



# Watertown City Council Regular Meeting

Mayor Michael Walters  
Deborah Everson  
Jim Kasheimer  
Fred McGuire  
Kay Thul

1. Call To Order And Roll Call

2. Adopt Agenda

3. Consent Agenda Discussion And Approval

3.A. December 9, 2025 City Council Work Session Minutes

Documents:

[DECEMBER 9, 2025 CITY COUNCIL WORK SESSION MINUTES.PDF](#)

3.B. December 9, 2025 City Council Regular Meeting Minutes

Documents:

[DECEMBER 9, 2025 CITY COUNCIL REGULAR MEETING MINUTES.PDF](#)

3.C. RFA - Watertown-Mayer Education Foundation Charitable Gambling Request

Documents:

[RFA - WATERTOWN-MAYER EDUCATION FOUNDATION CHARITABLE GAMBLING REQUEST.PDF](#)

3.D. RFA - Public Services Superintendent - Interim Appointment

Documents:

[RFA - PUBLIC SERVICES SUPERINTENDENT - INTERIM APPOINTMENT.PDF](#)

3.E. RFA - Promotion Of Robert Hoen To Public Services Operator II

Documents:

[RFA - PROMOTION OF ROBERT HOEN TO PUBLIC SERVICES OPERATOR II.PDF](#)

3.F. RFA - 2026 Consultant Fees

Documents:

[RFA - 2026 CONSULTANT FEES.PDF](#)

4. Open Forum

5. New/Old Business

5.A. Informational Presentation - Allison Streich - Carver County CDA Executive Director

Documents:

[INFORMATIONAL PRESENTATION - ALLISON STREICH - CARVER COUNTY CDA EXECUTIVE DIRECTOR.PDF](#)

5.B. RFA - Engine 11 Replacement

Documents:

[RFA - ENGINE 11 REPLACEMENT.PDF](#)

5.C. RFA - State Street Storm Sewer Plans And Specifications

Documents:

[RFA - STATE STREET STORM SEWER PLANS AND SPECIFICATIONS.PDF](#)

5.D. RFA - 2026 Facility Study Authorization

Documents:

[RFA - 2026 FACILITY STUDY AUTHORIZATION.PDF](#)

5.E. RFA - Wastewater Treatment Facility Clarifier Improvements Authorization For Preliminary Design

Documents:

[RFA - WASTEWATER TREATMENT FACILITY CLARIFIER IMPROVEMENTS AUTHORIZATION FOR PRELIMINARY DESIGN.PDF](#)

5.F. RFA - DNR Local Trail Connection Grant Funding Opportunity

Documents:

[RFA - DNR LOCAL TRAIL CONNECTION GRANT FUNDING OPPORTUNITY.PDF](#)

5.G. RFA - 2026 City Of Watertown Organizational Statement (Resolution 2026-01)

Documents:

[RFA - 2026 CITY OF WATERTOWN ORGANIZATIONAL STATEMENT \(RESOLUTION 2026-01\).PDF](#)

5.H. RFA - Watertown City Council Statement Regarding State Government Fraud  
(Resolution 2026-02)

Documents:

[RFA - WATERTOWN CITY COUNCIL STATEMENT REGARDING STATE  
GOVERNMENT FRAUD \(RESOLUTION 2026-02\).PDF](#)

5.I. RFA - 2026 Fee Schedule (Ordinance 451)

Documents:

[RFA - 2026 FEE SCHEDULE \(ORDINANCE 451\).PDF](#)

6. Other Reports

7. Claims

7.A. January 13, 2026 Claims With December, 2025 Pre-Paid Claims

Documents:

[JANUARY 13, 2026 CLAIMS WITH DECEMBER, 2025 PRE-PAID  
CLAIMS.PDF](#)

8. Adjournment

Members of the City Council and staff may convene immediately following the adjournment of the regular meeting at the Luce Line Lodge in a purely social event. Members of the public are welcome to attend. All minutes are available on the website or can be requested by contacting City Hall.

**309 Lewis Avenue South; P.O. Box 279, Watertown, MN 55388**



Watertown City Council  
Work Session

Mayor Michael Walters  
Deborah Everson  
Jim Kasheimer  
Fred McGuire  
Kay Thul

12/9/2025 - Minutes

1. Call To Order And Roll Call

Mayor Mike Walters called the Watertown City Council Work Session to Order at 5:30 p.m. on December 9, 2025, in the Council Chambers at City Hall.

**Councilmembers present:** Mike Walters, Jim Kasheimer, Kay Thul, Fred McGuire and Deborah Everson

**City staff present:** City Administrator Dan Tolsma and Administrative Services Director Michael Sommerfeld

2. New Business

Dan Tolsma discussed follow-up conversation on City Center Park/Veterans Memorial that was brought up at last month's meeting.

2.1. City Council 2026 Work Plan Discussion

Tolsma presented items to be discussed going into 2026 to prioritize for the year.

3. Adjournment

Mayor Walters adjourned the work session at 6:25 p.m.

**309 Lewis Avenue South; P.O. Box 279, Watertown, MN 55388**

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Michael Walters, Mayor

ATTEST: \_\_\_\_\_

Dan Tolsma, City Administrator

DRAFT



Watertown City Council  
Regular Meeting

Mayor Michael Walters  
Deborah Everson  
Jim Kasheimer  
Fred McGuire  
Kay Thul

12/9/2025 - Minutes

1. Call To Order And Roll Call

Pursuant to due call and notice thereof, the regular meeting of the Watertown City Council was called to order in the Council Chambers of City Hall at 6:33 p.m. on Tuesday, December 9, 2025, by Mayor Mike Walters.

**Councilmembers present:** Mike Walters, Jim Kasheimer, Kay Thul, Fred McGuire and Deborah Everson

**City staff present:** City Administrator Dan Tolsma and Public Services Director Michael Sommerfeld

**Others present:** Watertown Chamber President, Kyle Jarvis

2. Adopt Agenda

City Administrator Dan Tolsma asked to remove item 5C. discussion with the CDA representative, due to inclement weather.

**COUNCILMEMBER JIM KASHEIMER MOVED TO APPROVE THE AMENDED AGENDA AS PRESENTED.**

**COUNCILMEMBER DEBORAH EVERSON SECONDED. MOTION CARRIED 5-0**

3. Consent Agenda Discussion And Approval

**COUNCILMEMBER KAY THUL MOVED TO APPROVE THE CONSENT AGENDA AS PRESENTED.**

**COUNCILMEMBER FRED MCGUIRE SECONDED. MOTION CARRIED 5-0**

3.A. 3.A. Approve November 25, 2025 City Council Work Session Minutes

- 3.B. 3.B. Approve November 25, 2025 City Council Regular Meeting Minutes
- 3.C. 3.C. Approve Liquid Waste Haulers Licenses (Resolution 2025-57)
- 3.D. 3.D. Approve Downtown Parking Lot Mill And Overlay Project Pay App No. 2
- 3.E. 3.E. Approve 2025 End Of Year Payments

4. Open Forum

Kyle Jarvis, President of the Watertown Area Chamber of Commerce gave an update on Watertown Christmas that was held on Saturday. He thanked public works staff, the Watertown Fire Department, Chief Hanson and all the volunteers.

5. New/Old Business

- 5.A. 5.A. RFA - 2026 Truth In Taxation Public Hearing, Budget, And Levy (Resolution 2025-58, 2025-59, 2025-60)

Administrative Services Director Michael Sommerfeld presented a summary on the Truth in Taxation.

**COUNCILMEMBER WALTERS MOVED TO OPEN THE PUBLIC HEARING AT 6:55PM.**

**COUNCILMEMBER THUL SECONDED. MOTION CARRIED 5-0**

Kyle Jarvis of 1175 Landings Lane, spoke wanting to say this seems to be very thoughtful. You have done your due diligence. I just want to thank you for all the hard work to the city staff for making this happen, and I am very pleasantly surprised to see my tax statement in the mail.

No further residents were in attendance.

**COUNCILMEMBER WALTERS CLOSED THE PUBLIC HEARING AT 6:56PM.**

**COUNCILMEMBER KASHEIMER SECONDED. MOTION CARRIED 5-0**

**COUNCILMEMBER THUL MOVED TO APPROVE RESOLUTION 2025-58 APPROVING THE 2026 CIP.**

**COUNCILMEMBER EVERSON SECONDED. MOTION CARRIED 5-0**

**COUNCILMEMBER EVERSON MOVED TO APPROVE RESOLUTION 2025-59 APPROVING THE 2026 CITY BUDGET.**

**COUNCILMEMBER KASHEIMER SECONDED. MOTION CARRIED 5-0**

**COUNCILMEMBER THUL MOVED TO APPROVE RESOLUTION 2025-60 APPROVING THE 2026 FINAL LEVIES.**

**COUNCILMEMBER MCGUIRE SECONDED. MOTION CARRIED 5-0**

- 5.B. 5.B. RFA - Recognition Of Denny Butcher (Resolution 2025-61)

Honoring the life and service of Dennis Denny Eugene Butcher and proclaiming December 19, 2025, to be Denny Butcher Day in the City of Watertown.

Whereas, the Mayor and City Council of the City of Watertown, Minnesota wish to acknowledge and express their appreciation of longtime resident Dennis Denny Eugene Butcher on this occasion of his retirement.

Whereas, Mr. Butcher has been a resident of Watertown since 1972 and has served with distinction as Town Barber for 52 plus years.

Whereas, Mr. Butcher During this time in Watertown, Mr. Butcher served the Watertown community as a volunteer firefighter from 1973 to 75, as an EMT for the Watertown Hospital from 1974 to 79.

Whereas, Mr. Butcher also brought joy to countless residents through music, as a member of two polka bands, and through his 25 -year career as Town Santa, And whereas Mr. Butcher is known by the community for his kindness, sense of humor, willingness to serve and his love of Watertown.

Whereas, Mr. Butcher's legacy will serve as an inspiration to all who live and work in the city of Watertown for generations to come.

Now, therefore be it resolved that the city council of the City of Watertown, Minnesota hereby approves Resolution 2025-61.

**COUNCILMEMBER EVERSON MOVED TO APPROVE RESOLUTION 2025-61 IN RECOGNITION OF DENNY BUTCHER.**

**COUNCILMEMBER THUL SECONDED. MOTION CARRIED 5-0**

5.C. 5.C. Carver CDA Update From Allison Streich

Removed

5.D. 5.D. RFA - 2026 Carver County Sheriff Policing Contract

Dan Tolsma presented the proposed contract for 2026.

**COUNCILMEMBER EVERSON MOVED TO APPROVE THE ATTACHED 2026 POLICE CONTRACT BETWEEN THE CITY OF WATERTOWN AND THE CARVER COUNTY SHERIFF'S OFFICE.**

**COUNCILMEMBER THUL SECONDED. MOTION CARRIED 5-0**

5.E. 5.E. RFA - 2026 Carver County Attorney Prosecution Contract

**COUNCILMEMBER WALTERS MOVED TO ATHORIZE THE 2026 PROSECUTION CONTRACT WITH THE CARVER COUNTYATTORNEY'S OFFICE.**

**COUNCILMEMBER EVERSON SECONDED. MOTION CARRIED 5-0**

5.F. 5.F. RFA - Crow River Liquors Temporary Short-Term Signage Request

**COUNCILMEMBER WALTERS MOVED TO APPROVE THE TEMPORARY SIGN PERMIT REQUESTS WITH THE FOLLOWING CONDITIONS: THE APPLICANT IS APPROVED TO DISPLY ONE 10 MIINUTE PARKING SIGN FOR THE 2ND AND 3RD PARKING STALLS IN FROM THE ROUNDABOUT FORTHE DATES OF AS REQUESTED IN THE PERMIT APPLICATIONS. THE PROVIDED SIGNAGE WILL BE DESIGNED, FABRICATED, AND OWNED BY THE CITY OF**

**WATERTOWN. THE SIGNAGE MUST BE REMOVED FROM THE SIDEWALK DURING NON-BUSINESS HOURS BY THE PROPERTY OWNER.**

**COUNCILMEMBER THUL SECONDED. MOTION CARRIED 5-0**

5.G. 5.G. RFA - City Hall Closure For Staff Holiday Event December 18

**COUNCILMEMBER WALTERS MOVED TO APPROVE THE CLOSURE OF CITY HALL AT 12:00PM ON THURSDAY, DECEMBER 18TH.**

**COUNCILMEMBER EVERSON SECONDED. MOTION CARRIED 5-0**

5.H. 5.H. RFA - Establish January 13, 2026 As First City Council Work Session And Regular Meeting In 2026

**COUNCILMEMBER EVERSON MOVED TO ESTABLISH THAT THE FIRST CITY COUNCIL WORK SESSION FOR 2026, WILL BE ON JANUARY 13, 2026 AT 5:30PM AND THAT THE FIRST CITY COUNCIL REGULAR MEETING FOR 2026 WILL BE ON JANUARY 13, 2025 AT 6:30PM.**

**COUNCILMEMBER MCGUIRE SECONDED. MOTION CARRIED 5-0**

6. Other Reports

City Administrator Tolsma reported they will be advertising for the public works superintendent next week with Matt VanLith's last day is December 18.

Council discussed closing the compost site over the winter and until a policy review and cameras are in place.

Councilmember McGuire reported on the Senior Dinner with about 138 in attendance. Kay added that everyone was happy to come and it was a very good event.

Councilmember Everson reported on the Watertown Festival of Lights that goes until this Saturday, Dec. 13th. Everson also mentioned that talking with businesses in town, they had a very successful Saturday and grateful for all the events that were happening.

Councilmember Walters wanted to recognize a few people and give thanks who are very important. He thanked the council who cares immensely about the community, work diligently advocating for the citizens. He thanked city staff, a steady group that does a great job. I appreciate all the volunteers and organizations and the commission who work really hard all year long to just make Watertown great. They're the backbone of our community, so please support them. I would also express a heartfelt gratitude to our police officers, firefighters, and first responders for their dedication to keeping our community safe. And finally, I'd like to thank the people of Watertown that make this city remarkable.

7. Claims

**COUNCILMEMBER THUL MOVED TO APPROVE THE CLAIMS ROSTER AS PRESENTED.**

**COUNCILMEMBER KASHEIMER SECONDED. MOTION CARRIED 5-0**

7.A. 7.A. December 9, 2025 Claims

8. Adjournment

**COUNCILMEMBER WALTERS MOVED TO ADJOURN AT 7:34PM.**

COUNCILMEMBER EVERSON SECONDED. MOTION CARRIED 5-0

309 Lewis Avenue South; P.O. Box 279, Watertown, MN 55388

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Michael Walters, Mayor

ATTEST: \_\_\_\_\_

Dan Tolsma, City Administrator

DRAFT

**Watertown City Council**

January 13, 2026

<b>Agenda Item:</b>	<b>Charitable Gambling Event Approval</b>
<b>Request for Action:</b>	<b>Recommendation to Approve Charitable Bingo Event for Watertown-Mayer Education Foundation</b>
<b>Department:</b>	<b>Michael Sommerfeld, Administrative Services Director</b>

**Background:**

The City has received an LG240B Application to Conduct Excluded Bingo from the Watertown-Mayer Education Foundation. Nonprofit organizations are able to hold charitable gambling events (e.g. Bingo, raffles, silent auctions, other fund-raising events) with the authorization of the local government unit. The Watertown-Mayer Education Foundation meets the necessary criteria for holding such an event.

They are requesting authorization from the City to submit their permit application to the State for approval. The City has provided this authorization in the past to various community organizations including the Watertown-Mayer Education Foundation. The Foundation is planning to hold Bingo at Luce Line Lodge on February 22, 2026 and July 26, 2026.

Staff recommends that the City Council approve this charitable gambling, bingo event request.

**Watertown City Council**

January 13, 2026

**Agenda Item: Interim Public Services Superintendent****Request for Action: Motion to Appoint Mike Loehrs as Interim Public Services Superintendent****Department: Michael Sommerfeld, Administrative Services Director****Background:**

The City received the voluntary resignation of Matt Van Lith, Public Services Superintendent, effective December 18, 2025. With Matt's resignation, there is a leadership vacancy in the Public Services department.

The City has posted to fill the superintendent vacancy. The current Public Services Lead, Mike Loehrs, has agreed to serve as the Interim Public Services Superintendent until the position is filled. Mike brings 17 years of service to the City of Watertown, has a positive work history, and is well respected among his peers and city staff. Mr. Loehrs has the requisite certifications, knowledge, skills, and was appointed as the interim under similar circumstances when the position was vacated in late 2024.

Mike Loehrs shall be placed at Step 2, Grade 15 of the approved pay scale, effective December 18th, 2025. Mr. Loehrs will remain at the interim rate for one full pay period after a permanent Public Services Superintendent is appointed. This will better facilitate the transition and on-boarding.

**Budget Impact:****Recommendation:**

Staff is seeking approval to promote Mike Loehrs to Interim Public Services Superintendent.

**Motion Type:**

Simple majority vote of members present.

**Requested Action/Motion:**

"I move to accept to promotion of Mike Loehrs as Interim Public Services Superintendent."

**Attachments:**

**Watertown City Council**

January 13, 2026

**Agenda Item:** Promotion of Robert Hoen**Request for Action:** Approve Promotion of Robert Hoen to Public Services Operator II**Employee/Dept.:** Michael Sommerfeld, Administrative Services Director**Background:**

Robert Hoen is eligible for promotion to Public Services Operator II, based on his time in grade and a satisfactory review of his performance upon his work anniversary date of January 1<sup>st</sup>.

It is recommended by the Personnel Committee that Robert Hoen be moved to Step 1 of Grade 11 of the approved pay scale. Step movements have been approved and accounted for in the proposed 2026 budget.

**Budget Impact:**

N/A

**Funding Source:**

General fund

**Recommendation:**

Staff recommends approving the promotion of Robert Hoen to Public Services Operator II.

**Motion Type:**

Simple majority vote of members present.

**Requested Action/Motion:**

*"I move to approve promotion of Robert Hoen to Public Services Operator II."*

**Attachments:**

None

**Watertown City Council**

January 13, 2026

**Agenda Item:**           **Consultant Fees****Request for Action:**   **Approve 2026 Consultant Fees and Service Proposals****Employee/Dept.:**      **Dan Tolsma, Administration****Background:**

The City of Watertown relies heavily on consultants to provide professional services, most notably in the areas of legal, engineering, planning, and auditing. Below are the proposed fees from the City's consultants for the 2026 calendar year.

TerraMark (Planning):	Professional services provided to the city for general work items will be billed at the hourly rate of \$105.00/hour. Charges will be made based on a minimum increment of 1/4 hour. Professional services provided to the city for pass thru work items will be billed at the hourly rate of \$120.00/hour. Charges will be made based on a minimum increment of 1/4 hour.
Bolton & Menk (Engineering):	See attached.
Abdo Solutions (Audit):	See attached.
Campbell Knutson (Legal):	No changes.

**Recommendation:**

Staff recommend approving the consultant rates for 2026.

**Motion Type:**

Simple majority vote of members present.

**Requested Action/Motion:**

*"I move to approve consultant fees as proposed for 2026."*

**Attachments:**

Bolton & Menk 2026 Fee Schedule

Abdo Solutions 2026 Fee Schedule & Audit Proposal



Real People. Real Solutions.

2638 Shadow Lane  
Suite 200  
Chaska, MN 55318-1172

Ph: (952) 448-8838  
Fax: (952) 448-8805  
Bolton-Menk.com

December 3, 2025

City of Watertown  
Attn: Mr. Dan Tolsma, City Administrator  
309 Lewis Avenue S  
Watertown, MN 55388

RE: 2026 Professional Engineering Services

Dear Mr. Tolsma:

We are pleased to once again offer professional engineering services to the City of Watertown for 2026 in accordance with the attached Fee Schedule. We look back with great satisfaction on the important projects we have been able to complete with you and your staff at the direction of the City Council. I have every confidence that our long-term knowledge of your community and understanding of your needs coupled with cooperation and hard work will result in the continued advancement of the City's vision for its future.

It is also my pleasure to inform you we will continue offering the "municipal discount" for key staff members serving your City. This discount applies to day-to-day general engineering items and is intended to minimize the engineering impact on the General Fund budget. For your City, the municipal discount includes the following:

- Philip Schrupp - First 20 hours/month at \$75/hour
- Zac Remer - Unlimited hours at \$55/hour
- Various Clerical Staff - First 10 hours/month at No Charge

Further, we have not changed our fee for City Council meeting attendance or Planning Commission meeting attendance. We have also not changed our design fees for City projects. All of these fees have remained unchanged for well over 10-years. The fee structure items identified above reflect our continued commitment to provide you high quality and full service municipal engineering services with increasing value and efficiency.

Please review the attached information and contact me with any questions you may have. **We are committed to providing you with the superior service you expect and require as together we work to build a safe, sustainable and beautiful community.**

Respectfully Submitted,  
**Bolton & Menk, Inc.**

**Kreg J. Schmidt, P.E.**  
Vice President

# 2026 FEE SCHEDULE

The following fee schedule is based upon competent, responsible professional services and is the minimum, below which adequate professional standards cannot be maintained. It is, therefore, to the advantage of both the professional and the client that fees be commensurate with the service rendered. Charges are based on hours spent at hourly rates in effect for the individuals performing the work. The hourly rates for principals and members of the staff vary according to skill and experience. The current specific billing rate for any individual can be provided upon request.

The fee schedule shall apply for the period through December 31, 2026. These rates may be adjusted annually thereafter to account for changed labor costs, inflation, or changed overhead conditions.

These rates include labor, general business, and other normal and customary expenses associated with operating a professional business. For projects with typical expenses and unless otherwise agreed, the above rates include vehicle and personal expenses, mileage, telephone, survey stakes, and routine expendable supplies; no separate charges will be made for these activities and materials. Expenses beyond typical project expenses, non-routine expenses, and expenses beyond the agreed scope of services, such as out of town travel expenses, long travel distances, large quantities of prints, extra report copies, outsourced graphics and photographic reproductions, document recording fees, outside professional and technical assistance, and other items of this general nature will be invoiced separately. Rates and charges do not include sales tax, if applicable.

EMPLOYEE CLASSIFICATION	2026 HOURLY BILLING RATE
Administrative	\$70-175
Technician	\$98-186
Survey Technician	\$112-202
Senior Technician	\$138-230
Construction Manager	\$162-228
Design Engineer	\$135-202
Graduate Engineer	\$125-190
Graduate Surveyor	\$145-202
Landscape Designer	\$128-178
Landscape Architect	\$156-185
Licensed Project Surveyor	\$190-237
Planner	\$120-181
Project Engineer	\$148-220
Project Manager	\$140-261
Senior Landscape Architect	\$154-269
Senior Planner	\$172-240
Senior Project Engineer	\$170-220
Senior Project Manager	\$190-290
Architect	\$160-276
Specialist*	\$100-216
Practice Expert**	\$125-349
Principal**	\$180-320
Senior Principal**	\$232-344
<b>Municipal Project Design Fee - Final Plans and Specifications (Well Defined Scope)</b>	6%
<b>Municipal Project Design Fee - Final Plans and Specifications (State Aid &amp; Federally Funded Projects)</b>	8%
<b>City Council/Planning Commission Meeting Attendance</b>	\$60.00/Meeting
GPS/Robotic Survey Equipment <sup>1</sup>	NO CHARGE
CAD/Computer Usage	NO CHARGE
Routine Office Supplies	NO CHARGE
Routine Photo Copying/Reproduction	NO CHARGE
Field Supplies/Survey Stakes & Equipment	NO CHARGE
Mileage	NO CHARGE

<sup>1</sup> No separate charges will be made for GPS or robotic total stations on survey assignments; the cost of this equipment is included in the rates for survey technicians.

\*Specialized role not classified above otherwise, incl. project communication, funding, etc.

\*\*Highly specialized and industry expertise unique to the market or area of discipline.



SERVICE PROPOSAL FOR

# City of Watertown

309 Lewis Ave S., Watertown, Minnesota 55388

December 05, 2025

[abdosolutions.com](http://abdosolutions.com) | Mankato, MN - Edina, MN - Scottsdale, AZ

**Abdo**  
Financial  
Solutions

Proposed by

**Victoria Holthaus, CPA, MPA**

Partner | Abdo

[victoria.holthaus@abdofs.com](mailto:victoria.holthaus@abdofs.com)

P 952.715.3069



Dan Tolsma, City Administrator  
City of Watertown  
309 Lewis Ave S.  
Watertown, Minnesota 55388

December 05, 2025

Dear Dan,

Thank you for the opportunity to submit this proposal to the City of Watertown, Minnesota (the City), for accounting services. Based on our past experience with cities of comparable size and complexity, we believe our structured contract with defined outcomes offered through Abdo Financial Solutions (Abdo FS), will provide the City with excellent financial services.

We are confident our solution will offer the City advanced insights, provide public finance guidance, and serve as an experienced partner to assist the City in accounting services. Our proposal is based on the needs of the City as laid out in the request for proposal and the experiences we have had working with other cities. This proposal outlines the scope of services we believe will address the needs of the City.

The term of this contract shall be from December 1, 2025 through December 31, 2027.

An Abdo FS representative will be in the City offices as necessary to perform responsibilities as noted on the Scope of Services page. Services will also be performed remotely as necessary.

The investment required for our services is indicated on the value page, and this quote remains valid for thirty (30) days. Please note that Abdo FS is independent of the City as defined by auditing standards generally accepted in the United States of America.

Abdo FS acknowledges the City has retained an independent registered municipal advisor (IRMA) to assist and advise the City in evaluating information relating to the issuance of municipal securities and/or municipal financial products. Abdo FS acknowledges the City will rely on advice from their IRMA. Abdo FS will have no recourse against the City or its IRMA, regarding action or inaction relating to evaluating, commenting on, or responding to financial projects or information received under this Agreement. Abdo FS acknowledges it is not the registered independent municipal advisor retained by the Municipal Entity Client.

Abdo FS would like to thank the City for the opportunity to propose on these services. We look forward to exceeding your expectations and continuing our long-term, mutually beneficial relationship.

Sincerely,

**Abdo Financial Solutions**

**Victoria Holthaus, CPA, MPA**

Partner | Abdo



# The current state

## WHAT WE HEARD

We understand the challenges you face as an organization with ever-changing regulations, financial standards, staffing changes, and council vision. Through our conversations, we understand these challenges to include:

- **Vacant Position:** Finance personnel have been helping to absorb the job responsibilities of vacant administrative positions. As a result, work in the finance department has become backed up.
- **Backlog of Bank Reconciliations:** Bank reconciliations are a crucial component to be completed prior to the close-out of the fiscal year in preparation for the annual audit. Due to other commitments, the City has experienced a backlog of completing the monthly bank and investment account reconciliations and needs assistance to get those caught up to date.
- **Availability for Audit Preparation:** The finance staff has requested assistance to prepare for the audit and assist with the related adjusting journal entries.

## CONSIDERATIONS AS YOU MOVE FORWARD

Given these challenges you're facing, we know that it can become overwhelming to grasp all the factors at play. Our team wants to ensure you have a pulse on all of these factors as you begin your search for solutions.

- Alleviate the burden of vacant positions by enlisting support from our experienced local government finance and accounting professionals. Our partnership with the City will ensure your accounting systems get back on track, and provide safeguards against future interruptions in workflow.
- By quickly addressing and resolving the backlog of monthly bank and investment account reconciliations, our experts will help bring accounts up to date efficiently. Ensuring your reconciliations are complete as part of your fiscal year close, to aid in a smooth audit process.
- Our team will provide dedicated support to assist with audit preparation, including organizing documentation, preparing for compliance requirements, and completing adjusting journal entries. This empowers your staff to be better equipped for a successful annual audit and ensures the City meet's its compliance obligation.
- To streamline the timeline and efficiencies in the completion of the monthly bank reconciliations, it is important for City staff to devote time to update the general ledger for utility billing and payroll module transactions, as well as post any unrecorded payments and withdrawals prior to the commencement of work.

# The path forward

## WHAT'S YOUR VISION?

**Let's build it together.** With knowledge and care, Abdo lights your path forward—illuminating opportunity and fueling your confidence to navigate the future. What do you envision for your future? We believe it could look something like this:

- Abdo Financial Solutions team can partner with the finance team to assist in training opportunities, as well as develop templates and guides to utilize which can reduce the adjustments needed at year-end. Through this collaboration, the City will be able to improve upon their financial reporting and reduce the timeline to complete their annual audits.

## EXPERTISE FOR YOUR CHALLENGES

In the government space, your organization faces unique challenges that require a specific understanding of government regulations and operations. Our team not only has experience working with governmental entities, but many came directly from city administration and finance offices, giving them a unique understanding of the challenges you face.



## Meet Tessa

**Tessa Beuning**  
Senior Manager

Tessa has direct experience supporting the City of Watertown. As lead on the City's bank reconciliation and audit preparation engagements for the past two years, Tessa is well equipped to lead a team of professionals to deliver high quality and expert advice for the City.



## The Abdo Difference

At Abdo, we believe in the importance of relationships. This core value is the foundation of our approach to delivering the best experience and outcomes for our clients. It's inherent in our people and the way we work.

We know that for our clients to be successful, it takes more than having experience and credentials – we take the time to listen to their unique motivations, goals, and challenges. We truly care about their journey and where their path leads.

[LEARN MORE ON OUR WEBSITE](#)

# Your Team

At Abdo, we believe that trust is a vital component in the success of our partnership. That trust requires an understanding of your needs and confidence in the expertise of your engagement team. That's why we've curated a team with relevant experience and first-hand knowledge of the challenges you face. Many of our advisors have worked in government finance offices for decades, cultivating the same experiences you currently face. This depth of understanding can lead to a comprehensive view of your challenges, potential cost reductions, and a quicker road to results.

## KEY CONTACTS

Key team members are briefly profiled below, with additional staff providing support as needed throughout the engagement.



### VICTORIA HOLTHAUS, CPA, MPA

**Partner**  
*victoria.holthaus@abdofs.com*  
**P** 952.715.3069

Vicki specializes in working with local governments and nonprofit agencies to strategize capital improvements, develop strategic long-range financial plans, and troubleshoot accounting and financial challenges. She also provides process evaluation and process improvement services for nonprofit and private sector clients.



### TESSA BEUNING

**Senior Manager**  
*tessa.beuning@abdofs.com*  
**P** 952.715.3027

Tessa joined the Firm in 2023, as a member of the Financial Solutions department. With over 18 years of experience, Tessa brings a wealth of knowledge to the Firm. She has experience working with cities, counties, school districts, nonprofits and municipal utilities. Prior to joining Abdo Financial Solutions, Tessa worked in government audit and was the Finance Director for the City of Melrose.



### AMBER CHURDIMSKY

**Senior Associate**  
*amber.chrudimsky@abdofs.com*  
**P** 952.715.3021

Amber joined the Firm's Financial Solutions department in 2021 and has a wealth of knowledge and experience in utility billing and customer service roles within local governments. She is highly trained and skilled in utility billing and special assessments and has provided customer service and training to internal and external clients.



### MICHEL GARCIA

**Associate**  
*michel.garcia@abdofs.com*  
**P** 480.808.2309

Michel joined Abdo in 2025 and has experience auditing for non-profit organizations as well as commercial entities, helping prepare the financial statements and experience with internal controls as well as current experience in governmental accounting, assisting in the preparation of accounts payable, budget preparation, quarterly reports, bank reconciliations, etc.



# Government Experience

You can have confidence in our years of experience performing consulting services, the quality of the accounting services we offer and our understanding of the unique challenges our clients face in the government space. Since 1963, we've served cities just like yours. With an unwavering commitment to streamlining processes, training staff, and finding technology-based solutions, we proudly offer excellence in governmental consulting and auditing. Out of our 250-strong, talented staff, over 60 team members are 100% focused on government clients, which include over 100 cities and other governmental entities. By serving cities across Minnesota, we have become experts in the nuances of how to best support your city. Our expertise affords you a consulting experience that is painless. We do this by communicating up front, coming fully prepared, and being available throughout the year to support you.

## PROCESS

Our methods are centered around incorporating technology to deliver unparalleled solutions for government organizations. In addition to our consulting experience, our firm expertly performs outsourcing for governments giving us a wealth of experience in a consulting role. We don't believe in a one-size-fits-all mentality. So together, we'll focus on the needs that are relevant to your city and provide the right services to meet them with a customized methodology based on your needs. We're focused on developing creative, customized solutions to help your city mitigate costs and boost efficiency.

## FOCUS

Through continuous training and growth opportunities, we've established an environment with a focus on serving government entities. We spend more than 100 hours training and onboarding to ensure success for our clients. We truly hope that you partner with us to light the path forward for your organization.

## OUR QUALIFICATIONS

- GFOA and MnGFOA Association members
- Government operations training
- Consulting services for over 100 cities
- We've assisted many municipalities in preparing for the GFOA's Certificate of Achievement for Excellence awards in financial reporting

**OUR FINANCIAL MANAGEMENT AND CONSULTING SERVICES INCLUDE:**

- Budget process development
- Capital improvement planning
- Cash flow analysis
- Cost containment processes
- Debt management plans
- ERP system consulting
- Federal and State relations/grant consulting
- Finance Director services
- Financial management plans
- Financial reporting and analysis
- Fleet: Operations and replacement rate analysis
- Interim accounting and financial services
- Internal control evaluation
- Long-term strategic planning
- Payroll processing
- Policy development
- Process flows and efficiencies
- Project management
- Quarterly and monthly reporting to management
- Reconciliations
- Software implementation
- Training
- Utility/fee analysis
- Year-end audit preparation and financial statement preparation



# Value

At Abdo FS, we are dedicated to assisting our clients in achieving their financial goals through comprehensive and personalized financial services. Our team of experienced professionals provide expert guidance in public finance.

SERVICES	ESTIMATED FEE
Bank Reconciliations	\$ 22,000
Audit Preparation	\$ 33,000
Client Training & Coding Templates	\$ 8,000

***\*Services will be billed hourly. Actual fees will vary from the estimates provided, based on the condition of the general ledger, and the responsiveness of City personnel.***

Our bill rates are subject to change on September 1st of each year.

This quote is valid for thirty (30) days.

# Scope of Services

ABDO FS CONTRACT TASK	CLIENT RESPONSIBILITY	FREQUENCY
<b>Cash and Investment Reconciliations</b>		
Complete bank reconciliations	Update transactions to general ledger from system and post any missing bank transactions prior to Abdo beginning reconciliations.	Monthly
Reconcile cash and investments to general ledger	Provide all supporting documentation and devote time for questions and data entry.	Monthly
Reconcile credit card statements	Code and post credit card transactions	Monthly
Adjust investment to market value and allocate interest to funds	Approve and post monthly investment interest and market value adjustments	Monthly
Review monthly to ensure timely and accurately balanced		Monthly
Verify bank has proper amount of collateral pledged as of 12/31/2025 and monthly thereafter	Provide monthly collateral statements from the bank	Monthly
<b>Audit Preparation</b>		
Prepare workpapers and gather support for the annual audit of the financial statements	Provide requested supporting documentation by agreed upon deadlines, and be available for related questions.	Annual
Provide proposed adjusting entries	Review, approve and post proposed adjusting entries.	Annual
<b>Client Training</b>		
Provide coding templates for frequently adjusted transactions	Devote time for training sessions, and begin using related templates.	One-time
Provide training on bank reconciliations	Devote time for training sessions and complete monthly bank reconciliations on timely basis.	Monthly
Review bank reconciliations prepared by City during transition and provide guidance.	Prepare monthly reconciliations by 15th day after month end.	Monthly
Provide and train on audit workpaper templates.	Devote time for training sessions	
Review client prepared workpapers during transition.	Prepare various workpapers and adjusting entries within agreed upon timelines.	

# Technology



We believe technology should enhance our service offerings, making our work less intrusive, our time with you more productive and everyone's data more secure. The use of technology in our accounting services enables us to streamline our processes and helps to automate certain functions of our work so we are able to spend more time analyzing our results and working directly with you.

Through the outbreak of COVID-19, our team has been able to seamlessly move to a completely remote work environment with no loss of productivity, cooperation, or communication. Since March 17, 2020, our staff has been successfully conducting remote accounting services using the latest video conferencing and secure file sharing technology. Through Zoom, Microsoft Teams, or whatever technology your city may use, our team will continue to work through normal procedures, including regular meetings with you to ensure effective collaboration with your team. Through SuraLink, you'll be able to see what documents have been uploaded, what documents are still needed, and keep track of important audit workpapers securely and easily.

We take the security of our client's data - and our own - very seriously. A number of systems are in place to ensure the safety of your city's data. We operate on a remote distributed infrastructure leveraging Microsoft's Cloud Platform Azure. This not only allows our staff to securely work from any computer, anywhere, any time, but also provides large-scale, cutting-edge technology and security for your data. Your data is housed in secure data centers that reside exclusively in the U.S. and not on laptops or local servers which could be stolen or misplaced. We continually provide security awareness training to our staff members to ensure they are good digital stewards of your data. In addition to this, we also consult bi annually with 3rd party security experts to conduct risk assessments and conduct annual penetration tests.

## IT ALSO MEANS:



All firm staff use dual authentication to ensure that every login to our remote environment is secure and authorized.



All data is saved on redundant servers and data centers so if one server fails, another immediately takes over with no data lost.



All data is backed up continually which means we always have an extra copy for safe-keeping.



All incoming emails, attachments, and embedded links are scanned for viruses prior to landing in our inbox, which allows us to operate with more protection from phishing emails, malware attacks, and other digital threats.

Our cloud platform, Azure, is globally trusted by companies and governments and has numerous security compliance standard they adhere to. Reports of these can be provided as requested.



# An ongoing quest to be better, together

## OUR COMMITMENT TO DIVERSITY, EQUITY, & INCLUSION

At Abdo, we recognize the need for continuous improvement in diversity, equity and inclusion initiatives throughout our firm and the accounting industry at large. We aim to build a firm that provides opportunities for people that are as diverse as the clients we serve. We believe that when we understand each other better, we grow better together.

Over the past several years, we have increased our efforts to promote diversity, equity, and inclusion within our firm and community through training opportunities, guest speakers, and cultural awareness activities. Our Diversity, Equity, and Inclusion Committee continues to implement new ideas, projects, and initiatives to move our firm forward through learning, understanding, and improving on these issues.

We continue to increase our number of women at the highest leadership level. We strive for continued growth in our ability to attract and retain women and people of color within our firm and we are working towards greater equity and diversity for all within our industry.

Abdo is committed to advancing the interest in accounting careers for students of color at both the high school and college level. In 2022, the firm was chosen as one of just ten firms in the nation to host an ethnic minority accounting student as part of the AICPA's PCPS George Willie Ethnically Diverse Student Scholarship and Internship Program. The recipient of this scholarship remains with the firm today as a senior associate in our tax department.

In order to build a more inclusive work environment, the firm has implemented diversity and inclusion education through partnering with expert speakers and trainers. Please let us know if you have any ideas on how we can improve diversity, equity, and inclusion at Abdo.



**59%**  
of our employees  
are female



**56%**  
of our  
management level  
employees are  
female



**18%**  
of our interns this  
year are people of  
color

## ABDO DIVERSE SCHOLARSHIP & INTERNSHIP PROGRAM

Abdo was a proud co-sponsor of the AICPA PCPS George Willie Ethnically Diverse Student Scholarship & Internship, which allows 10 ethnically diverse accounting students the opportunity to be awarded internships with a firm that has been selected by the AICPA. Upon conclusion of this successful partnership, we were inspired to create our own DEI Sponsorship program, annually awarding a rising diverse accounting student a scholarship & internship.



## DEI Initiatives



### PARTNERSHIP WITH NABA

Abdo is proud to sponsor the Minnesota State University, Mankato Chapter of NABA (National Association of Black Accountants) Inc. NABA is committed to increasing the number of African Americans in the accounting and finance professions and to promoting their success. As a firm, we are invested in not only increasing diversity within our organization but support diversifying the industry as a whole. We are committed to providing guidance and mentorship along with financial support to this organization.



### GREATER MANKATO GROWTH DEI COLLABORATIVE

Abdo is a founding sponsor and member of Greater Mankato Growth's (the Mankato region's chamber of commerce) DEI Collaborative. This collaborative was formed to discuss what we could do as individuals, organizations, and the community to increase diversity and make our community a welcoming one. Together, we explored our individual biases, developed action plans to make a difference within our organization, and pledged to continue the work to make our community inclusive.

### CEO ACTION PLEDGE

We are proud signatories of the CEO Action Pledge, a pledge signed by CEOs from different sectors, sizes, and geographical area to support more inclusive workplaces. As part of this pledge, we work toward goals including DEI education and recruiting. We promise to have the difficult conversations and make our firm, and this industry—one that better reflects the communities we live and work.



### YWCA

We are committed to the continued support and advancement of women in our firm and in our communities. One of the ways we do this is through a partnership with YWCA Mankato, an organization whose mission is dedicated to eliminating racism, empowering women, and promoting peace, justice, freedom and dignity for all. We are proud sponsors of the Elizabeth Kearney Women's Leadership Program, Women's Leadership Conference, and Women of Distinction event.



### COMMUNITY INVOLVEMENT

Every year, we come together as a firm to participate in what we call a "Day of Action." This gives us an opportunity to give back to organizations within our communities that support underserved populations. You can catch us volunteering at a food shelf, building houses, or helping at an After School Program. In addition, the firm pledges 24 hours of VTO (Volunteer Time Off), for each employee to volunteer at the nonprofit of their choosing. We truly believe we are better, together.

# Why Partner with Abdo

## LIGHTING THE PATH FORWARD

In a world of ever-changing complexity, people need caring, empathetic and highly skilled professionals they can depend on to provide the right advice and solutions for them. Our clients seek growth and success, but also want security and confidence. For over 60 years, Abdo has provided insights for our clients to help them achieve their goals.

That same innovative spirit is also what has earned us the title of being one of the top accounting firms in the Midwest. Abdo is a better firm today because of the efforts we made to support a culture driven by our core values of growth, relationships, and teamwork.

With this foundation in place, we have successfully helped our clients identify and break through their own growth barriers. Every challenge they face is an opportunity for us to listen, understand and empower them with solutions and a plan to achieve their goals. It's fulfilling to serve as the catalyst that helps them overcome obstacles that block their progress.

When it comes to our working relationships, we are partners. We're confidants. We're the catalyst that sparks true business growth, providing guidance through every challenge and opportunity along the way.

## ABOUT ABDO

Abdo is a full-service accounting and consulting firm that delivers customized strategies and innovative solutions to help businesses, governments and nonprofits succeed. With more than 200 professionals and over six decades of experience, Abdo is ranked as one of the top accounting firms in the Midwest. It is a licensed CPA firm with offices located in Minneapolis and Mankato, Minnesota, and Scottsdale, AZ. Abdo's commitment to its clients is to gain in-depth knowledge of their unique challenges, opportunities, and needs. Through this consultative approach, Abdo partners with organization leaders to light the path forward to confidently reach their goals.

*"Listening to our clients' needs, understanding their challenges, and adjusting how we work together is key to our partnership with the people we serve."*

-- **Steve McDonald, CPA** | *Managing Partner*



# Appendix A

AGREEMENT FOR FINANCIAL SERVICES



# Agreement for Financial Services

THIS AGREEMENT, is made and entered into on December 05, 2025 by and between the City of Watertown, Minnesota (hereinafter referred to as the (“Client”), and Abdo Financial Solutions (hereinafter referred to as the “Contractor”).

## Articles of Agreement & Recitals

WHEREAS, the Client is authorized and empowered to secure from time to time certain professional services through contracts with qualified consultants; and

WHEREAS, the Contractor understands and agrees that:

1. The Contractor will act as an Independent Contractor in the performance of all duties under this Agreement. Accordingly, the Contractor shall be responsible for payment of all taxes, including federal, state and local taxes and professional/business license fees arising out of the Contractor’s activities;
2. The Contractor shall have no authority to bind the Client for the performance of any services or to obligate the Client. The Contractor is not an agent, servant, or employee of the Client and shall not make any such representations or hold himself/herself out as such;
3. The Contractor shall be the exclusive outsourced accounting service provider for the Client during the term of this Agreement;
4. The Contractor shall perform all professional services in a competent and professional manner, acting in the best interests of the Client at all times.
5. The Contractor shall not accrue any continuing contract rights for the services performed under this Agreement.

NOW THEREFORE, in consideration of the mutual covenants and promises contained herein, it is agreed as follows:

## ARTICLE I

### INCORPORATION OF RECITALS

The recitals and agreement set forth above are hereby incorporated into this Agreement.

## ARTICLE II

### LIABILITY INSURANCE

**Section 1 Liability Insurance:** The Contractor shall obtain professional liability insurance, at their expense with liability insurance coverage minimums in the amount of \$2,000,000, which Contractor must secure and maintain during the term of this Agreement. Contractor will provide Client with proof of liability insurance coverage under this Agreement in writing upon request by the Client.

### ARTICLE III

#### DURATION OF THE AGREEMENT

**Section 1 Duration:** This Agreement shall commence upon date of execution by all parties and will remain in effect until December 31, 2027 unless earlier terminated as provided in Sections 2 and 3.

**Section 2 Client's Termination Rights:** The Client may terminate this Agreement upon sixty (60) days written notice in the event the Client determines in its sole discretion that it is not in the Client's best interest to continue using Contractor's services. The Client may terminate on ten (10) days written notice if the Contractor fails to perform its obligations under this Agreement.

**Section 3 Contractor's Termination Rights:** Contractor may terminate this Agreement upon thirty (30) days written notice to Client in the event Client does not pay Contractor compensation as required under Article 5, Section 9 within fifteen (15) days after invoice is received by Client. In the event of non-payment within thirty (30) days, Contractor shall give the Client an opportunity to cure the default by giving a notice of such non-payment and an additional five (5) days after the Client's receipt of the notice to remit such payment, prior to giving a notice of termination. Contractor can also terminate the Agreement with one hundred twenty (120) days written notice if the Contractor believes it is in its best interests to terminate the Agreement.

### ARTICLE IV

#### GENERAL

**Section 1 Authorized Client Agent:** The Client's authorized agent for the purpose of administration of this Agreement is the City Administrator. Said agent shall have final authority for approval and acceptance of the Contractor's services performed under this Agreement and shall further have responsibility for administration of the terms and conditions of this Agreement. All notices under this Agreement shall be sent to the person and address indicated below on the signature lines.

**Section 2 Amendments:** No amendments or variations of the terms and conditions of this Agreement shall be valid unless in writing and signed by the parties.

**Section 3 Assignability:** The Contractor's rights and obligations under this Agreement are not assignable or transferable.

**Section 4 Data:** Any data or materials, including, but not limited to, reports, studies, photographs, negatives, or any and all other documents prepared by the Contractor or its outside consultants in the performance of the Contractor's obligations under this Agreement shall be the exclusive property of the Client, and any such data and materials shall be remitted to the Client by the Contractor upon completion, expiration, or termination of this Agreement. Further, any such data and materials shall be treated and maintained by the Contractor and its outside consultants in accordance with applicable federal, state and local laws. Further, Contractor will have access to data collected or maintained by the Client to the extent necessary to perform Contractor's obligations under this Agreement. Contractor agrees to maintain all data obtained from the Client in the same manner as the Client is required under the Minnesota Government Data Practices Act, Minnesota Statutes Chapter 13 or other applicable law (hereinafter referred to as the "Act"). Contractor will not release or disclose the contents of data classified as not public to any person except at the written direction of the Client. Upon receipt of a request to obtain and/or review data as defined in the Act, Contractor will immediately notify the Client. The Client shall provide written direction to Contractor regarding the request within a reasonable time, not to exceed fifteen (15) days. The Client agrees to indemnify, hold harmless and defend Contractor for any liability, expense, cost, damages, claim, and action, including attorneys' fees, arising out of or related to Contractor's complying with the Client's direction. Subject to the aforementioned, Contractor agrees to defend and indemnify the Client from any claim, liability, damage or loss asserted against the Client as a result of Contractor's failure to comply with the requirements of the Act. Upon termination and/or completion of this Agreement, Contractor agrees to return all data to the Client, as requested by the Client.

## ARTICLE IV - CONTINUED

### GENERAL (CONTINUED)

**Section 5 Entire Agreement:** This Agreement is the entire agreement between the Client and the Contractor, and it supersedes all prior written or oral agreements. There are no other covenants, promises, undertakings, or understandings outside of this Agreement other than those specifically set forth. Any term, condition, prior course of dealing, course of performance, usage of trade, understanding, or agreement purporting to modify, vary, supplement, or explain any provision of this Agreement is null and void and of no effect unless in writing and signed by representatives of both parties authorized to amend this Agreement.

**Section 6 Severability:** All terms and covenants contained in this Agreement are severable. In the event any provision of this Agreement shall be held invalid by any court of competent jurisdiction, this Agreement shall be interpreted as if such invalid terms or covenants were not contained herein, and such holding shall not invalidate or render unenforceable any other provision hereof.

**Section 7 Contractor Fiscal Decision Waiver:** Contractor is responsible for providing the Client with timely and accurate financial recommendations and information that allows the Council the ability to make final financial decisions. Contractor will provide final financial recommendations but is not responsible for the final decisions made regarding financial matters.

**Section 8 Compensation:** The parties agree that the Contractor shall be paid compensation for the services provided hereunder, payable for work performed in accordance with this Agreement, based on the fees indicated on the Value page of this proposal. Additional fees will not be incurred without prior approval of the Client.

Initial invoice for anticipated first month fees will be sent within 10 days of the execution of this agreement. Monthly installment fees will be invoiced throughout the remainder of this Agreement. If the Agreement is for an hourly fee basis, invoices will be sent monthly.

**Section 9 Additional Services:** Should the Client request additional services in addition to the Contracted Services, the Contractor will provide the Client with proposed fees for the services to be provided. The Client shall provide a written or electronic confirmation prior to the proposed services implementation.

**Section 10 Outside Contractors:** It shall be the responsibility of Contractor to compensate any other outside consultants retained or hired by Contractor to fulfill their obligations under this Agreement and shall be responsible for their work and Contractor, by using outside contractors, shall not be relieved of its obligations under this Agreement.

**Section 11 Municipal Advisor:** Abdo FS acknowledges the Client may/has retained an independent registered municipal advisor (IRMA) to assist and advise the Client in evaluating information relating to the issuance of municipal securities and/or municipal financial products. Abdo FS acknowledges the Client will rely on advice from their IRMA. Abdo FS will have no recourse against the Client or its IRMA, regarding action or inaction relating to evaluating, commenting on, or responding to financial projects or information received under this Agreement. Abdo FS acknowledges it is not the registered independent municipal advisor retained by the Municipal Entity Client.

**Section 12 Equal Employment Opportunity:** Abdo, LLP and its subsidiary companies are committed to providing equal employment opportunities to all employees and applicants for employment without regard to any legally-recognized basis "protected class" including but not limited to: veteran status, uniform service member status, race, color, religion, sex, national origin, age, physical or mental disability, sexual orientation or marital preference, genetic information or any other protected class under federal, state, or local law.



# Appendix B

AGREEMENT FOR THE PROVISION OF  
PROFESSIONAL SERVICES



# Agreement for the Provision of Professional Services

WHEREFORE, this Agreement was entered into on the date set forth below and the undersigned, by execution hereof, represent that they are authorized to enter into this Agreement on behalf of the respective parties and state that this Agreement has been read by them and that the undersigned understand and fully agree to each, all and every provision hereof, and hereby, acknowledge receipt of a copy hereof.

**City of Watertown**

309 Lewis Ave S.  
Watertown, Minnesota 55388



SIGNATURE

Dan Tolsma

**Abdo Financial Solutions, LLC**

5201 Eden Avenue, Suite 250  
Edina, Minnesota 55436

A handwritten signature in black ink that reads "Victoria Holthaus".

**Victoria Holthaus, CPA, MPA**

Partner | Abdo

*December 05, 2025*



# MEMORANDUM

To: City of Watertown

From: Allison Streich, Carver County CDA

Date: December 9, 2025

Subject: CDA-Owned Land in Forest Hills Addition

## Background

The Carver County CDA acquired 25.41 acres in the Forest Hills addition in 2016 through a donation from a private developer (with a tax-deductible donation letter provided). In 2017, we developed a concept plan envisioning:

- North end: Slab-on-grade homes
- Middle: Row homes and townhomes
- South end: Multi-family housing

The plan included selling the homeownership portion and retaining the southernmost section for CDA developed multi-family units, with some land trust homes incorporated in the for-sale portion. This concept was based on discussions with the city, focusing on senior housing options to allow residents to remain in Watertown. However, infrastructure costs, estimated at over \$1 million, made the project challenging.

## Previous Communication

In 2020, we shared a letter outlining development challenges. Infrastructure costs had risen to \$2.4 million, making it financially unfeasible for the CDA to recover costs through home sales. Additionally, financing gaps for a CDA-owned rental building were too large.

## Current Status

In 2008 and 2009, during the economic downturn, the CDA purchased land in the City of Waconia and the City of Carver. We had been working to develop multi-family projects in both cities when we acquired the Watertown land. Since 2020, CDA has prioritized other parcels due to the high infrastructure costs for the



Watertown land. We successfully funded and developed:

- Trail's Edge South (Waconia) – 60-unit affordable housing
- Carver Place (Carver) – 60-unit affordable housing
- Carver Oaks (Carver) – 43-unit affordable senior housing - Opening March 2026

For Watertown, we are now working with a developer to sell a portion of 5 acres of the southernmost parcel for a multi-family project, while retaining half for a senior rental development to be developed and owned by the CDA.

## Next Steps

We plan to issue an RFP for the remaining 20 acres, awarding additional points to proposals that include land trust homes (affordable homeownership model). If the City has any questions, please let us know. We will share the RFP once we are ready to release it.

Thank you for your time and consideration.



# memo



To: Mayor Washburn  
Shane Fineran, Watertown City Administrator

From: Julie Frick, Carver County CDA Executive Director

Date: March 10, 2020

Re: Carver County CDA Land

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Thank you for your time recently to discuss the CDA's property in the Forest Hills development. Below is a summary of our discussion.

## *History*

In 2016 the CDA acquired, through a donation, the easterly portion of the Forest Hills development, which was platted as an outlot for future development. This portion of the property was vacant at the time of the acquisition. Since the acquisition, the CDA has been looking at how to develop this 26-acre parcel and/or sell for development.

## *Current Concept*

The current concept by the CDA envisions a mix of housing types on the site. The CDA would develop, own, and manage a 50-unit multi-family rental building for seniors on the south end of the site, with the possibility of a second building in the future. The remaining acreage is envisioned to be sold and developed with a mix of owner-occupied units such as townhouses, twin and patio homes and single-family homes at the north end of the property.

## *Challenges*

This project presents several unique challenges. These challenges must be overcome before the CDA can move this project from concept to implementation.

The first challenge is the cost of constructing the road needed for the development. The original plat was developed in 2006, with some of the site grading and road work already completed on the CDA's parcel. For the CDA to sell the remaining land to a developer, the roadway (Paul Avenue) needs to be constructed as a collector street. The cost to do this exceeds \$2.4 million and because some preliminary work on the roadway has already been done, significant changes to this would be even more costly. While the intent is that the CDA would likely sell the owner-occupied lots, after review of what the lots could be sold at, the CDA is unable to recoup its cost of construction making this scenario financially unfeasible. The CDA also considered partnering with developers to construct the roadway thereby sharing the upfront cost. The

uncertainty of the real estate market and insufficient demand for the needed unit price point also makes this option not viable.

The second challenge is the cost of developing the multi-family rental building the CDA will own and manage at the south end of the property. Based upon a market study the CDA completed, a 50-unit senior, affordable building is feasible from a market demand; however, a financing gap of \$4.5 million exists with a development of this size. CDA staff has reviewed many potential funding sources but is unable to identify a source which would address the financing gap. Building a larger building at approximately 70 units is more financially feasible, but it cannot happen without market demand.

We appreciate the city's support of the CDA in trying to move this development forward, and we will continue to work to explore all options.

Sincerely,

Julie M. Frick  
Executive Director  
Carver County CDA

**Watertown City Council**

January 13th, 2026

**Agenda Item: Engine 11 Pump and Body Purchase****Request for Action: Motion to Approve the Purchase of the Pump and Body Modules for 2026 Engine 11****Department: Tom Hanson, Fire Chief****Background:**

On May 28<sup>th</sup>, 2024, Council provided authorization to enter into a purchase agreement to purchase a Sutphen Monarch Fire Engine Chassis to replace our current Engine 11 in 2026. At that time, the intent of the staff and council was to procure the Fire Engine Chassis to save an approximate cost of \$100,000 before 2027 engine emissions requirements were in place. Although the federal emission requirements have been relaxed, engine manufacturers are still moving forward with the updated engine packages, set to debut in 2026. The chassis was delivered in early 2025 and the cost savings were recognized at that time.

The current Engine 11 is a 2003 CustomFIRE Engine and has served the community well for 23 years. This apparatus is well maintained, has a Stainless-Steel Body, and remains in sound condition. Staff's intent with this apparatus is to list this unit for sale and sell it directly to another fire department. Fire Department staff has received 3 inquiries about this engine already.

Currently at CustomFIRE, our new chassis is scheduled to be outfitted as a fire truck within the coming months. This includes adding the 1500-gpm side-mount pump, 750-gallon water tank, body compartments, necessary emergency equipment, and lighting. In addition to current safety features found on the chassis, this vehicle will have a light tower and additional storage not found on our current engine. Much like the last unit, the intended life cycle of this engine is upwards of 20 years.

Staff has utilized the Sourcewell pricing model to procure this apparatus. Sourcewell is a government-created service cooperative that helps public agencies save time and money by providing pre-negotiated, competitively solicited contracts for products and services, essentially combining their buying power for better deals without the need for individual bidding processes – like the State Contract.

The cost to complete this acquisition is \$720,833.89. Upon execution of the contract, CustomFIRE is offering a 4% pre-pay discount on any unpaid balance within 10 days. This amount equates to \$28,833.36, bringing the net cost to \$692,000.53. Chief Hanson consulted Admin Services Director Sommerfeld about the pre-pay discount for additional information. It is our opinion that the 4% savings is a fair return due to the short window of time to invest the money while this apparatus is being built.

**Budget Impact:**

Staff has budgeted \$1,200,000 for the Engine 11 replacement in 2026. The total price of the chassis was \$525,000.00 and was paid upon its delivery in 2025. The balance of the project cost is \$720,833.89 for the pump and body modules. The total cost of this project is \$1,248,833.89 (\$1,217,000.53 with 4% pre-pay discount). Although over budget, there will be offsetting costs from the sale of our current Engine 11 that should put purchase within or under budget.

**Funding Source:**

Fire Capital Fund FC007 Engine - E11 (2003)

**Recommendation:**

Staff recommends the execution of purchase agreement for the pump and body modules.

**Motion Type:**

Simple majority vote of members present.

**Requested Action/Motion:**

"I move to approve the purchase of the pump and body modules from CustomFIRE apparatus for the 2026 replacement of Engine 11, utilizing the 4% pre-pay discount"

-or-

"I move to approve the purchase of the pump and body modules from CustomFIRE apparatus for the 2026 replacement of Engine 11, without the 4% pre-pay discount"

**Attachments:**

Chassis Photo

Engine Purchase Contract

Engine Spec



Feb 21, 2025, 1:45 PM



**Custom Fire Apparatus Inc.**

509 68<sup>th</sup> Ave

Osceola, WI 54020

**800.443.8851**

## **MOTOR VEHICLE PURCHASE CONTRACT** **Fire Apparatus to be Built on 2025 Monarch Chassis**

THIS AGREEMENT, made by and between CUSTOM FIRE APPARATUS, INC. of Osceola, Wisconsin, Sourcewell-MN Contract #113021-CSM, Party of the First Part, and: The CITY OF WATERTOWN and its FIRE DEPARTMENT of Watertown, Minnesota, Party of the Second Part, Sourcewell Member #111659, hereinafter called the BUYER.

WITNESSETH, That CUSTOM FIRE APPARATUS, INC. Agrees to sell, upon the conditions which are below written, the apparatus and equipment herein before described, all of which are to be in accordance with the specifications and warranties submitted by CUSTOM FIRE APPARATUS, INC. and which are made a part of this agreement and Contract.

***“One (1) new Sourcewell MPCU 2027 Pumper Apparatus Body to be built on the previously purchased 2025 Monarch Chassis Per Quote #10047-0005.”***

The BUYER agrees to purchase and pay for this completed apparatus as aforesaid, the Sum of: **Seven Hundred Twenty Thousand Eight Hundred Thirty-Three and 89/100 Dollars. (\$720,833.89)**

PAYMENT TERMS: Payment is due on Day of Completion Acceptance at the Osceola, Wisc. factory, estimated to be within 280 Working Days or Sooner.

***Buyer may pre-pay the contract within 10 Calendar Days of contract execution and receive a flat 4% discount on undue amount paid.***

GUARANTY: The BUYER hereby guarantees that the funds will be ready and available for transfer in the form of legal tender, a negotiable check or direct bank wire transfer on or prior to the day of chassis delivery. And it is further mutually agreed that no misunderstanding, verbal or written, regarding equipment or otherwise, shall enjoin CUSTOM FIRE APPARATUS, INC. unless in this contract.

TERMINATION: After the execution of this Agreement, Purchaser shall have no right to terminate the Agreement. Custom Fire Apparatus, Inc. may, in its absolute and sole discretion, accept Purchaser's request to terminate the Agreement. In the event Custom Fire Apparatus, Inc accepts Purchaser's request to terminate the Agreement, Custom Fire Apparatus, Inc may charge a cancellation fee. The following charge schedule based on costs incurred may be applied at Custom Fire Apparatus, Inc.'s sole discretion:

(a) 10% after order is accepted by Custom Fire Apparatus, Inc;

(b) 30% of the Purchase Price after production has commenced. The cancellation fee may increase accordingly as costs are incurred as the order progresses through engineering and into manufacturing.



**Custom Fire Apparatus Inc.**

509 68<sup>th</sup> Ave

Osceola, WI 54020

**800.443.8851**

**GUARANTY:** The BUYER hereby guarantees that the funds will be ready and available for transfer in the form of legal tender, a negotiable check or direct bank wire transfer on or prior to the date due. And it is further mutually agreed that no misunderstanding, verbal or written, regarding equipment or otherwise, shall enjoin CUSTOM FIRE APPARATUS, INC. unless in this contract.

**LIABILITY:** Physical damage to the truck or chassis will be the responsibility of CUSTOM FIRE APPARATUS, INC. on a primary basis, regardless of what other insurance is available, as long as the vehicle is in the care, custody and control of same. Any componentry furnished by the BUYER, including the truck chassis, will be insured for its purchase price, by and when in possession of CUSTOM FIRE APPARATUS, INC. Upon arrival of delivery engineer with the apparatus, or upon delivery and acceptance of the same at the factory in Osceola, Wisconsin, Party of the Second Part (BUYER) does agree to provide all insurance to hold both parties harmless and free from any loss.

WITNESS our hands and official seal this \_\_\_\_\_ day of December 2025.

**CUSTOM FIRE APPARATUS, INC.**  
(Party of the First Part)

**CITY OF WATERTOWN FIRE DEPARTMENT**  
(Party of the Second Part)

By:

By:

\_\_\_\_\_  
JAMES M. KIRVIDA

PRESIDENT OF THE CORPORATION

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## Watertown Fire Department

## Custom Pumper Apparatus

As Per Sourcewell MPCU Contract 2025-12-10

### Watertown, Minnesota

The following Proposal Specifications are for the piece of apparatus as follows:

*Fire Truck, triple pumper, 1500 gallon per minute, hose body, booster tank, and all other appurtenances in accordance with the following:*

#### GENERAL REQUIREMENTS

It is the intent of these specifications to cover the furnishing and delivering to the purchaser, complete apparatus equipped as specified. Minor details of construction and materials where not otherwise specified are left to the discretion of Custom Fire Apparatus, Inc. (CustomFIRE) who shall be solely responsible for the design and construction of all features.

The apparatus being furnished under these specifications shall conform to the requirements specific to pumper fire apparatus NFPA Booklet 1901 version current at time of contract. Any test equipment required, or expense incurred for the Certification Tests shall be borne by CustomFIRE.

**RELIABILITY OF CONTRACTOR:** Please refer to the company literature and newsletters as evidence that we can design, engineer, and construct the apparatus specified. The location of the factory where the apparatus is to be manufactured and tested is in Osceola, Wisconsin.

**DESIGN:** The design of the equipment shall be in accordance with the best engineering practices. The equipment design and accessory installation shall permit accessibility for use, maintenance, and service. All components and assemblies shall be free of hazardous protrusions, sharp edges, cracks or other elements which might cause injury to personnel or equipment. NOTE: Where "nibbled" or non-continuous cutting methods are used to machine the body material, all edges shall be reworked/machine smoothed for injury prevention and appearance reasons.

All oil, hydraulic, and air tubing lines and electrical wiring shall be in protective positions, properly attached to the frame or body structure and shall have protective loom or grommets at each point where they pass through structural members.

Parts and components shall be located or positioned for rapid and simple inspection and recognition of excessive wear or potential failure. Whenever functional layout of operating components determines that physical or visual interference between items cannot be avoided, the item predicted to require the most maintenance shall be located for the best accessibility.



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Cover plates which must be removed for component adjustment or part removal will be equipped with disconnect fastenings or hinged panels.

Drains, filler plugs, grease fittings, hydraulic lines, bleeders and check points for all components will be located so that they are readily accessible and do not require special tools for proper servicing. Design practices shall minimize the number of tools required for maintenance.

All components shall be designed and protected so that heavy rain or other adverse weather conditions will not interfere with normal servicing or operation.

All specified stainless steel shall be type 304, 2-B where used for exterior painted panels and #4-brushed where used for pump panel overlays and unpainted compartment and body panels. All specified smooth surface aluminum, where used for painted or machined swirl natural finish, shall be 5052-H32 alloy of the specified thickness. All 4-way aluminum treadplate shall be "polished" finish with NFPA approved pattern on walking and step surfaces, type 3003 of specified thickness. All specified bolted fasteners shall be coated stainless steel "low profile" button socket head cap screws. All nut fasteners to be Ny-Lok or approved equal, designed to prevent loosening. No substitute will be acceptable to stainless steel where specified.

NOTE: Lighter gauges of specified materials will not be substituted - all basic requirements will be complied with.

Aluminum will not be substituted for any specified stainless fabrications.

CustomFIRE is prepared, if so requested by the Purchaser, to present evidence of our design experience/capabilities and manufacturing ability to carry out the terms of the contract.

### **FULLY ENGINEERED APPARATUS BODY and PUMP MODULE DESIGN**

The entire apparatus design is "fully engineered", meaning that ALL Compartmented Body and Pump Module fabrications have been computer 3-D modeled, "on-screen" assembled, and each individual part can be traced to a precision engineered drawing, including but not limited to: compartment corners, wheel well housings, compartment door jambs, compartment floors and roofs, compartment dividers/bulkheads, interior compartment wire covers, compartment shelves/shelf brackets/shelf adjustable tracks, inner and outer door panels (hinged doors), door bundle brackets (roll-up), roll-out trays/drawers/tool boards, hose bed dividers, pump house sides/front/back panels, pump operator's panel layout, pump gauge and instrument panel layout, etc.

In order to assure the precise fit of any and all replacement Body and Pump Module fabrications, all assembly fastener holes, lighting fixture holes, pump controls/gauges/instruments/outlet fitting/inlet fitting holes, door handle/latch holes, and accessory equipment/trim mounting holes will be included in the design engineering.



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#### **QUALITY AND WORKMANSHIP**

The design of the apparatus will embody the latest approved automotive engineering practices. The workmanship will be of the highest quality in its respective field. Special consideration will be given to the following points: Accessibility of the various units which require periodic maintenance, ease of operation (including both pumping and driving) and symmetrical proportions. Construction will be rugged and ample safety factors will be provided to carry the loads specified and to meet both on and off road requirements and speed conditions as set forth under "Performance Tests and Requirements".

Custom Fire Apparatus, Inc. utilizes premium "concealed-all-bolted" construction methods allowing future removal and repair of damaged apparatus body components. Welding will not be employed in the assembly of the apparatus in a manner that will prevent the ready removal of any component part for service or repair. The minimal steel welding utilized will follow American Welding Society D1.1-96 recommendations for structural steel welding. Any aluminum welding will be done to American Welding Society and ANSI D1.2-96 requirements for structural welding of aluminum. Flux core arc welding will use alloy rods, type 7000, American Welding Society standards A5.20-E70T1. An independent American Welding Society certified welding inspector will monitor weld quality.

#### **APPARATUS SIZE - CAPACITY - SEATING**

Total overall length of apparatus is not to exceed 390.00"., highest point of apparatus is not to exceed 124 inches, chassis wheelbase is not to not exceed 200.00 inches, and GVWR is to be at least 45,000 pounds.

The total overall width of apparatus is not to exceed 101 inches; this dimension is not to include the primary construction of the apparatus body and chassis cab. Any peripherals that are 'removable' are not to be incorporated into this measurement. Items that are considered 'removable' are: Rub Rails, Fenderettes, Mirrors, Lights, Handrails, Etc.

**RESPONSIBILITY OF PURCHASER:** It is the responsibility of the purchaser to specify the details of the apparatus, its required performance, the maximum number of fire fighters to ride on the apparatus, and any hose ground ladders, or equipment it will be required to carry which exceed the minimum requirements of this standard.

A total of 5 ( 4 with SCBA's) seating positions are to be provided, "Fully Enclosed", with approved seat belts. Two seating positions are to be located inside forward chassis cab and 3 inside crew cab/area.

The GAWR, and GCWR or GVWR of the chassis is to be adequate to carry the fully equipped apparatus including full water and other tanks, the specified hose load, unequipped personnel weight (The unequipped personnel weight is to be calculated at 250 pound. per person times the maximum number of persons to ride the apparatus as specified.), ground ladders, and a miscellaneous equipment allowance of 2500 pounds. (2000 pounds. for apparatus with less than 250 cu. ft. of compartment space). It is the responsibility of the purchaser to provide the contractor with the weight of equipment to be carried if it is in excess of the allowance of 2500 pound.



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### PROPOSAL PRINT/DRAWING

Custom Fire Apparatus' proposal is being submitted with a complete detailed print of the apparatus as you may, or may not, have specified. The print is to a scale of 1 inch = 15 inches, and is of the exact apparatus being proposed, not a stock print of a unit resembling your design. All dimensions are subject to a +/- .125 inch (metal thickness) tolerance. The provided print has complete views of the driver side with chassis cab, passenger side with chassis cab, and the rear of body. The print also includes all of the following depicted items:

**CHASSIS:** exact replication of model of custom-built chassis cab with: roof line, interior seating arrangement, window arrangement, rear view mirrors, air conditioning condenser, non-emergency head/turn/marker lighting, front grille, air horns, bumper with extension, 120-volt shore power receptacle, air system keep-fill receptacle, emergency lighting fixtures, hand rails, and horizontal exhaust system with underbody outlet.

**APPARATUS BODY:** the apparatus body sub-frame, underbody tow eyes, water tank profile with baffles and suction sump, underbody folding wheel chocks, all exterior 4-way treadplate pattern areas, body access steps, hand rails, interior compartment shelving, emergency and non-emergency lighting fixtures, ladders and pike poles and storage area(s), hard suction hose and storage area(s), side and rear compartmentation showing dimensions and D-ring door hardware, / roll-up door slats/bundles/bar type handle/latches, and hose bed arrangement with dividers and grating material. / dividers, grating material, and hose bed covers.

**PUMP ENCLOSURE and PUMP SYSTEM:** pump enclosure/compartments, fire pump profile, fire pump transmission profile, tank-to-pump piping, pre-connect hose beds with hose guides, side pump panel removable sections, pump access door(s), pump control and instrument panel layout with: gauges, instruments, pump controls, discharge outlets with closures, suction inlets with closures, and deluge discharge riser with monitor/device.

**ADDITIONAL OPTIONAL FEATURES:** other optional features, as specified, are also included on the proposal drawing, this includes; front bumper extension accessories/treadplate gravel shield/pre-connect hose bed, interior chassis cab EMS storage compartments, interior body compartment roll-out trays, drop-down ladder rack, rewind air/hydraulic/cord reels, SCBA bottle storage compartments/racks, cascade air storage bottles with fill station, generator installation, permanent quartz lighting, hand operated 120-Volt floodlighting, 120-volt exterior body receptacles, extendible light tower, and other detailed accessories and features so as to provide a "picture" of the proposed apparatus.

**COMPLIANCE:** We trust, that the Quality and accuracy of our Proposal Drawing will be a major consideration, for your determining the most "responsible" proposal.

### **ACCEPTANCE TESTS AND REQUIREMENTS**

Acceptance tests on behalf of the purchaser shall be prescribed and conducted prior to delivery or within 10 days after delivery, in the presence of such person or persons as the purchaser may designate in the requirements for delivery.



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**ALTITUDE REQUIREMENTS:** The apparatus shall be designed to meet the specified rating at 2000 feet altitude above sea level.

**ROADABILITY:** The apparatus, when fully equipped and loaded per "Carrying Capacity", shall be capable of the following performance on dry/level/paved roads in good condition: From a standing start the vehicle shall attain a true speed of 35 MPH within 25 seconds. The vehicle shall attain a minimum top speed of 50 MPH. The apparatus shall be able to maintain a speed of at least 20 MPH on any grade up to and including 6%.

**ROAD TESTS:** Specified acceleration tests shall consist of two runs in opposite directions over the same route. From a standing start, through the gears, the vehicle shall attain a true speed of 35 mph within 25 seconds in the case of pumpers, and a true speed of 55 mph within 60 seconds.

The service brakes shall bring the fully laden apparatus to a complete stop from an initial speed of 20 MPH in a distance not exceeding 35 ft., on a substantially hard level surface road free from loose material, oil, or grease.

Manufacturer's pump test and independent third party pump certification tests shall be conducted in accordance with requirements of NFPA #1901. A Certificate of Testing shall be furnished to the Purchaser, both for the CFA Preliminary Tests and the third party Certification Tests.

Responsibility for the apparatus and equipment shall remain with Custom Fire Apparatus, Inc. until acceptance by the purchaser.

At the time of delivery, a hard copy of each of the following will be provided:

1. Engine manufacturer's certified brake horsepower curve showing the maximum no-load governed speed.
2. Manufacturer's record of pumper construction details, per NFPA 1901.
3. Manufacturer's Run-In Certification with preliminary test results.
4. Pump Manufacturer's Certification of Hydrostatic Tests.
5. Pump Manufacturer's Certification of Pump Test Results.
6. The Certification of Inspection/Test of Fire Department Pumper by an Independent Third Party per NFPA 1901 standards.
7. Weight documents from certified scales showing actual loading on the sides of front axle, sides of rear axle(s), and overall (four total) vehicle (with the water tank full but without personnel, equipment, and hose) shall be



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supplied with the completed vehicle to determine compliance with NFPA section 10-1. Weights shall verify side-to-side loading, to be in compliance with NFPA section 4.12.2.3.3

8. At least two copies of the complete operation and maintenance manual covering the completed apparatus as delivered including the pump, emergency lighting and siren, generator, or other furnished accessories.

9. Wiring diagrams of 12-volt electrical systems, installed by apparatus body manufacturer (prime contractor). Diagrams must be "vehicle specific", describing all 12-volt electrical functions as furnished on this **and only this** apparatus.

10. A finalized drawing of apparatus as completed.

11. A "Delivery Manual", consisting of a 3-ring notebook type binder with reference tabs for each section, shall be furnished to include the following items: invoice copy(ies), proof of insurance, Manufacturer's Statement of Origin, acceptance forms, certifications, specifications, individual component manufacturer instructions and parts manuals, warranty forms for body, warranty forms for all major components, warranty instructions and format to be used for compliance with warranty obligations, routine service forms/publications, technical publications or training guide for major components, and apparatus body print "as built".

12. Paint numbers of all color coatings.

13. Certifications of water tank capacity.

14. Written load analysis of 12-volt electrical system as installed by CustomFIRE.

A test data plate shall be provided at the pump operator's position which gives the rated discharges and pressures together with the speed of the engine as is determined by the manufacturer's test for this particular unit. Plate shall also include delivery date, pump serial number(s), original Customer, and the CFA serial number.

A permanent plate will be affixed in the driver's compartment specifying the quantity and type of fluids used in the vehicle:

All nameplates and instruction plates shall be metal or plastic with the information permanently engraved, stamped, or etched thereon. Metal nameplates to be installed with plated screws. All nameplates to be mounted in a conspicuous place.

**FAILURE TO MEET TESTS:** In the event that the apparatus fails to meet the test requirements on first trials, a second trial may be made at the option of CustomFIRE within 30 days of the date of the first trials. Such trials shall be final and conclusive and failure to comply with these requirements shall be cause for rejection. Failure to make such changes as the Chief of the Fire Department and/or the purchaser may consider necessary to conform



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to any clause of the specifications within thirty days after notice is given may also be cause for rejection of the apparatus.

#### **CONSTRUCTION METHODS AND MATERIALS**

CustomFIRE will be providing the tried and true "brake-formed" fabricated construction methods,, without the use of extrusions or other configuration limiting non precision construction methods. We will not mix body materials such as stainless-steel sheet metal over aluminum "space-frame" extrusions.

Our apparatus body will be easily repairable, since it does not include the practice of stitch-welding, seam-welding, or plug-welding mating body panels and fabrications. Likewise, our apparatus body construction methods do not rely on metal fusion, adhesives, encapsulating welded extrusions, or non-removable fasteners, as a method of permanent assembly.

**NOTE: THERE WILL BE NO PROPRIETARY EXTRUSIONS USED IN THE CONSTRUCTION OF THE PROPOSED APPARATUS BODY, THUS ALLOWING FOR APPARATUS BODY REPAIRS AND MODIFICATIONS BY ANY QUALIFIED FABRICATOR AND/OR AUTO BODY COLLISON REPAIR CENTER.**

#### **AWARD OF CONTRACT**

Custom Fire Apparatus, Inc. utilizes premium "concealed-all-bolted" construction methods allowing future removal and repair of damaged apparatus body components. This is "universally" considered to be a superior method of manufacturing, as compared to weld-together permanently assembled apparatus bodies.

Custom Fire Apparatus, Inc. is a USA Corporation that is 100% held, by its founder, a United States citizen who is "actively" operating the manufacturing business. Custom Fire Apparatus, Inc. is a Wisconsin Corporation, with Articles filed in December of 1978, and is still owned by the same "active" President, operating with the same Corporate Name.

Prior to the award an authorized representative of Custom Fire Apparatus, Inc. will be available meet with purchasing officials (at Purchaser's location) to personally discuss all facets of the Proposal specifications to insure a complete and satisfactory understanding of the bid proposal.

#### **STAINLESS STEEL DEMONSTRATED EXPERIENCE**

More than 45 years ago, Custom Fire Apparatus "pioneered" the use of stainless steel, to construct fire apparatus bodies, and can demonstrate where many of these apparatuses are still in active service, and multiple units hav had their stainless body "retro-fitted" onto new replacement chassis.



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#### **REQUIREMENTS OF THE APPARATUS MANUFACTURER**

Custom Fire Apparatus, Inc. is a USA Corporation that is 100% held, by its founder, who is "actively" operating the manufacturing business, located within the United States of America.

#### **YEARS IN BUSINESS**

Custom Fire Apparatus, Inc. is a Wisconsin Corporation, with Articles filed in December of 1978, and is still owned by the same "active" President, operating with the same Corporate Name. Also active in the management of Custom Fire Apparatus, Inc. is a 4th Generation "fire truck family" member, who is a degreed Mechanical Engineer, with over 25 years of fire apparatus design experience.

#### **CONSTRUCTION MATERIALS**

More than 42 years ago, Custom Fire Apparatus "pioneered" the use of stainless steel, to construct fire apparatus bodies, and can demonstrate where these apparatuses are still in active service. Aluminum materials have been used for the same period of time.

#### **INSPECTION TRIPS**

The Truck Committee members will be advised as to the date of the following phases of construction: Pre-Construction (prior to bending of metal), Pre-Paint (final design/equipment layout), and Pre-Delivery. All Truck Committee members are welcome to travel to the factory during these, and any other stages of construction, at the purchaser's expense.

All changes to original proposal specifications, as approved by the Truck Committee during any factory visit, will be noted on a "revised specification", provided by Custom Fire and distributed to the designated head of Truck Committee, within five working days after any Conference(s).

#### **CONTRACT ADMINISTRATOR**

Upon execution of the Sales Contract, an on-staff Contract Administrator shall be assigned whose purpose is to be the single-point contact to the Purchaser's designated Apparatus Committee Representative(s). Communications will be established between the Contract Administrator and the Purchaser's Representative(s), in the form of Phone Numbers, Mailing Addresses and Email addresses.

#### **BALANCE PAYMENT TERMS**

Final payment terms for completed apparatus is 100% of Purchase Price is due on the day of delivery. Apparatus shall not leave care, custody and control of Custom Fire Apparatus, Inc. or designated Sales Representative without full payment of the same.



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Final delivery price shall not include any Local, State, or Federal taxes. Custom Fire Apparatus, Inc. shall not be liable for any State or Federally mandated tax or program after the sale of this apparatus.

#### **POST CONTRACT SURCHARGES**

*Due to supply chain volatility, surcharges may be added after contract and will be disclosed and passed on to buyer at cost. Surcharges shall not be deemed suitable reason for contract termination by either party."*

#### **DELIVERY CONSTRUCTION PERIOD**

The maximum period for construction of complete apparatus shall not exceed two hundred eighty (280) working days and shall include the time required for delivery of the chassis to our factory. CustomFIRE will not be held liable for delay of delivery caused by accidents, strikes, floods, or other events not subject to our control. You may also refer to the Bid Proposal Form for the number of working days for completed delivery of the apparatus, from date of bid acceptance and any further information.

#### **FACTORY DELIVERY OF FIRE APPARATUS**

The completed Fire Apparatus is to be delivered to the purchaser, at the Factory of the Manufacture. The purchaser is to provide drive-way transportation of the Fire Apparatus.

#### **FACTORY OPERATIONAL PRESENTATION, PROVIDED BY SALESPERSON**

The Sales Representative will provide one (1) day of Factory On-Site Operational Training and Orientation.



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#### GENERAL WARRANTY

The new fire apparatus manufactured per these specifications shall be warranted for a period of ONE (1) year from the date of delivery, except for chassis and other components noted herein.

Under this warranty, CustomFire agrees to furnish any parts to replace those that have failed due to defective material or workmanship where there is no indication of abuse, neglect, unusual or other than normal service providing that such parts are, at the option of CustomFire, made available for inspection upon request, returned to the Osceola, Wisconsin factory or other location designated by CustomFire with transportation prepaid within 30 days after the date of failure or within ONE (1) year from the date of delivery of the apparatus to the original purchaser, whichever occurs first, and inspection indicates the failure was attributed to defective material or workmanship. Accessories/components warranted by their original manufacturer may be subject to reinstallation charges under the terms of their respective warranties, especially if such warranties exceed the above 1-year warranty terms.

The warranty on the chassis and chassis supplied components, storage batteries, valves, generators, electrical lamps and other devices subject to deterioration is limited to the warranty of the manufacturer thereof and adjustments for the same are to be made directly with the chassis manufacturer by the purchaser.

This warranty will not apply to any fire apparatus which has been repaired or altered outside the Osceola, WI factory or designated (approved) facility in any way, which, in CustomFIRE's opinion might affect its stability or reliability. Each warranty claim needing repair or service at the designated facility must receive preauthorization by CustomFire prior to performance of any work.

This warranty will not apply to those items which are usually considered to be normal maintenance and upkeep services: including, but not limited to, normal lubrication or proper adjustment or minor auxiliary pumps or reels.

Refer to the "BOOSTER TANK" section for specific warranties on the provided Booster Tank.

This warranty is in lieu of all other warranties, expressed or implied, all other representations to the original purchaser, and all other obligations or liabilities, including liabilities for incidental or consequential damage on CustomFIRE's part. Without limiting the foregoing, any express or implied warranties of merchantability or fitness for a particular purpose or warranties arising by Customer usage or by operation of law with regard to any products delivered pursuant hereto are expressly disclaimed. CustomFire neither assumes nor authorizes any person to assume for CustomFire, any liability in connection with the sales of CustomFIRE's apparatus unless made in writing by CustomFire.



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#### 25-YEAR WARRANTY ON STAINLESS STEEL BODY FABRICATIONS

CUSTOM FIRE APPARATUS, INC. shall warrant to the original purchaser only that the stainless-steel body components as fabricated by and assembled by CUSTOM FIRE APPARATUS, INC., under normal use and with reasonable maintenance, are structurally sound and shall remain so, for a period of 25-YEARS. Furthermore, all stainless-steel fabrications shall remain free from corrosion perforation, for the same 25 YEARS.

In the event that the body is “remounted” to another chassis that is different from the chassis of origination, this warranty shall be void.

This warranty does not apply to the following items which are covered by a separate warranty: paint finish, hardware, moldings, and other purchased or non-stainless steel accessories which are attached to this body.

*Surface tarnishing or discoloration on any exposed body surface is not covered under this warranty. Body Damage that occurs when normal wear and tear to hinges, latches, or other fasteners results in damage to doors or body panels is not covered. It is the responsibility of the purchaser to maintain fit and alignment of doors and latches. This warranty terminates upon transfer of possession or ownership from the original purchaser.*

**NOTE:** This 25-year warranty requires that the body be equipped with the purchased option of CustomFIRE's tubular stainless steel body sub-frame.

CUSTOM FIRE APPARATUS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE STAINLESS-STEEL BODY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

CUSTOM FIRE APPARATUS, INC. shall replace, without charge, repair at the factory, or make a fair allowance for any defect in material or workmanship demonstrated to the satisfaction to have existed at the time of delivery or not due to misuse, negligence, or accident. If CUSTOM FIRE APPARATUS, INC. elects to repair the body, the extent of such repair shall be determined solely by CustomFire, and shall be performed solely at the Osceola, Wisconsin factory, or at an OEM approved facility. The expense of any transportation to or from such repair facility shall be borne by the purchaser and is not an item covered under this warranty.

CUSTOM FIRE APPARATUS, INC. shall not be liable for consequential damages and under no circumstances shall its liability exceed the price for a replacement body. The remedies set forth herein are exclusive and in substitution for all other remedies to which the purchaser would otherwise be entitled.

CUSTOM FIRE APPARATUS, INC. shall be given a reasonable opportunity to investigate all claims. The purchaser must commence any action arising out of, based upon or relating to agreement or the breach thereof, within twelve months from the date the cause of the action occurred.



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"Original Vehicle" requires that each of the following apparatus components match the As Delivered state of the vehicle and refers to the state of the apparatus at time of delivery including Original Apparatus Chassis, Original Apparatus Pump and Associated Plumbing, Original Apparatus Body Components and Enhancements, Original Apparatus Electrical Systems, and Original Water Tank.

#### **CORROSION PERFORATION WARRANTY - 25 YEARS**

In addition to the Paint Warranty as specified, the Stainless Steel apparatus body is to be warranted against corrosion perforation for a period of twenty five (25) years.

#### **NOX-RUST NON-HARDENING UNDERCOATING**

After final body reassembly, under body areas shall be spray coated with Nox-Rust or equal rustproofing undercoating material. Vehicle shall be Prep-Sol "solvent washed" after undercoating, to remove all overspray residues.

#### **WARRANTY - ELECTRICAL SYSTEM - 12 VOLT DC, 2-YEARS CFA CONTENT**

The Apparatus 12-volt. DC Electrical System (exclusive of chassis) shall be covered, by Custom Fire Apparatus, Inc. under normal use with normal service and maintenance, for a period of two (2) years, of which one (1) is for Parts and Labor. This warranty covers: Power Distribution System (PDC), Looms and Harnesses, Multi-Pin Connectors, and Workmanship as provided by Custom Fire Apparatus, Inc.

NOTE: Individual emergency and non-emergency electrical devices, light fixtures, audible equipment, intercoms, and motors will be covered by the prevailing manufacturer's new component warranty; superseding the above Custom Fire Warranty.

#### **10-YEAR APPARATUS PAINT WARRANTY**

The TEN (10) year paint performance guarantee will cover the areas of the vehicle as are originally finished by the apparatus body builder with the specified product for a period of TEN (10) years beginning the day the vehicle is delivered to the purchaser.

The areas as outlined on the Guarantee Certificate, will be covered for the following paint failures:

GUARANTEE INCLUSIONS:

FULL APPARATUS BODY, EXCLUDING EXTERIOR WHEELWELL PANELS

\* Peeling or delaminating of the topcoat and/or other layers of paint.



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- \* Cracking or checking
- \* Loss of gloss caused by cracking, checking, or hazing.
- \* Any paint failure caused by defective finishes which are covered by this guarantee.

All guarantee exclusions, limitations, and methods of claims are covered in the full certificate provided to the original owner.

The warranty on the chassis paint is limited to the warranty of the chassis manufacturer thereof and adjustments for the same are to be made directly with the chassis manufacturer by the Purchaser. Where painted shutter style doors are provided, the warranty is limited to that which is provided by the manufacturer thereof. Graphics are excluded from refinishing under warranty.

#### **LIFETIME SUB-FRAME WARRANTY - STAINLESS STEEL**

The specified tubular stainless steel apparatus body sub-frame is to be warranted for the vehicle's lifetime, against cracks, corrosion and rubber isolator deterioration.

#### **LIFETIME WARRANTY - WATER TANK**

The water tank, and its installed accessories, shall be covered by a "Lifetime" Warranty, against cracks, corrosion, or other failures caused by the tanks design and normal use of the same. The warranty shall be between the tank manufacturer, and the customer.

#### **TANK CRADLE STRUCTURE WARRANTY**

The tank cradle is to have a lifetime warranty, covering both structural and corrosion, as provided by body builder.

#### **LIFETIME WARRANTY - FOAM CONCENTRATE TANK**

The foam concentrate reservoir/tank, and installed accessories, shall be covered by a "Lifetime" Warranty, against cracks, corrosion, or other failures caused by the tanks design and normal use of the same. The warranty shall be between the foam concentrate tank manufacturer, and the Customer.



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#### WATEROUS 7-YEAR PUMP PARTS

The specified Waterous fire pump and Waterous fire pump (only) accessories shall carry a Waterous seven (7) year warranty covering defective parts only (not labor). NOTE: This warranty's terms and conditions shall be handled directly between the Customer and the Waterous Company.

A printed Fluid Data Field label is to be furnished, installed inside the chassis and visible from exterior ground level. Data Field is to provide the following information, **as is applicable** to the particular apparatus:

1. Engine Oil
2. Engine Coolant
3. Chassis Transmission Fluid
4. Pump Transmission Lubrication Fluid
5. Pump Primer Fluid
6. Drive Axle Lubrication Fluid
7. Air Conditioning Refrigerant
8. Air Conditioning lubrication oil
9. Power Steering Fluid
10. CAFS System Lubricant
11. Transfer Case Fluid
12. Front Tire Cold Pressure
13. Cab Tilt Mechanism Fluid
14. Transfer Case Fluid (chassis)
15. Equipment Rack Fluid
16. Generator System Lubricant
17. Chassis Manufacturer
18. OEM Production Number
19. Paint Number
20. Year Built
21. Date Shipped
22. Vehicle Identification Number (VIN)
23. Rear Tire Cold Pressure

Fluid Data label is to be permanently encased in a chrome full surround bezel.

#### WARNING LABEL: VEHICLE WEIGHT, HEIGHT, LENGTH, AND SEATING CAPACITY

A single label, with printed data field, is to be installed in the cab, in direct view of the seated Driver, to denote the following:



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#### **VEHICLE WEIGHT**

To indicate, in pounds and tons, the vehicle's total "as delivered" weight (with water and/or foam load, if so equipped), and the maximum for seated occupants (250 pounds allowance for each person).

#### **VEHICLE HEIGHT AND LENGTH**

In feet-and-inches; the overall height of the vehicle (to the highest permanent point-except antennas), and overall length of vehicle (bumper to tailboard).

#### **SEATING/OCCUPANCY**

The exact number of passengers to be carried in the chassis cab and/or crew cab.

**NOTE:** The dimensions and weight are to be "as manufactured", and the customer must revise the data plate, if they so change the height (by permanent loading and accessory equipment/device installations), and the weight by adding loose equipment, products, and supplies.

**WARNING** Label is to be permanently encased in a chrome full surround bezel.

#### **SEAT BELT WARNING LABELS**

One or more permanent labels to be installed in the cab visible to each seating position, to read: **WARNING: Occupants must be seated and belted while apparatus in in motion.** Labels are to be permanently encased in a chrome full surround bezel.

#### **HELMET WARNING LABEL**

One or more permanent labels to be installed in the cab visible to each seating position, to read: **WARNING: Occupants MUST NOT wear helmets while seated.**

Labels are to be permanently encased in a chrome full surround bezel.

#### **AIR SYSTEM PRESSURE PROTECTION VALVE**

In addition to the chassis furnished PPV, the apparatus body builder shall furnish an additional PPV to prevent the passage of air pressure, to installed accessories, such as: Air Horns, PTO or Pump Shift, Air Actuators, and other air operated accessories, whenever system air pressure is below 80.

#### **CUSTOM CHASSIS FRONT BUMPER EXTENSION**

The specified front bumper is to be extended forward of the chassis cab, using chassis frame rail extension brackets, as are furnished by the custom chassis manufacturer (OEM).



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#### **LENGTH OF BUMPER EXTENSION, AHEAD OF GRILLE**

The front bumper is to be extended 24-inches ahead of the front grille, with specified gravel shield extending from bumper flange to within 1" of the front grille.

#### **BUMPER EXTENSION HOSE WELL**

The hose well, recessed into the bumper extension is to be furnished by the Custom chassis manufacturer, as described in chassis specifications.

#### **FRONT BUMPER PRECONNECT DISCHARGE(S)**

See the PUMP MODULE segment of specifications for description of bumper discharge(s), outlet size(s) and outlet location(s).

#### **HIGH IDLE**

See CHASSIS segment of specifications, for description of: High Idle feature to be furnished.

#### **AIR INTAKE EMBER SEPARATOR**

See CHASSIS segment of specifications, for description of: Air Intake Ember Separator to be furnished.

#### **UREA FILL, AS PROVIDED BY CHASSIS OEM**

The chassis furnished Urea Fill Station, is not to be modified by body Builder.

#### **UREA RESERVOIR TO BE FILLED UPON DELIVERY**

The chassis furnished Urea Reservoir is to be "topped-off" (filled) upon the vehicle's delivery to the purchaser.

#### **FUEL FILL CUBBY WITH VENTED FILL PIPE**

Please refer to apparatus body specifications for description and location of Fuel Fill Port and Piping to fuel tank.



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#### **REMOVABLE PANEL ACCESS TO FUEL TANK**

See APPARATUS BODY segment of specifications, for description and location of provided Fuel Tank Access Panel.

#### **TIRE VALVE CORE EXTENSIONS**

Two (2) each "rigid" metal valve core threaded extensions shall be furnished, installed on the inside dual rear tires of the vehicle's rear axle. Inside dual wheels shall be positioned so that the valve core extensions protrude through the outside dual wheels, located directly across from the outside dual wheel's valve core.

#### **CHASSIS WHEEL FINISH:**

Please refer to chassis specifications for chassis front and rear wheel finish and/or wheel trim. All wheels are to remain on the vehicle, and in the original OEM "factory" finish.

#### **TIRE PRESSURE WARNING DEVICE, LED CAPS FOR 6 TIRES**

There shall be a VECSAFE LED, tire alert pressure management system furnished that shall monitor each tire's pressure. A chrome plated brass sensor shall be furnished on the valve stem of each tire for a total of six (6) tires. The sensor shall activate an integral battery-operated LED when the pressure of a tire drops 8 PSI, from the nominal pressure when the cap was installed. Removing the cap from the sensor shall indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED shall immediately start blinking.

#### **DRIVELINE JOINTS, 1710 SPICER**

The lower level driveline joints, ahead of and behind the fire pump transmission shall be minimum Spicer 1710 series or equivalent. Driveline to be dynamically balanced and equipped with Glide Coat or equivalent spline joints.

#### **MUD FLAPS**

Driver's side and passenger's side front fender and rear body wheel well mud flaps shall be furnished, made of fabric reinforced neoprene rubber, bolted to the front fender liner and rear wheel well bulkheads using stainless steel strap brackets and bolts. Mud flaps shall extend approximately 10" below running board level.



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#### **DRIVER SIDE FORWARD FACING CABINET**

A forward-facing cabinet to be furnished in rear cab interior, on driver side.

Dimensions of cabinet shall be at least 22" wide x 63" high x 18" deep.

Cabinet shall be constructed of smooth natural finished aluminum and equipped with netting to match previous trucks and 3 ea. adjustable shelves.

#### **OFFICER SIDE FORWARD FACING CABINET**

A forward-facing cabinet to be furnished in rear cab interior, on officer side.

Dimensions of cabinet shall be at least 22" wide x 63" high x 18" deep.

Cabinet shall be constructed of smooth natural finished aluminum and equipped with netting to match previous trucks and 3 ea. adjustable shelves.

#### **PAINT EXTEROR CABINET JOB COLOR OF CHASSIS CAB INTERIOR**

In lieu of the natural aluminum finish as previously specified, the exterior of the one (1) cabinet(s) shall be painted with Zolatone #20-72 Silver Gray Textured finish.

#### **LED STRIP LIGHTING**

The above specified interior cabinet lighting shall be LED "strip" lighting, one strip (1) on each side of doorway (two strips total). Light strips shall activate with opening of the door.

#### **NFPA REQUIRED TESTING OF APPARATUS NOISE LEVELS**

The completed apparatus shall be "Noise Level Tested" to be in compliance with NFPA standards in effect on the day of purchase, Noise level testing shall be of the particular apparatus, not of a similar series or model, and shall be accomplished just prior to delivery to the customer.



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#### **GOVERNOR TEST, FRAME RAIL PROTECTION & ATTACHMENT STANDARDS:**

##### **SPEED GOVERNOR TEST**

Engine limiting speed governor is to be tested, upon arrival at the Body Builder's factory for compliance with the maximum no-load engine operating speed, as determined on appropriate engine power curve sheet.

##### **SUSPENSION AND FRAME CORROSION PROTECTION**

Rear axle suspension brackets left and right sides, front and rear, are to be caulked with silicone sealant preventing build-up of road salts and moisture that may cause future corrosion of bracket-to-frame-rail attachment points.

##### **FRAME RAIL MOUNTING PROCEDURE**

All chassis frame rail mounted brackets, supports, pump flanges, and apparatus body sub-frame components are to be bolted to the frame rail sides. No holes are to be drilled in the frame flanges, only the web may be drilled. No welding will be allowed to the chassis frame, web, or flanges, ahead of the rear most spring shackles. Frame flange sandwich clamping devices (such as U-bolts) are not to be used.

#### **CHASSIS WEIGHTS AND MEASUREMENTS**

The apparatus manufacturer is to perform the following described weight recordings and suspension deflection tests, on the bare chassis, and provide resulting information to the Purchaser:

**Load Distribution NFPA 1901, 4.13.3.3:** The fire apparatus, when loaded to its estimated in-service weights, shall have a side-to-side tire load variation of no more than 7-percent of the total tire load for that axle. In order to provide baseline information for the completed apparatus' demonstration of compliance with this NFPA requirement, the following tests and measurements are to be performed:

##### **BARE CHASSIS SIDE-TO-SIDE WEIGHT RECORDINGS**

Individual weights of the bare chassis, at 4-points, are to be taken as follows:

- Driver side front tire only weight
- Passenger side front tire only weight,
- Driver side only rear tires weight
- Passenger side only rear tires weight.

These weights are to demonstrate the bare chassis side-to-side weight disparities, prior to installation of permanent apparatus components.

##### **BARE AND VARYING LOAD CHASSIS SUSPENSION DEFLECTION TEST**

Measurements are to be taken, from top of chassis frame rails-to-ground, above front axle and rear axle(s) driver side and passenger side (4-points), under the following conditions:



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Bare chassis, prior to installation of permanent apparatus components.  
With 4,000 pounds of imposed weight, at projected apparatus load centerline.  
With 8,000 pounds of imposed weight, at projected apparatus load centerline.  
With 12,000 pounds of imposed weight, at projected apparatus load centerline.

These bare and weighted measurements are to demonstrate the actual amount of suspension deflection, front and rear/side-to-side, with simulated apparatus payloads.

**NOTE; THE ABOVE WEIGHTS AND DEFLECTION RESULTS, ARE TO BE NOTED WITHIN THE COMPLETED VEHICLE DELIVERY DOCUMENTS.**

#### **NFPA RELATED FIRE SERVICE STANDARDS:**

##### **GROUND CLEARANCE STANDARDS**

Axle housings are to clear the road surface by at least 8" and an angle of departure of at least 8 degrees is to be maintained at rearmost protrusion (bumper/tailboard) of the vehicle when fully loaded.

##### **VISIBLE WARNING DEVICE AND PLACARDS**

The specified "Hazard" Indicator Light is to be mounted inside chassis cab so as to be prominently visible to the driver.

#### **CAB TILT CONTROLLED AT PASSENGER (OFFICER) SIDE**

The hydraulic powered cab tilt device is to be operated from the passenger (Officer) side of vehicle, so as to allow full view of the chassis cab as it is being raised and lowered.

#### **CAB TILT CONTROL CONSOLE, PLUG-IN COUPLER INBOARD PUMP ACCESS DOOR**

The push-button cab tilt control console, including cable, is to be shipped loose with the vehicle. The quick-disconnect coupler plug-in is to be a bulkhead fitting, and is to be located inboard the optionally specified passenger side pump inspection door.

#### **TIER-4 COMPLIANT DPF/DEF EXHAUST SYSTEM**

The original equipment chassis engine DPF/DEF (diesel particulate filter/diesel exhaust fluid) exhaust system, upstream and downstream of the passenger side outlet, shall remain unaltered (not modified) to remain in compliance with exhaust emission standards in effect at time of contract.



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#### **DEFLECTOR**

Fabricated stainless steel heat deflector plates are to be provided, where necessary, to protect body manufacturer installed components from excessive radiant heat.

#### **GATED COOLANT LINES: AUXILIARY HEATER(S)**

Engine cooling system chassis cab heater return-to-engine line shall be separated and equipped with a gate valve and .625" i.d. neoprene rubber heater hose extending to specified auxiliary heater(s). An additional gate valve is to be furnished on the auxiliary heater(s)-to-engine return line. Valves shall allow complete shut-off of the chassis cab and remote auxiliary heating system(s) that are downstream of the chassis cab heater. Valves shall prevent hot water circulation during warm weather periods and to allow shutdown should a hose or heater core leak develop.

#### **COOLANT "BOOST" PUMP**

The specified pump compartment heater core is to be piped to the engine coolant system, installation to include: 12-volt in-line Groco "free-flow" centrifugal cast bronze bodied coolant "boost" pump, parallel run of high grade coolant hoses with stainless steel screw type hose clamps.

Installation of coolant pump is to provide increased rate of coolant flow to assure maximum available chassis cab and auxiliary heater core temperatures during extreme winter conditions.

Coolant Pump is to be activated and deactivated by the optionally specified "auxiliary" heater fan switch.

#### **RADIATOR FAN ENGAGEMENT; WITH PUMP SHIFT AND OVERRIDE SWITCH**

The chassis diesel engine cooling fan's clutch shall be "engaged" when the fire pump shift to "PUMP" position occurs. Cooling fan shall return to normal operations after "ROAD" is re-selected with pump shift control.

An override switch shall be installed at the chassis dash to disable this feature during cold weather operation. This feature is limited to engines with electronically/pneumatically controlled cooling fans."

#### **WHEEL CHOCKS (Required by NFPA)**

Refer to Wheel Chocks in the NFPA Equipment Section of these specifications.

#### **WHEEL CHOCK STORAGE**

See APPARATUS BODY segment of specifications, for description of: Wheel Chock Storage to be provided.



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### **MANUALS, CERTIFICATIONS, AND DIAGRAMS, IN ENGLISH LANGUAGE**

At the time of delivery, one (1) USB Flash Drive(s) of: each of the following manuals will be provided.

1. Engine manufacturer's certified brake horsepower curve showing the maximum no-load governed speed.
2. Manufacturer's record of pumper construction details, per NFPA 1901.
3. Manufacturer's Run-In Certification with preliminary test results.
4. Pump Manufacturer's Certification of Hydrostatic Tests.
5. Pump Manufacturer's Certification of Pump Test Results.
6. The Certification of Inspection/Test of Fire Department Pumper by an Independent Third Party per NFPA 1901 standards.
7. Weight documents shall be supplied with the completed vehicle to determine compliance with NFPA section 10-1. Weights shall be for each tire or dual set of tires, so as to verify side-to-side loading, to be in compliance with NFPA section 4.12.2.3.3.
8. The complete operation and maintenance manual covering the completed apparatus as delivered including the pump, emergency lighting and siren, generator, or other furnished accessories.
9. A finalized drawing of apparatus as completed.
10. A "Delivery Manual", consisting of a 3-ring notebook type binder with reference tabs for each section, shall be furnished to include the following items: invoice copy(ies), proof of insurance, Manufacturer's Statement of Origin, acceptance forms, certifications, specifications, individual component manufacturer instructions and parts manuals, warranty forms for body, warranty forms for all major components, warranty instructions and format to be used for compliance with warranty obligations, routine service forms/publications, technical publications or training guide for major components, and apparatus body print "as built".
11. Paint numbers of all color coatings.
12. Certifications of tank(s) capacity.
13. Written load analysis of 12-volt electrical system as installed by body builder.



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A test data plate shall be provided at the pump operator's position which gives the rated discharges and pressures together with the speed of the engine as is determined by the manufacturer's test for this particular unit. Plate shall also include delivery date, pump serial number(s), original Customer, and the apparatus manufacturer's serial number.

### **FIRE PUMP SYSTEM**

#### **PUMP AND PUMP TRANSMISSION**

##### **PUMP**

A 1500 gallon per minute, Waterous model CSUC22-1500, Class A, single-stage centrifugal iron body - rear drive fire truck pump is to be furnished, mounted "mid-ship" of the vehicle immediately ahead of the compartments and water tank. The pump transmission gear ratio must allow the pump to deliver the percentage of rated capacity at discharge pressures indicated below, while the drive engine is running in its peak performance range/RPM:

- 100 percent of rated capacity at 150 pounds net pressure
- 100 percent of rated capacity at 165 pounds net pressure
- 70 percent of rated capacity at 200 pounds net pressure
- 50 percent of rated capacity at 250 pounds net pressure

##### **PUMP TRANSMISSION**

Pump transmission to be Waterous C-22, "chain-drive" style to provide smooth quiet transmission of power. Transmission "drop" shall be of proper dimension to allow for optimum driveline angles.

Extra heavy duty 2.35" x 46" involute spline pump driveline to be furnished for high torque engine applications.

##### **SEPARABLE IMPELLER SHAFT**

A separable impeller shaft will be furnished to allow removal of the pump transmission, separate from the pump body, while the pump body remains undisturbed on the apparatus

##### **ADDITIONAL FEATURES**

Additional pump features will include: dual-suction bronze replaceable impeller and impeller seal rings, stainless steel impeller shaft, grease lubricated front and oil lubricated rear roller bearings, and horizontally split main pump body, and all moving parts which come into contact with water are to be bronze or stainless steel.

##### **IMPELLER HUBS**

Flame plated impeller hubs shall be furnished along with labyrinth style seal rings.



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#### **MANUFACTURER HYDRO TEST**

The pump is to be performance tested by Waterous, at the above pressures and capacities, and also 10 minutes hydrostatically at a pressure of 600 PSI. Certification by Waterous is to be provided in delivery manual.

#### **OEM PERFORMANCE TEST**

Apparatus Manufacturer's pump performance test is to be performed after construction. Factory certification to be provided in delivery manual.

#### **PUMP TEST DATA PLATE, SINGLE-STAGE PUMPS**

The pump operator's panel will be provided with a metal plate listing the rated flow performance demonstrated together with the RPM of the engine at said pressures and deliveries, and mounted in clear view of the pump operator's panel. Test plate shall also indicate pump serial number, engine governed speed, and pump to engine gear ratio.

#### **PUMP INSTRUCTION MANUALS**

Two (2), Waterous Operator's Manuals, both in digital format, are to be provided upon delivery of the apparatus. Manuals to be pump model and serial number specific, to include but not be limited to operation procedures, maintenance (lubrication), and illustrated parts break-downs.

#### **PUMP SEALS**

"Mechanical" pump seal assemblies to be furnished, with the specified full-body centrifugal pump, self-adjusting type, maintenance free.

#### **PUMP DRAIN MANIFOLD**

Waterous manifold drain valve, with bronze body and stainless plunger shall be furnished mounted on pump transmission and operated by a push-pull cable with chrome plated T-handle control on pump panel. Drain valve shall be piped with high pressure nylon tubing, to low points of pump suction and discharge cavities to allow simultaneous draining through a single drain valve.

#### **FLAME PLATED IMPELLER HUBS**

Flame plated impeller hubs shall be furnished, on specified midship style pump, along with labyrinth style seal rings.

#### **COMPRESSED AIR AUTO PRIMING SYSTEM, "OIL-LESS", CHASSIS PROVIDED AIR**

A Trident Model #31.011.3 automatic air operated priming system shall be installed. The unit shall be of all brass and stainless steel construction and designed for fire pumps of 1,250 GPM (4,690 LPM) or



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more. Due to corrosion exposure no aluminum or vanes shall be used in the primer design. The primer shall be three-barrel design with  $\frac{3}{4}$ " NPT connection to the fire pump.

The primer shall be mounted above the pump impeller so that the priming line will automatically drain back to the pump. The primer shall also automatically drain when the panel control actuator is not in operation. The inlet side of the primer shall include a brass 'wye' type strainer with removable stainless steel fine mesh strainer to prevent entry of debris into the primer body.

#### Performance, Safety, and NFPA Compliance

The priming system shall be capable to a vertical lift to 22" of mercury and shall be fully compliant to applicable NFPA standards for vertical lift. The system shall create vacuum by using air from the chassis air brake system through a three-barrel multi-stage internal "venturi nozzles" within the primer body. The noise level during operation of the primer shall not exceed 75 Db.

#### Air Flow Requirements

The primer shall require a minimum of 13.2 cubic foot per minute air compressor and shall be capable of meeting drafting requirements at high idle engine speed. The air supply shall be from a chassis supplied 'protected' air storage tank with a pressure protection valve. The air supply line shall have a pressure protection valve set between 70 to 80 PSI.

#### Automatic Primer Control with Vacuum Gauge Panel

The 12 -Volt primer control shall be an "automatic" type, with a pump panel three-way switch to operate an air solenoid valve. The air valve shall direct air pressure from the air brake system to the primer. To prevent freezing, no water shall enter the primer valve control.

The automatic priming switch shall have three positions as follows:

- **"Prime"** – the lower position shall be a momentary "push to prime". The "Prime" position also allows the operator to "ramp" test the primer without the fire pump being engaged.
- **"Off"** -- center position
- **"Auto-Prime"** – in the upper position, a "green" LED pilot light shall be illuminated when the switch is the auto-prime position. The "Auto-Prime" operates automatically when the pump



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pressure drops below 20 PSI. The primer shuts "off" automatically when the pump pressure is re-established and exceeds 20 PSI.

#### Power Requirements

To reduce the electrical power requirements on the fire apparatus the priming system shall be air powered. The system shall not require annual tear-down and maintenance, an electric motor, lubrication, belt drive, or clutch assembly. The maximum current draw shall not exceed 0.5amps during operation.

#### AIR PRIMING SYSTEM, PUMP + THREE (3) GATED SUCTION PRE-PRIMES

Along with the Fire Pump cavity priming system, three (3) additional Push-to-Prime Air Valve Control Consoles are to be furnished and installed on the pump operator's control panel. These additional Push-to-Prime air valves are to be plumbed to following specified gated master suctions, upstream of the suction gate valves, so as to allow for "pre-prime" of respective gated suction inlet with its gate valve closed.

#### PRE-PRIME OF PASSENGER AND DRIVER SIDE MASTER AND REAR GATED SUCTIONS

In addition to the priming of the fire pump cavity, the above specified Air Prime System is to facilitate "Pre-Priming" of the Passenger Side Master Gated Suction and the Driver Side Master Gated Suction and the Rear Gated Suction.

#### STAINLESS STEEL TUBULAR PUMP SUCTION INLET AUXILIARY PIPING

Suction manifolds, where not part of and integral with the pump manufacturer's pump intake castings, shall be fabricated of "**tubular**" stainless steel ONLY, schedule 10 or schedule 40 wall thickness, type 304L.

NOTE: Due to the poor flow characteristics, a suction manifold fabricated of square or rectangular tubing with flat-mount weld spuds and/or riser pipes for auxiliary suction taps, is not an acceptable substitute to a tubular manifold.

All suction manifolds and fittings, and suction valves, tubing's, and hose line assemblies shall be pressure tested after installation.

#### PUMP FITTINGS AND "ROUND TUBULAR" 304L S/S DISCHARGE MANIFOLD

The above specified fire pump shall be furnished with high-tensile closed grain cast iron "bolt-on" left and/or right side discharge fittings (upstream of discharge valves only) and cast iron "bolt-on" left side, right side, and/or



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front/rear large diameter suction intake adapters, as furnished and flow/pressure tested by the fire pump manufacturer.

A type 304L stainless steel "**round tubular**" discharge manifold shall be furnished, flange bolted or Victaulic clamped to and easily removable from, the fire pump's large diameter discharge outlet taps.

NOTE: Due to the likelihood of high pressure deformation (regardless of wall thickness), manifolds fabricated of square or rectangular tubing's, are not acceptable

The tubular manifolds main waterway shall be commensurate in diameter to feed the quantity and size of auxiliary discharge line "branches". So as to provide unsurpassed flow characteristics, all auxiliary branch reducers shall be concentric bell reducers, and all couplings and risers shall be "coped" to conform to the radius of the larger size feed waterway. Flat-mount weld spuds and non-coped risers welded to rectangular fabrications and end plates are not acceptable.

All stainless steel welding shall be TIG, to assure proper penetration and conformity with original tubing and weld fitting outside diameters. All elbows shall be smooth sweep weld fittings.

See following specifications describing the number/size/locations of outlet gate valves to be furnished.

Heavy wall threaded pipe and pipe fittings shall be used, wherever possible, downstream of the specified side outlet and top deluge discharge valves.

All flexible discharge lines and bleeder lines, downstream of respective valves, shall be reinforced high pressure hose assemblies with stainless steel or brass end fittings.

Pressure gauge tubing lines shall be polypropylene with brass fittings.

All discharge manifolds and fittings, suction manifolds and fittings, discharge and suction valves, tubing's, and hose line assemblies shall be pressure tested before and after installation.

### **REAR SUCTION**

#### **HIGH-FLOW PUMP INTAKE ADAPTER**

The mid-ship mounted fire pump is to include a rear suction cast iron intake adapter, with stainless steel 6" i.d. ASA flanged inlet, configured for use with the optionally specified rear suction butterfly valve and upstream rear suction inlet piping. Intake adapter is to be positioned to allow for the specified rear suction piping to be low profile, overhead the chassis frame rail.



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#### **6" NST REAR SUCTION, GATED 6", REMOTE ELECTRIC CONTROLLED**

A rear gated pump suction intake to be furnished, inlet located passenger's side rear exterior of body, approximately 22" above rear tailboard. Rear suction shall include: 6" NST long handled chrome plated auto-pressure relief cap, 6" removable zinc strainer, 6" NST male inlet adapter, 5" i.d. intake pipe extending from rear inlet adapter to fire pump suction fitting (beneath water tank "T"), 5" Victaulic clamp coupler, 6" ASA flanged nipple, 6" Waterous Monarch butterfly style gate valve with "slow operating" 12-volt electric actuator and manual over-ride, remote valve control console with protected switch and position indicator lights, bronze bleeder and drain valves located where necessary, and appropriate fire pump intake fitting.

#### **GATED REAR SUCTION INTAKE RELIEF VALVE**

An Elkhart adjustable bronze rear suction intake relief valve shall be furnished installed on the rear suction piping (upstream of the rear suction valve) located inboard the exterior rear body panel. Intake relief valve to be of the pre-set adjustable bypass design, mounted so as to self-drain, and furnished with appropriate discharge piping to dump below the vehicle any excessive rear suction inlet water pressure.

#### **3.5" WATEROUS SUCTION VALVE, HIGH-FLOW**

A 3.5" full-flow Waterous tank-to-pump 1/4-turn valve to be furnished with chrome plated bronze ball, spring loaded seal assembly, and inlet hose connection. The gated suction line/piping from specified tank sump to the tank-to-pump valve shall be furnished with reusable screw-banded flexible "hump hose" connection and 4" i.d. stainless steel piping enclosed within the fire pump compartment. Tank-to-pump suction line design and size shall allow a flow rate of at least 700 GPM. (200 GPM in excess of NFPA minimum requirement).

NOTE: Plastic or PVC tubing is not an acceptable alternative to stainless steel piping.

#### **TANK-TO-PUMP CHECK VALVE**

Waterous bronze tank-to-pump suction check valve to be furnished, integral with fire pump main body casting, full-flow design to prevent obstruction of suction waterway (available on CS and CM series pumps only). Check valve shall prevent high capacity "back-flow" of water from the pump-to-tank, if the tank suction valve is inadvertently left open.

#### **TANK-TO-PUMP CONTROL, "PULL TO CLOSE"**

Specified tank-to-pump suction valve is to be remote controlled with lever style valve actuator and a manual push-pull style T-Handle twist-to-lock operator's panel control. Tank-to-pump suction valve control is to be "In-Open" and "Out-Closed".



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#### **TANK REFILL, 1.5" BALL VALVE**

One (1), gated 1.5" tank fill discharge line, extending from pressure side of fire pump to water tank is to be furnished, with: female TIPT tank fill spud located in upper portion of water tank, high pressure wire reinforced 1.5" hose with stainless steel grooved Victaulic end couplings, 1.5" Akron 8000 series bronze 1/4-turn self-locking ball style discharge valve configured for manual valve control located on the pump operator's control panel, and a nameplate to read: "TANK FILL".

#### **WATER TANK REFILL CONTROL, "PULL TO OPEN", SIDE CONTROL PANEL**

Specified water tank refill discharge valve is to be remote controlled with lever style valve actuator and a manual push-pull style T-handle twist-to-lock (for throttling) operator's panel control. Tank refill valve control is to be "In-Closed" and "Out-Open".

#### **TANK RECIRCULATING - PUMP COOLER**

One (1), gated .375" pump recirculating/cooling line, from pressure side of fire pump to water tank top to be furnished with: .375" female TIPT spud located at top front of water tank, high pressure tubing, and .375" bronze body 1/4-turn ball style valve with chrome handle located on operator's control panel. Valve is to be identified as pump cooling line.

#### **PUMP MOUNTING, FULL-BODY MID-SHIP PUMP WITH SPLIT-SHAFT**

The specified full body mid-ship pump system, with its integral split-shaft pump transmission, shall be independently mounted on a "pump house" sub-frame which itself is to be bolted to and easily removable from the chassis frame rails. The sub-frame shall consist of a two (2) each .25" Stainless Steel fabricated Z-irons which rest on the top flange of the chassis frame rails; and are sandwich bolted to the outboard chassis frame webs. This design shall provide for a "rigid" mount of the pump house, and perfect horizontal and vertical alignment with the apparatus body, running boards always remaining in alignment with apparatus body rub rails. The pump house is to be located no more than one (1) inch forward of apparatus body, and two (2) inches rearward of the chassis cab.

The fire pump shall be mounted to the pump house sub-frame with angular brackets that are solid mounted one side of pump, casting opposite side (as recommended by pump manufacturer), so as to prevent imposing of torque/twisting loads on the full body pump castings. Pump mount brackets are to be placed at the same relative angle as engine/transmission and the rear axle.

Pump mounting brackets and pump house sub-frame shall be primer painted and urethane painted to match pump or chassis frame rails.



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#### **DRIVELINE, SPICER 1710/1760 SERIES**

Spicer 1710 series driveline components to be furnished to facilitate pump installation, components shall include: slip stub shafts, slip yokes, and cross and bearings to be compatible with pump end yokes and chassis driveline. Modified drivelines shall be high speed balanced.

#### **PNEUMATIC PUMP SHIFT**

Pump transmission's pneumatic power shift mechanism and the chassis furnished Pump Shift Console are to be plumbed to the chassis air system, downstream of the Pressure Protection System, using high pressure nylon tubing and brass fittings.

The OK to Pump indicator lights, inside the chassis cab and at the pump operator's control panel are to be furnished with circuit protection, wired to and activated by the vehicle transmission position and pump shift signals.

#### **PUMP MANUAL SHIFT OVERRIDE**

The pneumatic pump shift is to be furnished with a single mechanical MANUAL override control located on the driver's side of the vehicle. Pump pneumatic shift override control is to allow for manual shifting of the pneumatic air cylinder, allowing the pump to be shifted into "Pump" and "Road" positions manually.

#### **PUMP PNEUMATIC SHIFT OVERRIDE, LOCATION**

The pneumatic pump shift override control is to be located on the driver's side of the vehicle: \_\_\_\_\_.

#### **LOCATION FOR PUMP SHIFT CONSOLE**

The specified remote Pump Shift Console is to be located: on the driver's side switch panel, to the right of the steering wheel, above the engine tunnel facing outboard towards driver.

#### **PUMP TEST, PRELIMINARY AND FINAL CERTIFICATION TESTING**

After a "preliminary" apparatus factory performance test, the above specified pump test/certification is to be performed by apparatus manufacturer and "witnessed" by an independent third party as per NFPA 1901 pumping standards, with proper serialized certification provided upon apparatus delivery.



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#### **FIRE PUMP DATA PLATE**

A metal engraved or stamped Pump Data Plate shall be furnished, installed on the operator's control panel, or on the driver side pump panel. Data plate shall be furnished by the fire pump manufacturer, and is to include information as to the pump's model designation, date of manufacture, capacity @ test pressure, serial number, and transmission ratio where appropriate, and maximum static and operational pressure.

#### **FIRE PUMP TEST DATA PLATE**

An indelibly printed Pump Test Data Plate shall be furnished, installed on the operator's control panel, or on the driver side pump panel. Test Data plate printed with information collected during the final operational test, as run by the prime contractor. Pump Test Data shall include, but not be limited to: apparatus date of manufacture, apparatus model designation, apparatus manufacturer's serial number, apparatus manufacturer's production number, engine governed speed, fire pump brand, fire pump model, fire pump capacity, fire pump transmission ratio, and the fire pump performance and engine speed at full capacity (150-PSI), overload capacity (165-PSI), 2/3 capacity (200-PSI), and 1/2 capacity (250-PSI).

#### **PRESSURE GOVERNOR AND MONITORING DISPLAY**

Fire Research PumpBoss model PBA500-A00 pressure governor and monitoring display kit is to be provided and installed. The kit is to include a control module, pressure sensor, and cables. The control module case is to be waterproof and have dimensions not to exceed 7.25" high by 3-3/4" wide by 4.0" deep. Inputs for monitored information shall be from a J1939 data bus or independent sensors. Outputs for engine control shall be on the J1939 data bus or engine specific wiring.

#### **FUNCTION INDICATORS**

The following continuous displays shall be provided:

- CHECK ENGINE and STOP ENGINE warning LEDs
- Engine RPM; shown with four daylight bright LED digits more than .5" high
- Engine OIL PRESSURE; shown on an LED bar graph display in 10 PSI increments
- Engine TEMPERATURE; shown on an LED bar graph display in 10 degree increments
- BATTERY VOLTAGE; shown on an LED bar graph display in 0.5 -Volt increments
- PSI / RPM setting; shown on a dot matrix message display
- PSI and RPM mode LEDs
- THROTTLE READY LED.

#### **MESSAGE DISPLAY**

A dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator.



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The program shall store the accumulated operating hours for the pump and engine, previous incident hours, and current incident hours in a non-volatile memory.

Stored elapsed hours shall be displayed at the push of a button.

It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Engine RPM
- High Transmission Temperature
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Battery Voltage
- Low Engine Oil Pressure
- High Engine Coolant Temperature

### **CONTROL MODES**

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A control knob that uses optical technology shall adjust pressure or RPM settings. It shall be 2" in diameter with no mechanical stops, a serrated grip, and have a red idle push button in the center.

### **THROTTLE INDICATOR**

A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle.

### **PRESSURE CONTROL**

In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator.

### **ENGINE RPM CONTROL**

In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase.

The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 PSI. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

### **LOCATION**

Location of the governor and monitoring display shall be at pump operator's panel.



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#### **ENGINE INSTRUMENTATION**

The engine instrumentation is to be included in the specified fire pump pressure control system "engine governor". Instrumentation shall be integral with the Governor Control.

#### **PUMP OVERHEAT PROTECTION**

One (1), Waterous Overheat Protection Manager (OPM) model #82516-1B, thermal relief style valve to be furnished, installed on the two .5" tapped holes located near the center discharge area of the pump. The OPM consists of a valve that automatically opens when the water in the pump reaches 140 degrees and a warning light located on the pump operator's panel that is triggered by a thermal switch when the water in the pump reaches 180 degrees. The warning light acts as an additional protection device if the temperature inside the pump keeps rising although the valve is open. The OPM valve and switch are both mounted on the two (2) .5" tapped holes located near the center discharge area of the pump. Discharge shall be "to ground".

The warning light and test button shall be mounted to a heavy polished casting that is mounted to the pump operator's panel.

#### **SELF BLEEDING SUCTION CAPS, NFPA PRESSURE RATED**

The optionally specified "threaded" suction caps shall be the VLH Class-1, Trident or equivalent which incorporates a cross-machined thread design to automatically relief stored pressure in the line during un-capping.

#### **SELF-BLEEDING DISCHARGE OUTLET CAPS, AND ELBOWS, NFPA PRESSURE RATED**

Where specified, the rocker lug discharge caps and outlet elbow extensions are to be VLH, Class-1, Trident, or equivalent which incorporates a cross-machined thread design to automatically release stored pressure in the line during uncapping/unthreading.

#### **BUMPER DISCHARGE**

##### **FRONT BUMPER 2" PRECONNECT DISCHARGES**

One (1) front bumper 2" gated discharges to be furnished with: 1.5" NST male outlet x 2.0" inlet 90 degree discharge swivel, Auto-Drain hose line bleeder valve, 2" i.d. stainless steel pipe or wire reinforced hose with 2" stainless end fittings, 2.5" Waterous 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly (located inside pump compartment), and configuration for a manual valve control located on the pump operator's control panel.



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#### **BUMPER SWIVEL DISCHARGE OUTLET - BOTTOM OF HOSE WELL**

The specified front bumper extension pre-connect discharge outlet(s) shall extend through the bottom floor of specified hose tray, to allow for left-to-right "swivel" hose deployment.

#### **FIRE PUMP MODULE, MIDSHIP OF APPARATUS, INDEPENDENT OF THE BODY**

#### **PUMP ENCLOSURE, MID-SHIP S/S MODULAR - DRIVER SIDE CONTROLS**

A pump compartment/module is to be furnished, located "mid-ship" of the vehicle, designed to accommodate driver side pump controls and instrumentation. The pump module is to be "fully enclosed", using fabricated sheet metal panels on top, sides, front, and rear. The modular style pump enclosure is to be approximately 82" side-to-side, located no more than 1" ahead of the apparatus body, and 2" rear of the chassis cab.

The entire pump compartment module is to be separate from the chassis cab, and apparatus body, rigidly mounted to the chassis frame rails, and designed to allow independent twisting "no-contact" movements of the cab, pump module and apparatus body. The pump module is to remain rigid to the chassis frame rails, and fire pump itself is to have a flex-mount system as approved by the fire pump manufacturer. The rigid module mount system is to prevent unnecessary movement of the pump compartment, and the resulting miss-alignment of running boards and body rubrails.

#### **STAINLESS STEEL CONSTRUCTION**

Pump compartment is to be of all-bolted construction, fully enclosed, constructed of type 304 brushed stainless steel. Due to the entire pump house module being constructed of scuff-resistant non-painted brushed stainless steel, neither polished stainless steel nor aluminum treadplate overlays are required for scuff protection.

#### **BLEEDER VALVE AND DRAIN VALVE CONTROL PANELS**

The specified passenger side outlet and inlet bleeder valve controls shall be located immediately above the running board, installed on a brushed stainless steel horizontal full width bolt-on riser panel. The specified driver side outlet and inlet bleeder valve controls, and master pump drain control shall be located immediately above the running board, installed on a brushed stainless steel horizontal full width bolt-on riser panel.

#### **REMOVABLE ACCESS PANEL**

Passenger side of pump module shall incorporate brushed stainless steel removable mid-section panel, removal of which allows for pump inspection, service, and maintenance.

The removable side panel shall be located above, and interlocking with the passenger side bleeder control panel. The panel shall be held in place by a minimum of four (4) chrome plated quick release trigger latches, and



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removable side panel shall also be provided with two (2) chrome plated grab handles to aid in removal and re-installation of the panel.

Passenger side removable panel opening shall be full width of the pump compartment/module by at least 30" tall.

#### **ACCOMMODATIONS FOR FORWARD SPEEDLAY HOSEBEDS**

The forward portion of the pump module, extending ahead of the driver side controls, is to provide adequate space to accommodate any optionally specified single or multiple stacked pre-connect hose bed(s). The specified transverse Hosebed(s) to be 82" long (side-to-side).

#### **OVERHEAD PUMP ENCLOSURE**

The upper portion of the pump module is to accommodate any optionally specified recessed dunnage area, or accessory equipment installations. This area is to be above the pump controls and plumbing, inboard of the instrument panel, ahead of the apparatus body and water tank.

#### **RUNNING BOARDS**

Driver's and passenger's side pump panel running boards to be furnished, extending from rear of specified lower chassis cab steps to front side body compartment corners.

Running boards shall be at least 10" deep, bolted to and easily removable from the lower pump compartment module. Running boards shall be fabricated of tailboard matching material, provided with non-slip grip-pattern top step surface.

**Running boards shall be "in-line" with the specified lower cab steps and body side rubrails.**

#### **SIDE PUMP INSPECTION DOOR**

One (1) lift-up style horizontally hinged pump compartment interior access/inspection door shall be furnished on opposite side of control panel.

Door shall be equipped with top mounted polished stainless piano hinge, two (2) bottom trigger latches, and two (2) underside telescoping air cylinder props to hold in the open position.

#### **REMOVABLE FRONT PANEL - PUMP ENCLOSURE**

If installed on cab over chassis, a removable pump interior compartment access panel is to be furnished, on front vertical surface of pump compartment, approximately 52" wide x 30" high.



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Removable panel shall hook at top and secure along sides and bottom with push button trigger latches.

#### **SPEEDLAY HOSEBEDS**

##### **SPEEDLAYS**

Three (3) Speedlay trays shall be provided within forward-most body compartments, positioned one above the other.

Speedlay openings shall be overlaid with polished stainless steel to provide smooth surface around hose.

Unless otherwise specified, discharge swivels shall be placed above hose, located within 6" of compartment back wall.

Trays constructed of 1/2" poly and sized to accommodate 200' of hose in two columns. 1-3/4" hose is considered 3-1/2" flat width. 2-1/2" hose is considered 4-1/2" flat width. A total of three (3) trays provided.

#### **4-WAY HOSE ROLLER GUIDES, TWO (2) ASSEMBLIES PER HOSE CAVITY**

Three (3) sets of chrome and polished stainless steel 4-way "encapsulated" hose roller assemblies are to be furnished outboard of the hose reel, providing roller guide for booster hose deployment. Each roller set shall consist of eight (8) chrome corner brackets, four (4) vertical, and four (4) horizontal 1-.25" diameter stainless steel roller tubes with end bearings. Width of encapsulated opening shall be the same as or greater than the width between hose reel discs.

#### **TOP SPEEDLAY 2.5" VALVE, 2.5" NST OUTLET**

One (1), top stacked speed-lay 2.5" gated discharge to be provided with: 2.5" NST male outlet x 2.5" inlet 90 degree bronze or stainless steel overhead discharge swivel, hose line bleeder valve, 2.5" i.d. stainless steel pipe or wire reinforced hose with 2.5" stainless end fittings, 2.5" Waterous 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly with lever valve handle (located inboard pump panel) configured for a manual valve control located at the pump operator's control panel.

#### **MIDDLE (OR ADJACENT REARWARD) SPEEDLAY, 1.5" NST, 2.5" VALVE and PIPING**

One (1), middle stacked (or adjacent rearward) speed-lay 2" gated discharge to be provided with: 1.5" NST male outlet x 2.5" inlet 90 degree bronze or stainless steel overhead discharge swivel, hose line bleeder valve, 2" i.d. stainless steel pipe or wire reinforced hose with 2" stainless end fittings, 2.5" Waterous 1/4-turn discharge valve



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with chrome plated ball and spring loaded self-adjusting seal assembly (located inside pump compartment), and push-pull chrome "twist-to-lock" discharge control handle with recessed color coded nameplate located on the pump operator's control panel.

#### **BOTTOM SPEEDLAY 2.5" VALVE, 1.5" NST OUTLET**

One (1), bottom stacked speed-lay 2" gated discharge to be provided with: 1.5" NST male outlet x 2" inlet 90 degree bronze or stainless steel overhead discharge swivel, hose line bleeder valve, 2" i.d. stainless steel pipe or wire reinforced hose with 2" stainless end fittings, 2.5" Waterous 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly with lever valve handle (located inboard pump panel) configured for a manual valve control located at the pump operator's control panel.

#### **SPARE SPEEDLAY CARTRIDGE**

Three each, additional "spare" poly speedlay cartridges shall be provided, to match the above specified hose beds.

#### **SPEEDLAY HOSE RESTRAINT, VINYL END FLAP**

The open ends of the specified speedlay hose bed cavities shall be equipped with a single piece vinyl coated nylon "flap", equipped with two (2) reinforced bungie fasteners sewn to flap cover and bolted aluminum slide-extrusion with beaded bottom seam. Design shall allow for convenient removal for replacement. Vinyl end flaps shall be designed to secure (during travel) the packed hose and attached nozzle.

#### **COMPARTMENTS BELOW SPEEDLAYS, ENCLOSED WITH HINGED DOOR**

Two (2), lower level recessed "cubby" style compartments shall be furnished below speedlays. Enclosed compartments are to be constructed of brushed stainless steel, with wash out floor level.

Compartments shall be as wide as speedlays x 14" tall x 15" deep beyond pump panels.

Each compartment is to be provided with a pump panel matching brushed stainless steel hinged door with: forward vertical polished stainless steel piano hinge, door-stop chain, and one (1) chrome or stainless steel latch.

#### **PUMP PANELS RECESSED TO ACCOMMODATE INLET & OUTLET FITTINGS**

The driver and passenger side exposed pump panel areas are to be "recessed" inboard of the compartmented body sides, of a depth to accommodate the pump discharge outlet and suction inlet fittings and closures, without exceeding the apparatus body or pump module running board widths.



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#### **PUMP MODULE RUNNING BOARDS, STAINLESS STEEL**

Pump panel running boards are to be furnished, driver side and passenger side, extending from the front corners to the rear corners of the pump module.

Running boards are to be at least 10" deep, with 3" high double brake fabricated perimeter flanges, bolted to and easily removable from the bottom of pump module sides. Front and rear stainless steel underside running board support brackets are to be furnished, designed for a top surface load of at least 500-pounds.

Running boards are to be fabricated of 12-gauge type 304 #4-brushed finished stainless steel, provided with a laser cut-puncture fabricated non-slip NFPA approved grip-pattern on the entire top step/walk surface.

#### **SIDE CONTROL PANEL**

##### **MIDSHIP PUMP DRIVER SIDE CONTROLS**

The pump operator's control panel shall be located on driver's side "midship" of vehicle. So as to permit operation of the pump from one central location, all Electric and Manual style gated discharge valve controls, and Air or Manual style remote gated suction controls are to be mounted on this side facing pump operator's control panel.

Where specified, mechanical pump actuator rods, rotating and/or push-pull, are to be heavily cadmium or zinc plated solid cold roll steel, provided with adjustable threaded clevis joints or swivel ball joints and chrome plated brass handles or black phenolic control knobs. Where electric remote discharge controls are specified, they are to consist of individual consoles with rocker or push-button style switch and multiple position indicator lights.

The upper portion of the driver side pump control panel is to accommodate the specified "opening" instrument panel, the middle portion to accommodate the gate valve and major pump controls, and the bottom portion is to accommodate the inlet and outlet bleeder controls and (where specified) the gravity style master drain control.

##### **SIDE MOUNT VALVE CONTROLS, ELECTRIC CONTROL CONSOLE(S)**

Two Waterous Electric Discharge Valve Control Console(s) are to be located on the side-mount pump operator's panel.

##### **DISCHARGE CONTROL NAME PLATES**

The specified individual discharge control color coded identification name plate's nomenclature is to, describe: the physical location of outlet, the size of hose to be attached, and the type of discharge. Where an outlet is Foam Capable, the name plate is to so describe.



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#### **DISCHARGE OUTLET NAME PLATES**

Individual Discharge Outlet name plates are to be provided adjacent to the outlet or hose bed. Outlet name plates are to be of the same color as the discharge valve control name plate, pressure instrument name plate, and the bleeder valve control name plate.

#### **SIDE MOUNT VALVE DISCHARGE CONTROLS**

Eight (8) Innovative Controls brand chrome plated, side mount push-pull controls, with ergonomically designed chrome plated T-handles, and encapsulated UV-resistant printed color-coded (ILO engraved) verbiage labels shall be furnished.

#### **DISCHARGE CONTROL NAME PLATES**

The specified individual discharge control engraved color coded identification name plate's nomenclature shall describe: the physical location of outlet, the size of hose to be attached, and the type of discharge. Where an outlet is Foam Capable, the name plate shall so describe.

#### **DISCHARGE OUTLET NAME PLATES**

Individual Discharge Outlet name plates are to be provided adjacent to the outlet or hose bed. Outlet name plates are to be of the same color as the discharge valve control name plate, pressure instrument/gauge name plate, and the bleeder valve control name plate.

#### **THE SPECIFIED MANUAL PUSH-PULL DISCHARGE VALVE CONTROLS ARE FOR:**

  1   each, Passenger Side Discharges

  2   each, Rear Discharges

     each, Hose Bed Discharges

  1   each, Driver Side Discharges

     each, Deluge Discharge

     each, Hose Reel Discharges

  1   each, Bumper Discharge



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  3   each, Pre-Connect Discharges: Speed-Lays / Cross-Lays

       each, Rear Pre-Connect Discharges

NOTE: See Water Tank Refill Discharge for Control Style

#### **COLOR CODED DISCHARGE AND SUCTION NAME PLATES**

The name plates, as provided for identification of the following devices, are to be permanently printed on a colored background with nomenclature as specified above, attached with permanent adhesive, NOTE: Name plates are not to be screwed or riveted in position.

Color matching name plates are to be provided for: Suction Inlet, Suction Control (when gated), Suction Bleeder, Discharge Outlet, Discharge Control, Discharge Pressure Instrument, and Discharge Bleeder Control.

#### **PUMP SYSTEM ELECTRICAL**

All pump compartment wiring for specified 12-volt electrical equipment is to be suitably protected inside heat resistant vinyl, forming one or more wiring harness(es).

All 12-volt switches, relays, terminals, connectors, and wiring to have a direct current rating of 125% of maximum current for which the current is protected. All wiring terminals to be closed barrel style, mechanically crimped, and insulated

#### **PUMP MODE TRANSMISSION LOCK-UP**

Vehicle electronic automatic transmission to be "signaled" by shifting of the fire pump into pump gear, so as to activate transmission "Lock-Up" mode (direct drive). An automatic transmission shift selector position detent or transparent removable shield is to be provided to prevent unintentional movement of the shift selector during pumping operations.

#### **PUMP MODULE WIRING SCHEMATICS**

Vehicle Specific wiring information is to be provided for this particular apparatus "as configured" upon completed delivery of the same. Information is to be in a drawing format, describing origination and termination connections and functions.

#### **DEACTIVATE ENGINE COMPRESSION BRAKE - WITH PUMP SHIFT**

Specified engine compression brake shall be automatically deactivated with the shifting of the pump transmission into "Pump Gear".



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#### **TILT OUT GAUGE PANEL**

Gauge panel with bottom hinge and top quick release latches shall be provided above pump controls.

A light hood shall be provided.

Lighting shall be LED strip style.

#### **PUMP MODULE EXTERIOR LIGHTING, ACTIVATION**

Any optionally specified light fixtures and/or strips are to be 12-volt LED, activated with park brake unless otherwise noted.

#### **PASSENGER SIDE PUMP PANEL LIGHTING**

One (1) On Scene Solutions, model "Night Sticks" LED light strip is to be provided, with multiple 12-volt LED elements. Light strip is to be located: one (1) overhead the passenger (curb) side pump panel illuminating the suction inlets and discharge outlets.

#### **FABRICATED STAINLESS STEEL LIGHT SHIELD**

Passenger side fabricated stainless steel light shield is to be provided, designed to illuminate downward and inward, prevent outboard glare, and protect the specified light strip. Light shield is to be full width of the passenger (curb) side pump panel.

#### **PAINT PUMP MODULE SINGLE JOB COLOR**

The exterior surfaces (except control and gauge panels) of the fire pump compartment are to be painted single job color.

#### **RECESSED OPEN CAVITY: MONITOR and FOLDING/TELESCOPING LIGHT TOWER**

A recessed dunnage (open well) cavity is to be furnished, top of pump compartment ahead of hose body between pump compartment side panels. Dunnage cavity is to be of the appropriate size, at least 96" side-to-side x 50" front-to-rear x 18" deep, so as to accommodate the optionally specified lift-up/fold-down telescoping Light Tower and deluge monitor. Cavity to be equipped with stainless steel structural fabrications to support the light tower, and aluminum treadplate floor sections that are bolted in place and removable for repair access to pump and plumbing. At least two (2) floor drain ports are to be provided, with vinyl tubes extending to beneath the pump module.



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### **OVERHEAD RISER PANELS, TO ACCOMMODATE EXTRA LARGE DUNNAGE AREA**

Driver side and Passenger side longitudinal riser panels (upper pump module sides) are to be provided, creating a full body width (100") cavity for the optionally specified extra large dunnage area.

Outboard and inboard side riser panels are to be constructed of type 304 stainless steel, located immediately above the optionally specified pump panel access doors, spanning between and "flush" with the front and rear full height pump module corners. The top flange of the longitudinal panels and the module corners are to extend inboard a minimum dimension, forming a mating surface for the optionally specified dunnage cavity.

The outboard horizontal riser panels are to provide a vertical mounting surface for any optionally specified upper level side facing emergency lighting or scene lighting.

### **TRANSVERSE OPEN DUNNAGE CAVITY: EXPANDED BEYOND PUMP MODULE WIDTH**

A recessed dunnage (open well) cavity is to be furnished, "transverse" overhead the mid ship fire pump system, in the uppermost portion of the stand-alone pump module. Dunnage cavity is to be of the maximum available front-to-rear length, depth (above pump panel door headers), and at least 72" side-to-side width. Dunnage cavity is to "extend" beyond the pump module's outboard side panels, an equal distance, designed to provide adequate floor space for the optionally specified cavity stored accessories. Cavity to be equipped with removable reinforced floor sections, and floor drain tubes extending to beneath the pump module. Removal of mounted accessories and floor sections is to allow top access to fire pump and its piping.

### **PUMP TEST DATA LABEL**

The pump control panel is to be provided with a printed data field indicating the rated flow at 150, 200 and 250 test pressures, together with the RPM of the engine at those pressures and deliveries. Test Label is to be mounted in clear view of the pump operator's position, as per NFPA 1901 compliance.

Test label is to also indicate the following information:

Pump Make and Model

Pump Capacity

Apparatus Date of Manufacture

Apparatus Model Designation

Apparatus Serial Number

Apparatus Production Number

Engine Governed Speed

Pump Transmission Gear Ratio (to Engine)

Data field is to be permanently encased in a chrome full surround bezel.



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### **GATED INLET WARNING LABEL(S)**

## **WARNING:**

Death or serious injury might occur if proper operating procedures are not followed. The pump operator as well as individuals connecting supply or discharge hoses to the apparatus must be familiar with water hydraulics hazards and component limitations.

### **ENGINE COOLER/HEAT EXCHANGER CONTROL VALVE**

Operation of the custom chassis supplied cooling system heat exchanger is to be controlled from the pump control panel and labeled to identify its operation. Discharge feed and suction return piping between the fire pump and heat exchanger are to be high pressure lines with copper fittings. The piping is to be installed so as to drain back (down) to the fire pump, without low points, when pump master drain is "open", in order to prevent freezing. Pressure line (from pump discharge) is to be gated, with the valve control located on the pump operator's control panel, with instructional nameplate.

### **INTAKE RELIEF VALVE, 2.5" BRONZE**

An Elkhart bronze pump suction intake relief valve shall be furnished, installed inside pump compartment, flange bolted or threaded to suction cavity of the fire pump. Valve to be of the pre-set (to 125 PSI) adjustable bypass design, to dump below the vehicle excessive inlet water pressure. Relief valve to be accessible for future adjustment of bypass pressure.

### **INTAKE RELIEF VALVE, WITH DISCHARGE OUTLET HOSE**

The specified fire pump suction manifold Intake Relief Valve's outlet is to terminate with a 2.5" i.d. flexible hose, outlet located at side of apparatus, away from the fire pump operator's location.

### **HEAT ENCLOSURE, STAINLESS STEEL**

A removable heater casing is to be furnished, completely enclosing the underside of the fire pump compartment module. Heater casing side and end panels are to be fabricated entirely of type 304 brushed finish stainless steel, bolted to and easily removable from the bottom perimeter of the pump module. So as to allow maximum ground clearance, the heater casing shall of the minimum depth required to enclose the pump transmission, horizontal



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engine exhaust system, and all pump accessories. Two (2) individual stainless steel slide-out bottom panels are to be furnished, criss-cross reinforced with drain holes and ¼-turn butterfly clamp latch, removal of which allows for inspection of and access to the fire pump and chassis components, NOTE: A center bottom slide-out panel brace shall be furnished, off-set to one side so as to not obstruct the pump transmission lubricating fluid drain.

#### **HOT WATER TYPE HEATER, 30,000 BTU**

A 30,000 BTU Badger R-255-0 or equivalent hot water type automotive heater to be furnished and installed inside the compartment, above the manifolds. Heater installation to include: gated engine coolant feed and return lines, dual 12-volt electric fans, and fan control located on operator's control panel.

#### **PUMP HEATER HOSES AND CLAMPS**

The hot water heater core feed and return lines shall be minimum .75" i.d. rubber construction.

Hose clamps are to be screw-to-tighten style, constructed of non-corrosive material.

#### **ANODE, PUMP SUCTION MANIFOLD**

One (1) sacrificial zinc anode shall be furnished in the water pump inlet manifold, to protect the pump from corrosion.

#### **PUMP SUCTION INLETS**

Following specified pump manifold inlets shall be equipped with zinc die cast screens so as to provide cathode protection for pump waterways.

All intakes shall be furnished with suitable closures capable of withstanding 500 PSI, threaded caps shall be chrome plated brass, rocker lug 3" and smaller, long handled larger than 3".

#### **SUCTION INLET VALVE STANDARDS (WHERE OPTIONALLY SPECIFIED)**

Following optionally specified 3" or larger gated intakes (except the tank-to-pump intake) shall include a remote controlled valve mechanism that shall not permit changing the position of the flow regulating element of the valve from full close to full open, or vice versa, in less than 3 seconds. Where air type actuators are employed, they shall include dual (2-each) adjustable needle valve restrictors, bench set/tested, so as to facilitate the slow



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movement. Where manual gear or electric gear style actuators are employed, the crank or motor shall regulate movement speed.

#### **SHORT SUCTION TUBE**

The specified side pump suction inlet(s) shall be of minimum length to allow for exterior stacking of adapters or pre-connected hose.

#### **INLET BLEEDER VALVES**

Where specified, each gated intake shall be equipped with a bleeder valve located inside pump compartment (inside rear compartment-for rear suction), upstream gate valve, with remote bleeder control in close proximity to the intake. The gated inlet bleeders shall consist of: .75" high pressure flexible hose assemblies extending between suction valve and bleeder valve, .75" cast bronze or stainless steel bleeder valve, exterior bleeder valve control handle, and an engraved or printed identification label. Bleeder controls for side gated inlets are to be located below the inlet, in a single row immediately above the running board/floor level. Bleeder controls for optionally specified rear inlets are to be located below the inlet, above the tailboard level. The bleeder valves shall be Innovative Control, "lift-handle" style equipped with chrome plated lever control handles, which are in the down position when closed.

#### **HOSE THREADS**

Where specified, all screw-on/off threads shall be NST (National Standard Threads), all "sexless" couplings shall be Storz.

#### **PUMP DISCHARGE OUTLET CONTROLS AND ACTUATORS**

All discharge valves shall have operating controls and actuators that allow the valve to be positioned incrementally from closed to full open, and locked in any selected position. Each valve control is to be adjacent to its respective pressure instrument.

Each of the specified 3" diameter or larger discharge valves are to have an operating mechanism which shall not permit changing the position of the flow regulating element of the valve from full close to full open, or vice versa, in less than 3 seconds.

#### **DISCHARGE OUTLET BLEEDERS**

Each of the following specified gated discharges shall be equipped with a "discharge outlet bleeder". The outlet bleeders shall consist of: .75" high pressure flexible hose assemblies extending between discharge valve and bleeder valve, .75" cast bronze or stainless steel bleeder valve mounted interior of pump compartment (inside rear compartment-for rear discharges) with pressure gauge port, exterior bleeder valve control handle, and color coded



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(to match corresponding discharge outlet) engraved or printed identification label. Bleeder controls for side discharges are to be located below the outlet, in a single row immediately above the running board/floor level. Bleeder controls for optionally specified rear discharges are to be located below the outlet, above the tailboard level. The bleeder valves shall be Innovative Control, "lift-handle" style equipped with chrome plated lever control handles, which are in the down position when closed.

#### **HOSE THREADS**

Where specified, all screw-on/off threads shall be NST (National Standard Threads), all "sexless" couplings shall be Storz.

#### **SUCTION INTAKE VALVE(S) -OPERATOR'S REMOTE PANEL CONTROLLER(S)**

Three (3) each of the optionally specified 12-volt "electrically" actuated large diameter Butterfly or Jumbo Ball style "Suction" gate valves are to be controlled, using its respective pump operator's panel mounted Controller, with Valve Position Indicator.

#### **WATEROUS ELECTRIC SUCTION VALVE CONTROL CONSOLE(S)**

Three (3) Waterous Electric Suction Valve Control Console(s) are to be located on the pump operator's panel.

#### **WATEROUS ELECTRIC VALVE "OPEN/CLOSE" CONTROLLERS ARE TO BE USED FOR:**

\_\_1\_\_ each, Passenger Side Gated Master Suction

\_\_1\_\_ each, Rear Gated Suction

\_\_1\_\_ each, Driver Side Gated Master Suction

#### **2-1/2" DISCHARGE VALVES ARE TO BE WATEROUS BRAND**

All 2.5" discharges are to be equipped with Waterous brand, ball style, in-line valves. The valves shall be equipped with chromium-plated bronze ball and a "spring-loaded" seal assembly, no lubrication or regular maintenance shall be required on the Waterous valves.

#### **3-1/2" DISCHARGE VALVES ARE TO BE WATEROUS BRAND**

All 3.5" discharges are to be equipped with Waterous brand, ball style, in-line valves. The valves shall be equipped with chromium-plated bronze ball and a "spring-loaded" seal assembly, no lubrication or regular maintenance shall be required on the Waterous valves.



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#### **DISCHARGE VALVES - 12VDC ELECTRICALLY ACTUATED WATEROUS**

All specified Waterous brand 3-1/2" discharge valves are to be "electrically actuated" equipped with respective operator's panel mounted valve controller. Valve controller is to have a spring-loaded Open-Close rocker switch, LED Open and Closed lights, and five (5) individual LED valve position indicator lights.

#### **PASSENGER SIDE SUCTION(S)**

##### **6" GATED SUCTION, 6" NST CAPPED, REMOTE ELECTRIC CONTROLLED**

A Passenger's side gated 6" pump suction intake to be furnished with: 6" NST male inlet adapter, 6" removable zinc strainer, 6" extension nipple (extending through pump panel), 6" ASA threaded flange, bronze bleeder valve located inboard pump panel with remote control handle, 6" Waterous Monarch butterfly style gate valve with "slow operating" 12-volt electric actuator and manual over-ride, remote valve control console with protected switch and position indicator lights, and appropriate interior pump compartment 6" ASA flanged pump intake fitting. Inlet shall have minimum extension outboard the pump panel to allow for pre-connected inlet appliance or hose.

##### **SUCTION NST x STORZ REDUCING ADAPTER AND CAP**

One (1) each 6" NST long handled swivel female by 5" Storz swivel lightweight "elbow" adapter, with 5" Storz cap and cable retainer.

##### **SUCTION INTAKE RELIEF VALVE - INBOARD PASSENGER SIDE PUMP PANEL**

One (1) Elkhart adjustable bronze suction intake relief valve(s) shall be furnished, enclosed inboard the passenger's side pump panel. Intake relief valve to be located upstream of the above specified butterfly style gate valve, "sandwiched" between gate valve and specified external inlet fitting. Intake relief valve shall be mounted so as to self-drain and dump excessive suction inlet pressure below the pump compartment.

##### **OFFICER SIDE 2.5" GATED SUCTION, 2.5" NST PLUGGED, CONTROL AT INLET**

A passenger's side gated 2.5" pump suction intake is to be furnished, with: 2.5" NST male chrome plated rocker lug plug type cap with chain, 2.5" NST chrome plated rocker lug swivel female with internal strainer, bronze bleeder valve (inboard pump panel) with exterior control, 2.5" full flow Akron 8000 series 1/4-turn ball style self-locking bronze suction valve (located inboard pump panel) with through-the-panel model TS control arm,



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"OPEN" and "CLOSED" nameplates, and 2.5" i.d. stainless pipe or flanged casting between the valve and the pump intake manifold.

#### **DRIVER'S SIDE SUCTION(S)**

##### **6" GATED SUCTION, 6" NST CAPPED, REMOTE ELECTRIC CONTROLLED**

A Driver's side gated 6" pump suction intake to be furnished with: 6" NST male inlet adapter, 6" removable zinc strainer, 6" extension nipple (extending through pump panel), 6" ASA threaded flange, bronze bleeder valve located inboard pump panel with remote control handle, 6" Waterous Monarch butterfly style gate valve with "slow operating" 12-volt electric actuator and manual over-ride, remote valve control console with protected switch and position indicator lights, and appropriate interior pump compartment 6" ASA flanged pump intake fitting. Inlet shall have minimum extension outboard the pump panel to allow for pre-connected inlet appliance or hose.

##### **SUCTION NST x STORZ REDUCING ADAPTER AND CAP**

One (1) each 6" NST long handled swivel female by 5" Storz swivel lightweight "elbow" adapter, with 5" Storz cap and cable retainer.

##### **SUCTION INTAKE RELIEF VALVE - INBOARD DRIVER SIDE PUMP PANEL**

One (1) Elkhart adjustable bronze suction intake relief valve(s) shall be furnished, enclosed inboard the driver's side pump panel. Intake relief valve to be located upstream of the above specified butterfly style gate valve, "sandwiched" between gate valve and specified external inlet fitting. Intake relief valve shall be mounted so as to self-drain and dump excessive suction inlet pressure below the pump compartment.

##### **DISCHARGE PIPING ANODE, 1 EACH**

One (1) each, replaceable threaded or flange bolt-on zinc anode plug is to be furnished and installed in the discharge piping of the fire pump to assist in protecting the pump and piping from electrolysis.

#### **PASSENGER SIDE DISCHARGE(S)**

##### **PASSENGER SIDE 2.5" DISCHARGE**

One (1), passenger's side 2.5" gated discharge to be furnished with: 2.5" NST chrome plated brass rocker lug cap with chain, 2.5" NST male x 2.5" NST rocker lug swivel female 45 degree chrome plated brass elbow outlet extension, 2.5" NST male chrome plated brass outlet adapter, .75" bleeder valve and hose assembly, 2.5" i.d.



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stainless steel pipe nipple, 2.5" Waterous 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly (located inside pump enclosure), and push-pull chrome "locking-style" discharge control located on the pump operator's control panel.

#### **PASSENGER SIDE LARGE DIAMETER DISCHARGE**

One (1), passenger's side 4" gated discharge to be furnished with: 2.5" NST chrome plated brass rocker lug cap with chain, 2.5" NST male x 5" Storz lightweight adapter, 5" Storz x 4" NST swivel female 30-degree elbow lightweight outlet adapter, 4" NST Male x 4" NPT Female adapter, 4" i.d. extension nipple (extending through pump panel), bronze bleeder valve located inboard pump panel with remote control knob adjacent to discharge outlet, 3.5" Waterous "ELECTRIC ACTUATOR OPERATED" 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly (located inside pump compartment), operator's panel mounted valve control console with spring loaded open/close and appropriate cast iron pump discharge fitting.

#### **REAR DISCHARGE(S)**

##### **REAR PASSENGER SIDE 2.5" DISCHARGE**

One (1), rear (passenger's side) 2.5" gated discharge to be provided with: 2.5" NST chrome plated brass rocker lug cap with chain, 2.5" NST male x 2.5" NST rocker lug swivel female 30-degree chrome plated brass elbow extension, 2.5" NST male chrome plated brass outlet adapter, .75" bleeder valve with exterior remote control, 2.5" i.d. stainless steel pipe or wire reinforced hose assembly with 2.5" stainless end fittings, 2.5" Waterous 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly (located inside pump compartment), and push-pull chrome "twist-to-lock" discharge control handle with recessed color coded nameplate located on the pump operator's control panel.

##### **REAR DRIVER SIDE 2.5" DISCHARGE**

One (1), rear (driver's side) 2.5" gated discharge to be furnished with: 2.5" NST chrome plated brass rocker lug cap with chain, 2.5" NST male x 2.5" NST rocker lug swivel female 30-degree chrome plated brass elbow extension, 2.5" NST male chrome plated brass outlet adapter, .75" bleeder valve with exterior remote control, 2.5" i.d. stainless steel pipe or wire reinforced hose assembly with 2.5" stainless end fittings, 2.5" Waterous 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly (located inside pump compartment), and push-pull chrome "twist-to-lock" discharge control handle with recessed color coded nameplate located on the pump operator's control panel.

#### **DRIVER'S SIDE DISCHARGE(S)**

##### **DRIVER SIDE 2.5" DISCHARGE**

One (1), driver's side 2.5" gated discharge to be furnished with: 2.5" NST chrome plated brass rocker lug cap with chain, 2.5" NST male x 2.5" NST rocker lug swivel female 45 degree chrome plated brass elbow outlet extension,



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2.5" NST male chrome plated brass outlet adapter, .75" bleeder valve and hose assembly, 2.5" i.d. stainless steel pipe nipple, 2.5" Waterous 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly (located inside pump enclosure), and push-pull chrome "locking-style" discharge control handle located on the pump operator's control panel.

#### **DELUGE DISCHARGE**

#### **DELUGE DISCHARGE LOCATION**

The specified Deluge Discharge outlet shall be located above the "midship" fire pump module.

#### **MONITOR SUPPORT BRACKET**

A stainless steel fabricated monitor support bracket is to be furnished, located beneath the top of pump module, designed to prevent movement of the monitor/deluge device throughout the range of movement and flow capacity. Support is to be bolted in position and removable so as to allow for disassembly of the deluge discharge. In addition to the monitor support, the underside of surrounding deck plating is to be reinforced with channel steel brackets to support the weight of two (2) firefighters.

#### **TOP DELUGE DISCHARGE - ELECTRIC OPERATED VALVE**

One (1), top (above pump/body) gated deluge discharge to be furnished with: 3" riser outlet thread/flange, 3" i.d. stainless steel stationary riser pipe, .75" bronze "auto-drain" valve located immediately downstream of gate valve, 3.5" Waterous "ELECTRIC ACTUATOR OPERATED" 1/4-turn discharge valve with chrome plated ball and spring loaded self-adjusting seal assembly (located inside pump compartment), operator's panel mounted valve control console with spring loaded open/close toggle switch and "OPEN/MULTIPLE-TRANSITION/CLOSED" indicator light.

NOTE: The exterior deluge riser piping (and flange where provided) shall be covered, fully enclosed, with polished 4-way aluminum treadplate cylindrical shroud.

#### **ELKHART COBRA EXM - REMOTE WIRELESS CONTROLLED MONITOR**

One (1), Elkhart Cobra EXM deluge with electronically operated monitor to be furnished, mounted on specified deluge discharge outlet. Cobra EXM to be equipped with: SM-1250E 1250 GPM automatic nozzle and stream shaper, W.E.T. (Wireless Electronic Technology) transmission function for rotation and elevation, panel mounted vehicle-powered pump panel control, and pump operator's panel mounted bracket for hand-held remote W.E.T. radio transmitter control. The W.E.T. hand held remote radio transmitter shall be furnished, along with required batteries.



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#### **ELKHART EXTENDER, ELECTRIC ACTUATED - 18"**

One (1), Elkhart 12-volt electric linear actuator operated "Extender" telescoping deluge riser mount to be furnished, with Victaulic inlet and side wall clamp kit. Extender to be installed on specified deluge riser piping, designed to vertically elevate the specified deluge monitor 18" above the retracted position. Flow capacity of the Extender shall be up to 1250 GPM.

#### **TRANSVERSE SLEEVE FOR SINGLE LONG BOARD**

A vertical transverse Single (1) Long Board storage "sleeve" compartment to be provided, located overhead the transverse cavity compartment, forward of pump operators panel. Sleeve compartment is to be fabricated of stainless steel, approximately 4" wide x 20" high x transverse width between driver and passenger side pump panels.

Hose bed cover material shall be red in color.

#### **FOAM SYSTEM, DIRECT DISCHARGE**

##### **SINGLE AGENT FOAM SYSTEM**

The following specified Direct Discharge Foam System shall be of the "single agent" type, with features and accessories as per the following:

##### **PLACARDS, SINGLE AGENT FOAM SYSTEM**

A foam system piping schematic placard, for "single agent" system, shall be furnished, located adjacent to the system's control console. A foam system rating placard shall also be furnished, for the particular model and brand, also located adjacent to the control console. Placards shall be provided by foam system manufacturer, chrome plated cast metal.

All foam capable discharge controls shall be identified, with colored engraved nameplates to read: **FOAM**

##### **FOAMPRO 2001 SINGLE AGENT FOAM SYSTEM:**

The apparatus shall be equipped with a "single agent" FoamPro 2001, electronic, fully automatic, variable speed, direct injection, discharge side foam proportioning system. The system shall be capable of handling Class A foam concentrates. The foam proportioning operation shall be based on direct measurement of water flows, and remain consistent within the specified flows and pressures. The system shall be equipped with a digital electronic control display, suitable for installation on the pump panel.



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Incorporated within the control display shall be a micro-processor that receives the input from the flowmeter, while also monitoring foam concentrate pump output, comparing values to ensure that the operator preset proportional amount of foam concentrate is injected into the discharge side of the fire pump.

A paddle wheel type flowmeter shall be installed in the discharge line to the specified "foam capable" discharges.

The digital computer control display shall enable the pump operator to perform the following control and operation functions for the foam proportioning system:

1. Provide push-button control for foam proportioning rates from 0.1% to 9.9% in 0.1% increments.
2. Show current gallon per minute water flow rate.
3. Show total gallons of water discharged, during and after foam operations are completed.
4. Show total gallons of foam concentrate consumed.
5. Simulate flow rates for manual operation.
6. Perform set-up and diagnostic functions for the computer control microprocessor.
7. Flash a "low concentrate" warning when the foam concentrate tank(s) run low.
8. Flash a "no concentrate" warning and shut the foam concentrate off, preventing damage to the pump, should the foam tank go empty.
9. Foam Strainer, in suction line, removable

A 12-volt electric motor driven positive displacement foam concentrate pump, rated up to 2.6 GPM, with operating pressures up to 250 psi (maximum psi of 400) shall be installed in a suitable location near the apparatus pump hose.

A pump motor electric driver (mounted to the base of the pump) shall receive signals from the computer control display, and power the .5 horsepower electric motor directly coupled to the concentrate pump in a variable speed duty cycle to ensure that the correct proportion of concentrate preset by the pump operator is injected into the fire stream.

The motor driven foam pump system shall be mounted to a fabricated stainless steel platform, strategically located within the fire pump module, such that the pump is below the level of the foam cell.



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### MASTER FOAM MANIFOLD

A flanged bolt-on or victaulic grooved stainless steel pump discharge foam manifold is to be furnished, for use with the specified direct discharge injection foam system. Discharge manifold is to include a 4" i.d. stainless steel dual plate spring loaded check valve, fitting tap for foam injection line, fitting tap for flow sensor, bottom fitting tap for the remote manifold drain valve, and multiple taps for use with discharge valves designated as foam lines. Discharge foam manifold is to be of adequate size/capacity to handle flows not exceeding 1100 gallons per minute.

NOTE: Purchaser must designate which of the above specified Discharge Outlet Connections are to be Foam Capable, not to exceed 1100 gallons per minute total flow. NFPA Discharge Flow Rates are designated in Table 16.7.1.

### FOAM MANIFOLD DRAIN

A .75" quarter-turn bronze drain valve, with chrome plated control handle and recessed name tag, is to be furnished, located on a side pump panel immediately above the running board/rubrail level. Manifold drain line is to extend from a bottom tap on the foam manifold, with positive "gravity-drain" to the panel mount drain valve, assuring complete drainage of the manifold downstream of its check valve and upstream of the foam capable discharge valves.

### CLASS - "A" FOAM CAPABLE OUTLETS, 1100-GPM FOAM MANIFOLD CAPACITY

The following individual discharge outlets are to be Class A foam capable:

\_\_\_ each, Passenger Side (select \_\_\_ -2.5", \_\_\_ -4") Discharge(s)

\_\_\_ each, Rear (select \_\_\_ -2.5", \_\_\_ -4") Discharge(s)

\_\_\_ each, Rear Pre-Connect (select \_\_\_ -1.5", \_\_\_ - 2.5") Discharge(s)

\_\_\_ each, Driver Side (select \_\_\_ -2.5", \_\_\_ -4") Discharge(s)

\_\_\_ 3 \_\_\_ each, Pre-Connect (select \_\_\_ 2 \_\_\_ -1.5", \_\_\_ 1 \_\_\_ -2.5") Discharge(s): Speed-Lays / Cross-Lays

\_\_\_ each, Hose Reel 1" Discharge

\_\_\_ 1 \_\_\_ each, Bumper (select \_\_\_ -2.5", \_\_\_ -4") Discharge(s)



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### **FOAM LEVEL GAUGE/INDICATOR**

### **FOAM RESERVOIR, CLASS-A FOAM CONCENTRATE**

Class-A foam cell to be furnished, located interior of specified non-metallic water tank, totally separate from baffled water cavities. Refer to Water Tank for full description and capacity of the Class-A foam cell.

### **FOAM LEVEL -TANKVISION, FOR CLASS-A FOAM**

One (1), FRC, "TankVision" foam tank level indicator to be furnished with: weatherproof encapsulated high intensity LED light indicator, 30-ft sensor cable extension for foam tank level indicator, tank level sensing probe, and protected wiring loom. Foam tank level indicator to be mounted on pump control panel. Tank level sensing probe to be located in front of specified foam tank.

### **ON-BOARD 12-VOLT "POWERED" FOAMPRO REFILL SYSTEM**

To increase safety of firefighter personnel, the apparatus shall be equipped with an electronic, automatic, concentrate refill system. System shall operate independently of the foam proportioner allowing simultaneous use. Refill operation shall not require apparatus or fire pump to be running. The system shall be capable of handling Class A foam concentrates, emulsifiers, gels and decontamination concentrates. The apparatus shall be plumbed from the externally accessed intake/flush ports to the concentrate cell, located internal of the specified water tank. External fill and flush connections to be quick-connect, cam-lock type. Internal piping to incorporate check valves to prevent backflow. Concentrate tank inlet shall be positioned to minimize agitation. The refill operation shall be based on direct measurement of concentrate level in tank. System must be capable of automatically stopping when cell is full and include a manual override feature. The system shall be equipped with an electronic control suitable for installation on the pump panel. Incorporated within the control shall be a microprocessor that receives input from the system while controlling foam concentrate pump output. An all bronze three-way valve shall be included to allow the operator to flush system after use. Valve control, intake and flush ports shall be located within corresponding panel plate.

The system shall enable the operator to perform the following control/operation functions and status indicators for the refill operation:

- a) Provide push-button start/stop control of foam refill
- b) Solid green light advises operator concentrate cell is full
- c) Flashing green indicates system is running
- d) Green light off, system off
- e) Allow override of "full tank" condition
- f) Provide a means to flush the pump and intake piping



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System shall include a 12-volt electric motor driven, positive displacement concentrate pump. Pump shall deliver minimum flow of 10 gpm (37.8 L/min) @ 20 psi, with all types and brands of concentrates currently utilized in fire apparatus. Pump body to be of all bronze construction and other wetted components and piping to be constructed of non-corrosive materials. The system will draw a maximum of 38 amps @ 12 VDC. A pump/motor solenoid (mounted to the base of the pump) shall receive signals from the computer control display and power the .5 hp (0.4 Kw) electric motor directly coupled to the concentrate pump. The system shall receive readings when the concentrate tank is full and stop operation to prevent overflow.

Components of the complete refill system shall include:

- g) Operator control and display with Weather-Pac connectors
- h) Refill/flush quick-connect cam-lock fittings and cap
- i) Check valves
- j) Pump/motor assembly and solenoid
- k) Strainer
- l) Tank level switch
- m) Three-way fill/flush valve
- n) Stainless steel pick-up wand and 6 feet of reinforced suction hose, 1 in diameter to allow maximum flow
- o) Panel placards

An installation and operation manual shall be provided, along with a one-year limited warranty by the manufacturer.

### **FOAM CAPABLE DISCHARGES: IDENTIFICATION**

All of the specified "Foam Capable" discharges shall have red graphical identification tags or their nametags and/or data plates marked: **FOAM**, in addition to the other discharge nomenclature.

### **PUMP OPERATOR'S INSTRUMENTS AND GAUGES**

#### **AIR HORN SWITCH - PUMP GAUGE PANEL, RED MOMENTARY ROCKER STYLE**

A weatherproof momentary rocker style RED switch is to be furnished on the pump gauge panel, with a nametag to read: "AIR HORN." Switch is to activate the optionally specified high capacity DC air horn solenoid.

### **COLOR CODED DISCHARGE NAMEPLATES: NOMENCLATURE IN ENGLISH**

Discharge name plates and/or control diagrams are to be permanently engraved into colored media or encapsulated color coded printing, as specified below, Name plate colors are to match the designated color of the individual outlets and pressure instruments.

Suction name plates are to be of the same single color, contrasting to the discharge colors



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The name plate's nomenclature is to identify: physical location, size of hose to be attached, and type of discharge.  
Example: REAR PASSENGER SIDE 2.5" PRECONNECT DISCHARGE

Color matching name plates are to be provided for: Discharge Outlet (or Hose bed Pre-Connect), Discharge Control, Discharge Pressure Instrument, and the Discharge Bleeder Control.

Apparatus locations are to be identified as: FRONT (forward facing), PASSENGER SIDE (curb side facing), REAR (rearward facing), and DRIVER SIDE (street side facing).

On sides of apparatus, left-to-right locations are to be identified as FORWARD and REARWARD.

At rear of apparatus, locations are to be identified as INBOARD, OUTBOARD, OR CENTER.

NOTE: The terms LEFT and RIGHT are not to be utilized, unless specifically instructed to do so by customer.

### **MASTER GAUGES, VACUUM (INTAKE) AND PRESSURE (DISCHARGE)**

#### **NO-SHOK LIQUID FILLED GAUGES**

Master pump intake and pump discharge pressure indicating devices shall be located within 8" of each other, edge to edge, with the intake (suction) pressure indicating device to the left of the pump discharge pressure indicating device.

A 4" diameter NoShok compound style pressure gauge to be furnished, registering 0 x 600 psi, "**enhanced**" black numerals on white background. Gauge needle shall have a "bright orange" tip for improved visibility. Gauge to be piped to discharge volute of fire pump, equipped with a black permanently engraved identification nameplate installed below the gauge, to read: "PUMP DISCHARGE."

A 4" diameter NoShok compound style pressure gauge to be furnished, registering -30 x 400 psi, "**enhanced**" black numerals on white background. Gauge needle shall have a "bright orange" tip for improved visibility. Gauge to be piped to suction volute of fire pump, equipped with a black permanently engraved identification nameplate installed below the gauge, to read: "PUMP SUCTION."

#### **TEST GAUGE PANEL**

A test plug assembly to be furnished, installed on specified gauge panel adjacent to respective pump suction and pump discharge gauge. Test plugs to be piped to pump suction cavity and discharge cavity using high pressure clear nylon tubing with brass fittings.



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#### **INDIVIDUAL DISCHARGE GAUGES, 2.5" DIAMETER**

Ten (10), 2.5" diameter NoShok compound style discharge pressure gauges to be furnished, registering 0 x 400 psi, "enhanced" black numerals on white background. Gauge needle shall have a "bright orange" tip for improved visibility. Gauges to be located in a uniform manner no more than 6" from its respective discharge valve control.

Each gauge and respective discharge valve control to be equipped with color coded permanently engraved identification nameplate to describe numerical sequence, location, type and size of outlet.

All above specified pressure gauges to be analog style, liquid filled, vibration dampened, and capable of operations to -40 degrees F. Master gauges and individual discharge pressure gauges shall have a 7 year warranty.

The specified engine monitors, pump suction and discharge gauges, and individual gated discharge pressure gauges shall be installed on the specified gauge panel.

Pressure gauges to be piped to the individual discharge valves and pump suction and discharge volutes using high pressure clear nylon tubing with brass fittings.

#### **CAST METAL PRESSURE GAUGE SURROUND BEZELS**

The specified individual discharge pressure gauges shall be encased/surrounded by chrome or polished trim bezels. Color coded placards/name tags are to be recessed into the gauge trim bezels.

#### **THE 1**

#### **INDIVIDUAL DISCHARGE PRESSURE GAUGES ARE TO BE ASSIGNED TO:**

\_\_ 2 \_\_ each, Passenger Side Discharges

\_\_ 2 \_\_ each, Rear Discharges

\_\_ 1 \_\_ each, Driver Side Discharges

\_\_ 1 \_\_ each, Deluge Discharge

\_\_ 1 \_\_ each, Bumper Discharge

\_\_ 3 \_\_ each, Pre-Connect Discharges: Speed-Lays / Cross-Lays



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#### **CAST METAL PRESSURE GAUGE SURROUND BEZELS**

The specified individual discharge pressure gauges shall be encased/surrounded by chrome or polished trim bezels. Color coded placards/name tags are to be recessed into the gauge trim bezels.

#### **TANK LEVEL INDICATOR(S)**

##### **WATER LEVEL - TANK VISION**

One (1), FRC, "Tankvision" WLA300-A00 water tank level indicator to be furnished with: weatherproof encapsulated high intensity LED light indicator, tank level sending unit, and protected wiring loom. Water tank level indicator to be mounted on pump control panel. Tank level sensing unit to be located front of specified water tank to properly sense water capacity.

##### **TANK INDICATOR REMOTE LIGHT DRIVER, FRC SYSTEM**

Fire Research TankVision model WLA290-A00 remote light driver is to be furnished and installed, for use with the Chassis Manufacturer supplied Light Strip(s).

The driver shall provide four (4) separate signal outputs to the optionally specified remote tank level lights. The driver is to signal .25, .5, .75, and full tank liquid levels. When power is applied the driver is to run a test and cycle each remote light on and off. When the tank is less than .25 full the driver is to "blink" the .25 level light.

The remote light driver is to receive input information over a single wire from the specified Fire Research tank level primary indicator, which is mounted on the pump operator's panel.

##### **WHELEN PSTANK2 WATER TANK LEVEL STRIP-LITE SYSTEM**

Two (2) Whelen Strip-Lite PSTANK2, water tank level status lights shall be furnished, with green/blue/amber/red colors. Lights to be signaled by the specified tank level driver, with information provided by the specified primary level indicator. Red .25-level lights to flash, other colors to be steady illumination when activated. Strip-Lites to be furnished, one on each exterior side of apparatus, as specified.

##### **TANK INDICATOR REMOTE LIGHT DRIVER, FRC SYSTEM**

Fire Research TankVision model WLA290-A00 remote light driver shall be furnished and installed. The driver shall provide four (4) separate signal outputs to the optionally specified remote tank level lights. The driver shall signal .25, .5, .75, and full tank liquid levels. When power is applied the driver shall run a test and cycle each remote light on and off. When the tank is less than .25 full the driver shall "blink" the .25 level light.



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The remote light driver shall receive input information over a single wire from the specified Fire Research tank level primary indicator, which is mounted on the pump operator's panel.

#### **4-COLOR TANK LEVEL LIGHT FIXTURE LOCATION**

The above specified water tank level multiple color Light Strips are to be located: One (1) Driver uppermost Chassis Cab side, One (1) Passenger uppermost Chassis Cab side.

#### **POLYPROPYLENE WATER TANK -- LIFETIME WARRANTED - 750 WATER/20 FOAM**

The apparatus shall be equipped with a polypropylene thermoplastic water tank, with isolated foam cell. The water tank's capacity is to be 750 US gallons, and the foam cell's capacity is to be 20 US gallons.

The tank body and end bulkheads shall be constructed of .5" thick, polypropylene, nitrogen-welded and tested inside and out. Tank construction shall conform to NFPA standards.

The transverse and longitudinal .375" thick swash partitions shall be interlocked and welded to each other as well as to the walls of the tank. The partitions shall be designed and equipped with vent holes to permit air and liquid movement between compartments.

The .5" thick cover shall be recessed .375" from the top of the side walls. Hold down dowels shall extend through and be welded to both the covers and the transverse partitions, providing rigidity during fast fill operations. Drilled and tapped holes for lifting eyes shall be provided in the top area of the water tank.

The bottom of the tank shall be secured within the specified rubber lined "full perimeter cradle", design to be in accordance with the tank manufacturer's requirements.

The water fill tower shall be designed, sized and located as required by the needs of the tank. The .5" thick polypropylene fill and overflow tower shall be equipped with a hinged lid and a removable polypropylene screen.

An overflow tube shall be installed within the fill tower and internally piped with large diameter schedule 40 PVC pipe through the tank, exiting behind the vehicle's rear axle.

The water tank sump shall be a minimum of 10" x 10" x 3" deep and located on the bottom of the booster tank. There shall be a 4" i.d. schedule 40 polypropylene tank suction pipe from the entrance of the tank (adjacent to and inline with fire pump) to the tank sump. The tank drain and clean out shall be 3" NPT schedule 80 female flange with plug, located in the bottom of the tank sump.



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#### **FOAM CELL**

One (1), 20-gallon foam cell shall be furnished as a component of specified water tank. The foam cavity shall include a fill stack with lift-up cover and latch assembly. The foam fill tower shall be surrounded by a metal fabrication, providing separation from the hose bed. The foam lid shall have a 2" diameter screw-on vent cap. Two (2) 1" TIPT female spuds shall be furnished in the exposed end wall of the foam reservoir/cell, for use with foam concentrate liquid line(s) of the specified foam system.

#### **WARRANTY**

The booster tank shall have a lifetime warranty as provided by the tank manufacturer.

#### **FOAM TANK DESIGN STANDARDS**

The non-corrosive foam tank is to meet (or in the case of multiple tanks, Tanks are to meet) applicable sections of NFPA standards.

The foam concentrate tank is to be provided with sufficient wash partitions so that the maximum dimension perpendicular to the plane of any partition shall not exceed 36 inches. The swash partition(s) are to extend from wall to wall and cover at least 75 percent of the area of the plane of the partition.

The foam concentrate tank is to be provided with a fill tower or expansion compartment having a minimum area of 12 square inches and having a volume of not less than 2 percent of the total tank volume. The fill tower opening is to be protected by a completely sealed air-tight cover. The cover is to be attached to the fill tower by mechanical means. The fill opening is to be designed to incorporate a .25 inch removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped directly to the bottom of the tank to minimize aeration without the use of funnels or other special devices.

The foam tank fill tower is to be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent must not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent is to be protected to prevent foam concentrate from escaping or directly contacting the vent at any time. The vent is to be of sufficient size to prevent tank damage during filling or foam withdrawal.

A color coded label or visible permanent marking that reads "FOAM TANK FILL" is to be placed at or near any foam concentrate tank fills opening.

An additional label is to be placed at or near any foam concentrate tank fill opening that specifies the type of foam concentrate the system is designed to use. Any restrictions on the types of foam concentrate that can be used with the system are also be stated, and a warning message that reads "WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM."



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The foam concentrate tank outlet connection is to be designed and located to prevent aeration of the foam concentrate and shall allow withdrawal of 80 percent of the foam concentrate tank storage capacity under all operating conditions with the vehicle level.

#### **FOAM RESERVOIR DRAIN**

One (1) foam reservoir drain is to be furnished, each consisting of a 1/4-turn ball style bronze or stainless steel .75" i.d. valve, stainless steel piping, and threaded spud in reservoir. Reservoir drain is to be located in the pump module, and is to drain liquid concentrate to below the chassis frame.

#### **POLY TANK MANUFACTURER**

The specified water tank shall be manufactured by **United Plastics Fabrication (UPF)** or comparable tank manufacturer.

The tank warranty is to be provided by poly tank manufacturer, copy of the warranty must be included in the delivery documents.

#### **POLY TANK DATA PLACARD**

The Apparatus is to be provided with a poly tank data placard. The Data Placard is to include the following fields of information:

MAXIMUM FILL PRESSURE: PSI  
MAXIMUM FILL RATE: GPM  
DATE OF MANUFACTURE  
TANK SERIAL NUMBER  
TRUCK #

WATER CAPACITY: Gallons  
FOAM CAPACITY: Gallons-A

#### **WATER TANK SUPPORT STRUCTURE**

**The specified water tank is to be nested into a full perimeter mounting "picture frame" style support structure consisting of 2" x 2" x .25" thick 304 grade stainless steel angle.** The front of tank is to be equipped with a full width .25" thick front base plate. All stainless cradles are to be wire-feed welded to the specified stainless steel apparatus body sub frame transverse tubings.

Structure is to be tank-specific, and shall provide support in the areas and locations specified by the tank manufacturer.



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**All mating areas between tank and structure are to be lined with 60 DURO rubber cushion material, .5" thick on horizontal and front surfaces and .25" thick on sides and back vertical surfaces.**

Structure is to be mounted to chassis frame rail side walls by hardened carriage bolts. The use of threaded rod plates or U-bolts will not be considered adequate.

#### **TANK CRADLE STRUCTURE WARRANTY**

The tank cradle is to have a **lifetime warranty**, both structurally and corrosion-free, as provided by body builder.

#### **L-SHAPE TANK: FOR REDUCED HEIGHT HOSEBED**

The specified tank is to be L-shaped, with forward portion of vessel higher than the rear portion, so as to allow for the apparatus body hose bed (located above rear portion of water tank) to be of maximum depth. The forward water tank section is not to extend above the apparatus body sides, and is to be covered with the specified material.

The tank bottom is to be T-shape, to allow for rear wheel clearance and maximum lower side compartment depth.

#### **WATER TANK PASS-THROUGH(S) FOR DISCHARGE PIPING**

The water tank shall have two (2) 4" i.d. pass-through PVC sleeve(s) extending horizontally through the length of the water tank, to allow passage through the tank of discharge piping. Sleeve(s) shall be in line with the exit location of the rear discharge(s).

#### **RECTANGULAR SHAPE TANK**

The specified tank is to be of a conventional rectangular shape, located beneath the main hose bed, rearward of the front body transverse cross-panel.

The tank bottom is to be T-shape, to allow for rear wheel clearance and maximum lower side compartment depth.

#### **TANK NOTCHED FOR RECESSED TANK-TO-FIRE PUMP SUCTION PLUMBING**

The front bottom of tank is to be "notched" to accommodate recessing of the tank-to-fire pump suction piping. The notched area is to accommodate the specified hump hose coupling, and allow for a forward most location of the water tank within the apparatus body cavity.



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#### APPARATUS HOSE BODY AND THREE (3) SEGMENT COMPARTMENTATION

The Body is to be designed and configured as a fully compartmented Pumper Fire Apparatus, with forward segment enclosed side cabinets, middle segment rear wheel enclosures with overhead cabinet(s) where optionally specified, rearward segment side cabinets, and rear centerline cabinet ahead of rear tailboard. In addition to the cabinets (compartments) the Pumper Apparatus Body is to encapsulate the specified water and/or foam tank, with a large Main Hose Bed overhead.

#### COMPARTMENTED BODY CONSTRUCTION MATERIALS and FABRICATION:

##### **FABRICATION MATERIALS**

The apparatus body compartments shall be fabricated using a combination of 12-gauge thickness and 14-gauge thickness, type 304 smooth sheet ASTM A240 stainless steel, with #4-polish RA52 surface finish. All structural sheet metal fabrications shall be of 12-gauge material thickness, including, but not limited to: side and rear lower level compartment floors, wheelwell outer panels, rear body corners, and hose bed risers.

Other specified interior compartment shelving, trays, and shelving tracks shall be fabricated of smooth aluminum, of designated thickness, and shall have a machine sanded finish.

The specified 4-way treadplate apparatus body components shall be type 3003 "Brite" aluminum C-102 or equal pattern treadplate, NFPA approved no-slip diamond on step and walk surfaces.

##### **PRECISION MACHINING AND FABRICATION**

All individual apparatus body fabricated components are to be: computer designed for repeatable tolerances, precision computer control machined for superior cut edge quality, and computer control machine fabricated for assembled parts accuracy

##### **FASTENERS:**

All apparatus body screw type fasteners shall be stainless steel "low profile" button socket head cap screws with stainless steel hex "Ny-Lok" threaded nuts designed to prevent loosening. Size of fasteners, .25" minimum, and their spacing must provide for maximum structural integrity and no leakage in flanged areas between fasteners. Any necessary exterior exposed nut fasteners shall be polished stainless steel or chrome plated "acorn" covering fastener threads. **NOTE: Hex head, truss head, Phillips pan head, or other large profile style fasteners shall not be used for assembly of fabricated sheet metal components. Additionally, there are to be NO .187" fasteners of any style used for structural applications.**

#### CONSTRUCTION METHODS:

All individual fabricated body components are to be assembled with removable fasteners for ease of modifications and repairs. Exterior compartment and hose body fabrications must be free of all projections which might injure personnel or fire hose. NOTE: Where "nibbled" or other non-continuous non-smooth cutting methods are used to machine the body material, all edges must be reworked/filed for injury prevention and improved appearance.



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**The described construction methods are to ensure easy disassembly of the apparatus body in the event of damage or need for future modifications. Apparatus designs or construction methods which do not allow for disassembly and removal of major fabricated components are not to be considered "equal" to this construction method, NOTE: metal bar shapes, tubular structures and/or extrusions are not to be utilized in the construction of the apparatus body; metal fabrications with integral flanges are to provide the needed structural integrity.**

Specified upper level side compartments shall have fabricated vertical door jambs located above wheel well enclosure, separating forward/upper level wheel well/rear compartment areas. Door jambs are to be bolted to sweep-out threshold portion of upper level compartment opening and to the underside of overhead compartment roof fabrication, easily removable so as to allow future modifications to door opening size.

For maximum cubic footage of compartments, the lower portion of the interior forward side compartments shall be recessed into within 4-inches of the chassis frame rail depth, both driver's side and passenger's side of the apparatus body. Recessed areas to be full width of interior compartment, at least 30" high, occupying entire underbody area beneath the outboard portion of the tank.

#### **BODY FRONT AND REAR CORNERS:**

The front & rear driver side and passenger side body corners are to be of a style as specified below. The body corners are to have full height vertical front, rear and side facing surfaces, and integral compartment door jambs.

#### **SWEEP OUT COMPARTMENT FLOORS:**

Driver's side, passenger's side, and rear compartments shall be equipped with "sweep/wash-out" floors, which are raised at least 1" above the compartment door opening threshold and exterior rub rail. All running board/tailboard level side compartment door thresholds shall extend outboard, below the compartment doors, with a minimum 3" flange-down (flush with body sides) and 1" return-in, providing structure for mounting of the specified rub rail material. Door thresholds shall be bolted to and removable from the interior raised compartment floors.

Upper level compartment floors, located above rear wheel well housings, are to be "sweep/wash-out" design, fabricated of body material matching smooth sheet material. Upper level compartment door bottom threshold shall be integral with the rear wheel well outer panel, positioned at least 1" below the interior compartment floor surface, and lined with mirror finish stainless steel for doorway protection.

#### **FRONT COMPARTMENT CORNERS, SQUARE SHAPE**

The driver side and passenger side front body corners are to have a 90-degree "square" shape. Each corner is to be a single piece fabrication, extending to compartment roof top, with integral inboard body mating flange (allowing for removal), and outboard vertical door jamb.



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#### **REMOVABLE INTERIOR COMPARTMENT CORNER ALUMINUM WIRE COVERS**

The front and rear interior compartment shall have removable panels installed to cover body wiring.

Interior compartment corner wire covers are to be constructed of natural finish sheet aluminum.

#### **CONSTRUCTION FEATURES:**

Wheel well trim shall be furnished as specified below, bolted in position and easily replaceable, surrounding driver's side and passenger's side rear body "radius" wheel well cut-outs.

#### **STAINLESS STEEL WHEEL WELL LINERS**

A removable sheet stainless steel circular underside wheel well liner shall be furnished, driver and passenger side wheel well housings. Liners shall be bolted in position and easily removable to allow for underside access to the optional wheel well panel mounted accessories, such as: warning light fixtures, fuel fill piping, air bottle containers, etc.: Removal of liners shall also provide convenient access to the rear axle suspension components. Where the outboard edge of circular liners meets the vertical outboard wheel well panel, a replaceable hollow-core rubber gasket shall be provided.

#### **ALUMINUM TREADPLATE ROOF OVERLAYS**

Driver's and passenger's side compartment roof tops shall be lined/plated with designated material, flanged down on front, rear, and full length outboard side. Liners shall extend the full length and the full width of compartment roof tops. Flange mating corners of roof top liners shall have "TIG" welded closures. Where aluminum treadplate liners are specified, they shall be underside coated with a spray on rubberized "barrier" coating, prior to final bolt-on installation, NOTE: The treadplate liners are not to be considered a structural portion of the apparatus body, bottom sides of which are not to be visible from within the compartment's interior.

During assembly all areas where metal mates or abuts shall be properly caulked with G.E. or equal silicone body sealant to prevent moisture penetration.

Where compartment wall/bulkhead mounted vertical slotted adjustable shelf track assemblies are specified, the tracks are to be bolted in place or mechanically "engaged" to compartment wall/bulkhead, and easily removable. NOTE: Weld-on shelving tracks do not meet the intent of this requirement.

#### **FILTERED COMPARTMENT VENTING**

Back walls of all apparatus body side compartments, including: six (6) lower level (below top of chassis frame rails) 2-ahead of and 1-behind the wheel well housings, are to be equipped with vented pass-through openings to the body under side. Vented openings are to be covered with 3M water resistant mesh filter media and an interior



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compartment metal grille. Grille is to be attached to the interior compartment wall with reusable stainless steel screw fasteners with nylon threaded inserts, allowing for removal and cleaning of the filter media from inside of each vented compartment. Inboard compartment back wall (outboard of tank), at each individual vent, is to be provided with rubber "flaps" installed to prevent water from entering compartment from underside of body. Vent openings, mesh filter media, and removable grille must allow for dust and moisture free ventilation of the compartment interiors, without reduction of the interior compartment depth.

#### **RUBRAILS**

Brushed Stainless Steel channel style rubrails shall be provided along bottom of full height compartments.

Rubrails are to be channel shaped with flanges inboard/flat surface outboard, spaced away from body with non-metallic shims, to allow for wash-out and absorption of minor impacts without damage to body flange.

Rubrails shall be bolted in position, easily replaceable.

#### **POLISHED STAINLESS-STEEL FENDER CROWNS**

Polished stainless steel fender crowns will be provided and removable from wheel well housings, with nylon spacers provided between mating flanges, to allow "wash-out" of mating areas.

The bolt-on fasteners are to be stainless steel, concealed from exterior view.

#### **SLIDE-IN SUCTION HOSE and STRAINER COMPARTMENT - PASSENGER SIDE**

A fully enclosed hard suction hose "sleeve compartment" shall be furnished, located between tank and body side.

Compartment shall accommodate 10 ft. section of 6" i.d. Fire Department hard suction hose.

Rear portion of suction hose sleeve compartment shall be enlarged for a pre-attached low-level strainer.

Rear door shall be overlapping style with D-ring dual direction rotary slam latch and Nader pin.

#### **TUBULAR HANDRAILS, VERTICAL REAR INBOARD CORNERS**

Apparatus body tubular railings are to be furnished, consisting of: 1-.25" o.d. extruded aluminum tubing, chrome plated double bolt type 3" stand-off end type and center rail brackets, and neoprene rubber surface mounting gaskets furnished between rail bracket and painted body surface.



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Tubular railings at step areas are to be provided with an aggressive machined "knurled" non-slip exterior surface. Two (2) tubular railings are to be located: 1-passenger's side and 1-driver's side at vertical rear inboard compartment corners.

Two (2) tubular railings are to be located: 1-passenger's side and 1-driver's side at vertical rear inboard or outboard compartment corners. Handrails are to extend to the top of inboard rear body corners.

#### **HORIZONTAL REAR HANDRAIL, BELOW HOSE BED**

Tubular railing to be furnished, consisting of: 1-.25" o.d. extruded aluminum tubing, chrome plated double bolt type 3" stand-off end type and center rail brackets, and neoprene rubber surface mounting gaskets furnished between rail bracket and body surface. Rrailing is to be provided: horizontally full width of hosebody, on rear body vertical panel below hose bed gratings. Railing is to be as wide as is possible, without causing interference with optionally specified rear inlets/outlets or step assemblies.

#### **PIKE POLE MOUNTING, WITH THE LADDER MOUNTINGS**

The above specified two (2) pike pole(s) shall be mounted, in appropriate aluminum or PVC tubes, located inside the specified slide-in hard suction hose storage area(s). End of tube(s) shall be "notched" for Pike Head, to prevent rotation.

#### **PIKE POLE MOUNTING, INTERIOR OF SLIDE-IN LADDER STORAGE SLEEVE**

Sleeved mounting(s) to be provided for three (3), each pike pole(s) in appropriate aluminum or PVC tubes, located inside the specified slide-in ladder storage area. End of tube(s) to be "notched" for Pike Head, to prevent rotation. Tubes designed to hold New York Hooks

#### **UNDER BODY STAINLESS STEEL SUB-FRAME**

An apparatus body sub frame is to be furnished, completely independent of the assembled apparatus body fabrications, bolted to and easily removable from the body module. The apparatus body sub frame, including a forward yoke assembly with torsional suspension, transverse under-tank-cradle supports, and a rigid cantilevered rear platform, are to be constructed of rectangular heavy wall type 304 stainless steel welded tubing. Overall sub frame design will provide a corrosion-free structural under body "platform" onto which the compartmented apparatus body is to be bolted to and easily removable from.

#### **FORWARD BODY SUB-FRAME**

A forward sub frame "yoke" is to be furnished, with upper level horizontal transverse cross-members supporting the water tank cradle, and lower level outboard and rearward horizontal members providing under-compartment-



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floor support of all side and rear compartments. Sub frame vertical tubular structures are to be no more than 1" from chassis frame webs, so as to allow for maximum interior depth of all side compartments. Four (4) bolt-through rubber cushion "vibration and torsion isolators" are to be provided, two (2) per side. Isolators are to bolt to .312" longitudinal yoke structures, and chassis frame web .312" angle brackets, the assembly of which allows for unlimited twisting-moment of the chassis frame rails, independent of the body sub frame. Lower level horizontal under-floor supports are to allow for individual compartment floor load rating in excess of 800 pounds per compartment (as determined by body construction material), without deformation of the floor material.

#### **REARWARD BODY SUB-FRAME**

A "cantilevered" rear under body and tailboard sub-frame platform will be furnished, with transverse and longitudinal tubular stainless structures welded to .75" x 8" glove plate frame drops which are bolted to the side web of rear most chassis frame rails. Glove plates are to be located immediately rearward of the chassis rear axle suspension, and are to include integral bottom 3" diameter closed tow eyes. A bolt-on tubular structure is to be provided, spanning between the glove/tow plates, with its removal allowing for the entire body sub frame (with compartmented body attached) to be lifted vertically from the chassis.

#### **TAILBOARD SUB-FRAME**

The specified cantilevered rear under body sub-frame platform shall continue rearward, beyond the rear body corners and rear face of body, providing rigid support of the specified apparatus rear tailboard/bumper. Tailboard/bumper understructure is to consist of the same heavy tubular stainless steel, barrier isolated from any dissimilar metals, its design allowing for the tailboard fabrication to be positioned away from and independent of the body fabrications.

#### **BODY SUB-FRAME MOUNTING TO CHASSIS**

Apparatus body sub frame components are to be bolted to the chassis frame with hardened steel locking thread nut and bolt fasteners, bolt holes precision drilled through chassis frame side webs. Body sub frame is to be positioned parallel with and leveled to the chassis frame rails, designed to provide approximately 22" from the ground to top of apparatus body rub rails, running boards, and rear tailboard, when fully loaded.

**NOTE: The apparatus body sub frame is not to be fastened to the chassis frame rails with U-bolts, sandwich clamps, or other temporary fastening methods, AND/OR the body sub frame is not to be permanently welded to the body fabrications or extrusions. Above all, the body sub frame is to provide the above specified under-compartment-floor support.**

Top mating surface (body to sub frame) of underbody and tailboard tubular supports is to be fully lined with 3M vinyl barrier tape so as to properly isolate the sub frame from the compartment floors.

#### **APPARATUS BODY SIDE COMPARTMENT CONFIGURATION:**

A precision machined and fabricated fire apparatus compartmented body is to be furnished, designed to be located immediately rearward of the specified fire pump module, totally separate of the pump module. The



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compartmented body is to be mounted to, supported by, and removable from the specified under body structural sub-frame.

The body configuration is to include fully enclosed and weather sealed compartmentation on the driver side and the passenger's side of vehicle. In order to provide for maximum depth compartmentation, the wheelwell housings are to completely enclose the rear axle suspension components, allowing for the lower portions of the side compartments to extend inboard to the chassis frame depth. Additionally, the apparatus body overall side-to-side width (inboard of body rub rails and fender moldings) is to be 100".

Passenger's side compartments are to be provided: one (1) each full-height ahead of, one (1) each upper level above and one (1) each full-height behind rear wheelwell housing.

Driver's side compartments are to be provided: one (1) each full-height ahead of, one (1) each upper level above and one (1) each full-height behind rear wheelwell housing.

#### **COMPARTMENTATION, THREE (3) EACH: DRIVER SIDE**

D1: The driver's front side compartment segment (ahead of wheelwell) shall be 46" interior width x 64" interior height x 25" interior depth lower level/12" interior depth upper level. Compartment segment to be fully enclosed and weather sealed, equipped with vertically hinged compartment door(s), size of \_\_\_" wide x \_\_\_" high.

D2: The driver's side over-the-wheels and outrigger upper level compartment segment shall be 52" interior width x TBD" interior height x 12" interior depth. Compartment to be fully enclosed and weather sealed, equipped with two (2) vertically hinged compartment doors, size of \_\_\_" wide x \_\_\_" high.

D3: The driver's rear side compartment segment shall be 52" interior width x 64" interior height x 25" interior depth lower level/12" interior depth upper level. Compartment segment to be fully enclosed and weather sealed, equipped with vertically hinged compartment door(s), size of \_\_\_" wide x \_\_\_" high.

#### **COMPARTMENTATION, THREE (3) EACH: PASSENGER SIDE**

P1: The passenger's front side compartment segment (ahead of wheelwell) shall be 46" interior width x 64" interior height x 25" interior depth lower level/12" interior depth upper level. Compartment segment to be fully enclosed and weather sealed, equipped with vertically hinged compartment door(s), size of \_\_\_" wide x \_\_\_" high.

P2: The passenger's side over-the-wheels and outrigger upper level compartment segment shall be 52" interior width x tbd" interior height x 12" interior depth. Compartment to be fully enclosed and weather sealed, equipped with two (2) vertically hinged compartment doors, size of \_\_\_" wide x \_\_\_" high.



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P3: The passenger's rear side compartment segment shall be 52" interior width x 64" interior height x 25" interior depth lower level/12" interior depth upper level. Compartment segment to be fully enclosed and weather sealed, equipped with vertically hinged compartment door(s), size of \_\_\_" wide x \_\_\_" high.

#### **UPPER BODY PROVISIONS FOR COFFIN COMPARTMENTS**

Smooth painted exterior body panels, constructed of 12 gauge 304 stainless steel shall be provided above driver and officer side compartments.

#### **LANDING/STEP AREAS (2) TO REAR OF SQUAD CAVITIES**

Two (2) recessed step areas (landings) are to be provided, located immediately to the rear of the specified overhead squad cavities, on driver and passenger sides of body. Landings are to be same width of cavities, recessed the total depth of cavities, allowing for standing step positions at top rear of body (ahead of optionally specified ladder), above rear body corners. Landings are to have a NFPA approved non-slip surface.

#### **COMPARTMENT WELLS**

Four (4) each, compartment wells shall be provided within specified upper body coffin compartment provisions.

##### **LID**

Each well is to be provided with a single piece lift-up hatch style lid which overlaps opening and extends down along sides of opening perimeter.

Lids shall be equipped with door jamb mounted plunger switch to activate the interior lighting and DNMA warning.

Two (2) pneumatic lift assists/stay-open props and weather stripping provided for each lid.

Lids shall be equipped with inboard full length hand rail and rubber strap style hold downs.

##### **DRAINS**

Each coffin box shall have a flush floor drain, routed with rubber hose through body to below apparatus.

##### **MATERIALS**

Wells are to be fabricated smooth .125" aluminum sheet and .187" polished ATP lid.

#### **COFFIN POD FLOOR TILES, SECTIONAL VINYL FLOOR TILE**

Vinyl 12" x 12" sectional floor tiles are to be provided, custom fitted to the perimeter profile of the interior floor surfaces of the specified coffin pods. The specified 12" x 12" coffin pod floor tiles are to be BLACK in color.



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#### LED LIGHT STICKS UNDERSIDE POD COVERS

Four (4) pair, 12-volt multiple LED element tubular light sticks are to be furnished, consisting of two (2) individual light strips per cavity pod, mounted inline underside the hinged metal pod covers. Light sticks are to be positioned to illuminate interior pod cavity, with the hinged cover in full-open position. Light sticks are to be activated by opening of respective pod cover.

#### SIDE COMPARTMENT DOORS, 3-POINT LATCHES

The following specified compartment doors shall be "flush" with exterior body panels/door jambs, fabricated double panel design with interior compartment weatherstripping. Doors shall be flush mounted to prevent lapping door panel gaskets from freezing to body exterior panels, NOTE: Compartment doors which do not custom-fit door openings, or lap over exterior body panels are not acceptable.

Specified compartment door jambs, integral with front and rear body corners, integral with compartment roofs, and removable above wheelwell housings, shall be double-broke with return flanges perimeter lined with hollow core clip-on/removable neoprene rubber weatherstripping. Weatherstripping shall seal against interior perimeter door flange, allowing "flush fit" of exterior door surface with exterior body sides. Weatherstripping shall be single continuous piece, with no splice joints in the vertical or top horizontal areas.

Striker pins, for use with specified compartment door rotary latches, shall be positioned in top and bottom door jambs and side door flange of vertically hinged doors "interior latched" double-doors, top and bottom door jambs of vertically hinged single doors, and the front and rear door jambs of horizontally hinged doors. Striker pins to be of minimum length so as to not obstruct door opening. Striker pins shall be threaded stud type, cadmium plated, easily accessible and removable.

Passenger's side and driver's side compartment doors shall be U-formed, with triple-broke 2" perimeter flange, fabricated of .125" 5052/H32 smooth aluminum. Removable full size inner door liners shall be fabricated of .125" polished 4-way aluminum treadplate, installed after finish painting of exterior door panel. Inner door liners shall be caulked with silicone sealant prior to assembly, held in place with "flush" stainless steel replaceable fasteners (not self-tapping screws or thread tapped flange screws). Inner door cavity, between exterior door pan and removable inner liner shall be packed with sound deadening automotive sheet foam material. All doors shall be of the "flush design" to custom fit the door opening, without overlapping exterior door perimeter body panels. Paddle handle latches are to be provided on all interior latched doors. D-ring Hansen 102L polished stainless steel slam type door handles that unlatch counter-clockwise shall be furnished on all exterior latched doors. D-rings shall be bent outward for better grasp, with a latch integral mechanism spring-loaded to return to horizontal position. Door handles shall be located in right hand door where double vertically hinged doors are furnished on passenger side (leading edge door) in left hand door where double doors are furnished on driver side (leading edge door), or to trailing edge of single vertically hinged driver side or passenger side door. Door handles shall be located at centerline bottom of top horizontally hinged doors and centerline top of bottom horizontally hinged



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doors. Two (2) Eberhard #1-400 cadmium plated "rotary-slam" automatic door latches shall be furnished, mounted one top and one bottom of all vertically hinged driver side or passenger side doors and one front and one rear of horizontally hinged compartment doors. Neoprene rubber gaskets shall be furnished, protecting painted surface between door skin and latch assembly. Exterior door panels shall be smooth with no welds or fasteners exposed. Area where double doors meet shall be weatherstripped, mating door flange offset to allow flush fit of adjacent door. Back side of offset flange (non-latched doors) shall be equipped with rubber bumpers to prevent damage to exterior surface of adjacent door. Vertical offset door flanges shall be integral with exterior door skin, not part of the removable interior door liner.

Rod and spring type door holders/props shall be furnished, installed in top outboard interior corners of all vertically hinged compartment doors. Door holders shall be double bolted to doors and door jamb drop flange, easily removable. Interior compartment doors shall include corner reinforcements with crimp-nut fasteners to accommodate bolted door holder bracket. Door holders/props shall be designed to hold the doors in both "open" and "closed" positions, properly adjusted to prevent opening beyond 90 degrees. NOTE: Door holders/props which are welded to sheet metal screwed to door jambs and/or inner door liners are not acceptable.

In addition to rod/spring door props, all vertically hinged doors shall be provided with multi-stranded steel cable door stops as added protection in event of failure of rod/spring prop. Cable door stops shall not obstruct door opening.

Horizontally hinged lift-up style compartment doors shall be equipped with front and rear (dual) air cylinder assists. Cylinder assists shall be mounted to double bolted fabricated stainless steel door and door jamb brackets. Bottom horizontal and side vertical door jamb areas, surrounding lift-up style compartment doors, shall be lined with polished stainless steel trim moldings to provide corner scuff protection.

All compartment door hinges shall be full length piano style type 304 stainless steel with single piece stainless steel hinge pin. Exposed piano hinge knuckles shall be "machine buffed" to a chrome-like high lustrous finish. Hinge leaves shall be lined with 3M dielectric tape on mating surfaces to doors and door jambs. Piano hinges shall be bolted to door and corresponding door jamb using stainless steel button socket head cap screws and Ny-Lok stainless steel self-locking nuts. So as to provide minimum clearance between door and door jamb (for improved weather sealing), all vertically mounted compartment door hinges shall be .060" material with .187" stainless pin and maximum knuckle length of .625". Horizontal top-of-door mounted hinges, where located under drip cap, may be of larger pin diameter.

### **POLISHED EXTRUDED ALUMINUM DRIP PROTECTION**

Machine-polished extruded aluminum drip cap extrusions shall be provided, installed overhead all of specified hinged compartment door, and/or roll-out tray-doors. Drip cap extrusions are to be installed with screw fasteners (not adhesive).



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#### **ADJUSTABLE SHELF TRACKS, LOW PROFILE**

Six (6) sets of Laser cut vertically slotted bolt-on "low profile" shelf tracks are to be furnished, mounted two (2) on forward and two (2) on rearward interior side walls of the designated apparatus body side compartments. Tracks are to be designed to accommodate Hex-Bolt and spring-loaded threaded Cleats, in addition to dual stainless steel threaded safety pins allowing for vertical adjustment and security of the optionally specified horizontal compartment shelves.

Shelf tracks are to be fabricated of .125" smooth aluminum with a finish matching that of the shelves and trays, and their design must allow for the shelving width to match the compartment clear opening width.

#### **VERTICAL STRIP COMPARTMENT LIGHTING**

Six (6) pairs of LED element, interior compartment vertical "strip" lighting to be furnished.

Lights activated by "opening" of the respective compartment door.

#### **OVERHEAD HOSE BODY: FORWARD DUNNAGE AND REARWARD HOSE BED**

The upper level centerline of hose body, above the water tank, is to be provided with a rearward hose bed.

Hose bed side-to-side width is to be at least \_\_\_", and the hose bed front-to-rear length is to be at least \_\_\_".

#### **HOSE BED: ALUMINUM GRATINGS**

A forward hose body transverse divider panel is to be provided, fabricated with perimeter flanges, and bolted in position (so as to be removable) immediately to the rear of the water tank fill stack. Transverse divider panel is to form the forward wall of the main hose bed area, and provide a mounting surface for optionally specified adjustable hose bed divider tracks.

The apparatus main hose bed area is to be located to the rear of the transverse hose body divider panel, between passenger's and driver's inboard apparatus body sides, overhead the water tank.

Multiple double-break flange reinforced tank retainer/hose load support beams are to be provided, spanning between and bolted to the inboard apparatus body sides. Beams are to be constructed of body matching material, profile is to be of minimum height to maximize hose bed depth, and the beams are to be positioned no more than twenty (20) inches apart.

Extruded aluminum slatted hose bed floor gratings are to be furnished, running longitudinally the full length of the hose bed. Longitudinal grating slats are to be fastened to underside perpendicular cross-slats which extend the full width of the hose bed cavity. The hose bed floor gratings are to be assembled with bolts (not welded), so as to allow for future modifications and repairs to the grating assembly. Longitudinal gratings are to be single piece full



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length extrusions, spaced at least .5" apart to allow for hose ventilation. Cross-slats are to be positioned to rest on the top surface of the specified overhead tank retainer/ hose load support beams.

#### **ALUIMINUM TREADPLATE DECKING, AHEAD OF HOSE BED**

The overhead top of body area ahead of the hose bed, between the body sides, and to the rear of the midship pump module, is to be plated with .187" polished 4-way aluminum deck plate. The aluminum deck plate is to have an NFPA approved non-slip treadplate pattern, and is to be bolted to perimeter body mating surfaces so as to be easily removable.

NOTE: Where tank fill stacks are present within the above specified covered area, the deck plate is to be cut-out to the exact profile of the stack(s).

#### **STAINLESS STEEL ADJUSTABLE HOSEBED DIVIDER TRACKS**

Channel fabricated stainless steel hose bed divider horizontal slide tracks are to be furnished, transverse at the rear of hose bed, designed so as to retain the floor gratings and prevent snagging of hose or couplings during deployment and re-loading operations.

In addition to the rear transverse hose bed divider slide track, two (2) parallel transverse stainless steel horizontal channel tracks shall be furnished, bolted to/removable from the specified forward cross divider. Forward and rear horizontal channel tracks are to be provided with sliding friction clamps and threaded studs with acorn nuts, allowing infinite side-to-side adjustment of hose bed divider location.

#### **HOSEBED DIVIDER**

One (1) each, adjustable hose bed divider shall be furnished, constructed of 1/4" unpainted aluminum.

Front and bottom of divider shall have weld on T extrusion for structural integrity and adjustment.

The top rear corner of the divider panels shall have a 3" radius, to prevent damage to tarps and restraints.

All horizontal, vertical, and rear radius metal edges are to be DA sanded smooth to prevent personnel injury and hose damage.

#### **HAND HOLD MACHINED INTO REAR OF HOSEBED DIVIDER(S)**

The above specified two (2).25" thick aluminum hose bed divider panel(s) shall have a hand-hold cut-out laser machined into the trailing edge surface. Cut-out area to have top and bottom radiuses, and shall be sanded to provide smooth edges.



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#### HOSE BED CAPACITY

The main overhead hose bed areas, as described above, shall be designed to accommodate: 400 ft. of 3 " double jacket fire hose, 250 ft. of 2.5 " double jacket fire hose, and 800 ft. of 5 " large diameter hose.

#### VINYL HOSE BED COVER

A vinyl coated nylon hose bed cover/tarp to be furnished over main hose body area. Final design must be approved by the customer.

Hose bed cover material shall be red in color.

Front of hose bed shall be fastened to apparatus body by full width awning rail and beaded seam sewn into leading edge of hose bed cover.

Cover shall be removable by sliding front of hose bed cover laterally out of awning rail.

Sides of hose bed cover shall be fastened to apparatus body by VelCro along outboard edges of hose bed cover and hose body sides.

Rear of hose bed shall be restrained by upper retaining pins, chain-weighted seam and stretch cords provided at the rear and on end flap.

#### NO RIDE WARNING LABEL

One or more permanent labels to be installed at the rear step area, to read: **WARNING: Do Not Ride on Tailboard.** Label is to be permanently encased in a chrome full surround bezel.

#### TAILBOARD, EMBOSSED .187" ALUMINUM TREADPLATE

A 101" wide rear step/tailboard shall be furnished, constructed of .187" polished 4-way aluminum treadplate material, with an NFPA approved (as slip-resistant) "embossed" tread top surface.

Tailboard shall be a single piece fabrication, with perimeter fabricated flanges, side and rear same width as the body rubrails, and outboard rear corners "beveled" 45-degrees. The beveled corner flanges and the rear flange of tailboard shall be double-broke, and have a total of five (5) cut-outs, exposing the under flange mounted rear corner marker lights and rear center marker light cluster. Tailboard shall be spaced .5" away from the rear face of body, for drainage, bolted in position and easily replaceable in the event of damage. Underside of aluminum treadplate tailboard is to be lined with a dielectric barrier tape, separating the aluminum from the dissimilar metal underbody sub-frame structure.



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Per NFPA: Steps, platforms, or secure ladders shall be provided so that firefighters have access to all working and storage areas of the apparatus. The maximum stepping height from ground to first step shall not exceed 24". Additional steps cannot be more than 18" apart. All steps, platforms, or ladders shall sustain a minimum static load of 500 pounds, without permanent deformation and shall have skid resistant surfaces. Any step shall have a minimum area of 35 sq. in. Platform shall have a minimum depth of 8".

#### **TAILBOARD DEPTH**

The tailboard shall be fourteen (14)" deep (front-to-rear flange), across the entire width of the tailboard.

#### **ALUMINUM TREADPLATE PUMP PANEL RUNNING BOARDS**

Driver's and passenger's side pump panel running boards to be furnished, extending from the rear of chassis cab (or cab steps) to the front outboard body corners, at a horizontal level "in-line" with the apparatus body side rub rails. Running boards shall be single piece fabrications with double-broke perimeter flanges, and shall protrude outboard of pump panel sides, to the same total width as the apparatus body rub rails (101"). Running board fabrications are to be bolted to the bottom sides of the pump module and furnished with forward and rearward angular stainless steel under-support brackets.

Running boards are to be constructed of .187" polished 4-way aluminum treadplate, with an NFPA approved non-slip foot grip tread top surface.

#### **TOW EYES, TWO (2) EACH**

Two (2) tow eyes shall be installed below the rear of body, eyes to be 3" in diameter.

The tow eyes shall be machined into .75" thick steel plates, integral with body subframe, bolted to the side webs of each chassis frame rail, designed to allow vehicle to be straight-line pulled using both of the tow eyes.

#### **COMPARTMENTATION, REAR RUNNINGBOARD LEVEL**

A rear apparatus body compartment shall be furnished, located at running board level, ahead of the tailboard, to the rear of the chassis frame rails and water tank, below the hose bed, and between the driver's and passenger's rear side compartments.

The rear compartment shall be fully enclosed and weather sealed, equipped with a "sweep/wash-out" floor, which is raised at least 1" above the compartment door sill and the specified tailboard/bumper. The entire compartment floor shall rest on, and be supported by, the specified rear under body tubular sub frame platform.



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Rear compartment shall extend vertically from its interior floor to the underside of hose bed, and longitudinally from inner door liner to the rear of the chassis frame rails.

The running board level rear compartment (ahead of tailboard) dimensions shall be \_\_\_" interior width x \_\_\_" interior height x \_\_\_" interior depth.

The following specified rear compartment door opening shall be \_\_\_" wide x \_\_\_" high.

#### **REAR COMPARTMENT DOOR, ROLL-UP STYLE, ROM BRAND**

The following specified roll-up style ROM compartment door track extrusions are to be "flush" with exterior rear of body panels.

The rear body door panels shall be fabricated with inboard flanges at doorway sides, which are machined for screw type fasteners for bolt-on mounting of the following specified roll-up compartment door aluminum side track extrusions.

The rear compartment ROM door shall be an extruded anodized aluminum roll-up shutter style, provided with: spring loaded "front roll" door lift assist mechanism, a single full width bottom slat mounted tubular bar latch handle, and two (2) outboard doorway mounted latch handle retainers.

Extruded anodized aluminum vertical left and right side tracks and horizontal overhead molding shall be provided, each with removable neoprene rubber weather-stripping. The door tracks and molding shall be bolted to vertical side and horizontal overhead door jambs so as to be easily removable for repairs or replacement of the weather-stripping, NOTE: Roll-up door tracks and/or moldings which are riveted or welded in position are not acceptable.

The roll-up door shall be of maximum width and height for the available doorway opening size. The door opening size may be reduced by no more than 3" total width (1.5" per side track) and 4" total height (obstruction below door bundle). The decrease in compartment opening size is only allowed due to the profile of side track extrusions with attached weather-stripping and the bottom door slat which remains in the door opening.

#### **ROM VERTICAL STRIP INTERIOR DOORWAY COMPARTMENT LIGHTING**

Two (2) per compartment ROM brand 12-volt multiple LED element, interior compartment vertical "strip" tubular lights, shall be furnished, one (1) each side of each compartment door opening.



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Where used with roll-up style compartment doors, the lights are to be inboard the specified roll-up door tracks, activated by "opening" of the respective compartment door, using a magnetic bar latch switch. Lighting shall have polycarbonate lens to resist breakage from impact and damage from light element heat.

#### **DOOR BAR HANDLE, NON-LOCKING STYLE**

Door bar style handle is to be Non-Locking style.

#### **COMPARTMENT FLOOR TILES, SECTIONAL VINYL FLOOR TILE**

Vinyl 12" x 12" sectional floor tiles are to be provided, custom fitted to the perimeter profile of the interior floor surfaces of the driver's side, passenger's side, and rear compartments, seven (7) total.

The specified 12" x 12" floor tiles are to be BLACK in color.

#### **STAINLESS STEEL REAR ACCESS LADDER**

A swing-out and down access ladder shall be furnished and installed on rear body surface.

For superior strength and service-ability the entire ladder assembly shall be constructed of fabricated 304 grade brushed stainless steel and assembled using .25" coated stainless steel fasteners and Nylock nuts. Welding shall not be used in the construction.

Ladder shall be equipped with dual vertical knurled tubular aluminum hand rails on upper section.

A bottom ladder section shall be furnished which flips 180-degrees down below tailboard level for improved access to ladder.

Ladder shall fit vertically along rear body surface when stowed and swing out to provide angular climbing surface. Dual compressed gas struts shall be incorporated into movement of ladder. Manual latches shall not be required in the operation of ladder.

Step depth, tread, and spacing shall be NFPA compliant.

#### **DRIVER SIDE FRONT STEPS**

The following steps shall be provided on driver side front facing surface of apparatus body or pump module.



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#### **FOLDING STEP WITH LIGHT**

Two (2) IC brand model 3004234 chrome plated folding steps shall be furnished and installed. Steps shall have integrated back lit logo and lighting to illuminate step surface which is activated with park brake.

#### **HANDRAIL**

One (1) knurled polished aluminum vertical handrail with chrome plated end brackets shall be furnished and installed to accompany steps.

#### **OFFICER SIDE FRONT STEPS**

The following steps shall be provided on officer side front facing surface of apparatus body or pump module.

#### **FOLDING STEP WITH LIGHT**

Two (2) IC brand model 3004234 chrome plated folding steps shall be furnished and installed. Steps shall have integrated back lit logo and lighting to illuminate step surface which is activated with park brake.

#### **HANDRAIL**

One (1) knurled polished aluminum vertical handrail with chrome plated end brackets shall be furnished and installed to accompany steps.

#### **SLIP RESISTANT SABER-SHAPE TABS ON PERIMETER TAILBOARD FLANGES**

The top outboard corners of the tailboard's rear side facing fabricated flanges are to be provided with multiple evenly spaced saber shape tabs. The tabs are to extend slightly above the top step surface, so as to limit foot slippage when climbing aboard the tailboard. As with the puncture grip pattern, the saber-shape tabs must be self draining to the ground.

#### **LED STRIP LIGHT STICKS UNDERSIDE POD COVERS**

Four (4) each, 12-volt multiple LED element tubular light sticks, shall be furnished, mounted one (1) per cavity pod, underside the hinged metal pod covers. Light sticks are to be positioned to illuminate interior pod cavity, with the hinged cover in full-open position. Light sticks shall have poly carbonate lenses to resist breakage from impact and damage from light element heat. All light fixtures are to be activated by opening of respective pod cover.

#### **COST ALLOWANCE: TOOLS AND ACCESSORY EQUIPMENT**

The apparatus total cost shall include an "Allowance" of \$10,000.00, for installation of customer provided miscellaneous accessory equipment and tools, in the driver and passenger side compartments.



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### EXTENSION AND ROOF LADDERS

Refer to NFPA Equipment Section for optionally specified extension and roof ladders to be furnished.

### EXTENSION AND ROOF LADDERS - TO BE MOUNTED IN SPACE(S) ABOVE:

**Extension Ladder:** Brand \_\_\_\_\_ Model \_\_\_\_\_ Number of Sections \_\_\_\_\_  
Extended Length \_\_\_\_\_ ft. Nested Length \_\_\_\_\_ Inches Nested Width \_\_\_\_\_ Inches Stacked Height  
(Thickness) \_\_\_\_\_ Inches

**Roof Ladder:** Brand \_\_\_\_\_ Model \_\_\_\_\_ Overall Length \_\_\_\_\_ ft.  
Overall Width \_\_\_\_\_ Inches Height (Thickness) \_\_\_\_\_ Inches

**Folding Ladder:** Brand \_\_\_\_\_ Model \_\_\_\_\_  
Rail Height (Thickness) \_\_\_\_\_ Inches, Collapsed Width \_\_\_\_\_ Inches,  
Collapsed Length w/Foot Pad \_\_\_\_\_ inches.

### SLIDE-IN STORAGE FOR EXTENSION AND ROOF LADDERS, PASSENGER SIDES

One (1), horizontal storage cavity is to be furnished, passenger's side outboard the upper portion of the water tank, extending full length of body. Storage cavity is to accommodate: tray mounting for optionally specified extension ladder, roof ladder/folding ladder/PVC tubing storage for two (2) pike poles. Ladder storage cavity is to be approximately 40" above rear tailboard, provided with a single vertically hinged rear body panel material matching access door with stainless D-ring latch assembly.

Ladder tracks, for extension and roof ladders only, are to be lined on bottom with nylon for easy "slide-out".

### SLIDE-IN LADDER STORAGE SLEEVE, FABRICATED OF STAINLESS STEEL

The above specified ladder slide-in metal storage brackets and trays are to be enclosed on top/sides/bottom/front, in a sleeve compartment, accessible through an opened rear door. The sleeve enclosure is to be fabricated of type 304 #4 brushed stainless steel, for total corrosion protection.

### FOLDING LADDER TRAY, SLIDE-IN TRAY

A fabricated metal "tray" shall be furnished, designed to accommodate a folding attic ladder. The tray shall be located in the specified horizontal "slide-in" ladder compartment.



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### **PIKE POLES**

Refer to NFPA Equipment Section for optionally specified Pike Poles to be furnished.

### **LADDER LOCATION: DRIVER SIDE REAR BODY CORNER**

The specified climbing ladder is to be located on the Driver Side Rear Body Corner, centered between inboard and outboard vertical edges of corner.

### **FULL-WIDTH REAR BODY STEP**

A full hose bed width surface mounted rear body step fabrication is to be furnished, located between rear body sides, at **same level as "top" step of specified rear body ladder(s)**. Rear step to be fabricated of polished 4-way aluminum treadplate, at least 8" deep, bolted in position and removable. Top step surface to be pattern-cut puncture fabricated non-slip.

### **APPARATUS BODY AND COMPARTMENT ACCESSORIES**

All compartments with an adjustable shelf or tray shall include four (4) side wall mounted slide tracks.

### **STORAGE IN DRIVER FORWARD WHEEL WELL**

#### **SCBA STORAGE COMPARTMENT**

One (1) triangular shaped compartment is to be furnished to accommodate three (3) SCBA bottles.

Compartment housing that bolt to exterior of wheel well with exposed flange for ease of removal and weather seal.

#### **INTERIOR**

Compartment interior shall be spray coated with a rubberized material for bottle protection and retention. Backside of door shall be lined with insulated rubber mating.

#### **DOOR**

Compartment door shall be weather stripped and equipped with polished stainless steel piano hinge, laser cut stainless door-stop, and a single chrome plated push-button trigger-latch.

#### **EXTERIOR**

Door shall be constructed of brushed 304 12 gauge stainless steel with 4B brushed finish.



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#### **DNMA LIGHT**

Bottle storage compartment door shall be equipped with proximity switch to activate DO NOT MOVE VEHICLE LIGHT, and notify driver of an open door condition.

Std Wheelwell Door Finish

#### **STORAGE IN DRIVER WHEEL WELL REAR**

##### **SCBA STORAGE + FUEL CAP COMPARTMENT**

One (1) triangular shaped compartment is to be furnished to accommodate two (2) SCBA bottles and a fuel fill cap.

Compartment housing that bolt to exterior of wheel well with exposed flange for ease of removal and weather seal.

#### **INTERIOR**

Compartment interior shall be spray coated with a rubberized material for bottle protection and retention. Backside of door shall be lined with insulated rubber mating.

#### **DOOR**

Compartment door shall be weather stripped and equipped with polished stainless steel piano hinge, laser cut stainless door-stop, and a single chrome plated push-button trigger-latch.

#### **EXTERIOR**

Door shall be constructed of brushed 304 12 gauge stainless steel with 4B brushed finish.

#### **DNMA LIGHT**

Bottle storage compartment door shall be equipped with proximity switch to activate DO NOT MOVE VEHICLE LIGHT, and notify driver of an open door condition.

Std Wheelwell Door Finish

#### **STORAGE IN OFFICER FORWARD WHEEL WELL**

##### **FIRE EXTINGUISHER STORAGE COMPARTMENT**

One (1) triangular shaped compartment is to be furnished to accommodate two (2) fire extinguishers.



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Compartment housing that bolt to exterior of wheel well with exposed flange for ease of removal and weather seal.

#### **INTERIOR**

Compartment interior shall be spray coated with a rubberized material for contents protection and retention. Backside of door shall be lined with insulated rubber mating.

#### **DOOR**

Compartment door shall be weather stripped and equipped with polished stainless steel piano hinge, laser cut stainless door-stop, and a single chrome plated push-button trigger-latch.

#### **EXTERIOR**

Door shall be constructed of brushed 304 12 gauge stainless steel with 4B brushed finish.

#### **DNMA LIGHT**

Bottle storage compartment door shall be equipped with proximity switch to activate DO NOT MOVE VEHICLE LIGHT, and notify driver of an open door condition.

Std Wheelwell Door Finish

#### **STORAGE IN OFFICER WHEEL WELL REAR**

##### **ABSORBENT DISPENSER**

One (1) each, triangular shaped fully enclosed compartment shall be furnished to accommodate minimum 27 quarts of typical floor dry material.

A triangular shaped floor dry hopper shall be provided, constructed of stainless steel or polypropylene, mounted to and removable from a telescoping roller slide mechanism. The hopper shall have a hinged top fill door and an integral bottom chute with guillotine dispensing door.

Hopper compartment shall be equipped with a triangular shaped weather-stripped over-lapping "beveled-edge" door constructed of stainless steel, with wheelwell matching finish, equipped with a slam style latch and stainless steel D-ring door handle.

Hopper compartment door shall be provided with a proximity switch to activate DO NOT MOVE VEHICLE LIGHT, and notify driver of an open door condition.

Std Wheelwell Door Finish



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### **LOCATIONS TO BE DETERMINED PRIOR TO CONSTRUCTION**

#### **VINYL FLOOR TILES, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above compartment floor.

If a tray exists on compartment floor, it shall receive above tiles.

### **DRIVER SIDE FORWARD COMPARTMENT INTERIOR ACCESSORIES**

Compartment shall contain the following features:

#### **LOWER LEVEL SHELVING**

The following shall be installed in "lower" portion of compartment.

#### **SHELVING**

Two (2) 3/16" smooth aluminum shelves with 2" tall side walls shall be furnished.

Each shelf shall be vertically adjustable and equipped with spring loaded positioning pins at all 4 attachment points.

#### **VINYL TILE, SHELF/TRAY LINER, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for two (2) of the above specified shelves and/or trays.

### **BODY COMPARTMENT - 125-VOLT RECEPTACLE(S)**

One (1) each, 125-volt, household 20-amp 3-wire duplex (2-total) plug-in receptacles shall be furnished, interior of apparatus body compartment(s), located as designated, with: surface mounted cast aluminum receptacle box, 125-volt 5-20 3-wire household plug-in receptacle, metal cover plate, protected wiring to the specified shoreline, and engraved nameplate identifying voltage and power source.

### **125-VOLT SHORE POWER RECEPTACLE LOCATION(S)**

The above specified "Body Compartment" line voltage receptacles shall be located: high on front bulkhead.



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#### **TOOL BOX, CTECH, FOUR DRAWER**

A four drawer CTECH model DH-1 tool box shall be furnished. The tool box shall be custom fabricated from aluminum panels and powder coated.

The tool box shall be 40.00" wide x 26.00" high x 22.00" deep and shall contain four pull out drawers installed on ball bearing slide tracks. Three drawers shall be 6.00" deep and one drawer shall be 4.00" deep. Each drawer shall be furnished with an exclusive drawer handle which allows for one hand motion opening and closing with latching for transport.

#### **VINYL FLOOR TILES, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above compartment floor.

If a tray exists on compartment floor, it shall receive above tiles.

#### **DRIVER SIDE OVER WHEELS COMPARTMENT INTERIOR ACCESSORIES**

Compartment shall contain the following features:

##### **UPPER LEVEL SHELVING**

The following shall be installed in "upper" portion of compartment.

##### **SHELVING**

One (1) 3/16" smooth aluminum shelves with 2" tall side walls shall be furnished.

Each shelf shall be vertically adjustable and equipped with spring loaded positioning pins at all 4 attachment points.

##### **VINYL TILE, SHELF/TRAY LINER, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above specified shelves and/or trays.

#### **VINYL FLOOR TILES, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above compartment floor.

If a tray exists on compartment floor, it shall receive above tiles.



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#### **DRIVER SIDE REAR COMPARTMENT INTERIOR ACCESSORIES**

Compartment shall contain the following features:

##### **TOOL BOARD, PULL-OUT**

Two (2) vertical tool boards with load capacity of 300 pounds shall be furnished and installed.

The tool board shall be sized to fit the compartment interior dimensions.

Each tool board shall have an outboard channel edge to provide rigidity and a hand grasp for tool board operation.

The tool board shall be fastened to slide assemblies and tracks allowing side-to-side adjustment within the compartment.

The tool board shall lock in both the stored and extended position.

Tool board shall be constructed of 3/16" thick smooth aluminum plate.

##### **VINYL FLOOR TILES, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above compartment floor.

If a tray exists on compartment floor, it shall receive above tiles.

#### **OFFICER SIDE FORWARD COMPARTMENT INTERIOR ACCESSORIES**

Compartment shall contain the following features:

##### **UPPER LEVEL SHELVING**

The following shall be installed in "upper" portion of compartment.

##### **TRAY, SLIDE OUT, FLOOR MOUNT**

Furnished within the compartment shall be a tray constructed of .188" smooth aluminum and shall have a load capacity of 600 pounds. The tray shall be sized to fit the compartment interior dimensions.

Each tray shall be a single piece fabrication with 2.50" perimeter flanges that are welded in the corners forming a pan and providing a recessed area. The front tray flange shall be formed with a double flange, out and down, to



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provide a pull handle. The tray shall be fastened to European style extruded precision slide assemblies on each side that are attached to angles bolted to the compartment floor. The tray shall be held in both the stored and extended position with the use of a gas strut that does not require any type of mechanical latch and allows 110% extension out of the compartment.

#### **BODY COMPARTMENT - 125-VOLT RECEPTACLE(S)**

One (1) each, 125-volt, household 20-amp 3-wire duplex (2-total) plug-in receptacles shall be furnished, interior of apparatus body compartment(s), located as designated, with: surface mounted cast aluminum receptacle box, 125-volt 5-20 3-wire household plug-in receptacle, metal cover plate, protected wiring to the specified shoreline, and engraved nameplate identifying voltage and power source.

#### **125-VOLT SHORE POWER RECEPTACLE LOCATION(S)**

The above specified "Body Compartment" line voltage receptacles shall be located: high on front bulkhead.

#### **VINYL TILE, SHELF/TRAY LINER, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for two (2) of the above specified shelves and/or trays.

#### **VINYL FLOOR TILES, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above compartment floor.

If a tray exists on compartment floor, it shall receive above tiles.

#### **OFFICER SIDE OVER WHEELS COMPARTMENT INTERIOR ACCESSORIES**

Compartment shall contain the following features:

#### **TOOL BOARD, SWING-OUT**

One (1) swing out tool boards with load capacity of 300 pounds shall be furnished and installed.

Each tool board shall be a two 3/16" smooth aluminum plates that are bolted together with 1.00" spacers to allow hardware fasteners on each side without penetrating the opposing board.

The double panel board shall be installed on upper and lower pivot points furnished with sealed roller bearings to provide smooth operation of the board movement.



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The tool board shall be held in the stored and extended position by a single gas strut.

#### **ALUMINUM MOUNTING PANEL**

Furnished within the compartment shall be one (1) 3/16" smooth aluminum with a load capacity of 300 pounds.

The tool board shall be installed on upper back wall of compartment with 1/2" gap allowing for fastener clearance behind the tool board.

#### **VINYL FLOOR TILES, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above compartment floor.

If a tray exists on compartment floor, it shall receive above tiles.

#### **OFFICER SIDE REAR COMPARTMENT INTERIOR ACCESSORIES**

Compartment shall contain the following features:

##### **UPPER LEVEL SHELVING**

The following shall be installed in "upper" portion of compartment.

##### **SHELVING**

Two (2) 3/16" smooth aluminum shelves with 2" tall side walls shall be furnished.

Each shelf shall be vertically adjustable and equipped with spring loaded positioning pins at all 4 attachment points.

##### **VINYL TILE, SHELF/TRAY LINER, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for two (2) of the above specified shelves and/or trays.

##### **TRAY, SLIDE OUT, FLOOR MOUNT**

Furnished within the compartment shall be a tray constructed of .188" smooth aluminum and shall have a load capacity of 600 pounds. The tray shall be sized to fit the compartment interior dimensions.

Each tray shall be a single piece fabrication with 2.50" perimeter flanges that are welded in the corners forming a pan and providing a recessed area. The front tray flange shall be formed with a double flange, out and down, to



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provide a pull handle. The tray shall be fastened to European style extruded precision slide assemblies on each side that are attached to angles bolted to the compartment floor. The tray shall be held in both the stored and extended position with the use of a gas strut that does not require any type of mechanical latch and allows 110% extension out of the compartment.

#### **BODY COMPARTMENT - 125-VOLT RECEPTACLE(S)**

One (1) each, 125-volt, household 20-amp 3-wire duplex (2-total) plug-in receptacles shall be furnished, interior of apparatus body compartment(s), located as designated, with: surface mounted cast aluminum receptacle box, 125-volt 5-20 3-wire household plug-in receptacle, metal cover plate, protected wiring to the specified shoreline, and engraved nameplate identifying voltage and power source.

#### **125-VOLT SHORE POWER RECEPTACLE LOCATION(S)**

The above specified "Body Compartment" line voltage receptacles shall be located: High on front bulkhead.

#### **VINYL FLOOR TILES, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above compartment floor.

If a tray exists on compartment floor, it shall receive above tiles.

#### **REAR FACING COMPARTMENT INTERIOR ACCESSORIES**

Compartment shall contain the following features:

##### **SCBA BRACKET**

Furnished within the compartment shall be one (1). The SCBA bracket shall be a Zico Walkaway bracket model KD-FHLP-6-SFPHS with rubber covered spring clips and a nylon retaining strap.

#### **VINYL FLOOR TILES, BLACK**

3/4" thick expanded black vinyl tiles shall be provided for one (1) of the above compartment floor.

If a tray exists on compartment floor, it shall receive above tiles.



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### **ELECTRICAL - 12 VOLT**

#### **NFPA RELATED NON-EMERGENCY 12-VOLT ELECTRICAL STANDARDS:**

##### **ELECTRICAL WIRING INSTALLATION - 12 VDC**

All electrical circuit wiring installed by the apparatus body builder is to be stranded copper alloy conductors of a gauge rated to carry 125% of the maximum current for which the current is protected. Wiring is to be colored and/or printed with circuit function code over each conductor's entire length.

Original non-protected chassis wiring, extending to rear, including: left turn circuit, right turn circuit, brake circuit, and back-up light circuit is to be re-routed to the interior chassis cab. New replacement color coded legend imprinted SXL insulated multi-stranded copper chassis wiring is to extend from chassis cab to rear body electrical chassis functions. Wiring is to be enclosed inside specified apparatus body in heat resistant vinyl loom.

##### **AMBER TURN LIGHT ACTIVATION**

Dedicated wiring shall be provided from chassis turn signal control, to the rear of the apparatus, for signaling of the specified apparatus body left and right side rear amber turn lights. Rear amber turn lights are not to be activated by brake lights.

##### **ELECTRICAL WIRING INSTALLATION PERFORMANCE - 12 VDC**

All wires are to be of sufficient size so that voltage drop in any electrical device shall not exceed 15%.

##### **BATTERY CABLE INSTALLATION STANDARDS**

Chassis battery cables are to be routed to a power distribution terminal post located on a frame rail, and then to the apparatus body power distribution center (PDC). All battery cables are to be appropriately sized welding cable, heavily insulated super fine multi-stranded copper enclosed within high temperature vinyl loom and equipped with plated copper soldered terminals/lugs. Edge protector or rubber grommet is to be furnished wherever battery cables pass through sheet metal panels.

##### **AUDIBLE DEVICE INSTALLATION STANDARDS**

When furnished, air horns, electric siren, electronic siren speakers, and other audible emergency equipment are to be mounted as low and as far forward on the apparatus as practical. Audible warning equipment is not to be mounted on the roof of the chassis cab.

### **WIRING HARNESES**

All apparatus body and pump compartment wiring for specified lights and electrical equipment shall be suitably protected inside heat resistant vinyl, forming multiple harnesses. Multiple harnesses to run from chassis cab, pump compartment, and apparatus body to a PDC (power distribution center). Harnesses shall consist of



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individual legend imprinted multi-stranded copper color coded SAE-J 1128 compliant automotive wires inside vinyl loom. Spare wires shall run throughout apparatus compartmented body and pump compartment, so as to allow future installations of electrical accessories, using original harnesses. All wiring to be identified, "imprinted" with number and function. Auto-reset circuit breakers to be furnished, of various amperage capacity, sized for intended load.

All 12-volt switches, relays, terminals, connectors, and wiring to have a direct current rating of 125% of maximum current for which the current is protected. All wiring terminals to be machine crimped, pull-tested during assembly.

#### **POWER DISTRIBUTION CENTER**

The power distribution center shall be located interior of driver's forward side compartment, and shall contain engineered electrical components and waterproof pin/socket bulkhead connectors. Multiple circuit breaker sockets shall be furnished for future use.

An enclosed electric junction cubby will be provided in the driver's side lower front compartment. This compartment will be recessed through the inside front wall of the compartment to an easily accessible enclosure to house all of the body wiring junction points, terminal strips, relays, etc. The design of this compartment will not decrease the storage capacity area of the compartment in which it is located. A removable panel will be provided for access to this compartment.

#### **BATTERY CABLE UPGRADE**

A 600 amp fuse protected 2-0 multi-stranded copper insulated battery cable shall run from specified battery switch through a 300-amp solenoid and to the chassis frame mounted threaded stud terminal block, providing power to high amperage items such as: primer motor, electrical discharge valves, reel rewind motors, generator starter motor, etc.

"Vehicle Specific" wiring information shall be provided for this particular apparatus "as built" upon completed delivery of the same. Information to be in spreadsheet format, describing PDC connections and functions.

#### **EMERGENCY SWITCH CONSOLE**

See CHASSIS segment of specifications, for description and location of provided emergency switch control console.

#### **DO NOT MOVE APPARATUS " HAZARD" INDICATOR LIGHT**

The forward overhead mounted flashing hazard warning indicator light, as per current NFPA requirements, is to be provided and shall be illuminated automatically, when signaled by events listed below:



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The light shall be labeled "**DO NOT MOVE APPARATUS IF LIGHT IS ON**".

#### **DEVICES WHICH ACTIVATE THE "DO NOT MOVE APPARATUS" INDICATORS**

Opened chassis cab doors and/or open apparatus body exterior compartment doors, are to activate/illuminate the above specified "DO NOT MOVE APPARATUS" warning indicator light located on the forward overhead headliner, and the specified audible alarm.

#### **APPARATUS LIGHTING INSTALLATION STANDARDS:**

All specified DC Voltage to be in accordance with D.O.T. regulations at time of purchase.

#### **WALKWAY, STANDING PLATFORM, AND WORK AREA LIGHTING**

Specified standing, stepping, and walking surface lighting fixtures are to be located to minimize accidental breakage.

#### **LIGHTING INSTALLATION REQUIREMENTS**

All specified light fixtures are to be located in the engineered model, mounting holes machined, and installed after finish painting, so that all metal edge surfaces receive the same protective primer and finish paint coatings. Where fixture wiring passes through metal body panel, the pass-thru hole is to be equipped with a rubber grommet. All specified light fixtures are to be installed, using stainless steel screws with non-metallic "replaceable" threaded inserts, to allow removal of light fixture, from exterior of body. No holes are to be cut or drilled, after finish painting.

#### **FMVSS LIGHTING CONFIGURATION**

The following specified rear body tail/stop turn and back up lights to be positioned: Red (tail/stop) TOP, Amber (turn) MIDDLE, and Clear (back up) BOTTOM, driver's and passenger's sides at the rear of body.

#### **MASTER BATTERY SWITCH**

See CHASSIS segment of specifications, for description, and location of provided master battery cut-off switch.

#### **REAR TAILBOARD STEP LIGHTS, LED**

Two (2), 12-volt Grote LED courtesy step lights are to be furnished, located to illuminate tailboard step surface at the rear of the body. Light fixture to have polished stainless bezel and shielded clear polycarbonate lens. Lights to be activated by parking brake set.



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### **DOT LIGHTING**

#### **REAR LED ID/MARKER LIGHTING**

Five (5), 3/4" LED marker lights to be furnished, located: two (2) recessed into outboard rear tailboard corner flanges, and three (3) recessed behind center rear tailboard flange. Marker lights to be activated by headlamp switch.

The three (3) LED marker lights located at the rear to be:

As close as practical to the vertical Centerline.

Centers spaced not less than six (6) inches or more than twelve (12) inches apart.

Red in color.

All at the same height.

The two (2) LED outboard marker lights located at the rear shall be installed:

To indicate the overall width of the vehicle.

At the same height.

To be visible from the rear and the side.

#### **MID-TURN/MARKERS**

Two (2), surface mount mid-ship LED dual element, combination marker and turn lights, are to be furnished, located: one (1) driver's side mid-ship vehicle and one (1) passenger's side mid-ship vehicle. Light fixtures are to have Amber lens. Marker Light is to be steady on with headlights, Turn Lights are to have flashing element, activated by vehicle turn signals.

Per FMVSS 108 and CMVSS 108 requirements.

### **REAR BODY RED REFLECTORS**

Four (4) red reflectors shall be furnished, located at rear sides of body.

### **STOP/TAIL , BACK-UP and TURN LIGHTS**

Two (2), Whelen M62BTT, rectangular Red element surface mount "LED" combination stop/taillights to be furnished, mounted each side at rear of body. Lights to be wired for activation by service brake and headlamp switch.

### **REAR TURN SIGNALS**

Two (2), Whelen M62T, rectangular Amber element surface mount "arrow" LED turn signal lights to be furnished, mounted one each side at rear of body. Lights to be wired for activation by left or right turn signal (not by brake lights).



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#### **BACK-UP LIGHTS**

Two (2), Whelen M62BU rectangular Clear element surface mount LED back up lights to be furnished, mounted one each side at rear of body. Lights to be wired for activation by reverse gear of truck transmission.

Above specified lights to include M6FC, CHROME plated bezels, evenly spaced, driver's side and passenger's side rear body corners.

Lights and bezels shall be bolted into position by stainless steel fasteners and press-fit plastic female blind fasteners or secure installation, ease of service, and corrosion prevention.

#### **BACK-UP ALARM**

See CHASSIS segment of specifications, for description of: Back-Up Alarm to be furnished.

#### **COMPARTMENT INTERIOR LIGHTING**

See APPARATUS BODY segment of specifications, for description, and location of provided body compartments interior lighting.

#### **UNDER CHASSIS GROUND LIGHTING**

See CHASSIS segment of specifications, for description of: underside chassis Ground Lighting, and locations to be provided.

#### **GROUND PERIMETER LIGHTS, UNDER SIDE PUMP PANELS**

Two (2), LED grommet mount 4" round 12-volt ground lights are to be furnished, located one (1) driver's side and one (1) passenger's side, beneath the pump panel areas. Lenses are to be 4" diameter, Clear. Lights to be completely sealed for weather resistance. Lights to be activated by setting of the parking brake.

#### **PERIMETER UNDERBODY LIGHTS**

Five (5) each, 4" LED grommet mount under body DC Voltage ground lights to be furnished, located: two (2) each driver's side ahead of and behind rear wheels, two (2) each passenger's side ahead of and behind rear wheels, one (1) each center rear underside tailboard. Lights to be completely sealed for weather resistance, lenses 4" diameter. Light fixtures are to be grommet mounted into STAINLESS STEEL angled brackets to illuminate outwards beneath body. Lights to be wired for activation by setting of the parking brake.



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#### **BACK-UP CAMERA**

The back-up camera as furnished with the chassis shall be recess mounted into the rear face of the body. The camera shall be wired to the monitor in the cab.

#### **SCENE LIGHTING**

The following shall be furnished and installed as described.

#### **BODY SIDE FACING, DRIVER'S SIDE FORWARD**

##### **WHELEN PCH2**

One (1) Whelen Pioneer Plus combination flood/spot light model # PCH2 shall be furnished in white powder coated aluminum housing. The light shall be 12-Volt, 150 watt and have 17,750 usable lumens.

The light head shall be semi-recess mounted in a housing with a chrome trim ring. The mount shall allow the light to be directed straight out or at a 15 degree angle down.

Lighting shall be switched in the cab with an appropriately labeled switch. In addition, the scene light shall also illuminate with a rocker switch installed on the pump panel.

#### **BODY SIDE FACING, OFFICER'S SIDE FORWARD**

##### **WHELEN PCH2**

One (1) Whelen Pioneer Plus combination flood/spot light model # PCH2 shall be furnished in white powder coated aluminum housing. The light shall be 12-Volt, 150 watt and have 17,750 usable lumens.

The light head shall be semi-recess mounted in a housing with a chrome trim ring. The mount shall allow the light to be directed straight out or at a 15 degree angle down.

Lighting shall be switched in the cab with an appropriately labeled switch. In addition, the scene light shall also illuminate with a rocker switch installed on the pump panel.



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#### **BODY SIDE FACING, DRIVER'S SIDE REAR**

##### WHELEN PCH2

One (1) Whelen Pioneer Plus combination flood/spot light model # PCH2 shall be furnished in white powder coated aluminum housing. The light shall be 12-Volt, 150 watt and have 17,750 usable lumens.

The light head shall be semi-recess mounted in a housing with a chrome trim ring. The mount shall allow the light to be directed straight out or at a 15 degree angle down.

Lighting shall be switched in the cab with an appropriately labeled switch. In addition, the scene light shall also illuminate with a rocker switch installed on the pump panel.

#### **BODY SIDE FACING, OFFICER'S SIDE REAR**

##### WHELEN PCH2

One (1) Whelen Pioneer Plus combination flood/spot light model # PCH2 shall be furnished in white powder coated aluminum housing. The light shall be 12-Volt, 150 watt and have 17,750 usable lumens.

The light head shall be semi-recess mounted in a housing with a chrome trim ring. The mount shall allow the light to be directed straight out or at a 15 degree angle down.

Lighting shall be switched in the cab with an appropriately labeled switch. In addition, the scene light shall also illuminate with a rocker switch installed on the pump panel.

#### **REAR FACING, DRIVER SIDE**

##### WHELEN PCPSM1C

One (1) Whelen Pioneer Plus model # PCPSM1C combination flood/spot shall be furnished.

Each light furnished in a Chrome housing.

Each light shall be 12-Volt, 76 watt and have 7,800 usable lumens directed down at 5° and produce illumination arching upward to a 90° pattern of light.

Lighting shall be switched in the cab with an appropriately labeled switch. In addition, the scene light shall also illuminate with a rocker switch installed on the pump panel.



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#### **REAR FACING, OFFICER SIDE**

##### **WHELEN PCPSM1C**

One (1) Whelen Pioneer Plus model # PCPSM1C combination flood/spot shall be furnished.

Each light furnished in a Chrome housing.

Each light shall be 12-Volt, 76 watt and have 7,800 usable lumens directed down at 5° and produce illumination arching upward to a 90° pattern of light.

Lighting shall be switched in the cab with an appropriately labeled switch. In addition, the scene light shall also illuminate with a rocker switch installed on the pump panel.

#### **REAR FACING SCENE SWITCH ON REAR OF BODY**

Rear Facing Scene Lighting shall also be switched on rear exterior apparatus body panel via momentary rocker switch, lit and labeled appropriately.

#### **LIGHT TOWER PACKAGE**

The following Light Tower package shall be furnished and installed.

721588044

NS4.5-1200 WBS Sirion 220,000 lumens, LED 120/240VAC dual tilt, 15ft extended.

4735019

NFPA wired hand-held remote control with e-stop button and 50ft control cable.

914512

50ft power cable.

#### **LIGHT TOWER INSTALL LOCATION**

Specified light mast shall be installed within specified recessed dunnage/well. Appropriate structural provisions shall be provided.

Scene lighting shall be switched in the cab and at pump panel with an appropriately labeled switch, labeled for respective side of apparatus. Scene lighting shall also be activated when vehicle is placed into reverse gear.



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### AIR HORNS

See CHASSIS segment of specifications, for description of: Air Horns to be furnished, Activation Device(s), and mounting locations for same components.

### ELECTRONIC SIREN SPEAKER(S)

See CHASSIS segment of specifications, for description of: Electronic Siren Speaker(s), and Speaker Location(s) to be furnished.

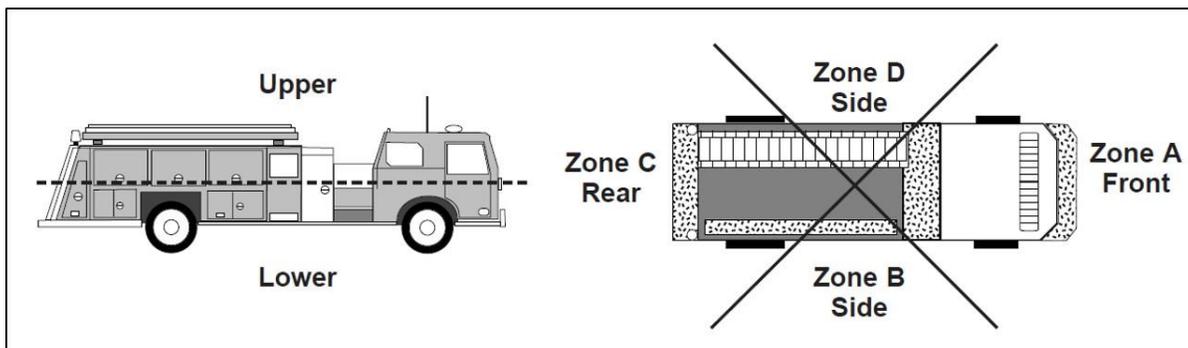
### MECHANICAL SIREN

See CHASSIS segment of specifications, for description of: Mechanical Siren, Activation Device(s), and Installation of components to be furnished.

### WARNING LIGHTS

Warning light locations shall be defined by the following NFPA Zones.

- Zone A FORWARD FACING, UPPER AND LOWER LEVEL
- Zone B OFFICER SIDE FACING, UPPER AND LOWER LEVEL
- Zone C DRIVER SIDE FACING, UPPER AND LOWER LEVEL
- Zone D REAR FACING, UPPER AND LOWER LEVEL





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RotoRay not requested

Mars Lights not requested

#### **ZONE A UPPER**

*Please refer to the chassis specification for chassis mounted warning lighting specifications.*

#### **ZONE A LOWER, DRIVER SIDE**

*Please refer to the chassis specification for chassis mounted warning lighting specifications.*

*Warning Light Location Not Specified*

#### **ZONE A LOWER, OFFICER SIDE**

*Please refer to the chassis specification for chassis mounted warning lighting specifications.*

*Warning Light Location Not Specified*

#### **ZONE B LOWER FRONT (INTERSECTION)**

*Please refer to the chassis specification for chassis mounted warning lighting specifications.*

*Warning Light Location Not Specified*

#### **ZONE B UPPER FRONT**

##### **WHELEN M9 DUO BLUE/WHITE**

One (1) Whelen Model # M9DE shall be furnished featuring Super-LEDs 6.50" high by 10.40" wide polycarbonate lens.

A chrome finish M9FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Lighting shall be installed on the officer's side of the body in the upper front corner.



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#### **ZONE B UPPER REAR**

##### **WHELEN M9 DUO BLUE/WHITE**

One (1) Whelen Model # M9DE shall be furnished featuring Super-LEDs 6.50" high by 10.40" wide polycarbonate lens.

A chrome finish M9FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Lighting shall be installed on the officer's side of the body in the upper rear corner.

#### **ZONE B LOWER MID**

##### **WHELEN DUO M6 RED/WHITE**

One (1) Whelen Model # M6DD shall be furnished featuring Super-LEDs 4.30" high by 6.80" wide polycarbonate lens.

A chrome finish M6FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Lighting shall be installed on the lower side of the body in the wheel well area on the officer's side.

#### **ZONE D LOWER FRONT (INTERSECTION)**

*Please refer to the chassis specification for chassis mounted warning lighting specifications.*

*Warning Light Location Not Specified*

#### **ZONE D UPPER FRONT**

##### **WHELEN M9 DUO RED/WHITE**

One (1) Whelen Model # M9DD shall be furnished featuring Super-LEDs 6.50" high by 10.40" wide polycarbonate lens.



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A chrome finish M9FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Lighting shall be installed on the driver's side of the body in the upper front corner.

#### **ZONE D UPPER REAR**

##### **WHELEN M9 DUO RED/WHITE**

One (1) Whelen Model # M9DD shall be furnished featuring Super-LEDs 6.50" high by 10.40" wide polycarbonate lens.

A chrome finish M9FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Lighting shall be installed on the driver's side of the body in the upper rear corner.

#### **ZONE D LOWER MID**

##### **WHELEN M6D**

One (1) Whelen Model # M6D shall be furnished featuring Red and White Super-LEDs and a clear 4.30" high by 6.80" wide polycarbonate lens.

A chrome finish M6FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Lighting shall be installed on the lower side of the body in the wheel well area on the driver's side.

#### **ZONE C UPPER DRIVER SIDE**

Following lighting shall be placed on upper left of body, rear facing.

##### **WHELEN M6RC**



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

### **As Per Sourcewell MPCU Contract 2025-12-10**

Two (2) Whelen Model # M6RC shall be furnished featuring 18 red Super-LEDs and a clear 4.30" high by 6.80" wide polycarbonate lens.

A chrome finish M6FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Zone C Upper 2nd Light Model Not Selected

#### **ZONE C UPPER OFFICER SIDE**

Following lighting shall be placed on upper right of body, rear facing.

##### **WHELEN M6BC**

Two (2) Whelen Model # M6BC shall be furnished featuring 18 blue Super-LEDs and a clear 4.30" high by 6.80" wide polycarbonate lens.

A chrome finish M6FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Zone C Upper 2nd Light Model Not Selected

#### **ZONE C LOWER DRIVER SIDE**

##### **WHELEN M6RC**

One (1) Whelen Model # M6RC shall be furnished featuring 18 red Super-LEDs and a clear 4.30" high by 6.80" wide polycarbonate lens.

A chrome finish M6FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Lighting shall be installed in the lower rear on the driver's side of the body.



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

### **As Per Sourcewell MPCU Contract 2025-12-10**

#### **ZONE C LOWER OFFICER SIDE**

##### **WHELEN M6BC**

One (1) Whelen Model # M6BC shall be furnished featuring 18 blue Super-LEDs and a clear 4.30" high by 6.80" wide polycarbonate lens.

A chrome finish M6FC bezel shall be furnished for each light.

Warning light shall be activated by an appropriately labeled control switch in the cab.

Lighting shall be installed in the lower rear on the officer's side of the body.

*Please refer to the chassis specification for chassis installed siren specifications.*

*Please refer to the chassis specification for chassis installed siren speaker specifications.*

*Please refer to the chassis specification for chassis installed air horns.*

#### **INVERTER LINE VOLTAGE SYSTEM**

##### **SHORELINE/LINE VOLTAGE TRANSFER SWITCH**

The following specified line voltage receptacles and/or power strips are to be "dual powered". A transfer switch is to be furnished, wired to both the shoreline and the specified line voltage power sources. System is to automatically transfer the power source for the designated 125 -Volt receptacles/strips (totaling a maximum amperage capacity of 20-Amps), from the Shore Power to the Line Voltage. Transfer is to take place upon start-up of the Line Voltage system.

#### **120V ELECTRICAL SYSTEM AND ACCESSORIES**

The following specified 120 -Volt system shall meet the requirements of NFPA 1901, as it relates to vehicle mounted systems, including but not limited to: Materials, Grounding, Overcurrent Protection, Wiring Methods, Wiring identification, Wet Locations, Dry Locations, Receptacle Listings, Electrical System Testing, Placarding, and Operational Testing.



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

### **As Per Sourcewell MPCU Contract 2025-12-10**

#### **POWER INVERTER, 2000W, 12-VDC-TO 120 VAC**

One (1), Kisae Tech True Sine Wave Inverter is to be furnished, located within the apparatus body, wired to provide line voltage power to the optionally specified 120-volt receptacles. Inverter is to have a maximum power output of 2000 watts at 120-VAC.

#### **125-VOLT 5-20R LINE VOLTAGE RECEPTACLES**

Eleven (11), duplex 5-20R (household), 125-volt, 20-amp, 3-wire plug-in receptacle(s), to be furnished. Receptacle(s) are to be recessed into a single gang outlet box and surface mounted to specified location, provided with a appropriate exterior gasketed hinged cap or stainless steel duplex cover plate. Receptacle's wiring to include: appropriate gauge multi-stranded insulated copper wiring, and a dedicated manual-reset style circuit breaker. A permanently engraved placard, identifying voltage and power source, is to be provided adjacent to receptacle box, and the manual-reset breaker shall also be identified as to receptacle's location.

NOTE: NEMA 5-20R receptacles will accommodate 5-20P plugs and 5-15P plugs.

#### **BODY LINE VOLTAGE RECEPTACLE LOCATION(S)**

The above specified Body Line Voltage Receptacles shall be located in all 7 body compartments, 1 in dunage, 1 in each EMS compartment and 1 behind drivers seat.

#### **PAINT COLOR/CODE**

The paint color (job color) code shall be: red to match existing apparatus..

#### **APPARATUS BODY PAINT PROCESS**

Body surfaces which are to be painted, are to be cleaned using DX436 wax and grease remover. Next, the entire to be painted surface is to be sprayed with F3963 Etching Primer which exhibits very good adhesion and corrosion resistance. A high build primer surfacer, F3975, is to then be applied directly over the etch primer. After allowing the primer surfacer to air dry, the entire unit is to be sanded using dual action sanders leaving a very smooth surface to be painted.

The paint applied to the apparatus shall be PPG Industries Delfleet® Evolution brand, applied throughout a multi-step process including at least two coats of each color and clearcoat finish.

Special attention will be given to proper application of coatings according to the specified film build (wet and dry) recommendations of PPG. Product or technical data bulletins should be consulted for any needed information



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

### **As Per Sourcewell MPCU Contract 2025-12-10**

above that which has been outlined herein. All paint materials shall be prepared and applied in accordance with this specification and the paint manufacturer's latest written recommendation prior to paint application.

The coating shall be baked or air dried. The coatings shall provide full gloss when finished curing and must be suitable for application by conventional pressure air atomizing spray.

Body panels and sub-frame area which cannot be painted after assembly shall be pre-primed and painted prior to main painting process.

The coatings shall not contain lead, cadmium or arsenic. The polyisocyanate component shall consist of only aliphatic isocyanates, with no portion being aromatic isocyanate in character. The solvents used in all components and products shall not contain ethylene glycol, mono-ethyl ethers, or their acetates (commercially recognized as cello solves), nor shall they contain any chlorinated hydrocarbons. The products shall have no adverse health effects or present any unusual hazard to personnel when used according to manufacturer's recommendations for handling and proper protective safety equipment, and for its intended use.

The coating system, as supplied and recommended for application, shall meet all applicable federal, state and local laws and regulations now in force or at any time during the courses of the bid.

The specified apparatus body painted surfaces shall receive the primer coats and the finish coats. These painted surfaces shall have a finish with no runs, sags, craters, pinholes or other defects.

#### **HIGH LUSTER BUFFING**

The specified color painted components (except roll-up door slats) shall be "wet" color sanded with ultra-fine media, machine buffed with rubbing compound and wool pad, machine buffed with glaze and foam pad, and hand wiped to remove residue.

#### **PAINT COLOR**

Finish color of the apparatus body exterior and painted accessories shall be of a single color to match major chassis cab exterior color.

Unless otherwise specified, the chassis frame, axles, and suspension shall remain the OEM color of Black.

#### **COMPARTMENT INTERIORS**

The enclosed compartment interiors, side and rear, are to be metal finish.

Where body material is aluminum, the metal is to have a finish as described in the Paint and Graphics Section of these specifications.

Where metal specified to be stainless steel, the finish is to be mill polished #4-brushed.



## Watertown Fire Department

## Custom Pumper Apparatus

### As Per Sourcewell MPCU Contract 2025-12-10

#### **COMPARTMENT FABRICATED ACCESSORIES**

The optionally specified fabricated compartment accessories (shelves and boards, etc.), are to be unpainted natural smooth metal finish. Where material is aluminum, the metal is to have a machine "swirl-pattern" finish, where metal is stainless steel, the finish is to be #4-brushed.

#### **BODY RE-ASSEMBLY**

During reassembly of all individually painted fabricated components, special care shall be taken to prevent deterioration of top paint coats of mating flanged areas. Fabricated accessory components, which have been removed prior to painting, shall be seal coated where mated to dissimilar metal painted components. Accessory fabrications to be installed using stainless steel button socket head cap screw fasteners. Edges of accessories, where meeting exterior body painted fabrications, shall be properly caulked with G.E. or equal silver metallic body sealant to prevent moisture accumulation between metal layers.

#### **TOUCH-UP PAINT**

One (1), full quart of original finish color top coat paint material shall be provided for use as future touch-up paint.

One (1) sample paint card shall be provided with the apparatus. The card shall show an example of the apparatus body color on one side and have the specific PPG paint formula printed on the reverse side.

#### **MACHINE "SWIRLED" FINISH ON BULKHEAD WIRE COVERS**

The optionally specified interior compartment front and rear bulkhead wire covers are to be abrasive machined, where exposed inside compartment, with a "swirl" pattern, providing a scuff resistant aluminum finish.

#### **MACHINE "SWIRLED" FINISH ON ROLL-OUT TRAY(S)**

The optionally specified two (2) each Roll-Out Tray(s) to be abrasive machined, fully on interior floor and perimeter flanges, with a "swirl" pattern, providing a scuff resistant marbled natural aluminum finish. Swirl machining of the metal surface is to be performed after profile cutting of tray and prior to its fabrication.

#### **MACHINE "SWIRLED" FINISH ON TOOL BOARD(S)**

The optionally specified three (3) each Tool Boards are to be abrasive machined, fully on both sides, with a "swirl" pattern, providing a scuff resistant marbled natural aluminum finish. Swirls are to be 5" in diameter, arranged in a horizontal line, overlapping both horizontally and vertically.

#### **MACHINE "SWIRLED" FINISH ON SHELVES**

The optionally specified six (6) each Shelves are to be abrasive machined, fully on topside and underside, with a "swirl" pattern, providing a scuff resistant marbled natural aluminum finish. Swirl machining of the metal surface is to be performed after profile cutting of shelf and prior to its fabrication.



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

### **As Per Sourcewell MPCU Contract 2025-12-10**

#### **CHASSIS FRAME AND DRIVE TRAIN FINISH, TO REMAIN ORIGINAL OEM FINISH**

The chassis frame assembly is to remain the color and paint quality as received from the chassis manufacturer (OEM). The frame and drive train components are not be repainted.

Components that are considered part of the "frame assembly" are frame rails, cross members, axles, suspension, steering gear and the fuel tank.

#### **DISSIMILAR METALS CORROSION PREVENTION**

In an effort to prevent "dissimilar metals corrosion" all apparatus ferrous and non-ferrous metals shall be isolated from one another, using barrier tapes, vinyl or rubberized coatings, and other methods to isolate the mating surfaces. Where aluminum and steel or stainless steel are "mated", the entire mating surface must be lined or coated, even where surfaces are already prime and/or color coat painted.

Since all fasteners must be stainless steel, it is imperative to provide fasteners with the smallest possible head profile, such as button-socket-head cap screws, in lieu of pan head or truss head screws. Additionally, all screw and nut fasteners shall be coated with "Harpen Wax" to prevent fastener discoloration when exposed to dissimilar aluminum. Rubber and/or vinyl washers shall NOT be used, as they collapse as allow fasteners to loosen.

Where stainless steel piano hinges are bolted to aluminum, the hinge leaf shall first be lined with a brush on undercoating.

#### **ADDITIONAL CORROSION PREVENTION**

In addition to the above specified corrosion prevention, the apparatus shall be assembled using ECK or electrolysis corrosion control, on all high corrosion potential areas, such as door latches, door hinges, trim plates, fenderettes, etc. This coating is a high zinc compound that shall act as a sacrificial barrier to prevent electrolysis and corrosion between dissimilar metals.

All .375" diameter and smaller screws and bolts shall be stainless steel with a wax coating, designed to reduce the potential for electrolysis and corrosion to occur where items are assembled and attached.

#### **REFLECTIVE STRIPING, 6" WIDE, SCOTCHLITE**

A 6" wide horizontal WHITE ScotchLite reflective stripe is to be affixed to the full length of driver side and passenger side of the vehicle, in conformance with NFPA 1901 reflectivity requirement.



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

### **As Per Sourcewell MPCU Contract 2025-12-10**

#### **REFLECTIVE MEDIA (STRIPING), CAB INTERIOR DOORS**

A White ScotchLite or equivalent reflective stripe is to be affixed to the interior of each chassis cab door. The stripes are each to be a minimum of 96 sq. in. so as to meet the NFPA 1901 requirement.

#### **REFLEXITE DIAMONDS TREADPLATE WALK SURFACES 48"+ ABOVE GROUND**

Yellow perimeter marking to indicate designated standing / walking areas above 48" high in compliance with 2016 NFPA 1901 consisting of individual Reflexite diamonds approximately 1" wide.

#### **"Z" JOG IN REFLECTIVE STRIPE**

There shall be a "Z-shaped" jog in the reflective stripe design. Jog shall be located in the mid-section of the apparatus body, uninterrupted by wheelwell cut-out and/or pump control panel.

#### **SCOTCHLITE LETTERING, BLACK SHADED**

Driver's side and passenger's side chassis cab front doors shall be furnished with CAD generated machine cut GOLD ScotchLite lettering, suitably shaded with Black vinyl.

Forty-one (41) to sixty (50) CAD generated machine cut letters, 4.00" tall, highlighted with black vinyl shading shall be provided.

#### **"SPECIAL DESIGN FEES - 1ST TIME MALTESE CROSS EMBLEMS"**

The following specified custom door emblems will be designed by the graphics material supplier.

#### **"MALTESE CROSS EMBLEMS"**

One (1) pair of 12" diameter Maltese Crosses emblems, of simulated gold leaf material, is to be furnished and installed per Fire Dept approval.

#### **"SPECIAL DESIGN FEES - 1ST TIME MALTESE CROSS EMBLEMS"**

The following specified custom door emblems will be designed by the graphics material supplier.

#### **SCOTCHLITE LETTERING, BLACK SHADED**

Driver's side and passenger's side chassis cab front doors shall be furnished with CAD generated machine cut GOLD ScotchLite lettering, suitably shaded with Black vinyl.



## Watertown Fire Department

## Custom Pumper Apparatus

### As Per Sourcewell MPCU Contract 2025-12-10

Forty-one (41) to sixty (50) CAD generated machine cut letters, 4.00" tall, highlighted with black vinyl shading shall be provided.

#### LETTERING DESIGN

The driver's side and the passenger's side (2-each) chassis cab front doors shall be lettered as follows:

The Department name (top row) shall be in an "ARCH", to read: \_\_\_\_\_

The words: **FIRE DEPT.** shall be in a "straight-line" immediately below Fire Department name.

#### VEHICLE NUMBER

The vehicle's assigned number shall be displayed in the following form:

**UNIT / ENGINE / TRUCK** (select one or none) **No. 11**

Lettering shall match the above specified Department name, in style, material, and size; and be located: TBD..

#### CHEVRON STRIPING, REAR OF APPARATUS, ORALITE V98

Up to 48 square feet of NFPA compliant color and pattern 6" multiple diagonal ORALITE V98 (formerly Reflexite) reflective stripes are to be provided, full width at rear of apparatus body. Stripes are to form "Chevrons", using alternating Solid Red/Fluorescent Yellow-Green reflective stripes, only interrupted by the rear apparatus lighting, handrails, steps, and other bolt-on accessories. Chevron patterned material is to be applied on to the flat metal "painted" surface, prior to the final installation of the specified bolt-on (removable) fixtures and accessories. Stripes shall be oriented at 45-degree angle, sloping downward and away from centerline of vehicle.

#### SUCTION HOSE OR SUPPLY HOSE:

##### HARD SUCTION HOSE

Two (2), 10 ft. length(s) of 6" i.d. Maxi-Flex or equivalent flexible suction hose shall be furnished, complete with 6" NST lightweight couplings, long handle swivel female one end, rigid male rocker lug opposite end.



## Watertown Fire Department

## Custom Pumper Apparatus

### As Per Sourcewell MPCU Contract 2025-12-10

#### **SUCTION HOSE STRAINER**

One (1), 6" TFT model A03HNX-JET Low Level style Strainer(s) shall be furnished, for use with specified hard suction hose, equipped with 6" NST rigid female coupling. Strainer shall be equipped with 6" NST-F swivel Long-handled coupling and 1.5" NST-F jet siphon inlet and cap.

Strainer statement from Manufacturer:

*"High volume low-level strainer is made of hard anodized and powder-coated aluminum. Clog-resistant stainless steel filter has over twice as much flow area as a 6" hose. This keeps friction loss down to 0.5 psi (1" Hg) at 1500 gpm and reduces the potential for air vortices to form as water sinks towards the 2.5" minimum usable depth. Oversized sealed ball pivot allows 45° range of hose angle without constricting the flow path. Optional Jet Siphon with 1.5" female hose thread substantially increases suction lift capability. The Jet Siphon is also useful for tank shuttle operations, pump priming and dewatering without the need for a trash pump."*

#### **NFPA REQUIRED FIRE HOSE AND NOZZLES - END USER RESPONSIBILITY**

NOTE In order to meet the current requirements of NFPA 1901 it is acknowledged that the end user will furnish and appropriately mount any and all Fire Hose and Nozzles not listed herein but as required by the most recent standards prior to placing this vehicle in service.

#### **NFPA REQUIRED GROUND LADDERS:**

All Fire Department ground ladders carried on the apparatus shall meet the requirements of NFPA 1901, unless acceptable substitutions are designated.

#### **EXTENSION LADDER**

One (1), Duo-Safety 28 ft. model 1200-A 2-section aluminum ladder shall be furnished, with rope hoist.

#### **ROOF LADDER**

One (1), Duo-Safety 16 ft. model 875-A aluminum roof ladder shall be furnished with folding roof hooks.

#### **MULTI-PURPOSE LADDER, LITTLE GIANT DEFENDER 15187-882**

One (1), Little Giant, Model 15187-882, Defender NFPA approved Little Giant ladder is to be furnished.



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

### **As Per Sourcewell MPCU Contract 2025-12-10**

#### **NFPA REQUIRED ATTIC LADDER:**

The Fire Department Attic Ladder carried on the apparatus shall meet the requirements of NFPA 1901, unless an acceptable substitution is designated.

#### **FOLDING LADDER**

One (1), Duo-Safety 10 ft. model 585-A aluminum folding attic ladder shall be furnished.

#### **FOLDING LADDER TRAY**

A fabricated 4-way aluminum treadplate "tray" shall be furnished, designed to accommodate a DuoSafety folding ladder, location to be customer designated.

#### **PIKE POLE, 6-FOOT FIBERGLASS**

One (1), DuoSafety or equivalent 6 ft. "pike" pole(s), with fiberglass straight pole shall be furnished.

#### **PIKE POLE, 10-FOOT FIBERGLASS**

One (1), DuoSafety or equivalent 10 ft. "pike" pole(s), with fiberglass straight pole shall be furnished.

#### **PIKE POLE MOUNTING(S)**

Please refer to the Apparatus Body Section for description of Pike Pole mounting location(s).

#### **ALL PURPOSE HOOK: PIKE POLE, 4-FOOT FIBERGLASS**

One (1) each, Hooks Unlimited 4 ft. "New York" with fiberglass straight pole, and Roof Hook to be furnished.

#### **ALL PURPOSE HOOK: PIKE POLE, 6-FOOT FIBERGLASS**

One (1) each, Hooks Unlimited 6 ft. "New York" with fiberglass straight pole, and Roof Hook to be furnished.

#### **ALL PURPOSE HOOK: PIKE POLE, 8-FOOT FIBERGLASS**

One (1) each, Hooks Unlimited 8 ft. "New York" with fiberglass straight pole, and Roof Hook to be furnished.



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

### **As Per Sourcewell MPCU Contract 2025-12-10**

#### **AXES - END USER RESPONSIBILITY**

NOTE In order to meet the current requirements of NFPA 1901 it is acknowledged that the end user will furnish, the minimum axes specified prior to putting this vehicle in service.

#### **FIRE EXTINGUISHERS - END USER RESPONSIBILITY**

NOTE In order to meet the current requirements of NFPA 1901 it is acknowledged that the end user will furnish, the minimum fire extinguishers specified prior to putting this vehicle in service.

#### **SPANNER and HYDRANT WRENCH SET**

Three (3) Elkhart model 470 wrench holder(s), each with two (2) spanner wrenches and one (1) hydrant wrench, to be furnished.

#### **STORZ WRENCH (ES)**

Three (3) Harrington model HSSW-401, 4 each Storz wrenches with holder(s) to be furnished and mounted.

#### **ADAPTERS - NFPA REQUIRED**

One (1) double female 2.5" adapter with National Hose (NH) threads shall be furnished, mounted in a bracket fastened to the apparatus.

One (1) double male 2.5" adapter with National Hose (NH) threads shall be furnished, mounted in a bracket fastened to the apparatus.

#### **RUBBER MALLETT**

Three (3) rubber mallet to be furnished suitable for use on suction hose connections, mounted in a bracket fastened to the apparatus.

#### **REDUCER(S)**

Five (5) chrome plated 2.5" NST female x 1.5" NST male reducing adapters with 1.5" NST chrome plated caps shall be furnished.



## **Watertown Fire Department**

## **Custom Pumper Apparatus**

**As Per Sourcewell MPCU Contract 2025-12-10**

### **WHEEL CHOCKS**

Two (2), each Ziamatic model SAC-44, NFPA compliant folding wheel chocks shall be furnished, complete with Ziamatic model SQCH-44H horizontal under body chock holders. Folding chock holders shall be under body mounted, driver's side, ahead of and behind rear wheelwell housing.

### **FOLLOWING ADDITIONAL EQUIPMENT/ACCESSORIES SHALL BE FURNISHED BY END USER:**

#### **FIRST AID KIT - END USER PROVIDED**

NOTE In order to meet the current requirements of current NFPA it is acknowledged that the end user will furnish, a First Aid Kit as specified prior to putting this vehicle in service.

#### **SALVAGE COVERS - END USER PROVIDED**

NOTE In order to meet the current requirements of current NFPA it is acknowledged that the end user will furnish, the minimum Salvage Covers specified prior to putting this vehicle in service.

#### **TRAFFIC FLARES - END USER RESPONSIBILITY**

NOTE In order to meet the current requirements of NFPA 1901 it is acknowledged that the end user will furnish, a minimum of five (5) appropriate traffic warning devices such as highway flares.

#### **TRAFFIC FLARES - END USER RESPONSIBILITY**

NOTE In order to meet the current requirements of NFPA 1901 it is acknowledged that the end user will furnish, a minimum of five (5) appropriate traffic fluorescent traffic cones.

#### **DEFIBRILLATOR - END USER RESPONSIBILITY**

NOTE In order to meet the current requirements of NFPA 1901 it is acknowledged that the end user will furnish, the automatic external defibrillator (AED) specified prior to putting this vehicle in service.

#### **SCBA - END USER RESPONSIBILITY**

NOTE In order to meet the current requirements of NFPA 1901 it is acknowledged that the end user will furnish, the required SCBA (Self-Contained Breathing Apparatus) specified for each seated position, but not fewer than four (4), prior to putting this vehicle in service.

#### **SCBA SPARE CYLINDERS- END USER RESPONSIBILITY**



**Watertown Fire Department**

**Custom Pumper Apparatus**

**As Per Sourcewell MPCU Contract 2025-12-10**

NOTE In order to meet the current requirements of NFPA 1901 it is acknowledged that the end user will furnish and mount in a bracket fastened to the apparatus or stored in a specially designed storage space, the required SCBA spare cylinders required prior to putting this vehicle in service. Each cylinder

**NUTS, BOLTS, SCREWS**

One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit shall be supplied to mount loose equipment items.

**Watertown City Council**

January 13, 2026

<b>Agenda Item:</b>	<b>State Street Storm Sewer Improvements</b>
<b>Request for Action:</b>	<b>Authorization to Prepare Plans &amp; Specifications</b>
<b>Employee/Dept.:</b>	<b>Philip Schrupp, Engineering</b>

**Background:**

The 2026 Capital Improvement Plan (CIP) has identified failing storm sewer along State Street in front of Watertown-Mayer Community Learning Center. The school district recently completed upgrades on its property along State Street. Following these improvements, the school observed storm sewer backups that have the potential to impact school operations and its property. Additionally, Public Works has responded to multiple sinkhole incidents on State Street, further underscoring the urgency of comprehensive storm sewer improvements.

On October 28, 2025, the City Council authorized preliminary survey work to assess existing conditions and inform project planning. This survey has now been completed.

If authorized, plans and specifications for the project will be prepared and presented for Council review and approval by the last meeting in February. The anticipated timeline includes bid opening in early April and project award in late April.

**Budget Impact:**

Stormwater Repairs - General:	UC#075 =	<u>\$290,000</u>
Total Budget:		\$290,000

**Funding Source:**

Capital Improvement General Fund and Utilities Capital Fund

**Recommendation:**

Staff recommends authorizing preparation of plans & specifications for the State Street Storm Sewer Improvements project to include the removal and replacement of the existing storm sewer along State Street.

**Motion Type:**

Simple majority vote of members present.

**Requested Action/Motion:**

*"I move to approve authorize preparation of plans & specifications for the State Street Storm Sewer Improvements project."*

**Attachments:**

State Street Storm Sewer Improvements Project



This map was created using Carver County's Geographic Information Systems (GIS), it is a compilation of information and data from various City, County, State, and Federal offices. This map is not a surveyed or legally recorded map and is intended to be used as a reference. Carver County is not responsible for any inaccuracies contained herein.

Map Date: 10/10/2025

**Watertown City Council**

January 13, 2026

**Agenda Item:** 2026 Facility Study**Request for Action:** Authorization for the 2026 Facility Study**Employee/Dept.:** Philip Schrupp, Engineering**Background:**

The 2026 Capital Improvement Plan (CIP) has identified the need for a comprehensive Facility Study of three key municipal buildings: the Fire Station, Public Works Building, and Water Plant. This study is essential to assess the current condition, functionality, and future needs of each facility. It will provide the City with a clear understanding of necessary repairs, upgrades, and potential expansions, along with cost estimates and recommended timelines. The findings will inform strategic decisions on whether to renovate, expand, or replace these facilities to best serve the growing community.

**Facility Summaries:****Fire Station**

The existing fire station is in good condition and has been modified in recent years to meet the department's short-term needs by repurposing existing spaces. Maintaining and investing in the current facility is cost-effective, as it can be further adapted for future city needs at a lower cost than rebuilding. The station's central location within the fire district supports efficient response for both city and township calls, and any expansion at this site would not require land acquisition.

Triggers for future expansion or addition include:

- Increased call volume, which can lead to responder fatigue in paid-on-call departments. The Watertown Fire Department is currently experiencing call volumes in this range.
- Population growth, which would drive higher call volumes and service needs.
- Desire to lower response times, which may require on-duty staffing and living quarters for firefighters.
- Expanded scope of Fire Department duties or additional administrative needs, which would require more office space.
- Potential use of the facility for law enforcement office and vehicle storage.

Potential scope for a fire station addition includes office space, living quarters, fitness and training areas, historical display space, restroom and locker facilities, additional staff vehicle storage, ADA compliance upgrades, and fire/life safety improvements.

Staff will continue to work with department leadership to ensure all operational needs are considered in the facility study.

**Public Works Building**

The existing Public Works building is in fair condition but requires updates to better serve the needs of the department and the community. As Watertown continues to grow, the department is running out of space to store and maintain all the equipment necessary for operations. A high-level review suggests that a portion of the property acquired by the City in 2024 for the water tower site could be developed for a new Public Works

facility. The remaining portion of the property could be considered for sale or a land swap to support future development opportunities.

**Water Plant**

The water plant is facing several urgent maintenance needs. The roof is in dire need of repairs, and ongoing leaks have resulted in damage to equipment within the facility. In addition to the roof, electrical systems and other general equipment require repair or replacement to ensure reliable operation. The plant’s filters also need to be replaced to maintain water quality standards.

With Watertown’s population increasing, water demand continues to rise. This growth will require expanded water production capacity, including the addition of a new well and, eventually, either a new water plant or an expansion of the existing facility to meet future needs.

If authorized, the completion of the 2026 Facility Study will be completed this summer, and the findings will be presented to the City Council.

**Budget Impact:**

2026 Facility Study Fire Station & Public Works Remodel:	CI#160	\$30,000
<u>2026 Facility Study Water Plant:</u>	<u>CI#160</u>	<u>\$15,000</u>
Total Budget:		\$45,000

**Funding Source:**

Capital Improvement General Fund and Water Capital Fund

**Recommendation:**

Staff recommends authorizing the completion of the 2026 Facility Study for the Fire Station Remodel, Public Works Building, and Water Plant.

**Motion Type:**

Simple majority vote of members present.

**Requested Action/Motion:**

*“I move to authorize staff to proceed the 2026 Facility Study for the Fire Station Remodel, Public Works Building, and Water Plant.”*

**Watertown City Council**

January 13, 2026

<b>Agenda Item:</b>	<b>Wastewater Treatment Plant Clarifier Rehabilitation</b>
<b>Request for Action:</b>	<b>Authorization to Perform Preliminary Assessment, Inspection, &amp; Preliminary Design</b>
<b>Employee/Dept.:</b>	<b>Philip Schrupp, Engineering</b>

**Background:**

The 2026 Capital Improvement Plan (CIP) has identified the Rehabilitation of the Wastewater Treatment Plant Clarifiers. Clarifiers are large tanks that play a key role in cleaning wastewater. Their job is simple but critical: they allow solids—such as grit, organic material, and other particles—to settle out of the water by gravity. This process produces cleaner water that can move on to the next treatment step.

- They remove most of the solids before the water is disinfected and discharged.
- They help the plant run efficiently and meet environmental standards.
- If clarifiers don't work properly, the plant can't produce clean water, which could lead to compliance issues and higher costs.

The clarifiers at the City's plant have been in service for approximately 30 years. They consist of a concrete settling tank which should last 60 years or more and a steel scraper mechanism to collect the settled solids. The scraper mechanism has moving wear parts and protective coatings that require periodic maintenance. While they were kept during the recent upgrade, rehabilitation were exposed during construction needed to maintain performance and reliability.

Currently, the two existing clarifiers are out of service. This presents an ideal opportunity to drain the tanks and thoroughly inspect both the structural and mechanical components of the clarifiers.

Having both clarifiers operational will improve the efficiency of the biosolid removal process. This will reduce the amount of biosolids produced at the plant, resulting in significant cost savings for the City on biosolids disposal fees. By rehabilitating and returning these clarifiers to service, the City can expect lower operational costs and improved overall plant performance.

If authorized, the completion of a Preliminary Assessment, Inspection, & Preliminary Design for the Wastewater Treatment Plant Clarifier Rehabilitation project will be completed this winter, and the findings will be presented to the City Council.

**Budget Impact:**

Estimated Preliminary Assessment, Inspection, & Preliminary Design:	<u>\$15,000</u>
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**Funding Source:**

Capital Improvement Sewer Capital Fund Clarifier Rehab	UC#079=	\$800,000
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**Recommendation:**

Staff recommends authorizing the completion of a preliminary Assessment, Inspection, & Preliminary Design for the Wastewater Treatment Plant Clarifier Rehabilitation project.

**Motion Type:**

Simple majority vote of members present.

**Requested Action/Motion:**

*"I move to authorize staff to proceed with Preliminary Assessment, Inspection, & Preliminary Design for the Clarifier Rehabilitation project."*

**Attachments:**

Wastewater Treatment Facility

Wastewater Treatment Facility Brochure



# WASTEWATER TREATMENT FACILITY





# WASTEWATER TREATMENT FACILITY



The City of Watertown's Wastewater Treatment Facility has been treating the City's wastewater at this location since 1977 when an aerated pond system was constructed. The City was then a small town with a population of about 1,600 people. The facility had a major upgrade to convert it to a mechanical activated sludge facility in 1994 as a result of both growth and new effluent limits. The population at that point had rose over 50% to 2,500 people. The current project has upgraded the facility to meet more stringent phosphorous limits and is designed for a population of 7,000 people. This is nearly 300% of the population at the time of the last upgrade.

The current project planning began in 2015. The City was receiving more stringent limits in the proposed National Pollutant Discharge Elimination System (NPDES) permit from the Minnesota Pollution Control Agency (MPCA) designed to protect the receiving water which is the South Fork of the Crow River. The environmental review, permitting and funding process took some time with the project initiating construction in 2022 and full operation in the fall of 2024. The project had a total cost of approximately \$24 million with \$7 million of that covered by the Point Source Implementation Grant (PSIG) and the remainder financing with State Revolving Fund (SRF) low interest loan program. Gridor Construction of Buffalo, Minnesota performed the construction work.

# How the Facility Works

## Preliminary Treatment

The City's wastewater treatment begins with pretreatment consisting of screening and grit removal. This equipment is located in a new building. The screening removes any foreign materials such as plastics or rags larger than a ¼-inch diameter. These are washed and compacted prior to discharge into a dumpster. The grit removal separates grit and washes that prior to discharge into a dumpster. The first steps protect downstream equipment and pumps from damage while also improving the value of the biosolids as a fertilizer product.

## Biological Treatment

After the preliminary treatment the wastewater enters the activated sludge process where the biological treatment occurs. The first step is an anaerobic contactor that stimulates the biological uptake and removal of phosphorus. Utilizing this natural process reduces costs with lower chemical addition and higher fertilizer value in the biosolids. The second step is the activated sludge process. In this process, the contaminants in the wastewater are biologically treated with a wide variety of naturally occurring micro-organisms that feed on the contaminants converting them to an easily removed and beneficial biomass. The activated sludge utilizes aeration blowers to provide supplemental oxygen for the organisms. The combination of a high concentration of organisms and supplemental oxygen treat the raw wastewater in less than 18 hours versus what may take 180-days in wastewater ponds.

## Clarification and Biosolids

Settling tanks also known as secondary clarifiers follow the aeration tanks and capture the solids generated by the biological treatment process. These solids referred to as biosolids are rich in active micro-organisms, nitrogen, phosphorus and carbon. Solids are recycled back through the aeration tanks for additional treatment while a portion of solids are wasted daily and pumped to the biosolids storage tanks. The biosolids are a valuable source of fertilizer nutrients and widely used on agricultural sites. Solids are typically stored for land application in spring and fall.

## Phosphorus Removal

The City's phosphorus limit is quite low at 0.53 mg/L so an additional chemical is used to convert the soluble or dissolved phosphorus into particles that settle and can be filtered. This ensures more consistent compliance and protection of minor biological process variations.

## Final Treatment

After the clarifiers the water is filtered in disk filters that capture almost all remaining solids further enhancing the phosphorus removal. The final treatment is disinfection with chlorine to protect public health for people that may contact the water in receiving water.



**Watertown City Council**

Date: January 13, 2026

<b>Agenda Item:</b>	<b>Minnesota DNR Local Trail Connection (LTC) Grant Opportunity</b>
<b>Request for Action:</b>	<b>Authorization to Prepare and Submit a DNR LTC Grant</b>
<b>Department:</b>	<b>Engineering, Philip Schrupp</b>

**Background:**

City Staff has identified the Old Mill Park Trail—connecting the Luce Line State Trail to County Road 10/Territorial Street—as a priority improvement segment due to its ongoing deterioration and rising maintenance needs. The Minnesota Department of Natural Resources (DNR) is scheduled to reconstruct the Luce Line Bridge during the winter of 2026/2027, and the Old Mill Park trail segment will serve as an important access connection for that project. Coordinating the City's trail rehabilitation with this state-led improvement presents an opportunity for shared benefit and improved long-term infrastructure performance.

The Minnesota DNR Local Trail Connections (LTC) Grant Program provides funding to support short, meaningful trail links between residential areas and significant public resources, including parks and regional/state trails. The program supports both acquisition and development of trail facilities, provided the resulting trail connection is immediately available for public use.

This grant aligns directly with the City's goals for accessible, connected trail systems and supports long-term reinvestment in community recreation infrastructure.

**Grant Funding:**

- Up to 75% reimbursement of eligible costs
- Max award = \$250,000
- Minimum local match = 25%
- Reimbursement occurs after project costs are incurred and under contract with the DNR

**Funding Priority Criteria:**

- Projects offering significant connectivity
- Projects connecting underserved populations
- Links to state/regional trail systems or high-value public amenities

**Project Description:**

The project involves the full reconstruction of the Old Mill Park Trail to restore its structural integrity, enhance user safety, and provide a durable, long-term connection between residential neighborhoods and the regional trail system. While the total project cost will be further refined during the grant application process, current estimates indicate that the grant application preparation and preliminary engineering efforts will total approximately \$5,000.

**Project Schedule:**

The overall project delivery schedule for the Old Mill Park trail Project is as follows:

March 11, 2026:	LTC Application Feedback Deadline
March 31, 2026:	LTC Application Deadline
Summer 2026:	LTC Award / Rejection Announcement
Winter 2026/2027:	Final Project Scope and Plans based on Award/Rejection
Summer 2027:	Construction of Final Project Scope Based on Above

**Staff is recommending authorization to submit a grant application for the DNR LTC.**

**Budget Impact:**

- Estimated Eligible Project Cost; max \$250,000
- LTC Grant (75%)
- Local Contribution (25%)

Note: This project is not currently funded in the Capital Improvement Plan

**Recommendation:**

Staff recommends authorizing preparation of the LTC grant application for the Old Mill Park Trail.

**Motion Type:**

Simple majority vote of members present.

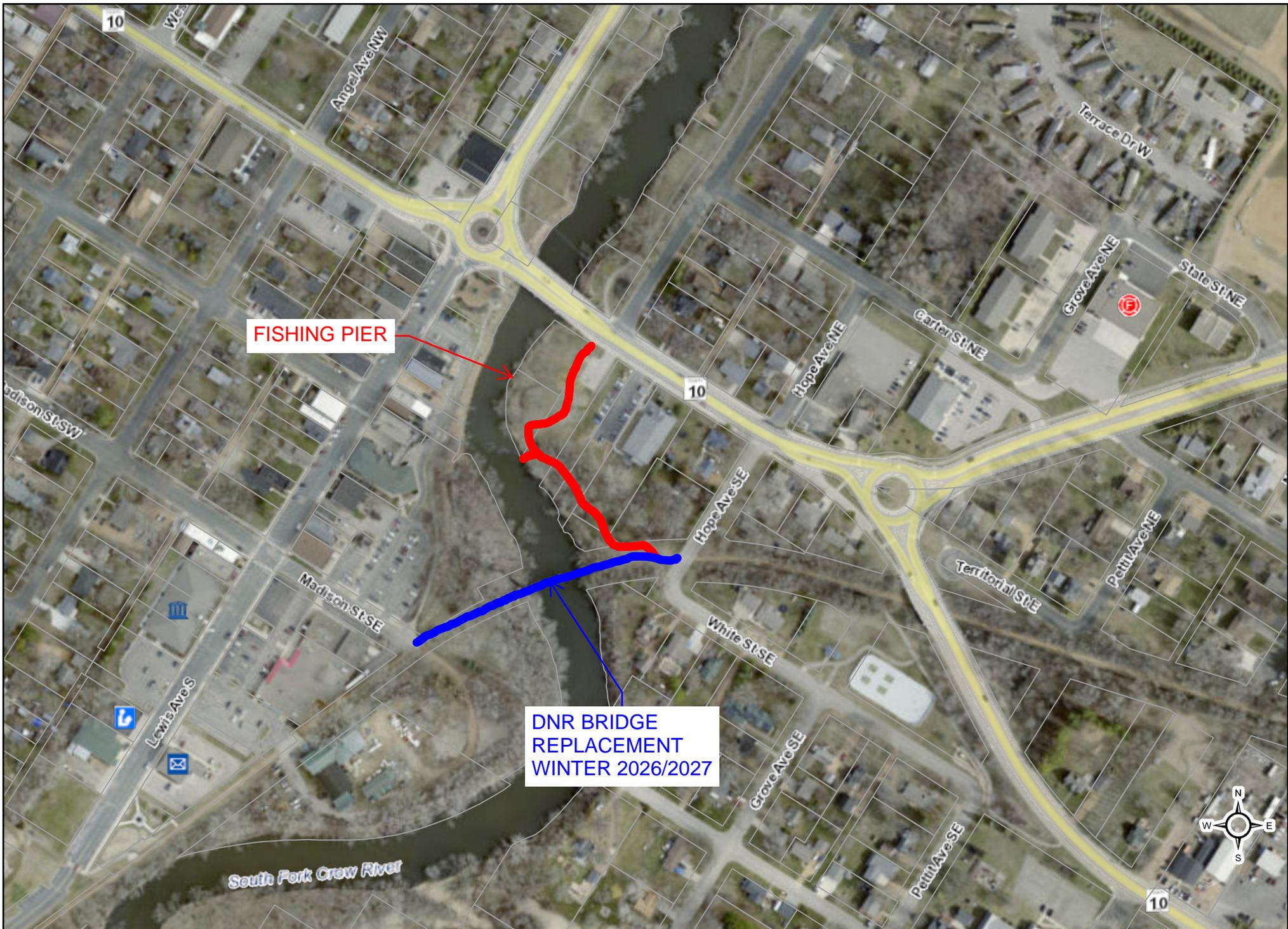
**Requested Action/Motion:**

*"I move to authorize preparation of the DNR – Local Trail Connection LRIP grant application for the Old Mill Park project."*

**Attachments:**

Old Mill Park Trail Location Map

Old Mill Park Trail - Photos



This map was created using Carver County's Geographic Information Systems (GIS), it is a compilation of information and data from various City, County, State, and Federal offices. This map is not a surveyed or legally recorded map and is intended to be used as a reference. Carver County is not responsible for any inaccuracies contained herein.

Map Date: 11/4/2025







**Watertown City Council**

January 13th, 2026

**Agenda Item:** Organizational Statement and Resolution**Request for Action:** Adopt Resolution #2026-01, Organizational Statement and Resolution**Employee/Dept.:** Dan Tolsma, City Administrator**Background:**

Annually, by Minnesota Statutes, the City Council must perform actions that officially designate or state certain roles, responsibilities, duties, and resources of the organization. Many of the functions and roles identified are filled by default or through formal contracts such as engineering, legal, and planning consultants.

Another important process for the organization is the naming of City Council members as liaisons to various City commissions, committees, or other important and mandated roles within the community and region. These are important roles that help connect the City's citizen advisory boards to the Council, or provide representation of the City within the community.

**Attachments:**

Resolution #2026-01

**CITY OF WATERTOWN  
RESOLUTION 2026-01  
RESOLUTION RELATING TO THE  
ORGANIZATION OF THE CITY OF  
WATERTOWN, MINNESOTA**

**BE IT RESOLVED** by the City Council of the City of Watertown, Carver County, Minnesota as follows:

**1. Official Depository:** Pursuant to Minnesota Statute, Chapter 118, the City Council designates the following financial institutions as official depositories for municipal funds:

- a. Old National Bank, Watertown
- b. Citizen's Alliance Bank, Watertown
- c. Other depositories: Northland Securities, RBC Wealth Management, UBS Financial

**2. Official Newspaper:** Pursuant to Minnesota Statute, Section 412.831, the City Council designates the following as its Official Newspaper:

- a. Herald Journal

**3. Acting Mayor:** Pursuant to Minnesota Statute, Section 412.121, Councilmember Everson is appointed Acting Mayor and is to perform the duties of the Mayor during the absence or disqualification of the Mayor or in the case of a vacancy in the Office of the Mayor.

**4. Regular Council Meeting:** The Regular Meeting of the City Council of Watertown is to be held on the second and fourth Tuesday of each month at 6:30 PM at City Hall.

**5. Council Salaries:** The Mayor and Council may be reimbursed for actual and necessary expenses incurred in attending meetings in which they represent the city in an official capacity and training sessions and other meetings in which attendance has been approved by the Council in advance.

The following Council salaries are established:

- a. Mayor - \$450 per month for all Council Meetings and Workshops, payable monthly
- b. Councilmember - \$350 per month for all Council Meetings and Workshops, payable monthly
- c. The Mayor and Councilmembers will be paid \$40 per Commission meeting

**6. Officers, Employees:** The following persons are appointed to the offices indicated below:

- a. City Administrator – Dan Tolsma
- b. City Clerk-Treasurer – Michael Sommerfeld
- c. Fire Chief – Tom Hanson
- d. Data Practices Authority – Deputy City Clerk/Michael Sommerfeld/Dan Tolsma

**7. City Attorney:** The firm of Campbell Knutson, Chartered, Eagan, Minnesota, is appointed the City Attorney. Jack Brooksbank is the primary contact. The City does reserve the right to use other firms as appointed by the Council. The Carver County Attorney's Office shall be used for Criminal Prosecutions.

**8. City Engineer and Watershed Control Administrator:** The firm Bolton and Menk, Chaska, Minnesota, is appointed City Engineer and Watershed Control Administrator. Phillip Schrupp is the primary contact.

**9. Financial Consultant:** The firm Northland Securities, Inc., Minneapolis, Minnesota, is appointed Financial Consultant. Tammy Omdahl is the primary contact.

**10. Planning Consultant:** The firm of Terramark is appointed Planning Consultant. Mark Kaltsas is the primary contact.

**11. Bond Counsel:** The firm Taft Law is appointed Bond Counsel. Mary Ippel is the primary contact.

**12. Insurance Consultant:** The firm Oakwood Insurance Group is appointed as Benefits Insurance Consultant. The firm Oakwood Insurance Group, and the League of Minnesota Cities Insurance Trust (LMCIT) are appointed as Property and Casualty Insurance Consultants. Corey Mitteness is the primary contact.

**13. Building Official:** Derrick Wyman, with SAFEbuilt is appointed Building Official.

**14. Audit Firm:** Abdo Financial Solutions is appointed the Audit Firm and Brad Faltysek as the primary contact.

**15. Civil Defense:** The Fire Chief shall be appointed Civil Defense Coordinator.

**16. Council Committee Assignments:**

- a. Economic Development Authority: Mayor Walters, Council Member Everson
  - b. Commission on Aging: Council Member McGuire
  - c. Carver County Leaders: Mayor Walters
  - d. Parks Commission: Council Member Thul
  - e. Planning Commission: Council Member Kasheimer
  - f. Fire Advisory Board: Council Member McGuire
  - g. Chamber of Commerce: Mayor Walters, Council Member Everson (Alternate)
  - h. Community Education: Council Member Thul
  - i. Public Safety Committee: Mayor Walters, Council Member Thul
- All other Committees will be considered Ad Hoc and appointed as necessary.

**17. Official Posting Site:** Watertown City Hall Display Case, [www.watertownmn.gov](http://www.watertownmn.gov)  
Approved on this 13<sup>th</sup> day of January 2026.

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Michael Walters, Mayor

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ATTEST: Michael Sommerfeld, Administrative Services Director

**Watertown City Council**

January 13, 2026

<b>Agenda Item:</b>	<b>Statement of Concern Regarding Mismanagement of Public Funds</b>
<b>Request for Action:</b>	<b>Approve Resolution 2026-02 Expressing Concern for Mismanagement of Public Funds by the State Government of Minnesota</b>
<b>Employee/Dept.:</b>	<b>Dan Tolsma, Administration</b>

**Background:**

Several reports of fraud in state programs have been publicized recently, with the U.S. Attorney's Office estimating the total amount of fraud to potentially be as high as \$9 billion.

**Discussion:**

Multiple Councilmembers have expressed interest in passing a resolution to express concern and demand accountability regarding the ongoing reports of fraud at the state level. If passed, the resolution would be shared with Watertown's state representatives and other Minnesota state government officials.

**Motion Type:**

Simple majority vote of members present.

**Requested Action/Motion:**

*"I move to approve Resolution 2026-02 expressing concern regarding the stewardship and oversight of state taxpayer funds and calling for transparency and accountability."*

**Attachments:**

Resolution 2026-02

**RESOLUTION NO. 2026-02  
CITY OF WATERTOWN, MINNESOTA**

**A RESOLUTION EXPRESSING CONCERN REGARDING THE STEWARDSHIP  
AND OVERSIGHT OF STATE TAXPAYER FUNDS AND CALLING FOR  
TRANSPARENCY AND ACCOUNTABILITY**

**WHEREAS**, the City of Watertown has a fiduciary responsibility to its residents to advocate for the responsible, lawful, and transparent use of taxpayer dollars; and

**WHEREAS**, public confidence in government depends on effective oversight, accountability, and proper stewardship of public funds at all levels of government; and

**WHEREAS**, recent reports, investigations, and public disclosures regarding the administration and oversight of certain state-administered programs have raised serious concerns among residents and local officials regarding the use, monitoring, and safeguarding of taxpayer funds; and

**WHEREAS**, the U.S. Attorney for the District of Minnesota has estimated that more than \$9 billion in taxpayer funds have been lost to fraud, waste, abuse, or mismanagement, representing a staggering breach of public trust; and

**WHEREAS**, these concerns have contributed to growing public mistrust in the State of Minnesota's ability to ensure that taxpayer dollars are used as intended and protected from fraud, waste, or abuse; and

**WHEREAS**, local governments, including the City of Watertown, rely on the integrity of state systems to responsibly manage public resources and maintain public confidence; and

**WHEREAS**, it is appropriate and within the authority of the City Council to formally express its concerns and advocate for greater accountability and transparency on behalf of its residents;

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WATERTOWN, MINNESOTA, THAT:**

1. The City Council of Watertown formally expresses its concern and loss of confidence regarding the oversight and administration of certain state-managed taxpayer funds.
2. The City Council expresses its deep disappointment in the failure of state systems to protect taxpayer dollars and prevent large-scale fraud, waste, and abuse.
3. The City Council calls upon the State of Minnesota to take meaningful and timely action to strengthen financial controls, oversight mechanisms, and transparency related to the administration of public funds.

4. The City Council respectfully requests independent review, legislative oversight, and appropriate investigations, where warranted, to restore public trust and ensure accountability.
5. The City Council urges state leaders to prioritize reforms that protect taxpayers, ensure proper stewardship of public resources, and prevent future misuse of funds.
6. The City Council encourages other Minnesota cities, townships, and counties to adopt similar resolutions to collectively affirm that local governments demand accountability, transparency, and responsible stewardship of public funds.
7. This resolution shall be transmitted to the Office of the Governor, members of the Minnesota Legislature representing the City of Watertown, the Office of the Legislative Auditor, and other appropriate state officials.

**Adopted by the City Council of the City of Watertown, Minnesota, this 13<sup>th</sup> day of January, 2026.**

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Michael Walters, Mayor

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Deborah Everson, Councilmember

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Jim Kasheimer, Councilmember

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Fred McGuire, Councilmember

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Kay Thul, Councilmember

ATTEST:

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Michael Sommerfeld, Administrative Services Director

**Watertown City Council**

January 13, 2026

**Agenda Item: 2026 Fee Schedule****Request for Action: Adopt Ordinance #451, approving the 2026 fee schedule****Department: Michael Sommerfeld, Administrative Services Director**

**Background:** With the approval of the 2026 budget, the fee schedule ordinance needs to be updated with increases to utility rates and fees. With the City Council approval, staff will publish the updated fee schedule information in the official newspaper and update Ordinance #451 on the City's website.

**Fee Updates:**

Administrative – Increases to cigarette license and community center rates.

Liquor – No Changes.

Utility Rates – Changes being made per approved Rate Study and 2026 Budget, change to \$67 per 1000 gal. for commercial dumping.

Planning – No Changes.

Parks – Adding new rates for Highland Park and increases to park use rates.

Permits – No Changes .

Public Works – Additions for new equipment. Increases to various equipment use fees to recoup costs.

Fire Department – Addition of fee for lift assists at group homes/assisted living facilities. Increases to some staff/equipment fees.

Right Of Way – No Changes.

Staff Charges – No Changes.

**Recommendation:**

Staff is recommending that the City Council adopt Ordinance 451 that would approve the 2026 Permits, Licenses, and Fee Schedule and to authorize summary publication.

**Requested Action/Motion:**

"I make a motion to approve Ordinance 451 approving the 2026 Permits, Licenses, and Fee Schedule and to authorize summary publication.

**Attachments:**

Ordinance

Summary Ordinance

2026 Fee Schedule

**CITY OF WATERTOWN  
ORDINANCE NO. 451**

**AN ORDINANCE ESTABLISHING THE 2026 PERMITS, LICENSES AND FEES SCHEDULE**

**The City Council of the City of Watertown does hereby ordain:**

**SECTION 1.** That the following attachment is the 2026 Permits, Licenses and Fees Schedule, and is effective, January 1, 2026.

**SECTION 2.** This Ordinance shall become effective upon passage, approval, and publication according to law.

Adopted by the City Council of the City of Watertown this 13<sup>th</sup> day of January 2026.

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Michael Walters, Mayor

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Michael Sommerfeld, Administrative Services Director

**ORDINANCE SUMMARY**

**ORDINANCE NO. 451**

**CITY OF WATERTOWN**

The following official summary of Ordinance No. 451 has been approved by a vote of the City Council of the City of Watertown as clearly informing the public of the intent and effect of the Ordinance:

AN ORDINANCE ESTABLISHING THE 2026 PERMITS, LICENSES AND FEES SCHEDULE has been approved to include fees that are based on the City of Watertown's approved 2026 budgets and are effective January 1, 2026.

The full text of the ordinance is available for public inspection during regular office hours at the office of the City Clerk, 309 Lewis Ave South, Watertown, and shall be posted by law. Any person may request the city to send the full text of the ordinance via standard electronic mail by calling City Hall at 952-955-2681.

**2026 Administrative Fees**

Type	Terms & Conditions	2026 Fee		
<b>Business Licenses and Permits</b>				
	Adult Use License Application Fee	\$ 20,000.00		
	Adult Use License Application Investigation Fee	\$ 5,000.00		
	Adult Use License Renewal Fee	\$ 5,500.00		
	Pawn Shop License	\$ 10,000.00		
	Cigarette License	\$ 250.00		
	Fireworks Sales and Display Permit	\$ 200.00		
	Garbage Hauler Permit	\$ 100.00		Plus \$50 per truck
	Mobile Home Permit	\$ 20.00	Per Pad	
	Mobile Food Unit	\$ 100.00		Annual
	Peddler Permit	\$ 100.00		Annual

+ 150

<b>Community Center Rental</b>			8.375% Tax Rate		
Resident	Non-Resident		Resident	Non-Resident	
\$ 150.00	\$ 200.00	One Room	\$ 162.56	\$ 216.75	Includes Tax
\$ 225.00	\$ 325.00	Two Rooms	\$ 243.84	\$ 352.22	Includes Tax
\$ 300.00	\$ 450.00	Three Rooms	\$ 325.13	\$ 487.69	Includes Tax
\$ 20.00	\$ 25.00	One Room (Mon - Thu) City Hall Hours Hourly Rate	\$ 21.68	\$ 27.09	Includes Tax
	Damage Deposit	One Room	\$ 250.00	\$ 250.00	
	Damage Deposit	Two or Three Rooms	\$ 500.00	\$ 500.00	

+ 25

+ 25

+ 25

+ 10

<b>Copy and Fax Costs</b>		B&W	Color	
	Copy / Fax	\$ 0.25		per page
	8 1/2 x 11	\$ 0.25	\$ 0.50	per page
	11 x 17	\$ 0.50	\$ 1.00	per page
	Custom Printing (Large format)	\$ 5.00	\$ 7.50	per page
	Electronic Copies (Comp Plan, design standards, studies, etc.)	\$ 25.00		
	Video Tape Dubbing	\$ 25.00		

**2025 Administrative Fees**

<b>Fines</b>		<b>Terms and Contions</b>		
	Code Violations	Includes but not limited to: weeds, mowing, trash	\$ 50.00	Plus actual cost incurred
	Smoking Violation	Underage smoking	\$ 75.00	
	Vehicle Impound	Towing Fee and Administrative Fee	\$ 50.00	Plus cost of tow
	Impound Storage	Per 24 hours	\$ 15.00	

<b>Pet Fees and Fines</b>				
	Dog Off Leash		\$ 35.00	
	Animal Pick-up Charge		\$ 50.00	
	Impoundment Fines	1st Offense	\$ 35.00	Kennel fees not included
		2nd Offense	\$ 75.00	Kennel fees not included
		3rd Offense	\$ 100.00	Kennel fees not included

<b>Service Fees and Miscellaneous</b>				
	Public Notice & Mailing		Cost plus \$50 min staff time	
	Recording Fees		Cost plus \$50 min staff time	
	Rental Housing inspection			Per Rental Inspection Ord.
	Returned Check Charge		\$ 29.00	
	Election Filing Fee		\$ 15.00	
	Deliquent Charge Certification		\$ 50.00	
	Special Assessment Search		\$ 25.00	
	Municipal Subsidy Application Escrow	(application for Tax Increment Financing, Tax Abatement, etc.)	\$9,000	

## 2026 Liquor Fees

Type

3.2% Malt Liquor On-Sale	\$ 200.00	
3.2% Malt Liquor Off-Sale	\$ 240.00	
Consumption & Display, Bottle Club	\$ 300.00	\$250 state license fee + \$50 City license fee
Consumption & Display, One Day	\$ 25.00	
Bed and Breakfast On-Sale Wine License	\$ 250.00	
Wine/Strong Beer License On-Sale (this includes Sunday sales)	\$ 250.00	
Off-Sale Intoxicating Liquor License	\$ 240.00	State Maximum allowed by law
Off-Sale Small Brewer	\$ 300.00	Includes Sunday Growler sales
Off-Sale Brew Pub	\$ 300.00	Includes Sunday Growler sales
Off-Sale Microdistillery	\$ 240.00	State Maximum allowed by law
On-Sale Intoxicating Liquor License	\$ 5,000.00	
Sunday On-Sale Intoxicating liquor	\$ 200.00	
On-Sale Brewer Tap Room	\$ 300.00	
On-Sale Brew Pub	\$ 300.00	
On-Sale Microdistillery Cocktail Room	\$ 300.00	
Temporary 3.2% Malt Liquor On-Sale	\$ 10.00	One Day
Temporary 3.2% Malt Liquor On-Sale	\$ 30.00	Multi day up to 3 days
Temporary Liquor On-Sale	\$ 50.00	One day
Temporary Liquor On-Sale	\$ 200.00	Multi day up to 4 days
License Investigation Fee	\$ 500.00	All License Types/Deposit Plus Additional Costs if Any
2 a.m. License	Varies	Set by State on Application

**2026 Utility Fees**

Type	Terms and Conditions	2026 Fee	
<b>Sewer - Monthly</b>			
Monthly Basic Charge	Rate per ERU (Equivalent Residential Unit)	\$ 33.05	+ 4.31
1 to 2,000 gallons	Usage: 1-2000 gallons	\$ 4.55	+ 0.59
2001 + gallons	per 1000 gallons PLUS rate shown above	\$ 9.59	+ 1.25
Commercial Sewage Dumping	per 1000 gallons	\$ 67.00	+ 4.00
Non-metered sewer		\$ 13.02	

<b>Stormwater - Monthly</b>			
Monthly Basic Charge		\$ 11.00	+ 3.00

<b>Water - Monthly</b>			
Water Base Charge	Rate per ERU (Equivalent Residential Unit)	\$ 21.78	+ 1.08
Minnesota Water Testing Fee		\$ 1.26	+ 0.39
1-2,000 gallons	per 1000 gallons	\$ 2.33	+ 0.12
2001-8000	per 1000 gallons PLUS rate shown above	\$ 4.53	+ 0.22
8001-15000	per 1000 gallons PLUS rate shown above	\$ 5.51	+ 0.27
15001-50000	per 1000 gallons PLUS rate shown above	\$ 5.83	+ 0.29
50000+	per 1000 gallons PLUS rate shown above	\$ 6.46	+ 0.32
Hydrant Use	Minimum Charge	\$ 7.18	+ 0.35
Hydrant Meter deposit	Refundable if returned in preexisting condition	\$ 500.00	
Utility Penalty (late fee)	10% of unpaid balance per month		

<b>Utility Area Charges</b>			
Sewer Area Charge		\$ 4,495.18	Per acre + 586.33
Water Area Charge		\$ 1,002.92	Per acre + 49.57

**2025 Utility Fees**

<b>Utility Connection Charges</b>	Terms and Conditions
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	Sewermain Trunk Charge	Fee is per ERU	\$ 6,014.50	
	Sewer Inspection Fee		\$ 60.00	
	Storm System Charge	Fee is per ERU	\$ 2,592.10	
	Watermain Trunk Charge	Fee is per ERU	\$ 4,636.80	
	Water Inspection Fee		\$ 57.00	
	Water Meter Reinspection fee		\$ 134.00	
		Radio Remote (MXU Only)	\$ 195.00	
	5/8" Meter, MXU, horns and connections	Minimum 1 hour installation	\$ 550.00	
	1" Meter, MXU, horns and connections			Material Costs
	1 1/2" Meter, MXU and flanges			Material Costs
	2" Meter, MXU and flanges			Material Costs
	2" C2 compound, MXU and flanges			Material Costs
	3" C2 compound, MXU and flanges			Material Costs
	4" C2 compound, MXU and flanges			Material Costs
	Water Service Involuntary Disconnect Charge		\$ 155.00	
	Water Service Voluntary Reconnect & Disconnect Charge		\$ 52.00	irrigation only
	Water Service Involuntary Reconnect Charge		\$ 155.00	

<b>Utility Miscellaneous</b>				
	Televise Lines	2 person crew - 1 hour minimum	\$ 175.00	Per hour
	Utility research	Minimum 1 hour charge	\$ 50.00	Per hour
	Water Meter Testing Fee		\$ 50.00	
	Utility Franchise Application Fee		\$ 5,000.00	
	Utility Franchise Escrow		\$ 5,000.00	

<b>Watering Restrictions</b>				
		1st Offense		Warning/Citation
		2nd Offense	\$ 75.00	
		3rd Offense	\$ 250.00	

## 2026 Planning Zoning Fees

Type

Terms and Conditions

Escrow Deposits					
Cell/Antenna Tower	Prior to site plan review/CUP	\$10,000.00			
Environmental Assessment Worksheet	Costs accumulated by city		Cost estimate		
New Development Escrow	Required as part of sketch plan application	\$15,000.00			
Project Deemed Necessary by Council		\$10,000.00			
Resident or Non-Resident Requested feasibility study	Council Approval Required		Cost plus \$1,500 escrow		
Developer shall maintain the escrow account in good standing throughout the planning process. If the escrow account falls below a zero balance, the city may stop all work on the project until the account is replenished to the pre-determined amount. Any remaining funds in the escrow account will be refunded upon completion of the project and acceptance by the city.					

Planning and Zoning Fees					
Annexation Application Fee	5 acres or less	\$200.00			
Annexation Application Fee	Greater than 5 acres	\$500.00			
Appeal		\$200.00			
Engineering Grading Survey Review			Cost incurred by City		
Vacation of Property, Public Right-of-Way and Easements		\$250.00			
Zoning Permit (Fences 6' or less, swimming pool, shed less than 120 SF, pa	One Time Administrative Fee	\$75.00			
Subdivision Plat Extension		\$50.00			
Subdivision	Sketch Plan	\$500.00			
	Preliminary Plat	\$500.00	Plus \$10 per lot		
	Final Plat	\$400.00	Plus \$10 per lot		
Petition for Municipal Services	One Time Administrative Fee	\$250.00	Non-Refundable		
	Escrow	\$1,500.00			
Comprehensive Plan Amendment	One Time Administrative Fee	\$750.00	Non-Refundable		
	Escrow	\$2,500.00			

### 2025 Planning Zoning Fees

Planning and Zoning Fees Continued		One Time Administrative Fee	Escrow			
	Boundary Adjustment/Lot Split	\$500.00	\$1,500.00			
	Conditional Use Permit, Variance, Interim Use Permit	\$500.00	\$1,500.00			
	Minor Subdivision (Lot division or consolidation)	\$500.00	\$1,500.00			
	Site Plan	\$500.00	\$1,500.00			
	Site Plan Amendment	\$500.00	\$1,500.00			
	Rezoning	\$500.00	\$1,500.00			
	Zoning Text Amendment	\$500.00	\$1,500.00			
	Other Planning Requests of the City Council	\$500.00	\$1,500.00			
	<p>In addition to the application fee, the applicant for development plan review must also pay all costs incurred by the City including City staff time, legal, engineering, administrative, building inspection services, and services of other persons or entities employed or contracted by the City for, or in any way involved in, the review and inspection of the development plan and public utility extensions contemplated thereby, including but not limited to streets, sidewalks, trails, water lines, sanitary sewer lines, storm sewer lines, street lights, electric and gas lines, water retention areas and all other improvements intended for public use or benefit constructed or caused to be constructed by the owner and under no condition shall the fee be refunded for the failure of the City to approve the development plan. All charges incurred for this review shall be the sole responsibility of the applicant.</p>					
	All fees are doubled for after the fact applications					

Miscellaneous						
	Driveway Deposit		\$	1,000.00		

Meetings						
	Regular Meeting	Planning or City Council	\$	100.00		
	Special Meeting Fee	Planning Commission	\$	200.00		
		Park Commission	\$	200.00		
		City Council	\$	250.00		
	Sign Permit		\$	100.00		
	Sign Permit Appeal Fee		\$	500.00	Plus \$1,500 Escrow	

**2026 Park Fees**

Type	Terms and Conditions			
Annual Field Use Fee (Watertown Organization/Team)	Per Season (spring, summer, fall, winter)	\$ 300.00	Plus Tax	8.375% Tax Rate
<del>Non-Watertown Organization/Team Seasonal Field Use Fee-</del>	<del>Per Season (spring, summer, fall, winter)</del>	<del>\$ 500.00</del>	<del>Plus Tax</del>	<del>MOVED</del>
Short Season Field Use (Watertown Organization/Team)	Less than 12 events including practice	\$ 100.00	Plus Tax	+ 25
Field Use Fee (Watertown Organization/Team)	Per Day	\$ 50.00	Plus Tax	NEW
Field Use Fee (Outside Organization/Team)	Per Day	\$ 75.00	Plus Tax	+ 15
Resident Park Facility Reservation Fee	Per Day	\$ 40.00	Plus Tax	
Non-Resident Park Facility Reservation Fee	Per Day	\$ 60.00	Plus Tax	
<del>Concession Usage Fee (Per Year)</del>	<del>Per Year</del>	<del>\$ 50.00</del>	<del>Plus Tax</del>	
Highland Park Annual Field Use Fee (Watertown Organization/Team)	Per Season (spring, summer, fall, winter)	\$ 400.00	Plus Tax	NEW
Highland Park Short Season Use Fee (Watertown Organization/Team)	Less than 12 events including practice	\$ 150.00	Plus Tax	NEW
Highland Park Field Use Fee (Watertown Organization/Team)	Per Day	\$ 80.00	Plus Tax	NEW
Highland Park Field Use Fee (Outside Organization/Team)	Per Day	\$ 120.00	Plus Tax	NEW
Highland Park Lights (Outside Organization/Team)	Per Day	\$ 60.00	Plus Tax	
Highland Park Single Event (Circus, Race, Event, etc.)	Per Day	\$ 400.00	Plus Tax	NEW
Damage/Cleanup Deposit Highland Park Single Event		\$ 400.00		NEW
Single Event (Circus, Race, Event, etc.)	Per Day	\$ 300.00	Plus Tax	+ 50
Damage/Cleanup Deposit Single Event		\$ 300.00		+ 50
Deposit per key (Concessions, Press Box, Restrooms, Warming House)		\$ 60.00		+ 35
Damage Deposit for concession Stand		\$ 100.00		
Damage Deposit for scoreboard remote		\$ 100.00		
Damage Deposit for shelter/general use		\$ 100.00		
Damage/Cleanup Deposit Single Event		\$ 250.00		
<del>Hockey Rink Lights</del>		<del>\$ 60.00</del>	<del>Per use</del>	<del>REMOVED</del>
<del>Key Deposit</del>	<del>Concessions, press box, restrooms, warming house</del>	<del>\$ 25.00</del>	<del>Per key</del>	<del>MOVED</del>

<b>Park Dedication</b>	Valuation per acre	\$ 40,000.00
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<b>Tree Replacement Fee</b>	Per caliper inch for trees not replaced	\$100.00
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## 2026 Building Permit Fees

	Total Valuation	Fees			
<b>Permit Fees</b>	\$0 to \$2,000.00	\$75.00 minimum. \$28.00 for the first \$500.00 plus \$3.70 for each \$100.00 or fraction thereof, to and including \$2,000.00.			
	\$2,001.00 to \$25,000.00	\$83.50 for the first \$2,000.00 plus \$16.55 for each additional \$1,000.00 or fraction thereof, to and including \$25,000.00.			
	\$25,001.00 to \$50,000.00	\$464.15 for the first \$25,000.00 plus \$12 for each additional \$1,000.00 or fraction thereof, to and including \$50,000.00.			
	\$50,001.00 to \$100,000.00	\$764.15 for the first \$50,000.00 plus \$8.45 for each additional \$1,000.00 or fraction thereof, to and including \$100,000.00.			
	\$100,001.00 to \$500,000.00	\$1,186.65 for the first \$100,000.00 plus \$6.75 for each additional \$1,000.00 or fraction thereof, to and including \$500,000.00.			
	\$500,001.00 to \$1,000,000.00	\$3,886.65 for the first \$500,000.00 plus \$5.50 for each additional \$1,000.00 or fraction thereof, to and including \$1,000,000.00.			
	\$1,000,001.00 and up	\$6,636.65 for the first \$1,000,000.00 plus \$4.50 for each additional \$1,000.00 or fraction thereof.			
Permit Valuations will be based on the supplied construction value with a minimum of the calculated value from the approved building department valuation schedule					
<b>Building Permit Fee:</b>					
	Schedule is 100% of the above fee schedule for Residential and Commercial Projects.				
	(Includes all Residential and Commercial building permits, Commercial plumbing permits, Commercial Mechanical permits, fire alarm/suppression permits, demolitions, etc.) when plan review is required - all permits are valuation-based unless otherwise specified)(Fences over 7', sheds over 200 sq. ft, and retaining walls over 4' required a building permit)				
	Residential Building Permit: \$75.00 minimum				
	Commercial Building Permit: \$75.00 minimum				
	Commercial Plumbing Permit: \$75.00 minimum				
	Commercial Mechanical Permit: \$75.00 minimum				
<b>Plan Check Fee:</b>					
	65% of the Building Permit fee for Residential and Commercial Projects				
	Master Plan: For similar plans submitted under a master plan: 25%.				
	Review of State-Approved Plans: 25% of the plan review required by the adopted fee schedule (for orientation to the plans)				
<b>State Surcharge Fee:</b> For Residential and Commercial Projects					
	Schedule is based on the currently adopted State Surcharge Table - per MN Statute 326B. State Surcharge is applicable on all permits unless otherwise noted.				
<b>Building Site Condition Escrow</b> (erosion control & infrastructure protection): \$2,000					
<b>Sediment &amp; Erosion Control Fee:</b>					
	.0006 x permit valuation for all Building Permits except Re-Roof, Re-Side, Re-Window, Decks and Interior Remodels.				
	Minimum \$150.00 New Home or Commercial Construction, Minimum \$50.00 on any other non-exempt Construction.				
<b>Inspections and Other Fees:</b>					
	Reinspection fee: \$50.00				
	Additional plan review required by changes, additions, or revisions to approved plans: \$75.00 (one-half hour minimum)				
	Inspections for which no fee is specifically indicated (minimum ½ hour): \$75.00				
	Commercial Site Inspection (includes initial SEC), required on all new construction (new building and accessory structures): \$90.00				
	Residential Site Inspection (includes initial SEC), required on all new construction (new homes, detached garages, and accessory structures): \$60.00				
	Building Site Condition Escrow (erosion control & infrastructure protection): \$2,000				
	Inspections outside of normal business hours (will include travel time both ways – 2 hour minimum): \$75.00				
	Copy Charge (black/white 8.5x11 and 8.5x14) \$.25/sheet				
	Copy Charge (black/white 11x17) \$.50/sheet				
	Copy Charge (color 8.5x11 and 8.5x14) \$1.00/sheet				
	Copy Charge (color 11x17) \$2.00/sheet				

	Print or copy charge (large plan sheet) \$4.00			
	Change of Use Permit: \$100.00			
	Duplicate Inspection Record: \$25.00			
	Permit Extension/Renewal within 6 mos. of expiration (no plan changes, no code changes, new permit number issued): 50% of original permit fee			
	Permit Renewal after 6 mos. of expiration (new permit required): based on valuation of remaining work (requires new permit)			
	License Look-Up (Contractor License Verification): \$5.00 (326B.815)			
	Lead Certification (for eligible construction) Contractor Lead Certification Verification): \$5.00			
	Temporary Certificate of Occupancy – Escrow (less costs to administer): City fee TBD			
	Refunds (MN Rules Chapter 1300.0160 Subp. 9 “The municipality shall establish a permit and plan review refund policy.”)			
	o Plan Review (if plan review has not started): no charge			
	o Plan Review (if plan review has started): 0%			
	o Permit fee (if work not started) within 6 months of permit issuance by municipality): 75%			
	o Maintenance Permits (OTC): 0%			
	<b>Special Investigation Fee: 100% of permit fee.</b>			

<b>Commercial Mechanical and Plumbing Fees</b>				
	Based on valuation (plan review required) - includes commercial water heater			
<b>Residential Plumbing Permit Fees</b>				
	New/Replacement Fixtures: \$10 per fixture with a \$75 minimum			
	Irrigation System: \$75			
<b>Residential Mechanical Permit Fees</b>				
	New/Replacement Appliances: \$75 (minimum) \$37.50 each			
	Gas Fitting with Mechanical permit: \$50 (includes all gasline/fittings)			
	Gas Line only permit: \$75.00 (includes all gas lines)			
<b>Residential Maintenance Permits</b>				
	Reroof, Reside, Window Replacement, Door Replacement, Garage Door Replacement: \$75.00			
<b>Permit Fees</b>				
	Deck Permit fee	Permit valuation plus state surcharge		
	Demolition	Based on valuation (plan review required) plus state surcharge		
	Fencing over 7 Feet	Based on valuation (plan review required)		
	Fireplace - Wood	Permit valuation + Plan Review plus state surcharge		
	Irrigation - Commercial	Permit valuation (backflow preventer included) plus state surcharge		
	Pre-Fabricated SFD	\$250 plus state surcharge		
	Pre-Fabricated Foundation	Permit valuation + Plan Review plus state surcharge		
	RPZ Backflow Preventer - Commercial	Based on valuation (plan review required)		
	Reroof - Residential	\$75.00 plus state surcharge		
	Reroof - Commercial	Based on valuation (plan review required)		
	Residing - Residential	\$75.00 plus state surcharge		
	Retaining Wall - Residential 4+ feet from footing	Based on valuation (plan review required)		
	Retaining Wall - Commercial	Based on valuation (plan review required)		
	Septic - Residential	\$100.00 plus state surcharge		
	Water Heaters - Residential	\$75.00 plus state surcharge		
	Water Heaters - Commercial	Based on valuation (plan review required)		
	Water Softeners	\$75.00 plus state surcharge		
	Window/Door/Garage Door Replacement - Residential	\$75.00 plus state surcharge		
	Window Replacement - Commercial	Based on valuation (plan review required)		

		Zoning Permit (Fences, swimming pool, accessory structures, patio, etc. - a building permit and/or variance may also be required)	\$75.00		
Anything not listed above the permit cost is based on valuation, unless determined by the Building Official.					

<b>Move-In</b>					
		Pre-Move Inspection: \$180.00 each			
		Moved-In Structure (not including foundation, interior remodel, etc.): \$300.00 each			
		Move-In Mobile Home (not including foundation, interior remodel, etc.): \$500.00 each			

### 2026 Public Works Fees

Equipment	Terms and Conditions	Charge	
GMC 1 Ton		\$ 50.00	Per hour
GMC 1 Ton	with Plow and Sander	\$ 130.00	Per hour
GMC 1 Ton	with Chip Box and Dump Fee	\$ 200.00	Per hour
Vermeer BC 1500 Chipper		\$ 150.00	Per hour
F-550 Bucket Truck		\$ 125.00	Per hour
Generator - 20 hp		\$ 30.00	Per hour
Generator - Portable		\$ 20.00	Per hour
Jetter/Vac	with 2 Staff	\$ 250.00	Per hour
Toro Grounds Master 7210	with 100" Deck	\$ 100.00	Per hour
Toro Grounds Master 7210	with Broom	\$ 80.00	Per hour
Toro Grounds Master 7210	with Snow Blower	\$ 80.00	Per hour
Toro Grounds Master 7210	with V-Plow	\$ 80.00	Per hour
John Deere 4075R		\$ 100.00	Per hour
John Deere 4075R	with Blower	\$ 160.00	Per hour
John Deere 4075R	with Flail Mower	\$ 160.00	Per hour
John Deere 4075R	with 14' Mower	\$ 160.00	Per hour
Tool Cat	with Bucket	\$ 75.00	Per hour
Tool Cat	with Snow Plow	\$ 120.00	Per hour
Tool Cat	with Broom	\$ 120.00	Per hour
Tool Cat	with Snow Blower	\$ 120.00	Per hour
Tool Cat	with V-Box Spreader	\$ 120.00	Per hour
Kubota RTV 1100		\$ 35.00	Per hour
Kubota RTV 1100	with Blade	\$ 60.00	Per hour
Mower - Walk Behind		\$ 20.00	Per hour
Mower - Rider		\$ 50.00	Per hour
Ride-on Paint Sprayer	*add'l cost for paint based on product used	\$ 100.00	Per hour
Stand-on Sprayer/Spreader	*add'l cost for checmical based on product used	\$ 100.00	Per hour
Backpack Chemical Sprayer	*add'l cost for checmical based on product used	\$ 50.00	Per hour
Chain saw		\$ 25.00	Per hour
Weed trimmer		\$ 25.00	Per hour
Cut off saw		\$ 50.00	Per hour
Plate compactor		\$ 25.00	Per hour

NEW  
NEW  
NEW

+ 5  
+ 5  
+ 5

+ 10  
+ 10  
+ 10

+ 20  
+ 20  
+ 20  
+ 20

+ 10

NEW  
NEW  
NEW

Payloader	with Bucket	\$ 200.00	Per hour	
Payloader	with Plow	\$ 300.00	Per hour	+ 25
Pickup		\$ 50.00	Per hour	
Pickup	with Plow	\$ 100.00	Per hour	+ 25
Pickup	with Traffic Control Trailer	\$ 125.00	Per hour	NEW
Single Axle Truck		\$ 150.00	Per hour	
Single Axle Truck	with Plow and Wing	\$ 300.00	Per hour	+ 100
Single Axle Truck	with Brine Tank *add'l cost for brine fees under treatments	\$ 350.00	Per hour	NEW
Tandem Axle Truck		\$ 175.00	Per hour	
Tandem Axle Truck	with Plow and Wing	\$ 325.00	Per hour	+ 125
Skid Loader	with Bucket	\$ 200.00	Per hour	+ 50
Skid Loader	with Asphalt Planer	\$ 240.00	Per hour	+ 25
Skid Loader	with Box Broom	\$ 240.00	Per hour	+ 25
Skid Loader	with Grappel	\$ 200.00	Per hour	+ 5
Skid Loader	with Auger & Bit	\$ 200.00	Per hour	+ 5
Skid Loader	with Plow	\$ 180.00	Per hour	+ 5
Skid Loader	with Broom	\$ 180.00	Per hour	+ 5
Skid Loader	with Blower	\$ 180.00	Per hour	+ 5
Skid Loader	with Stump Grinder	\$ 220.00	Per hour	NEW
Snow Blower Walk Behind		\$ 35.00	Per hour	
Sweeper		\$ 250.00	Per hour	
Water Pumps	Both the 1 1/2" and 2" pumps	\$ 35.00	Per hour	
A one hour minimum charge applies to all Public Works fees. City equipment is not rented without a city employee operator. Usage fees do not include labor.				

### 2025 Public Works Maintenance Supplies

Winter Maintenance Treatments			
	salt brine	\$ 0.25	per gallon
	salt brine amp 80/20 blend	\$ 1.00	per gallon
	salt brine amp 90/10 blend	\$ 0.80	per gallon
	untreated rock salt	\$ 100.00	per ton

Traffic Cones and Barricades	Damage Deposit	\$ 250.00	

**2025 Public Works - Tree Removal Fee - City/Property Owner Cost Share**

	Total Cost	50 /50 Split Cost
Cost for each inch diameter of the tree after 8 inches	\$50.00	\$25.00
Minimum Cost	\$400.00	\$200.00
Maximum Cost	\$2,000.00	\$1,000.00

**2026 Fire Department Fees**

Type	Terms and Conditions		
Aerial Ladder or Platform	Hourly Rate with Staff of 4	\$ 525.00	
Engine 1250 GPM	Hourly Rate with Staff of 3	\$ 450.00	+ 40
Tanker with a pump	Hourly Rate with Staff of 2	\$ 260.00	
Grass Rig	Hourly Rate with Staff of 2	\$ 200.00	+ 20
Heavy Rescue	Hourly Rate with Staff of 4	\$ 430.00	
Light Rescue	Hourly Rate with Staff of 4	\$ 275.00	
Utility	Hourly Rate with Staff of 4	\$ 220.00	- 20
Boat	Hourly Rate with Staff of 2 + Tow Vehicle	\$ 195.00	
Haz Mat Trailer	Hourly Rate with Staff of 4 + R11	\$ 250.00	
UTV	Hourly Rate with Staff of 2 + Tow Vehicle	\$ 175.00	+ 25

**Call Specific Fees**

Type	Terms and Conditions		
False Alarm(Fire Alarms)	excess of 3 calls/calendar year		
	per additional call of service	\$ 300.00	
Lift Assists	Group Homes/Assisted Living Faciliites	\$ 375.00	NEW
Lift Assists	excess of 3 calls/calendar year		
	per additional call of service	\$ 300.00	

A one hour minimum charge applies to all Fire Department fees. City equipment is not rented without a city employee operator.

**2026 Right-of-Way Fees**

Type

Annual Registration Fee	\$ 25.00			
Extra Work Added Permit	\$ 50.00			
Installing utilities in an existing conduit	\$ 125.00			
Obstruction Permit	0-7 days	8-30 days	31 or more days	
	\$ 25.00	\$ 75.00	\$ 125.00	
Residential Drop	\$ 125.00			
Utility Permit	\$ 400.00	Plus \$0.25 per foot over 300' to be capped at 5,280'		
Work without a permit fine		Double standard permit fee		

**2026 Staff Fees**

City Staff Rate	\$ 75.00	Per hour		
<b>There is a minimum charge of 2 hours for staff called out after normal business hours.</b>				
Bolton and Menk		Cost incurred		
Campbell Knutson		Cost incurred		
MK Land		Cost incurred		
Other Consultants		Cost incurred		
Police		Per contract cost		
Additional Consultant Fees. There may be situations where additional consultants are needed depending upon the circumstance. These costs will be charged to the applicant at no mark up and based on the actual costs incurred by the City.				



**VOUCHER LIST / CLAIMS ROSTER**

**To be Approved January 13, 2026**

<b>Pre-Paid Claims *</b>	<b>\$</b>	<b>270,847.79</b>
<b>Pending Claim Payment</b>	<b>\$</b>	<b>196,981.48</b>
<b>Payroll Checks **</b>	<b>\$</b>	<b>89,906.24</b>
<b>Grand Total</b>	<b>\$</b>	<b>557,735.51</b>

- D. Everson, Council Member \_\_\_\_\_
- J. Kasheimer, Council Member \_\_\_\_\_
- F. McGuire, Council Member \_\_\_\_\_
- K. Thul, Council Member \_\_\_\_\_
- M. Walters, Mayor \_\_\_\_\_

\* 12/09/25 FD LSU  
 12/19/25 Payroll Taxes  
 12/23/25 AP General Claims  
 12/23/25 Utility Postage  
 12/31/25 Bond Payment  
 12/31/25 Payroll Taxes  
 01/02/26 Payroll Taxes  
 01/08/26 Newsletter Postage  
 01/09/26 Payroll Taxes

\*\* 12/29/25 Bi-Weekly Payroll  
 12/31/25 Quarterly Payroll  
 12/31/25 Monthly Payroll  
 01/02/26 Bi-Weekly Payroll  
 01/09/26 Term. PTO  
 01/09/26 FD Payroll

CITY OF WATERTOWN

Payments

Current Period: January 2026

<b>Payments Batch 01-13-26AP_GEN</b>					<b>\$196,981.48</b>
Refer	240	CARVER COUNTY ATTORNEYS OF			-
Cash Payment	E 101-41000-310	Other Professional Servi	October-December Fines		\$1,914.90
Invoice	2025031		1/2/2026		
Cash Payment	G 101-20800	Due to Other Governments	October-December Fines		\$907.15
Invoice	2025031		1/2/2026		
Transaction Date	1/8/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$2,822.05</b>
Refer	241	BOLTON & MENK, INC.			-
Cash Payment	E 101-41000-303	Engineering Fees	General Engineering		\$1,355.00
Invoice	382674		12/18/2025		
Cash Payment	E 401-41000-303	Engineering Fees	2025 Mill Overlay		\$2,427.00
Invoice	382675		12/18/2025	Project CI030D	
Cash Payment	E 401-41000-303	Engineering Fees	2027 Mill Overlay		\$2,110.00
Invoice	382677		12/18/2025	Project CI030D	
Cash Payment	E 402-43150-303	Engineering Fees	Angel Ave Storm Sewer Improvement		\$7,988.50
Invoice	382678		12/18/2025	Project UC058	
Cash Payment	E 402-43150-303	Engineering Fees	2025 Storm Pond Maintenance		\$1,419.00
Invoice	382676		12/18/2025	Project UC063	
Cash Payment	E 601-49440-303	Engineering Fees	MDH - Lead Service Replacement		\$1,871.00
Invoice	382681		12/18/2025		
Cash Payment	E 430-49400-303	Engineering Fees	Watertower #2 Project		\$6,160.50
Invoice	382684		12/18/2025	Project UC023	
Cash Payment	G 801-22067	THE COVE - Nesvold Escro	The Cove at River Ridge/Nesvold Farms		\$2,107.00
Invoice	382687		12/18/2025		
Cash Payment	E 402-49480-303	Engineering Fees	WWTF Exp		\$3,646.50
Invoice	382684		12/18/2025	Project UC022	
Cash Payment	E 101-41000-303	Engineering Fees	Highway 27 Improvements		\$801.50
Invoice	382680		12/18/2025		
Cash Payment	E 402-49430-303	Engineering Fees	Sanitary Sewer I & I Repairs		\$182.00
Invoice	382682		12/18/2025	Project UC045	
Cash Payment	E 402-43150-303	Engineering Fees	State Street Storm Improvement		\$2,678.00
Invoice	382683		12/18/2025	Project UC075	
Transaction Date	1/8/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$32,746.00</b>
Refer	243	CARVER LINK / CARVER COUNTY			-
Cash Payment	E 101-41000-321	Telephone	Fiber internet		\$195.00
Invoice	4070		1/4/2026		
Cash Payment	E 601-49440-321	Telephone	Fiber internet		\$195.00
Invoice	4070		1/4/2026		
Cash Payment	E 602-49490-321	Telephone	Fiber internet		\$195.00
Invoice	4070		1/4/2026		
Cash Payment	E 603-42260-321	Telephone	Fiber internet		\$195.00
Invoice	4070		1/4/2026		
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$780.00</b>
Refer	244	CARVER LINK / CARVER COUNTY			-
Cash Payment	E 101-41310-433	Dues and Subscriptions	Annual fiber maintenance		\$250.00
Invoice	4055		1/4/2026		
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$250.00</b>

CITY OF WATERTOWN

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Payments

Current Period: January 2026

Refer	245	CIVICPLUS	-			
Cash Payment	E 101-41000-309	EDP, Software and Desi	Annual fee			\$7,551.22
Invoice	355963	1/1/2026				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>		\$7,551.22
Refer	246	CARVER COUNTY	-			
Cash Payment	E 101-41000-310	Other Professional Servi	Liquor license checks			\$700.00
Invoice	SHERI003973	12/22/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>		\$700.00
Refer	247	DWK Clean Water Services LLC	-			
Cash Payment	E 602-49490-103	Part-Time Employees	Professional services			\$3,315.00
Invoice	1225	12/31/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>		\$3,315.00
Refer	248	FIRSTNET	-			
Cash Payment	E 601-49430-300	Professional Srvs (GEN	Phone access			\$34.86
Invoice	01032026	12/25/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>		\$34.86
Refer	249	FRONTIER	-			
Cash Payment	E 602-49470-321	Telephone	Dec 30-Jan 29 phones			\$20.70
Invoice		12/30/2025				
Cash Payment	E 101-41940-321	Telephone	Dec 30-Jan 29 phones			\$377.98
Invoice		12/30/2025				
Cash Payment	E 602-49470-321	Telephone	Dec 30-Jan 29 phones			\$95.64
Invoice		12/30/2025				
Cash Payment	E 602-49470-321	Telephone	Dec 30-Jan 29 phones			\$72.50
Invoice		12/30/2025				
Cash Payment	E 101-43000-321	Telephone	Dec 30-Jan 29 phones			\$164.69
Invoice		12/30/2025				
Cash Payment	E 602-49470-321	Telephone	Dec 30-Jan 29 phones			\$690.15
Invoice		12/30/2025				
Cash Payment	E 602-49470-321	Telephone	Dec 30-Jan 29 phones			\$91.33
Invoice		12/30/2025				
Cash Payment	E 602-49470-321	Telephone	Dec 30-Jan 29 phones			\$80.14
Invoice		12/30/2025				
Cash Payment	E 602-49470-321	Telephone	Dec 30-Jan 29 phones			\$28.82
Invoice		12/30/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>		\$1,621.95
Refer	250	CMG ADVISING	-			
Cash Payment	E 601-49440-101	Full-Time Employees Re	Utility Billing Support/Training			\$180.00
Invoice	25-06	12/30/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>		\$180.00
Refer	251	GOPHER STATE ONE-CALL	-			
Cash Payment	E 601-49440-310	Other Professional Servi	December Locates			\$24.30
Invoice	5120836	12/31/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>		\$24.30
Refer	252	GOOGLE INC	-			
Cash Payment	E 101-41000-309	EDP, Software and Desi	December Workspace			\$58.80
Invoice	5450199794	12/31/2025				

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Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$58.80</b>
Refer	253 <i>HERALD JOURNAL</i>	-			
Cash Payment	E 101-41000-351	Legal Notices Publishing	Publications		\$121.14
Invoice	12/31/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$121.14</b>
Refer	254 <i>LOOMIS HOMES</i>	-			
Cash Payment	G 801-22040	Building Escrow - erosion	Grading Escrow Return		\$2,000.00
Invoice	1/8/2026				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$2,000.00</b>
Refer	255 <i>LEAGUE OF MINNESOTA CITIES</i>	-			
Cash Payment	E 101-41110-208	Training and Instruction	Training-Thul		\$350.00
Invoice 440207	11/20/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$350.00</b>
Refer	256 <i>LEAGUE OF MINNESOTA CITIES</i>	-			
Cash Payment	E 101-41110-208	Training and Instruction	Training-Everson		\$350.00
Invoice 440273	11/24/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$350.00</b>
Refer	257 <i>LEAGUE OF MINNESOTA CITIES</i>	-			
Cash Payment	E 101-41110-433	Dues and Subscriptions	Membership dues		\$6,693.00
Invoice 441283	1/1/2026				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$6,693.00</b>
Refer	258 <i>LOFFLER</i>	-			
Cash Payment	E 101-41000-309	EDP, Software and Desi	IT services		\$697.50
Invoice CW260858	1/5/2026				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$697.50</b>
Refer	259 <i>LOFFLER</i>	-			
Cash Payment	E 101-41000-309	EDP, Software and Desi	January IT Contract		\$1,545.70
Invoice 5229723	1/2/2026				
Cash Payment	E 101-41000-309	EDP, Software and Desi	January IT Contract		\$1,402.64
Invoice 5229723	1/2/2026				
Cash Payment	E 601-49440-309	EDP, Software and Desi	January IT Contract		\$701.32
Invoice 5229723	1/2/2026				
Cash Payment	E 602-49490-309	EDP, Software and Desi	January IT Contract		\$701.32
Invoice 5229723	1/2/2026				
Cash Payment	E 603-42260-309	EDP, Software and Desi	January IT Contract		\$701.32
Invoice 5229723	1/2/2026				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$5,052.30</b>
Refer	260 <i>LOFFLER</i>	-			
Cash Payment	E 101-41000-309	EDP, Software and Desi	IT network services		\$11,492.28
Invoice 5216899	12/18/2025				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$11,492.28</b>
Refer	261 <i>MINNESOTA MAYOR S ASSOCIATI</i>	-			
Cash Payment	E 101-41110-433	Dues and Subscriptions	Annual dues		\$30.00
Invoice	1/1/2026				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$30.00</b>

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Refer	262	MNSPECT/SAFE BUILT	-				
Cash Payment	E 101-41000-312	Building Inspector Serv	Code Enforcement				\$187.94
Invoice	3048652	12/31/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>	\$187.94
Refer	263	MNSPECT/SAFE BUILT	-				
Cash Payment	E 101-41000-312	Building Inspector Serv	December Permitting				\$3,524.13
Invoice	3052262	12/31/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>	\$3,524.13
Refer	264	OPG-3, INC.	-				
Cash Payment	E 602-49490-309	EDP, Software and Desi	Annual Subscription				\$708.53
Invoice	9422	1/2/2026					
Cash Payment	E 601-49440-309	EDP, Software and Desi	Annual Subscription				\$708.53
Invoice	9422	1/2/2026					
Cash Payment	E 101-41000-309	EDP, Software and Desi	Annual Subscription				\$708.54
Invoice	9422	1/2/2026					
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>	\$2,125.60
Refer	265	ROY'S ELECTRIC	-				
Cash Payment	E 101-41940-401	Repairs to Buildings	City hall room repairs				\$155.00
Invoice	7345	12/17/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>	\$155.00
Refer	266	STEINER AUTO PARTS	-				
Cash Payment	E 101-43100-210	Operating Supplies (GE	Supplies				\$29.99
Invoice	609513	1/8/2026					
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>	\$29.99
Refer	267	TERRAMARK	-				
Cash Payment	E 101-41000-314	Professional Planning S	Q4 Planning Services				\$3,341.00
Invoice	0029-2025	12/8/2025					
Cash Payment	G 801-22067	THE COVE - Nesvold Escro	Q4 The Cove				\$476.00
Invoice	0029-2025	12/8/2025					
Cash Payment							\$0.00
Invoice							
Cash Payment	G 801-22075	709 Jefferson (Frostleaf)	Q4 709-701 Jefferson (Frostleaf)				\$1,260.00
Invoice	0029-2025	12/8/2025					
Cash Payment	G 801-22039	Rice Lake Devlp III	Q4 Rice Lake III				\$1,036.00
Invoice	0029-2025	12/8/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>	\$6,113.00
Refer	268	TERRAMARK	-				
Cash Payment	E 101-41000-314	Professional Planning S	Q4 Planning Services				\$3,600.00
Invoice	0028-2025	12/8/2025					
Cash Payment	G 801-22067	THE COVE - Nesvold Escro	Q4 The Cove				\$756.00
Invoice	0028-2025	12/8/2025					
Cash Payment	G 801-22046	Bremer Bank Sign Escrow	Q4 Bremer Bank				\$112.00
Invoice	0028-2025	12/8/2025					
Cash Payment	G 801-22075	709 Jefferson (Frostleaf)	Q4 709 Jefferson (Frostleaf)				\$112.00
Invoice	0028-2025	12/8/2025					
Cash Payment	G 801-22077	595 Industrial-CoreyZaback	Q4 595 Industrial-CoreyZaback				\$196.00
Invoice	0028-2025	12/8/2025					

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Cash Payment	G 801-22039	Rice Lake Devlp III	Q4 Rice Lake III		\$84.00
Invoice	0028-2025	12/8/2025			
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b> \$4,860.00
Refer	269	TERRAMARK			
Cash Payment	E 101-41000-314	Professional Planning S	Q3 Planning Services		\$8,278.25
Invoice	0023-2025	12/2/2025			
Cash Payment	G 801-22074	Honeybee Enterprises 309 J	Q3 309 Jefferson (Honeybee)		\$1,512.00
Invoice	0023-2025	12/2/2025			
Cash Payment	G 801-22067	THE COVE - Nesvold Escro	Q3 The Cove		\$4,620.00
Invoice	0023-2025	12/2/2025			
Cash Payment	G 801-22073	2910 Hwy 25 QT Environme	Q3 2910 Highway 25		\$1,596.00
Invoice	0023-2025	12/2/2025			
Cash Payment	E 101-41000-314	Professional Planning S	Q3 Planning Services		\$868.00
Invoice	0023-2025	12/2/2025			
Cash Payment	G 801-22076	709 Jefferson (Darkstar	Q3 709-701 Jefferson (Darkstar)		\$1,428.00
Invoice	0023-2025	12/2/2025			
Cash Payment	G 801-22075	709 Jefferson (Frostleaf)	Q3 709-701 Jefferson (Frostleaf)		\$112.00
Invoice	0023-2025	12/2/2025			
Cash Payment	G 801-22062	Parker Smith Jefferson Ave L	Q3 709-701 Jefferson CUP		\$1,232.00
Invoice	0023-2025	12/2/2025			
Cash Payment	G 801-22059	700 Lewis Ave CUP Escrow	Q3 700 Lewis		\$1,344.00
Invoice	0023-2025	12/2/2025			
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b> \$20,990.25
Refer	270	VESTIS			
Cash Payment	E 101-41940-400	Repairs & Maint Cont (G	Mops and Mats		\$80.42
Invoice	2500879843	1/7/2026			
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b> \$80.42
Refer	271	VESTIS			
Cash Payment	E 101-41940-400	Repairs & Maint Cont (G	Mops and Mats		\$80.42
Invoice	2500868154	12/24/2025			
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b> \$80.42
Refer	272	WATERTOWN FUEL & FOOD, LLC			
Cash Payment	E 101-43127-212	Motor Fuels	Fuel		\$352.11
Invoice		1/6/2026			
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b> \$352.11
Refer	273	WATERTOWN MARATHON			
Cash Payment	E 603-42290-212	Motor Fuels	Fuel		\$138.68
Invoice		1/5/2026			
Cash Payment	E 101-43127-212	Motor Fuels	Fuel		\$233.97
Invoice		1/5/2026			
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b> \$372.65
Refer	274	KODIAK			
Cash Payment	E 402-49470-580	Other Equipment	Electrical services		\$9,851.00
Invoice	21519181	12/23/2025		Project uc042	
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b> \$9,851.00
Refer	275	ENGEL WATER TESTING, INC			

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Cash Payment	E 601-49440-311	Testing Fees	Water testing			\$600.00
Invoice	25-30306	12/19/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$600.00
Refer	276	STEINER AUTO PARTS	-			
Cash Payment	E 606-49451-220	Maintenance Supply (GE	Supplies			\$283.96
Invoice	609499	1/7/2026				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$283.96
Refer	277	HARPER BROOMS	-			
Cash Payment	E 603-42280-580	Other Equipment	Station supplies			\$213.80
Invoice		12/22/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$213.80
Refer	279	MN DEPT OF HEALTH	-			
Cash Payment	E 101-45200-438	Licenses & Permits	2026 Renewal			\$505.00
Invoice	22648	11/12/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$505.00
Refer	280	LOCALITY MEDIA LLC	-			
Cash Payment	E 603-42290-433	Dues and Subscriptions	Fire and EMS reporting software			\$5,670.00
Invoice	7350	1/1/2026				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$5,670.00
Refer	281	ALL TRAFFIC SOLUTIONS, INC	-			
Cash Payment	E 101-43000-310	Other Professional Servi	Annual subscription			\$6,000.00
Invoice	Q-101133	1/2/2026				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$6,000.00
Refer	282	DELANO TRUE VALUE	-			
Cash Payment	E 603-42280-217	Other Operating Supplie	Carpet cleaner and Pellets			\$35.76
Invoice	137847	3/3/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$35.76
Refer	283	DELANO TRUE VALUE	-			
Cash Payment	E 603-42280-217	Other Operating Supplie	Pellets			\$53.94
Invoice	139737	8/5/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$53.94
Refer	284	FES, INC	-			
Cash Payment	E 404-42290-550	Motor Vehicles	SCBA bracket			\$183.13
Invoice	21765	12/31/2025			Project FC006	
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$183.13
Refer	285	MENARDS - BUFFALO	-			
Cash Payment	E 601-49401-223	Building Repair Supplies	Supplies			\$200.00
Invoice	43117	1/7/2026				
Cash Payment	E 602-49480-220	Maintenance Supply (GE	Supplies			\$359.96
Invoice	43117	1/7/2026				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$559.96
Refer	286	DELANO ACE	-			
Cash Payment	E 602-49480-220	Maintenance Supply (GE	Hardware			\$17.04
Invoice	141092	12/23/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$17.04

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Refer	287	MITCHELL MEULENERS	-				
Cash Payment	E 101-43125-437	Other Miscellaneous	Property damage			\$50.00	
Invoice		1/8/2026					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$50.00	
Refer	288	SARAH E. TOWERS	-				
Cash Payment	E 101-43125-437	Other Miscellaneous	Property damage			\$50.00	
Invoice		1/8/2026					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$50.00	
Refer	289	KIRVIDA FIRE, INC	-				
Cash Payment	E 603-42290-404	Repairs to Machinery/Eq	Supplies			\$818.23	
Invoice	13838	12/17/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$818.23	
Refer	290	FASTENAL	-				
Cash Payment	E 101-43127-240	Small Tools and Minor E	Operating supplies			\$333.48	
Invoice	MNWAC82233	12/18/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$333.48	
Refer	291	DELANO ACE	-				
Cash Payment	E 101-43100-220	Maintenance Supply (GE	Hardware			\$15.18	
Invoice	141105	12/26/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$15.18	
Refer	292	WATERTOWN PLUMBING	-				
Cash Payment	E 101-43000-401	Repairs to Buildings	PW Bldg Parts and Labor			\$325.00	
Invoice		1/5/2026					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$325.00	
Refer	293	PRECISE FLEET MANAGEMENT	-				
Cash Payment	E 101-41000-433	Dues and Subscriptions	5MB Data Plan			\$80.00	
Invoice	IN200-2010261	12/30/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$80.00	
Refer	294	MTI DISTRIBUTING, INC	-				
Cash Payment	E 101-43127-221	Equipment Parts	Vehicle repairs			\$702.99	
Invoice	1502825-00	12/22/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$702.99	
Refer	295	LANO EQUIPMENT INC - LORETTO	-				
Cash Payment	E 101-43127-221	Equipment Parts	Bobcat parts			\$5,228.00	
Invoice	14798	12/23/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$5,228.00	
Refer	296	ENVIROTECH	-				
Cash Payment	E 101-43125-216	Chemicals and Chem Pr	Shop supplies			\$5,334.82	
Invoice	CD202605054	12/26/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$5,334.82	
Refer	297	DELANO TRUE VALUE	-				
Cash Payment	E 101-45200-229	Safety Equipment & Trai	Supplies			\$79.58	
Invoice	138200	4/8/2025					
Transaction Date	1/9/2026		Citizens Alliance	10100	<b>Total</b>	\$79.58	
Refer	298	CENTRA SOTA COOP - BUFFALO	-				

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Cash Payment	E 101-43127-212	Motor Fuels	Fuel					\$1,156.04
Invoice	6320454			12/17/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$1,156.04
Refer	299	CENTRA SOTA COOP - BUFFALO		-				
Cash Payment	E 101-43127-212	Motor Fuels	Fuel					\$1,107.88
Invoice	6320529			12/30/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$1,107.88
Refer	300	212 EQUIPMENT		-				
Cash Payment	E 101-45200-229	Safety Equipment & Trai	Supplies					\$525.96
Invoice	WO-2366-1			12/31/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$525.96
Refer	301	AUTOMATIC SYSTEMS CO		-				
Cash Payment	E 602-49490-309	EDP, Software and Desi	Software renewal					\$390.00
Invoice	044445			12/31/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$390.00
Refer	302	CENTRA SOTA COOP - BUFFALO		-				
Cash Payment	E 601-49420-212	Motor Fuels	Fuel					\$733.40
Invoice	6320052			11/3/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$733.40
Refer	303	CENTRA SOTA COOP - BUFFALO		-				
Cash Payment	E 602-49480-212	Motor Fuels	Fuel					\$916.75
Invoice	6320050			11/3/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$916.75
Refer	304	MVTL		-				
Cash Payment	E 602-49480-311	Testing Fees	WW Testing					\$146.40
Invoice	1340141			1/2/2026				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$146.40
Refer	305	MVTL		-				
Cash Payment	E 602-49480-311	Testing Fees	WW Testing					\$146.40
Invoice	1340604			1/7/2026				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$146.40
Refer	306	MVTL		-				
Cash Payment	E 602-49480-311	Testing Fees	WW Testing					\$146.40
Invoice	1339310			12/24/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$146.40
Refer	307	NELSON ELECTRIC MOTOR REPAI		-				
Cash Payment	E 602-49470-404	Repairs to Machinery/Eq	Lift station repair - 3339					\$350.00
Invoice				12/29/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$350.00
Refer	308	USA BLUE BOOK		-				
Cash Payment	E 602-49480-218	Lab Supplies	Lab Supplies					\$210.47
Invoice	INV00921720			12/31/2025				
Transaction Date	1/9/2026		Citizens Alliance	10100		<b>Total</b>		\$210.47
Refer	309	AUTOMATIC SYSTEMS CO		-				



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Payments Batch 12-23-25AP_GEN		\$122,890.95	
Refer	187 212 EQUIPMENT	-	
Cash Payment	E 101-45200-240 Small Tools and Minor E Tools Rental		\$1,134.27
Invoice	6391-1 12/18/2025		
Transaction Date	12/23/2025	Citizens Alliance 10100	<b>Total</b> \$1,134.27
Refer	188 AMERICAN PUBLIC WORKS ASSO	-	
Cash Payment	E 101-43000-433 Dues and Subscriptions Loehrs Dues		\$315.00
Invoice	000913704		
Transaction Date	12/23/2025	Citizens Alliance 10100	<b>Total</b> \$315.00
Refer	189 ARROW BUILDING CENTER	-	
Cash Payment	E 101-45200-220 Maintenance Supply (GE Lumber		\$77.26
Invoice	3494009-019 12/2/2025		
Cash Payment	E 101-43100-220 Maintenance Supply (GE Lumber		\$122.78
Invoice	3454948-019 11/5/2025		
Transaction Date	12/23/2025	Citizens Alliance 10100	<b>Total</b> \$200.04
Refer	190 BOLL CUSTOM CONCRETE	-	
Cash Payment	E 101-43000-401 Repairs to Buildings Shed Concrete Slab		\$2,500.00
Invoice	1071 12/22/2025		
Cash Payment	E 101-43000-229 Safety Equipment & Trai Shed Concrete Slab		\$1,150.00
Invoice	1071 12/22/2025		
Transaction Date	12/23/2025	Citizens Alliance 10100	<b>Total</b> \$3,650.00
Refer	191 CARVER COUNTY	-	
Cash Payment	E 101-41000-310 Other Professional Servi 2025 Assessment Contract		\$40,110.90
Invoice	48536 12/8/2025		
Transaction Date	12/23/2025	Citizens Alliance 10100	<b>Total</b> \$40,110.90
Refer	192 CDW GOVERNMENT	-	
Cash Payment	E 101-41000-309 EDP, Software and Desi Adobe Acrobat Licenses		\$597.60
Invoice	PRWC806 12/10/2025		
Transaction Date	12/23/2025	Citizens Alliance 10100	<b>Total</b> \$597.60
Refer	193 CENTRA SOTA COOP - BUFFALO	-	
Cash Payment	E 101-43127-212 Motor Fuels Fieldmaster Fuel		\$1,413.06
Invoice	6320368 12/8/2025		
Cash Payment	E 101-43127-220 Maintenance Supply (GE DEF		\$140.00
Invoice	6123739 12/8/2025		
Cash Payment	E 101-43127-212 Motor Fuels Wintermaster Fuel		\$1,255.32
Invoice	6320289 11/26/2025		
Cash Payment	E 101-43127-212 Motor Fuels Wintermaster Fuel		\$1,156.04
Invoice	6319889 12/17/2025		
Transaction Date	12/23/2025	Citizens Alliance 10100	<b>Total</b> \$3,964.42
Refer	194 CHIROPRACTIC SPECIALISTS	-	
Cash Payment	E 101-41000-310 Other Professional Servi DOT Screening		\$45.00
Invoice	12/1/2025		
Transaction Date	12/23/2025	Citizens Alliance 10100	<b>Total</b> \$45.00
Refer	195 DELANO ACE	-	

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Cash Payment	E 603-42290-240	Small Tools and Minor E	Tools and Hardware						\$58.96
Invoice	140988				12/11/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100			<b>Total</b>		\$58.96
Refer	196	DVS							
Cash Payment	E 603-42290-438	Licenses & Permits	FIRE Plates						\$18.00
Invoice					12/8/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100			<b>Total</b>		\$18.00
Refer	197	DVS RENEWAL							
Cash Payment	E 101-43127-438	Licenses & Permits	Fleet Tabs Renewals						\$283.50
Invoice					11/17/2025				
Cash Payment	E 601-49440-438	Licenses & Permits	Fleet Tabs Renewals						\$60.75
Invoice					11/17/2025				
Cash Payment	E 602-49490-438	Licenses & Permits	Fleet Tabs Renewals						\$20.25
Invoice					11/17/2025				
Cash Payment	E 603-42290-438	Licenses & Permits	Fleet Tabs Renewals						\$40.50
Invoice					11/17/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100			<b>Total</b>		\$405.00
Refer	198	ECM PUBLISHERS, INC							
Cash Payment	E 101-41000-492	Contingency	Watertown Holiday Notice						\$150.00
Invoice	1076993				12/7/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100			<b>Total</b>		\$150.00
Refer	199	FIRSTNET							
Cash Payment	E 601-49430-300	Professional Srvs (GEN	November Mobile Phone						\$34.29
Invoice	12032025				11/25/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100			<b>Total</b>		\$34.29
Refer	200	FRONTIER							
Cash Payment	E 602-49470-321	Telephone	Lift Station						\$20.70
Invoice					11/30/2025				
Cash Payment	E 101-41940-321	Telephone	Alarm System						\$377.98
Invoice					11/30/2025				
Cash Payment	E 602-49470-321	Telephone	Lift Station - Rosewood						\$95.64
Invoice					11/30/2025				
Cash Payment	E 602-49470-321	Telephone	Lift Station						\$72.50
Invoice					11/30/2025				
Cash Payment	E 101-43000-321	Telephone	PW Fire Flow Alarm						\$164.69
Invoice					11/30/2025				
Cash Payment	E 602-49470-321	Telephone	Main Lift Station						\$690.15
Invoice					11/30/2025				
Cash Payment	E 602-49470-321	Telephone	Lift Station						\$91.33
Invoice					11/30/2025				
Cash Payment	E 602-49470-321	Telephone	Lift Station						\$69.64
Invoice					11/30/2025				
Cash Payment	E 602-49470-321	Telephone	Life Station						\$28.82
Invoice					11/30/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100			<b>Total</b>		\$1,611.45
Refer	201	GREATER MN COMMUNICATIONS							

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Payments

Current Period: December 2025

Cash Payment	E 101-41000-340	Advertising	December Newsletter		\$644.16
Invoice	34527	12/5/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$644.16
Refer	202	HAWKINS, INC	-		
Cash Payment	E 601-49420-216	Chemicals and Chem Pr	Water Chemical		\$649.86
Invoice	7271077	12/2/2025			
Cash Payment	E 602-49480-216	Chemicals and Chem Pr	WW Chem AquaHawk		\$23,325.00
Invoice	7271078	12/2/2025			
Cash Payment	E 602-49480-216	Chemicals and Chem Pr	WW Chemical		\$50.00
Invoice	7282428	12/15/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$24,024.86
Refer	203	HOLLYWOOD HEATING & AIR INC	-		
Cash Payment	E 603-42280-401	Repairs to Buildings	Fire Station Heater Repair		\$478.00
Invoice	13053	12/5/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$478.00
Refer	204	JLR GARAGE DOOR SERVICE, INC	-		
Cash Payment	E 603-42280-401	Repairs to Buildings	Fire Station Door Opener Repair		\$2,400.00
Invoice	8364	12/11/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$2,400.00
Refer	205	KAMMERER, CONNIE	-		
Cash Payment	E 101-45200-225	Landscaping Materials	Reimb. - Winter Pots		\$81.78
Invoice		12/10/2025			
Cash Payment	G 801-22013	Commission on Aging Escro	Reimb. - COA Senior Dinner		\$55.62
Invoice		12/10/2025			
Cash Payment	E 101-41000-201	Accessories (paper, pen	Reimb. - Office Supplies		\$22.21
Invoice		12/10/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$159.61
Refer	206	LANO EQUIPMENT OF NORWOOD,	-		
Cash Payment	E 101-43127-221	Equipment Parts	Skid Steer Parts		\$124.34
Invoice	14423	12/8/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$124.34
Refer	207	LOOMIS HOMES	-		
Cash Payment	G 801-22040	Building Escrow - erosion	Grading Escrow Return		\$6,000.00
Invoice		12/23/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$6,000.00
Refer	208	LOCKRIDGE GRINDAL NAUEN	-		
Cash Payment	E 601-49440-310	Other Professional Servi	December Government Relations		\$2,500.00
Invoice	121969	12/1/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$2,500.00
Refer	209	LVC COMPANIES, INC	-		
Cash Payment	E 603-42290-404	Repairs to Machinery/Eq	Fire Exting. Maint.		\$488.10
Invoice	185596	12/15/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$488.10
Refer	210	MACQUEEN EQUIPMENT INC.	-		
Cash Payment	E 404-42290-580	Other Equipment	CIP Turnout Gear		\$1,240.29
Invoice	P54790	9/16/2025			

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Payments

Current Period: December 2025

Cash Payment	E 404-42290-580	Other Equipment	CIP Turnout Gear		\$450.00
Invoice	P52764	8/4/2025		Project FC049	
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$1,690.29
Refer	211	MARKET PLACE FOODS			
Cash Payment	G 801-22013	Commission on Aging Escro	COA Senior Dinner Meal		\$2,550.00
Invoice	2025-20	12/15/2025			
Cash Payment	E 602-49480-209	Other Office Supplies	Softer Salt		\$34.98
Invoice		12/16/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$2,584.98
Refer	212	MENARDS - BUFFALO			
Cash Payment	E 602-49480-240	Small Tools and Minor E	Hardware and Fittings		\$426.35
Invoice	41555	12/8/2025			
Cash Payment	E 602-49480-240	Small Tools and Minor E	Hardware and Fittings		-\$43.29
Invoice	41555	12/8/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$383.06
Refer	213	METRO CHIEF FIRE OFFICERS AS			
Cash Payment	E 603-42260-433	Dues and Subscriptions	2026 Dues		\$100.00
Invoice		12/15/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$100.00
Refer	214	METRO SALES INCORPORATED			
Cash Payment	E 101-43000-413	Office Equipment Rental	Printer Copier		\$85.09
Invoice	INV2968571	12/19/2025			
Cash Payment	E 603-42280-580	Other Equipment	FD Printer		\$38.77
Invoice	INV2962766	12/11/2025			
Cash Payment	E 101-43000-413	Office Equipment Rental	PW Printer		\$73.62
Invoice	INV2962767	12/11/2025			
Cash Payment	E 101-41000-413	Office Equipment Rental	CH Printer		\$357.07
Invoice	INV2962767	12/11/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$554.55
Refer	215	METRONET			
Cash Payment	E 101-41000-321	Telephone	Internet Hosting		\$273.74
Invoice		12/14/2025			
Cash Payment	E 101-43000-321	Telephone	Internet Hosting		\$45.62
Invoice		12/14/2025			
Cash Payment	E 602-49490-321	Telephone	Internet Hosting		\$45.62
Invoice		12/14/2025			
Cash Payment	E 603-42260-321	Telephone	Internet Hosting		\$136.87
Invoice		12/14/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$501.85
Refer	216	MID COUNTY CO-OP			
Cash Payment	E 101-43127-404	Repairs to Machinery/Eq	DOT Inspections		\$742.48
Invoice	24263	11/5/2025			
Cash Payment	E 101-43127-404	Repairs to Machinery/Eq	DOT Inspections		\$1,130.80
Invoice	24246	11/4/2025			
Cash Payment	E 101-43127-404	Repairs to Machinery/Eq	DOT Inspections		\$416.07
Invoice	24257	11/4/2025			
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b> \$2,289.35

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Payments

Current Period: December 2025

Refer	217	MIDWEST MACHINERY CO.	-			
Cash Payment	E 101-43127-221	Equipment Parts	John Deere Parts			\$15.08
Invoice	10734898	12/8/2025				
Cash Payment	E 101-43127-221	Equipment Parts	John Deere Parts			\$629.76
Invoice	10743601	12/18/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$644.84
Refer	218	MOTOROLA	-			
Cash Payment	E 404-42290-580	Other Equipment	CIP Radio Upgrades			\$6,219.36
Invoice	8282247849	12/5/2025			Project FC006	
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$6,219.36
Refer	219	MVTL	-			
Cash Payment	E 602-49480-311	Testing Fees	WW Testing			\$357.16
Invoice	1337047	12/9/2025				
Cash Payment	E 602-49480-311	Testing Fees	WW Testing			\$146.40
Invoice	1338185	12/17/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$503.56
Refer	220	NORTHLAND SECURITIES, INC.	-			
Cash Payment	E 101-41000-310	Other Professional Servi	Utility Study Updates			\$2,000.00
Invoice	INV-1733	12/2/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$2,000.00
Refer	221	R & V SERVICE INC.	-			
Cash Payment	E 603-42290-404	Repairs to Machinery/Eq	2014 Command Veh Repair			\$125.44
Invoice	251780	12/3/2025				
Cash Payment	E 603-42290-404	Repairs to Machinery/Eq	Rescue 12 Repair			\$89.30
Invoice	251775	12/3/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$214.74
Refer	222	RITEWAY	-			
Cash Payment	E 101-41000-203	Printed Forms	Tax Forms			\$404.52
Invoice	25-85273	12/18/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$404.52
Refer	223	ROY'S ELECTRIC	-			
Cash Payment	E 101-45200-530	Improvements Other Tha	City Center Park Repair			\$270.00
Invoice	7342	12/17/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$270.00
Refer	224	STEINER AUTO PARTS	-			
Cash Payment	E 101-43100-220	Maintenance Supply (GE	Harware			\$7.49
Invoice	608384	12/2/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$7.49
Refer	225	TS TREE FARM	-			
Cash Payment	E 101-45200-530	Improvements Other Tha	Tree Decorating			\$3,332.50
Invoice		12/14/2025				
Transaction Date	12/23/2025		Citizens Alliance	10100	<b>Total</b>	\$3,332.50
Refer	226	TEGRETE	-			
Cash Payment	E 101-41940-310	Other Professional Servi	Cleaning Svcs			\$1,310.91
Invoice	119680	12/15/2025				

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Payments

Current Period: December 2025

Cash Payment	E 603-42280-300	Professional Svcs (GEN	Cleaning Svcs		\$426.04
Invoice	119680	12/15/2025			
Cash Payment	E 101-43000-310	Other Professional Servi	Cleaning Svcs		\$165.47
Invoice	119680	12/15/2025			
Transaction Date	12/23/2025	Citizens Alliance	10100	<b>Total</b>	<b>\$1,902.42</b>
Refer	227	TRANSWEST TRUCK TRAILER RV	-		
Cash Payment	E 101-41000-630	Bank Service Fees	Engine 11 Repairs		\$60.44
Invoice	001FC29807	12/10/2025			
Transaction Date	12/23/2025	Citizens Alliance	10100	<b>Total</b>	<b>\$60.44</b>
Refer	228	VESTIS	-		
Cash Payment	E 101-41940-400	Repairs & Maint Cont (G	Mops and Mats		\$80.42
Invoice	2500856538	12/10/2025			
Cash Payment	E 101-41940-400	Repairs & Maint Cont (G	Mops and Mats		\$70.62
Invoice	2500750174	8/6/2025			
Transaction Date	12/23/2025	Citizens Alliance	10100	<b>Total</b>	<b>\$151.04</b>
Refer	229	WATERTEK	-		
Cash Payment	E 101-43000-220	Maintenance Supply (GE	Del Water		\$35.00
Invoice	34582	11/18/2025			
Transaction Date	12/23/2025	Citizens Alliance	10100	<b>Total</b>	<b>\$35.00</b>
Refer	230	WATERTOWN FUEL & FOOD, LLC	-		
Cash Payment	E 101-43127-212	Motor Fuels	Fuel		\$289.02
Invoice		12/4/2025			
Transaction Date	12/23/2025	Citizens Alliance	10100	<b>Total</b>	<b>\$289.02</b>
Refer	231	WATERTOWN MARATHON	-		
Cash Payment	E 101-43127-212	Motor Fuels	November Fuel		\$329.14
Invoice					
Cash Payment	E 603-42290-212	Motor Fuels	November Fuel		\$330.69
Invoice					
Transaction Date	12/23/2025	Citizens Alliance	10100	<b>Total</b>	<b>\$659.83</b>
Refer	232	WILSON NURSERY, INC	-		
Cash Payment	E 101-45204-225	Landscaping Materials	Trees		\$7,744.45
Invoice	33395	10/20/2025			
Transaction Date	12/23/2025	Citizens Alliance	10100	<b>Total</b>	<b>\$7,744.45</b>
Refer	233	ZIEGLER INC.	-		
Cash Payment	E 101-43127-404	Repairs to Machinery/Eq	Transfer Switch Repair		\$1,233.66
Invoice	SI000736110	12/11/2025			
Transaction Date	12/23/2025	Citizens Alliance	10100	<b>Total</b>	<b>\$1,233.66</b>

Payments

Current Period: December 2025

Fund Summary

	10100 Citizens Alliance	
101 GENERAL FUND		\$72,968.86
404 Fire Dept Capital Fund		\$7,909.65
601 WATER FUND		\$3,244.90
602 SEWER FUND		\$25,431.25
603 WATERTOWN FIRE DEPARTMENT FUND		\$4,730.67
801 ESCROW TRUST FUNDS		\$8,605.62
		<hr/>
		\$122,890.95

Pre-Written Checks		\$0.00
Checks to be Generated by the Computer		\$122,890.95
		<hr/>
Total		\$122,890.95

Payments

Current Period: December 2025

<b>Payments Batch 12-09-25FD_LSU</b>		<b>\$373.00</b>
Refer	179 <i>HERC-U-LIFT</i>	-
<b>Cash Payment</b>	E 603-42290-404 Repairs to Machinery/Eq LSU Racking	<b>\$373.00</b>
Invoice	PS147684 12/8/2025	
Transaction Date	12/9/2025 Citizens Alliance 10100	<b>Total \$373.00</b>

Fund Summary

	10100 Citizens Alliance
603 WATERTOWN FIRE DEPARTMENT FUND	\$373.00
	<u>\$373.00</u>

Pre-Written Checks	\$0.00
Checks to be Generated by the Computer	\$373.00
Total	<u>\$373.00</u>

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Payments

Current Period: December 2025

<b>Payments Batch 12-19-25payrolltax</b>				<b>\$22,952.50</b>
Refer	182 <u>UNITED STATES TREASURY</u>	Ck# 002939E	12/16/2025	
Cash Payment	G 101-21701 Federal Withholding		12-19-25 BiWeekly Payroll	\$4,532.78
	Invoice			
Cash Payment	G 101-21703 FICA Tax Withholding		12-19-25 BiWeekly Payroll	\$4,642.76
	Invoice			
Cash Payment	G 101-21709 Medicare		12-19-25 BiWeekly Payroll	\$1,190.22
	Invoice			
Transaction Date	12/16/2025	Citizens Alliance	10100	<b>Total</b> \$10,365.76
Refer	183 <u>MN DEPT OF REVENUE</u>	Ck# 002940E	12/16/2025	
Cash Payment	G 101-21702 State Withholding		12-19-25 BiWeekly Payroll	\$5,219.22
	Invoice			
Transaction Date	12/16/2025	Citizens Alliance	10100	<b>Total</b> \$5,219.22
Refer	184 <u>PERA</u>	Ck# 002941E	12/16/2025	
Cash Payment	G 101-21704 PERA		12-19-25 BiWeekly Payroll	\$6,717.91
	Invoice			
Transaction Date	12/16/2025	Citizens Alliance	10100	<b>Total</b> \$6,717.91
Refer	185 <u>BREMER BANK, N.A.</u>	Ck# 002942E	12/16/2025	
Cash Payment	G 101-21714 HSA Contribution		12-19-25 BiWeekly Payroll	\$649.61
	Invoice			
Transaction Date	12/16/2025	Citizens Alliance	10100	<b>Total</b> \$649.61

Fund Summary

	10100 Citizens Alliance	
101 GENERAL FUND		\$22,952.50
		<u>\$22,952.50</u>

Pre-Written Checks	\$22,952.50
Checks to be Generated by the Computer	\$0.00
Total	<u>\$22,952.50</u>

Payments

Current Period: December 2025

<b>Payments Batch 122325UB BILLS POSTA</b>		<b>\$739.86</b>
Refer	186 POSTMASTER	-
Cash Payment	E 601-49440-322 Postage	DECEMBER UTILITY BILLS POSTAGE
Invoice	680206108 12/23/2025	\$369.93
Cash Payment	E 602-49490-322 Postage	DECEMBER UTILITY BILLS POSTAGE
Invoice	680206108 12/23/2025	\$369.93
Transaction Date	12/23/2025	Citizens Alliance 10100
		<b>Total</b>
		<b>\$739.86</b>

Fund Summary

	10100 Citizens Alliance	
601 WATER FUND		\$369.93
602 SEWER FUND		\$369.93
		<u>\$739.86</u>

Pre-Written Checks	\$0.00
Checks to be Generated by the Computer	\$739.86
Total	<u>\$739.86</u>

Payments

Current Period: December 2025

<b>Payments Batch 12-31-2025BOND</b>				<b>\$97,921.50</b>
Refer	238 CITIZENS ALLIANCE BANK			-
Cash Payment	E 320-41000-601	Debt Srv Bond Principal	2020B Street Reconstruction Bond	\$97,000.00
Invoice	12/1/2025			
Cash Payment	E 320-41000-611	Bond Interest	2020B Street Reconstruction Bond	\$921.50
Invoice	12/1/2025			
Transaction Date	12/31/2025	Citizens Alliance	10100	<b>Total \$97,921.50</b>

Fund Summary

	10100 Citizens Alliance	
320 2020B (Refund 2010A Road Recon	\$97,921.50	
	<u>\$97,921.50</u>	

Pre-Written Checks	\$0.00
Checks to be Generated by the Computer	\$97,921.50
Total	<u>\$97,921.50</u>

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Payments

Current Period: December 2025

<b>Payments Batch 12-31-25payrolltax</b>				<b>\$775.65</b>
Refer	234 UNITED STATES TREASURY	Ck# 002943E 12/30/2025		
Cash Payment	G 101-21701 Federal Withholding	12-31-25 Qtrly and Mthly Payroll		\$95.38
Invoice				
Cash Payment	G 101-21703 FICA Tax Withholding	12-31-25 Qtrly and Mthly Payroll		\$497.24
Invoice				
Cash Payment	G 101-21709 Medicare	12-31-25 Qtrly and Mthly Payroll		\$116.34
Invoice				
Transaction Date	12/30/2025	Citizens Alliance	10100	<b>Total</b> \$708.96
Refer	235 MN DEPT OF REVENUE	Ck# 002944E 12/30/2025		
Cash Payment	G 101-21702 State Withholding	12-31-25 Qtrly and Mthly Payroll		\$66.69
Invoice				
Transaction Date	12/30/2025	Citizens Alliance	10100	<b>Total</b> \$66.69

Fund Summary

	10100 Citizens Alliance	
101 GENERAL FUND		\$775.65
		\$775.65

Pre-Written Checks	\$775.65
Checks to be Generated by the Computer	\$0.00
Total	\$775.65

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Payments

Current Period: January 2026

<b>Payments Batch 01-02-26payrolltax</b>				<b>\$17,537.72</b>
Refer	310 <u>UNITED STATES TREASURY</u>	Ck# 002945E	1/9/2026	
Cash Payment	G 101-21701 Federal Withholding	01-02-26	BiWeekly Payroll	\$3,896.50
Invoice				
Cash Payment	G 101-21703 FICA Tax Withholding	01-02-26	BiWeekly Payroll	\$4,075.46
Invoice				
Cash Payment	G 101-21709 Medicare	01-02-26	BiWeekly Payroll	\$1,056.86
Invoice				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b> \$9,028.82
Refer	311 <u>MN DEPT OF REVENUE</u>	Ck# 002946E	1/9/2026	
Cash Payment	G 101-21702 State Withholding	01-02-26	BiWeekly Payroll	\$1,740.67
Invoice				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b> \$1,740.67
Refer	312 <u>PERA</u>	Ck# 002947E	1/9/2026	
Cash Payment	G 101-21704 PERA	01-02-26	BiWeekly Payroll	\$6,118.62
Invoice				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b> \$6,118.62
Refer	313 <u>BREMER BANK, N.A.</u>	Ck# 002948E	1/9/2026	
Cash Payment	G 101-21714 HSA Contribution	01-02-26	BiWeekly Payroll	\$649.61
Invoice				
Transaction Date	1/9/2026	Citizens Alliance	10100	<b>Total</b> \$649.61

Fund Summary

	10100 Citizens Alliance	
101 GENERAL FUND		\$17,537.72
		\$17,537.72

Pre-Written Checks	\$17,537.72
Checks to be Generated by the Computer	\$0.00
Total	\$17,537.72

Payments

Current Period: January 2025

<b>Payments Batch 01-08-26_NWSLTR_POST</b>					<b>\$477.09</b>
Refer	239 POSTMASTER				-
Cash Payment	E 101-41000-322	Postage	January Newsletter Postage		\$477.09
Invoice	091928	1/8/2026			
Transaction Date	1/8/2026	Citizens Alliance	10100	<b>Total</b>	<b>\$477.09</b>

Fund Summary

	10100	Citizens Alliance	
101 GENERAL FUND			\$477.09
			<u>\$477.09</u>

Pre-Written Checks	\$0.00
Checks to be Generated by the Computer	\$477.09
Total	<u>\$477.09</u>

CITY OF WATERTOWN

01/09/26 1:04 PM

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Payments

Current Period: January 2026

<b>Payments Batch 01-09-26payrolltax</b>		<b>\$7,179.52</b>
Refer	315 <u>UNITED STATES TREASURY</u>	<u>Ck# 002949E 1/9/2026</u>
Cash Payment	G 101-21701 Federal Withholding	01-09-26 FD Payroll and SUPP_PTO
Invoice		
Cash Payment	G 101-21703 FICA Tax Withholding	01-09-26 FD Payroll and SUPP_PTO
Invoice		
Cash Payment	G 101-21709 Medicare	01-09-26 FD Payroll and SUPP_PTO
Invoice		
Transaction Date	1/9/2026	Citizens Alliance 10100 <b>Total</b> <u>\$6,770.68</u>
Refer	316 <u>MN DEPT OF REVENUE</u>	<u>Ck# 002950E 1/9/2026</u>
Cash Payment	G 101-21702 State Withholding	01-09-26 FD Payroll and SUPP_PTO
Invoice		
Transaction Date	1/9/2026	Citizens Alliance 10100 <b>Total</b> <u>\$408.84</u>

Fund Summary

	10100 Citizens Alliance
101 GENERAL FUND	<u>\$7,179.52</u>
	\$7,179.52

Pre-Written Checks	\$7,179.52
Checks to be Generated by the Computer	<u>\$0.00</u>
Total	\$7,179.52