CITY OF RIVERSIDE
CITY COUNCIL MEETING AGENDA
RIVERSIDE CITY COUNCIL CHAMBERS
60 GREENE ST
RIVERSIDE, IOWA 52327

Monday, July 28, 2025 @ 6:00 PM

The meeting will be recorded and can be viewed live by visiting the City website at www.riversideiowa.gov.

NOTICE TO THE PUBLIC: This is a meeting of the City Council to conduct the regular business of the City. Every item on the agenda is an item of discussion and action if needed.

1. Call meeting to order
2. Roll Call
3. Approval of Agenda
4. Consent Agenda
    a. Minutes pg 3
    b. Expenditures pg 5
    c. Riverside Fire Department Report pg 7
    d. Alcohol Permit – Dollar General pg 8
    e. Tobacco Permit - Riverside Casino & Golf Resort
    f. Display Fireworks Permit – Riverside Casino & Golf Resort pg 9

5. **Public forum: 3 minutes per person. See guidelines for public comments at the Clerk's table.**

6. Acquisition of Auditor's Parcel "E" of Auditor's Parcel "D" pg 11
    a. Public Hearing
    b. Consider resolution to acquire Auditor's Parcel "E" of Auditor's Parcel "D" (2025-50)

7. Vacation of Auditor's Parcel "E" of Auditor's Parcel "D" pg 14
    a. Public Hearing
    b. Consider resolution to vacate and convey Auditor's Parcel "E" of Auditor's Parcel "D"

8. Wellness Center GO Bond - Maggie Burger, Speer Financial

9. PeopleService Report pg 19

10. City Engineer's Report (Axiom Consultants) pg 27
    a. Wellness Center
    b. PCC Improvements
        i. Consider resolution to approve Pay Application #2 to Hardscape Solutions of Iowa for Completion and Final Acceptance of the PCC Improvements Project pg 31
    c. Cherry Lane Street Extension Project
        i. Consider resolution to approve Pay Application #1 to Jones Contracting Corp pg 33
    d. Hall Park Pickleball Courts
        i. Consider resolution to approve Pay Application #1 to Bowker Pinnacle Mechanical pg 36
    e. CDBG Downtown Revitalization
        i. Consider resolution to approve Pay Application #2 to Cornerstone Commercial Contractors pg 45

11. City Administrator's Report
    a. Ordinance Amendment- Chapter 55 – Animal Protection and Control pg 46
        i. Motion to approve the first reading of Ordinance 2025-01
        ii. Motion to waive the requirements of Iowa Code 380.3 and place this measure on its final passage for adoption immediately
    b. Deputy Clerk Job Posting pg 49
    c. City Hall Cleaning
    d. City Fee Schedule pg 51
    e. FY2025 Audit RFP pg 57
    f. Rescue Fire Engine RFP pg 68
    g. Stumpf Construction Payment
    h. Property Nuisances
    i. Native Plantings
    j. Outdoor Warning Siren System Update
    k. Iowa League of Cities Annual Conference – September 18th, 2025
    l. June Financials pg 169

12. Closing Comments

13. Motion to Adjourn

RIVERSIDE CITY COUNCIL MEETING: Monday, July 7, 2025

The Riverside City Council meeting started at 6:00 pm in the Riverside City Council Chambers. Mayor Allen Schneider called the meeting to order with Ryan Rogerson, Kevin Kiene, Tom Sexton, Lois Schneider and Kevin Mills present.

Schneider moved, seconded by Sexton to approve the agenda moving item #7c to after agenda item #5. Passed 5-0.

Kiene moved, seconded by Rogerson, to approve the consent agenda of minutes, expenditures, alcohol permit renewals for Riverside Casino and Golf Resort and Holy Family Parish and Holy Family Parish's Street Closure Request. Passed 5-0.

Emily Linebaugh, Veenstra & Kimm, Inc. presented on Change Order #1 and Pay Application #6 for the work completed on the WWTP UV Disinfection System Replacement Project.

Motioned by Rogerson, seconded by Schneider to pass Resolution 2024-43 to approve Change Order #1 for the WWTP UV Disinfection System Replacement Project in the amount of $302.98. Passed 5-0.

Motioned by Rogerson, seconded by Sexton to pass Resolution 2025-44 to approve payment of Pay Application #6 for work completed on the WWTP UV Disinfection Replacement Project to WRH, Inc. in the amount of $273,836.50. Passed 5-0.

Brian Boelk, Axiom Consultants, gave the City Engineer's Report consisting of updates on the Wellness Center, PCC Improvements, Cherry Lane Street Extension Project, Hall Park Pickleball Courts and CDBG Downtown Revitalization.

Motioned by Kiene, seconded by Rogerson to pass Resolution 2025-45 to approve payment of Pay Application #1 for work completed on PCC Improvements in the amount of $35,525.65 to Hardscapes Solutions of Iowa. Passed 5-0.

Motioned by Sexton, seconded by Rogerson to pass Resolution 2024-46 to approve Change Order #1 for the Cherry Lane Street Extension Project in the amount of $502.40. Passed 5-0.

Motioned by Rogerson, seconded by Sexton to pass Resolution 2025-47 setting the date for Public Hearing for the acquisition of Auditor's Parcel "E" of Auditor's Parcel "D" for July 28, 2025. Passed 5-0.

Motioned by Sexton, seconded by Kiene to pass Resolution 2025-48 setting the date for Public Hearing for the vacation of Auditor's Parcel "E" of Auditor's Parcel "D" for July 28, 2025. Passed 5-0.

Motioned by Rogerson, seconded by Schneider to pass Resolution 2024-49 to approve Change Order #1 for the Hall Park Pickleball Courts Project in the amount of $5,704.00. Passed 5-0.

City Admin Smith presented the FY2024 Financial Audit Report, bids on the City Shop Boiler Replacement, and gave updates on the Outdoor Warning Siren System and Fire Engine Replacement.

Motioned by Schneider, seconded by Kiene to accept as presented the FY2024 Financial Audit Report. Passed 5-0.

Motioned by Sexton, seconded by Schneider to award the low bid on the City Shop Boiler Replacement to J&S Plumbing, Heating and Air Cond., Inc. not to exceed $9,558.00. Passed 5-0

Sexton moved, second by Kiene to adjourn at 7:45 pm. Passed 5-0.

Full content of City Council meetings can be viewed on the City website www.riversideiowa.gov.

Monday, July 28th, 2025 at 6:00 pm – City Council Meeting

Monday, August 18th, 2025 at 6:00 pm – City Council Meeting

ATTEST:

Stephanie Thomann

Stephanie Thomann, City Clerk

Allen Schneider (Jul 11, 2025 18:07 CDT)

Allen Schneider, Mayor

	EXPENDITURES JULY 28, 2025				
	COUNCIL MEETING	BILLS			
1	A TECH/FREEMAN	FD	002-5-150-6356	$84.00	
2	ABSOLUTE	FERTILIZER/INSECTICIDE	001-5-430-6320	$2,265.00	
3	AIRGAS	FD - RENT - OXYGEN	002-5-150-6415	$441.00	
4	ALLIANT ENERGY	STREET LIGHTS	001-5-230-6378	$1,433.78	
5	ALLIANT ENERGY	SEWER	610-5-815-6371	$1,579.21	
6	ALLIANT ENERGY	PARKS	001-5-430-6371	$831.20	
7	ALLIANT ENERGY	FIRE STATION	002-5-150-6371	$1,240.14	
8	ALLIANT ENERGY	CITY HALL	001-5-650-6371	$534.93	
9	ALLIANT ENERGY	WATER	600-5-810-6371	$68.17	$5,687.43
10	ALTORFER	FD GENERATOR REPAIR/MAIN.	002-5-150-6310	$660.00	
11	ALTORFER	WWTP GENERATOR REPAIR/MAIN.	610-5-815-6350	$1,019.00	
12	ALTORFER	LS5 GENERATOR REPAIR/MAIN.	610-5-815-6350	$758.00	
13	ALTORFER	LS3 GENERATOR REPAIR/MAIN.	610-5-815-6350	$648.00	
14	ALTORFER	WP GENERATOR REPAIR/MAIN.	600-5-810-6350	$105.24	$3,190.24
15	AXIOM CONSULTANTS	ON CALL SERVICES	001-5-650-6407	$3,798.75	
16	AXIOM CONSULTANTS	CDBG DTR	145-5-650-6435	$1,535.25	
17	AXIOM CONSULTANTS	PICKLEBALL	301-5-750-6744	$1,057.50	
18	AXIOM CONSULTANTS	WELLNESS CENTER	302-5-750-6786	$11,658.12	
19	AXIOM CONSULTANTS	CHERRY LANE EXT	301-5-750-6751	$9,041.25	$27,090.87
20	CASEYS	LAWNMOWER FUEL	001-5-430-6323	$360.88	
21	COLE SMITH	MILEAGE & TRAVEL EXPENSE	001-5-610-6240	$258.17	
22	CONSUMERS CO-OP	GAS	001-5-430-6331	$700.00	
23	CONSUMERS CO-OP	DIESEL	110-5-210-6331	$798.00	$1,498.00
24	DRAKE UNIVERSITY	FALL 2025 TUITION - COLE SMITH	001-5-650-6300	$4,419.00	
25	ECICOG	CDBG DTR	145-5-650-6435	$1,200.00	
26	GRONEWOLD, BELL, KYHNN & CO	AUDIT - FY2024	001-5-650-6401	$3,313.56	
27	IOWA ONE CALL	NOTICES	600-5-810-6374	$18.10	
28	IOWA ONE CALL	NOTICES	610-5-815-6374	$18.10	$36.20
29	IOWA PAPER	SUPPLIES	001-5-650-6506	$114.76	
30	IOWA PAPER	SUPPLIES	600-5-810-6506	$43.44	$158.20
31	J&S PLUMBING	FD AC BLOWER MOTOR/MAIN.	002-5-150-6310	$1,786.55	
32	J&S PLUMBING	BOILER REPLACEMENT	001-5-210-6310	$9,239.00	$11,025.55
33	JOHNSON COUNTY REFUSE	30 YARD BAGS	001-5-950-6499	$46.50	
34	KALONA AUTO PARTS	SUPPLIES	001-5-430-6332	$41.94	
35	LYNCH DALLAS	LEGAL EXP	001-5-640-6411	$775.00	
36	MARTIN GARDNER	CDBG DTR	145-5-650-6435	$1,342.50	
37	MARTIN'S FLAG COMPANY	FLAGS	001-5-430-6320	$956.99	
38	MAVERIK	FD FUEL	002-5-150-6331	$534.42	
39	MENARDS	SUPPLIES	001-5-430-6320	$169.20	
40	MENARDS	SUPPLIES	001-5-210-6506	$11.73	$180.93
41	MID AMERICAN	SHOP	001-5-210-6371	$0.00	
42	MID AMERICAN	FD	002-5-150-6371	$19.43	
43	MID AMERICAN	CITY HALL	001-5-650-6371	$14.54	$33.97
44	PAWS & MORE	Q2 2025 ANIMAL SHELTER DONATIONS	001-5-190-6413	$249.00	
45	PEOPLE SERVICE	SERVICE CONTRACT	600-5-810-6500	$13,626.50	
46	PEOPLE SERVICE	SERVICE CONTRACT	610-5-810-6500	$13,626.50	$27,253.00
47	PYRAMID SERVICES	SUPPLIES	001-5-430-6332	$39.04	
48	RACOM	FD PAGERS	002-5-150-6504	$3,513.00	
49	REC	SIGN	610-5-815-6371	$80.90	
50	REC	LIFT STATION	610-5-815-6371	$60.36	
51	REC	W/W PLANT	610-5-815-6371	$3,793.26	
52	REC	CASINO L/S	600-5-810-6371	$333.76	
53	REC	WATER PLANT	001-5-230-6371	$3,005.25	
54	REC	TRAFFIC LIGHT	001-5-210-6371	$145.59	
55	REC	SHOP	001-5-210-6372	$60.36	$7,479.48
56	RELIANT	LADDER TRUCK 162 REPAIR	002-5-150-6352	$761.77	
57	SCHNOEBELEN INC	UPS	610-5-815-6374	$27.66	
58	SCHNOEBELEN INC	UPS	600-5-810-6374	$27.66	$55.32
59	THE NEWS	PUBLICATIONS	001-5-650-6402	$227.54	
60	TOP GUN SPRAYING & SEEDING	LAGOONS	610-5-815-6320	$1,500.00	
61	VISA	YOUTUBE TV	002-5-150-6357	$88.80	
62	VISA	HAMMER DRILL	001-5-210-6504	$373.97	
63	VISA	SUPPLIES	001-5-650-6506	$18.19	
64	VISA	HOTEL/CONF.	001-5-620-6240	$591.36	
65	VISA	SOFTWARE	001-5-650-6419	$41.18	

66	VISA	POSTAGE	001-5-650-6508	$0.73	
67	VISA	IaCMA CONFERENCE	001-5-610-6240	$245.00	
68	VISA	IaCMA DUES	001-5-610-6200	$120.00	
69	VISA	PARKING	001-5-650-6240	$1.75	
70	VISA	CITY HALL SUPPLIES	001-5-650-6506	$1,089.54	
71	VISA	DOG WASTE BAGS	001-5-430-6507	$79.09	$2,649.61
72	WHITE CAP	TOOLS/EQUIP	002-5-150-6504	$1,679.97	
	TOTAL BILLS********|			**$110,348.08**	
	IPERS	CONTRIBUTIONS - JUNE 2025	$ 3,648.72		
	1ST NAT'L BANK	HEALTH SAVINGS	$ 1,216.66		
	IOWA DEPT OF REVENUE	IOWA W/HOLD - JUNE 2025	$ 767.75		
	IOWA DEPT OF REVENUE	IOWA SALES TAX - JUNE 2025	$ 883.80		
	IOWA DEPT OF REVENUE	IOWA WET TAX - JUNE 2025	$ 1,549.54		
	IRS	941 TAX DEPOSIT - JUNE 2025	$ 7,486.19		
	PAYROLL	PAYROLL - JUNE 2025	$ 26,950.00		
	**********	**TOTAL PAID BILLS**	**$42,502.66**		
	**********	**TOTAL EXPENDITURES**	**$152,850.74**		
	EXPENDITURES by FUND				
	GENERAL FUND		$ 32,648.17		
	FIRE DEPARTMENT		$ 10,809.08		
	ROAD USE FUND		$ 798.00		
	COMMUNITY CENTER		$ 11,658.12		
	CASINO		$ 4,077.75		
	CAPITAL PROJECTS		$ 10,098.75		
	WATER FUND		$ 16,789.12		
	SEWER FUND		$ 23,469.09		
	TOTAL EXPENDITURES		**$ 110,348.08**		
	MTD TREASURERS REPORT				
	6/30/2025	**REVENUES**	**EXPENSES**	**BALANCE**	
	GENERAL FUND	-$11,045.24	$81,141.93	$562,437.73	
	FIRE DEPT FUND	$14,719.54	$ 93,331.29	$193,232.00	
	ROAD USE TAX FUND	$18,690.39	$1,094.57	$205,048.64	
	LOCAL OPTION SALES TAX	$12,305.36	$0.00	$158,244.24	
	TIF REVENUE	$4.40	$0.00	$19,008.76	
	CASINO REVENUE RUND	$117,485.07	$ 75,990.20	$2,338,671.33	
	CAPITAL PROJECTS FUND	$4,691.41	$46,032.39	$399,875.06	
	COMMUNITY CENTER FUNDS	$4,789.35	$30,533.45	$1,422,696.62	
	WATER FUND	$31,053.43	$42,029.05	$42,773.86	
	SEWER FUND	$34,651.86	$39,411.83	$559,585.67	
	STORM WATER FUND	$1,818.18	$0.00	$21,787.63	
	TOTAL	**$229,163.75**	**$409,564.71**	**$5,923,361.54**	

RIVERSIDE FIRE DEPARTMENT

FIRE / RESCUE / EMS / HAZMAT

May 2025 Update

Calls for Service:

Medicals – 20
Building Fire Response – 2
Trash/Rubbish Fire - 1

Total calls – 23 calls in June

Training:

The members trained fire ground operations and incident command.

RESA: The members began planning for the fall raffle dinner. This year the event will be held at RFD so we can expand the event.

Other News:

The new ranger was purchased and is in the station. The members are working on figuring out what type of skid unit we want for the UTV. The insurance claim on the engine was taken over by the City insurance company and they have totaled out the vehicle. We are working on getting a bid on a new engine and hopefully we can get the engine from Pierce as they have one that would be what we want and ready by September of 2026. The Chief will get bids from comparable companies but build times are currently 48 months or longer at most manufacturers. The county EMS group has got the tax levy language ready and working of the details of the MOU. It looks like the BOS have approved the ballot language and we hope to have it on the ballot in November for a county wide vote. This would be a much needed help to the EMS system in the county and finally bring in money for services for providing service. The Chief's will have more on this in the coming months and will have some town hall type meetings to inform the public of the tax levy.

Proudly Serving
Chief Smothers

Stephanie Thomann

From: noreply@salesforce.com on behalf of IOWA ABD Licensing Support <licensingnotification@iowaabd.com>
Sent: Thursday, July 10, 2025 7:50 AM
To: Stephanie Thomann
Cc: licensingnotification@iowaabd.com
Subject: Application App-225030 Ready for Review

Hello,

Application Number App-225030 has been set to "Submitted to Local Authority" status and is currently ready for your review.

Corp Name: DOLGENCORP, LLC

DBA: Dollar General #21630

License Number: LG0000862

Application Number: App-225030

Tentative Effective Date: 9/19/2025

License Type: Class B Retail Alcohol License (LG)

Application Type: Renewal

Amendment Type:

Thank you.

City of RIVERSIDE

Trek

"Where the ~~Best~~ Begins"

DISPLAY FIREWORKS PERMIT APPLICATION

Riverside Code 124.06. City Council may, upon applications in writing, grant a permit for the use of Display Fireworks by municipalities, fair associations, amusement parks, or other organizations or groups approved by the City when the Display Fireworks will be handled by a competent operator as determined by the Fire Chief.

Proof of Insurance: Personal Injury, $500,000 per person; Property Damage $500,000; Total exposure $1,000,000.

Display Date: 8/2/2025 Rain Date, if applicable: 8/3/2025

Time of Display: 9:30pm

Permit Fee: $35.00

Name of Organization Purchasing Display:
Riverside Casino & Golf Resort

Address: 3184 Hwy 22

City, State, Zip: Riverside, IA 52327

Phone: 319-648-1234 E-mail: Kelly.Heth@riversidecasinoandresort.com
Damon.John@riversidecasinoandresort.com

Contact Name: Kelly Heth / Damon John

Address: 3184 Hwy 22

City, State, Zip: Riverside, IA 52327

Phone: Kelly = 319-415-0645 E-mail:
Damon = 712-460-3112

Name of designated Pyrotechnician:
J & M Displays

Location of Event: Riverside Casino & Golf Resort

Insurance Certificate Holder: J & M Displays

Proof of Insurance Included with application: ◉ Yes ○ No

Council Approval: _____

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 5/12/2025

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

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

PRODUCER Acrisure Great Lakes Partners Insurance Services 223 West Grand River Ave #1 Howell MI 48843	**CONTACT NAME:** **PHONE (A/C, No, Ext):** 216-658-7100 **FAX (A/C, No):** 216-658-7101 **E-MAIL ADDRESS:**
INSURED J & M Displays, Inc. 18064 170th Avenue Yarmouth IA 52660	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A :** Everest Denali Insurance Company — 16044 **INSURER B :** AXIS Surplus Insurance Company — 26620 **INSURER C :** James River Insurance Company — 12203 **INSURER D :** Arch Specialty Ins Co **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 123895917 **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	X **COMMERCIAL GENERAL LIABILITY** [ ] CLAIMS-MADE [X] OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: [X] POLICY [X] PRO-JECT [ ] LOC OTHER:			P0000004658	1/15/2025	1/15/2026	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 50,000 $ $ 1,000,000 $ 3,000,000 $ 2,000,000
A	**AUTOMOBILE LIABILITY** X ANY AUTO [ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY			SI8CA00033-251	1/15/2025	1/15/2026	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
D	[ ] **UMBRELLA LIAB** X OCCUR X **EXCESS LIAB** [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $			UXP1057616-00	1/15/2025	1/15/2026	EACH OCCURRENCE AGGREGATE	$ 4,000,000 $ 4,000,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? [ ] **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					[ ] PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $
B	Excess Liability #2			P-001-000063943-07	1/15/2025	1/15/2026	Each Occ/ Aggregate Total Limits	$5,000,000 $10,000,000

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

Additional Insured extension of coverage is provided by above referenced General Liability policy where required by written agreement or permit.
FIREWORKS DISPLAY DATE: August 2, 2025

LOCATION OF EVENT: Riverside Casino & Golf Resort

ADD'L INSURED: The City of Riverside, Iowa, and the County of Washington, Iowa, their employees, volunteers, officers, elected officials, partners, subsidiaries, divisions & affiliates, event sponsors & landowners as their interests may appear in relation to this event; Riverside Casino & Golf Resort (sponsor)

CERTIFICATE HOLDER

Riverside Casino & Golf Resort
3184 Highway 22
Riverside IA 52327
USA

CANCELLATION

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

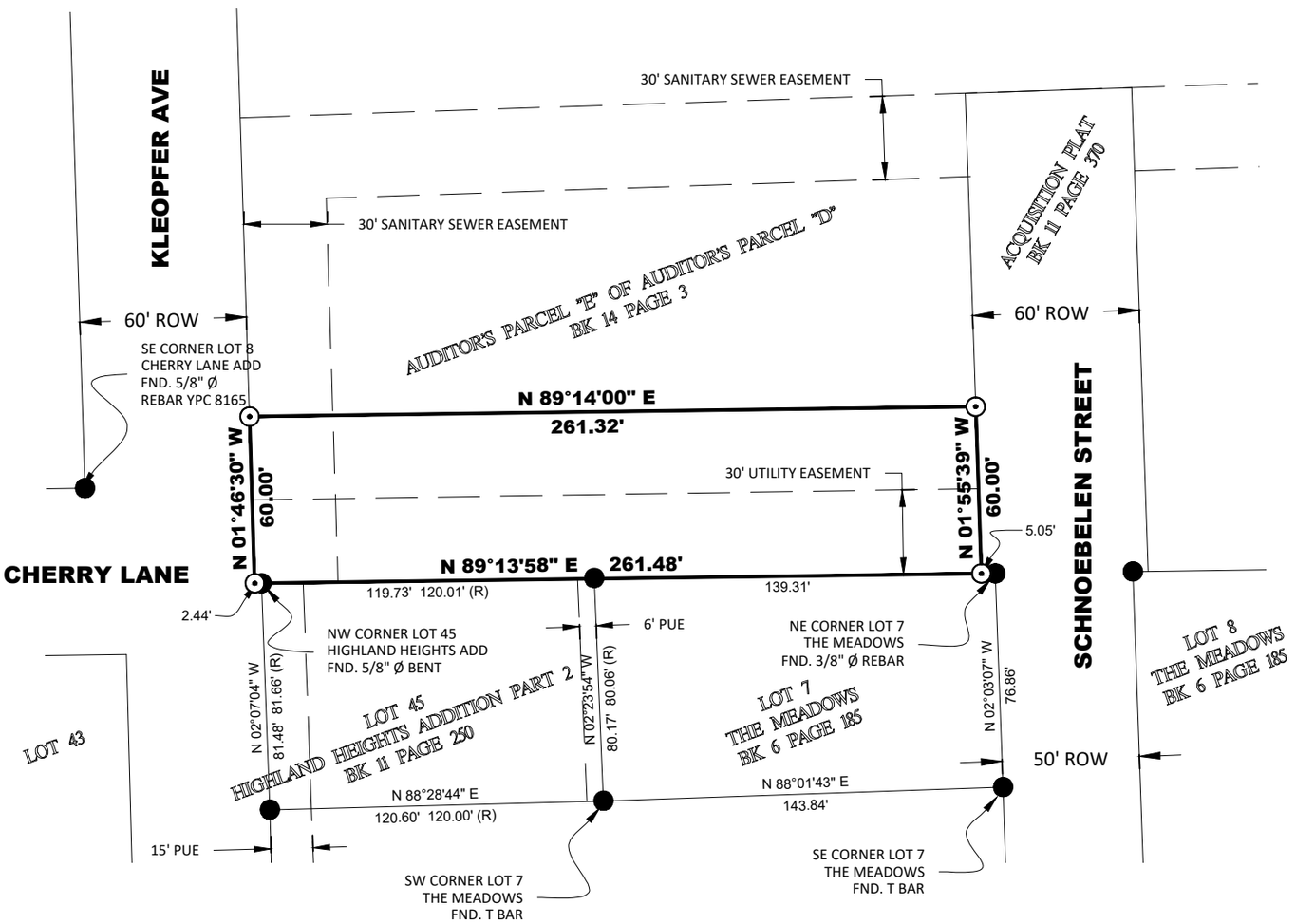
AUTHORIZED REPRESENTATIVE

RECORDER'S INDEX	FOR RECORDER'S USE ONLY
COUNTY: WASHINGTON	
SECTION: 8-77-06	
QUARTER SECTION: NE 1/4 SW 1/4	
CITY: RIVERSIDE	
SUBDIVISION: NA	
LOT(S)/BLOCK: NA	
PARCEL ID #: 0408326004	
PROPRIETOR: HIGHLAND COMMUNITY SCHOOL	
REQUESTED BY: CITY OF RIVERSIDE	
PREPARED BY: AXIOM CONSULTANTS, LLC, 300 S. Clinton St. Unit 200, Iowa City, IA 52240 - PH# 319.519.6220	

ACQUISITION PLAT

AUDITOR'S PARCEL "E" OF AUDITOR'S PARCEL "D"

CITY OF RIVERSIDE, WASHINGTON COUNTY, IOWA



LEGEND

▲	SECTION CORNER-AS LABELED
⊙	SET 3/4" Ø PIPE OPC #19828
●	FOUND-AS LABELED
OPC	ORANGE PLASTIC CAP
———	PROPOSED BOUNDARY
———	EXISTING PROPERTY LINE
— — — —	EXISTING EASEMENT
(R)	PREVIOUSLY RECORDED AS

LEGAL DESCRIPTION

The South 60 feet of Auditor's Parcel "E" of Auditor's "D" as recorded in Book 14, Page 3 of the Washington County Recorder's office lying west of Schnoebelen Street and east of Kleopfer Ave in the Northeast 1/4 of the Southwest 1/4 of Section 8, Township 77 North, Range 6 West of the 5th P.M. in the City of Riverside, Washington County, Iowa.

PROFESSIONAL LAND SURVEYOR
BRADLEY R. GEATER 19828
IOWA

I HEREBY CERTIFY THAT THIS LAND SURVEYING DOCUMENT WAS PREPARED AND THE RELATED SURVEY WORK WAS PERFORMED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF IOWA.

DRAFT

BRADLEY R. GEATER, P.L.S., P.E. DATE
LICENSE NUMBER 19828.
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2025.
PAGES OR SHEETS COVERED BY THIS SEAL: THIS PLAT

S:\PROJECTS\2024\240021 - City of Riverside Cherry Lane Extension\05 Design\Civil-Survey\Plats\240021 -Cherry acquistion.dwg

AXIOM CONSULTANTS
WWW.AXIOM-CON.COM | (319) 519-6220

SHEET TITLE: ACQUITSION PLAT		PROJECT MANAGER: BB	PROJECT NO.: 240021
PROJECT NAME: CHERRY LANE	11	DATE ISSUED: 1/7/2025	SHEET NUMBER: 01
		CURRENT REV: A	

0 30 60
1" = 60'

Preparer: Conner L. Wasson, 100 Court Avenue, Ste. 600, Des Moines, Iowa 50309; (515) 246-4403
Return To: City of Riverside, Iowa, 60 Greene St., Riverside, Iowa, 52327_
Taxpayer: City of Riverside, Iowa, 60 Greene St., Riverside, Iowa, 52327

DEED WITHOUT WARRANTY

For the consideration of One Dollar and other valuable consideration, **Highland Community School District** does hereby convey to **City of Riverside, Iowa** the following described real estate in Washington County, Iowa:

See attached acquisition plat.

This transfer is exempt from transfer tax under Iowa Code Chapter 428A.2(6).

Dated: June ____ 2025.

HIGHLAND COMMUNITY SCHOOL DISTRICT

By: _____ By: _____
Nate Robinson, Board President Autumn Moyer, Board Secretary

STATE OF IOWA, COUNTY OF _____:

On June _____, 2025, before me, the undersigned, a Notary Public in and for the State of Iowa, personally appeared Nate Robinson and Autumn Moyer, to me personally known, who, being by me duly sworn, did say that they are the President and Secretary, respectively, of the Board of Directors of the Highland Community School District, the corporation executing the within and foregoing instrument, that no seal has been procured by the corporation; that the instrument was signed on behalf of the corporation by the authority of its Board of Directors; and that the President and Secretary, as such officers, acknowledged the execution of the instrument to be the voluntary act and deed of the corporation, by it and by them voluntarily executed.

_____
Notary Public In And For Said State

02323798\99500-015

4906-4463-9049-1\17869-1000

RESOLUTION #2025-XX

RESOLUTION TO VACATE AND CONVEY AUDITOR'S PARCEL "E" OF AUDITOR'S PARCEL "D"

WHEREAS, the Riverside Planning & Zoning Commission met on June 24th, 2025 at 5:30 pm for the review of the final plat and recommended approval to the Riverside City Council; and

WHEREAS, the Riverside City Council held a public hearing on July 28th, 2025 at 6:00 pm; and

NOW, THEREFORE, BE IT RESOLVED, that the City Council of Riverside, Iowa does hereby approve the vacation and conveyance of Auditor's Parcel "E" of Auditor's Parcel "D" to Highland School District.

BE IT FURTHER RESOLVED, by the City Council of Riverside, Iowa that the Mayor and City Administrator are hereby authorized and directed to execute said resolution.

It was moved by Councilperson _____, seconded by Councilperson _____ to approve the foregoing resolution.

Roll Call: Rogerson, Kiene, Schneider, Mills, Sexton

Ayes:

Nays:

Absents:

PASSED AND APPROVED by the Riverside City Council on this 28th day of July 2025.

Signed: _____ Date_____

Allen Schneider, Mayor

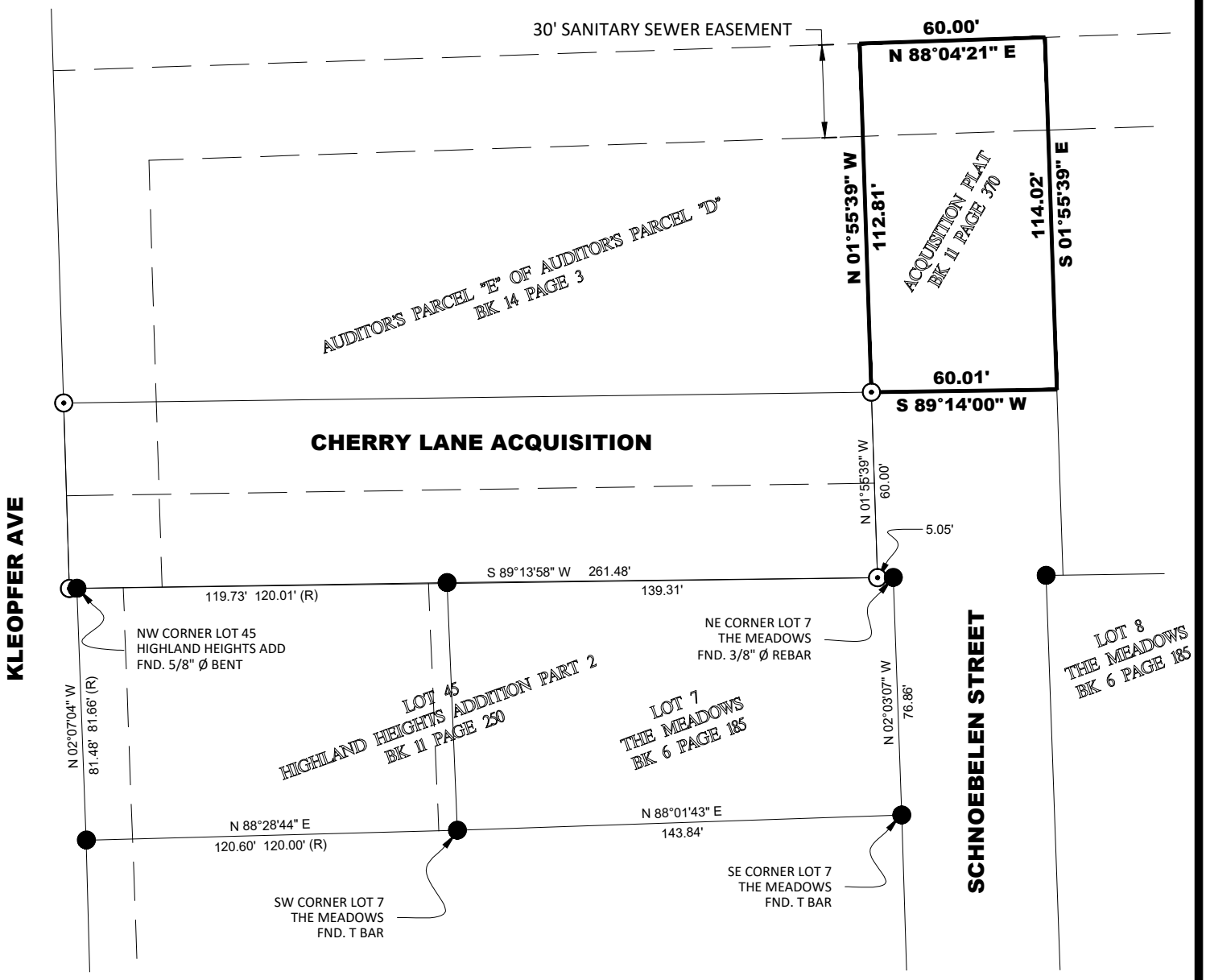
Signed: _____ Date_____

Stephanie Thomann, City Clerk

RIGHT OF WAY VACATION EXHIBIT

Auditor's Parcel "E" of Auditor's Parcel "D"

CITY OF RIVERSIDE, WASHINGTON COUNTY, IOWA



LEGAL DESCRIPTION

The portion of Schnoebelen Street as shown in Acquisition and Easement Plat in Book 11 Page 370 lying North of the Cherry Lane Extension project being part of Auditor's Parcel "E" of Auditor's Parcel "D" as recorded in Book 14, Page 3 of the Washington County Recorder's in the Northeast 1/4 of the Southwest 1/4 of Section 8, Township 77 North, Range 6 West of the 5th P.M. in the City of Riverside, Washington County, Iowa described as:

Commencing at the Northeast corner Lot 7 of The Meadows as recorded in Book 6, Page 185 of the Washington County Recorder's Office, thence S89°13'58"W, 5.05 feet; thence N01°55'39"W, 60.00 feet to the Point of Beginning; thence continuing N01°55'39"W, 112.81 feet; thence N88°04'21"E, 60.00 feet; thence S01°55'39"E, 114.02 feet; thence S89°14'00"W, 60.01 feet to the Point of Beginning.

Described area contains 0.16 acres, is subject to a 30 foot sanitary sewer easement and other restrictions of record.

S:\PROJECTS\2024\240021 - City of Riverside Cherry Lane Extension\05 Design\Civil-Survey\Plats\240021 -Cherry vacation exhibit.dwg

AXIOM CONSULTANTS
WWW.AXIOM-CON.COM | (319) 519-6220

SHEET TITLE: RIGHT OF WAY VACATION EXHIBIT	PROJECT MANAGER: BB	PROJECT NO.: 240021	0 25 50
PROJECT NAME: CHERRY LANE EXTENSION	DATE ISSUED: 1/14/25	SHEET NUMBER: 01	1" = 50'
	CURRENT REV: A		

Preparer/Return To: Daniel M. Morgan of Lynch Dallas, P.C., 316 2nd Street SE, Suite 124, Cedar Rapids, IA 52406 Phone: 319-365-9101
Taxpayer Information: Highland Community School District, 715 Vine Avenue, Riverside, IA 52327

QUIT CLAIM DEED

For the consideration of One Dollar and other valuable consideration, the **CITY OF RIVERSIDE, IOWA**, an Iowa municipal corporation, hereby Quit Claims to **HIGHLAND COMMUNITY SCHOOL DISTRICT**, an Iowa school corporation, all of its right, title, interest, estate, claim and demand in the following described real estate in Washington County, Iowa:

The portion of Schnoebelen Street as shown in Acquisition and Easement Plat in Book 11 Page 370 lying north of the Cherry Lane Extension Project being part of Auditor's Parcel "E" of Auditor's Parcel "D" as recorded in Book 14, Page 3 of the Washington County Recorder's in the Northeast ¼ of the Southwest ¼ of Section 8, Township 77 North, Range 6 West of the 5th P.M. in the City of Riverside, Washington County, Iowa described as:

Commencing at the Northeast corner Lot 7 of The Meadows as recorded in Book 6, Page 185 of the Washington County Recorder's Office, thence S89°13'58"W, 5.05 feet; thence N01°55'39"W, 60.00 feet to the point of beginning; thence continuing N01°55'39"W, 112.81 feet; thence N88°04'21"E, 60.00 feet; thence S01°55'39"E, 114.02 feet; thence S89°14'00"W, 60.01 feet to the point of beginning.

Described area contains 0.16 acres, is subject to a 30 foot sanitary sewer easement and other restrictions of record.

There is no known private burial site, well, solid waste disposal site, underground storage tank, hazardous waste, or private sewage disposal system on the property as described in Iowa Code Section 558.69, and therefore the transaction is exempt from the requirement to submit a groundwater hazard statement.

This transfer is exempt from revenue stamps and Declaration of Value pursuant to Iowa Code §428A.2(19) this being a deed executed by public officials in the performance of their official duties.

This transfer was approved by the City Council of the City of Riverside, Iowa, Resolution No. _____.

Words and phrases herein, including acknowledgment hereof, shall be construed as in the singular or plural number, and as masculine or feminine gender, according to the context.

Dated this _____ day of _____ 2025.

By: _____ Attest: _____
Allen Schneider, Mayor Cole Smith, City Administrator

STATE OF IOWA)
)§
COUNTY OF WASHINGTON)

This instrument was acknowledged before me on the _____ day of _____, 2025, by **Allen Schneider,** as Mayor for the City of Riverside, Iowa known to me to be the same individual named in and who executed the foregoing document and acknowledged that he executed the same as his voluntary act and deed on behalf of the City of Riverside.

_____
Notary Public in and for said State

STATE OF IOWA)
)§
COUNTY OF WASHINGTON)

This instrument was acknowledged before me on the _____ day of _____, 2025, by **Cole Smith**, as City Administrator for the City of Riverside, Iowa known to me to be the same individual named in and who executed the foregoing document and acknowledged that he executed the same as his voluntary act and deed on behalf of the City of Riverside.

_____
Notary Public in and for said State

Prepared By/Return to: Stephanie Thomann, City of Riverside, Iowa,
60 Greene Street, Riverside, IA 52327 Phone: (319) 648-3501

CERTIFICATE OF CITY CLERK

STATE OF IOWA, COUNTY OF WASHINGTON, ss:

I, Stephanie Thomann, City Clerk of the City of Riverside, Iowa, do hereby certify that the attached Resolution No. _____ and any attachments thereto, are true and complete copies of the original instruments filed in the Office of the City Clerk of Riverside, Iowa. I further certify that the date set forth on the attached Resolution is the date said action was taken by the City Council of the City of Riverside, Iowa.

I further certify that Notice of Public Hearing was published on _____, 2025, according to publication requirements of Section 362.3 of the Code of Iowa as set forth on the attached copy of the notice as published in the _____.

Signed and dated this ____ day of _____ 2025.

_____
Stephanie Thomann, City Clerk

STATE OF IOWA,
COUNTY OF WASHINGTON, ss:

Subscribed and sworn to before me by Stephanie Thomann, in her capacity as City Clerk of the City of Riverside, Iowa on this _____ day of _____ 2025.

_____
Notary Public in and for said State

RESOLUTION #2025-XX

RESOLUTION TO VACATE AND CONVEY AUDITOR'S PARCEL "E" OF AUDITOR'S PARCEL "D"

WHEREAS, the Riverside Planning & Zoning Commission met on June 24th, 2025 at 5:30 pm for the review of the final plat and recommended approval to the Riverside City Council; and

WHEREAS, the Riverside City Council held a public hearing on July 28th, 2025 at 6:00 pm; and

NOW, THEREFORE, BE IT RESOLVED, that the City Council of Riverside, Iowa does hereby approve the vacation and conveyance of Auditor's Parcel "E" of Auditor's Parcel "D" to Highland School District.

BE IT FURTHER RESOLVED, by the City Council of Riverside, Iowa that the Mayor and City Administrator are hereby authorized and directed to execute said resolution.

It was moved by Councilperson _____, seconded by Councilperson _____ to approve the foregoing resolution.

Roll Call: Rogerson, Kiene, Schneider, Mills, Sexton

Ayes:

Nays:

Absents:

PASSED AND APPROVED by the Riverside City Council on this 28th day of July 2025.

Signed: _____ Date_____

Allen Schneider, Mayor

Signed: _____ Date_____

Stephanie Thomann, City Clerk

Date: July 23, 2025

To: Riverside Council

From: Jed Wolf & Branden Havens, Operators & Steve Robinette, Region Manager

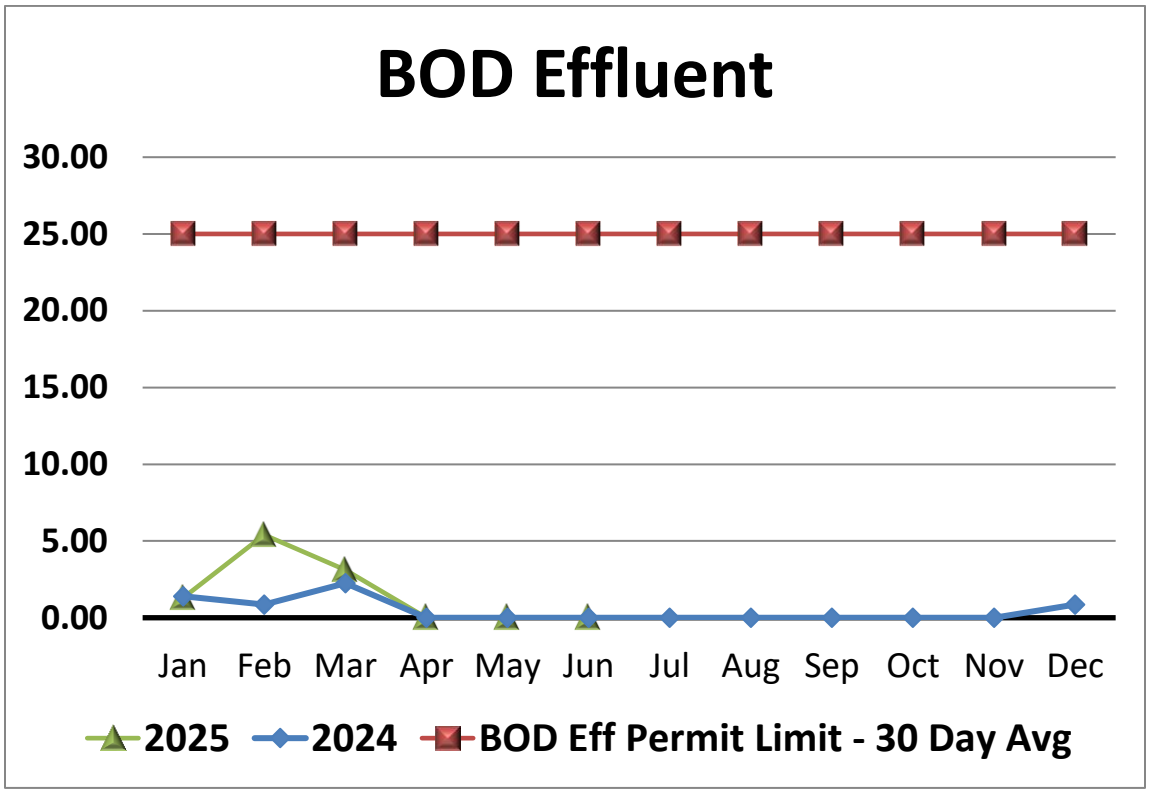
O & M Report: June 2025

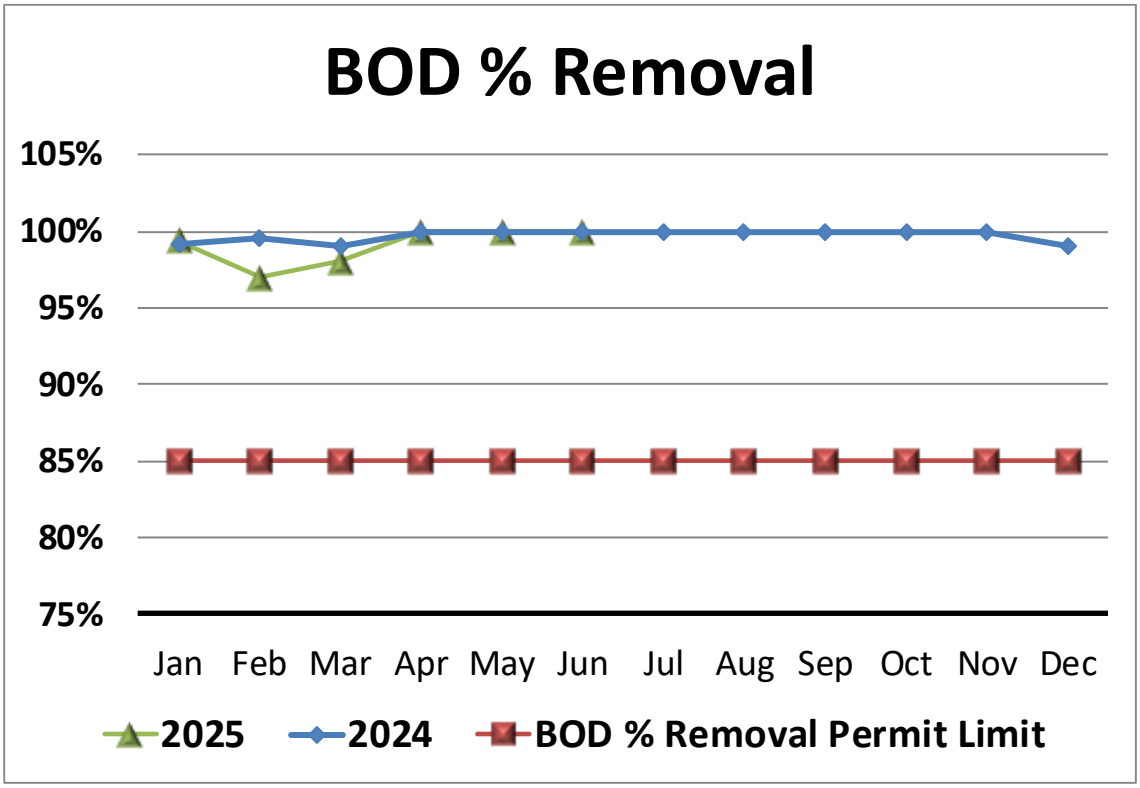
Water Operation & Maintenance

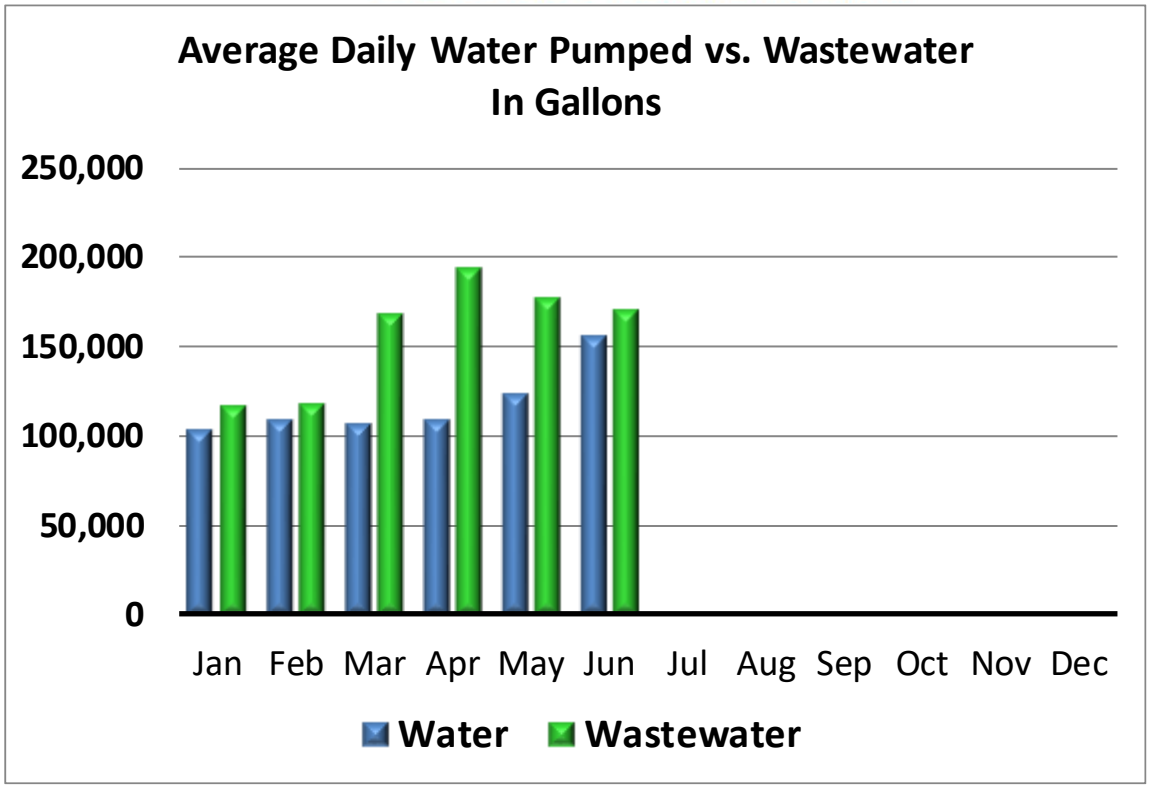
- The letter of non-compliance for the 2024 Minor Source Emissions inventory that was received on May 28th was an error. The City of Riverside is not required to participate in this inventory because it does not meet the qualifications for generator emissions.
- We took Gross Alpha, Combined Radium, TTHM and HAA5 samples on 7/22/25
- We painted several hydrants last month with the intention of painting more as time allows.
- Branden passed his Grade 1 water distribution exam. Jed is scheduled for his Grade 2 water and wastewater exams in September.

Wastewater Operation & Maintenance

- Annual generator inspections were done this month along with the scheduled maintenance.
- We took a special e. Coli sample to verify the UV system was working and it came back non-detect.
- We were getting high temperature alarms in the UV control center and discovered a wiring problem which has since been resolved.
- We received the repaired pump head for the Raw composite sampler.
- The WWTP lagoons have been sprayed..


BOD Effluent
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
2025
2024
BOD Eff Permit Limit - 30 Day Avg


BOD % Removal
105%
100%
95%
90%
85%
80%
75%
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
2025
2024
BOD % Removal Permit Limit



Contract True-Ups - Current Contract Year				
Item	**Budgeted Amount**	**Amount Spent**	**% of Budget**	**% of Time**
Chemical Budget	$30,080.00	$22,954.41	76%	100%
Maintenance Budget	$25,066.00	$18,276.41	73%	100%
Total	$55,146.00	$41,230.82	75%	100%

		June-25	May-25	June-24
Water	**Units**			
Total Monthly Pumped	gallons	4,678,700	3,844,000	4,624,000
Average Daily Pumped	gallons	155,930	124,000	154,130
Maximum Daily Pumped	gallons	211,000	193,000	222,000
Minimum Daily Pumped	gallons	113,000	78,000	112,000
Chlorine				
Chlorine - Total Avg Residual Plant	mg/L	1.43	1.80	2.45
Chlorine - Total Avg Residual System	mg/L	0.87	1.04	1.86
Chlorine - Minimum Required Residual System	mg/L	0.30	0.30	0.30
Chlorine used	gallons	251.00	205.50	158.00
Iron				
Iron - Avg Raw	mg/L	1.46	1.45	1.55
Polyphosphate				
Polyphosphate - Avg Residual	mg/L	2.51	2.50	2.45
Polyphosphate - Recommended Residual	mg/L	1.5-3.0	1.5-3.0	1.5-3.0
Polyphosphate used	gallons	36.50	32.00	35.00
Water Loss				
Water Billed	gallons	3,604,717	3,137,028	3,838,007
Water used in main breaks/hydrant flushing etc…	gallons	0	0	30,000
Water used at city buildings	gallons	51,774	48,158	65,000
Loss	gallons	14%	11%	11%
Wastewater				
BOD				
BOD Influent Avg	mg/L	138	132	168
BOD Effluent Avg	mg/L	0	0.0	0
BOD Eff Permit Limit - 30 Day Avg	mg/L	25	25	25
BOD % Removal	%	100.00%	100.00%	100.00%
TSS				
TSS Influent Avg	mg/L	132	71	164
TSS Effluent Avg	mg/L	3	6	5
TSS Effluent Permit Limit - 30 Day Avg	mg/L	30	30	30
TSS % Removal	%	98.00%	84.00%	97.00%
Nitrogen Ammonia				
NA Effluent Avg	mg/L	0	0	0
NA Effluent Permit Limit - 30 Day Avg	mg/L	4	6	4
Influent Flow				
Total Monthly	gallons	5,135,400	5,499,800	5,270,200
Average Daily	gallons	171,180	177,412	175,673
Maximum Daily	gallons	302,500	304,000	285,300
Minimum Daily	gallons	118,400	110,100	124,500
Permit Limit - 30 Day Avg	gallons	444,000	444,000	444,000
Permit Limit - Daily Maximum	gallons	1,425,000	1,425,000	1,425,000

PeopleService INC.
Water & Wastewater Professionals

RIVERSIDE--JUNE '25

Water Plant Maintenance

Date	Vendor List	Description	Total
6/30/25	Vessco	Metering Monitor	$1,734.00
6/30/25	USA Bluebook	PCT Tester	$142.98
6/30/25	Vessco	Pump	$2,094.40
6/30/25	USA Bluebook	CL17 Reagent	$658.43
		Total	**$4,629.81**

Water System Maintenance

Date	Vendor List	Description	Total
6/22/25	First National Bank/VISA	Supplies	$80.75
		Total	**$80.75**

Wastewater Plant Maintenance

Date	Vendor List	Description	Total
6/2/25	Automatic Systems	PLC Batteries	$265.62
6/2/25	Automatic Systems	Transfer Switch	$2,157.50
		Total	**$2,423.12**

Wastewater System Maintenance

Date	Vendor List	Description	Total
6/4/25	Microbac Lab	Environmental Fee	$59.50
6/22/25	First National Bank/VISA	Supplies	$80.75
		Total	**$140.25**

Water Plant Maintenance	$4,629.81
Water System Maintenance	$80.75
W/W Plant Maintenance	$2,423.12
W/W System Maintenance	$140.25
Month Total	$7,273.93

Annual Maintenance Budget $25,066.00

Total Maintenance Dollars Spent Year to Date	**$18,276.41**
Percent Maintenance Budget Spent Year to Date	**73%**

PeopleService INC.
Water & Wastewater Professionals

RIVERSIDE - JUNE '25

Water System Chemicals

Date	Vendor List	Description	Total
6/25/25	Hawkins	Sodium Hypochlorite	$668.25
		Total	**$668.25**

Wastewater System Chemicals

Date	Vendor List	Description	Total
		Total	**$0.00**

Water System Chemicals	$668.25
W/W System Chemicals	$0.00
Month Total	$668.25
Annual Chemical Budget	$30,080.00
Total Chemical Dollars Spent Year to Date	**$22,954.41**
Percent Chemical Budget Spent Year to Date	**76%**

Maintenance Month Total	$7,273.93
Chemical Month Total	$668.25
Month Total	**$7,942.18**
Annual Budget	**$55,146.00**
Total Spent Year to Date	**$41,230.82**
Percent Budget Spent Year to Date	**75%**

Date Completed	Equipment	Task
6/23/2025	BLOWERS	Monthly PM
6/20/2025	WWTP GENERATOR	Monthly PM
6/24/2025	LIFT STATION #1	LS Monthly PM
6/24/2025	LIFT STATION #2	LS Monthly PM
6/24/2025	LIFT STATION #3	LS Monthly PM
6/24/2025	LIFT STATION #4	LS Monthly PM
6/24/2025	LIFT STATION #5	LS Monthly PM
6/20/2025	EQ BASIN STATION	LS Monthly PM
6/20/2025	SAM (SURGE ANOXIC MIX) PUMP #1	Annual PM
6/20/2025	SAM (SURGE ANOXIC MIX) PUMP #2	Annual PM
6/20/2025	SBR PUMP 1A	Annual PM
6/20/2025	SBR PUMP 1B	Annual PM
6/20/2025	SBR Pump 2A	Annual PM
6/20/2025	SBR PUMP 2B	Annual PM
6/20/2025	Sludge Pump	Annual PM
6/20/2025	EFFLUENT SAMPLER	Monthly PM
6/20/2025	INFLUENT SAMPLER	Monthly PM
6/24/2025	SCREEN UNIT	Monthly PM
6/20/2025	UV SYSTEM	Monthly PM
6/20/2025	FIRE EXTINGUISHERS	Inspection
6/24/2025	Lift Station Generator #1	Generator Monthly
6/24/2025	Lift Station Generator #2	Generator Monthly
6/24/2025	Lift Station Generator #4	Generator Monthly
6/24/2025	Lift Station Generator #5	Generator Monthly
6/24/2025	Lift Station Generator #3	Generator Monthly
6/26/2025	FILTER	Monthly PM
6/26/2025	CARTRIDGE FILTERS	Monthly PM
6/20/2025	DEHUMIDIFIERS	Monthly PM
6/24/2025	WATER PLANT GENERATOR	Monthly PM
6/20/2025	HIGH SERVICE PUMPS	Monthly PM
6/20/2025	FIRE EXTINGUISHERS	Inspection

ENGINEER'S REPORT

PROJECT: City of Riverside
DATE: July 21, 2025
TO: City Council
TOPIC: Project Updates

Wellness Center

- Onsite Banner coordination is underway.
- Preparation for applying to the WCRF Grant is underway.

PCC Improvements

- Final Pay Application & Engineer's Closeout Letter to be sent to the City soon for review and approval.

Cherry Lane

- Change Order No. 1 has been submitted to the City for approval on the additional sidewalk panels.
- Pay Application No. 1 has been submitted to the City for approval/payment.
- Subdrain installation is completed.
- Demolition work for Cherry Street crosswalks will begin after subbase preparation is completed.

Hall Park Pickleball

- Change Order No. 1 has been submitted to the City for approval for Playground Demolition.
- Pay Application No. 1 has been submitted to the City for approval/payment.
- Pricing has been requested from Bowker on the following Change Orders:
    - Change Order No. 2 – Additional Grading/Restoration
    - Change Order No. 3 – Shelter Sidewalk
    - Change Order No. 4 – Tennis Courts Drainage
    - Change Order No. 5 – Glass Remediation
- All Tree Removals have been completed, and associated debris has been removed from the site.

CDBG Downtown Revitalization

- Progress Meeting No. 2 was held on July 9, 2025.
- All Building Owners Finish Selections will be completed the week of July 21, 2025.
- The Next Progress Meeting (No. 3) is set for August 8, 2025.

Riverside StoryMap (https://storymaps.arcgis.com/stories/e9bde3c8c1f9492c944415c28c145cb9

ENGINEER'S REPORT

PROJECT: 2024 PCC Improvements
DATE: July 24, 2025
TO: City Council
TOPIC: Project Closeout and Acceptance

Please consider this a recommendation from Axiom Consultant to close out the 2024 PCC Improvements project and approve the public improvements as constructed under the contract with Hardscape Solutions of Iowa.

All change orders have been executed and punchlist items have been completed. All final requests for payments from Hardscapes have been received and retainage suggested to be released. All warranties will be in place with Hardscape Solutions of Iowa and Axiom will coordinate with the City to set a calendar reminder for a warranty walk-through at the appropriate time per the contract.

Please see below a summary of the financials as it relates to the project, and note that all costs associated with the overruns were due to additional work beyond the contract documents as requested by City Council.

Original Contract Amount = $36,184.42
Final Contract Amount = $37,395.42
Difference = +$1,211.00 (3.34%)

A Final Pay Application (#2) to cover the retainage has been submitted and recommended for approval by Axiom. In addition, a Resolution drafted for approval by City Council to officially close out the project.

We thank you for your cooperation, patience, and coordination throughout this project. We hope the City Council, City staff, residents, and visitors find these improvements to be a benefit to the community.

APPLICATION AND CERTIFICATE FOR PAYMENT

AIA DOCUMENT G702 (Instructions on reverse side) Page __1__ of __2__ Pages

. (Owner) City of Riverside, Iowa

PROJECT: 2024 Riverside PCC Improvements
Riverside, IA

APPLICATION NO.: 2 FINAL
PERIOD TO: 7/11/2025

Distribution to:
OWNER
ARCHITECT
CONTRACTOR

FROM: (Contractor) Hardscape Solutions of Iowa
805 Vernon Valley Dr
Cedar Rapids, IA 52403

VIA: CM

ARCHITECT'S PROJECT NO.: Axiom Consultants 24-0020

Contract Date: 11/19/24

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for Payment, as shown below, in connection with the Contract.
Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM		$36,184.42
2. Net change by Change Orders		$1,211.00
3. CONTRACT SUM TO DATE (Line 1 +/- 2)		$37,395.42
4. TOTAL COMPLETED & STORED TO DATE (Column G on G703)		$37,395.42
5. RETAINAGE:		
5 (Column D + E on G703)	$0.00	
b. __5__ % of Stored Material (Column F on G703)	$0.00	
Total Retainage (Line 5a + 5b or Total of Column I of G703)		$0.00
6. TOTAL EARNED LESS RETAINAGE (Line 4 less Line 5 Total)		$37,395.42
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate)		$35,525.65
8. CURRENT PAYMENT DUE		$1,869.77
9. BALANCE TO FINISH, PLUS RETAINAGE (Line 3 less Line 6)		$0.00

CHANGE ORDER SUMMARY			
Change Orders approved in previous months by Owner		ADDITIONS	DEDUCTIONS
TOTAL		$0.00	
Approved this Month			
Number	Date Approved	$1,211.00	
TOTALS		$1,211.00	$0.00
Net change by Change Orders		$1,211.00	

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Hardscape Solutions of Iowa

By: _____ Date: 7/11/25

State Of Iowa
County Of Linn
Notary Public:
My Commission expires: 04/16/2027

NOTARIAL SEAL IOWA
LOGAN BOARDROW
Commission Number 831431
My Commission Expires 04/16/27

CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site and the data comprising this application, the Construction Manager and Architect certify to the Owner that to the best of their knowledge, informationand belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED $1,869.77

CONSTRUCTION MANAGER
By: _____ Date: _____

~~ARCHITECT~~: ENGINEER:
By: _____ Date: July 15, 2025

CONTINUATION SHEET

APPLICATION NUMBER: 2 FINAL

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing
Contractor's signed Certification is attached.
In tabulations below, amounts are stated to the nearest dollar.
Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION DATE: 7/11/2025
PERIOD TO: 7/11/2025
ARCHITECT'S PROJECT NO:

A	B	C	D	E	F	G		H	I
ITEM NO.	DESCRIPTION OF WORK	SCHEDULED VALUE	WORK COMPLETED		MATERIALS	TOTAL COMPLETED	% Complete	BALANCE TO FINISH	RETAINAGE
			FROM PREVIOUS APPLICATION (D+E)	THIS PERIOD	PRESENTLY STORED (NOT IN D OR E)	AND STORED TO DATE (D+E+F)	(G / C)		
1	5" PCC W/4" Subbase	$6,106.93	$6,106.93			$6,106.93	100.00%	$0.00	$0.00
2	6" PCC W/6" Subbase	$2,209.35	$2,209.35			$2,209.35	100.00%	$0.00	$0.00
3	Retaining Wall	$8,008.14	$8,008.14			$8,008.14	100.00%	$0.00	$0.00
4	Removal of 4" PCC	$3,860.00	$3,860.00			$3,860.00	100.00%	$0.00	$0.00
5	Modification of Wall	$1,500.00	$1,500.00			$1,500.00	100.00%	$0.00	$0.00
6	Mobilization	$3,500.00	$3,500.00			$3,500.00	100.00%	$0.00	$0.00
7	Erosion Control	$1,500.00	$1,500.00			$1,500.00	100.00%	$0.00	$0.00
8	Relocating Monument	$7,500.00	$7,500.00			$7,500.00	100.00%	$0.00	$0.00
9	Final Grading	$2,000.00	$2,000.00			$2,000.00	100.00%	$0.00	$0.00
	EXTRA WORK: Remove Cap, add block, put cap back on	$0.00	$0.00			$0.00	#DIV/0!	$0.00	$0.00
	Labor	$981.00	$981.00			$981.00	100.00%	$0.00	$0.00
	Block	$180.00	$180.00			$180.00	100.00%	$0.00	$0.00
	Rock	$50.00	$50.00			$50.00	100.00%	$0.00	$0.00
		$37,395.42	$37,395.42	$0.00	$0.00	$37,395.42	100%	$0.00	$0.00

RESOLUTION #2025-XX

PAY APPLICATION #2 TO HARDSCAPE SOLUTIONS OF IOWA FOR COMPLETION AND FINAL ACCEPTANCE OF PCC IMPROVEMENTS PROJECT

WHEREAS, the City of Riverside awarded a contract to Hardscape Solutions of Iowa for the PCC Improvement work in the amount of $36,184.42 at the Riverside City Council Meeting on November 18th, 2024; and

WHEREAS, the City of Riverside has been provided an authorized pay application and recommendation of approval by City Engineer, Axiom Consultants.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of Riverside, Iowa does hereby approve Pay Application #2, authorizes payment in the amount of $1,869.77 to Hardscape Solutions of Iowa, and approves the final acceptance of the PCC Improvements Project.

BE IT FURTHER RESOLVED, by the City Council of Riverside, Iowa, that the Mayor and City Administrator are hereby authorized and directed to execute said resolution.

It was moved by Councilperson _____, seconded by Councilperson _____ to approve the foregoing resolution.

Roll Call: Rogerson, Schneider, Mills, Sexton, Kiene

Ayes:

Nays:

Absents:

PASSED AND APPROVED by the Riverside City Council on this 28th day of July 2025.

Signed: _____ Date: _____

Allen Schneider, Mayor

Attest: _____ Date: _____

Stephanie Thomann, City Clerk

Date: 7/14/2025

Periodic Estimate No: 1

Project: Cherry Lane Extension, located at: Riverside, Iowa
Owner: City of Riverside
Engineer: Axiom Consultants, LLC .
Contractor: Jones Contracting Company

Period State Date:

Period End Date: 7/14/2025

DETAILED ESTIMATE

			Contract Amount			Change Orders		Previously Claimed		This Pay Application		Total Project	
Item No.	Item Description	Unit	Total No. Units	Unit Price	Total Cost	QTY Change	Cost Change	QTY	Amount	QTY	Amount	% Complete	Value Completed Work
1.00	Clearing and Grubbing	LS	1.00	$ 2,000.00	$ 2,000.00		$0.00		$ -	1	$ 2,000.00	100%	$ 2,000.00
2.00	Topsoil, On-Site	CY	484.00	$ 10.80	$ 5,227.20		$0.00		$ -	0.5	$ 5.40	0%	$ 5.40
3.00	Excavation, Class 10	CY	858.00	$ 14.70	$ 12,612.60		$0.00		$ -	0.5	$ 7.35	0%	$ 7.35
4.00	Subgrade Preparation	SY	2025.00	$ 0.75	$ 1,518.75		$0.00		$ -	0.75	$ 0.56	0%	$ 0.56
5.00	Compaction Testing	LS	1.00	$ 1,850.00	$ 1,850.00		$0.00		$ -	0.5	$ 925.00	50%	$ 925.00
6.00	Below Grade Excvation (Core Out & Replace With 3/4" Road Stone)	CY	200.00	$ 52.00	$ 10,400.00		$0.00		$ -	0	$ -	0%	$ -
7.00	4" Modified subbase	Ton	127.00	$ 25.80	$ 3,276.60	2	$51.60		$ -	97.30	$ 2,510.34	77%	$ 2,510.34
8.00	6" Modified Subbase	Ton	447.20	$ 24.85	$ 11,112.92		$0.00		$ -	0	$ -	0%	$ -
9.00	Storm Sewer, trenched, RCP 15"	LF	83.00	$ 47.65	$ 3,954.95		$0.00		$ -	83	$ 3,954.95	100%	$ 3,954.95
10.00	Storm Sewer, Trenched RCP, 18"	LF	40.00	$ 49.65	$ 1,986.00		$0.00		$ -	40.00	$ 1,986.00	100%	$ 1,986.00
11.00	Subdrain Perforated Plastic Pipe, 6"	LF	595.00	$ 8.10	$ 4,819.50		$0.00		$ -	240.00	$ 1,944.00	40%	$ 1,944.00
12.00	intake, SW-509	Each	2.00	$ 7,012.00	$ 14,024.00		$0.00		$ -	2	$ 14,024.00	100%	$ 14,024.00
13.00	Intake, SW-545	Each	1.00	$ 5,280.00	$ 5,280.00		$0.00		$ -	1	$ 5,280.00	100%	$ 5,280.00
14.00	Pavement, PCC, 7"	SY	1084.90	$ 63.30	$ 68,674.17		$0.00		$ -		$ -	0%	$ -
15.00	Curb and Gutter, 24" Wide, 7"	LF	383.30	$ 39.50	$ 15,140.35		$0.00		$ -		$ -	0%	$ -
16.00	PCC pavement Samples and Testing	LS	1.00	$ 2,000.00	$ 2,000.00		$0.00		$ -		$ -	0%	$ -
17.00	Sidewalk, PCC, 4"	SY	128.40	$ 46.00	$ 5,906.40	9.8	$450.80		$ -		$ -	0%	$ -
18.00	Sidewalk, PCC, 6"	SY	443.20	$ 61.00	$ 27,035.20		$0.00		$ -		$ -	0%	$ -
19.00	Detectable Warnings	SF	111.00	$ 35.00	$ 3,885.00		$0.00		$ -		$ -	0%	$ -
20.00	Pavement removal	SY	925.00	$ 8.35	$ 7,723.75		$0.00		$ -	0.95	$ 7.93	0%	$ 7.93
21.00	Sign Installation	LS	1.00	$ 4,063.00	$ 4,063.00		$0.00		$ -		$ -	0%	$ -
22.00	Traffic Sign Removal	LS	1.00	$ 500.00	$ 500.00		$0.00		$ -	0.9	$ 450.00	90%	$ 450.00
23.00	Painted Pavement Markings, Solvent/Waterborne	STA	13.20	$ 570.00	$ 7,524.00		$0.00		$ -		$ -	0%	$ -
24.00	Painted Symbols and Legends, Solvent/Waterborne	Each	2.00	$ 100.00	$ 200.00		$0.00		$ -		$ -	0%	$ -
25.00	Temporary Traffic Control	LS	1.00	$ 1,600.00	$ 1,600.00		$0.00		$ -	0.5	$ 800.00	50%	$ 800.00
26.00	Hydraulic Seeding, Seeding, Fertilizing, and Mulching Type 1	Acre	0.40	$ 8,000.00	$ 3,200.00		$0.00		$ -		$ -	0%	$ -
27.00	Temporary Seeding, Fertilizing, and Mulching-Type 4	Acre	0.40	$ 1,000.00	$ 400.00		$0.00		$ -		$ -	0%	$ -
28.00	Watering	Each	4.00	$ 400.00	$ 1,600.00		$0.00		$ -		$ -	0%	$ -
29.00	Filter Sock, 9"	LF	980.00	$ 1.50	$ 1,470.00		$0.00		$ -	90	$ 135.00	9%	$ 135.00
30.00	Filter Socks Removal	LF	980.00	$ 0.01	$ 9.80		$0.00		$ -		$ -	0%	$ -
31.00	Rip Rap, Class D	Ton	20.00	$ 61.60	$ 1,232.00		$0.00		$ -	0	$ -	0%	$ -
32.00	Silt Fence or silt Fence Ditch Check	LF	622.00	$ 1.75	$ 1,088.50		$0.00		$ -	574	$ 1,004.50	92%	$ 1,004.50
33.00	Silt Fence or Silt Fence Ditch Check, Removal of Sediment	LF	622.00	$ 0.25	$ 155.50		$0.00		$ -		$ -	0%	$ -
34.00	Silt Fence or Silt Fence Ditch Check, removal of Device	LF	622.00	$ 0.25	$ 155.50		$0.00		$ -		$ -	0%	$ -
35.00	Inlet Protection Device	Each	7.00	$ 150.00	$ 1,050.00		$0.00		$ -	7	$ 1,050.00	100%	$ 1,050.00
36.00	Inlet Protection Device Maintenance	Each	7.00	$ 40.00	$ 280.00		$0.00		$ -		$ -	0%	$ -
37.00	Mobilization	LS	1.00	$ 15,909.88	$ 15,909.88		$0.00		$ -	0.5	$ 7,954.94	50%	$ 7,954.94
38.00	Maintence of Postal Service	LS	1.00	$ 1,000.00	$ 1,000.00		$0.00		$ -		$ -	0%	$ -
39.00	Concrete Washout	LS	1.00	$ 500.00	$ 500.00		$0.00		$ -		$ -	0%	$ -
				Contract Total:	$ 250,365.57								$ 44,039.98

Change Orders:

					$ -		$0.00		$ -		$ -	#DIV/0!	$ -
					$ -		$0.00		$ -		$ -	#DIV/0!	$ -
					$ -		$0.00		$ -		$ -	#DIV/0!	$ -
					$ -		$0.00		$ -		$ -	#DIV/0!	$ -
					$ -		$0.00		$ -		$ -	#DIV/0!	$ -
					$ -		$0.00		$ -		$ -	#DIV/0!	$ -
				CO Total:	$0.00		$0.00		$ -		$ -		$ -
				Contract Total Including CO's:	$250,365.57								$ 44,039.98

18% total completed from original project sum
14% total completed from original project sum without mobilization item included

Total Completed to Date	$ 44,039.98
Amount Retained (3%)	$ 1,321.20
Amount after retainage	$ 42,718.78
Less Prev Pmts	
Amount Due this period	$ 42,718.78

a. When 5% of the original contract amount has been completed, 25% of the contract price for mobilization will be paid.
b. When 10% of the original contract amount has been completed, 50% of the contract price for mobilization will be paid.
c. When 50% of the original contract amount has been completed, 100% of the contract price for mobilization will be paid.

AMOUNT CERTIFIED: $ 42,718.78
ENGINEER:
By: Date: July 14, 2025

RESOLUTION #2025-XX

PAY APPLICATION #1 TO JONES CONTRACTING CORP FOR WORK COMPLETED ON CHERRY LANE STREET EXTENSION PROJECT

WHEREAS, the City of Riverside awarded a contract to Jones Contracting Corp. for the Cherry Lane Street Extension Project in the amount of $247,887.77 at the Riverside City Council Meeting on February 3rd, 2025; and

WHEREAS, the City of Riverside has been provided an authorized pay application and recommendation of approval by City Engineer, Axiom Consultants.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of Riverside, Iowa does hereby accept Pay Application #1 and authorizes payment in the amount of $42,718.78 to Jones Contracting Corp for work completed on the Cherry Lane Street Extension Project for the period through 7/14/2025.

BE IT FURTHER RESOLVED, by the City Council of Riverside, Iowa, that the Mayor and City Administrator are hereby authorized and directed to execute said resolution.

It was moved by Councilperson _____, seconded by Councilperson _____ to approve the foregoing resolution.

Roll Call: Rogerson, Schneider, Mills, Sexton, Kiene

Ayes:

Nays:

Absents:

PASSED AND APPROVED by the Riverside City Council on this 28th day of July 2025.

Signed: _____ Date: _____

Allen Schneider, Mayor

Attest: _____ Date: _____

Stephanie Thomann, City Clerk

CONTRACTOR PAY REQUEST

Project:	Contract No. 24-0132.01			Completed	$ 5,590.00	Contract Amt	$ 216,192.67
	City of Riverside Hall Park Pickleball Courts			Previous Pmt			
Engineer:	Axiom Consultants LLC			Total Est	$ 5,590.00	% Completed	
Contractor:	Bowker Pinnacle Mechanical LLC			Retain	$ 167.70		
Pay Request No.	1	**Date:**	14-Jul-2025	**NET PAYMENT**	$ 5,422.30	Paid to Date	

ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	TOTAL ITEM VALUE	QUANTITY COMPLETE	COMPLETED VALUE
1	CLEARING & GRUBBING	LS	1	$ 1,000.00	$ 1,000.00	1	$ 1,000.00
2	TOPSOIL, ON-SITE	CY	430	$ 25.00	$ 10,750.00		$ -
3	EXCAVATION, CLASS 10	CY	3056	$ 15.00	$ 45,840.00		$ -
4	SUBGRADE PREPARATION	SY	120.1	$ 5.00	$ 600.50		$ -
5	COMPACTION TESTING	LS	1	$ 2,000.00	$ 2,000.00		$ -
6	6" MODIFIED SUBBASE	TON	268.5	$ 30.00	$ 8,055.00		$ -
7	STORM SEWER, TRENCHED, PVC, 10"	LF	130	$ 66.65	$ 8,664.50		$ -
8	PIPE APRON, METAL, 10"	EACH	1	$ 300.00	$ 300.00		$ -
9	PIPE APRON GUARD, METAL, 10" DIA.	EACH	1	$ 350.00	$ 350.00		$ -
10	SUBDRAIN, PERFORATED PLASTIC PIPE, 6"	LF	222	$ 25.00	$ 5,550.00		$ -
11	SUBDRAIN CLEANOUT, 6"	EACH	2	$ 1,200.00	$ 2,400.00		$ -
12	SUBDRAIN CONNECTIONS	EACH	2	$ 200.00	$ 400.00		$ -
13	INTAKE, 10" NYLOPLAST DRAIN	EACH	1	$ 1,000.00	$ 1,000.00		$ -
14	PCC PAVEMENT SAMPLES & TESTING	LS	1	$ 2,800.00	$ 2,800.00		$ -
15	PAVEMENT, ASPHALT, 3.5" TYPE-B CL. 1 BASE COURSE	SY	711	$ 40.00	$ 28,440.00		$ -
16	PAVEMENT, ASPHALT, 1.5" TYPE-A SURFACE COURSE	SY	711	$ 22.00	$ 15,642.00		$ -
17	COLOR SURFACING	SY	711	$ 32.42	$ 23,050.62		$ -
18	SIDEWALK, PCC, 6"	SY	243.6	$ 73.00	$ 17,782.80		$ -
19	PAVEMENT REMOVAL	SY	0.9	$ 100.00	$ 90.00	0.9	$ 90.00
20	TEMPORARY TRAFFIC CONTROL	LS	1	$ 500.00	$ 500.00		$ -
21	HYDRAULIC SEEDING, SEEDING, FERTILIZING, & MULCHING - TYPE 1	ACRE	0.2	$ 8,000.00	$ 1,600.00		$ -
22	WATERING	EACH	1	$ 1,400.00	$ 1,400.00		$ -
23	FILTER SOCKS, 9"	LF	677	$ 4.00	$ 2,708.00		$ -
24	FILTER SOCKS, REMOVAL	LF	677	$ 0.25	$ 169.25		$ -
25	CHAIN LINK FENCE, COMMERCIAL, BLACK VINYL COATED, 8' HT	LF	306	$ 50.00	$ 15,300.00		$ -
26	CHAIN LINK FENCE, COMMERCIAL, BLACK VINYL COATED, 4' HT	LF	100	$ 54.00	$ 5,400.00		$ -

CONTRACTOR PAY REQUEST

Project:	Contract No. 24-0132.01			Completed	$ 5,590.00	Contract Amt	$ 216,192.67
	City of Riverside Hall Park Pickleball Courts			Previous Pmt			
Engineer:	Axiom Consultants LLC			Total Est	$ 5,590.00	% Completed	
Contractor:	Bowker Pinnacle Mechanical LLC			Retain	$ 167.70		
Pay Request No.	1	**Date:**	17-Oct-2023	**NET PAYMENT**	$ 5,422.30	Paid to Date	

ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	TOTAL ITEM VALUE	QUANTITY COMPLETE	COMPLETED VALUE
27	GATES, 8' HT X 4' W	EACH	2	$ 650.00	$ 1,300.00		$ -
28	DEMOLITION WORK	LS	1	$ 2,000.00	$ 2,000.00	1	$ 2,000.00
29	MOBILIZATION	LS	1	$ 5,000.00	$ 5,000.00	0.5	$ 2,500.00
30	CONCRETE WASHOUT	LS	1	$ 100.00	$ 100.00		$ -
30	PICKLEBALL NET ASSEMBLY	EACH	3	$ 2,000.00	$ 6,000.00		$ -
					$ -		$ -
					$ 216,192.67		**$ 5,590.00**

AMOUNT CERTIFIED: $ 5,422.30
ENGINEER:
By: _____ Date: July 14, 2025

RESOLUTION #2025-XX

PAY APPLICATION #1 TO BOWKER PINNACLE MECHANICAL FOR WORK COMPLETED ON HALL PARK PICKLEBALL COURTS PROJECT

WHEREAS, the City of Riverside awarded a contract to Bowker Pinnacle Mechanical for the Hall Park Pickleball Courts Project in the amount of $216,192.67 at the Riverside City Council Meeting on February 3rd, 2025; and

WHEREAS, the City of Riverside has been provided an authorized pay application and recommendation of approval by City Engineer, Axiom Consultants.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of Riverside, Iowa does hereby accept Pay Application #1 and authorizes payment in the amount of $5,422.30 to Bowker Pinnacle Mechanical for work completed on the Hall Park Pickleball Courts Project for the period through 7/14/2025.

BE IT FURTHER RESOLVED, by the City Council of Riverside, Iowa, that the Mayor and City Administrator are hereby authorized and directed to execute said resolution.

It was moved by Councilperson _____, seconded by Councilperson _____ to approve the foregoing resolution.

Roll Call: Rogerson, Schneider, Mills, Sexton, Kiene

Ayes:

Nays:

Absents:

PASSED AND APPROVED by the Riverside City Council on this 28th day of July 2025.

Signed: _____ Date: _____

Allen Schneider, Mayor

Attest: _____ Date: _____

Stephanie Thomann, City Clerk

MARTIN GARDNER ARCHITECTURE

FIELD REPORT

COPIES TO: ☒Owner ☐Architect ☐Consultant ☒Contractor ☐Field ☐Attendees ☐Other:

ARCHITECT'S PROJECT NO: 2300164
Construction Contract Date: February 25, 2025

Observation Date: 7/16/25
Observation Time: 4:00 pm
Owner: City of Riverside
Project Name: Downtown Façade Revitalization
Project Location: Riverside, Iowa

Cloud Conditions:	☐ Overcast	☒ Partly Sunny	☐ Partly Cloudy	☐ Sunny
Rain/Snow/Ice	☐ Overnight	☐ AM	☐ PM	☐ Now
Site Conditions:	☒ Dry	☐ Damp/Wet	☐ Muddy	☐ Standing Water
Temperature:	70 degrees			

Location: Building Site

ATTENDEES:
Jason Kentner, Cornerstone
Bethany Jordan, MGA
Colt, Mefford Masonry (partial)

1. WORK IN PROGRESS:
- Masonry – 41 W, 31 W, 21 W, 11 E South, 71 E.
- Stucco patching – 41 W side wall.
- Historic window restoration – 41 W and 71 E.
- Demolition of rear overhang and portion of masonry wall – 11 E North.
- Demolition of existing staircases – 71 E.

2. REASON FOR VISIT:
- Review new brick samples for 71 E.
- Review general construction progress.

3. ADDITIONAL OBSERVATIONS:
- Both existing exterior staircases have been removed on 71 E – it was my understanding that one would remain (longer) for 2nd floor access. Contractor to provide access for building owner to access 2nd floor if/when needed (via ladder or other agreed to means). Contractor to provide anticipated date when new stair access will be provided.

4. DELAYS DISCUSSED:
- None.

5. POTENTIAL CHANGE ORDERS DISCUSSED:
- 71 E – an existing transom window over door 71E-5 was uncovered – previously covered by staircase entry roof. New transom window will be required.

- 11 E North – discussion of whether existing foundation wall is extant under area where new masonry corner is to be installed (NE corner). Large pipe is also visible in this area where new north wall foundation will go.

6. CHANGES AND CLARIFICATIONS NOT REQUIRING CHANGE ORDERS:

- None.

7. ACTIONS REQUIRED BY ARCHITECT:

- Have 71 E owner review new brick sample options.

8. ACTIONS REQUIRED BY CONTRACTOR:

- Contractor to provide anticipated date for when new staircase access will be provided on 71 E.
- Mason to provide name of brick no longer produced (Marsales? something) and to check with King's Material if brick is being produced at another plant.
- Mason to find out if Watsontown Delaware Flashed comes in clear (not flashed) and smooth (not sanded).
- Contractor to submit RFI (if needed) once ground is cleared near NE corner of 11 E North and extent of existing foundation wall (or lack thereof) is confirmed.

The foregoing constitutes my understanding of matters as encountered on the site at the time of my visit. Should anyone receiving this report, wish clarification of the content of this report, they are requested to respond to me in writing within three days of receiving this report.

Sincerely,

Bethany Jordan, AIA, Architect
MARTIN GARDNER ARCHITECTURE, P.C.

BABA CLAIM COMPLIANCE CERTIFICATION FORM

CLIENT NAME: City of Riverside (hereinafter CLIENT)

PROJECT TITLE: Riverside Facade (hereinafter PROJECT)

CDBG PROJECT NUMBER: _____ CDBG CLAIM NO. _____

CONTRACTOR NAME: Cornerstone Commercial Contractors, Inc. (hereinafter CONTRACTOR)

PAY APPLICATION NO. 2 AMOUNT: 64476.20

CONTRACTOR CERTIFICATION

I Jason Kentner the project manager, superintendent, owner, or authorized representative of the CONTRACTOR which has been contracted by the CLIENT to complete the proposed PROJECT and for which we are now submitting Pay Application No. 2 in the amount of 64476.20 hereby certify that all the iron, steel, construction materials, and manufactured products brought onto the PROJECT site and used on the PROJECT are BABA Compliant as required by the Build America, Buy America Act (BABA) requirements under Title IX of the Infrastructure Investment and Jobs Act ("IIJA"), Pub. L. 177-5. I also certify that I have provided the GRANT ADMINISTRATOR with a full and complete list of BABA-eligible products to be used on this project and all the required BABA certifications for those items as provided by the manufacturer.

SIGNED: _____ DATE: 07-21-2025

PRINTED NAME: Jason Kentner TITLE: Owner

ARCHITECT OR ENGINEER CERTIFICATION

I Bethany Jordan the architect or engineer for the PROJECT hereby certify that I have reviewed the CONTRACTOR's Pay Application No. 2 and the materials used on this project and agree that the CONTRACTOR has utilized certified BABA compliant iron, steel, construction materials, and manufactured products for the work that is certified as complete as of this pay application.

SIGNED: _____ DATE: 7/23/25

PRINTED NAME: BETHANY JORDAN TITLE: ARCHITECT

This form is required by IEDA for each submission of a draw for reimbursement on the CDBG funded project.

PAYMENT APPLICATION

TO:	City of Riverside 60 Greene Street Riverside, IA 52327	PROJECT NAME AND LOCATION:	Riverside Façade façade rehabilitation 60 Greene Street Riverside, IA 52327	APPLICATION #	2
FROM:	Cornerstone Commercial Contractors, Inc. 401 7th St Corning, Iowa 50841	ARCHITECT:	Martin Gardner Architecture 700 11th St, Suite 200 Marion, IA 52302	PERIOD THRU:	07/08/2025
FOR:	façade rehabilitation			PROJECT #s:	Riverside Façade
				DATE OF CONTRACT:	02/25/2025

Distribution to:
- ☐ OWNER
- ☐ ARCHITECT
- ☐ CONTRACTOR
- ☐
- ☐

CONTRACTOR'S SUMMARY OF WORK

Application is made for payment as shown below.
Continuation Page is attached.

1.	**CONTRACT AMOUNT**		$1,023,000.00
2.	**SUM OF ALL CHANGE ORDERS**		($72,500.00)
3.	**CURRENT CONTRACT AMOUNT**	(Line 1 +/- 2)	$950,500.00
4.	**TOTAL COMPLETED AND STORED** (Column G on Continuation Page)		$161,266.72
5.	**RETAINAGE:**		
	a. 3.00% of Completed Work (Columns D + E on Continuation Page)	$4,838.00	
	b. 3.00% of Material Stored (Column F on Continuation Page)	$0.00	
	Total Retainage (Line 5a + 5b or Column I on Continuation Page)		$4,838.00
6.	**TOTAL COMPLETED AND STORED LESS RETAINAGE** (Line 4 minus Line 5 Total)		$156,428.72
7.	**LESS PREVIOUS PAYMENT APPLICATIONS**		$91,952.52
8.	**PAYMENT DUE**		**$64,476.20**
9.	**BALANCE TO COMPLETION** (Line 3 minus Line 6)	$794,071.28	

SUMMARY OF CHANGE ORDERS	ADDITIONS	DEDUCTIONS
Total changes approved in previous months	$0.00	($72,500.00)
Total approved this month	$0.00	$0.00
TOTALS	$0.00	($72,500.00)
NET CHANGES	($72,500.00)	

Contractor's signature below is his assurance to Owner, concerning the payment herein applied for, that: (1) the Work has been performed as required in the Contract Documents, (2) all sums previously paid to Contractor under the Contract have been used to pay Contractor's costs for labor, materials and other obligations under the Contract for Work previously paid for, and (3) Contractor is legally entitled to this payment.

CONTRACTOR: Cornerstone Commercial Contractors, Inc.

By: _____ Date: _____

State of: Iowa

County of: Adams

Jason Kentner — Digitally signed by Jason Kentner Date: 2025.07.21 16:39:09 -05'00'

Subscribed and sworn to before me this 21st day of July 2025

Notary Public: Jaime Johnston

My Commission Expires: 01-19-2028

ARCHITECT'S CERTIFICATION

Architect's signature below is his assurance to Owner, concerning the payment herein applied for, that: (1) Architect has inspected the Work represented by this Application, (2) such Work has been completed to the extent indicated in this Application, and the quality of workmanship and materials conforms with the Contract Documents, (3) this Application for Payment accurately states the amount of Work completed and payment due therefor, and (4) Architect knows of no reason why payment should not be made.

CERTIFIED AMOUNT..... $64,476.20

(If the certified amount is different from the payment due, you should attach an explanation. Initial all the figures that are changed to match the certified amount.)

ARCHITECT: Bethany Jordan, AIA

By: Bethany Jordan Date: 7/23/25

Neither this Application nor payment applied for herein is assignable or negotiable. Payment shall be made only to Contractor, and is without prejudice to any rights of Owner or Contractor under the Contract Documents or otherwise.

CONTINUATION PAGE

PROJECT: Riverside Façade
façade rehabilitation

APPLICATION #: 2
DATE OF APPLICATION: 07/08/2025
PERIOD THRU: 07/08/2025
PROJECT #s: Riverside Façade

Payment Application containing Contractor's signature is attached.

A	B	C	D	E	F	G		H	I
ITEM #	WORK DESCRIPTION	SCHEDULED AMOUNT	COMPLETED WORK		STORED MATERIALS (NOT IN D OR E)	TOTAL COMPLETED AND STORED (D + E + F)	% COMP. (G / C)	BALANCE TO COMPLETION (C-G)	RETAINAGE (If Variable)
			AMOUNT PREVIOUS PERIODS	AMOUNT THIS PERIOD					
1	41 West 1st St	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	
1a	Masonry	$4,100.00	$4,100.00	$0.00	$0.00	$4,100.00	100%	$0.00	
1b	Carpentry	$10,500.00	$525.00	$0.00	$0.00	$525.00	5%	$9,975.00	
1c	Stain glass repair	$12,500.00	$0.00	$625.00	$0.00	$625.00	5%	$11,875.00	
1d	Door rehab	$6,950.00	$0.00	$0.00	$0.00	$0.00	0%	$6,950.00	
1e	Door-hardware	$3,347.00	$0.00	$0.00	$0.00	$0.00	0%	$3,347.00	
1f	Painting	$7,706.00	$0.00	$0.00	$0.00	$0.00	0%	$7,706.00	
1g	Windows	$4,727.00	$0.00	$0.00	$0.00	$0.00	0%	$4,727.00	
1h	Glass	$1,000.00	$0.00	$0.00	$0.00	$0.00	0%	$1,000.00	
1i	Signage	$2,750.00	$0.00	$0.00	$0.00	$0.00	0%	$2,750.00	
1j	Misc building materials	$857.00	$0.00	$0.00	$0.00	$0.00	0%	$857.00	
1k	Contingency allowance	$10,000.00	$0.00	$0.00	$0.00	$0.00	0%	$10,000.00	
1l	Allowance #1 wood cornice	$1,500.00	$0.00	$0.00	$0.00	$0.00	0%	$1,500.00	
1m	Allowance #2 metal cornice	$4,500.00	$0.00	$0.00	$0.00	$0.00	0%	$4,500.00	
1n	Performance Bond	$3,000.00	$3,000.00	$0.00	$0.00	$3,000.00	100%	$0.00	
1o	Genercal conditions, overhead	$28,094.00	$2,247.52	$561.88	$0.00	$2,809.40	10%	$25,284.60	
2	31 West 1st St	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	
2a	Masonry	$3,750.00	$3,750.00	$0.00	$0.00	$3,750.00	100%	$0.00	
2b	Carpentry	$12,500.00	$625.00	$0.00	$0.00	$625.00	5%	$11,875.00	
2c	Windows	$5,713.00	$0.00	$0.00	$0.00	$0.00	0%	$5,713.00	
2d	Aluminum storefront	$14,600.00	$0.00	$0.00	$0.00	$0.00	0%	$14,600.00	
2e	Door-hardware	$8,142.00	$0.00	$0.00	$0.00	$0.00	0%	$8,142.00	
2f	Painting	$4,171.00	$0.00	$0.00	$0.00	$0.00	0%	$4,171.00	
2g	Electrical	$2,431.00	$0.00	$0.00	$0.00	$0.00	0%	$2,431.00	
2h	Misc building materials	$2,357.00	$0.00	$0.00	$0.00	$0.00	0%	$2,357.00	
2i	Contingency allowance	$7,200.00	$0.00	$0.00	$0.00	$0.00	0%	$7,200.00	
2j	Performance bond	$3,000.00	$3,000.00	$0.00	$0.00	$3,000.00	100%	$0.00	
2k	General conditions, overhead and	$13,629.00	$1,362.90	$0.00	$0.00	$1,362.90	10%	$12,266.10	
3	21 W 1st St	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	
	SUB-TOTALS	$179,024.00	$18,610.42	$1,186.88	$0.00	$19,797.30	11%	$159,226.70	

CONTINUATION PAGE

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façade rehabilitation

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			AMOUNT PREVIOUS PERIODS	AMOUNT THIS PERIOD					
3a	Masonry	$12,300.00	$12,300.00	$0.00	$0.00	$12,300.00	100%	$0.00	
3b	Carpentry	$8,500.00	$425.00	$0.00	$0.00	$425.00	5%	$8,075.00	
3c	Aluminum storefront	$24,400.00	$0.00	$0.00	$0.00	$0.00	0%	$24,400.00	
3d	Windows	$5,713.00	$0.00	$0.00	$0.00	$0.00	0%	$5,713.00	
3e	Solid surface sills	$1,500.00	$0.00	$0.00	$0.00	$0.00	0%	$1,500.00	
3f	Painting	$2,806.00	$0.00	$0.00	$0.00	$0.00	0%	$2,806.00	
3g	Electrical	$1,000.00	$0.00	$0.00	$0.00	$0.00	0%	$1,000.00	
3h	Asbestos	$2,675.00	$0.00	$0.00	$0.00	$0.00	0%	$2,675.00	
3i	Misc building materials	$2,357.00	$0.00	$0.00	$0.00	$0.00	0%	$2,357.00	
3j	Contingency allowance	$4,000.00	$0.00	$0.00	$0.00	$0.00	0%	$4,000.00	
3k	Performance bond	$3,000.00	$3,000.00	$0.00	$0.00	$3,000.00	100%	$0.00	
3l	General conditions, overhead and	$7,994.00	$1,678.74	$0.00	$0.00	$1,678.74	21%	$6,315.26	
4	11 East South 1st St	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	
4a	Masonry	$38,050.00	$34,245.00	$0.00	$0.00	$34,245.00	90%	$3,805.00	
4b	Carpentry	$30,750.00	$1,537.50	$0.00	$0.00	$1,537.50	5%	$29,212.50	
4c	Windows	$26,736.00	$0.00	$0.00	$0.00	$0.00	0%	$26,736.00	
4d	Roofing	$23,300.00	$0.00	$0.00	$0.00	$0.00	0%	$23,300.00	
4e	Doors-hardware	$5,233.00	$0.00	$0.00	$0.00	$0.00	0%	$5,233.00	
4f	Aluminum storefront	$19,600.00	$0.00	$0.00	$0.00	$0.00	0%	$19,600.00	
4g	Painting	$2,109.00	$0.00	$0.00	$0.00	$0.00	0%	$2,109.00	
4h	Signage	$2,250.00	$0.00	$0.00	$0.00	$0.00	0%	$2,250.00	
4i	Electrical	$1,500.00	$0.00	$0.00	$0.00	$0.00	0%	$1,500.00	
4j	Asbestos	$4,440.00	$0.00	$0.00	$0.00	$0.00	0%	$4,440.00	
4k	Misc building materials	$2,357.00	$0.00	$0.00	$0.00	$0.00	0%	$2,357.00	
4l	Contingency allowance	$19,000.00	$0.00	$0.00	$0.00	$0.00	0%	$19,000.00	
4m	Performance bond	$3,000.00	$3,000.00	$0.00	$0.00	$3,000.00	100%	$0.00	
4n	General conditions, overhead and	$42,691.00	$7,684.38	$0.00	$0.00	$7,684.38	18%	$35,006.62	
5	11 East North 1st St	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	
5a	Masonry	$23,400.00	$0.00	$7,020.00	$0.00	$7,020.00	30%	$16,380.00	
	SUB-TOTALS	$499,685.00	$82,481.04	$8,206.88	$0.00	$90,687.92	18%	$408,997.08	

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			AMOUNT PREVIOUS PERIODS	AMOUNT THIS PERIOD					
5b	Carpentry	$17,500.00	$875.00	$1,750.00	$0.00	$2,625.00	15%	$14,875.00	
5c	Concrete	$10,239.00	$0.00	$0.00	$0.00	$0.00	0%	$10,239.00	
5d	Roofing	$18,000.00	$0.00	$0.00	$0.00	$0.00	0%	$18,000.00	
5e	Windows	$13,050.00	$0.00	$0.00	$0.00	$0.00	0%	$13,050.00	
5f	Doors-hardware	$8,909.00	$0.00	$0.00	$0.00	$0.00	0%	$8,909.00	
5g	Painting	$6,056.00	$0.00	$0.00	$0.00	$0.00	0%	$6,056.00	
5h	Asbestos	$2,655.00	$0.00	$0.00	$0.00	$0.00	0%	$2,655.00	
5i	Misc building materials	$857.00	$0.00	$0.00	$0.00	$0.00	0%	$857.00	
5j	Contingency allowance	$15,000.00	$0.00	$0.00	$0.00	$0.00	0%	$15,000.00	
5k	Allowance #3 wood cornice	$3,500.00	$0.00	$0.00	$0.00	$0.00	0%	$3,500.00	
5l	Performance bond	$3,000.00	$3,000.00	$0.00	$0.00	$3,000.00	100%	$0.00	
5m	General conditions, overhead and	$54,744.00	$1,094.88	$4,379.52	$0.00	$5,474.40	10%	$49,269.60	
6	71 East 1st St	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	
6a	Masonry	$89,360.00	$0.00	$35,744.00	$0.00	$35,744.00	40%	$53,616.00	
6b	Concrete	$5,564.00	$0.00	$0.00	$0.00	$0.00	0%	$5,564.00	
6c	Carpentry	$33,500.00	$1,675.00	$1,675.00	$0.00	$3,350.00	10%	$30,150.00	
6d	Window rehab	$6,071.00	$0.00	$910.65	$0.00	$910.65	15%	$5,160.35	
6e	Windows	$35,117.00	$0.00	$0.00	$0.00	$0.00	0%	$35,117.00	
6f	Storm windows	$13,000.00	$0.00	$0.00	$0.00	$0.00	0%	$13,000.00	
6g	Doors-hardware	$16,015.00	$0.00	$0.00	$0.00	$0.00	0%	$16,015.00	
6h	Wood deck	$18,500.00	$0.00	$0.00	$0.00	$0.00	0%	$18,500.00	
6i	Metal railing	$10,000.00	$0.00	$0.00	$0.00	$0.00	0%	$10,000.00	
6j	Painting	$7,197.00	$0.00	$0.00	$0.00	$0.00	0%	$7,197.00	
6k	Misc building materials	$1,857.00	$0.00	$0.00	$0.00	$0.00	0%	$1,857.00	
6l	Contingency allowance	$30,000.00	$0.00	$0.00	$0.00	$0.00	0%	$30,000.00	
6m	Performance bond	$3,000.00	$3,000.00	$0.00	$0.00	$3,000.00	100%	$0.00	
6n	General conditions, overhead and	$65,603.00	$1,312.06	$11,808.54	$0.00	$13,120.60	20%	$52,482.40	
6o	CO #1 COR #1 scope reduction	($72,500.00)	$0.00	$0.00	$0.00	$0.00	0%	($72,500.00)	
7	81 East 1st St	$0.00	$0.00	$0.00	$0.00	$0.00		$0.00	
	SUB-TOTALS	$915,479.00	$93,437.98	$64,474.59	$0.00	$157,912.57	17%	$757,566.43	

CONTINUATION PAGE

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			AMOUNT PREVIOUS PERIODS	AMOUNT THIS PERIOD					
7a	Masonry	$3,800.00	$0.00	$0.00	$0.00	$0.00	0%	$3,800.00	
7b	Carpentry	$4,500.00	$0.00	$0.00	$0.00	$0.00	0%	$4,500.00	
7c	Aluminum storefront	$14,000.00	$0.00	$0.00	$0.00	$0.00	0%	$14,000.00	
7d	Painting	$1,298.00	$0.00	$0.00	$0.00	$0.00	0%	$1,298.00	
7e	Window	$1,031.00	$0.00	$0.00	$0.00	$0.00	0%	$1,031.00	
7f	Misc building materials	$857.00	$0.00	$0.00	$0.00	$0.00	0%	$857.00	
7g	Contingency allowance	$2,600.00	$0.00	$0.00	$0.00	$0.00	0%	$2,600.00	
7h	Performance bond	$3,000.00	$3,000.00	$0.00	$0.00	$3,000.00	100%	$0.00	
7i	General conditions, overhead and	$3,935.00	$354.15	$0.00	$0.00	$354.15	9%	$3,580.85	
	TOTALS	$950,500.00	$96,792.13	$64,474.59	$0.00	$161,266.72	17%	$789,233.28	

RESOLUTION #2025-XX

PAY APPLICATION #2 TO CORNERSTONE COMMERCIAL CONTRACTORS, INC. FOR WORK COMPLETED ON THE CDBG DOWNTOWN REVITALIZATION PROJECT

WHEREAS, the City of Riverside awarded a contract to Cornerstone Commercial Contractors, Inc. for the revitalization of the Downtown District in the amount of $1,023,000.00 at the Riverside City Council Meeting on November 4th, 2024; and

WHEREAS, the City of Riverside has been provided an authorized pay application and recommendation of approval by the contracted engineering firm, Martin Gardner Architecture.

NOW, THEREFORE, BE IT RESOLVED, by the City Council of Riverside, Iowa does hereby accept Pay Application #2 and authorizes payment in the amount of $64,476.20 to Cornerstone Commercial Contractors, Inc. for work completed on the CDBG Downtown Revitalization Project for the period through July 8, 2025.

BE IT FURTHER RESOLVED, by the City Council of Riverside, Iowa, that the Mayor and City Administrator are hereby authorized and directed to execute said resolution.

It was moved by Councilperson _____, seconded by Councilperson _____ to approve the foregoing resolution.

Roll Call: Rogerson, Schneider, Mills, Sexton, Kiene

Ayes:

Nays:

Absents:

PASSED AND APPROVED by the Riverside City Council on this 28th day of July 2025.

Signed: _____ Date: _____

Allen Schneider, Mayor

Attest: _____ Date: _____

Stephanie Thomann, City Clerk

ORDINANCE NO. 2025-01

AN ORDINANCE AMENDING CHAPTER 55 "ANIMAL PROTECTION AND CONTROL" OF THE CODE OF ORDINANCES OF THE CITY OF RIVERSIDE, IOWA

SECTION I. PURPOSE. The purpose of this ordinance is to update the City's process for the handling of vicious dogs, illegal animals and dangerous animals to streamline the process and remove the direct involvement of the Washington County Sheriff's Office

SECTION II. SECTION REPEALED AND REPLACED. Section 55.19 is repealed and replaced in its entirety as follows.

CHAPTER 55 ANIMAL PROTECTION AND CONTROL

55.19 SEIZURE, IMPOUNDMENT AND DISPOSITION OF VICIOUS DOGS, ILLEGAL ANIMALS AND DANGEROUS ANIMALS.

1. The City Administrator, at his or her discretion or upon receipt of a complaint alleging that a particular animal is a vicious dog, illegal animal, or dangerous animal, as defined herein, may initiate proceedings to declare said animal an "offending animal." If after investigation the City Administrator determines the animal is an offending animal held in violation of this chapter the City Administrator shall order the person owning, sheltering, harboring, or keeping the animal to obtain a vicious dog permit and confine the animal as required by this chapter, or remove it from the City. The order shall be served on the owner by certified and regular U.S. mail. If the order is not complied with within five (5) days of its issuance, the City Administrator is authorized to seize and impound the animal. An animal so seized shall be impounded for a period of seven days. If at the end of the impoundment period, the person against whom the order of the City Administrator was issued has not appealed such order to the Council, or has not complied with the order, the City Administrator shall cause the animal to be humanely destroyed. Before being returned to the owner, an unaltered dog shall be surgically spayed or neutered, unless the dog has been duly registered for breeding purposes.

2. The order to obtain the required permit, or to confine or remove an offending animal from the City issued by the City Administrator may be appealed to the City Council. In order to appeal such order, written notice of appeal must be filed with the City Administrator within twelve (12) days after issuance of the order. Failure to file such written notice of appeal shall constitute a waiver of right to appeal the order to the City Administrator.

3. The notice of appeal shall state the grounds for such appeal and shall be delivered personally or by certified mail to the City Administrator. The hearing of such appeal shall be scheduled within 20 days of the receipt of notice of appeal. The hearing may be continued for good cause. After such hearing, the Council may affirm or reverse the order of the City Administrator. Such determination shall be contained in a written decision and shall be filed with the City Administrator within three (3) days after the hearing or any continued session thereof. The hearing shall be confined to the record made before the City Administrator and the arguments of the parties or their representatives, but no additional evidence shall be taken.

4. If the Council affirms the action of the City Administrator, the Council shall order in its written decision that the person sheltering, harboring, or keeping such offending animal shall obtain a vicious dog permit and confine said dog as required by this chapter or remove the offending animal from the City. The decision and order shall immediately be served upon the person against whom rendered in the same manner as the notice set out in subsection 1 of this section.

5. Failure to comply with an order of the City Administrator issued pursuant hereto and not appealed or of the Council after appeal, is a municipal infraction. Each day said failure to comply exists shall constitute a separate violation.

6. Any animal which is alleged to be an offending animal and which is under impoundment or quarantine at the animal shelter shall not be released to the owner, but shall continue to be held at the expense of the owner pending the outcome of the hearing. All costs of such impoundment or quarantine shall be paid by the owner if the dog is determined to be vicious or the animal is found to be an offending animal. If the dog is not determined to be vicious or the animal is found not to be offending, all costs shall be paid by the City except costs attributable to initial confinement prior to notice or costs of any required quarantine which shall nonetheless be paid by the owner.

SECTION III. SECTION AMENDED. Section 55.23 is amended as follows with underlined text indicating new text and struck through text indicating removal.

55.23 PERMANENT REMOVAL FROM CITY. Any animal required by any provision of this chapter to be removed, voluntarily or otherwise, from the City, shall be so removed by its owner or the person harboring or having control of such animal, and said owner or other person shall provide to the ~~County Sheriff~~ City Administrator a notarized statement designating the place to which the animal has been removed. An animal not removed as required or an animal which has been removed and which is again found illegally within the City shall be destroyed, and all costs associated therewith shall be at the owner's sole expense.

SECTION IV. REPEALER. All ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

SECTION V. SEVERABILITY. If any section, provision, or part of this ordinance shall be adjudged invalid or unconstitutional, such adjudication shall not affect the validity of this ordinance as a whole or any section, provision, or part thereof not adjudged invalid or unconstitutional.

SECTION VI. EFFECTIVE DATE. This ordinance shall be effective after its passage and publication as required by law.

PASSED AND APPROVED this ____ day of _____.

_____
Allen Schneider, Mayor

ATTEST:

_____
Stephanie Thomann, City Clerk

First Reading:
Second Reading:
Third Reading:
Final Approval Given:

I certify that the foregoing was published as Ordinance No. 2025-01 on _____, 2025.

_____
Stephanie Thomann, City Clerk

Deputy Clerk Position Profile

Position: Deputy Clerk

Description: The City of Riverside, Iowa, is accepting applications for a full-time Deputy Clerk. At-will position appointed by the City Council and reports directly to the City Administrator. The Deputy Clerk is responsible for supporting the administrative operations of the City.

Schedule: Generally, 32 to 40 hours per week, Monday through Friday. The Deputy Clerk may be required to work additional hours or to change hours with minimal notice because of operational needs. Attending meetings outside of business hours may be required on an occasional basis due to staff availability.

Rate of Pay: $20-24/hour, dependent on qualifications, with full range of benefits.

Skills & Qualifications:

Education/Training: High School Graduate or equivalent required.

Work Experience: Two (2) years of work experience in an office environment, or an equivalent combination of education, training, and experience that provides the knowledge, skills, and abilities necessary to perform the essential functions of this position.

Technology: Proficiency with Microsoft Office required. Applicants must be able to learn and be proficient with essential workflow applications such as Laserfiche and Tyler Technologies ERP Pro.

Driver's License Required: Possession of a valid Driver's License is required. Must be bondable.

Special Abilities: Must have good organizational skills, must be able to manage multiple workflow processes, and have strong communication skills to interact with staff, elected officials, and residents.

Physical Requirements: Must be able to lift objects weighing more than 40 pounds on an occasional basis and carry, push, or pull them up to 15 feet unassisted; must be able to stand, sit, listen, and watch for extended periods of time.

Mental Requirements: Must have the ability to prioritize, plan, and schedule a variety of activities in accordance with established deadlines; must be capable of

performing under moderately to highly stressful conditions created by the need to provide accurate solutions to problems and meet citizens' expectations under time deadlines. Must be able to embrace change as well as new processes and procedures.

Duties & Responsibilities:

- Handles routine correspondence and phone calls for the City.
- Order or purchase City supplies as needed.
- Processes daily mail and distribution.
- Maintain City social media, website, and public information channels.
- Schedule meetings and coordinate meeting logistics.
- Draft, edit, and format letters, reports, and memos as directed.
- Process customer payments.
- Maintaining accurate resident and vendor records.
- Assist with records management, data entry, and process development.
- Exercise professional decision-making in a manner that is in accordance with applicable laws and ethical best practices.
- Provide backup to the City Clerk as needed.

Works Closely with: This position works closely with the City Administrator and City Clerk in performing all aspects of their duties and those that may be assigned periodically. The Deputy Clerk will also work with the Mayor, City Council, staff members, associates, and members of the public.

Disclaimer: All duties and requirements in this job description have been determined by the employer to be essential job functions and are consistent with ADA requirements and are representative of the functions that are necessary to successful job performance. They may not, however, reflect the only duties performed. Employees in this job class will be expected to perform other job-related duties when it can be reasonably implied that such duties do not fundamentally change the basic requirements, purpose, or intent of the position.

Residency Requirement: Must reside within 20 miles of Riverside City limits or be willing to relocate.

Submit Application: Applications should be submitted via email to cityadmin@riversideiowa.gov. Application materials requested include: a cover letter, resume, salary history, and three (3) work-related references. Apply by August 30, 2025 by 11:59 PM. Late submittals will not be considered.

The City of Riverside, Iowa is an equal opportunity employer, M/F/Disability/Veteran.

Fee Schedule

Revised on XX-XX-2025 via Res #2025-XX

UTILITIES		
SOLID WASTE & RECYCLING FEES		
Monthly Service Fee - 35 gal	$18.03	per Contract
Monthly Service Fee - 65 gal	$20.09	per Contract
Garbage Sticker	$3.00	per Contract
Yard Waste Bag	$1.65	per Contract
WATER		
Base	$12.00	R.M.C. § 92.02
Rate ≤ 50,000 gal	$6.00 per thousand gal	R.M.C. § 92.02
Rate > 50,000 gal	$8.00 per thousand gal	R.M.C. § 92.02
Rate Modifier Outside of City Limits	150%	R.M.C. § 92.03
Connection Fee	See Ordinance	R.M.C. § 90.06
Tap Fee	See Ordinance	R.M.C. § 90.06
Hook-Up Fee	See Ordinance	R.M.C. § 90.06
Tenant Deposit	$100.00	R.M.C. § 92.09
Late Penalty	10% of the amount due	R.M.C. § 92.04
Disconnection Notice	$25.00	R.M.C. § 92.05
Reconnection Fee - Business Hours	$75.00	R.M.C. § 92.05
Reconnection Fee - Outside of Hours	$100.00	R.M.C. § 92.05
Returned Check/NSF	$30.00	R.M.C. § 92.10
SEWER		
Base	$12.00	R.M.C. § 99.02
Rate ≤ 50,000 gal	$6.00 per thousand gal	R.M.C. § 99.02
Rate > 50,000 gal	$8.00 per thousand gal	R.M.C. § 99.02
Resident Non-Water User Flat Fee	$40.00	R.M.C. § 99.02
Non-Resident Flat Fee	$60.00	R.M.C. § 95.06
Late Penalty	10% of the amount due	R.M.C. § 92.04
Disconnection Notice	$25.00	R.M.C. § 92.05
Reconnection Fee - Business Hours	$75.00	R.M.C. § 92.05
Reconnection Fee - Outside of Hours	$100.00	R.M.C. § 92.05
Returned Check/NSF	$30.00	R.M.C. § 99.10
STORM WATER		
Monthly Fee	$3.00	R.M.C. § 100.04
Late Penalty	10% of the amount due	R.M.C. § 92.04
Disconnection Notice	$25.00	R.M.C. § 92.05
Reconnection Fee - Business Hours	$75.00	R.M.C. § 92.05
Reconnection Fee - Outside of Hours	$100.00	R.M.C. § 92.05
Returned Check/NSF	$30.00	R.M.C. § 92.10

GENERAL GOVERNMENT		
FACILITY RENTALS		
Park	$25.00	
Riverboat Room	$50.00	
MISCELLANEOUS		
Copy of Records - B&W 8.5x11	$0.25 per page	Res #01202014-1
Copy of Records - B&W 8.5x14 or 11x17	$0.25 per page	Res #01202014-1
Copy of DVD	$5.00 per DVD	Res #01202014-1
Fax	$0.25 per page	Res #01202014-1
Scanning	$0.25 per page	Res #01202014-1
Extensive Records Search	$12.00 per hour plus copy charges	Res #01202014-1
Notarizing	$1.00 per page	Res #01202014-1
PUBLIC SAFETY		
NUISANCE		
Administrative Fee for Each Nuisance	$25.00	R.M.C. § 162.07
Corrective Abatement - Contracted	At Cost + 5% Administrative Fee	R.M.C. § 162.07 & Res #061807-1
Corrective Abatement - City	See below	R.M.C. § 162.07
Riding Mower	$30.00/hr + Labor	Res #061807-1
Weed Eater	$10.00/hr + Labor	Res #061807-1
Tractor & Mower	$50.00/hr + Labor	Res #061807-1
Dump Trailer	$20.00/hr + Labor	Res #061807-1
Flat Bed Trailer	$20.00/hr + Labor	Res #061807-1
Truck	$50.00/hr + Labor	Res #061807-1
Back Hoe / Loader	$75.00/hr + Labor	Res #061807-1
Labor (1 hour minimum, billed at 1/2 hour increments)	$30.00/hr/person	Res #061807-1
Habitual Lawn Violation - 24-month Contract for Weekly Mowing	Contract + $250.00	R.M.C. § 162.10
TRAFFIC & PARKING		
Parking Violation - Paid within 30 days	$15.00	R.M.C. § 70.03
Parking Violation - Handicap	$100.00	R.M.C. § 70.03
Parking Violation - Late Fee	$5.00	R.M.C. § 70.03
Towing & Impound	Cost	R.M.C. § 70.06
GENERAL PERMITS		
Peddler, Soliciter, Transient Merchant Permit	$15 or $25 per season?	Res #
Sale of Consumer Fireworks Permit	$35?	Res #
Display Fireworks Permit	$35.00	Res #122120-01
Alcohol Permit	See Iowa Code	I.A.C. § 123
Cigarette, Tobacco, & Vapor Permit	See Iowa Code	I.A.C. § 453A.13 & 453A.47A
House Mover Permit (per structure)	$500.00	R.M.C. § 123.06
Urban Livestock Permit		
Vicious Dog Permit	$100.00	R.M.C. § 55.16

BUILDING PERMITS, VARIANCES, ZONING, ETC.		
Application Fee (All building permits)	$35.00	
New Residential	See below	
Valuation: $100,000 or less	$250.00	
Valuation: $100,001 to $150,000	$500.00	
Valuation: $150,001 to $200,000	$750.00	
Valuation: $200,001 to $300,000	$1,000.00	
Valuation: $300,001 to $500,000	$1,250.00	
Valuation: $500,001 and above	$1,500.00	
Addition to Home	$0.50 per each additional sq. ft.	
New Commercial or Industrial	See below	
Valuation: $100,000 or less	$500.00	
Valuation: $100,001 to $150,000	$750.00	
Valuation: $150,001 to $200,000	$1,000.00	
Valuation: $200,001 to $300,000	$1,250.00	
Valuation: $300,001 to $500,000	$1,500.00	
Valuation: $500,001 and above	$1,750.00	
Addition to Commercial or Industrial	$0.50 per each additional sq. ft.	
New Detached Garage	$250.00	
Addition to Garage	$0.25 per each additional sq. ft.	
New Outbuilding		
Addition to Outbuilding		
New Deck / Porch		
Addition to Deck / Porch		
New Fence		
Addition to Fence		
New Retaining Wall		
Addition to Retaining Wall		
Finish / Remodel Basement	$50.00	
New Property Access		
Addition to Property Access		
Pool		
Sign		
Demolition of Principle Permitted Use	$75.00	
Three (3) Month Permit Extension		
Residential Electric	$15.00	Res #2022-112
Solar PV Array	$165.00	Res #2022-112
Minor Subdivision	$750.00	
Major Subdivision (3 or more lots)	See below	
Preliminary Plat	$1,250.00	
Final Plat	$1,000.00	
Change of Zoning Request	$250.00	
Special Exception Request	$250.00	
Variance Request	$100.00	
Appeal to Board of Adjustment	$100.00	
Special Meeting of the Planning & Zoning Commission	$250.00	
Special Meeting of the City Council	$375.00	

STAFF USE ONLY
Date Received:
Received by:
Permit #:
Paid: $35 Yes / No

BUILDING PERMIT APPLICATION

Job Site Address _____**Lot # & Subdivision**_____

Applicant _____ Address _____

Phone _____ Email _____City/St/Zip _____

Owner _____ Address _____

Phone _____ Email _____City/St/Zip _____

General Contractor _____Address _____

Contractor License Number _____

Phone _____ Email _____City/St/Zip _____

Subcontractors

Plumber _____ Phone _____ Email _____

Contractor License Number _____

Mechanical _____ Phone _____ Email _____

Contractor License Number _____

Electrician _____ Phone _____ Email _____

Contractor License Number _____

Sewer/Water Contractor _____ Phone _____ Email _____

Well on Site Is there a well on the premises? _____ Yes _____ No

Is the well capped? _____ Yes _____ No

Will it be used for drinking water? _____ Yes _____ No

Type of Construction (check one box) ❑ New ❑ Accessory Building ❑ Addition ❑ Remodel / Replace

Project Description (include dimensions) _____

_____

Building Project Estimated Valuation: $ _____ (Building Official will set valuation for permit fee)

Verification of Application

I declare that the information provided in this application is true, correct, and complete to the best of my knowledge.

NAME (print) _____

SIGNATURE: _____ DATE: _____

Zoning Information:
Occupancy Classification and Use: _____

Setback… Front: _____ Sides _____ Rear _____ Is site on a corner lot? ☐ Yes ☐ No

Structure Height: _____ # of Story/ies _____ Lot Area _____ Lot Dimension: _____

Proposed Off Street Parking Spaces: _____

Application Approval Information

Approved: Upon examination, we find that this application follows the building and zoning regulations of the City of Kalona, Iowa.

SIGNED: _____ DATE: _____

Zoning Administrator

SIGNED: _____ DATE: _____

Building Official

Not Approved: Upon examination, we find that this application is not in compliance with the building and zoning regulation of the City of Kalona, Iowa.

SIGNED: _____ DATE: _____

Zoning Administrator

SIGNED: _____ DATE: _____

Building Official

Compliance deficiency as noted: _____

Valuation basis for permit fee shall be determined by the building official.
The building official may reference valuation data as published annually by the International Code Council. For the year 2019, single-family dwelling of typical non-rated design will be based on total **square foot floor area as follows**:

Finished area (includes heated sun porches, etc.)	$94.00 per square foot
Unfinished area (no non-bearing walls or wallboard)	$25.00 per square foot
Finishing previously unfinished areas	$69.00 per square foot
Garage area	$35.00 per square foot
Open deck area (no roof)	$15.00 per square foot
Open carport or screened porch area (with roof)	$25.00 per square foot
Enclosed porch area	$25.00 per square foot

Drawings should have unfinished areas marked, finishing unfinished areas will require a separate permit.

CONSTRUCTION COST	BUILDING PERMIT FEE
$1.00 - $2,000.00	$35.00
$2,001.00 - $25,000.00	$35.00 for the first $2000 plus $10.50 for each additional $1,000 or fraction thereof, to and including $25,000
$25,000.01 - $50,000.00	$276.50 for the first $25,000 plus $7.75 for each additional $1,000 or fraction thereof, to and including $50,000
$50,000.01 - $100,000.00	$465.75 for the first $50,000 plus $5.25 for each additional $1,000 or fraction thereof, to and including $100,000
$100,000.01 - $500,000.00	$728.25 for the first $100,000 plus $4.20 for each additional $1,000 or fraction thereof, to and including $500,000
$500,000.01 - $1,000,000.00	$2408.25 for the first $500,000 plus $3.56 for each additional $1,000 or fraction thereof, to and including $1,000,000
$1,000,000.01 and up	$4,188.25 for the first $1,000,000 plus $2.74 for each additional $1,000 or fraction thereof

Other Inspections and Fees

1. Inspections outside of normal business hours – in addition to normal fee	$35.00 per hour
2. Re-inspection fees accessed under provisions of Section 108	$35.00 per hour
3. Inspections for which no fee is specifically indicated	$35.00 per hour
4. Additional plan review required by changes, additions or revisions to plans (minimum charge = one half hour)	$35.00 per hour
5. Use of outside consultants for plan checking and inspections for both (minimum charge = one half hour)	Actual Costs *

*Actual costs include administrative and overhead costs

Water Meter Fee	$275.00 per living unit
Water Tap On Fee	$100.00
Multiple Unit Fee	$100.00 + $40.00 per living unit
Sewer Tap On Fee	$100.00
Lagoon Fee	$150.00

AL101.1 Permit fee schedule.

Permit fees shall be in accordance with Table AL101.1.

TABLE AL101.1PERMIT FEE SCHEDULE

TOTAL VALUATION	FEE
$1 to $500	$24
$501 to $2,000	$24 for the first $500; plus $3 for each additional $100 or fraction thereof, up to and including $2,000
$2,001 to $40,000	$69 for the first $2,000; plus $11 for each additional $1,000 or fraction thereof, up to and including $40,000
$40,001 to $100,000	$487 for the first $40,000; plus $9 for each additional $1,000 or fraction thereof, up to and including $100,000
$100,000 to $500,000	$1,027 for the first $100,000; plus $7 for each additional $1,000 or fraction thereof, up to and including $500,000
$500,001 to $1,000,000	$3,827 for the first $500,000; plus $5 for each additional $1,000 or fraction thereof, up to and including $1,000,000
$1,000,001 to $5,000,000	$6,327 for the first $1,000,000; plus $3 for each additional $1,000 or fraction thereof, up to and including $5,000,000
$5,000,001 and over	$18,327 for the first $5,000,000; plus $1 for each additional $1,000 or fraction thereof

Date July 7, 2025

REQUEST FOR PROPOSALS (RFP)
RFP NUMBER 2025-01

The City of Riverside will receive proposals for audit services relating to the audit for the fiscal year ending June 30, 2025. Attached is information relating to minimum specifications of services, data to be included in the proposal, evaluation criteria, and selected information relating to the entity to be audited.

Sealed proposals (seven copies) will be accepted until 4:30 p.m., August 29, 2025, at City Hall in Riverside, Iowa. If mailed, the proposals should be mailed to:

City of Riverside
Attn: Cole Smith
PO Box 188
Riverside, Iowa 52327

Those submitting sealed proposals should indicate on the outside of the envelope in the lower left-hand corner that it is a sealed proposal for the RFP number indicated above and the name of the firm submitting the proposal.

The contract for services will be awarded by September 15, 2025.

Further information may be obtained from City Administrator Cole Smith (319) 648-3501 or by emailing cityadmin@riversideiowa.gov.

I. SPECIFIC REQUIREMENTS

1. The City of Riverside reserves the right to reject any and all proposals received.
2. Only proposals received at the location described and in the time frame given will be considered.
3. The original and one copy of the enclosed contract should be completed and manually signed by a partner of the firm submitting the proposal.
4. The audit shall be performed in accordance with the following:

   U.S. generally accepted auditing standards.

   The standards for financial audits contained in Government Auditing Standards, issued by the Comptroller General of the United States.

   The Single Audit Act Amendments of 1996 and Title 2 Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), when applicable.

5. The fees quoted in your proposal and included in the contract will be the maximum paid per hour and in total, unless an amendment to the contract is completed by both parties.
6. The audit report should conform to:

   Reporting formats specified by the Auditor of State's (AOS) office.

   AICPA Audit Guides.

   Governmental Accounting Standards Board reporting requirements.

   The requirements of the Single Audit Act Amendments of 1996 Title 2 Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance), when applicable.

7. The audit report should include a management letter, if appropriate, which includes recommendations related to the financial statements, internal control, accounting systems, and compliance issues.
8. An electronic (PDF) copy of the report shall be provided to the Mayor, City Administrator, and City Clerk.
9. An electronic (PDF) of the report, including the management letter, a detailed per diem audit bill, and a copy of the news release shall be submitted to the Auditor of State at SubmitReports@aos.iowa.gov upon release of the reports to the entity.

II. DATA TO BE INCLUDED IN PROPOSAL

In order to simplify the review process and to obtain the maximum degree of comparability, the proposal should include the following items and be organized in the manner specified below.

A. Letter of Transmittal

A letter of transmittal briefly outlining the proposer's understanding of the work and general information regarding the firm and individuals to be involved is permitted, but not required, if it is limited to not more than two pages. If a transmittal letter is presented, it should clearly set forth the local address of the office of the firm which will perform the work, the telephone number and the name of the contact person.

B. Table of Contents

Include a table of contents which identifies the material by section, page number and a reference to the following information to be contained in the proposal. If a transmittal letter is not submitted, please include in the table of contents the local address of the office which will perform the work, the telephone number and the name of the contact person.

C. Profile of Firm Proposing

1. State whether the firm is a local, national or international firm and a brief description of the size of the firm.
2. State whether the firm is in compliance with the registration requirements to engage in the practice of public accounting within Iowa.
3. State whether the firm is independent of the entity to be audited in accordance with Government Auditing Standards.
4. Describe the local office which will perform the audit, including:
    a. Location of the office.
    b. Current size of the office.
    c. Size of professional staff by level, such as partner, manager, supervisor, senior and other professional staff.
    d. Number of CPA's in the office.
5. Submit any other information required to describe the office which will perform the work.

D. Qualifications

1. Describe the recent local office auditing experience in similar types of audits to which the proposal relates. If appropriate, include regional experience in auditing similar types of entities. If desired, it is permissible to include your five largest clients which are not governmental clients.

II. DATA TO BE INCLUDED IN PROPOSAL
(Continued)

D. Qualifications (continued)

2. Include resumes of all key professional members who will be assigned to the audit. Resumes should be included for all members of the audit team from the audit partner through at least the on-site in-charge auditor. The resumes should include:
    a. The amount of experience the individual has had in the auditing profession.
    b. A summary of similar audits on which the individual has worked.
    c. A summary of the continuing professional education the individual has had in governmental accounting and auditing during the last two years.
    d. A statement as to whether the individual is independent of the entity, as defined by Government Auditing Standards.
3. Describe the firm's policy on notification of changes in key personnel.
4. Provide a listing of or the number of professionals in the office who are experienced in governmental auditing.
5. Describe the availability of individuals within the firm who are primarily involved in governmental auditing and reporting and with whom the audit team may consult.
6. Describe briefly the firm's system of quality control to ensure the audit is adequately performed.

E. Scope of Services and Proposed Schedule

Briefly describe your understanding of the scope of services to be provided. Indicate a proposed time schedule for completing the work, assuming the contract is issued on the date given in the cover letter. Include the approximate dates you would perform fieldwork, office review, and report preparation and the latest delivery date of the final report.

F. Fees and Compensation

Provide the following information:

1. Estimated total hours.
2. Estimated out-of-pocket expenses.
3. Hourly rate by staff classification.
4. All-inclusive maximum fee and out-of-pocket expenses, which will not be exceeded.
5. Frequency and timing of your billing process.

III. EVALUATION CRITERIA

The proposal will be evaluated based upon the following two areas. Therefore, it is important the proposal is responsive to the data requested.

1. Cost

   Overall cost, including out-of-pocket expenses, for performance of the audit.

2. Qualifications

   a. Organizational structure and size of the firm.

   b. Organizational structure and size of the office which will perform the audit.

   c. Recent experience in similar audits.

   d. Qualifications of the audit team.

   e. Individuals with whom the audit team can consult.

   f. Level of effort, understanding of work and timetable to complete the audit.

IV. ENTITY PROFILE

Suggested information to include:

(1) Administrative Information:

- Riverside's population is 1,060 and is located in Washington County. The City of Riverside operations include: streets & parks, water & sanitary sewer, and fire.
- Period to be audited: FY 2025, the period ending June 30, 2025
- Schedule of government funds by project or grant to be audited;
- Description and magnitude of the entity's accounting records;
- City uses Tyler Technologies' InCode 9 software
- Total actual revenues for fiscal year:
  - 2019: $6,218,505
  - 2020: $8,462,551
  - 2021: $4,810,497
  - 2022: $6,172,452
  - 2023: $7,427,946
  - 2024: $6,638,810
- The City has no outstanding debts
- One tax increment financing agreement
- Most current audit: FY 2024
- Availability of prior audit reports and working papers.

(2) Work and Reporting Requirements:

- The City Clerk is available Monday – Friday from 8:00am to 4:30pm and will provide available information as requested
- The City will provide a dedicated workspace for on-site work to be performed
- The City has copies of all prior exams and audits
- Provide twelve (12) copies of the final examination report
- The chosen firm is expected to perform a pre-audit and post-audit conference with the Mayor, City Administrator, and City Clerk
- Specific audit guides or programs to be followed; and
- Minimum audit requirements under applicable laws, such as Uniform Guidance, including the amendments thereto.

(3) Time Requirements:

- The contract will be awarded on September 15, 2025 at the City Council meeting
- Records will be ready and available for audit by October 15, 2025.
- Dates for completing interim phases, such as fieldwork completion and draft report preparation;
- The final report is due December 15, 2025

AGREEMENT BETWEEN

_____

AND

_____

_____

THIS AGREEMENT made and entered into this _____day of _____, 20__, by and between _____, hereinafter called _____ and _____, hereinafter called "CPA."

WHEREAS, the _____ wishes to obtain the services of the CPA to perform an audit in accordance with Section 11.6 of the Code of Iowa for the _____year(s) ending June 30, 20___; and

WHEREAS, the CPA is equipped and staffed to perform the above audit; and

WHEREAS, this agreement is in the public interest in fulfilling the requirements of Chapter 11 of the Code of Iowa.

NOW, THEREFORE, BE IT UNDERSTOOD AND AGREED:

1. The CPA will:

   A. Provide auditors of various classifications and for the estimated hours as detailed in 2.A of this agreement.

   B. Begin work on the audit as specifically agreed upon with the _____.

   C. Perform all work in accordance with U.S. generally accepted auditing standards, Government Auditing Standards and applicable federal requirements.

   D. Immediately inform the _____, the Auditor of State and the County Attorney if the audit discloses any significant irregularity in the collection or disbursement of public funds.

   E. Provide access to the working papers to any appropriate federal agencies for the period of time specified in relevant agreements entered into by the _____.

   F. Provide access to the working papers to the Auditor of State in accordance with Chapter 11 of the Code of Iowa.

2. Conditions of Payment:

   A. It is understood the fees for the services set forth above shall be reimbursed at the following hourly rates:

Classification	Estimated Hours	Hourly Rate

   B. The CPA shall present an invoice for services in the following manner: _____ _____ _____.

   C. Payment shall be made within ___ days of receipt of invoice.

   D. The total reimbursement shall not be for more than $_____, except as specifically agreed by the _____ and the CPA.

3. Termination of Agreement:

   A. _____ may terminate this contract without notice if the CPA fails to perform the covenants or agreements contained herein.

   B. The CPA shall be paid for all work satisfactorily performed to the date of termination.

IT WITNESS THEREOF, _____ and CPA have executed this AGREEMENT as of the date indicated below:

CPA _____

By _____ By _____

Title _____ Title _____

Date _____ Date _____

EVALUATION CRITERIA AND TECHNIQUES
FOR RESPONSES TO REQUESTS FOR PROPOSALS

Evaluation of responses to a request for proposal is based upon a 100-point rating system. A maximum of 25 points is assigned to the cost of the bid proposal, and a maximum of 75 points is assigned to the qualifications of the bidding firm or individual. The techniques used to evaluate these two components are described below.

Criteria: **COST**

Evaluation Value: 25 points

Evaluation Technique: For each firm evaluated

$$\text{Cost Score} = \left[\frac{\text{Lowest cost of all bids received}}{\text{Bid cost for this firm}} \right] \times 25$$

Criteria: **QUALIFICATIONS**

Evaluation Value: 75 points

Evaluation Technique: Subjective scoring for the following factors:

Qualification Factor	Possible Points
1. Organizational structure and size of the entire firm (resources available – personnel and research, existence of areas of specialization, commitment to governmental auditing, etc.)	0-5
2. Organizational structure and size of the office which will perform the audit (resources available – personnel and research, existence of area of specialization, commitment to governmental auditing, etc.)	0-5
3. Recent experience in similar audits (involvement in local governmental audits – extensiveness, variety, length of time performing audits, etc.)	0-15
4. Qualifications of the audit team (level of experience as accountants, auditors, governmental auditors, variety of experience, % of time devoted to governmental audits, number of CPAs involved, training, etc.)	0-25
5. Individuals with whom the audit team can consult (level and variety of experience, number of CPAs, training, etc.)	0-5
6. Understanding of work and timetable to complete audit (number of hours, projected timetable, commentary showing understanding of the entity and general knowledge of what is required, etc.)	0-20
Total points - Qualifications	0-75

Each firm's total evaluation score is the sum of its cost score plus its qualification score. The maximum score is 100 points.

Request for Proposal (RFP)
Rescue Fire Engine

Issue Date: July 28, 2025
Proposal Due Date: September 10, 2025
Contact Information:
City of Riverside
Attn: Riverside Fire Department
P.O. Box 188
60 Greene Street
Riverside, IA 52327

Cole Smith, City Administrator
Phone: (319) 648-3501
Email: cityadmin@riversideiowa.gov

Chad Smothers, Fire Chief
Phone: (319) 631-4350
Email: chadsmothers.cs@gmail.com

Allen Schneider, Mayor
Email: mayor@riversideiowa.gov

I. Introduction

The City of Riverside is requesting proposals from qualified fire apparatus manufacturers or vendors for the design, manufacture, and delivery of a new *Rescue Fire Engine*. This vehicle will serve as a frontline engine for fire suppression, rescue, and emergency response within Riverside and mutual aid areas.

II. Project Overview and Objectives

The objective of this RFP is to obtain a fully equipped, NFPA 1901-compliant Rescue Engine that meets the operational, safety, and service requirements of the Riverside Fire Department. The proposal must include all costs associated with the build, delivery, testing, training, and warranty.

III. Proposal Submission Requirements

All proposals must include the following information:

1. **Company Profile**
    - Company name, address, and contact details.
    - Description of experience in manufacturing fire apparatus.

2. **Apparatus Specifications (See attached specification sheet in Appendix A)**
    - Chassis make/model/year
    - Engine and transmission specifications
    - Pump type, capacity (min. 1,500 GPM), and tank size (min. 750 gallons)
    - Rescue body layout with storage compartments
    - Lighting and electrical systems
    - Safety features and NFPA 1901 compliance
    - SCBA storage, ladder storage, and hose bed configuration
    - Onboard generator (if included) and rescue tool compatibility
3. **Customization and Options**
    - List of standard and optional features
    - Paint, striping, and department logo placement
4. **Warranty and Service**
    - Detailed warranty information on chassis, pump, and body
    - Post-delivery support, service, and training offerings
5. **Cost Proposal**
    - Itemized pricing
    - Delivery timeline
    - Discounts, financing or leasing options (if offered)
6. **References**
    - At least three (3) recent clients who have purchased similar units

IV. Evaluation Criteria

Proposals will be evaluated based on:

- Compliance with specifications
- Apparatus quality and performance
- Vendor qualifications and experience
- Warranty and service provisions
- Cost and overall value
- Delivery timeframe

The City will review all submitted proposals and evaluate each proposal independently in comparison to the specification. Each manufacturer must note whether they comply with each item on the attached specification in the designated YES/NO column. If the manufacturer does not comply with the specification an additional attachment is required with an explanation of each exception. All exceptions, no matter how minor, must be noted on each proposal. For each item that does not comply with the specification or is not listed and exception is not taken the City will assume it is included within the proposal, no matter the cost to the bidder.

V. Proposal Submission Instructions

All proposals must be sealed and clearly labeled:
"Proposal – Rescue Pumper Fire Engine – City of Riverside"

Submit to:
City of Riverside
P.O. Box 188
60 Greene Street
Riverside, IA 52327

Deadline: Proposals must be received and time stamped by the City Clerk by September 10, 2025 by 2pm CST. Late submissions will not be accepted.

VI. Additional Information

- The City of Riverside reserves the right to accept or reject any or all proposals.
- Any questions regarding this RFP must be submitted in writing via email to the contacts listed above no later than August 22, 2025.

VII. Anticipated Timeline

- **RFP Issued:** July 28, 2025
- **Deadline for Questions:** August 22, 2025
- **Proposal Due Date:** September 10, 2025
- **Review and Selection:** September 15, 2025

- **Notice of Award:** September 24, 2025
- **Contract Finalization:** October 20, 2025
- **Expected Delivery:** by January 1, 2027

SINGLE SOURCE MANUFACTURER

Bids shall only be accepted from a single source apparatus manufacturer. The definition of single source is a manufacturer that designs and manufactures their products using an integrated approach, including the chassis, cab weldment, cab, pumphouse (including the sheet metal enclosure, valve controls, piping and operators panel) and body being designed, fabricated and assembled on the bidder's premises. The electrical system (hardwire or multiplex) shall be both designed and integrated by the same apparatus manufacturer. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) must be from a single source manufacturer and not split between manufacturers (i.e. body, pumphouse, cab weldment and chassis). The bidder shall provide evidence that they comply with this requirement.

The bidder shall state the location of the factory where the apparatus is to be built.

NFPA 2024 STANDARDS

This unit shall comply with the NFPA standards effective January 1, 2024, except for fire department specifications that differ from NFPA specifications. These exceptions shall be set forth in the Statement of Exceptions.

Certification of slip resistance of all stepping, standing and walking surfaces shall be supplied with delivery of the apparatus.

All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points shall be identified on the customer approval print and are shown as approximate. Actual location(s) shall be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required. Access paths may require the operation of devices and equipment such as the aerial device or ladder rack.

A plate that is highly visible to the driver while seated shall be provided. This plate shall show the overall height, length, and gross vehicle weight rating.

The manufacturer shall have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company shall designate, in writing, who is qualified to witness and certify test results.

NFPA COMPLIANCY

Apparatus proposed by the bidder shall meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in the current edition at time of contract execution. Fire Department's specifications that differ from NFPA specifications shall be indicated in the proposal as "non-NFPA."

PUMP TEST

The rated water pump shall be tested, approved, and certified by an ISO certified independent third party testing agency at the manufacturer's expense. The test results, along with the pump manufacturer's certification of hydrostatic test, the engine manufacturer's certified brake horsepower curve, and the manufacturer's record of pump construction details shall be forwarded to the Fire Department.

BID BOND NOT REQUESTED

A bid bond shall not be included. If requested, the following shall apply:

All bidders shall provide a bid bond as security for the bid in the form of a 5 percent bid bond to accompany their bid. This bid bond shall be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond shall be issued by an authorized representative of the Surety Company and shall be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond shall include language, which assures that the bidder/principal shall give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle shall apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle shall not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision shall prevail.

PERFORMANCE BOND NOT REQUESTED

A performance bond shall not be included. If requested at a later date, one shall be provided to you for an additional cost and the following shall apply:

The successful bidder shall furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond shall be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required.

Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Bumper to Bumper warranty period included within this proposal. Owner agrees that the penal amount of this bond shall be simultaneously amended to 25 percent of the total contract amount upon satisfactory

acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type shall not exceed three (3) years from the date of such satisfactory acceptance and delivery, or the actual Bumper to Bumper warranty period, whichever is shorter.

Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates shall be made available, and a final firm delivery date shall be provided as soon as possible.

If the Producer Price Index of Components for Manufacturing [www.bls.gov Series ID: WPUID6112] ("PPI") has increased at a compounded annual growth rate of 5.0% or more between the month the truck manufacturer accepts the order ("Order Month") and a month 14 months prior to the then predicted Ready For Pickup date ("Evaluation Month"), then pricing may be updated in an amount equal to the increase in PPI over 5.0% for each year or fractional year between the Order Month and the Evaluation Month.
The seller shall document any such updated price for the customer's approval before proceeding and provide an option to cancel the order.

DELIVERY
The apparatus will be delivered no later than January 1st, 2027. No exception will be allowed.

ELECTRICAL WIRING DIAGRAMS
Two (2) electrical wiring diagrams, prepared for the model of chassis and body, shall be provided.

CHASSIS
Chassis provided shall be a new, tilt-type custom fire apparatus. The chassis shall be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis shall be designed and manufactured for heavy-duty service, with adequate strength and capacity for the intended load to be sustained and the type of service required.

WHEELBASE
The wheelbase of the vehicle shall be no greater than 204.00.

GVW RATING
The gross vehicle weight rating shall be a minimum of 47,000.

FRAME
The chassis frame shall be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus.

The side rails shall have a 13.38" tall web over the front and mid sections of the chassis, with a continuous smooth taper to 10.75" over the rear axle.

Each rail shall have a section modulus of 25.992 cubic inches and a resisting bending moment (rbm) of 3,119,040 in-lb over the critical regions of the frame assembly, with a section modulus of 18.96 cubic inches with an rbm of 2,275,200 in-lb over the rear axle.

The frame rails shall be constructed of 120,000 psi yield strength heat-treated 0.38" thick steel with 3.50" wide flanges.

FRONT NON DRIVE AXLE

The front axle shall be of the independent suspension design with a ground rating of 19,500 lb.

Upper and lower control arms shall be used on each side of the axle. Upper control arm castings shall be made of 100,000-psi yield strength 8630 steel and the lower control arm casting shall be made of 55,000-psi yield ductile iron.

The center cross members and side plates shall be constructed out of 80,000-psi yield strength steel.

Each control arm shall be mounted to the center section using elastomer bushings. These rubber bushings shall rotate on low friction plain bearings and be lubricated for life. Each bushing shall also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations.

There shall be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension.

The upper control arm shall be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load.

Camber at load shall be zero degrees for optimum tire life.

The ball joint bearing shall be of low friction design and be maintenance free.

Toe links that are adjustable for alignment of the wheel to the center of the chassis shall be provided.

The wheel ends must have little to no bump steer when the chassis encounters a hole or obstacle.

The steering linkage shall provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase.

The axle shall have a turning angle of up to 45 degrees.

FRONT SUSPENSION

An independent front suspension shall be provided with a minimum ground rating of 19,500 lb.

The independent suspension system shall be designed to provide maximum ride comfort. The design shall allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment.

Each wheel shall have a torsion bar type spring. In addition, each front wheel end shall also have energy absorbing jounce bumpers to prevent bottoming of the suspension.

The suspension design shall be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms.

The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side.

The independent suspension shall have been put through a durability test that simulated a minimum of 140,000 miles of inner city driving.

FRONT SHOCK ABSORBERS

KONI heavy-duty telescoping shock absorbers shall be provided on the front suspension.

FRONT OIL SEALS

Oil seals with viewing window shall be provided on the front axle.

FRONT TIRES

Front tires shall be Goodyear 385/65R22.5 radials, 18 ply Armor Max MSA tread, rated for 20,050 lb maximum axle load and 68 mph maximum speed.

The tires shall be mounted on Alcoa 22.50" x 12.25" polished aluminum disc type wheels with a ten (10) stud, 11.25" bolt circle.

REAR AXLE

The rear axle shall be a Dana, Model S26-190, with a capacity of 27,000 lb.

TOP SPEED OF VEHICLE

A rear axle ratio shall be furnished to allow the vehicle to reach a top speed of 68 mph / 109 kph.

REAR SUSPENSION

The rear suspension shall be Standens, semi-elliptical, 3.00" wide x 52.50" long, with a ground rating of 27,000 lb. The spring hangers shall be castings.

The two (2) top leaves shall wrap the forward spring hanger pin, and the rear of the spring shall be a slipper style end that shall ride in a rear slipper hanger.

A steel encased rubber bushing shall be used in the spring eye. The steel encased rubber bushing shall be maintenance free and require no lubrication.

REAR OIL SEALS
Oil seals shall be provided on the rear axle(s).

REAR TIRES
The rear tires shall be four (4) Goodyear Armor Max MSD, 12R22.50 radials, load range H, rated for 27,120 lb maximum axle load and 68 mph maximum speed.

The tires shall be mounted on Alcoa 22.50" x 9.00" polished aluminum disc wheels with a ten (10) stud, 11.25" bolt circle.

TIRE BALANCE
All tires shall be balanced with Counteract balancing beads. The beads shall be inserted into the tire and eliminate the need for wheel weights.

TIRE PRESSURE MANAGEMENT
There shall be a RealWheels LED AirSecure™ tire alert pressure management system provided, that shall monitor each tire's pressure. A sensor shall be provided on the valve stem of each tire for a total of six (6) tires.

The sensor shall calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor shall activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi.

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 to flash.

CHROME LUG NUT COVERS
Chrome lug nut covers shall be supplied on front and rear wheels.

HUB COVERS (FRONT)
Stainless steel hub covers shall be provided on the front axle.

REAR HUB COVERS
A pair of stainless steel high hat hub covers shall be provided on rear axle hubs.

MUD FLAPS
Mud flaps shall be installed behind the front and rear wheels of the apparatus.

WHEEL CHOCKS
There shall be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks with easy-grip handle provided.

Wheel Chock Brackets

There shall be one (1) pair of Zico, Model SQCH-44-H, horizontal mounting wheel chock brackets provided for the Ziamatic, Model SAC-44-E, folding wheel chocks. The brackets shall be made of aluminum and consist of a quick release spring loaded rod to hold the wheel chocks in place. The brackets shall be mounted below the left side rear compartment.

ELECTRONIC STABILITY CONTROL

A vehicle control system shall be provided as an integral part of the ABS brake system from Meritor Wabco.

The system shall monitor and update the lateral acceleration of the vehicle and compare it to a critical threshold where a side roll event may occur. If the critical threshold is met, the vehicle control system shall automatically reduce engine RPM, engage the engine retarder (if equipped), and selectively apply brakes to the individual wheel ends of the front and rear axles to reduce the possibility of a side roll event.

The system shall monitor directional stability through a lateral accelerometer, steer angle sensor and yaw rate sensor. If spinout or drift out is detected, the vehicle control system shall selectively apply brakes to the individual wheel ends of the front and rear axles to bring the vehicle back to its intended direction.

ANTI-LOCK BRAKE SYSTEM

The vehicle shall be equipped with a Wabco 4S4M, anti-lock braking system. The ABS shall provide a four (4) channel anti-lock braking control on both the front and rear wheels. A digitally controlled system that utilizes microprocessor technology shall control the anti-lock braking system. Each wheel shall be monitored by the system. When any wheel begins to lockup, a signal shall be sent to the control unit. This control unit shall then reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system shall eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.

AUTOMATIC TRACTION CONTROL

An anti-slip feature shall be included with the ABS. The Automatic Traction Control shall be used for traction in poor road and weather conditions. The Automatic Traction Control shall act as an electronic differential lock that shall not allow a driving wheel to spin, thereby supplying traction at all times. The ABS electronic control unit (ECU) shall work with the engine ECU, sharing information concerning wheel slip. Engine ECU shall use information to control engine speed, allowing only as much throttle application as required for the available traction, regardless of how much the driver is asking for. An "off road traction" switch shall be provided on the instrument panel. Activation of the switch shall allow additional tire slip to let the truck climb out and get on top of deep snow or mud.

BRAKES

The service brake system shall be full air type.

The front brakes shall be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance.

The brake system shall be certified, third party inspected, for improved stopping distance.

The rear brakes shall be Bendix™ 16.50" x 8.63" cam operated with automatic slack adjusters.

AIR COMPRESSOR, BRAKE SYSTEM

The air compressor shall be a Wabco single piston compressor with a 26.8 CI displacement.

BRAKE SYSTEM

The brake system shall include:

- Brake treadle valve
- Heated automatic moisture ejector on air dryer
- Total air system minimum capacity of 4,272 cubic inches
- Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi
- Spring set parking brake system
- Parking brake operated by a push-pull style control valve
- A parking "brake on" indicator light on instrument panel
- Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, with an automatic spring brake application at 40 psi
- A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa)
- 1/4 turn drain valves on each air tank

The air tank shall be primed and painted to meet a minimum 750 hour salt spray test.

The air tanks shall be painted same as frame color.

To reduce the effects of corrosion, the air tank shall be mounted with stainless steel brackets (no exception).

BRAKE SYSTEM AIR DRYER

The air dryer shall be WABCO System Saver 1200 with spin-on coalescing filter cartridge and 100 watt heater.

BRAKE LINES

Color-coded nylon brake lines shall be provided. The lines shall be wrapped in a heat protective loom where necessary in the chassis.

AIR COMPRESSOR, BRAKE SYSTEM MAINTENANCE

A Kussmaul, Model 091-9B-4 air compressor shall be provided. It shall be driven by the 120 volt shoreline electrical system and shall be located LS3 high on left wall..

The compressor shall maintain the air pressure in the chassis air brake system while the vehicle is not in use.

A pressure switch shall sense when the system pressure drops and automatically start the compressor, which then shall run until pressure is restored.

ENGINE

The chassis shall be powered by an electronically controlled engine as described below:

Make:	Paccar
Model:	MX13
Power:	510 hp at 1600rpm
Torque:	1850 lb-ft at 1000rpm
Governed Speed:	1900 rpm
Emissions Certification:	EPA 2024
Fuel:	Diesel
Cylinders:	Six (6)
Displacement:	12.9L
Starter:	DP60
Fuel Filters:	Dual cartridge style with check valve, water separator, and water in fuel sensor

The engine shall include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system shall give the owner or repair technician access to state of health information for various vehicle sub systems. The system shall monitor vehicle systems, engine and after treatment. The system shall illuminate a malfunction indicator light on the dash console if a problem is detected. Due to the validity with in the engine market, no exception will be allowed for a different engine option.

HIGH IDLE

A high idle switch shall be provided, inside the cab, on the instrument panel, that shall automatically maintain a preset engine rpm. A switch shall be installed, at the cab instrument panel, for activation/deactivation.

The high idle shall be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light shall be provided, adjacent to the switch. The light shall illuminate when the above conditions are met. The light shall be labeled "OK to Engage High Idle."

ENGINE BRAKE

The compression release brake option is a fully integrated MX engine braking system. It utilizes the turbocharger and back pressure valve, but adds in a hydraulically operated compression brake to increase overall retarding power.

To maximize the effectiveness of the compression brake the MX engine brake system works in conjunction with the turbocharger and back pressure valve.

The driver shall be able to turn the engine brake system on/off and have a high, medium and low setting.

CLUTCH FAN

A fan clutch shall be provided. The fan clutch shall be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.

ENGINE AIR INTAKE

The engine air intake shall be located above the engine cooling package. It shall draw fresh air from the front of the apparatus through the radiator grille.

The ember separator is designed to prevent road dirt and recirculating hot air from entering the engine.

The ember separator shall be easily accessible by tilting the cab.

EXHAUST SYSTEM

The exhaust system shall be stainless steel from the turbo to the engine's aftertreatment device. The exhaust system shall include an aftertreatment device to meet current EPA standards. An insulation wrap shall be provided on all exhaust pipe between the turbo and the aftertreatment device to minimize the transfer of heat to the cab.

The exhaust shall terminate horizontally ahead of the right side rear wheels and will be flush with the body rub rail. The exhaust pipes shall be aluminized steel.

There shall be an aluminized steel exhaust diffuser with a standard straight tip on the end provided to reduce the temperature of the exhaust as it exits. Heat deflector shields shall be provided to isolate chassis and body components from the heat of the tailpipe diffuser.

RADIATOR

The radiator and the complete cooling system shall meet or exceed the current edition of applicable NFPA and engine manufacturer cooling system standards.

For maximum corrosion resistance and cooling performance, the entire radiator core shall be constructed using long life aluminum alloy. The radiator core shall consist of aluminum fins, having a serpentine design, brazed to aluminum tubes. No solder joints or leaded material of any kind shall be acceptable in the core assembly.

The radiator core shall have a minimum front area of 1060 square inches.

Supply tank shall be made of heavy duty glass-reinforced nylon and the return tank shall be made of aluminum. Both tanks shall be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There shall be a full steel frame around the inserts to enhance cooling system durability and reliability.

The radiator shall be compatible with commercial antifreeze solutions.

The radiator assembly shall be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain.

The radiator shall include a de-aeration/expansion tank. For visual coolant level inspection, the radiator shall have a built-in sight glass. The radiator shall be equipped with a 15 psi pressure relief cap.

A drain port shall be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system.

Shields or baffles shall be provided to prevent recirculation of hot air to the inlet side of the radiator.

COOLANT LINES

Gates, or Goodyear, rubber hose shall be used for all engine coolant lines installed by the chassis manufacturer.

Hose clamps shall be stainless steel constant torque type to prevent coolant leakage. They shall react to temperature changes in the cooling system and expand or contract accordingly while maintaining a constant clamping pressure on the hose.

FUEL TANK

A 65 gallon fuel tank shall be provided and mounted at the rear of the chassis. The tank shall be constructed of 12-gauge, hot rolled steel. It shall be equipped with swash partitions and a vent. To eliminate the effects of corrosion, the fuel tank shall be mounted with stainless steel straps (no exception).

A 0.75" drain plug shall be provided in a low point of the tank for drainage.

A fill inlet shall be located on the left hand side of the body and be covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only."

A 0.50" diameter vent shall be provided running from top of tank to just below fuel fill inlet.

The tank shall meet all FHWA 393.67 requirements including a fill capacity of 95 percent of tank volume.

All fuel lines shall be provided as recommended by the engine manufacturer.

DIESEL EXHAUST FLUID TANK

A 7.3 gallon diesel exhaust fluid (DEF) tank shall be provided and mounted under the cab on the driver's side.

A fill inlet shall be provided on the driver's side of the cab. The lift up door shall be spring loaded and be brushed stainless steel.

The tank shall meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing.

The tank shall include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.

TRANSMISSION

An Allison 6th generation, Model EVS 4000P, electronic, torque converting, automatic transmission shall be provided.

The transmission shall be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display shall indicate when service is due.

Two (2) PTO openings shall be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock).

A transmission temperature gauge with an amber light and buzzer shall be installed on the cab instrument panel.

TRANSMISSION SHIFTER

A six (6)-speed push button shift module shall be mounted to right of driver on console. Shift position indicator shall be indirectly lit for after dark operation.

The transmission ratio shall be:

1st	3.51 to 1.00
2nd	1.91 to 1.00
3rd	1.43 to 1.00
4th	1.00 to 1.00
5th	0.75 to 1.00
6th	0.64 to 1.00
R	4.80 to 1.00

TRANSMISSION COOLER
A Modine plate and fin transmission oil cooler shall be provided using engine coolant to control the transmission oil temperature.

DRIVELINE
Drivelines shall be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints.

The shafts shall be dynamically balanced before installation.

A splined slip joint shall be provided in each driveshaft where the driveline design requires it. The slip joint shall be coated with Glidecoat® or equivalent.

STEERING
Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, shall be provided. For reduced system temperatures, the power steering shall incorporate an air to oil cooler and Paccar hydraulic pump with integral pressure and flow control. All power steering lines shall have wire braded lines with crimped fittings.

A tilt and telescopic steering column shall be provided to improve fit for a broader range of driver configurations.

STEERING WHEEL
The steering wheel shall be 18.00" in diameter, have tilting and telescoping capabilities, and a 2-spoke design.

BUMPER
A one (1)-piece bumper manufactured from .25" formed steel with a .38" bend radius shall be provided. The bumper shall be a minimum of 12.00" high with a 1.50" top and bottom flange. The bumper shall be 95.28" wide with 45 degree corners.

The bumper shall extend 26.00" from the face of the cab.

The bumper extension frame shall be fabricated using .38" gussets welded to 2.00" x 5.00" steel tubing running front to back with .50" front and rear plates mounted to the chassis frame. Fabricated "U" shaped channel supports the weight of the bumper and provides the main strength in frontal crash. .25" steel is formed into "C" shaped backing plates for mounting of the bumper and providing protection to the cab.

The bumper shall be metal finished and painted to match the lower job color of the apparatus.

The bumper extension's cross section is considered expendable, and a crush zone. The bumper is not intended for pushing other vehicles or objects.

Tow hooks/eyes located under the bumper extension are for straight pull only.

TOW HOOKS

Two (2) chromed steel tow hooks shall be installed under the bumper and attached to the front frame members. The tow hooks shall be designed and positioned to allow up to a 6,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow hooks shall not be used for lifting of the apparatus.

BUMPER TRAY

A full width bumper tray, constructed of smooth aluminum, shall be located in the under slung bumper extension.

The tray shall be a bolted modular design, 9.25" deep.

The tray shall have capacity for 100' of 1.75" on the officer side of the Partition .

Black rubber grating shall be provided at the bottom of the tray. Drain holes are also provided.

GRAVEL PAN

A gravel pan, constructed of bright aluminum treadplate, shall be furnished between the bumper and cab face.

The gravel pan shall be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.

PORTABLE WINCH RECEIVER

A portable winch receiver shall be installed at the front bumper extension of the apparatus.

The winch receiver shall be constructed of heavy steel tubing and reinforced to the bumper extension framework for the receiving portion. The winch receiver shall be a class IV receiver.

Winch power shall be provided at location.

PORTABLE WINCH RECEIVERS

Two (2) portable winch receivers shall be installed under the front bumper extension of the apparatus. They shall be located one (1) each end, under the extension, facing the side.

The winch receiver shall be constructed of heavy steel tubing and reinforced to the bumper extension framework for the receiving portion. The winch receiver shall be a class IV receiver with a 10,000 lbs straight line pull rating.

TRAY COVER

A bright aluminum treadplate cover shall be provided over the full width tray. The cover shall be raised approximately 8.50" above the gravel pan.

The cover shall be full width.

The cover shall be attached with a stainless steel hinge.

The cover shall be secured with two (2) Southco T-handle rubber draw latches in the closed position and pneumatic stay arm on each side shall hold the cover in the open position.

CAB

The cab shall be designed specifically for the fire service and manufactured by the chassis builder.

The cab shall be built by the apparatus manufacturer in a facility located on the manufacturer's premises (no exception).

For reasons of structural integrity and enhanced occupant protection, the cab shall be a heavy duty design, constructed to the following minimal standards.

The cab shall have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar shall be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar shall be constructed from 0.13" wall extrusions. The rear wall shall be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members shall run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly.

The front of the cab shall be constructed of a 0.13" firewall plate, covered with a minimum 0.090" front skin thickness, and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support shall run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin.

The cab floors shall be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.25" thick cross-floor support providing a total thickness of 0.375" of structural material at the front floor area. The front floor area shall also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing shall run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab.

The cab shall be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability (no exception).

The centerline of front axle to the rear of the cab shall be 70.00" long.

The forward cab section shall have an overall height (from the cab roof to the ground) of approximately 99.00". The crew cab section shall have a 10.00" raised roof, with an overall cab height of approximately 109.00". The overall height listed shall be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the

suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension shall increase the overall height listed.

The floor to ceiling height inside the crew cab shall be 64.50" in the center and outboard positions.

The crew cab floor shall measure 46.00" from the rear wall to the front of the rear facing seat risers.

The engine tunnel, at the rearward highest point (knee level), shall measure 61.50" to the rear wall.

The crew cab shall be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants.

The cab shall be a full tilt cab style.

A 3-point cab mount system with rubber isolators shall improve ride quality by isolating chassis vibrations from the cab.

CAB ROOF DRIP RAIL

For enhanced protection from inclement weather, a drip rail shall be furnished on the sides of the cab. The drip rail shall be painted to match the cab roof, and bonded to the sides of the cab. The drip rail shall extend the full length of the cab roof.

FENDER LINERS

Full circular inner fender liners in the wheel wells shall be provided.

PANORAMIC WINDSHIELD

A 1-piece safety glass windshield shall be provided with over 2,775 square inches of clear viewing area. The windshield shall be full width and shall provide the occupants with a panoramic view. The windshield shall consist of three (3) layers: outer light, middle safety laminate, and inner light. The outer light layer shall provide superior chip resistance. The middle safety laminate layer shall prevent the windshield glass pieces from detaching in the event of breakage. The inner light shall provide yet another chip resistant layer. The cab windshield shall be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern shall be applied on the outside perimeter of the windshield for a finished automotive appearance.

WINDSHIELD WIPERS

Three (3) electric windshield wipers with washer shall be provided that meet FMVSS and SAE requirements.

The washer reservoir shall be able to be filled without raising the cab.

ENGINE TUNNEL

Engine hood side walls shall be constructed of 0.375" aluminum. The top shall be constructed of 0.125" aluminum and shall be tapered at the top to allow for more driver and passenger elbow room.

The engine hood shall be insulated for protection from heat and sound. The noise insulation keeps the dBA level within the limits stated in the current edition of applicable NFPA standards.

The engine tunnel shall be no higher than 17.00" off the crew cab floor (no exception).

INTERIOR CAB INSULATION

The cab shall include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, a minimum of 1.00" insulation in the crew cab floor, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.

INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING)

The interior rear wall of the crew cab shall have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats shall be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.

CAB REAR WALL EXTERIOR COVERING

The exterior surface of the rear wall of the cab shall be overlaid with brushed stainless steel except for areas that are not typically visible when the cab is lowered.

CAB LIFT

A hydraulic cab lift system shall be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves.

Lift controls shall be located on the right side pump panel or front area of the body in a convenient location.

The cab shall be capable of tilting 43 degrees to accommodate engine maintenance and removal.

The cab shall be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system shall be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms shall return to the normally closed and locked position.

The hydraulic cylinders shall be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position.

For increased safety, a redundant mechanical stay arm shall be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device shall be manually stowed to its original position before the cab can be lowered.

Cab Lift Interlock

The cab lift system shall be interlocked to the parking brake. The cab tilt mechanism shall be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism shall be disabled.

GRILLE

A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, shall be provided on the front center of the cab.

SIDE OF CAB MOLDING

Chrome molding shall be provided on both sides of cab.

MIRRORS

A Retrac, dual vision, motorized, west coast style mirror, with chrome finish, shall be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass shall be heated and adjustable with remote control within reach of the driver.

An amber marker light shall be provided on each mirror head.

DOORS

To enhance entry and egress to the cab, the forward cab door openings shall be a minimum of 37.50" wide x 63.37" high. The crew cab doors shall be located on the sides of the cab and shall be constructed in the same manner as the forward cab doors. The crew cab door openings shall be a minimum of 34.30" wide x 73.25" high.

The forward cab and crew cab doors shall be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins shall be constructed from 0.090" aluminum.

A customized, vertical, pull-down type door handle shall be provided on the exterior of each cab door. The finish of the door handle shall be chrome/black. The exterior handle shall be designed specifically for the fire service to prevent accidental activation, and shall provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands.

Each door shall also be provided with an interior flush, open style paddle handle that shall be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles shall provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands.

The cab doors shall be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys shall be Model 751. The locks shall be capable of activating when the doors are open or closed. The doors shall remain locked if locks are activated when the doors are opened, then closed.

A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf shall be provided on all cab doors. There shall be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit.

A chrome grab handle shall be provided on the inside of each cab door for ease of entry.

A red webbed grab handle shall be installed on the crew cab door stop strap. The grab handles shall be securely mounted.

The bottom cab step at each cab door location shall be located below the cab doors and shall be exposed to the exterior of the cab.

Door Panels

The inner cab door panels shall be constructed out of brushed stainless steel.

ELECTRIC OPERATED CAB DOOR WINDOWS

All four (4) cab doors shall be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door shall have four (4) switches, one (1) to control each door window.

Each switch shall allow intermittent or auto down operation for ease of use. Auto down operation shall be actuated by holding the window down switch for approximately 1 second.

CAB STEPS

A dual step shall be provided below each cab and crew cab door. The steps shall be designed with grip strut inserts providing support, slip resistance, and drainage. The steps shall be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps shall be a minimum 25.00" wide, and the crew cab steps shall be 21.65" wide with a 7.00" minimum depth. The bottom step shall protrude past the middle step 4.50". The step design raises the middle step higher and closer to the cab floor, resulting in a 12.00" distance from the step to cab floor in the cab and a 10.25" distance from the step to cab floor in the crew cab. Stepping distances from the ground to first step shall be approximately 16.50" and from first step to middle step shall be approximately 12.00".

The vertical surface of the upper step well shall be brushed stainless steel.

The first step shall be lit by a white 12 volt DC LED light provided on the step.

CAB EXTERIOR HANDRAILS

A 1.25" diameter slip-resistant, knurled aluminum handrail shall be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.

STEP LIGHTS
There shall be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps.

- One (1) light for the left side cab access steps.
- Two (2) lights for the left side crew cab access steps.
- Two (2) lights for the right side crew cab access steps.
- One (1) light for the right side cab access step.

In order to ensure exceptional illumination, each light shall provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light.

The lights shall be activated when the battery switch is on and the adjacent door is opened.

FENDER CROWNS
Stainless steel fender crowns shall be installed at the cab wheel openings.

CREW CAB WINDOWS
One (1) fixed window with tinted glass shall be provided on each side of the cab, to the rear of the front cab door. The windows shall be sized to enhance light penetration into the cab interior. The windows shall measure 18.70" wide x 23.75" high.

PIKE POLE MOUNTING
A total of two (2) set(s) of Fire Hooks Unlimited, model Hooks Nest 4 and PAC Handlelok, model 1004, mounting brackets shall be provided for the mounting of Fire Hooks Unlimited pike poles. The Hooks Nest 4 head bracket shall be used to secure the upper portion of the pike pole in conjunction with the Handlelok to secure the handle of the pike pole. The lower pinned portion of the Nest 4 bracket shall be shipped with loose equipment. The brackets shall be installed on the back of the cab, one on each side.

CAB DASH
The driver side dash, switch panel located to the right of the driver, and center console shall be an easily removable high impact resistant polymer cover.

The instrument gauge cluster shall be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster.

The officer side dash shall be a flat top design with an upper beveled edge to provide easy maintenance and shall be constructed out of aluminum and painted to match the cab interior.

MOUNTING SYSTEM

There shall be one (1) section of Pac Trac equipment mounting systems located PS forward facing position, the back wall shall be covered from floor to ceiling, from the outside wall to the center forward facing seats..

Pac Trac mounts shall be certified by Pac Trac to meet the current edition of applicable NFPA standards for mounting of equipment inside the cab.

MOUNTING PLATE ON ENGINE TUNNEL

Equipment installation provisions shall be installed on the engine tunnel.

A 0.188" smooth aluminum plate shall be bolted to the top surface of the engine tunnel. The plate shall follow the contour of the engine tunnel and shall run the entire length of the engine tunnel. The plate shall be spaced off the engine tunnel 1.00" to allow for wire routing below the plate.

There shall be a 12" lip located on the engine tunnel where the rear flat transitions to the upward slope..

The mounting surface shall be painted to match the cab interior.

CAB INTERIOR

The cab interior shall be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service.

The engine tunnel shall be padded and covered, on the top and sides, with black 36 ounce leather grain vinyl resistant to oil, grease, and mildew.

For durability and ease of maintenance, the cab interior side walls shall be painted aluminum. The rear wall shall be painted aluminum.

Headliner shall be installed in both forward and rear cab sections. Headliner material shall be vinyl. A sound barrier shall be part of its composition. Material shall be installed on aluminum sheet and securely fastened to interior cab ceiling.

Forward portion of cab headliner shall permit easy access for service of electrical wiring or other maintenance needs.

All wiring shall be placed in metal raceways. Routing through holes in tubing shall not be accepted due to chaffing that installation shall cause.

CAB INTERIOR UPHOLSTERY

The cab interior upholstery shall be 36 oz black vinyl.

CAB INTERIOR PAINT

The cab interior metal surfaces, excluding the rear heater panels, shall be painted red, vinyl texture paint.

The rear heater panels shall be painted black, vinyl textured paint.

CAB FLOOR

The cab and crew cab floor areas shall be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler.

The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.

DEFROST/AIR CONDITIONING SYSTEM

A ceiling mounted combination heater, defroster and air conditioning system shall be installed in the cab above the engine tunnel area.

Cab Defroster

A 54,000 BTU heater-defroster unit with 690 SCFM of air flow shall be provided inside the cab. The heater-defrost shall be installed in the forward portion of the cab ceiling. Air outlets shall be strategically located in the cab header extrusion per the following:

- One (1) adjustable shall be directed towards the left side cab window
- One (1) adjustable shall be directed towards the right side cab window
- Six (6) fixed outlets shall be directed at the windshield

The defroster shall be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system shall meet or exceed SAE J382 requirements.

Cab/Crew Auxiliary Heater

There shall be one (1) 31,000 BTU auxiliary heater with 560 SCFM of air flow provided in each outboard rear facing seat riser with a dual scroll blower. An aluminum plenum incorporated into the cab structure to be used to transfer heat to the forward positions.

Air Conditioning

A condenser shall be a 59,644 BTU output that meets and exceeds the performance specification shall be mounted on the radiator. Mounting the condenser below the cab or body would reduce the performance of the system and shall not be acceptable.

The air conditioning system shall be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes.

The cooling performance test shall be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours.

The evaporator unit shall be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator shall include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab.

The evaporator unit shall have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications.

Adjustable air outlets shall be strategically located on the forward plenum cover per the following:

- Four (4) shall be directed towards the seating position on the left side of the cab
- Four (4) shall be directed towards the seating position on the right side of the cab

Adjustable air outlets shall be strategically located on the evaporator cover per the following:

- Five (5) shall be directed towards crew cab area

A high efficiency particulate air (HEPA) filter shall be included for the system. Access to the filter cover shall be secured with four (4) screws.

The air conditioner refrigerant shall be R-134A and shall be installed by a certified technician.

Climate Control

An automotive style controller shall be provided to control the heat and air conditioning system within the cab. The controller shall have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control.

The system shall control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature.

The AC system shall be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob shall engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position.

The system controller shall be located within panel position #12.

Gravity Drain Tubes

Two (2) condensate drain tubes shall be provided for the air conditioning evaporator. The drip pan shall have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps shall be provided.

SUN VISORS

Two (2) smoked Lexan™ sun visors shall be provided. The sun visors shall be located above the windshield with one (1) mounted on each side of the cab.

There shall be a black plastic thumb latch provided to help secure each sun visor in the stowed position.

GRAB HANDLE

A black rubber covered grab handle shall be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The officer's side grab handle shall be mounted on the lower portion of the door post. The grab handle shall be securely mounted to the post area between the door and windshield.

ENGINE COMPARTMENT LIGHTS

There shall be one (1) Whelen®, Model 3SC0CDCR, 12 volt DC, 3.00" white LED light with Model 3FLANGEC, chrome flange kit installed under the cab to be used as engine compartment illumination.

These light shall be activated automatically when the cab is raised or when the dip stick door is opened.

ACCESS TO ENGINE DIPSTICKS

For access to the engine oil and transmission fluid dipsticks, there shall be a door on the engine tunnel, inside the crew cab. The door shall be on the rear wall of the engine tunnel, on the vertical surface.

The engine oil dipstick shall allow for checking only. The transmission dipstick shall allow for both checking and filling.

The door shall have a rubber seal for thermal and acoustic insulation. One (1) Southco C2 black powder coated flush latch shall be provided on the access door.

MAP BOX

There shall be one (1) map box with three (3) bins, open at top. The map box shall be shipped with loose equipment. The map box shall be divided into three (3) bins, each being 12.50" wide x 3.00" high x 12.00" deep. Each bin shall slant 30 degrees from horizontal. The map box shall be constructed of 0.125" aluminum and shall be painted to match the cab interior.

SEATING CAPACITY

The seating capacity of the vehicle shall be six (6).

DRIVER SEAT

A seat shall be provided in the cab for the driver. The seat design shall be a cam action type, with air suspension. For increased convenience, the seat shall include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control shall be a towel-bar

style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat shall have an adjustable reclining back. The seat back shall be a high back style with side bolster pads for maximum support. For optimal comfort, the seat shall be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat shall be furnished with a 3-point, shoulder type seat belt.

OFFICER SEAT

A seat shall be provided in the cab for the passenger. The seat shall be a cam action type with air suspension. For increased convenience, the seat shall be provided with 6.00" double locking fore/aft slide adjustment. For optimal comfort, the seat shall be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back shall be an SCBA back style with a 5 degree fixed recline angle. The SCBA cavity shall be adjustable from front to rear in 1.00" increments to accommodate different sized SCBA cylinders. Moving the SCBA cavity shall be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat shall be furnished with a 3-point, shoulder type seat belt.

REAR FACING DRIVER SIDE OUTBOARD SEAT

There shall be one (1) rear facing seat provided at the driver side outboard position in the crew cab. For optimal comfort, the seat shall be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back shall be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity shall be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity shall be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat shall be furnished with a 3-point, shoulder type seat belt.

REAR FACING PASSENGER SIDE OUTBOARD SEAT

There shall be one (1) rear facing seat provided at the passenger side outboard position in the crew cab. For optimal comfort, the seat shall be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back shall be an SCBA back style with 5 degree fixed recline angle. The SCBA cavity shall be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity shall be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seat shall be furnished with a 3-point, shoulder type seat belt.

FORWARD FACING LEFT SIDE CABINET

A forward facing cabinet shall be provided in the crew cab located at the left side outboard position.

The cabinet shall be 16.50" wide x 48.50" high x 16.25" deep. The interior door shall be web netting. The netting shall be made with 2.00" wide nylon material with 2.00" openings permanently fastened on the bottom with seat belt buckle fasteners on the top to secure it. A bar and orange pull strap to be provided connecting the fasteners for a single release. The clear door opening of the cabinet shall be 14.00" wide x 45.50" high.

The cabinet shall include two (2) infinitely adjustable shelves with a 1.25" up-turned lippainted to match the cab interior.

The cabinet shall include no louvers.

The cabinet shall be constructed of smooth aluminum and painted to match the cab interior.

Cabinet Light

There shall be one (1) white LED strip light installed on the right side of the interior cabinet door opening and one (1) white LED strip light installed on the left side of the interior cabinet door opening. The lighting shall be controlled by a rocker switch on the front of the cabinet.

FORWARD FACING CENTER SEATS

There shall be two (2) forward facing seats provided at the center position in the crew cab. For optimal comfort, the seats shall be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat back shall be an SCBA style with 90 degree back. The SCBA cavity shall be adjustable from front to rear in 1.00" increments to accommodate different sized SCBA cylinders. Moving the SCBA cavity shall be accomplished by unbolting, relocating, and re-bolting it in the desired location.

The seats shall be furnished with a 3-point, shoulder type seat belt.

SEAT UPHOLSTERY

All seat upholstery shall be leather grain 36 oz dark silver gray vinyl resistant to oil, grease and mildew. The cab and tiller cab (if applicable) shall have six (6) seating positions.

AIR BOTTLE HOLDERS

All SCBA type seats in the cab shall have a "Hands-Free" auto clamp style bracket in its backrest. For efficiency and convenience, the bracket shall include an automatic spring clamp that allows the occupant to store the SCBA bottle by simply pushing it into the seat back. For protection of all occupants in the cab, in the event of an accident, the inertial components within the clamp shall constrain the SCBA bottle in the seat and shall exceed the NFPA standard of 9G. Bracket designs with manual restraints (belts, straps, buckles) that could be inadvertently

left unlocked and allow the SCBA to move freely within the cab during an accident, shall not be acceptable.

There shall be a quantity of five (5) SCBA brackets.

SEAT BELTS

All cab and tiller cab (if applicable) seating positions shall have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length shall meet or exceed the current edition of applicable NFPA and CAN/ULC - S515 standards.

The 3-point shoulder type seat belts shall include height adjustment. This adjustment shall optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts shall be furnished with dual automatic retractors that shall provide ease of operation in the normal seating position.

The 3-point shoulder type belts shall also include the ReadyReach® D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location.

Any flip up seats shall include a 3-point shoulder type belts only.

To ensure safe operation, the seats shall be equipped with seat belt sensors in the seat cushion and belt receptacle that shall activate an alarm indicating a seat is occupied but not buckled.

HELMET STORAGE PROVIDED BY FIRE DEPARTMENT

NFPA 1900, 2024 edition, section 11.1.8.4.1 and CAN/ULC S515:2024 edition, section 5.2, requires a location for helmet storage be provided.

There is no helmet storage on the apparatus as manufactured. The fire department shall provide a location for storage of helmets.

CAB DOME LIGHTS

There shall be four (4) dual LED dome lights with black bezels provided. Two (2) lights shall be mounted above the inside shoulder of the driver and officer and two (2) lights shall be installed and located, one (1) on each side of the crew cab.

The color of the LED's shall be red and white.

The white LED's shall be controlled by the door switches and the lens switch.

The color LED's shall be controlled by the lens switch.

All dome lights on the apparatus shall be illuminated per the current edition of applicable NFPA standards per seating position.

PORTABLE HAND LIGHTS PROVIDED BY FIRE DEPARTMENT

The hand lights are not on the apparatus as manufactured. The fire department shall provide and mount these hand lights.

CAB INSTRUMENTATION

The cab instrument panel shall include gauges, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches shall be identified by a label adjacent to each item. Actuation of the headlight switch shall illuminate the labels in low light conditions. Telltale indicator lamps shall not be illuminated unless necessary. The cab instruments and controls shall be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership.

Gauges

The gauge panel shall include the following ten (10) black faced gauges with black bezels to monitor vehicle performance:

- Voltmeter gauge (volts):
  - Low volts (11.8 VDC)
    - Amber telltale light on indicator light display with steady tone alarm
  - High volts (15.5 VDC)
    - Amber telltale light on indicator light display with steady tone alarm
- Engine Tachometer (RPM)
- Speedometer MPH (Major Scale), KM/H (Minor Scale)
- Fuel level gauge (Empty - Full in fractions):
  - Low fuel (1/8 full)
    - Amber indicator light in gauge dial with steady tone alarm
- Engine Oil pressure Gauge (PSI):
  - Low oil pressure to activate engine warning lights and alarms
    - Red indicator light in gauge dial with steady tone alarm
- Front Air Pressure Gauges (PSI):
  - Low air pressure to activate warning lights and alarm
    - Red indicator light in gauge dial with steady tone alarm
- Rear Air Pressure Gauges (PSI):
  - Low air pressure to activate warning lights and alarm
    - Red indicator light in gauge dial with steady tone alarm
- Transmission Oil Temperature Gauge (Fahrenheit):
  - High transmission oil temperature activates warning lights and alarm
    - Amber indicator light in gauge dial with steady tone alarm
- Engine Coolant Temperature Gauge (Fahrenheit):
  - High engine temperature activates an engine warning light and alarms
    - Red indicator light in gauge dial with steady tone alarm
- Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):

- Low fluid (1/8 full)
  - Amber indicator light in gauge dial

Indicator Lamps

To promote safety, the following telltale indicator lamps shall be located on the instrument panel in clear view of the driver. The indicator lamps shall be "dead-front" design that is only visible when active. The colored indicator lights shall have descriptive text or symbols.

The following amber telltale lamps shall be present:

- Low coolant
- Trac cntl (traction control) (where applicable)
- Check engine
- Check trans (check transmission)
- Air rest (air restriction)
- DPF (engine diesel particulate filter regeneration)
- HET (engine high exhaust temperature) (where applicable)
- ABS (antilock brake system)
- MIL (engine emissions system malfunction indicator lamp) (where applicable)
- Regen inhibit (engine emissions regeneration inhibit) (where applicable)
- Side roll fault (where applicable)
- Front air bag fault (where applicable)
- Aux brake overheat (auxiliary brake overheat) (where applicable)
- The following red telltale lamps shall be present:
- Ladder rack down
- Parking brake
- Stop engine
- The following green telltale lamps shall be present:
- Left turn
- Right turn
- Battery on
- Ignition
- Aux brake (auxiliary brake engaged) (where applicable)
- The following blue telltale lamps shall be present:
- High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm shall be provided whenever a warning condition is active.

Indicator Lamp and Alarm Prove-Out

A system shall be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms shall perform prove-out for 3 to 5 seconds when the ignition switch is moved to the on position with the battery switch on.

Control Switches

For ease of use, the following controls shall be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches shall have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch shall be provided. The first switch position shall deactivate all parking and headlights. The second switch position shall activate the parking lights. The third switch shall activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch shall be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times shall allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch shall be provided. The first switch position shall turn off and deactivate vehicle ignition. The second switch position shall activate vehicle ignition and shall perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position shall temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position shall terminate the alarm silence feature and reset function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch shall be provided. The first switch position is the default switch position. The second switch position shall activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

Hazard switch shall be provided on the instrument panel or on the steering column.

Heater, defrost, and air conditioning control panel.

Turn signal arm: A self-canceling turn signal with high beam headlight controls.

Windshield wiper control shall have high, low, and intermittent modes.

Parking brake control: An air actuated push/pull park brake control.

Chassis horn control: Activation of the chassis horn control shall be provided through the center of the steering wheel.

High idle engagement switch: A maintained rocker switch with integral indicator lamp shall be provided. The switch shall activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch shall indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light shall be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Emergency switching shall be controlled by multiple individual warning light switches for various groups or areas of emergency warning lights. An Emergency Master switch provided on the instrument panel that enables or disables all individual warning light switches is included.

An additional "Emergency Master" button shall be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.

Custom Switch Panels

The design of cab instrumentation shall allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There shall be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

Diagnostic Panel

A diagnostic panel shall be provided and accessible while standing on the ground. The panel shall be located inside the driver's side door left of the steering column. The diagnostic panel shall allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches shall allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel shall include the following:

- ENGINE/TRANSMISSION/ABS J1939 Diagnostic Port
- ABS Diagnostic Switch and Indicator - The switch and amber indicator shall allow access to diagnostic mode and display of standard ABS system fault blink codes that may be generated by the ABS system
- DPF REGEN (Diesel Particulate Filter Regeneration Switch) (where applicable) shall be provided to request regeneration of the engine emission system. An amber indicator shall be provided on top of the switch that shall illuminate in a "CHECK ENGINE" condition
- REGEN INHIBIT (Diesel Particulate Filter Regeneration Inhibit Switch) (where applicable) shall be provided that shall request that regeneration be temporarily prevented. A green indicator shall be provided on top of the Regen Inhibit switch that

shall illuminate when the Regen Inhibit feature is active. Regen Inhibit shall be disabled upon cycling of the ignition switch to the off state.

AIR RESTRICTION INDICATOR

A high air restriction warning indicator light (electronic) shall be provided.

"DO NOT MOVE APPARATUS" INDICATOR

A flashing red indicator light, located in the driving compartment, shall be illuminated automatically per the current NFPA requirements. The light shall be labeled "Do Not Move Apparatus If Light Is On."

The same circuit that activates the Do Not Move Apparatus indicator shall activate a pulsing alarm when the parking brake is released.

SWITCH PANELS

The built-in switch panels shall be located in the lower console or overhead console of the cab. Switches shall be rocker type with an indicator light, of which is an integral part of the switch.

WIPER CONTROL

Wiper control shall consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer controls. The control shall be located above the ignition switch.

CUSTOMER SUPPLIED RADIO WIRING

There shall be one (1) 12 volt combination wiring leads of which each shall include one (1) battery switched, one (1) ignition and one (1) negative for use with radio equipment.

Each lead shall be 18.00" long and be provided Behind officer seat . The leads shall be clearly marked in a coil and terminate with butt splices.

A breaker rated for 30 amps shall be provided for circuit protection of the battery switched lead with a minimum of 10 gauge wire.

A breaker rated for 7.5 amps shall be provided for circuit protection of the ignition lead.

The wires shall be colored coded as follows:

- red for battery switched
- yellow for ignition
- black for ground

SPARE CIRCUIT

There shall be one (1) pair of wires, including a positive and a negative, installed on the apparatus.

The wires shall have the following features:

- The positive wire shall be connected directly to the battery power.
- The negative wire shall be connected to ground.
- Wires shall be capable of carrying 6 amps.
- Power and ground shall terminate in the cab/crewcab officer side dash per department request .
- Termination shall be a Kussmaul part number 091-264 switch panel dual USB-A, 18 watt and USB-C, 45 watt SVR, charger socket.
- Wires shall be protected to meet the NFPA Automotive Fire Apparatus standard.

Battery direct loads cannot be Load Managed

SPARE CIRCUIT

There shall be one (1) pair of wires, including a positive and a negative, installed on the apparatus.

The wires shall have the following features:

- The positive wire shall be connected directly to the battery power.
- The negative wire shall be connected to ground.
- Wires shall be capable of carrying 15 amps.
- Power and ground shall terminate behind officer seat.
- Termination shall be with a 10-place bus bar with screws and removable cover.
- Wires shall be protected to meet the NFPA Automotive Fire Apparatus standard.

Battery direct loads cannot be Load Managed.

INFORMATION CENTER

There shall be a LCD display integral to the cab gauge panel provided that shall display the following information:

- Total distance
- Trip distance
- Total hours
- Trip hours
- PTO "A" hours
- PTO "B" hours

VEHICLE DATA RECORDER

There shall be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided.

The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to

a laptop to retrieve required information. The program to download the information from the VDR will be available to download on-line.

The vehicle data recorder shall be capable of recording the following data via hardwired and/or CAN inputs:

- Vehicle Speed - MPH
- Acceleration - MPH/sec
- Deceleration - MPH/sec
- Engine Speed - RPM
- Engine Throttle Position - % of Full Throttle
- ABS Event - On/Off
- Seat Occupied Status - Yes/No by Position
- Seat Belt Buckled Status - Yes/No by Position
- Master Optical Warning Device Switch - On/Off
- Internal clock syncs the time and date when a laptop is connected

Seat Belt Monitoring System

A seat belt monitoring system (SBMS) shall be provided. The SBMS shall be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following:

- Seat Occupied & Buckled = Green LED indicator illuminated
- Seat Occupied & Unbuckled = Red LED indicator with audible alarm
- No Occupant & Buckled = Red LED indicator with audible alarm
- No Occupant & Unbuckled = No indicator and no alarm
- FAULT = Blue LED indicator illuminated

The SBMS shall include an audible alarm that shall warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.

RADIO ANTENNA MOUNT

There shall be one (1) standard 1.125", 18 thread antenna-mounting base installed Right side on the cab roof with high efficiency, low loss, coaxial cable routed to behind the officer seat. A weatherproof cap shall be installed on the mount.

VEHICLE CAMERA SYSTEM

There shall be a color vehicle camera system provided with the following:

- One (1) Analog High Definition (AHD) black camera located at the rear of the apparatus, pointing rearward, displayed automatically with the vehicle in reverse.

The camera image shall be displayed on a 7.00" High Definition (HD) display located centered overhead between the sun visors. The display shall include manual camera activation capability and audio from the active camera.

The following components shall be included:

- One (1) HD700136DC, display
- One (1) 1080p AHD rear camera
- All necessary cables

Camera Switcher
A camera switcher is not required.

RECESS REAR CAMERA
A rear camera recess shall be provided to the driver side rear.

ELECTRICAL POWER CONTROL SYSTEM
A compartment shall be provided in or under the cab to house the vehicle's electrical power and signal circuit protection and control components. The power and signal protection and control compartment shall contain circuit protection devices and power control devices. Power and signal protection and control components shall be protected against corrosion, excessive heat, excessive vibration, physical damage and water spray.

Serviceable components shall be readily accessible.

Circuit protection devices, which conform to SAE standard, shall be utilized to protect each circuit. All circuit protection devices shall be sized to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers shall be Type-I automatic reset (continuously resetting) and conform to SAE J553 or J258. When required, automotive type fuses conforming to SAE J554, J1284, J1888 or J2077 shall be utilized to protect electronic equipment.

Power control relays and solenoids shall have a direct current (dc) rating of 125 percent of the maximum current for which the circuit is protected.

Visual status indicators shall be supplied to identify control safety interlocks and vehicle status. In addition to visual status indicators, audible alarms designed to provide early warning of problems before they become critical shall be used.

Voltage Monitor System
A voltage monitor system shall be provided to indicate the status of each battery system connected to the vehicle's electrical load. The monitor system shall provide visual and audio warning when the system voltage is below optimum levels.

Power and Ground Studs
Spare circuits shall be provided in the primary distribution center for two-way radio equipment.

The spare circuits shall consist of the following:

- One (1) 12-volt DC, 30 amp battery direct spare
- One (1) 12-volt DC ground and un-fused switched battery stud located in or adjacent to the power distribution center

EMI/RFI Protection

The electrical system proposed shall include means to control undesired electromagnetic and radio frequency emissions. State of the art electrical system design and components shall be used to ensure radiated and conducted EMI (electromagnetic interference) and RFI (radio frequency interference) emissions are suppressed at their source.

The apparatus proposed shall have the ability to operate in the electromagnetic environment typically found in fire ground operations. The contractor shall be able to demonstrate the EMI and RFI testing has been done on similar apparatus and certifies that the vehicle proposed meets SAE J551 requirements.

EMI/RFI susceptibility shall be controlled by applying immune circuit designs, shielding, twisted pair wiring and filtering. The electrical system shall be designed for full compatibility with low level control signals and high powered two-way radio communication systems. Harness and cable routing shall be given careful attention to minimize the potential for conducting and radiated EMI-RFI susceptibility.

ELECTRICAL

All 12-volt electrical equipment installed by the apparatus manufacturer shall conform to modern automotive practices. All wiring shall be high temperature crosslink type. Wiring shall be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers shall be provided which conform to SAE Standards. Wiring shall be color, function and number coded. Function and number codes shall be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors shall be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.

Electrical wiring and equipment shall be installed utilizing the following guidelines:

1. All holes made in the roof shall be caulked with silicon, rope caulk is not acceptable. Large fender washers, liberally caulked, shall be used when fastening equipment to the underside of the cab roof.
2. Any electrical component that is installed in an exposed area shall be mounted in a manner that shall not allow moisture to accumulate in it. Exposed area shall be defined as any location outside of the cab or body.
3. Electrical components designed to be removed for maintenance shall not be fastened with nuts and bolts. Metal screws shall be used in mounting these devices. Also a coil

of wire shall be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.

4. Corrosion preventative compound shall be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections shall require this compound in the plug to prevent corrosion and for easy separation (of the plug).
5. All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.
6. All electrical terminals in exposed areas shall have silicon applied completely over the metal portion of the terminal.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, shall be furnished. Rear identification lights shall be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads shall be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test shall be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

The results of the tests shall be recorded and provided to the purchaser at time of delivery.

BATTERY SYSTEM

There shall be four (4) 12 volt Stryten/Exide®, Model 31S950X5W, batteries that include the following features shall be provided:

- 950 CCA, cold cranking amps
- 190 amp reserve capacity
- High cycle
- Group 31
- Rating of 3800 CCA at 0 degrees Fahrenheit
- 760 minutes of reserve capacity
- Threaded stainless steel studs

Each battery case shall be a black polypropylene material with a vertically ribbed container for increased vibration resistance. The cover shall be manifold vented with a central venting location to allow a 45 degree tilt capacity.

The inside of each battery shall consist of a "maintenance free" grid construction with poly wrapped separators and a flooded epoxy bottom anchoring for maximum vibration resistance.

BATTERY SYSTEM

There shall be a single starting system with an ignition switch and starter button provided and located on the cab instrument panel.

MASTER BATTERY SWITCH

There shall be a master battery switch provided within the cab within easy reach of the driver to activate the battery system.

An indicator light shall be provided on the instrument panel to notify the driver of the status of the battery system.

BATTERY COMPARTMENTS

Batteries shall be placed on non-corrosive mats and be stored in well ventilated compartments located under the cab and bolted directly to the chassis frame. The battery boxes shall have reinforced sides. The battery compartments shall be constructed of 0.188" steel plate and be designed to accommodate a maximum of three (3) group 31 batteries in each compartment. The battery hold-downs shall be of a non-corrosive material. All bolts and nuts shall be stainless steel.

Heavy-duty battery cables shall be used to provide maximum power to the electrical system. Cables shall be color coded.

Battery terminal connections shall be coated with anti-corrosion compound. Battery solenoid terminal connections shall be encapsulated with semi-permanent rubberized compound.

JUMPER STUDS

One (1) set of battery jumper studs with plastic color-coded covers shall be included on the battery compartments.

BATTERY CHARGER

There shall be a Kussmaul™, Chief Series Smart Charger 6012, product code 091-266-12-60, 60 amp battery charger with build-in touch screen display provided.

The battery charger shall be wired to the AC shoreline inlet through a junction box located near the battery charger.

The battery charger shall be located in LS3, left side body compartment, mounted on the left wall as high as practical.

REMOTE CONTROL PANEL - BATTERY CHARGER

There shall be a Kussmaul™, Model 091-94-12 universal display panel included. It shall be wired directly to the chassis batteries.

The battery charger indicator shall be located on the driver's seat riser.

AUTO EJECT FOR SHORELINE

There shall be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet provided to operate the dedicated 120 volt AC circuits on the apparatus.

The shoreline inlet shall include red weatherproof flip up cover.

There shall be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting.

The shoreline shall be connected to the battery charger.

There shall be a mating connector body supplied with the loose equipment.

There shall be a label installed near the inlet that state the following:

- Line Voltage
- Current Ratting (amps)
- Phase
- Frequency

The shoreline receptacle shall be recessed into the driver's side cab, above the front wheel with blister inside the crew cab.

ELECTRIC POWER FOR WINCH

Electric power provisions shall be furnished for the portable winch from the chassis battery system.

The receiver plug shall be located rear receiver and bumper side receivers.

A total quantity of three (3) receptacles shall be provided.

ALTERNATOR

A Delco Remy®, Model 40SI, alternator shall be provided. It shall have a rated output current of 320 amps, as measured by SAE method J56. The alternator shall feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator shall be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.

ELECTRONIC LOAD MANAGEMENT

An electronic load management (ELM) system that monitors the vehicles 12-volt electrical system, and automatically reduces the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.

The ELM shall monitor the vehicle's voltage while at the scene (parking brake applied). It shall sequentially shut down individual electrical loads when the system voltage drops below a preset value. Two (2) separate electrical loads shall be controlled by the load manager. The ELM shall sequentially re-energize electrical loads as the system voltage recovers.

HEADLIGHTS

There shall be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights with heated lens mounted in the front quad style, chrome housing on each side of the cab grille:

- the outside light on each side shall contain a part number 055***1 low beam module
- the inside light on each side shall contain a part number 055***1 high beam module
- the headlights to include chrome bezels

The low beam lights shall be activated when the headlight switch is on.

The high beam and low beam lights shall be activated when the headlight switch and the high beam switch is activated.

FRONT DIRECTIONALS

The front directional's shall be Whelen®, Model M62T, 4.31" high x 6.75" wide x 1.37" deep directional lights with amber LEDs. The lens color(s) to be clear. The directional's shall be housed in the same common bezel as the front warning light and shall be located above the headlights. The housing to be polished and the trim shall be chrome.

The flash pattern of the directional lights shall be Steady On (Arrow).

INTERMEDIATE LIGHT

There shall be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel. The light shall double as a turn signal and marker light.

CAB CLEARANCE/MARKER/ID LIGHTS

There shall be five (5) amber LED lights provided to indicate the presence and overall width of the vehicle in the following locations:

- Three (3) amber LED identification lights shall be installed in the center of the cab above the windshield.
- Two (2) amber LED clearance lights shall be installed, one (1) on each outboard side of the cab above the windshield.

FRONT CAB SIDE DIRECTIONAL/MARKER LIGHTS

There shall be two (2) Weldon, Model 9186-8580-29, amber LED lights installed front of the cab door, one (1) on each side of the cab.

The lights shall activate as marker lights with the headlight switch and directional lights with the corresponding directional circuit.

REAR CLEARANCE/MARKER/ID LIGHTING

There shall be a three (3) LED light bar used as identification lights located at the rear of the apparatus per the following:

- As close as practical to the vertical centerline
- Centers spaced not less than 6.00" or more than 12.00" apart
- Red in color

- All at the same height

There shall be two (2) LED lights installed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following:

- To indicate the overall width of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the rear
- All at the same height

There shall be two (2) LED lights installed on the side of the apparatus used as marker lights as close to the rear as practical per the following:

- To indicate the overall length of the vehicle
- One (1) each side of the vertical centerline
- As near the top as practical
- Red in color
- To be visible from the side
- All at the same height

There shall be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

There shall be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground.

Per FMVSS 108 and CMVSS 108 requirements.

REAR FMVSS LIGHTING

The rear stop/tail and directional lighting included in the rear tail light housing shall include the following:

- Two (2) Whelen®, Model M62BTT, 4.30" high x 6.70" wide x 1.40" deep brake/tail lights with red LEDs
- Two (2) Whelen, Model M62T, 4.30" high x 6.70" wide x 1.40" deep directional lights with amber LEDs. The directional lights shall be set to Steady On (Arrow) flash pattern.
- The lens color(s) to be clear.

There shall be two (2) Whelen Model M62BU, LED backup lights provided in the tail light housing.

LICENSE PLATE BRACKET

One (1) license plate bracket constructed of stainless steel shall be provided at the rear of the apparatus.

One (1) white LED light with chrome housing shall be provided to illuminate the license plate. A stainless steel light shield shall be provided over the light that shall direct illumination downward, preventing white light to the rear.

LIGHTING BEZEL

There shall be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Vendor logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.

BACK-UP ALARM

A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse shall be provided. The device shall sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.

CAB PERIMETER SCENE LIGHTS

There shall be four (4) Truck-Lite, Model 6060C, white LED lights with grommets provided, one (1) for each cab and crew cab door.

These lights shall be activated automatically when the battery switch is on and the exit doors are opened or by the same means as the body perimeter scene lights.

PUMP HOUSE PERIMETER LIGHTS

There shall be two (2) Truck-Lite, Model 6060C, white LED lights with grommets provided under the pump panel running boards, one (1) each side.

The lights shall be controlled by the same means as the body perimeter lights.

BODY PERIMETER SCENE LIGHTS

There shall be two (2) Truck-Lite, Model 6060C, white LED lights with grommets provided under at the rear step area of the body, one (1) each side shining to the rear.

The perimeter scene lights shall be activated when a switch within reach of the driver is activated and the parking brake is applied.

STEP LIGHTS

Four (4) white LED step lights shall be provided. One (1) step light shall be provided on each side, on the front compartment face and two (2) step lights at the rear to illuminate the tailboard.

These step lights shall be actuated with the pump panel light switch.

All steps on the apparatus shall be illuminated per the current edition of applicable NFPA standards.

12 VOLT LIGHTING

There shall be one (1) Whelen® Model P*H2*, 17,750 lumens 12 volt DC light with a combination of flood and spot optics provided on the front visor, centered.

The housing painted parts of this light assembly to be black. The light shall be controlled by a switch at the driver's side switch panel.

These light may be load managed when the parking brake is applied.

12 VOLT DC SCENE LIGHTS

There shall be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC powered light with white LEDs installed on the cab located, behind officers door, above crew cab window.

The surface mount housing shall be provided with a chrome cover.

The light shall be activated by a switch at the driver's side switch panel and by a switch at the left side pump panel.

The light may be load managed when the parking brake is applied.

12 VOLT DC SCENE LIGHTS

There shall be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC powered light with white LEDs installed on the cab located, behind drivers door, above crew cab window.

The surface mount housing shall be provided with a chrome cover.

The light shall be activated by a switch at the driver's side switch panel and by a switch at the left side pump panel.

The light may be load managed when the parking brake is applied.

12 VOLT LIGHTING

There shall be two (2) Whelen® Model PCPSM1*, 10,444 lumens 12 volt DC surface mount lights installed on the body of the apparatus located, rear body bulkhead, one each side, high as possible.

The lights shall include black housing with a chrome cover.

The lights shall be controlled by a switch at the driver's side switch panel, by a switch at the left side pump panel and by a switch in a recessed cup located at the driver's side rear bulkhead.

The lights may be load managed when the parking brake is applied.

12 VOLT LIGHTING
There shall be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC surface mount light installed on the body of the apparatus located, RS center of body side sheet.

The light shall include housing with a chrome cover.

The light shall be controlled by a switch at the driver's side switch panel and by a switch at the left side pump panel.

The light may be load managed when the parking brake is applied.

12 VOLT LIGHTING
There shall be one (1) Whelen® Model PCPSM2*, 16,000 lumens 12 volt DC surface mount light installed on the body of the apparatus located, LS centered on the body side sheet.

The light shall include housing with a chrome cover.

The light shall be controlled by a switch at the driver's side switch panel and by a switch at the left side pump panel.

The light may be load managed when the parking brake is applied.

HOSE BED LIGHTS
There shall be white 12 volt DC LED light strips with stainless steel protective cover, provided to light the hose bed area. Hose Bed lights shall meet the photometric levels listed in the current edition of applicable NFPA standards for Hose Bed lighting requirements.

- Light strips shall be installed along the upper edge of the left side of the hose bed.
- Light strips shall be installed along the upper edge of the right side of the hose bed.

The lights shall be activated by a cup switch at the rear of the apparatus no more than 72.00" from the ground.

WALKING SURFACE LIGHTS
There shall be Two (2) Amdor®, Model AY-LB-12HW0**, white 12 volt DC LED strip light(s) provided in the cargo area to illuminate the interior surface of the cargo area. Light(s) shall be located on the front sheet of the body above the cargo area.

The light shall be activated when the body step lights are on.

WATER TANK
Booster tank shall have a capacity of 750 gallons and be constructed of polypropylene plastic by United Plastic Fabricating, Incorporated.

The tank shall be designed to achieve a low hose bed. Tank design shall be a stepped design with the forward section of the tank higher than the section of the tank that is below the hose bed.

Tank joints and seams shall be nitrogen welded inside and out.

Tank shall be baffled in accordance with the current edition of applicable NFPA standards.

Baffles shall have vent openings at both the top and bottom to permit movement of air and water between compartments.

Longitudinal partitions shall be constructed of .38" polypropylene plastic and shall extend from the bottom of the tank through the top cover to allow for positive welding.

Transverse partitions shall extend from 4.00" off the bottom of the tank to the underside of the top cover.

All partitions shall interlock and shall be welded to the tank bottom and sides.

Tank top shall be constructed of .50" polypropylene. It shall be recessed .38" and shall be welded to the tank sides and the longitudinal partitions.

Tank top shall be sufficiently supported to keep it rigid during fast filling conditions.

Construction shall include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions. Two (2) of the dowels shall be drilled and tapped (.50" diameter, 13.00" deep) to accommodate lifting eyes.

A sump that will be sized dependent on the tank to pump plumbing shall be provided at the bottom of the water tank.

Sump shall include a drain plug and the tank outlet.

Tank shall be installed in a fabricated cradle assembly constructed of structural steel.

Sufficient crossmembers shall be provided to properly support bottom of tank. Crossmembers shall be constructed of steel bar channel or rectangular tubing.

Tank shall "float" in cradle to avoid torsional stress caused by chassis frame flexing. Rubber cushions, .50" thick x 3.00" wide, shall be placed on all horizontal surfaces that the tank rests on.

Stops or other provision shall be provided to prevent an empty tank from bouncing excessively while moving vehicle.

Mounting system shall be approved by the tank manufacturer.

Fill tower shall be constructed of 0.50" polypropylene and shall be a minimum of 8.00" wide x 14.00" long.

Fill tower shall be furnished with a 0.25" thick polypropylene screen and a hinged cover.

An overflow pipe, constructed of 4.00" schedule 40 polypropylene, shall be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle.

SLEEVE PLUMBING THROUGH TANK

Two (2) sleeves shall be provided in the water tank for a 3.00" pipe to the rear.

WATER TANK RESTRAINT

A heavy-duty water tank restraint shall be provided.

HOSE BED

The hose bed shall be fabricated of 0.125"-5052 aluminum with a nominal 38,000 psi tensile strength.

The hose bed shall be as low as practical.

Upper and rear edges of side panels shall have a double break for rigidity, a split tube finish shall not be acceptable.

The upper area at the rear of the hose bed shall be covered with brushed stainless steel to prevent damage to painted surface when hose is removed.

Flooring of the hose bed shall be removable aluminum grating with the top surface corrugated to aid in hose aeration. The grating slats shall be a minimum of 0.50" x 4.50" with spacing between slats for hose ventilation.

A cross divider shall be provided at the front of the hose bed before the tank transitions from the lower section to the upper section. The divider shall run from the top of the side sheet down below the hose bed grating.

The inside of the hose bed shall be painted. The inside of the cargo area above the pump shall be unpainted with a DA sanded finish.

The hose bed interior walls shall be painted to match the lower body color.

Hose bed shall accommodate D.S. 200' of 1.75" preconnected to the rear; 500' 2.5"; 500' 5"; 300' of 2' preconnected.

HOSE BED DIVIDER

Three (3) hosebed dividers shall be furnished for separating hose.

Each divider shall be constructed of a 0.25" brushed aluminum sheet. Flat surfaces shall be sanded for uniform appearance or constructed of brushed aluminum.

Divider shall be fully adjustable by sliding in tracks, located at the front and rear of the hose bed.

Divider shall be held in place by tightening bolts, at each end.

Acorn nuts shall be installed on all bolts in the hose bed which have exposed threads.

HOSE BED HOSE RESTRAINT

The hose in the hose bed shall be restrained by two (2) black nylon Velcro® straps at the top of the hose bed. Each strap shall be permanently attached to a footman loop on one side and shall loop through the footman loop on the opposite side then fasten to itself with hook and loop fabric. One (1) strap shall be approximately one third of the distance from the front of the hose bed and one (1) strap shall be approximately one third of the distance from the rear of the hose bed.

A heavy duty 2" black nylon webbing shall be installed at the rear of the hose bed with seat belt buckles at the top. The seat belt buckles shall be provided with a nylon strap, to connect every set of two buckles, and an attached web strap to allow a single pull release per set of two buckles. At the bottom of the webbing, permanent strap footman loops on the outboard corners and bungee cord and hooks in the center shall be provided. The webbing shall be split into two (2) sections down the center. The webbing shall be provided with hook and loop between each section. If a strap is provided the color shall be orange.

CROSS TUBE REINFORCEMENT, HOSE BED

There shall be one (1) rectangular cross tube mounted high and to the rear above the hosebed. Reinforcement for the cross tube shall be provided on each side sheet to support the tube.

The cross tube shall be painted to match lower job color.

REINFORCED HOSEBED FLOOR

A reinforced hose bed floor shall be provided above the water tank to support the mounting of the light tower in the forward portion of the hose bed. Aluminum treadplate shall cover the floor.

RUNNING BOARDS

Running boards shall be fabricated of .125" bright aluminum treadplate.

Each running board shall be supported by a welded 2.00" square tubing and channel assembly, which shall be bolted to the pump compartment substructure.

Running boards shall be 14.75" deep and spaced .50" away from the pump panel. The front and rear outside corner of the running board shall be finished with a 45 degree corner where it lines up with the body.

A splash guard shall be provided above the running board treadplate.

TAILBOARD

The tailboard shall also be constructed of .125" bright aluminum treadplate and spaced .50" from the body, as well as supported by a structural steel assembly.

The tailboard area shall be 16.00" deep and full width of the body. The outboard sides of the tailboard shall be angled at 45 degrees beginning at the point where the body meets the tailboard at the outboard edge angling rearward to the rear edge of the tailboard.

The exterior side shall be flanged down and in for increased rigidity of tailboard structure.

REAR WALL, SMOOTH ALUMINUM/BODY MATERIAL

The rear facing surfaces of the center rear wall shall be smooth aluminum.

The bulkheads, the surface to the rear of the side body compartments, shall be smooth and the same material as the body.

The rear wall shall be flush.

REAR TOW EYES

Two (2) tow eyes, which are an integral part of the body mounting substructure, shall be installed below the rear of the truck.

The tow eyes shall be of adequate strength to allow the truck to be pulled from the eyes.

REAR HITCH RECEIVER

One (1) hitch receiver shall be installed below the tailboard at the rear of the apparatus.

The hitch shall be constructed of high strength steel and reinforced to the truck framework, via the rear body substructure. The hitch receiver shall have an SAE J684 Class IV rating of 10,000 lb towing and 1000 lb tongue weight.

Slide-in portion shall be held in place by one (1) safety pin with clip.

The trailer electrical connection shall be a no electric connection.

RUNNING BOARD HOSE RESTRAINT

A pair of 2.00" wide black nylon straps with Velcro fasteners shall be provided for each hose tray to secure the hose during travel. Two (2) hose trays shall be located one (1) in each side running board.

HOSE TRAY

Two (2) hose trays shall be made free floating one (1) in each side running board.

The tray(s) shall be flanged and drop in from the top. The front and rear corners at the base of tray shall be tapered. No fasteners shall be used to secure the tray(s).

Capacity of the tray shall be 35' of 5".

Rubber matting shall be installed on the floor of the tray to provide proper ventilation. Drain holes shall be provided.

COMPARTMENTATION

Body and compartments shall be fabricated of 0.125", 5052-H32 aluminum.

Side compartments shall be an integral assembly with the rear fenders.

Circular fender liners shall be provided for prevention of rust pockets and ease of maintenance.

Side compartment flooring shall be of the sweep out design with the floor higher than the compartment door lip.

The side compartment door opening shall be framed by flanging the edges in 1.75" and bending out again 0.75" to form an angle.

Drip protection shall be provided above the doors by means of bright aluminum extrusion, formed bright aluminum treadplate or polished stainless steel.

The top of the compartment shall be covered with bright aluminum treadplate rolled over the edges on the front, rear and outward side. These covers shall have the corners welded.

Side compartment covers shall be separate from the compartment tops.

Front facing compartment walls shall be covered with bright aluminum treadplate.

All screws and bolts which protrude into a compartment shall have acorn nuts on the ends to prevent injury.

UNDERBODY SUPPORT SYSTEM

Due to the severe loading requirements of this pumper a method of body and compartment support suitable for the intended load shall be provided.

The backbone of the support system shall be the chassis frame rails which is the strongest component of the chassis and is designed for sustaining maximum loads.

Forward to the rear axle, the support system shall include "L"-shaped support members bolted to the chassis frame rails. These welded support members shall include vertical formed channels, horizontal structural channels, and support gussets. These parts extend from the chassis frame outward underneath the body.

Rearward to the rear axle, the body support system shall include two rearward facing "L"-shaped support members bolted to the chassis frame rails. These support members shall be connected to the two body supporting crossmembers forming a boxed foundation for the rear body support system.

Steel upper platform decks shall be mounted on the top of these support members to create a floating substructure which shall result in a 500 lb equipment support rating per lower compartment.

All structural components of this system shall be made from high strength 50K steel plate material or structural steel componentry. The steel frames as well as the steel vertical angles shall be treated with an epoxy E-coat or equivalent to provide resistance to corrosion and chemicals as standard.

The floating substructure shall be separated from the horizontal members with neoprene elastomer isolators. These isolators shall reduce the natural flex stress of the chassis from being transmitted to the body.

Isolators shall have a broad load range, proven viability in vehicular applications, be of a fail-safe design and allow for all necessary movement in three (3) transitional and rotational modes.

The neoprene isolators shall be installed in a pattern which assimilates a three (3)-point mounting pattern to reduce the natural flex of the chassis being transmitted to the body.

A design with body compartments hanging on the chassis in an unsupported fashion shall not be acceptable.

AGGRESSIVE WALKING SURFACE

All exterior surfaces designated as stepping, standing, and walking areas shall comply with the required average slip resistance of the current NFPA standards.

LOUVERS

Louvers shall be stamped into compartment walls to provide the proper airflow inside the body compartments and to prevent water from dripping into the compartment. Where these louvers are provided, they shall be formed into the metal and not added to the compartment as a separate plate.

TESTING OF BODY DESIGN

Body structural analysis shall be fully tested. Proven engineering and test techniques such as finite element analysis, strain gauging, and model analysis shall be performed with special attention given to fatigue, life and structural integrity of the body and substructure.

Body shall be tested while loaded to its greatest in-service weight.

The criteria used during the testing procedure shall include:

- Raising opposite corners of the vehicle tires 9.00" to simulate the twisting a truck may experience when driving over a curb.
- Making a 90 degree turn, while driving at 20 mph to simulate aggressive driving conditions.
- Driving the vehicle at 35 mph on a washboard road.
- Driving the vehicle at 55 mph on a smooth road.
- Accelerating the vehicle fully, until reaching the approximate speed of 45 mph on rough pavement.

Evidence of actual testing techniques shall be made available upon request.

LEFT SIDE COMPARTMENTATION

The left side compartmentation shall consist of three lap door compartments.

A full height, vertically hinged, double door compartment ahead of the rear wheels shall be provided. The interior dimensions of this compartment shall be 54.00" wide x 65.13" high x 25.88" deep. The clear door opening shall be a minimum of 47.00" wide x 61.88" high.

A horizontally hinged, single lift-up door compartment over the rear wheels shall be provided. The interior dimensions of this compartment shall be 66.50" wide x 32.88" high x 25.88" deep. The clear door opening shall be a minimum of 59.25" wide x 27.00" high.

A full height, vertically hinged, double door compartment behind the rear wheels shall be provided. The interior dimensions of this compartment shall be 47.75" wide x 66.13" high x 25.88" deep. The clear door opening shall be a minimum of 43.50" wide x 62.88" high.

The interior height of the compartments shall be measured from the compartment floor to the ceiling. The depth of the compartments shall be measured from the back wall to the inside of the door frame.

Closing of the doors shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand.

The vertically hinged doors shall be furnished with a positive door holder.

The lift-up door shall be furnished with two gas-charged cylinders to assist in the opening of the door and to maintain the door in an open position. There shall be a field adjustable, three-position bracket mounted on the vertical side door opening that shall allow the door to be held open at 87°, 90°, or 93°.

RIGHT SIDE COMPARTMENTATION

The right side compartmentation shall consist of three lap door compartments.

A full height, vertically hinged, double door compartment ahead of the rear wheels shall be provided. The interior dimensions of this compartment shall be 54.00" wide x 65.13" high x 25.88" deep. The clear door opening shall be a minimum of 47.00" wide x 61.88" high.

A horizontally hinged, single lift-up door compartment over the rear wheels shall be provided. The interior dimensions of this compartment shall be 66.50" wide x 32.88" high x 25.88" deep. The clear door opening shall be a minimum of 59.25" wide x 27.00" high.

A full height, vertically hinged, double door compartment behind the rear wheels shall be provided. The interior dimensions of this compartment shall be 47.75" wide x 66.13" high x 25.88" deep. The clear door opening shall be a minimum of 43.50" wide x 62.88" high.

The interior height of the compartments shall be measured from the compartment floor to the ceiling. The depth of the compartments shall be measured from the back wall to the inside of the door frame.

Closing of the doors shall not require releasing, unlocking, or unlatching any mechanism and shall easily be accomplished with one hand.

The vertically hinged doors shall be furnished with a positive door holder.

The lift-up door shall be furnished with two gas-charged cylinders to assist in the opening of the door and to maintain the door in an open position. There shall be a field adjustable, three-position bracket mounted on the vertical side door opening that shall allow the door to be held open at 87°, 90°, or 93°.

SIDE COMPARTMENT DOORS

All hinged compartment doors shall be lap style with double panel construction and shall be a minimum of 1.50" thick. The doors shall be made out of the same material as the body. To provide additional door strength a "C" section reinforcement shall be installed between the outer and interior panels.

Doors shall be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core shall be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment.

All compartment doors shall have polished stainless steel continuous hinge with a pin diameter of 0.25" that is bolted or screwed on with stainless steel fasteners. (Hinges which are welded on shall not be acceptable.)

All door locking mechanisms shall be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area.

Doors shall be latched with recessed, polished stainless steel "D" ring handles and FMVSS approved door latching mechanisms.

To prevent corrosion caused by dissimilar metals, compartment door handles shall not be attached to outer door panel with screws. A rubber gasket shall be provided between the "D" ring handle and the door.

REAR COMPARTMENTATION

A compartment are above the rear tailboard shall be provided. Interior dimensions of this area shall be 40.00" wide x 33.63" high x 25.88" deep.

This area shall be split in half with a vertical partition. The right side of the compartment shall be open with no door for rear plumbing connections. The left side half of this area shall have a vertically hinged double pan door. The vertically hinged compartment door shall be provided with a positive door holder.

A louvered, removable access panel shall be furnished on the back wall of the compartment.

REAR COMPARTMENT DOORS

All hinged compartment doors shall be lap style with double panel construction and shall be a minimum of 1.50" thick. To provide additional door strength, a "C" section reinforcement shall be installed between the outer and interior panels.

Doors shall be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core shall be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment.

All compartment doors shall have polished stainless steel continuous hinge with a pin diameter of 0.25", that is bolted or screwed on with stainless steel fasteners. (Hinges which are welded on shall not be acceptable.) A strip of dielectric isolation tape shall be provided between the hinge and door jamb.

All door lock mechanisms shall be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area.

Doors shall be latched with recessed, polished stainless steel "D" ring handles and FMVSS approved door latching mechanisms.

To prevent corrosion caused by dissimilar metals, compartment door handles shall not be attached to outer door panel with screws. A rubber gasket shall be provided between the "D" ring handle and the door.

COMPARTMENT LIGHTING

There shall be seven (7) compartments with LED compartment light strips. The strips shall be centered vertically along each side of the door framing. The compartments with these strip lights shall be located all body compartment doors.

Opening the compartment door shall automatically turn the compartment lighting on.

HATCH COMPARTMENT

Two (2) hatch compartments shall be provided above the left and right side compartments.

Each hatch compartment shall extend the full length of the side body compartmentation x 27.75" wide. The height of each hatch compartment shall match the side sheet height.

Sides of the compartment shall be constructed of the same material as the body and painted job color. A chrome and black vinyl molding shall be provided to cover the seam between the top of the body panel and the bottom of the hatch compartment. The vertical outboard seam at the center of the compartment shall be smooth weld finished and painted. The top of the compartment shall be constructed of bright aluminum treadplate.

Two (2) lift-up, bright aluminum treadplate doors shall be provided on the top of the compartment. Doors shall have lipped edges with a rubber seal for weather resistance. Each door shall have a lever handle with a slam style latch. Doors shall be hinged on the outboard side and shall utilize a gas strut (or rubber covered chain on narrow width doors)

Compartment shall drain to an area below the hose bed. Black rubber matting shall be provided to help prevent stored equipment in pooled water.

COMPARTMENT LIGHTING

There shall be a 42.00" 12 volt DC strip light with white LEDs mounted on the interior, hinged side of each door. The lights shall be mounted with mechanical fasteners.

The lights shall be activated when the battery switch is on and the door is opened.

MOUNTING TRACKS

There shall be six (6) sets of tracks for mounting shelf(s) in LS1, LS2, LS3, RS1, RS2 and RS3. These tracks shall be installed vertically to support the adjustable shelf(s). The tracks shall be painted to match the compartment interior.

ADJUSTABLE SHELVES

There shall be four (4) shelves with a capacity of 500 lb provided.

The shelf construction shall consist of .188" aluminum painted spatter gray with 2.00" sides.

Each shelf shall be infinitely adjustable by means of a threaded fastener, which slides in a track.

The shelves shall be held in place by .12" thick stamped plated brackets and bolts.

The location(s) shall be in RS2 centered between the floor and the ceiling, in RS1 in the lower third to the left of the partition, in RS3 in the lower third to the left of the partition and in LS1 in the lower third to the right of the partition.

SLIDE-OUT ADJUSTABLE HEIGHT TRAY

There shall be one (1) slide-out tray provided.

Each tray shall have 2.00" high sides and a minimum capacity rating of 500 lb in the extended position.

Each tray shall be constructed of aluminum painted spatter gray.

Each tray shall be mounted on a pair of side mounted slides. The slide mechanisms shall have ball bearings for ease of operation and years of dependable service. The slides shall be mounted to shelf tracks to allow the tray to be adjustable up and down within the designated mounting location.

An automatic lock shall be provided for both the in and out tray positions. The lock trip mechanism shall be located at the front of the tray and shall be easily operated with a gloved hand.

The location(s) shall be in LS3 centered between the floor and ceiling to left of the partition

SLIDE-OUT/TILT-DOWN TRAY

There shall be four (4) slide-out trays provided.

The bottom of each tray shall be constructed of 0.188" thick aluminum painted spatter gray while special aluminum extrusions shall be utilized for the tray sides, ends, and tracks. The corners shall be welded to form a rigid unit.

A spring loaded lock shall be provided on each side at the front of the tray. Releasing the locks shall allow the tray to slide out approximately two-thirds (2/3) of its length from the stowed position and tip 30 degrees down from horizontal. The tray shall be equipped with ball bearing rollers for smooth operation.

Rubber padded stops shall be provided for the tray in the extended position.

The capacity rating of the tray shall be a minimum of 215 lb in the extended position.

The vertical position of the tray within the compartment shall be adjustable.

The location(s) shall be in RS1 in the upper third to the left of the partition, in RS3 in the upper third to the left of the partition, in LS2 centered between the floor and ceiling and in LS1 in the lower third to the right of the partition.

SLIDE-OUT FLOOR MOUNTED TRAY

There shall be five (5) floor mounted slide-out tray(s) provided.

Each tray shall have 2.00" high sides and a minimum capacity rating of 500 lb in the extended position.

Each tray shall be constructed of aluminum painted spatter gray.

There shall be two undermount-roller bearing type slides rated at 250 lb each provided. The pair of slides shall have a safety factor rating of 2.

To ensure years of dependable service, the slides shall be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117.

To ensure years of easy operation, the slides shall require no more than a 50lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under full load. The vibration drive file shall have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance shall be provided upon request.

Automatic locks shall be provided for both the "in" and "out" positions. The trip mechanism for the locks shall be located at the front of the tray for ease of use with a gloved hand.

The location(s) shall be RS1 to the right of the partition, RS3 (2nd tray, side by side), RS3 to the right of the partition, RS3 to the left of the partition and LS1 to the left of the partition.

DRAWER ASSEMBLY

A slide-out drawer assembly shall be installed LS3 left of partition.

The clear dimensions of the first drawer starting at the top shall be 3.00" with a face plate that is 4.00" high x 21.00" deep. The clear dimensions of the second drawer shall be 5.75" with a face plate that is 6.00" high x 21.00" deep. The clear dimensions of the third drawer shall be 9.75" with a face plate that is 10.00" high x 21.00" deep. Each drawer shall be the same width and not exceed 36.00".

The drawers shall have a capacity of 250 lb.

The drawers shall be mounted in a cabinet housing constructed of light gray powder coated aluminum with anodized aluminum frames. The housing shall be 24.00" deep, and completely enclose the drawer.

A full-length aluminum extruded rail shall be provided at the top edge of each drawer. This rail shall act as the latching mechanism as well as the handle for each drawer.

There shall be a total of one (1) provided.

TOOL BOARD

An aluminum tool board shall be provided.

It shall be a minimum of .188" thick.

A 1.00" x 1.00" aluminum tube frame shall be welded to the edge of the board. A handhold shall be provided.

The board shall be installed on adjustable tracks on a slide out tray. The tracks shall allow side to side adjustment. The board shall be as high as space permits and full length of the tray. The tray is not included in this option.

There shall be Four (4) toolboard(s) provided, spatter gray painted , and installed two (2) RS3, both trays to the right of the partition, one (1) RS1, to the right of the partition, One (1) LS1 to the left of the partition..

SLIDE OUT TOOLBOARD

A slide out aluminum toolboard shall be provided.

It shall be a minimum of .188" thick.

A 1.00" x 1.00" aluminum tube frame shall be welded to the edge of the pegboard. A handhold cutout shall be provided on the outboard edge of the toolboard.

The board shall be mounted on an undermount - roller bearing type slide rated at 250lbs with a 100% safety factor.

To ensure years of dependable service the slides shall be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117.

To ensure years of easy operation, the slides shall also be able to operated smoothly without bumps or sticky spots after a 40 hour vibrations test (reference MIL-STD 810E section 514.4 basic transportation vibration category 1) while fully loaded. Proof of compliance shall be provided upon request.

The slide shall be mounted mounted on adjustable tracks side to side within the compartment.

The board shall have positive lock in the stowed and extended position.

One (1) toolboard(s) shall be provided, spatter gray painted, and installed LS3, to the right of the partition above the Toolbox.

VERTICAL COMPARTMENT PARTITION

Four (4) partitions shall be provided.

The partition construction shall consist of body material painted spatter gray. Each partition shall be the full vertical height of the compartment.

The location(s) shall be in LS1, centered from left to right in the door frame, in LS3, centered from left to right in the door frame, in RS1, centered from left to right in the door frame and in RS3, centered from left to right in the door frame.

RUB RAIL

Bottom edge of the side compartments shall be trimmed with a bright aluminum extruded rub rail.

Trim shall be 2.12" high with 1.38" flanges turned outward for rigidity.

The rub rails shall not be an integral part of the body construction, which allows replacement in the event of damage.

BODY FENDER CROWNS

Polished stainless steel fender crowns shall be provided around the rear wheel openings with a dielectric barrier shall be provided between the fender crown and the fender sheet metal to prevent corrosion. These fender crowns must be wide enough to prevent splashing onto the body from the specified tires.

The fender crowns shall be held in place with stainless steel screws that thread directly into a composite nut and not directly into the parent body sheet metal to eliminate dissimilar metals contact and greatly reduce the chance for corrosion. Rubber welting shall be provided between the body and crown.

BODY FENDER LINER

A aluminum painted to match the lower body color fender liner shall be provided. The liners shall be removable to aid in the maintenance of rear suspension components.

HARD SUCTION HOSE

Hose is not on the apparatus as manufactured. The fire department shall provide suction or supply hose.

There shall be Two (2) lengths of 10' long x 6.00" diameter hose provided and equipped with long handle couplings provided on the ends.

HOSE TROUGH

A quantity of two (2) hard suction hose troughs shall be provided inside the hatch compartment, mounted side by side, located on the right side.

Troughs shall be constructed of stainless steel.

One (1) smooth aluminum door with a D-handle latch hinged on the right side, shall be provided at the rear of the compartment.

a removable aluminum floor above the length of the hard suction hose and a vertical partition the height of the compartment is provided in relation to the hard suction hose in the hatch compartment to allow for storage of additional equipment.

HANDRAILS

The handrails shall be 1.25" diameter knurled aluminum to provide a positive gripping surface.

Chrome plated end stanchions shall support the handrail. Plastic gaskets shall be used between end stanchions and any painted surfaces.

Drain holes shall be provided in the bottom of all vertically mounted handrails.

Handrails shall be provided to meet current edition of applicable NFPA standards. The handrails shall be installed as noted on the sales drawing.

HANDRAILS

One (1) vertical handrail shall be located on each rear beavertail.

HANDRAIL

One (1) horizontal black rubber-covered aluminum handrail shall be provided above the hose bed at the rear of the apparatus. The hose bed dividers shall be tied to the upper handrail or cross bar in order to provide sufficient reinforcement.

AIR BOTTLE STORAGE (DOUBLE)

A quantity of one (1) air bottle compartment, 15.25" wide x 7.75" tall x 26.00" deep, shall be provided on the left side rearward of the rear wheels. The triangular door to cover the double air bottle opening and the fuel tank access. A brushed stainless steel door with a Southco raised trigger C2 black lever latch shall be provided to contain the air bottle. A dielectric barrier shall be provided between the door hinge, hinge fasteners and the body sheet metal.

Inside the compartment, black rubber matting shall be provided.

AIR BOTTLE COMPARTMENT STRAP

A strap shall be provided in the air bottle compartment to help contain the air bottle when the vehicle is parked on an incline. The strap shall wrap around the neck and attach to the wall of the compartment.

AIR BOTTLE STORAGE (TRIPLE)

A quantity of two (2) air bottle compartments designed to hold (3) air bottles up to 7.25" in diameter x 26.00" deep shall be provided on the right side forward of the rear wheels and on the right side rearward of the rear wheels. A brushed stainless steel door with a Southco raised trigger C2 black lever latch shall be provided to contain the air bottle. A dielectric barrier shall be provided between the door hinge, hinge fasteners and the body sheet metal.

Inside the compartment, black rubber matting shall be provided.

Air Bottle Compartment Strap

A strap shall be provided in the air bottle compartment(s) to help contain the air bottles when the vehicle is parked on an incline. The strap shall wrap around the neck and attach to the wall of the compartment.

OIL DRY HOPPER

A slide-out compartment for storage of oil absorbent material shall be provided in the fender panel.

The oil hopper bin shall slide in and out on a track located inside this fender panel compartment. A chute for dispensing the material shall be provided on the bottom of the bin. The absorbent material shall discharge at the bottom of the bin, only when the compartment is extended outside of the vehicle. A chrome grab handle shall be provided on the bin to slide the bin out of the fender compartment.

An aluminum treadplate fill cover shall be provided on top of the hopper bin.

This hopper shall have an approximate capacity of 50 lb or 8.4 gallons (1950 cubic inch) of absorbent material.

A brushed stainless steel door with Southco C2 black powder coated raised trigger latch shall be provided on the exterior of the compartment. A dielectric barrier shall be provided between the door hinge, hinge fasteners and the body sheet metal.

A quantity of one (1) oil dry hopper(s) shall be provided. The hopper(s) shall be located in the DS Forward fender fender panel.

EXTENSION LADDER

There shall be a 24' two-section aluminum Duo-Safety Series 900-A extension ladder provided.

ROOF LADDER

There shall be a 14' aluminum Duo-Safety Series 775-A roof ladder provided.

LADDER STORAGE

The ladders shall be stored in a tunnel through the water tank and accessed at the rear. The ladders to be stored shall not be longer than the body / water tank length so as not to extend into the pump compartment where they could potentially interfere with plumbing and pump controls.

This storage area shall not reduce the capacity of the water tank (as stated elsewhere in this specification) unless the addition of this option causes the water tank to reach its maximum design parameters (size) for the configuration in which it is installed. Once maximum dimensions are met, then water capacity of the tank shall be reduced as needed.

Ladder shall be stored horizontally stacked and stored individually.

Ladders shall be secured from moving forward during travel.

Rear of ladder storage area shall have a(n) smooth aluminumlift up door with two (2) stay arms with a D-handle latch for access to the ladders.

FOLDING LADDER

One (1) 10' aluminum, Series 585-A, Duo-Safety folding ladder shall be installed in a U-shaped trough inside the ladder storage compartment.

PIKE POLE PROVIDED BY FIRE DEPARTMENT

The pike poles are not on the apparatus as manufactured. The fire department shall provide and mount the pike poles.

There shall be one (1) pike pole(s) provided. The pike pole(s) shall be a Fire Hooks Unlimited 10' all purpose hook model APH-10.

6' PIKE POLE PROVIDED BY FIRE DEPARTMENT

The pike pole is not on the apparatus as manufactured. The fire department shall provide and mount the pike poles.

There shall be one (1) 6' pike pole(s) provided. The pike pole(s) shall be a Fire Hooks Unlimited 6' all purpose hook model APH-6.

PIKE POLE STORAGE

Aluminum tubing shall be used for the storage of two (2) pike poles and shall be located ladder storage. If the head of a pike pole can come in contact with a painted surface, a stainless steel scuffplate shall be provided. The pike pole tube shall be notched to allow a New York style pike pole to fit into the tube.

FOLDING STEPS FRONT OF BODY

Folding steps shall be provided full height on the left side and right side body compartments to provide access to the cargo bed. Steps shall be spaced evenly on the sales drawing. Actual quantity may vary due to pump panel interferences but shall meet the NFPA required maximum stepping height.

The Trident steps shall be bright finished, non-skid with a black tread coating on the stepping surface.

The steps can be used as a hand hold with two openings wide enough for a gloved hand.

REAR FOLDING STEPS

Bright finished, non-skid folding steps with a black tread coating on the stepping surface shall be provided at the rear. The steps can be used as a hand hold with two openings wide enough for a gloved hand.

PUMP COMPARTMENT

The pump compartment shall be separate from the hose body and compartments so that each may flex independently of the other. The pump compartment shall be constructed of the same material as the body compartmentation.

The pump compartment substructure shall be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards.

The pump compartment shall be mounted on the chassis frame rails with rubber biscuits in a four point pattern to allow for chassis frame twist.

Pump compartment, pump, plumbing and gauge panels shall be removable from the chassis in a single assembly.

PUMP MOUNTING

Pump shall be mounted to a substructure which shall be mounted to the chassis frame rail using rubber isolators. The mounting shall allow chassis frame rails to flex independently without damage to the fire pump.

LEFT SIDE PUMP CONTROL PANELS

All pump controls and gauges shall be located at the left side of the apparatus and properly identified.

Layout of the pump control panel shall be ergonomically efficient and systematically organized.

The pump operator's control panel shall be removable in two (2) main sections for ease of maintenance:

The upper section shall contain sub panels for the mounting of the pump pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable). Sub panels shall be removable from the face of the pump panel for ease of maintenance. Below the sub panels shall be located all valve controls and line pressure gauges.

The lower section of the panel shall contain all inlets, outlets, and drains.

All push/pull valve controls shall have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods shall be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls shall be capable of locking in any position. The control rods shall pull straight out of the panel and shall be equipped with universal joints to eliminate binding.

IDENTIFICATION TAGS

The identification tag for each valve control shall be recessed in the face of the tee handle.

All discharge outlets shall have color coded identification tags, with each discharge having its own unique color. Color coding shall include the labeling of the outlet and the drain for each corresponding discharge.

All line pressure gauges shall be mounted directly above the corresponding discharge control tee handles and recessed within the same chrome plated casting as the rod guide for quick identification. The gauge and rod guide casting shall be removable from the face of the pump panel for ease of maintenance. The casting shall be color coded to correspond with the discharge identification tag.

All remaining identification tags shall be mounted on the pump panel in chrome plated bezels.

The pump panel on the right side shall be removable with lift and turn type fasteners.

Trim rings shall be installed around all inlets and outlets.

HEAT ENCLOSURE

An aluminum heat enclosure shall be installed around the four sides and bottom of the pumphouse. The enclosure shall aid in trapping hot air radiated from the engine exhaust system to help in warming the interior of the pumphouse. The enclosure shall consist of an aluminum understructure.

At the front and rear of the pumphouse above the frame rails shall be an aluminum sheet to aid in trapping hot air in the pumphouse.

At the front and rear of the pumphouse between frame rails a rubber curtain shall be used to aid in trapping hot air.

Rubber seals shall be used on the rear and front on the enclosure where plumbing passes through. The rubber shall aid in retaining heat within the pumphouse.

There shall be removable aluminum panels secured with spring loaded "T" handle with hood hooks at the underside of the structure.

PUMP

Pump shall be a Waterous CSU, 1500 gpm single (1) stage midship mounted centrifugal type.

Pump shall be the class "A" type.

Pump shall deliver the percentage of rated discharge at pressures indicated below:

- 100 percent of rated capacity at 150 psi net pump pressure.
- 70 percent of rated capacity at 200 psi net pump pressure.
- 50 percent of rated capacity at 250 psi net pump pressure.

Pump body shall be close-grained gray iron, bronze fitted, and horizontally split in two (2) sections for easy removal of the entire impeller shaft assembly (including wear rings).

Pump shall be designed for complete servicing from the bottom of the truck, without disturbing the pump setting or apparatus piping.

Pump case halves shall be bolted together on a single horizontal face to minimize chance of leakage and facilitate ease of reassembly. No end flanges shall be used.

Discharge manifold of the pump shall be cast as an integral part of the pump body assembly and shall provide a minimum of three (3) 3.50" openings for flexibility in providing various discharge outlets for maximum efficiency.

The three (3) 3.50" openings shall be located as follows: one (1) outlet to the right of the pump, one (1) outlet to the left of the pump, and one (1) outlet directly on top of the discharge manifold.

Impeller shaft shall be stainless steel, accurately ground to size. It shall be supported at each end by sealed, anti-friction ball bearings for rigid precise support. Impeller shall have flame

plated hubs assuring maximum pump life and efficiency despite any presence of abrasive matter in the water supply.

Bearings shall be protected from water and sediment by suitable stuffing boxes, flinger rings, and oil seals. No special or sleeve type bearings shall be used.

Pump shall be equipped with a self-adjusting, maintenance-free, mechanical shaft seal.

The mechanical seal shall consist of a flat, highly polished, spring fed carbon ring that rotates with the impeller shaft. The carbon ring shall press against a highly polished stainless steel stationary ring that is sealed within the pump body.

In addition, a throttling ring shall be pressed into the steel chamber cover, providing a very small clearance around the rotating shaft in the event of a mechanical seal failure. The pump performance shall not deteriorate, nor shall the pump lose prime, while drafting if the seal fails during pump operation.

Wear rings shall be bronze and easily replaceable to restore original pump efficiency and eliminate the need to replace the entire pump casing due to wear.

PUMP TRANSMISSION

The pump transmission shall be made of a three (3) piece, aluminum, horizontally split casing. Power transfer to pump shall be through a high strength Morse HY-VO silent drive chain. By using a chain rather than gears, 50 percent of the sprocket shall be accepting or transmitting torque, compared to two (2) or three (3) teeth doing all the work.

Drive shafts shall be 2.35" diameter hardened and ground alloy steel and supported by ball bearings. The case shall be designed to eliminate the need for water cooling.

PUMPING MODE

An interlock system shall be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. The interlock system shall be designed to allow stationary pumping only.

AIR PUMP SHIFT

Pump shift engagement shall be made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. A manual back-up shift control shall also be located on the left side pump panel.

Two (2) indicator lights shall be provided adjacent to the pump shift inside the cab. One (1) green light shall indicate the pump shift has been completed and be labeled "pump engaged". The second green light shall indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light shall be labeled "OK to pump".

The pump shift shall be interlocked to prevent the pump from being shifted out of gear when the chassis transmission is in gear to meet NFPA requirements.

The pump shift control in the cab shall be illuminated to meet NFPA requirements.

TRANSMISSION LOCK-UP

The direct gear transmission lock-up for the fire pump operation shall engage automatically when the pump shift control in the cab is activated.

AUXILIARY COOLING SYSTEM

A supplementary heat exchange cooling system shall be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The heat exchanger shall be a separate unit. It shall be installed in the pump or engine compartment with the control located on the pump operator's control panel. The exchanger shall be plumbed to the master drain valve.

INTAKE RELIEF VALVE - PUMP

One (1) Elkhart Style 40 relief valve(s) shall be installed on the suction side of the pump preset at 125 psig.

The relief valve(s) shall have a working range of 75 psi to 250 psi.

The outlet shall terminate below the frame rails with a 2.50" National Standard hose thread adapter and shall have a "do not cap" warning tag.

The relief valve pressure control shall be located behind the right side pump panel with a stainless steel access door.

PRESSURE CONTROLLER

A FRC Pump Boss 500 electronic pressure controller with one (1) 600 PSI transducer on the pump discharge shall be provided. All readouts shall be standard PSI.

When a single 300 psi or single 600 psi pressure transducer is selected the transducer is installed in the discharge side of the water pump. The transducer continuously monitors pump pressure sending a signal to the electronic pressure controller.

When a dual 600 psi pressure transducer is selected the transducer are installed in the discharge side and intake side of the water pump. The discharge transducer continuously monitors pump pressure sending a signal to the electronic pressure controller. The intake transducer continuously monitors the pump intake sending a signal to the electronic pressure controller.

The pressure controller can be used in two (2) modes of operation, RPM mode and pressure modes. The controller shall be programmed to turn on/default to RPM Setting mode.

In RPM mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller shall maintain the set engine speed, regardless of engine load (within engine operation capabilities).

In pressure mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller shall automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow.

A 2.00" diameter throttle control knob with no mechanical stops, a serrated grip, and a red idle push button in the center shall be a integrated/part of the pressure controller. The throttle control knob shall be programmed for Clockwise rotation to increase engine speed.

Individual LED indicators for ok to pump, throttle ready, pressure mode and rpm mode shall be located on the pressure controller for easy viewing.

Safety features include recognition of low water and no water conditions with an automatic programmed response and a push button to return the engine to idle.

An additional audible alarm shall NOT BE provided.

The pressure controller screen shall be LCD. The LCD screen and LED intensity shall be automatically adjust for day and nighttime operation. The LCD screen intensity can also be manually adjusted if needed.

The following information shall be provided/displayed on the LCD screen:

- Engine RPM
- Check engine and stop engine warning indicators
- Engine oil pressure
- Engine coolant temperature
- Transmission Temp
- Battery voltage
- Operating mode (RPM or pressure)
- Pressure or RPM setting

On screen messaging show diagnostic and warning messages as they occur. It shall show apparatus information, stored data, and program options when selected by the operator. It shall monitor inputs outputs and support audible and visual warning alarms for the following conditions:

- High battery voltage
- Low battery voltage/engine off
- Low battery voltage/engine running
- High water pump temperature
- Low engine oil pressure
- High engine coolant temperature
- No engine response (visual alarm only)

The pressure controller shall store the accumulated operating hours for the pump and engine. These items are to be displayed within the pressure controller menu.

The pressure controller shall include a USB port on the back of the controller for easy software upgrades if needed.

PRIMING PUMP

The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multistage venturi based AirPrime System, conforming to the current edition of applicable NFPA standards.

All wetted metallic parts of the priming system are to be of brass and stainless steel construction.

One (1) priming control shall open the priming valve and start the pump primer.

A second priming valve shall be plumbed to the rear suction piping. The second push button control shall be located at the pump operator's panel.

PUMP MANUALS

There shall be a total of two (2) pump manuals provided by the pump manufacturer and furnished with the apparatus. The manuals shall be provided by the pump manufacturer in the form of two (2) electronic copies. Each manual shall cover pump operation, maintenance, and parts.

PLUMBING, STAINLESS STEEL AND HOSE

All inlet and outlet lines shall be plumbed with either stainless steel pipe, flexible polypropylene tubing or synthetic rubber hose reinforced with hi-tensile polyester braid. All hose's shall be equipped with brass or stainless steel couplings. All stainless steel hard plumbing shall be a minimum of a schedule 10 wall thickness.

Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping shall be equipped with victaulic or rubber couplings.

Plumbing manifold bodies shall be ductile cast iron or stainless steel.

All piping lines are to be drained through a master drain valve or shall be equipped with individual drain valves. All drain lines shall be extended with a hose to drain below the chassis frame.

All water carrying gauge lines shall be of flexible polypropylene tubing.

All piping, hose and fittings shall have a minimum of a 500 PSI hydrodynamic pressure rating.

FOAM SYSTEM PLUMBING

All piping that is in contact with the foam concentrate or foam/water solution shall be stainless steel. The fittings shall be stainless steel or brass. Cast iron pump manifolds will be allowed.

MAIN PUMP INLETS

A 6.00" pump manifold inlet shall be provided on each side of the vehicle. The suction inlets shall include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.

MAIN PUMP INLET CAP

The main pump inlets shall have National Standard Threads with a long handle chrome cap.

The cap shall incorporate a thread design to automatically relieve stored pressure in the line when disconnected (no exception).

VALVES

All ball valves shall be Akron® Brass in-line valves. The Akron valves shall be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve.

Valves shall have a **ten (10) year** warranty.

The location of the valve for the one (1) inlet shall be recessed behind the pump panel.

INLET CONTROL

The side auxiliary inlet(s) shall incorporate a quarter-turn ball valve with the control located at the inlet valve. The valve operating mechanism shall indicate the position of the valve.

LEFT SIDE INLET

There shall be one (1) auxiliary inlet with a 2.50" valve at the left side pump panel, terminating with a 2.50" (F) National Standard hose thread adapter.

The auxiliary inlet shall be provided with a strainer, chrome swivel and plug.

ANODE, INLET

A pair of sacrificial zinc anodes shall be provided in the water pump inlets to protect the pump from corrosion.

LARGE DIAMETER REAR INLET

A 6.00" inlet rear inlet with screen shall be provided using 5.00" stainless steel piping and a 5.00" butterfly valve.

Screen shall provide cathodic protection against corrosion in piping.

Piping shall contain only large radiused elbows, no mitered joints.

The plumbing shall be routed to the rear through the water tank and through the rear compartment. The inlet shall terminate at the back of the truck to the right of the rear compartment door opening. Piping shall be connected to the right side main inlet side of the pump.

A bleeder valve shall be located at the threaded connection. The quarter turn rotary drain valve control shall be located at the rear.

REAR INLET CONTROL

The rear inlet shall be gated with an electric operated control at the pump operator's panel. The control shall be momentary to allow the valve to be gated for ease of operation. Indicator lights shall be provided to show if the valve is open or closed.

REAR INLET CAP

The rear inlet shall have a National Standard hose thread adapter with a long handle chrome plated cap.

The cap shall incorporate a thread design to automatically relieve stored pressure in the line when disconnected (no exception).

REAR INLET INTAKE RELIEF VALVE

An Elkhart Brass Style 40 intake pressure relief valve shall be provided on the inlet side of the valve preset at 125 psig .

The pressure relief valve shall be adjustable from 75 to 250 psi.

The outlet shall be 2.50" National Standard hose thread and terminate below the frame rails and shall have a "do not cap" warning tag near the discharge outlet.

INLET BLEEDER VALVE

A 0.75" bleeder valve shall be provided for each side gated inlet.

The valves shall be located behind the panel with a "T" swing style handle control extended to the outside of the panel.

The handles shall be chrome plated and provide a visual indication of valve position. The swing handle shall provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage.

The water discharged by the bleeders shall be routed below the chassis frame rails.

TANK TO PUMP

The booster tank shall be connected to the intake side of the pump with stainless steel piping and a quarter turn 3.00" full flow line valve with the control remotely located at the operator's panel. Tank to pump line shall run straight (no elbows) from the pump into the front face of the

water tank and angle down into the tank sump. A rubber coupling shall be included in this line to prevent damage from vibration or chassis flexing.

A check valve shall be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.

TANK REFILL

A 1.50" combination tank refill and pump re-circulation line shall be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.

DISCHARGE OUTLET CONTROLS

The discharge outlets shall incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism shall indicate the position of the valve.

If a handwheel control valve is used, the control shall be a minimum of a 3.90" diameter stainless steel handwheel with a dial position indicator built into the center of the handwheel.

Any 3.00 inch or larger discharge valve shall be a slow-operating valve to meet current edition of applicable NFPA standards.

LEFT SIDE DISCHARGE OUTLETS

One (1) discharge outlet with a 2.50" valve shall be provided on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.

LEFT SIDE OUTLET ELBOWS

The 2.50" discharge outlets located on the left side pump panel shall be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow shall incorporate a thread design to automatically relieve stored pressure in the line when disconnected (no exception).

RIGHT SIDE DISCHARGE OUTLET

One (1) discharge outlet with a 2.50" valve shall be provided on the right side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.

RIGHT SIDE OUTLET ELBOWS

The 2.50" discharge outlets located on the right side pump panel shall be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow shall incorporate a thread design to automatically relieve stored pressure in the line when disconnected (no exception).

LARGE DIAMETER DISCHARGE OUTLET

There shall be an Akron 8800 4.00" flat ball valve with 4.00" plumbing terminating with a 4.00" MNST chrome adapter on the right side pump panel.

The valve shall be controlled with a large handwheel with indicator located at the pump operator's panel.

LARGE DIAMETER OUTLET ELBOWS

The 4.00" outlet(s) shall be furnished with one (1) 4.00" (F) National Standard hose thread x 5.00" Storz elbow adapter with Storz cap.

FRONT DISCHARGE OUTLET

There shall be one (1) 1.50" discharge outlet piped to the front of the apparatus and located in front bumper tray as far to the Right as possible.

Plumbing shall consist of 2.00" piping and flexible hose with a 2.00" ball valve with control at the pump operator's panel. A fabricated weldment made of stainless steel pipe shall be used in the plumbing where appropriate. The piping shall terminate with a 1.50" NST with 90 degree stainless steel swivel.

There shall be Class 1 quarter turn round handle drains provided at all low points of the piping.

REAR DISCHARGE OUTLET

There shall be Two (2) discharge outlets piped to the rear of the hose bed, one (1) each side, installed so proper clearance is provided for spanner wrenches or adapters. Plumbing shall consist of 2.50" piping along with a 2.50" full flow ball valve with the control from the pump operator's panel.

REAR OUTLET ELBOWS

The 2.50" discharge outlets located at the rear of the apparatus shall be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow.

The elbow shall incorporate a thread design to automatically relieve stored pressure in the line when disconnected (no exception).

DISCHARGECAPS/ INLET PLUGS

Chrome plated, rocker lug, caps with vinyl covered cables shall be furnished for all discharge outlets 1.00" thru 3.00" in size, besides the pre-connected hose outlets.

Chrome plated, rocker lug, plugs with vinyl covered cables shall be furnished for all auxiliary inlets 1.00" thru 3.00" in size.

The caps and plugs shall incorporate a thread design to automatically relieve stored pressure in the line when disconnected (no exception).

OUTLET BLEEDER VALVE

A 0.75" bleeder valve shall be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application.

The valves shall be located behind the panel with a T swing style handle control extended to the outside of the side pump panel.

The handles shall be chrome plated and provide a visual indication of valve position.

The T swing handle shall provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage.

Bleeders shall be located at the bottom of the pump panel. They shall be properly labeled identifying the discharge they are plumbed in to.

The water discharged by the bleeders shall be routed below the chassis frame rails.

DISCHARGE DRAIN VALVES

Provide a manual style drain in all low plumbing points that would normally have automatic drains.

DELUGE RISER

A 3.00" deluge riser shall be installed above the pump in such a manner that a monitor can be mounted and used effectively. Piping shall be installed securely so no movement develops when the line is charged. The riser shall be gated and controlled at the pump operator's panel. The outlet shall include an Akron valve with a handwheel control.

MONITOR

An Akron Model 3431 Apollo Hi-Riser monitor shall be properly installed on the deluge riser.

Included shall be a fixed mounting base.

The monitor shall be painted as provided by monitor manufacturer .

NOZZLE, DELUGE

Akron model #2499 Quad Stacked pyrolite deluge tips shall be provided.

The tip sizes shall be 1.375", 1.50", 1.75", and 2.00".

This shall include an Akron 3488 pyrolite stream shaper.

The deluge riser shall have male National Pipe Threads for mounting the monitor.

CROSSLAY HOSE BEDS

Two (2) crosslays with 1.50" outlets shall be provided. Each bed to be capable of carrying 200' of 1.75" double jacketed hose and shall be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve.

Outlets to be equipped with a 1.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus.

The crosslay controls shall be at the pump operator's panel.

The center crosslay dividers shall be fabricated of 0.25" aluminum and shall provide adjustment from side to side. The divider shall be unpainted with a brushed finish.

Vertical scuffplates,constructed of polished stainless steel shall be provided at the front and rear ends of the bed on each side of vehicle.

Crosslay bed flooring shall consist of removable perforated brushed aluminum.

CROSSLAY HOSE RESTRAINT

A 2.00" black nylon webbing design restraint shall be provided at each of the ends of two (2) crosslay(s) to secure the hose during travel. The webbing assembly is to be attached at the bottom of the crosslays, with footman loops and a permanent attachment, and is to attach at the top outside corners with seat belt buckles. The female end of the seat buckle shall be permanently attached at the top corner of the opening. A bar shall be attached to the female ends of the seat belt buckles to allow a single pull release. A single orange nylon strap shall be attached to the bar for releasing the buckles on the webbing.

CROSSLAY/DEADLAY HOSE RESTRAINT

The crosslay/deadlay hosebed(s) shall have two (2) 2.00" wide black nylon straps with Velcro fasteners provided across the top to secure the hose during travel. The straps shall extend from the front to back across the top of the hosebed(s).

FOAM PROPORTIONER

A foam proportioning system shall be provided that is an on demand, automatic proportioning, single point, direct injection system suitable for all types of Class A and B foam concentrates, including the high viscosity (6000 cps), alcohol resistant Class B foams. Operation shall be based on direct measurement of water flow, and remain consistent within the specified flows and pressures. The system shall automatically proportion foam solution at rates from 0.1 percent to 3 percent regardless of variations in water pressure and flow, up to the maximum rated capacity of the foam concentrate pump.

The design of the system shall allow operation from draft, hydrant, or relay operation.

System Capacity

The system shall have the ability to deliver the following minimum foam solution flow rates at accuracies that meet or exceed NFPA requirements at a pump rating of 150 psi.

- 100 gpm @ 3 percent
- 300 gpm @ 1 percent
- 600 gpm @ 0.5 percent

Class A foam setting in 0.1 percent increments from 0.1 percent to 1 percent. Typical settings of 1 percent, 0.5 percent and 0.3 percent (maximum capacity shall be limited to the plumbing and water pump capacity).

Control System

The system shall be equipped with a digital electronic control display located on the pump operators panel. Push button controls shall be integrated into the panel to turn the system on/off, control the foam percentage, and to set the operation modes.

The percent of injection shall have a preset. This preset can be changed at the fire department as desired. The percent of injection shall be able to be easily changed at the scene to adjust to changing demands.

Three (3) .50 tall LEDs shall display the foam percentage in numeric characters. Three (3) indicator LEDs shall also be included, one (1) green, one (1) red, and one (1) yellow. The LEDs shall indicate various system operation or error states.

The indications shall be:

- Solid Green - System On
- Solid Red - Valve Position Error
- Solid Yellow - Priming System
- Flashing Green - Injecting Foam
- Flashing Red - Low Tank Leve
- Flashing Yellow - Refilling Tank

The control display shall house a microprocessor, which receives input from the systems water flow meter while also monitoring the position of the foam concentrate pump. The microprocessor shall compare the values of the water flow versus the position/rate of the foam pump, to ensure the proportion rate is accurate. One (1) check valve shall be installed in the plumbing to prevent foam from contaminating the water pump.

Hydraulic Drive System

The foam concentrate pump shall be powered by an electric over hydraulic drive system. The hydraulic system and motor shall be integrated into one (1) unit.

Foam Concentrate Pump

The foam concentrate pump shall be of positive displacement, self-priming; linear actuated design, driven by the hydraulic system. The pump shall be constructed of brass body; chrome plated stainless steel shaft, with a stainless steel piston. In order to increase longevity of the pump, no aluminum shall be present in its construction.

A relief system shall be provided which is designed to protect the drive system components and prevent over pressuring the foam concentrate pump

The foam concentrate pump shall have minimum capacity for 3 gpm with all types of foam concentrates with a viscosity at or below 6000 cps including protein, fluoroprotein, AFFF, FFFP, or AR-AFFF. The system shall deliver only the amount of foam concentrate flow required, without recirculating foam back to the storage tank. Recirculating foam concentrate back to the storage tank can cause agitation and premature foaming of the concentrate, which can result in system failure. The foam concentrate pump shall be self-priming and have the ability to draw foam concentrate from external supplies such as drums or pails.

External Foam Concentrate Connection

An external foam pick-up shall be provided to enable use of a foam agent that is not stored on the vehicle. The external foam pick-up shall be designed to allow continued operation after the on-board foam tank is empty, or the use of foam different than the foam in the foam tank.

Panel Mounted External Pick-Up Connection / Valve

A bronze three (3)-way valve shall be provided. The unit shall be mounted to the pump panel. The valve unit shall function as the foam system tank to pump valve and external suction valve. The external foam pick-up shall be one (1) 0.75" male connection GHT (garden hose thread) with a cap.

Pick-Up Hose

A 0.75" flexible hose with an end for insertion into foam containers shall be provided. The hose shall be supplied with a 0.75" female swivel GHT (garden hose thread) swivel connector. The hose shall be shipped loose.

Discharges

The foam system shall be plumbed to three (3) discharges. The discharge(s) capable of dispensing foam shall be Bumper; Rear DS 1.75"; DS Pump Panel 2.5".

System Electrical Load

The maximum current draw of the electric motor and system shall be no more than 55 amperes at 12 VDC.

SINGLE FOAM TANK REFILL

The foam system's proportioning pump shall be used to fill the foam tank. This shall allow use of the auxiliary foam pick-up to pump the foam from pails or a drum on the ground into the foam tank. A foam shut-off switch shall be installed in the fill dome of the tank to shut the system down when the tank is full. The fill operation shall be controlled by a mode in the foam system controller. While the proportioner pump is filling the tank, the controller shall display a flashing yellow LED to indicate that the tank is filling. When the tank is full, as determined by the float switch in the tank dome, the pump shall stop and the controller shall shut the yellow LED off. If it attempted to use tank fill and the refill valve and suction valve are in the wrong position(s), then a red LED shall illuminate to indicate the improper valve position(s). When the valves are positioned properly, then filling shall commence.

FOAM TANK

The foam tank shall be an integral portion of the polypropylene water tank. The cell shall have a capacity of 20 gallons of foam with the intended use of Class A foam. The foam cell shall not reduce the capacity of the water tank. The foam cell shall have a screen in the fill dome and a breather in the lid.

FOAM TANK DRAIN

The foam tank drain shall be a 1.00" quarter turn drain valve located inside the pump/plumbing compartment.

COLOR CODED TAGS

A detailed drawing/chart of the colors used on all of the inlet(s) and outlet(s) shall be provided for the customer to review. The customer will be allowed to make changes and/or mark-ups to this approval drawing/chart. The fire apparatus manufacturer shall make revisions (If needed) to the drawing per the customer changes and/or mark-ups as long as the changes are physically possible within a specific product line.

The finalized and signed customer approved drawing/chart of the colors shall become part of the contract documents.

SPECIAL TEXT/VERBIAGE TAGS

A detailed drawing/chart of the text/verbiage used on all of the inlet(s) and outlet(s) shall be provided for the customer to review. The customer will be allowed to make changes and/or mark-ups to this approval drawing/chart. The fire apparatus manufacturer shall make revisions (If needed) to the drawing per the customer changes and/or mark-ups as long as the changes are physically possible within a specific product line.

The finalized and signed customer approved drawing/chart of the text/verbiage shall become part of the contract documents.

PUMP PANEL CONFIGURATION

The pump panel configuration shall be arranged and installed in an organized manner that shall provide user-friendly operation.

PUMP AND GAUGE PANEL

The pump and gauge panels shall be constructed of stainless steel with a brushed finish. A polished aluminum trim molding shall be provided on both sides of the pump panel.

PUMP ACCESS

Right Side Panel

The right side upper pump panel shall be removable.

Panel Fastener

The removable panels shall be secured with black swell latch.

The left side pump panels shall be attached with screws.

The right side lower pump panel (drain bank) shall be attached with screws.

PUMP COMPARTMENT LIGHT

There shall be one (1) Whelen®, Model 3SC0CDCR, 3.00" white 12 volt DC LED light(s) with Whelen, Model 3FLANGEC, flange(s) installed in the pump compartment.

Engine monitoring graduated LED indicators shall be incorporated with the pressure controller.

Also provided at the pump panel shall be the following:

- Master Pump Drain Control

THROTTLE READY GREEN INDICATOR LIGHT

There shall be a green indicator light integrated with the pressure governor and/or engine throttle installed on the pump operators panel that is activated when the pump is in throttle ready mode.

OK TO PUMP INDICATOR LIGHT

There shall be a green indicator light installed on the pump operators panel that is activated when the pump is in Ok To Pump mode.

VACUUM AND PRESSURE GAUGES

The pump vacuum and pressure gauges shall be liquid filled and manufactured by Class 1 Incorporated.

The gauges shall be a minimum of 4.00" in diameter and shall have white faces with black lettering, with a pressure range of 30.00"-0-600#.

Gauge construction shall include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

The pump pressure and vacuum gauges shall be installed adjacent to each other at the pump operator's control panel.

Test port connections shall be provided at the pump operator's panel. One (1) shall be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They shall have 0.25 in. standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They shall be marked with a label.

This gauge shall include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

PRESSURE GAUGES

The individual "line" pressure gauges for the discharges shall be interlube filled and manufactured by Class 1.

They shall be a minimum of 2.00" in diameter and shall have white faces with black lettering.

Gauge construction shall include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut.

Gauges shall have a pressure range of 30"-0-400#.

The individual pressure gauge shall be installed as close to the outlet control as practical.

This gauge shall include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.

WATER LEVEL GAUGE

There shall be an electronic water level gauge provided on the operator's panel that registers water level by means of five (5) colored LED lights. The lights shall be durable, ultra-bright five (5) LED design viewable through 180 degrees. The water level indicators shall be as follows:

- 100 percent = Green
- 75 percent = Yellow
- 50 percent = Yellow
- 25 percent = Yellow
- Refill = Red

The light shall flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights shall flash sequentially when the water tank is empty.

The level measurement shall be based on the sensing of head pressure of the fluid in the tank.

The display shall be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design shall provide complete protection from water and environmental elements. An industrial pressure transducer shall be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.

FOAM LEVEL GAUGE

An electronic foam level gauge shall be provided on the operator's panel that registers foam level by means of five (5) colored LED lights. The lights shall be durable, ultra-bright five (5) LED design viewable through 180 degrees. The foam level indicators shall be as follows:

- 100 percent = Green
- 75 percent = Yellow
- 50 percent = Yellow
- 25 percent = Yellow
- Refill = Red

The light shall flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights shall flash sequentially when the foam tank is empty.

The level measurement shall be based on the sensing of head pressure of the fluid in the tank.

The display shall be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design shall provide complete protection from foam and environmental elements. An industrial pressure transducer shall be mounted to the outside of the tank. The display shall be able to be calibrated in the field and shall measure head pressure to accurately show the tank level.

LIGHT SHIELD

There shall be a polished, 16 gauge stainless steel light shield installed over the pump operator's panel.

- There shall be 12 volt DC white LED lights installed under the stainless steel light shield to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. These lights shall be activated by the pump panel light switch. Additional lights shall be included every 18.00" depending on the size of the pump house.
- One (1) pump panel light shall come on when the pump is in ok to pump mode.

The switch panel shall be lit when the parking brake is set. This is to afford the operator illumination when first approaching the control panel.

AIR HORN SYSTEM

Two (2) Hadley, rectangular bell air horns shall be provided . The horns shall be mounted low through the lower bumper flange. The horn system shall be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve shall be installed in-line to prevent the loss of air in the air brake system.

Air Horn Location

The air horns shall be located on each side of the bumper, towards the outside.

Air Horn Control

The air horn(s) shall be activated by the following:

- Right side foot switch

- Left side lanyard. The lanyard to be a nylon rope.

ELECTRONIC SIREN

A Whelen, Model: 295SLSC1, electronic siren with a plug-in, detachable noise canceling microphone shall be provided.

This siren to be active when the battery switch is on and that emergency master switch is on.

The electronic siren head shall be located in switch panel # 8 area of the center dash switch panel.

The electronic siren shall be controlled on the siren head only. No horn button or foot switches shall be required.

SPEAKER

There shall be one (1) Whelen®, Model SA315P, black nylon composite, 100-watt, speaker with through bumper mounting brackets and polished stainless steel grille provided. The speaker shall be connected to the siren amplifier.

The speaker(s) shall be recessed in the center of the front bumper.

AUXILIARY MECHANICAL SIREN

There shall be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus.

The Q2B shall be chrome finish.

The siren shall have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and shall be labeled Q2B+ at the battery. The power solenoid shall only be enabled when the emergency master switch is on.

The siren shall have a 2-gauge ground wire connected to the chassis battery stud. The cable shall be labeled Q2B- at the battery.

The mechanical siren shall be mounted on the bumper deck plate. It shall be mounted on the left side. The siren mounting shall include a reinforcement plate.

MECHANICAL SIREN CONTROL

The mechanical siren shall be activated by the following:

- Right side foot switch. The control to be available when the parking brake is released.
- Steering wheel horn ring with horn/siren selector switch. The control to be available when the parking brake is released.

A momentary chrome push button switch shall be included in the right side dash panel to activate the siren brake.

FRONT ZONE UPPER WARNING LIGHTS

There shall be one (1) 81.00" Whelen® Freedom™ IV lightbar mounted on the cab roof.

The lightbar shall include the following:

- One (1) red flashing LED module in the driver's side end position.
- One (1) blue flashing LED module in the driver's side front corner position.
- One (1) red flashing LED module in the driver's side first front position.
- One (1) blue flashing LED module in the driver's side second front position.
- One (1) red flashing LED module in the driver's side third front position.
- One (1) blue flashing LED module in the driver's side fourth front position.
- One (1) red flashing LED module in the driver's side fifth front position.
- One (1) blue flashing LED module in the driver's side sixth front position.
- One (1) white flashing LED module in the driver's side seventh front position.
- One (1) white flashing LED module in the passenger's side seventh front position.
- One (1) red flashing LED module in the passenger's side sixth front position.
- One (1) blue flashing LED module in the passenger's side fifth front position.
- One (1) red flashing LED module in the passenger's side fourth front position.
- One (1) blue flashing LED module in the passenger's side third front position.
- One (1) red flashing LED module in the passenger's side second front position.
- One (1) blue flashing LED module in the passenger's side first front position.
- One (1) red flashing LED module in the passenger's side front corner position.
- One (1) blue flashing LED module in the passenger's side end position.

There shall be clear lenses included on the lightbar.

There shall be a switch in the cab on the switch panel to control this lightbar.

The two (2) white flashing LED modules shall be deactivated when the parking brake is applied.

The six (6) red and six (6) blue flashing LED modules in the front positions may be load managed when the parking brake is applied.

FRONT ZONE LOWER LIGHTS

There shall be two (2) Whelen®, Model M6#, LED flashing warning lights installed on the cab face above the headlights, in a common bezel with the directional lights.

- The driver's side outside light to be blue to the outside and red to the inside
- The passenger's side outside light to be blue to the outside and red to the inside

Both lights shall include a clear lens.

There shall be a switch located in the cab on the switch panel to control the lights.

Any white warning LEDs shall be deactivated and any amber warning lights shall be activated when the parking brake is applied.

DAYTIME RUNNING LIGHTS (HEADLIGHTS)

The headlights shall include a feature for daytime running lights which shall be automatically activated when the parking brake is released. The daytime running light feature shall be deactivated when the primary headlight switch is turned on, when other headlight options are activated or when the parking brake is set. The running lights shall be wired through the low beam head lights.

ROTO RAY LIGHT

There shall be one (1) Roto Ray, Model 4000W rotating warning light provided on the front of the cab mounted through the top section of the front grille.

This warning light shall include the following:

- Two (2) PAR46 lights with red LEDs and clear lenses
- One (1) PAR46 light with white LEDs and a clear lens

There shall be a switch in the cab on the switch panel to control this light.

The rotation motor and the warning lights shall be deactivated when the parking brake is applied.

SIDE ZONE LOWER LIGHTING

There shall be six (6) Whelen®, Model M6#, 4.31" high x 6.75" wide x 1.37" deep split color flashing LED warning lights with clear lenses and chrome trim installed per the following:

- Two (2) lights, one (1) each side on the bumper extension. The left side front light to include red LEDs to the front with blue LEDs to the rear and the right side front light to include red LEDs to the front with blue LEDs to the rear.
- Two (2) lights, behind Crew cab door. The left side middle light to include red and blue LEDs and the right side middle light to include red and blue flashing LEDs.
- Two (2) lights, centered over rear wheels. The left side rear light to include red LEDs to the front with blue LEDs to the rear and the right side rear light to include red LEDs to the front with blue LEDs to the rear.

There shall be a switch in the cab on the switch panel to control the lights.

White LEDs shall be deactivated when the parking brake is applied.

SIDE WARNING LIGHTS

There shall be two (2) Whelen®, Model M6#, 4.31" high x 6.75" long x 1.37" deep flashing LED warning light(s) with chrome trim and clear lenses provided per the following:

The lights shall be installed both DS and PS forward body.

The color of the light(s) to be red to the front and blue to the rear.

The lights shall be activated with the side warning switch.

Amber, blue or red LEDs may be load managed when the parking brake is applied.

REAR ZONE LOWER LIGHTING

There shall be two (2) Whelen®, Model M6#, LED flashing split color warning lights located at the rear of the apparatus within the stop, turn, tail, and backup lights housings.

- The left side rear light to include red LEDs to the outside and blue LEDs to the inside
- The right side rear light to include red LEDs to the outside and blue LEDs to the inside

Both lights shall include a lens that is clear.

There shall be a switch located in the cab on the switch panel to control the lights.

WARNING LIGHTS (REAR AND SIDE UPPER ZONES)

There shall be four (4) Whelen®, Model M6#, 4.31" high x 6.75" long x 1.37" deep flashing LED warning lights with chrome trim and clear lenses provided per the following:

- One (1) light provided on the left side, side of the apparatus as high and close to the rear as practical. The left side light to have the red LEDs forward and the blue LEDs to the rear.
- One (1) light provided on the left side, rear of the apparatus as high and close to the outside as practical. The driver's side rear light to be red to the outside and blue to the inside.
- One (1) light provided on the right side, rear of the apparatus as high and close to the outside as practical. The passenger's side rear light to be red to the outside and blue to the inside.
- One (1) light provided on the right side, side of the apparatus as high and close to the rear as practical. The right side light to have the red LEDs forward and the blue LEDs to the rear.

There shall be a switch in the cab on the switch panel to control the lights.

TRAFFIC DIRECTING LIGHT

There shall be one (1) Whelen®, Model TAL65, 36.00" long x 2.87" high x 2.25" deep, amber LED traffic directing light installed at the rear of the apparatus.

The Whelen, Model TACTL5, control head shall be included with this installation.

The controller shall be energized when the battery switch is on.

The auxiliary flash not activated.

This traffic directing light shall be recess mounted into the overhead cross tube at the rear of the apparatus. The recessed pocket shall be painted to match that of the cross tube itself.

The traffic directing light control head shall be located in the driver side overhead switch panel in the right panel position.

COMMAND LIGHT

The apparatus shall be provided with a Command Light KL409D-H4, 12 VDC light tower.

The light bank shall be provided with two (2) 270 watt LED lights and two (2) 60 watt LED lights.

The tower shall not include a strobe light

The lights included with this tower may be load managed when the parking brake is applied.

This tower shall activate the Do Not Move Truck Indicator light in the cab if not in the stowed position when the parking brake is released.

Light Tower Location

The light tower shall be installed in the front hose bed area.

Light Tower Controller

There shall be a handheld wired controller included with the light tower.

Light Tower Controller Location

The light tower controller shall be installed in the driver's side front body compartment.

120 VOLT RECEPTACLE

There shall be one (1), 15/20 amp 120 volt AC three (3) wire straight blade duplex receptacle(s) with interior stainless steel wall plate(s), installed DS Forward facing EMS compartment. The NEMA configuration for the receptacle(s) shall be 5-20R.

The receptacle(s) shall be powered from the shoreline inlet.

There shall be a label installed near the receptacle(s) that state the following:

- Line Voltage
- Current Ratting (amps)
- Phase
- Frequency

NFPA LOOSE EQUIPMENT

NFPA Required Loose Equipment Provided by Fire Department

The following loose equipment as outlined in NFPA 1900, 2024 edition, table 8.1 and CAN/ULC S515:2024 edition, section 5.2 shall be provided by the fire department:

- One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, *Standard for High Visibility Public Safety Vests*, and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front.
- Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band.
- Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities.

NFPA Loose Equipment That Should be Considered

The following loose equipment as outlined in NFPA 1900, 2024 edition, appendix table A.8.4 (a) and CAN/ULC S515:2024 edition, section 5.2 should be considered:

- 800 ft (60 m) of 2.50" (65 mm) or larger fire hose.
- 400 ft (120 m) of 1.50" (38 mm), 1.75" (45 mm), or 2.00" (52 mm) fire hose.
- One (1) handline nozzle, 200 gpm (750 L/min) minimum.
- Two (2) handline nozzles, 95 gpm (360 L/min) minimum.
- One (1) smooth bore or combination nozzle with shutoff and with 2.50" (65 mm) inlet that flows a minimum of 250 gpm (950 L/min).
- Four (4) SCBA apparatus
- Four (4) SCBA spare cylinders
- One (1) first aid kit.
- Four (4) combination spanner wrenches.
- Two (2) hydrant wrenches.
- One (1) double female 2.50" (65 mm) adapter with national hose (NH) threads.
- One (1) double male 2.50" (65 mm) adapter with national hose (NH) threads.
- One (1) rubber mallet, for use on suction hose connections.
- Two (2) salvage covers each a minimum size of 12 ft × 18 ft (3.7 m × 5.5 m).
- One (1) automatic external defibrillator (AED).

SOFT SUCTION HOSE PROVIDED BY FIRE DEPARTMENT

Hose is not on the apparatus as manufactured. The fire department shall provide suction or supply hose.

STRAINER PROVIDED BY FIRE DEPARTMENT

NFPA 1900, 2024 edition, section 8.3 and CAN/ULC S515:2024 edition, section 5.2 requires a suction strainer when suction hose is provided.

The strainer is not on the apparatus as manufactured. The fire department shall provide the suction strainer.

DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT

The extinguisher is not on the apparatus as manufactured. The fire department shall provide and mount the extinguisher.

WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT

The extinguisher is not on the apparatus as manufactured. The fire department shall provide and mount the extinguisher.

FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT

The axe is not on the apparatus as manufactured. The fire department shall provide and mount the axe.

PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT

The axe is not on the apparatus as manufactured. The fire department shall provide and mount the axe.

PAINT PROCESS

The exterior custom cab and/or body painting procedure shall consist of a seven (7) step finishing process. A commercial chassis paint process shall follow similar processes as determined by the chassis manufacturer. The following procedure shall be used by the apparatus manufacturer:

1. Manual Surface Preparation - All exposed metal surfaces on the custom cab and body shall be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces shall be removed and sanded to a smooth finish. Exterior seams shall be sealed before painting. Exterior surfaces that shall not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate.
2. Chemical Cleaning and Pretreatment - All surfaces shall be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces shall be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces shall be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment converts the metal surface to a passive condition to help prevent corrosion. A final pure water rinse shall be applied to all metal surfaces.
3. Surfacer Primer - The Surfacer Primer shall be applied to a chemically treated metal surface to provide a strong corrosion protective base coat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a critical aesthetic finish. The surfacer primer shall be a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded.
4. Finish Sanding - The surfacer primer shall be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat.

5. Sealer Primer - The sealer primer is applied prior to the base coat in all areas that have not been previously primed with the surfacer primer. The sealer primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when top coated.
6. Base coat Paint - Two coats of a high performance, two component high solids polyurethane base coat shall be applied. The Base coat shall be applied to a thickness that shall achieve the proper color match. The Base coat shall be used in conjunction with a urethane clear coat to provide protection from the environment.
7. Clear Coat - Two (2) coats of clear coat shall be applied over the base coat color. The clear coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style doors shall be clear coated to match the body. Paint warranty for the roll-up doors shall be provided by the roll-up door manufacturer.

Specifications are written to define cyclic corrosion testing, physical strengths, durability and minimum appearance requirements must be met in order for an exterior paint finish to be considered acceptable as a quality finish.

Each batch of base coat color shall be checked for a proper match before painting of the cab and the body. After the cab and body are painted, the color is verified again to make sure that it matches the color standard. Electronic color measuring equipment shall be used to compare the color sample to the color standard entered into the computer. Color specifications are used to determine the color match. A Delta E reading shall be used to determine a good color match within each family color.

All removable items such as brackets, compartment doors, door hinges, and trim shall be removed and separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly shall be finish painted before assembly.

Environmental Impact

Contractor shall meet or exceed all current State regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water and soil. Controls shall include the following conditions:

- Topcoats and primers shall be chrome and lead free.
- Metal treatment chemicals shall be chrome free. The wastewater generated in the metal treatment process shall be treated on-site to remove any other heavy metals.
- Particulate emission collection from sanding operations shall have a 99.99 percent efficiency factor.
- Particulate emissions from painting operations shall be collected by a dry filter or water wash process. If the dry filter is used, it shall have an efficiency rating of 98 percent. Water wash systems shall be 99.97 percent efficient.
- Water from water wash booths shall be reused. Solids shall be removed on a continual basis to keep the water clean.

- Paint wastes shall be disposed of in an environmentally safe manner.
- Empty metal paint containers shall be recycled to recover the metal.
- Solvents used in clean-up operations shall be recycled on-site or sent off-site for distillation and returned for reuse.

Additionally, the finished apparatus shall not be manufactured with or contain products that have ozone depleting substances. Contractor shall, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with the state EPA rules and regulations.

TWO-TONE CAB PAINT

The cab shall be painted two-tone with the upper section painted #101 black and the lower section painted #90 red. There shall be a standard two-tone cab paint break provided.

There shall be a special cab shield designed and shown on the lettering and striping print.

BODY PAINT

The body shall be painted to match the single cab #90 red paint color.

PAINT CHASSIS FRAME ASSEMBLY

The chassis frame assembly shall be finished with a single system black top coat before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc.

Components treated with epoxy E-coat protection prior to paint:

- Two (2) C-channel frame rails

Components that are included with the chassis frame assembly that shall be painted not e-coated (unless otherwise stated in a secondary option) are:

- Cross members
- Axles
- Suspensions
- Steering gear
- Battery boxes
- Bumper extension weldment
- Frame extensions
- Body mounting angles
- Rear Body support substructure (front and rear)
- Pump house substructure
- Steel fuel tank
- Castings
- Individual piece parts used in chassis and body assembly

The E-coat process shall meet the technical properties shown.

AXLE HUB PAINT
All axle hubs shall be painted to match primary job color.

COMPARTMENT INTERIOR PAINT
The interior of all compartments shall be painted with a gray spatter type paint.

REFLECTIVE STRIPES
Three (3) reflective stripes shall be provided across the front of the vehicle and along the sides of the body. The reflective band shall consist of a 1.00" black stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" black stripe on the bottom.

The reflective band provided on the cab face shall be at the headlight level.

REAR CHEVRON STRIPING
There shall be alternating chevron striping located on the rear-facing vertical surface of the apparatus. The rear surface, excluding the rear compartment door, shall be covered.

The colors shall be red and fluorescent yellow green diamond grade.

Each stripe shall be 6.00" in width.

This shall meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface shall be covered with chevron striping.

"Z" RIBBON IN REFLECTIVE STRIPE
"Z" type ribbon(s) shall be added to the reflective stripe. Areas adjacent to the "Z" portion of the stripe shall be shaded and highlighted with an air brush to give it a ribbon affect. There shall be one (1) pair on the vehicle.

CAB DOOR REFLECTIVE STRIPE
A 6.00" x 16.00" fluorescent yellow green diamond grade reflective stripe shall be provided across the interior of each cab door. The stripe shall be located approximately 1.00" up from the bottom, on the door panel.

This stripe shall meet the current edition of applicable NFPA standards.

CAB FACE STRIPE
There shall be a genuine gold leaf stripe across the face of the cab.

LETTERING/NUMERALS ON CAB GRILLE
Three (3) painted letters/numerals with outline, as determined by the fire department, shall be provided on the cab grille.

FIRE APPARATUS PARTS MANUAL

There shall be one (1) custom parts manual(s) in USB flash drive format for the complete fire apparatus provided.

The manual(s) shall contain the following:

- Job number
- Part numbers with full descriptions
- Table of contents
- Parts section sorted in functional groups reflecting a major system, component, or assembly
- Parts section sorted in alphabetical order
- Instructions on how to locate parts

Each manual shall be specifically written for the chassis and body model being purchased. It shall not be a generic manual for a multitude of different chassis and bodies.

Service Parts Internet Site

The service parts information included in these manuals are also available on the factory website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.

CHASSIS SERVICE MANUALS

There shall be one (1) chassis service manuals on USB flash drives containing parts and service information on major components provided with the completed unit.

The manual shall contain the following sections:

- Job number
- Table of contents
- Troubleshooting
- Front Axle/Suspension
- Brakes
- Engine
- Tires
- Wheels
- Cab
- Electrical, DC
- Air Systems
- Plumbing
- Appendix

The manual shall be specifically written for the chassis model being purchased. It shall not be a generic manual for a multitude of different chassis and bodies.

CHASSIS OPERATION MANUAL

The chassis operation manual shall be provided on one (1) USB flash drive.

ONE (1) YEAR MATERIAL AND WORKMANSHIP

Each new piece of apparatus shall be provided with a minimum **one (1) year** basic apparatus material and workmanship limited warranty. The warranty shall cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

ENGINE WARRANTY

A Paccar five (5) year limited engine warranty shall be provided. A copy of the warranty certificate shall be submitted with the bid package.

STEERING GEAR WARRANTY

A Sheppard **three (3) year** limited steering gear warranty shall be provided. A copy of the warranty certificate shall be submitted with the bid package.

FIFTY (50) YEAR STRUCTURAL INTEGRITY

The chassis frame shall be provided with a **fifty (50) year** material and workmanship limited warranty. The warranty shall cover the chassis frame only (does not include crossmembers) as being free from defects in material and workmanship that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY

Independent front suspension shall be provided with a **three (3) year** material and workmanship limited warranty. The manufacturer's warranty shall provide that the independent front suspension and steering gears be free from any defect related to material and workmanship on the portion of the apparatus built by the manufacturer that would arise under normal use and service. A copy of the warranty certificate shall be submitted with the bid package (no exception).

REAR AXLE WARRANTY

A Eaton **five (5)-year/100,000 mile** parts and labor warranty shall be provided.

ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY

A Meritor Wabco™ ABS brake system **three (3) year** limited warranty shall be provided.

TEN (10) YEAR STRUCTURAL INTEGRITY

The new cab shall be provided with a **ten (10) year** material and workmanship limited warranty. The warranty shall cover such portions of the cab built by the manufacturer as being free from structural failures caused by defects in material and workmanship that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

TEN (10) YEAR PRO-RATED PAINT AND CORROSION

Each new piece of apparatus shall be provided with a **ten (10) year** pro-rated paint and corrosion limited warranty on the apparatus cab. The warranty shall cover painted exterior surfaces of the body to be free from blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

CAMERA SYSTEM WARRANTY

A fifty four (54) month warranty shall be provided for the camera system**.**

COMPARTMENT LIGHT WARRANTY

A ten (10) year material and workmanship limited warranty shall be provided for the 12 volt DC LED strip lights**.** The warranty shall cover the LED strip lights to be free from defects in material and workmanship that would arise under normal use.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

TRANSMISSION WARRANTY

The transmission shall have a **five (5) year/unlimited mileage** warranty covering 100 percent parts and labor. The warranty is to be provided by Allison Transmission and not the apparatus builder.

TRANSMISSION COOLER WARRANTY

The transmission cooler shall carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty shall also be in effect for the first three (3) years of the warranty coverage and shall not exceed $10,000 per occurrence. A copy of the warranty certificate shall be submitted with the bid package.

WATER TANK WARRANTY

The UPF poly water tank shall be provided with a lifetime material and workmanship limited warranty.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

TEN (10) YEAR STRUCTURAL INTEGRITY

Each new piece of apparatus shall be provided with a **ten (10) year** material and workmanship limited warranty on the apparatus body. The warranty shall cover such portions of the apparatus built by the manufacturer as being free from defects in material and workmanship that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY

An AMDOR roll-up door limited warranty shall be provided. The roll-up door shall be warranted against manufacturing defects for a period of **ten (10) years**. A **five (5) year** limited warranty shall be provided on painted roll up doors.

A copy of the warranty certificate shall be submitted with the bid package.

PUMP WARRANTY

The Waterous pump shall be provided with a seven (7) year material and workmanship limited warranty.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

TEN (10) YEAR PUMP PLUMBING WARRANTY

The stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be warranted for a period of **ten (10) years or 100,000 miles**. This covers structural failures caused by defective design or workmanship, or perforation caused by corrosion, provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original purchaser for a period of ten years from the date of delivery.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

FOAM SYSTEM WARRANTY

A **one (1) year** material and workmanship limited warranty shall be provided on the foam system. A **five (5) year** material and workmanship limited warranty shall be provided on the foam system control head.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

TEN (10) YEAR PRO-RATED PAINT AND CORROSION

Each new piece of apparatus shall be provided with a **ten (10) year** pro-rated paint and corrosion limited warranty on the apparatus body. The warranty shall cover painted exterior surfaces of the body to be free from blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection that would arise under normal use and service.

A copy of the warranty certificate shall be submitted with the bid package (no exception).

VEHICLE STABILITY CERTIFICATION

The fire apparatus manufacturer shall provide a certification stating the apparatus complies with NFPA 1900, current edition, section 7.14, Vehicle Stability. The certification shall be provided at the time of bid.

ENGINE INSTALLATION CERTIFICATION

The fire apparatus manufacturer shall provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification shall be provided at the time of delivery.

POWER STEERING CERTIFICATION

The fire apparatus manufacturer shall provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification shall be provided at the time of bid.

CAB INTEGRITY CERTIFICATION

The fire apparatus manufacturer shall provide a cab crash test certification with this proposal. The certification shall state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events shall be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer shall provide a state licensed professional engineer to witness and certify all testing events. Testing shall meet or exceed the requirements below:

- SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.
- European Occupant Protection Standard ECE Regulation No.29.
- SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks.

Side Impact

The cab shall be subjected to dynamic preload where a 14,320-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab shall see in a rollover incident.

Frontal Impact

The same cab shall withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420.

Additional Frontal Impact

The same cab shall withstand a frontal impact of 65,098 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420)

Roof Crush

The cab shall be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons.

Additional Roof Crush

The same cab shall be subjected to a roof crush force of 110,000 lbs. (Four and a half times the load criteria of ECE 29)

The same cab shall withstand all tests without any measurable intrusion into the survival space of the occupant area.

There shall be no exception to any portion of the cab integrity certification. Nonconformance shall lead to immediate rejection of bid.

CAB DOOR DURABILITY CERTIFICATION

Robust cab doors help protect occupants. Cab doors shall survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder shall certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.

WINDSHIELD WIPER DURABILITY CERTIFICATION

Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers shall survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 *Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles.* The bidder shall certify that the wiper system design has been tested and that the wiper system has met these criteria.

ELECTRIC WINDOW DURABILITY CERTIFICATION

Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design shall complete 30,000 complete up-down cycles and still function normally when finished. The bidder shall certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.

SEAT BELT ANCHOR STRENGTH

Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design shall withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder shall certify that each anchor design was pull tested to the required force and met the appropriate criteria.

SEAT MOUNTING STRENGTH

Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design shall be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder shall certify, at time of delivery, that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.

STEPPING, STANDING & WALKING AREAS, SLIP RESISTANCE CERTIFICATION

The apparatus manufacturer certifies that samples of the interior and exterior stepping, standing and walking surfaces used in the manufacture of custom and commercial fire apparatus shall conform to the requirements of NFPA 1900, 2024 edition paragraphs 12.6.4.1 and 12.6.4.2 when tested using an English XL Variable Incidence Tribometer. The bidder shall certify that substantially similar slip resistance has been tested and has met this criteria.

PERFORMANCE CERTIFICATIONS

Cab Air Conditioning

Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system shall cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder shall certify that a substantially similar cab has been tested and has met these criteria.

Cab Defroster

Visibility during inclement weather is essential to safe apparatus performance. The defroster system shall clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. The bidder shall certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.

Cab Auxiliary Heater

Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater shall warm the cab 77 degrees Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381. The bidder shall certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.

AMP DRAW REPORT

The bidder shall provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus shall provide the following:

- Documentation of the electrical system performance tests.
- A written load analysis, which shall include the following:
    - The nameplate rating of the alternator.
    - The alternator rating under the conditions specified per:
        - Current edition of applicable NFPA standards.
    - The minimum continuous load of each component that is specified per:
        - Current edition of applicable NFPA standards.

- Additional loads that, when added to the minimum continuous load, determine the total connected load.
- Each individual intermittent load.

All of the above listed items shall be provided by the bidder per the current edition of applicable NFPA standards.

MTD TREASURERS REPORT

AS OF: JUNE 30TH, 2025

FUND	BEGINNING CASH BALANCE	M-T-D REVENUES	M-T-D EXPENSES	CASH BASIS BALANCE	NET CHANGE OTHER ASSETS	NET CHANGE LIABILITIES	ACCRUAL ENDING CASH BALANCE
001-GENERAL FUND	654,624.90	(11,045.24)	81,141.93	562,437.73	0.00	1,165.94	563,603.67
002-FIRE DEPARTMENT FUND	271,843.75	14,719.54	93,331.29	193,232.00	0.00	2,223.39	195,455.39
110-ROAD USE TAX FUND	187,452.82	18,690.39	1,094.57	205,048.64	0.00	0.00	205,048.64
121-LOCAL OPTION SALES TAX	145,938.88	12,305.36	0.00	158,244.24	0.00	0.00	158,244.24
125-TIF FUND	19,004.36	4.40	0.00	19,008.76	0.00	0.00	19,008.76
145-CASINO REVENUE FUND	2,297,176.46	117,485.07	75,990.20	2,338,671.33	0.00	0.00	2,338,671.33
301-CAPITAL PROJECTS FUND	441,216.04	4,691.41	46,032.39	399,875.06	0.00	0.00	399,875.06
302-WELLNESS CENTER FUND	1,448,440.72	4,789.35	30,533.45	1,422,696.62	0.00	0.00	1,422,696.62
600-WATER FUND	53,749.48	31,053.43	42,029.05	42,773.86	0.00	0.00	42,773.86
610-SEWER FUND	564,345.64	34,651.86	39,411.83	559,585.67	0.00	0.00	559,585.67
680-STORM WATER FUND	19,969.45	1,818.18	0.00	21,787.63	0.00	0.00	21,787.63
GRAND TOTAL	6,103,762.50	229,163.75	409,564.71	5,923,361.54	0.00	3,389.33	5,926,750.87

*** END OF REPORT ***

POOLED CASH REPORT (FUND 999)
AS OF: JUNE 30TH, 2025

FUND ACCOUNT# ACCOUNT NAME	BEGINNING BALANCE	CURRENT ACTIVITY	CURRENT BALANCE
CLAIM ON CASH			
001-1110 CHECKING ACCT-GENERAL FUND	654,624.90	(91,021.23)	563,603.67
002-1110 CHECKING ACCT-FIRE DEP.	271,843.75	(76,388.36)	195,455.39
110-1110 CHECKING ACCT-ROAD USE TAX	187,452.82	17,595.82	205,048.64
121-1110 CHECKING ACCT-LOST	145,938.88	12,305.36	158,244.24
125-1110 CHECKING ACCT-TIF	19,004.36	4.40	19,008.76
145-1110 CHECKING ACCT-CASINO REVENUE	2,297,176.46	41,494.87	2,338,671.33
301-1110 CHECKING ACCT-CAP PROJECTS	441,216.04	(41,340.98)	399,875.06
302-1110 COMMUNITY CENTER FUNDS	1,448,440.72	(25,744.10)	1,422,696.62
600-1110 CHECKING ACCT-WATER	53,749.48	(10,975.62)	42,773.86
610-1110 CHECKING ACCT-SEWER	564,345.64	(4,759.97)	559,585.67
680-1110 CHECKING ACCT-STORM WATER	19,969.45	1,818.18	21,787.63
TOTAL CLAIM ON CASH	6,103,762.50	(177,011.63)	5,926,750.87
CASH IN BANK - POOLED CASH			
999-1110 CASH IN BANK #35378	1,028,596.20	(183,162.05)	845,434.15
999-1112 MONEY MARKET #67545	3,599,399.97	11,833.64	3,611,233.61
999-1115 COMM CENTER FUND #67928	1,456,761.97	4,789.35	1,461,551.32
999-1121 TIF FUND F&M #4604326	19,004.36	4.40	19,008.76
999-1122 CD# 40110066	0.00	0.00	0.00
999-1123 CD #40110067 CBF	0.00	0.00	0.00
SUBTOTAL CASH IN BANK - POOLED CASH	6,103,762.50	(166,534.66)	5,937,227.84
WAGES PAYABLE			
999-2010 WAGES PAYABLE	0.00	10,476.97	10,476.97
SUBTOTAL WAGES PAYABLE	0.00	10,476.97	10,476.97
TOTAL CASH IN BANK - POOLED CASH	6,103,762.50	(177,011.63)	5,926,750.87
DUE TO OTHER FUNDS - POOLED CASH			
999-2100 DUE TO OTHER FUNDS	6,103,762.50	(177,011.63)	5,926,750.87
TOTAL DUE TO OTHER FUNDS	6,103,762.50	(177,011.63)	5,926,750.87

POOLED CASH REPORT (FUND 999)
AS OF: JUNE 30TH, 2025

FUND ACCOUNT# ACCOUNT NAME	BEGINNING BALANCE	CURRENT ACTIVITY	CURRENT BALANCE
DUE TO POOLED CASH			
001-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
002-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
110-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
121-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
125-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
145-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
200-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
301-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
302-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
600-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
610-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
670-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
680-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
TOTAL DUE TO POOLED CASH	0.00	0.00	0.00
DUE FROM OTHER FUNDS			
999-1330 DUE FROM OTHER FUNDS	0.00	0.00	0.00
TOTAL DUE FROM OTHER FUNDS	0.00	0.00	0.00
ACCOUNTS PAYABLE - POOLED CASH			
999-2020 ACCOUNTS PAYABLE CONTROL	0.00	0.00	0.00
TOTAL ACCOUNTS PAYABLE POOLED CASH	0.00	0.00	0.00

*** PROOF CASH BALANCES ***

(A)		(B)		(C)	
CLAIM ON CASH	5,926,750.87	CLAIM ON CASH	5,926,750.87	CASH IN BANK	5,926,750.87
CASH IN BANK	5,926,750.87	DUE TO OTHER FUNDS	5,926,750.87	DUE TO OTHER FUNDS	5,926,750.87
DIFFERENCE	0.00		0.00		0.00

*** PROOF ACCOUNTS PAYABLE BALANCES ***

(D)		(E)		(F)	
AP PENDING	0.00	AP PENDING	0.00	DUE FROM OTHER FUNDS	0.00
DUE FROM OTHER FUNDS	0.00	ACCOUNTS PAYABLE	0.00	ACCOUNTS PAYABLE	0.00
DIFFERENCE	0.00		0.00		0.00

*** END OF REPORT ***

MTD TREASURERS REPORT

AS OF: JUNE 30TH, 2025

FUND	BEGINNING CASH BALANCE	M-T-D REVENUES	M-T-D EXPENSES	CASH BASIS BALANCE	NET CHANGE OTHER ASSETS	NET CHANGE LIABILITIES	ACCRUAL ENDING CASH BALANCE
001-GENERAL FUND	654,624.90	(11,045.24)	81,141.93	562,437.73	0.00	1,165.94	563,603.67
002-FIRE DEPARTMENT FUND	271,843.75	14,719.54	93,331.29	193,232.00	0.00	2,223.39	195,455.39
110-ROAD USE TAX FUND	187,452.82	18,690.39	1,094.57	205,048.64	0.00	0.00	205,048.64
121-LOCAL OPTION SALES TAX	145,938.88	12,305.36	0.00	158,244.24	0.00	0.00	158,244.24
125-TIF FUND	19,004.36	4.40	0.00	19,008.76	0.00	0.00	19,008.76
145-CASINO REVENUE FUND	2,297,176.46	117,485.07	75,990.20	2,338,671.33	0.00	0.00	2,338,671.33
301-CAPITAL PROJECTS FUND	441,216.04	4,691.41	46,032.39	399,875.06	0.00	0.00	399,875.06
302-WELLNESS CENTER FUND	1,448,440.72	4,789.35	30,533.45	1,422,696.62	0.00	0.00	1,422,696.62
600-WATER FUND	53,749.48	31,053.43	42,029.05	42,773.86	0.00	0.00	42,773.86
610-SEWER FUND	564,345.64	34,651.86	39,411.83	559,585.67	0.00	0.00	559,585.67
680-STORM WATER FUND	19,969.45	1,818.18	0.00	21,787.63	0.00	0.00	21,787.63
GRAND TOTAL	6,103,762.50	229,163.75	409,564.71	5,923,361.54	0.00	3,389.33	5,926,750.87

*** END OF REPORT ***

POOLED CASH REPORT (FUND 999)
AS OF: JUNE 30TH, 2025

FUND ACCOUNT# ACCOUNT NAME	BEGINNING BALANCE	CURRENT ACTIVITY	CURRENT BALANCE
CLAIM ON CASH			
001-1110 CHECKING ACCT-GENERAL FUND	654,624.90	(91,021.23)	563,603.67
002-1110 CHECKING ACCT-FIRE DEP.	271,843.75	(76,388.36)	195,455.39
110-1110 CHECKING ACCT-ROAD USE TAX	187,452.82	17,595.82	205,048.64
121-1110 CHECKING ACCT-LOST	145,938.88	12,305.36	158,244.24
125-1110 CHECKING ACCT-TIF	19,004.36	4.40	19,008.76
145-1110 CHECKING ACCT-CASINO REVENUE	2,297,176.46	41,494.87	2,338,671.33
301-1110 CHECKING ACCT-CAP PROJECTS	441,216.04	(41,340.98)	399,875.06
302-1110 COMMUNITY CENTER FUNDS	1,448,440.72	(25,744.10)	1,422,696.62
600-1110 CHECKING ACCT-WATER	53,749.48	(10,975.62)	42,773.86
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680-1110 CHECKING ACCT-STORM WATER	19,969.45	1,818.18	21,787.63
TOTAL CLAIM ON CASH	6,103,762.50	(177,011.63)	5,926,750.87
CASH IN BANK - POOLED CASH			
999-1110 CASH IN BANK #35378	1,028,596.20	(183,162.05)	845,434.15
999-1112 MONEY MARKET #67545	3,599,399.97	11,833.64	3,611,233.61
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999-1121 TIF FUND F&M #4604326	19,004.36	4.40	19,008.76
999-1122 CD# 40110066	0.00	0.00	0.00
999-1123 CD #40110067 CBF	0.00	0.00	0.00
SUBTOTAL CASH IN BANK - POOLED CASH	6,103,762.50	(166,534.66)	5,937,227.84
WAGES PAYABLE			
999-2010 WAGES PAYABLE	0.00	10,476.97	10,476.97
SUBTOTAL WAGES PAYABLE	0.00	10,476.97	10,476.97
TOTAL CASH IN BANK - POOLED CASH	6,103,762.50	(177,011.63)	5,926,750.87
DUE TO OTHER FUNDS - POOLED CASH			
999-2100 DUE TO OTHER FUNDS	6,103,762.50	(177,011.63)	5,926,750.87
TOTAL DUE TO OTHER FUNDS	6,103,762.50	(177,011.63)	5,926,750.87

POOLED CASH REPORT (FUND 999)
AS OF: JUNE 30TH, 2025

FUND ACCOUNT# ACCOUNT NAME	BEGINNING BALANCE	CURRENT ACTIVITY	CURRENT BALANCE
DUE TO POOLED CASH			
001-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
002-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
110-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
121-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
125-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
145-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
200-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
301-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
302-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
600-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
610-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
670-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
680-2020 ACCOUNTS PAYABLE	0.00	0.00	0.00
TOTAL DUE TO POOLED CASH	0.00	0.00	0.00
DUE FROM OTHER FUNDS			
999-1330 DUE FROM OTHER FUNDS	0.00	0.00	0.00
TOTAL DUE FROM OTHER FUNDS	0.00	0.00	0.00
ACCOUNTS PAYABLE - POOLED CASH			
999-2020 ACCOUNTS PAYABLE CONTROL	0.00	0.00	0.00
TOTAL ACCOUNTS PAYABLE POOLED CASH	0.00	0.00	0.00

*** PROOF CASH BALANCES ***

(A)		(B)		(C)	
CLAIM ON CASH	5,926,750.87	CLAIM ON CASH	5,926,750.87	CASH IN BANK	5,926,750.87
CASH IN BANK	5,926,750.87	DUE TO OTHER FUNDS	5,926,750.87	DUE TO OTHER FUNDS	5,926,750.87
DIFFERENCE	0.00		0.00		0.00

*** PROOF ACCOUNTS PAYABLE BALANCES ***

(D)		(E)		(F)	
AP PENDING	0.00	AP PENDING	0.00	DUE FROM OTHER FUNDS	0.00
DUE FROM OTHER FUNDS	0.00	ACCOUNTS PAYABLE	0.00	ACCOUNTS PAYABLE	0.00
DIFFERENCE	0.00		0.00		0.00

*** END OF REPORT ***