= 4	30	<b>CCCP</b> Control Cable. 22AWG shielded twisted pair with ground wire.		
Í.J	1	<b>Comprehensive</b> USB 3.1 C Male to C Male Cable 10ft.		
	2	<b>Extron</b> HDMI Twisted Pair Transmitter - 230 feet (70 m)		
	1	<b>Extron</b> HDMI Twisted Pair Transmitter with Input Loop-Through - 230 feet (70 m)		
0	5	<b>Extron</b> 4K Premium High Speed HDMI Ultra-Flexible Cable - 15' (4.5 m)		
	a) 1	Extron Standard Model		
	a <b>1</b>	<b>LinkUSA Inc</b> Custom Panel, 1RU, UV Printed, (1) etherCON Passthrough CCCP Logo		
	4	Middle Atlantic 1SP FLANGED ECONO BLANK		
	1	Middle Atlantic 10SP/17D ECONO WLRK,BK,DR		
	<b>Training</b> Project No :	/Conference Room AV OPP127765 Rev. 6 9/13/2024	Page	9 of 19

100



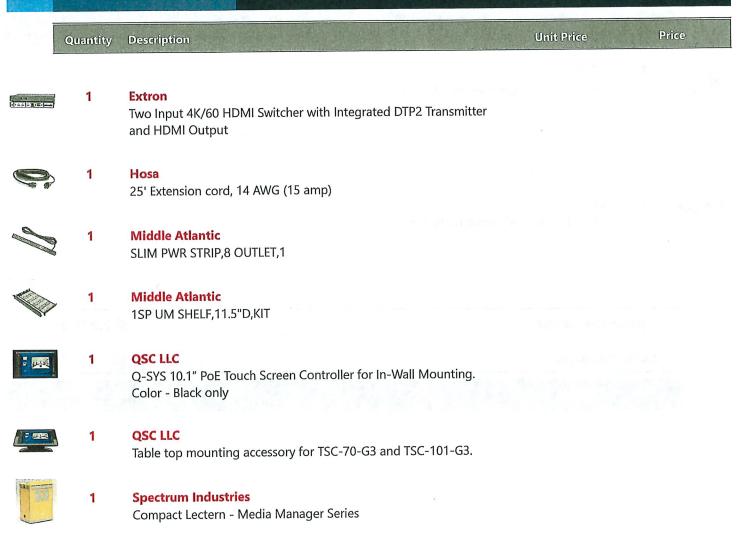
**Tripp Lite** 

CAT6 Patch Cable, 10', Blue

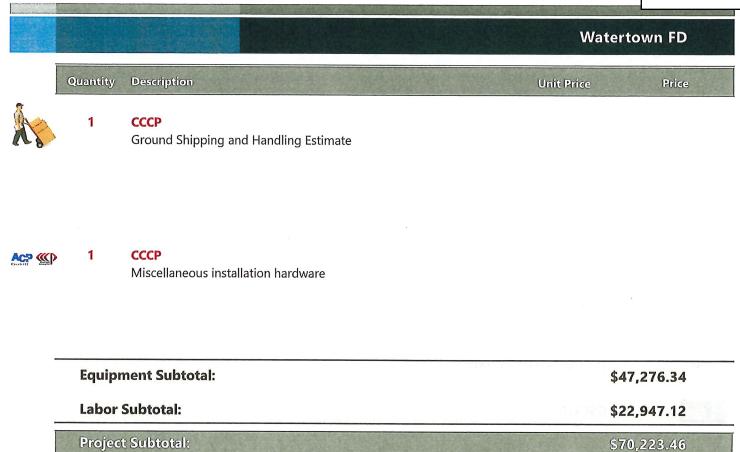
# **Training/Conference Room AV**

Page 10 of 19

### **Training Room: Lectern**



### Training/Conference Room AV



Training/Conference Room AV

# PROJECT SUMMARY

\$7,022.35

Equipment: Labor:		\$47,276.34 \$22,947.12
Grand Total:		\$70,223.46
Payment Schedule	Amount	Due Date
Initial Deposit	\$35,111.73	
Equipment Delivery	\$28,089.38	

Training/Conference Room AV

ect No : OPP127765

**Final Acceptance** 

#### **Planned Down Time**

ACP CreativIT LLC will provide prior notice of any necessary system outages during the implementation. In case of unforeseen issues during the installation and cutover, ACP CreativIT LLC will make every effort to minimize any interruption.

#### Testing

ACP CreativIT LLC will verify that the system and features meet the customer's expectations, as laid out in this document. This includes ensuring that the present functionality of the system is still available unless directed otherwise.

#### First day of Service

On the first day of service, ACP CreativIT LLC will be available for the customer to discuss questions or issues they may have. We will document all issues and work quickly to resolve them.

#### **Return Policies**

We strive to provide our customers with the highest level of service possible. From first visit to order delivery and installation, we want you to be completely satisfied with your experience.

#### Unless specified, the manufacturer's product warranty does not cover the labor to fix defective product(s).

Unless specified otherwise, all products are covered by the manufacturer's warranty. Please identify any concerns that you have within 30 days of the invoice date. Any issues after the first 30 days will be subject to the restrictions and limitations imposed by our vendors. All cancelled orders/returns are subject to a 15% restocking fee. Opened software is not returnable. Special order/non-stock items may not be returnable or may be subject to a higher restock fee. Vendor approval will be required prior to the return of opened hardware. Defective hardware may be returned for exchange only. Support blocks are non-refundable. Refund checks will be mailed. A RETURN AUTHORIZATION ("R.A") REQUEST must be placed by filling out our online Return Authorization Request and is required for ALL returns. (Go to www.cccp.com and click on the Return Authorization Request Form link under Policies & Terms.). You will get a response within 48 hours of your request. Merchandise must be returned within 7 days of the issuance of the R.A. Please do not write on original packaging or boxes. In addition, save all boxes and packing material as they are required for

returns/rebates and repairs.

ACP CreativIT LLC inspects all returns and reserves the right to return merchandise that does not meet manufacturers return authorization criteria.

If you have additional questions, please email returns@cccp.com.

#### Programming

Programming performed by ACP CreativIT LLC is subject to a limited warranty. ACP CreativIT LLC warrants that the physical medium on which this programming is located is free from defects and that the products impacted by this programming will perform as outlined in this SOW. This limited warranty is good for 60 days from the date of invoice. See Programming Addendum to the SOW if applicable.

#### Supply Chain

Many of the industries we serve are experiencing considerably longer-than-normal lead times due to COVID-19 related shortages in raw material, production material, semiconductor and microchips, as well as other supply chain issues. As a result of these issues, equipment, material lead times and prices of products we use in the design of projects and customer proposals are subject to change, and may unexpectedly be discontinued without notice. ACP CreativIT/Camera Corner Connecting Point is not responsible for any hardship to our customers caused by these issues, though we will work diligently with the customer and our vendor partners to resolve

these issues as quickly and as cost effectively as possible.

#### Disclaimers and Limitations of Liability

ACP CreativIT LLC WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, PROPERTY DAMAGE, LOST TIME, LOSS OF USE OF ANY EQUIPMENT OR ANY OTHER DAMAGES RESULTING FROM THE BREAKDOWN OR FAILURE OF ANY EQUIPMENT OR FROM DELAYS IN SERVICING OR THE INABILITY TO RENDER SERVICE ON ANY EQUIPMENT. ACP CreativIT LLC LIABILITY FOR DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, ACP CreativIT LLC NEGLIGENCE OR INSTALLATION OF DEFECTIVE PARTS OR COMPONENTS, WHETHER OR NOT SUCH DEFECT WAS KNOWN OR DISCOVERABLE, SHALL NOT EXCEED THE ACTUAL PRICE PAID TO ACP CreativIT LLC BY CLIENT FOR THE EQUIPMENT OR PARTS, WHICHEVER IS LESS.

#### Contact for Service

When you need to place a service call to ACP CreativIT LLC, please call us at (920) 438-0333. We will take your name, a brief description of the trouble, and a call back number. We will then contact one of our qualified associates to follow up on your request.

#### **Statement of Confidentiality**

This Statement of Work and proposal is the proprietary and confidential property of ACP CreativIT LLC. By accepting possession of this document, the company named in this document agrees to keep the contents in confidence and not to use, duplicate, or disclose for any purpose other than the purpose of evaluating ACP CreativIT LLC ability to provide the services herein, unless otherwise agreed to in writing by ACP CreativIT. On request by ACP CreativIT, the company named in this document agrees to return the copies of the Statement

#### Training/Conference Room AV

Project No : OPP12776

of Work to ACP CreativIT, together with the other materials supplied by ACP CreativIT.

#### **Non-Solicitation of Personnel**

Client agrees not to solicit, directly or indirectly (through individuals, subsidiaries, holding companies, partnerships, subcontractors, employment agencies or any other financially related firms), nor to tender an offer for employment nor place on their payrolls any present ACP CreativIT LLC employee who becomes known to Client in connection with the proper performance of this Agreement during the term of this Agreement and for a period of one (1) year after its termination. In the event Client hires or contracts with a ACP CreativIT LLC employee in violation of the terms of this paragraph, the Client agrees to pay ACP CreativIT LLC as liquidated damages, and not as a penalty, an amount equal to one half of the employee's annual compensation, including but not limited to wages, bonuses and fringe benefits.

#### Post Installation Review

ACP CreativIT LLC wants to get your feedback to understand how we could serve you better, and improve our relationship with you. We may also ask for referrals or testimonials. Please feel free to contact us with any questions you may have.

#### Approval for Acceptance and Authorization of Project Completion

ACP CreativIT LLC will work with you to resolve any problems and answer any questions you have regarding the system implementation. Your signature of acceptance will be asked for upon completion of the project.

#### Approval for Contact Information/Logo Placement

ACP CreativIT LLC will place our logo and contact information on a 1U blank rack panel to provide you convenient contact information.

#### **Approval for Pictures of Completed Project**

ACP CreativIT LLC may take pictures of the equipment upon completion of the project. They will be primarily used to document the installation work and reference in the future if design changes or troubleshooting is required. Your signature of acceptance will be asked for upon completion of the project.

#### Other Approvals

Throughout this project, ACP CreativIT LLC may provide the customer with other documents requiring approval before we begin a particular phase of the project. Such documents are addendums of this document and are subject to all of the same guidelines stated in this document. A non-exhaustive list of examples would include a Programming Addendum to the SOW and a Custom Plate Addendum to the SOW.

#### Subcontractors

ACP CreativIT LLC may use subcontractors to assist on this project. All work by subcontractors will be directed and/or supervised by ACP CreativIT LLC staff. Tasks that subcontractors may be utilized for include the following:

- Low voltage cabling including Cat. 6 cabling
- Conduit and raceway work as required
- Physical installation of devices and equipment

#### Remote Access

Unless specifically directed otherwise, ACP CreativIT LLC will install TeamViewer software on the any provided servers and create a ACP CreativIT LLC account on the system. This access will be used to facilitate service and repair issues as well as programming changes as directed by the owner.

Project No: OPP127765

# Acceptance and Authorization of SOW

IN WITNESS WHEREOF, the parties hereto each acting with proper authority Accept this Statement of work

Project Name: Training/Conference Room AV

Travis Teesch	Jason Hussong	Bradley Behling
Customer Printed Full Name	ACP CreativIT LLC Acct Rep Full Name	ACP CreativIT LLC Engineer Full Name
Fire Chief	<u>Account Manager</u> <sub>Title</sub>	Designer Title
Signature	Signature	Signature
Date	Date	Date

An authorized signature on this document acknowledges that the customer has read our Return Policy located on the Company Info page of the ACP CreativIT LLC website <u>www.cccp.com</u>.

After all parties have signed, please provide original to customer and a copy to ACP CreativIT LLC.

# **Acceptance and Authorization of Project Completion**

IN WITNESS WHEREOF, the parties hereto each acting with proper authority Accept this Statement of work

Project Name: Training/Conference Room AV

Travis Teesch	Jason Hussong	Bradley Behling
Customer Printed Full Name	ACP CreativIT LLC Acct Rep Full Name	ACP CreativIT LLC Engineer Full Name
Fire Chief	Account Manager	Designer
Title	Title	Title
Signature	Signature	Signature
Date	Date	Date
n we use you as a reference or te	estimonial for the work just completed? Ye	os No
o, may we ask why?		

After all parties have signed, please provide original to customer and a copy to ACP CreativIT LLC.

#### Assumptions

The list of assumptions below was used to develop this Statement of Work and Quote. If any of these assumptions are not correct or if additional, unanticipated information was uncovered during the project, it may affect the SOW and Quote relative to the installation timeline and/or price. If so, a change order (discussed below) will be written and signed off by the customer before this additional work is performed.

1.

- 2. The room(s) match(es) the drawings provided
- 3. Site preparation by the Customer and their contractors includes electrical and data placement per ACP CreativIT specification.
- 4. Site preparation will be verified by ACP CreativIT project manager or representative before scheduling of the installation. All work areas should be clean and dust free prior to the beginning of on-site integration of electronic equipment.
- 5. Customer communication of readiness will be considered accurate and executable by ACP CreativIT project manager.
- 6. In the event of any arrival to site that ACP CreativIT is not able to execute work and definable progress, the Customer will be charged a \$110/hr per installer Fee to offset the lost time due to the lack of readiness. The Fee will be presented as a Contract Change Order and will/may halt work until acceptance by the Customer and rescheduling of the integration effort is agreed upon.
- 7. Rescheduling and redeployment of ACP CreativIT technicians due to unacceptable site preparation may cause scheduling delays of up to 10 business days.
- 8. There is ready access to the building / facility and the room(s) for equipment and materials.
- 9. There is secure storage for equipment during a multiple-day integration.
- 10. If Customer furnished equipment and existing cabling is to be used, ACP CreativIT assumes that these items are in good working condition at this time and will integrate into the designed solution. Any repair, replacement and/or configuration of these items that may be necessary will be made at an additional cost.
- 11. All Network configurations including IP addresses are to be provided, operational and functional before ACP CreativIT integration begins. ACP CreativIT will not be responsible for testing the LAN connections.
- 12. Cable or Satellite drops must be in place with converter boxes operational before the completion of integration. Any delay resulting in extra work caused by late arrival of these items will result in a change order for time and materials.
- 13. Document review / feedback on drawings / correspondence will be completed by the Customer within two business days (unless otherwise noted)
- 14. The documented Change Control process will be used to the maximum extent possible the Customer will have an assigned person with the authority to communicate/approve project Field Directed Change Orders and Contract Change Orders
- 15. In developing a comprehensive proposal for equipment and integration services ACP CreativIT's Account Managers and Engineering teams must make some assumptions regarding the physical construction of your facility, the availability of technical infrastructure and site conditions for installation. If any of the conditions we have indicated in the site survey form are incorrect or have changed for your particular project or project site, please let your Sales representative know as soon as possible. Conditions of the site found during integration effort which are different from those documented may have an effect on the price of the system solution, integration or services. To ensure that you have an accurate proposal based on your facility and specific to the conditions of your project, please review all project documentation carefully.

#### **Customer Responsibilities**

Customer, at its expense, shall:

- A. Provide employees or agents of ACP CreativIT LLC:
  - reasonable access to the premises and facilities
  - suitable and easily accessible floor space that's close to the project area
  - necessary power and grounding
  - an environment that prevents equipment from over-heating and/or exposure to moisture
  - floor plans
  - any other information as needed
- B. Communicate all project related issues with ACP CreativIT LLC in a timely basis such that the project timeline is not imperiled.

Training/Conference Room AV

oject No : OPP12776

Page 14 of 19

- C. Provide all required licensing and software needed to ensure the timely backup of data as well as protection from viruses and other risks at all levels of the network.
- D. Confirm all drop ship items have arrived.
- E. Do not write on original packaging or boxes. Save all boxes and packing material as they are required for returns/rebates and repairs.
- F. Cover the cost of lift rentals, if necessary to access and/or install all equipment included in this project.
- G. Upon request and prior to scheduling, provide photographic confirmation of the completed customer responsibilities.
- H. Upon project completion, review and verify the system implemented by ACP CreativIT LLC.

#### Work Schedule/Billing Rate

**Rates** - Regular billing hours are 7:30am – 5:30pm Monday through Friday. Any work performed outside that range is billed at the afterhours rate. Refer to the Billing Rate Schedule below.

ACP CreativIT LLC will work with the customers schedule when after-hours work is required. ACP CreativIT LLC will confirm the installation timeframe with the customer.

<u>Time</u>	<u>Rate</u>	per Hour
7:30am — 5:30pm (M-F)	Publis	shed Rate
5:30pm – 7:30am (M-F)	1.5x	Published Rate
Saturdays (7:30am-5:30pm)	1.5x	Published Rate
Saturdays (5:30pm-12:00am Sunday)	2x	Published Rate
Sundays (until 7:30am Monday)	2х	Published Rate
Holidays	Зx	Published Rate

**Travel** – For any customer within 60 miles of its corporate offices ACP CreativIT LLC charges for service from the time we leave our corporate office until the time our work is complete (i.e., we charge travel to the customer's location, but not from). In addition, for all service calls greater than 60 miles from our offices, ACP CreativIT LLC reserves the right to charge an additional fee for zone travel charges. In addition, gas prices may at times, require us to include a small surcharge on dispatched trips from our technical team. Your account rep can explain how these charges may apply to you.

#### (continued on next page)

Labor – Labor for this project is to be billed as follows:

- Time and Materials billed off Sales Order
- □ Time and Materials billed off Block
- D Project Based (flat fee no matter how long it takes excluding costs associated with change orders)

Billing Rate - The billing rate for this project is based on current published rates:

\$115/hr
\$175/hr
\$150/hr
\$175/hr
\$190/hr minimum (certification dependent)

#### **Special Notes on Billing:**

#### Terms

**Consulting** 

<u>Product</u>

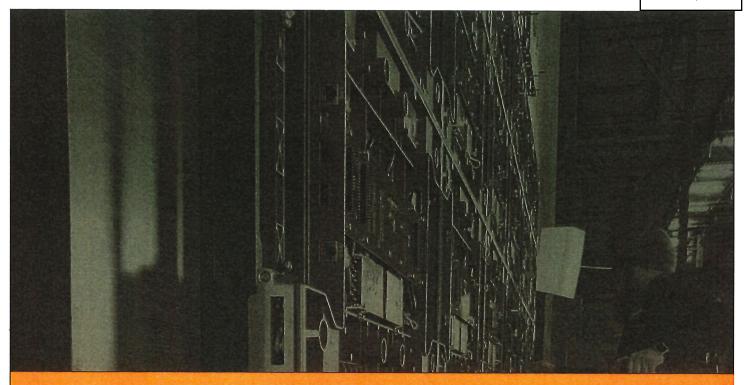
<u>Labor</u>

% to be Pre-Paid: % to be Paid n/30: % Special Terms: % to be Pre-Paid: % to be Paid n/30: % Special Terms: % to be Pre-Paid (from o % to be Paid n/30: % Special Terms:

#### **Change Management**

ACP CreativIT LLC will review change requests to this Statement of Work by you. As part of this review, ACP CreativIT LLC will prepare a Change Order (available upon request) that documents the request and, if applicable, any impact on the project schedule and pricing. ACP CreativIT LLC will incorporate the change into the project schedule and scope of work upon receipt of your signed Change Order. Changes requested can affect the implementation schedule and services quoted. The following personnel at your company are authorized to make change orders:

Name	Title
Name	Title
Name	Title



# Watertown Fire Station Training Room

The City of Watertown

# Proposed by:



PRODUCTIONS

Creative sound, video & lighting solutions

The design and proposal described by these specifications remains the property of Majic Productions. It is proprietary information written expressly for the addressed recipient. Neither the content itself, nor any duplication of the specifications, items or any portion thereof, may be utilized or distributed by anyone without written permission of Majic Productions.

Unassigned	1				
		0.0.0			
	2		cal Zoom 80; Horizontal Field of View, PTZ Network Cam d SDI output. Includes PTZ-WMB1 wall mount bracket	era, PoE, with	
and for Assault ( )		200	Windy City Wire 23 AWG 4 Pair, Non-Shielded Plenum Rated Category 6		
		ta her ta	a d'Aven de ser la destru presentation de la c		
		4	Windy City Wire RJ45 Connector for Round Solid Cable		
			and Data 3 P 2013 - C 0 9 and - C 2014		
Unass	igned To	otal			\$7,288.32
	5				
Ceiling			nt a construction Construction of the second		
	2	Shure			
		Ceiling	srray Microphone, Square, White, 24 inch		
<b>6</b> 1		200	Windy City Wire		
			23 AWG 4 Pair, Non-Shielded Plenum Rated Category 6		
(Is		4	Windy City Wire		
			RJ45 Connector for Round Solid Cable		
	12	Sonanc PS-C63	e T WHITE		
ing ingenieration (c		600	Windy City Wire 16 AWG 2 Conductor, Plenum Speaker Cable		
Ceilin	g Total		tota sinski tako Bilitanak kongeti daga		\$10,479.92

\* Price Includes Accessories

## Watertown Fire Station Training Room

Project No : MAJIC-1133

9/6/2024

Lectern			
$\int$	1	<b>Gator</b> Frameworks 13" Solid Steel Gooseneck with Black Finish	
	1	<b>QSC</b> 4K60 4:4:4 Network Video Endpoint for the Q-SYS Ecosystem, software configurable as Encoder or Decoder. 3 HDMI 2.0 Inputs, 2 HDMI 2.0 Outputs, on- board AV Bridging. Supports optional stand-alone ÒQ-SYS Core Mode" operation for audio DSP with local video switching (no encoding or decoding) and AV Bri	
		1 C2G 2m USB 3.0 AM-BM CBL BLK	
		2 C2G 6ft/1.8M High Speed HDMI Cable w/ Eth	
e 6		<ul><li>100 Windy City Wire</li><li>23 AWG 4 Pair, Non-Shielded Plenum Rated Category 6</li></ul>	
		2 Windy City Wire RJ45 Connector for Round Solid Cable	
	1	<b>QSC</b> Q-SYS 7Ó PoE Touch Screen Controller for In-Wall Mounting. Color - Black only	
		1 QSC Table top mounting accessory for TSC-70-G3 and TSC-101-G3.	
		<ul><li>100 Windy City Wire</li><li>23 AWG 4 Pair, Non-Shielded Plenum Rated Category 6</li></ul>	ĩ
		2 Windy City Wire RJ45 Connector for Round Solid Cable	
	1	<b>Shure</b> Mounting Flange, Heavy Duty, Black	

\* Price Includes Accessories

# Watertown Fire Station Training Room

# Î

1 Shure

Access Point/Charger/DSP - 2 Ch.

100 Windy City Wire23 AWG 4 Pair, Non-Shielded Plenum Rated Category 6

Lectern Total

\$5,246.30

\* Price Includes Accessories

## Watertown Fire Station Training Room

Project No: MAJIC-1133

Rev. 0 9

Page 4 of 10

South Wall			
Nata (173) Attack of St	2	_	<b>ofessional</b> 0x2160 4K 440nit, 24/7 display - Black
1		2	C2G Decora Wall Plate HDMI F/F White
		2	C2G 6ft/1.8M High Speed HDMI Cable w/ Eth
		2	C2G 10ft/3M High Speed HDMI Cable w/ Eth
		2	CHIEF Tempo Flat Panel Wall Mount System, PDU Bundle
:		2	CHIEF IN-WALL LARGE WHT - W/ SURGEX 1 OUTLET
NO NO C		2	Juice Goose iP Series Slim Line Web Based Power Controller with RX Series Surge Protection Technology
USR .		2	QSC 4K60 4:4:4 Network Video Endpoint for Q-SYSEcosystem, software configurable as Encoder or Decoder. 1 HDMI 2.0 Input, 1 USB-C Input, 1 HDMI 2.0 output. Optional Software License to enable AV Bridging (SLQBR-P).
<b></b>		600	Windy City Wire 23 AWG 4 Pair, Non-Shielded Plenum Rated Category 6

South Wall Total

\$14,264.00

\* Price Includes Accessories

# Watertown Fire Station Training Room

Project No: MAJIC-1133

Rev.0

9/6/2024

Back Wall				
	1	-	o <b>fessional</b> x2160 4K 440nit, 24/7 display - Black	
. 10		1	C2G Decora Wall Plate HDMI F/F White	
		1	C2G 6ft/1.8M High Speed HDMI Cable w/ Eth	
		1	C2G 10ft/3M High Speed HDMI Cable w/ Eth	
		1	CHIEF Tempo Flat Panel Wall Mount System, PDU Bundle	
1		1	CHIEF IN-WALL LARGE WHT - W/ SURGEX 1 OUTLET	
iten SU IR W VC ≥		1	Juice Goose iP Series Slim Line Web Based Power Controller with RX Series Surge Protection Technology	
		1	QSC 4K60 4:4:4 Network Video Endpoint for Q-SYSEcosystem, software configurable as Encoder or Decoder. 1 HDMI 2.0 Input, 1 USB-C Input, 1 HDMI 2.0 output. Optional Software License to enable AV Bridging (SLQBR-P).	
<b>a</b> (5)		300	Windy City Wire 23 AWG 4 Pair, Non-Shielded Plenum Rated Category 6	

Back Wall Total

\$6,180.40

\* Price Includes Accessories

# Watertown Fire Station Training Room

Project No: MAJIC-1133

Rev.0

9/6/2024

MAJIC-1133

Page 6 of 10

201

West Wall		
- ~	1	<b>C2G</b> Decora Wall Plate HDMI F/F White
Ì	1	<b>C2G</b> 6ft/1.8M High Speed HDMI Cable w/ Eth
	1	<b>C2G</b> 10ft/3M High Speed HDMI Cable w/ Eth
	1	<b>CHIEF</b> Tempo Flat Panel Wall Mount System, PDU Bundle
:	1	CHIEF IN-WALL LARGE WHT - W/ SURGEX 1 OUTLET
Pine □ ₩₩₩E	1	<b>Juice Goose</b> iP Series Slim Line Web Based Power Controller with RX Series Surge Protection Technology
CZS -	1	<b>QSC</b> 4K60 4:4:4 Network Video Endpoint for Q-SYSEcosystem, software configurable as Encoder or Decoder. 1 HDMI 2.0 Input, 1 USB-C Input, 1 HDMI 2.0 output. Optional Software License to enable AV Bridging (SLQBR-P).
4	300	Windy City Wire 23 AWG 4 Pair, Non-Shielded Plenum Rated Category 6

West Wall Total

\$3,622.00

\* Price Includes Accessories

# Watertown Fire Station Training Room

Rev.0

9/6/2024

MAJIC-1133

# A105A - Storage Closet

1	1	<b>LEA Professional</b> 2 Channel x 350 watt @ 41/2, 81/2, 70V and 100V per channel. Internal DSP w/ Crossovers and Dante, IoT Device with built in WiFi Hotspot, Wifi or FAST Ethernet connectivity and Highly Efficient Power Supply with Class D Output Stage
@majic	1	Majic Productions Shipping, Handling, Logistics
	1	Middle Atlantic 12SP/22D ECONO WALLRK BK
		1 Hubbell late, Frame, Decorator, with 2HDMI, FF, Black
		1 Middle Atlantic 1SP PNL W/(1)DECORA OP BK
		1 Middle Atlantic 12SP REAR RL KIT DWR/EWR
		7 Middle Atlantic 1SP FLANGED ECONO BLANK
~		1 Middle Atlantic 10PK LACING BARS W/1.5OFF
	1	<b>Middle Atlantic</b> Premium+ PDU with RackLink
and the	1	<b>Netgear</b> NETGEAR AV Line M4250-26G4F-PoE++ 24x1G Ultra90 PoE++ 802.3bt 1,440W 2x1G and 4xSFP Managed Switch
	1	<b>QSC</b> 4K60 4:4:4 Network Video Endpoint for the Q-SYS Ecosystem, software configurable as Encoder or Decoder. 3 HDMI 2.0 Inputs, 2 HDMI 2.0 Outputs, on- board AV Bridging. Supports optional stand-alone ÒQ-SYS Core Mode" operation for audio DSP with local video switching (no encoding or decoding) and AV Bri

\* Price Includes Accessories

# Watertown Fire Station Training Room

Project No: MAJIC-1133

Rev.0

9/6/2024

MAJIC-1133

33	1	C2G 3FT CAT6 SNAGLESS STP CABLE-BLK
Q	3	C2G 6ft/1.8M High Speed HDMI Cable w/ Eth
S.	1	Majic Productions 5' Cat6 Patch Cable - Black
@Dante	1	QSC Q-SYS Software-based Dante 32x32 Channel (16x16 Flows) License, Perpetual.
	1	QSC Q-SYS Core 8 Flex, Core Nano, NV-32-H (Core Capable) license for Microsoft Teams Room software features, enables both Q-SYS Scripting and UCI Deployment, Perpetual
	1	QSC Q-SYS Core Mode Video Streaming feature license. Enables network video encoding or decoding on Q-SYS NV-32-H (Core Capable) when in Core Mode. Perpetual.

A105A - Storage Closet Total

\$12,972.16

Section 4, Item I.

**Project Subtotal:** 

\$60,053.10

\* Price Includes Accessories

Watertown Fire Station Training Room

Project No : MAJIC-1133

Rev.0

9/6/2024

# PROJECT SUMMARY

Equipm	nent:	\$60,053.10
Labor:		\$22,155.00
		\$82,208.10
Grand	Total:	402,200.10
Client:	Mark Stevens	Date
Contractor:	Majic Productions	Date

Watertown Fire Station Training Room

9/6/2024



# 10/3/24

Proposal: Security Camera System for Watertown Fire Station

Presented to: City of Watertown

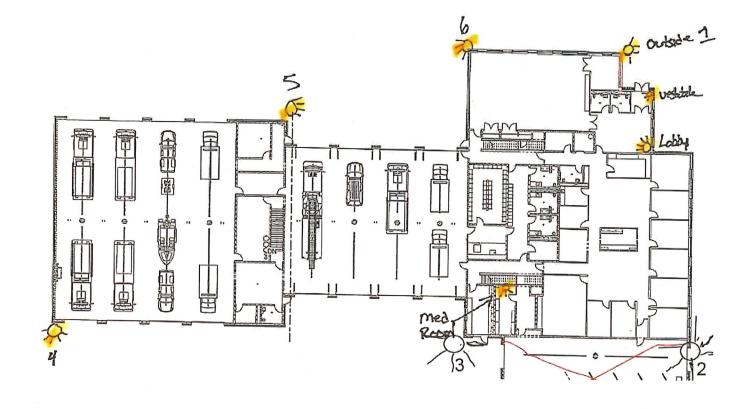
Presented by: DIGICORP, INC.

Jeff Jezuit William Lentz Tom Phelps Scott Craig



(262) 402-6100 😭 info@digicorp-inc.com 🛤 DIGICORP-INC.COM ⊗

### **Proposed Camera Layout**



DIGICORP

(262) 402-6100 🕿

info@digicorp-inc.com 🛤

DIGICORP-INC.COM ⊗

#### **Pricing Summary**

# Camera System (Axis Cameras and ExacqVision NVR Server):

# i. Equipment

<u>QTY</u>	ITEMS/DESCRIPTION	<u>MSRP (Unit</u> <u>Price)</u>	<u>Est. Sales</u> Price (Unit)	<u>Est. MSRP</u> (Extended)
6	<ul> <li>Axis P3735-PLE 4-sensor Multi-Directional Outdoor Rated camera:</li> <li>4 x 5 Megapixel varifocal sensors are individually positioned to capture views in 4 directions, up to 360°</li> <li>Each lens can be individually adjusted to provide a 108° - 40° horizontal field of view and 55° - 23° vertical field of view</li> <li>Axis Object Analytics with deep learning supported on all 4 sensors</li> <li>Forensic WDR, Lightfinder, and 360° IR illumination with individually controlled LEDs for balanced recording in challenging light conditions, low-light, and IR recording in total darkness</li> <li>Hardened security with Signed firmware, brute force delay protection, digest authentication, password protection and Axis Edge Vault</li> <li>Zipstream Technology with support for H.264 and H.265 to significantly reduce storage/bandwidth requirements</li> <li>5 Year Manufacturer's Warranty included</li> </ul>	\$ 1,499.00	\$ 1,287.00	\$ 7,722.00
6	AXIS T91A64 Corner Bracket - AXIS T91A64 Corner Bracket is compatible with AXIS T91B6 Wall Mount and AXIS T91D61 Wall Mount 1.5" NPS	\$ 89.00	\$ 76.00	\$ 456.00
6	AXIS T91D61 Wall Mount 1.5" NPS – Outdoor Rated – T91A6 Pipe Seal included - Compatible with Axis fixed dome pendant kits and ACI ¾" conduit adapters. The cables can be routed through the back or from the side using a conduit connection	\$ 99.00	\$ 85.00	\$ 510.00
6	AXIS T94N01D Pendant Kit allows AXIS P37 Network Cameras to be mounted on poles, parapets and outer corners using 1.5" NPS threaded brackets	\$ 99.00	\$ 85.00	\$ 510.00
3	Axis P3265-LV 2MP Indoor Dome Camera: Features include remote focus and zoom, P-Iris controlled varifocal lens with 100° - 36° horizontal /53° - 20° vertical field of view, day/night functionality, Lightfinder 2.0 with Forensic Wide-Dynamic Range and Optimized IR, Corridor Format, Object Analytics with deep learning processing unit (DLPU) enables advanced features and powerful analytics (e.g.classification of humans and vehicles) based on deep learning on the edge, built-in cybersecurity features such as Axis Edge Vault prevents unauthorized access and safeguards your system, audio and I/O connectivity, IP52 and IK10 impact rated, and Zipstream Technology with support for H.264 and H.265 to significantly reduce storage/bandwidth requirements; 5 Year Manufacturer's Warranty included	\$ 639.00	\$ 548.00	\$ 1,644.00
1	<ul> <li>ExacqVision X-Series 1U Rack Mount NVR Server with 32TB Raw Storage Capacity (24TB Usable with RAID 5) – Includes the following features:</li> <li>Supports up to 150 IP cameras</li> <li>CPU: Intel Xeon E2334-G Processor</li> <li>Memory: 16GB RAM (2 x 8GB DIMM modules)</li> <li>OS Drive: Dual 240GB Solid State (SSD) Drives in RAID 1</li> <li>Enterprise Class, Continuous-Duty Hot-Swappable Hard Drives (4 x 8TB Hard Drives, out of 4 total drive bays)</li> <li>RAID 5 configuration included for hard drive redundancy</li> <li>Operating System: WIN Server 2022 OS</li> <li>VMS Software: ExacqVision VMS Professional Software (Server, Client, and Mobile APP) with 8 x IP Camera Licenses Included</li> <li>NIC: 2 x 1GbE &amp; 4 x 1GbE</li> <li>Power: Redundant Hot Swappable Power Supplies</li> <li>iDRAC9 Enterprise Remote Server Management</li> </ul>	\$ 16,325.00	\$ 13,570.00	\$ 13,570.00

# DIGICORP

3315 N 124th St, Ste E Brookfield, WI 53005

(262) 402-6100 😭 info@digicorp-inc.com 🛤

DIGICORP-INC.COM

	<ul> <li>Hardware Health Monitoring with ExacqVision VMS Pro Software</li> <li>Rackmount sliding rail Kit included</li> <li>Manufacturer's Warranty includes 5 year hardware and 5 year SSA coverage (software updates)</li> </ul>			
1	ExacqVision Professional IP Camera License – Includes 1 year of software updates (extended to 5 years when purchased with a X-series NVR)	\$ 230.00	\$ 189.00	\$ 189.00
	Subtotal			\$ 24,601.00

## ii. Digicorp Labor- Camera System Installation

<u>Qty</u>	DESCRIPTION	Sales Price	Sales Price
		<u>(Unit)</u>	<u>(Extended</u>
1	Camera System Installation – Digicorp labor required for the following tasks:	\$ 4,978.00	\$ 4,978.00
	<ul> <li>Mount and focus 9 cameras (6 x outdoor and 3 x indoor)</li> <li>Install and Configure ExacqVision NVR</li> <li>Configure 9 cameras onto system</li> </ul>		
	*NOTE: We assume a suitable outdoor lift will be provided by the customer **Cabling required for cameras is not included, as it is being proposed separately		
	Subtotal		\$ 4,978.00

Total (Camera System) = \$29,579

**PROJECT NOTES:** Freight and taxes (if applicable) are not included.

We assume a suitable outdoor lift will be provided by the customer for camera installation. Low voltage cabling required to support proposed cameras is not included and is being proposed separately. Pricing will expire on 10/31/24.



(262) 402-6100 😭 info@digicorp-inc.com 🛤 DIGICORP-INC.COM ⊗

### Agreement

This Statement of Work ("SOW") is made as of the last date of signature below ("Effective Date") between Digicorp, LLC, a Wisconsin limited liability company hereinafter referred to as "Digicorp," and the customer identified below ("Customer"), and is subject to the terms and conditions located at <a href="https://www.wintechnology.com/digicorpterms">https://www.wintechnology.com/digicorpterms</a>.

Digicorp will provide to Customer the Services identified herein, for the estimated prices set forth in the Pricing Breakdown above.

IN WITNESS WHEREOF, the Parties have caused this SOW to be effective as of the Effective Date, by execution of their authorized representatives below.

	DIGICORP, LLC	CUSTOMER: <u>CITY OF WATERTOWN</u>		
-	Signature	Signature		
	Print Name	Print Name		
	Title	Title		
	Date	Date		

ι.



# 10/3/24

# **Proposal:**

Security Camera & Wireless Bridge for Light Pole Installation - Watertown Fire Station



Presented by: DIGICORP, INC.

Jeff Jezuit William Lentz Tom Phelps Scott Craig

and the second second



(262) 402-6100 😭 info@digicorp-inc.com 🛤 DIGICORP-INC.COM 🔗

#### **Executive Summary**

We're quoting a 4-sensor camera to be installed on a light pole outside of the main fire station building. This would be used to view the area around the training tower. Our plan is to deploy a wireless point-to-point bridge to effectively extend the network from the main fire station building to the light pole. We are assuming the electricians will provide suitable 100VAC electrical power to the light pole along with a NEMA enclosure to house the POE injectors we are proposing to help establish network connectivity to the proposed camera and Ubiquiti wireless device at the light pole.

A potential alternative to this wireless design would be to install the camera on the outside of a cold storage building that has been included on the recent construction drawings as a proposed option. With this plan, we would run ethernet cabling from the main fire station building into the cold storage building, and would assume the electricians would install suitable conduit into each building. We have not presented pricing for this option as the plans for the cold storage building have not been finalized.

#### **Pricing Summary**

#### i. Camera Equipment & Licensing

<u>QTY</u>	ITEMS/DESCRIPTION	MSRP (Unit	<u>Est. Sales</u>	Est. MSRP
		<u>Price)</u>	<u>Price (Unit)</u>	<u>(Extended)</u>
1	<ul> <li>Axis P3735-PLE 4-sensor Multi-Directional Outdoor Rated camera: <ul> <li>4 x 5 Megapixel varifocal sensors are individually positioned to capture views in 4 directions, up to 360°</li> <li>Each lens can be individually adjusted to provide a 108° - 40° horizontal field of view and 55° - 23° vertical field of view</li> <li>Axis Object Analytics with deep learning supported on all 4 sensors</li> <li>Forensic WDR, Lightfinder, and 360° IR illumination with individually controlled LEDs for balanced recording in challenging light conditions, low-light, and IR recording in total darkness</li> <li>Hardened security with Signed firmware, brute force delay protection, digest authentication, password protection and Axis Edge Vault</li> <li>Zipstream Technology with support for H.264 and H.265 to significantly reduce storage/bandwidth requirements</li> <li>5 Year Manufacturer's Warranty included</li> </ul> </li> </ul>	\$ 1,499.00	\$ 1,287.00	\$ 1,287.00
1	AXIS T91B67 Pole Mount – Designed for indoor/Outdoor use – Fits onto poles 65- 165 mm (2.5" – 6.5") in diameter - Support for 1.5" NPS threaded Axis pendant kits	\$ 109.00	\$ 95.00	\$ 95.00
1	AXIS T94N01D Pendant Kit allows AXIS P37 Network Cameras to be mounted on poles, parapets and outer corners using 1.5" NPS threaded brackets	\$ 99.00	\$ 85.00	\$ 85.00
1	LAN Power 35W Single Port High Power POE+ Midspan Injector – Needed to provide power to the camera at the light pole	\$ 75.00	\$ 59.00	\$ 59.00
1	ExacqVision Professional IP Camera License – Includes 1 year of software updates (extended to 5 years when purchased with a X-series NVR)	\$ 230.00	\$ 189.00	\$ 189.00
	Subtotal			\$ 1,715.00



(262) 402-6100 🖀

info@digicorp-inc.com 🛤

DIGICORP-INC.COM ⊗

# DIGICORP

## ii. Ubiquiti Wireless Bridge Equipment

<u>Qty</u>	<u>ITEMS/DESCRIPTION</u>	<u>MSRP</u> (Unit)	<u>Sales Price</u> <u>(Unit)</u>	<u>Sales Price</u> (Extended)
1	<ul> <li>Ubiquiti airMAX Lite AP –Ultra Lite 5GHz wireless access point</li> <li>Integrated 5 GHz antenna, 10+ km link range</li> <li>450+ Mbps throughput</li> <li>50+ client capacity</li> <li>Dedicated spectral analysis radio</li> <li>24V, Power Supply - 0.5A gigabit PoE adapter (Included)</li> <li>Includes a versatile ball-join mount</li> <li>Limited 1 Year Manufacturer's Warranty included</li> </ul>	\$ 89.00	\$ 89.00	\$ 89.00
1	<ul> <li>Ubiquiti airMAX Litebeam 5AC Wireless Bridge Device – Includes the following:</li> <li>5 GHz, 15+ km link range</li> <li>450+ Mbps throughput</li> <li>24V power supply - 0.3A gigabit PoE adapter (Included)</li> <li>Limited 1 Year Manufacturer's Warranty included</li> </ul>	\$ 65.00	\$ 65.00	\$ 65.00
2	Ubiquiti Surge Protector/Suppressor	\$ 12.50	\$ 12.50	\$ 25.00
2	Ubiquiti Universal Antenna Arm Mount	\$ 10.00	\$ 10.00	\$ 20.00
	Subtotal	ા ગયે જે	n A nice Rice and Angel	\$ 199.00

## iii. Digicorp Labor – Camera System Installation

<u>Qty</u>	DESCRIPTION	Sales Price	<u>Sales Price</u>
		<u>(Unit)</u>	<u>(Extended</u>
1	Camera System Installation – Digicorp labor required for the following tasks:	\$ 1,220.00	\$ 1,220.00
	Mount a Ubiquiti wireless bridge device on the main firehouse building, and another		
	onto the light pole by the training tower		11
	• Configure 2 x Ubiquiti wireless bridge devices for a Point-to-Point connection from the		
	main firehouse building to the light pole by the training tower		a
	<ul> <li>Mount and focus 1 camera to the light pole by the training tower</li> </ul>		
	<ul> <li>Install and Configure camera onto ExacqVision NVR (NVR included in separate proposal)</li> </ul>	S. S. S.	in history
	Configure 1 camera onto system		A CLARKER
	Test and provide network documentation		
	*NOTE: We assume a suitable outdoor lift will be provided by the customer		
	We assume electricians will install 100VAC electrical power at the light pole with a suitable NEMA enclosure to house the proposed POE injectors needed for the camera and Ubiquiti device		
COLUMN D	Subtotal	- Marine -	\$ 1,220.00



(262) 402-6100 ☐ info@digicorp-inc.com ⊠ DIGICORP-INC.COM ⊗

PROJECT NOTES: Freight and taxes (if applicable) are not included.

We assume a suitable outdoor lift will be provided by the customer for camera installation. We assume electricians will install 100VAC electrical power at the light pole with a suitable NEMA enclosure to house the proposed POE injectors needed for the camera and Ubiquiti device. Pricing will expire on 10/31/24.

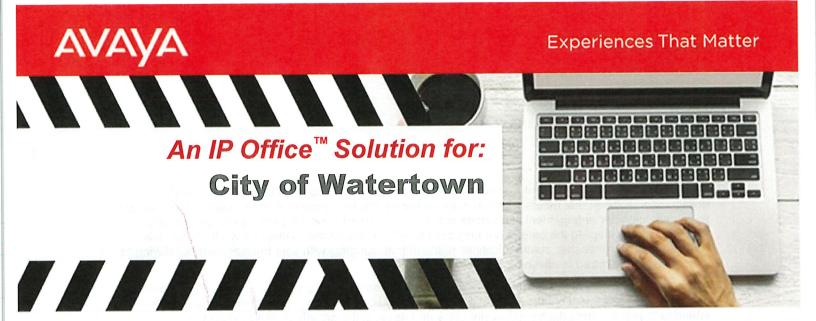
#### Agreement

This Statement of Work ("SOW") is made as of the last date of signature below ("Effective Date") between Digicorp, LLC, a Wisconsin limited liability company hereinafter referred to as "Digicorp," and the customer identified below ("Customer"), and is subject to the terms and conditions located at <a href="https://www.wintechnology.com/digicorpterms">https://www.wintechnology.com/digicorpterms</a>.

Digicorp will provide to Customer the Services identified herein, for the estimated prices set forth in the Pricing Breakdown above.

IN WITNESS WHEREOF, the Parties have caused this SOW to be effective as of the Effective Date, by execution of their authorized representatives below.

Signature	Signature	
0		
Print Name	Print Name	
	· · · · · · · · · · · · · · · · · · ·	
Title	Title	
Date	Data	
Date	Date	
235363		
A STATE OF THE STA		A STATE OF THE STA
Street, March and		and an and an
		and a state of the
and the second second second	and the state of the	and the second se



# **Presented by:**

Troy Thompson W134 N4981 Campbell Dr. Menomonee Falls, WI 53051 4142284498 tthompson@convergent-solutions.net 11/7/2023



11/7/2023

Mr. Andrew Day City of Watertown 106 Jones Street Watertown, Wisconsin 53094

Dear Andrew,

Thank you for giving Convergent Solutions the opportunity to recommend a communication and collaboration solution that meets your company demands. We recognize that all businesses have unique team and customer engagement challenges and we look forward to working through those challenges with you step by step. At the core of our proposed solution is the award winning Avaya IP Office. It is a simple, yet comprehensive, communications platform that can grow with your business without having to assemble a customized multivendor solution.

In the following pages of this proposal, please find a full description of a solution specifically designed to address the engagement challenges and priorities you outlined. The proposed engagement solution is intended to provide immediate productivity gains and assist in the growth of your business.

We look forward to discussing the details of the proposal in more detail and offering guidance as you work through difficult questions.

Sincerely,

Troy Thompson Convergent Solutions (414) 228-4498 <u>tthompson@convergent-solutions.net</u>



Table of Contents

# **Table of Contents**

Table of Contents	1
Avaya IP Office	
Avaya IP Office Essential Edition	4
Avaya IP Office Server Edition	5
Avaya IP Phone J159	7
Go Green with Avaya Products	9
Nhy Avaya?	

Avaya IP Office



# **Avaya IP Office**

Designed specifically for small to midsized business the Avaya IP Office<sup>™</sup> Platform delivers affordable and powerful unified communication choices that can change the way workforces collaborate. Voice, video, and mobility solutions drive engagement on multiple device types with the system maneuverability required to meet ever-changing demands with five editions from which to choose.

Features and Scalability	Basic Edition	Essential Edition	Preferred Edition	Server Edition	IP Office Select	
	Сара	city				
Single Site Users	100	384	384	2,000	3,000	
Total System Users	100	1,000	1,000	2,000	3,000	
Networked Sites		32	32	32	150	
Total Unified Communication Users			384	750	3,000	
Mob	ility, Access	, and Integrat	ion			
Mobility		Basic	Enhanced /	Enhanced	Enhanced	
Web Based User Portal			1	1	1	
Outlook (plugin) <del>and Salesforce.com</del>			1	1	1	
Avaya Communicator for Windows or iPad Avaya Workplace for iPad, iOS, Android		Basic	1	*	1	
Avaya Communicator for Lync			4	4	4	
Microsoft Skype for Business			*	*	4	
<del>Avaya Communicator for Web</del> Avaya Spaces Calling			*	4	~	
<del>Avaya Equinox™ client</del> Avaya Workplace client (desktop)			1	1	1	
	Confer	encing			1	
Ad Hoc Users	64	128	128	256	512	
Meet-Me Users			128	256	512	
Conference Scheduling			1	1	1	
Web Collaboration			1	1	1	
H175 Video Collaboration Station		4	4	*	4	
	Telep	hony				
System	Key	IP	IP	IP	IP	
Voicemail	Basic	Basic	Pro	Pro	Pro	
Call Recording			1	1	1	
Auto-Attendant Quantity	9	40	Unlimited	Unlimited	Unlimited	
Number of Receptionists		4	4	32	50	

## IP Office<sup>™</sup> Platform Edition Comparison

# Experiences That Matter

## An Avaya Solution for City of Watertown

Avaya IP Office

Features and Scalability	Basic Edition	Essential Edition	Preferred Edition	Server Edition	IP Office Select
Main Deployment Method	Appliance	Appliance	Appliance	Software	Software
LDAP or Microsoft Active Directory Integration			indone, area b notificienti en dut	1	1
Centralized Licensing		den - e è	e proi i Brol in	1	1
Contact Center Support			✓	1	1
Avaya Aura <sup>®</sup> Branch	പ്പം പ്രം വി	1	haada <b>√</b> ad thea	ne sitter.	48.28 - A

Den i datu konsuler dag, arrent una una konsuler en en unum une braina kuncha e unum une édale nome Preux al subsete i deste reference anno estre unum d'en e uno i dan unum fail en

Soliday a construction with the second states of th

이상 등은 한테일이 가격하게 가지 않아요. ^^^

26. 그 여기는 학생님께서는 소방하지만 같이 가지만 지갑 것이 있는 것이 같은 것이 같이 가지만 것이 하는 것이 있다. 것이 같이 가지 않는 것이 있다.

날카네, 아파는 다이는 것 못 하는 것이 같아. 이 가지 않는 것 같아. 이 가지 않는 것 같아.

Reader of State and Alexandre of the Alexandre and the set of the Part of the

아이는 너희 그는 아이는 아이는 아이는 것을 하는 것이 같아. 아이는 것을 알았는 것이 같아요. 이렇게 잘 못 하는 것이 같아. 아이는 것이 않아. 아이는 것이 같아. 아이는 것이 않아. 아이는 것이 같아. 아이는 것이 않아. 아이는 것이 같아. 아이는 것이 같아. 아이는 것이 같아. 아이는 것이 같아. 아이는 것이 않아. 아이는 것이 같아. 아이는 것이 않아. 것이 않아. 아이는 것이

신물관 제 수도 있는 것 같은 것 같은 것 같이 했다.

· 사회 방법 가슴, 김 씨는 유리 사람들이 가지 않는 가지가 이 것들까? Although Although Although Although Although Although Although Althou

anas idab in durant.

dia dia 1975 - 1946 -

alter Medicality She

3.09 JA . LO

arthe and sufficient arthout

4 as an der chaft bas i own.

그 영국 관광 고가 가지 않는 것이다.

Section 1.

- 191 - 191 - 1



Avaya IP Office Essential Edition

## **Avaya IP Office Essential Edition** Fundamental Business Communications

Avaya IP Office Essential Edition provides small businesses the communications tools needed to operate effectively and efficiently. These include the essentials needed to enhance communications with customers and to streamline operations, such as one number access, caller identification, dial by name, automated attendants, conferencing, and voicemail.

## **Features and Benefits**

The Avaya IP Office Essential Edition includes the following features and benefits:

- One Number Access
  - Provide a single office phone number to customers
  - Configure calls to ring simultaneously to any other phone (mobile, remote office, home), eliminating missed calls while keeping the secondary phone number hidden
- Collaboration via Integrated Conferencing Capabilities
  - 128-party conferencing capacity
  - Up to 64 parties on a single conference call
  - Increase communication with staff, vendors, suppliers, and customers while cutting costs
- Advanced Call Routing and Auto Attendants
  - Route calls to the appropriate person or group based on caller identification
  - Provide options to callers in queue via 40 easily customizable automated attendants
  - Customize caller greetings so key clients receive a personalized message
- Embedded Voicemail
  - No additional hardware required
  - Retrieve voicemail messages from any telephone or via the email inbox
  - Save, delete, forward, repeat, rewind, fast forward, and skip messages
- Additional Basic Call Features
  - Automatic Callback
  - Caller Identification
  - Hold Call Waiting
  - Message Waiting Indication
  - Multilingual Automation capabilities
  - Location Time Zone setting
  - Music on Hold
  - Park and Page
  - Toggle Calls
  - Transfer



Avaya IP Office Server Edition

## **Avaya IP Office Server Edition** Seamless Growth, Simple Management, and Reduced Total Cost of Ownership for Midsize Businesses

IP Office Server Edition is the ideal solution for midsize businesses, delivering intelligent unified communications, scalable growth, and seamless management. It enables businesses to quickly and easily add users to an existing office or connect a remote office. Server Edition delivers true centralized management and licensing for all users across all locations in one intuitive graphical user interface.

IP Office can be deployed as virtualized software, enabling deployment on a customer-supplied server running high availability VMware ESXi software. Other virtualized options include Microsoft Hyper V, Amazon Web Services or KVM Virtualized IP Office software is packaged in a single Open Virtual Appliance format that can be ignited as a primary, secondary, expansion, Avaya one-X® Portal, or applications server. IP Office software can run inside a virtual machine, on a dedicated server, an appliance, or a combination of these.

## **Features and Benefits Summary**

The Avaya IP Office Server Edition includes the following features and benefits:

- Expanded maximum scale/capacity
  - 2,000 users at a single site or across up to 32 locations
  - 150 voice messaging ports
  - 32 Music on Hold sources
  - 150 Recording channels
  - 300 Hunt Groups
  - 256 Size paging group
  - 256 Conference channels
  - 32 Receptionist Soft Consoles
- Centralized Management
  - Using one intuitive interface, the administrator can view all users on a single site or across up to 32 locations
  - System status allows the administrator to know of any potential issues that could affect system
    performance, including over utilized trunk lines, voice ports, and bandwidth utilization
  - Store and synchronize basic employee information with integration to industry standard enterprise directories such as LDAP and Microsoft Active Directory
- Centralized Licensing
  - Centralized licensing with WebLM
  - Easily assign user solutions to employees anywhere within the network
- Built-in Resiliency
  - In the event of a system outage within a multisite network where Server Edition is deployed across remote locations, all IP phones at the location of the outage will register to an alternate location



Avaya IP Office Server Edition

- Flexibility
  - Virtualized IP Office software adds flexibility, while enabling customers to match the deployment method to their infrastructure plans and objectives
  - Analog, digital, and IP phones are all supported, giving you the freedom to choose what works best for your business – operationally and financially
- Web Collaboration
  - User features include document sharing, white boarding, full participant controls, and a common user interface
- Location Time Zone
  - Apply local time zone to users telephone, voicemail box, and call log

Experiences That Matter

An Avaya Solution for City of Watertown

Avaya IP Phone J159

## Avaya IP Phone J159

The Avaya IP Phone J159 is a button-intensive IP Phone that addresses the need for everyday voice communications. It is available in Cobalt Black color and is targeted users who desire a small form factor packed with lots of feature buttons.

The Avaya IP Phone J159 uses J100 SIP software which supports the Avaya SIPAST software with Avaya Aura<sup>®</sup> which provides incremental features over third party offers which support 'SIPPING 19' standards-based SIP software. With J100 SIP software and IP Office 11.0.4.2 or later software, the Avaya IP Phone J159 provides incremental features over third party offers.

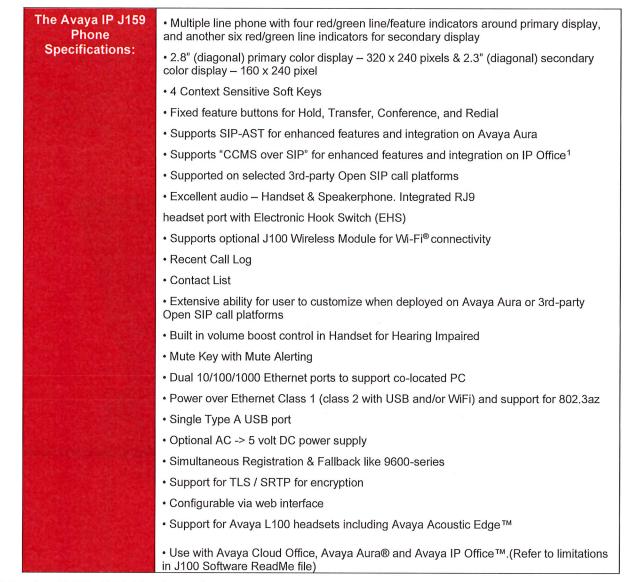


## **Benefits**

The Avaya IP Phone J159 is the ideal solution for end-users who need any of the following capability:

- Gigabit Ethernet
- Headset
- Integrated ability to support an additional 24 programmable buttons
- Fixed feature keys (Hold, Transfer, Conference, Redial)
- Any of the following features on Avaya Aura<sup>®</sup> when using SIP software (MLPP, Bridge Call Appearance, Call Pickup, Hunt Group Busy, Team Button, Enhanced Call Forward, Dial Intercom, Exclusion, LNCC, Priority Calls, Whisper Page)
- Full feature capability on Avaya IP Office™
- Color display Wireless Lan connectivity

Avaya IP Phone J159



1 Requires IP Office 11.0.4.2 or later software.

AVA

**Experiences That Matter** 

**AVAYA** Experiences That Matter An Avaya Solution for City of Watertown

Go Green with Avaya Products

## Go Green with Avaya Products

From employee programs to the manufacturing process, Avaya is dedicated to being environmentally responsible in every facet of our business. As such, Avaya actively designs products, applications, and solutions that help reduce our customers' carbon footprints. These include reducing equipment energy costs, decreasing office expense by supporting remote workers, and eliminating travel costs while retaining collaboration via enhanced audio and web conferencing.

Our commitment to high-quality intelligent voice communications at a low environmental cost applies to product portfolios being developed today, as well as those developed years ago, as evidenced in the following information:

- Avaya has an ISO 14001-based EH&S Management System for its facilities and services. In addition, Avaya has an ISO 14001 Environmental Management System certification for its Design for Environment (DfE) process.
- Avaya-designed and third party products that will be used in our solutions are evaluated to ensure that they comply with relevant legislation and regulations.
- Avaya designs its products using material that comply with the European Union's Restrictions of Hazardous Substance (RoHS) Directive and China RoHS Regulations.
- In compliance with the European Union's Registration, Evaluation, Authorization, and Restriction
  of Chemical (REACH) substances, Avaya discloses on Avaya.com the product and product
  packaging that contain the chemical substances on the European Chemical Agency's (ECHA's)
  candidate list of REACH Substances of Very High Concern (SVHC) in concentrations of 0.1% or
  more by weight.

# Avaya and its customers harness the power of our products to reduce the impact we have on the planet.

Avaya offers both a robust videoconferencing service plus increasingly energy efficient equipment, providing an advantage over our competitors because we give our customers solutions that increase productivity and save costs while minimizing their carbon footprint. For example, Avaya Scopia empowers businesses to host effective and collaborative team meetings remotely, reducing the need for business travel. After implementing Avaya Scopia, one of our customers was able to cut travel costs by 80% and GHG emissions by 27.25 metric tons of CO2e per year. For more information, refer to Avaya's Corporate Responsibility report found here - <a href="https://www.avaya.com/en/about-avaya/our-company/corporate-responsibility/">https://www.avaya.com/en/about-avaya/our-company/corporate-responsibility/</a>

## **Product Design**

Avaya has developed Design for Environment (DfE) Guidelines, Requirements, and Checklists to help designers maintain compliance with legal requirements and consider environmental concerns, from raw materials extraction to end-of-life handling. The DfE process is included in our ISO 14001 Environmental Management System certification, which ensures DfE objectives have been properly incorporated into the design process.

The core DfE aspects in our product design program include:

- Energy Efficiency
- Materials & Packaging
- Recyclability & Upgradability

**AVAYA** Experiences That Matter

An Avaya Solution for City of Watertown

Why Avaya?

## Why Avaya?

Avaya helps our customers bring people together with the right information at the right time in the right context, enabling business users to improve their efficiency and quickly solve critical business challenges. Because our solutions are based on open standards, our customers can decide what works best for them. Our objective is to give people the best collaboration experience, regardless of the devices, locations, or media they choose. As businesses move toward a more geographically dispersed, 24 x 7 workforce, they need tools to enable their users to quickly solve business challenges. With over 500,000 systems shipped worldwide, IP Office is the leader in unified communications and real-time collaboration for small and midsize businesses.

## **Industry Recognition**

Avaya is a recognized innovator leading business communications for the digital age. More than 130,000 businesses worldwide, including 90% of the FORTUNE 100®, use Avaya collaboration solutions for IP telephony, unified communications, and contact center. Avaya is consistently recognized as a global leader by industry and technology experts and has achieved worldwide leadership positions in the following segments:

- Ranks No. 1 in Worldwide SME Telephony<sup>1</sup>
- Ranks No. 1 in Worldwide Contact Center<sup>2</sup>
- Ranks No. 1 in Worldwide Interactive Voice Response<sup>3</sup>
- Ranks No. 1 in Worldwide Unified Messaging<sup>4</sup>
- Ranks No. 1 in Worldwide Audio Conferencing<sup>5</sup>
- Named a 2017 Unified Communications Product of the Year Award winner for Avaya IP Office Contact Center<sup>6</sup>
- Ranks among the global Top 100 Software Companies for taking advantage of changing technology and offering cutting-edge, software revenue.<sup>7</sup>
- Recipient of the CUSTOMER Contact Center Technology Award for Avaya Workforce Optimization Select<sup>8</sup>
- Named a 2017 Gold Edison Award Winner for innovation in the category of Cyber Security<sup>9</sup>

4 IHS Technology, Enterprise Unified Comm and Voice Equipment, Quarterly Market Tracker, 4Q16, March 2017

6 TMC, April 2017

<sup>1</sup> Dell'Oro Group, Enterprise Telephony Report, 4Q16, March, 2017

<sup>2</sup> Worldwide Contact Centre Market and Forecasts, August, 2016

<sup>3</sup> Canalys, Worldwide Contact Centre Market and Forecasts, August, 2016

<sup>5</sup> MZA, Ltd., The Unified Communications Applications Market Competitive Environment, June 2016

<sup>7</sup> PricewaterhouseCoopers (PwC), PwC Global 100 Software Leaders – Digital intelligence conquers the world below and the cloud above, June 2016

<sup>8</sup> TMC and CUSTOMER magazine, Oct, 2016

<sup>9</sup> Edison Awards, a program conducted by Edison Universe, April 2017

# **AVAYA** Experiences That Matter

### An Avaya Solution for City of Watertown

The Magic Quadrants are copyrighted 2013 by Gartner, LLC and are reused with permission. The Magic Quadrant is a graphical representation of a marketplace at and for a specific time period. It depicts Gartner's analysis of how certain vendor's measure against criteria for that marketplace, as defined by Gartner. Gartner does not endorse any vendor, product or service depicted in the Magic Quadrant, and does not advise technology users to select only those vendors placed in the "Leaders" quadrant. The Magic Quadrant is intended solely as a research tool and is not meant to be a specific guide to action. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

Avaya and the Avaya Logo are trademarks of Avaya LLC and are registered in the United States and other countries. All trademarks identified by the ®, TM, or SM are registered marks, trademarks, and service marks, respectively, of Avaya LLC All other trademarks are the property of their respective owners.

Contract #: 4265110723

Date: Tuesday, November 7, 2023 Budget Quote - Requires Revision Before Signing

# **CONVERGENT SOLUTIONS**

SCHEDULE "A" Equipment Agreement

	Agreement for: City of Watertown 106 Jones Street Watertown, WI 53094 (920) 262-4000	Performed at: City of Watertov 621 Bernard Stre Watertown, WI	eet			
<u>Quantity</u>	Description:	Part Number	List	Per Unit	Discount	Cost
1	Avaya Communications Solution	185446	\$		0%	\$ 
1	IP Office Model	182448	\$	-	0%	\$ -
1	IP500 V2 Control Unit 2A	700514867	\$	683.00	40%	\$ 409.80
1	IP Office Rack Mount Kit	700429202	\$	63.00	40%	\$ 37.80
1	IPO MC VCM 32 V2 Product	700504031	\$	184.00	35%	\$ 119.60
1	IP500 V2 System SD Card	700479710	\$	53.00	40%	\$ 31.80
1	IP Office R11 Server Edition Lisc	396449	\$	3,195.00	40%	\$ 1,917.00
8	IP Office R10 Sip Trunk 1 PLDS	383085	\$	77.00	40%	\$ 369.60
9	IP Office R10 Avaya Endpoint License	383110	\$	75.00	40%	\$ 405.00
1	Power Lead	700289770	\$	19.00	40%	\$ 11.40
9	J159 IP Phone, No Power Supply	700512394	\$	415.00	38%	\$ 2,315.70
1	Comprehensive Support Model	185579	\$	-	0%	\$ _
1	IPO C/D 3 year RTS 8X5 NBD 500V2- Support	271659	\$	1,964.16	0%	\$ 1,964.16
1	Installation Package, Shipping, Warranty, Training		\$	9,804.00	35%	\$ 6,372.60

> Includes (3) Year Chassis Parts and Software, no Terminals Includes (1) Year Ship to Site Handset Warranty Estimate assumes all current cable is useable All customer data equipment configuration not included in this quote

All work to be completed during normal business hours

Solution Total

\$ 13,954.46

Name:	Convergent Solutions	Name:	City of Watertown			
Title:		Title:				
Signature:		Signature:				
Date:		Date:				
This agreement, if accepted, is to be governed by the "Terms and Conditions."						

## SCHEDULE "A" Purchase Agreement

TERMS AND CONDITIONS For Schedule "A" Equipment Agreement

1. Payment Terms

50% payment is due at signing40% payment is due when the installation process begins10% payment is due upon cutover of system

Purchase price fully installed (exclusive of any conduit). Labor warranty for 1-year and parts warranty as defined on the Schedule A Equipment Agreement, provided all service work is performed solely by Convergent Solutions, Inc.

#### 2. Creation of a Security Interest, Acceleration

Until such time as Buyer has paid the agreed purchase price, Seller hereby retains and Buyer hereby grants a purchase money security interest in the described equipment. In connection therewith, Buyer agrees to execute all instruments deemed necessary by Seller under applicable law to establish, maintain and continue perfected Seller's purchase money security interest in the equipment of others is protecting its rights in and to said equipment.

Upon Buyer's failure to perform any of its obligations under the Agreement, Convergent Solutions, Inc., at its option, and without notice to Buyer, may thereupon declare the entire amount of the unpaid balance immediately due and payable.

#### 3. Limited Warranty

Seller hereby warrants that the installation of said equipment shall be performed in a workmanlike manner. Buyer's remedy under these warranties shall be the repair and replacement by Seller at Seller's expense of non-conforming equipment of parts thereof, unless, however, the equipment or any part thereof is damaged or rendered unserviceable as a result of Buyer's negligence or a connection to direct current, in which case this warranty and any duties and obligations of Seller arising there under shall terminate immediately. In no event shall Seller be liable for consequential damages or commercial losses arising out of a breach of any warranty or any other provision contained herein.

### 4. Waiver, Amendment, Notice Termination

Any waiver or rights hereunder or any amendment or requirement of notice or termination hereof shall not be effective unless made in writing and signed by the party against whom such waiver, amendment, notice or termination is sought to be enforced.

#### 5. Risk of Loss

When the equipment or any portion thereof is delivered to the installation site, Buyer shall bear the risk of loss, and the risk of loss shall remain with the Buyer regardless of any breach by Seller of any provisions hereof.

#### 6. Tax Obligation

Buyer will pay promptly when due all taxes, assessments and other charges levied or assessed by any governments or government al agency upon the sale of the described equipment

#### 7. Assignment

Buyer may not delegate its performance or assign its rights under this Agreement except upon the express written consent of Seller.

#### 8. Benefit

This Agreement shall be binding upon, shall inure to the benefit of, and shall be enforceable, by each of the parties hereto, its successors and assigns, except as limited by Paragraph 6 above.

#### 9. Construction

This writing constitutes the final expression of the agreement between the parties and is intended as a complete statement of the terms of the agreement. No course of prior dealing between the parties and no usage trade shall be relevant to supplement or explain a ny term used in this Agreement. Whenever a term defined by the Uniform Commercial Code (the "Code") is used in this Agreement, the definition contained in the Code is to control unless otherwise stated herein to the contrary. This Agreement has been finally accepted in the State of Wisconsin and shall be governed by the laws of the State of Wisconsin including the Code and its amendments as effective in the State of Wisconsin.

#### 10. Attorney's Fees

Buyer shall pay to Seller all attorney's fees, court costs, and all other expenses, which may be incurred by Seller in enforcing, or attempting to enforce collection of agreed costs of the equipment and the installation thereof, or against any guarantors hereof, or with r espect to any matters connected with the subject matter hereof.