



GRASS VALLEY

City Council Regular Meeting, Capital Improvements Authority and Redevelopment "Successor Agency"

Tuesday, April 08, 2025 at 6:00 PM

Council Chambers, Grass Valley City Hall | 125 East Main Street, Grass Valley, California

Telephone: (530) 274-4310 - Fax: (530) 274-4399

E-Mail: info@cityofgrassvalley.com

Web Site: www.cityofgrassvalley.com

AGENDA

Any person with a disability who requires accommodations to participate in this meeting should telephone the City Clerk's office at (530)274-4390, at least 48 hours prior to the meeting to make a request for a disability related modification or accommodation.

**Mayor Hilary Hodge, Vice Mayor Haven Caravelli, Councilmember Jan Arbuckle,
Councilmember Joe Bonomolo, Councilmember Tom Ivy**

MEETING NOTICE

City Council welcomes you to attend the meetings electronically or in person at the City Hall Council Chambers, located at 125 E. Main St., Grass Valley, CA 95945. Regular Meetings are scheduled at 6:00 p.m. on the 2nd and 4th Tuesday of each month. Your interest is encouraged and appreciated.

This meeting is being broadcast "live" on Comcast Channel 17 & 18 by Nevada County Media, on the internet at www.cityofgrassvalley.com, or on the City of Grass Valley YouTube channel at <https://www.youtube.com/@cityofgrassvalley.com>

Members of the public are encouraged to submit public comments via voicemail at (530) 274-4390 and email to public@cityofgrassvalley.com. Comments will be reviewed and distributed before the meeting if received by 5pm. Comments received after that will be addressed during the item and/or at the end of the meeting. Council will have the option to modify their action on items based on comments received. Action may be taken on any agenda item.

Agenda materials, staff reports, and background information related to regular agenda items are available on the City's website: www.cityofgrassvalley.com. Materials related to an item on this agenda submitted to the Council after distribution of the agenda packet will be made available on the City of Grass Valley website at www.cityofgrassvalley.com, subject to City staff's ability to post the documents before the meeting.

Please note, individuals who disrupt, disturb, impede, or render infeasible the orderly conduct of a meeting will receive one warning that, if they do not cease such behavior, they may be removed from the meeting. The chair has authority to order individuals removed if they do not cease their disruptive behavior following this warning. No warning is required before an individual is removed if that individual engages in a use of force or makes a true threat of force. (Gov. Code, § 54957.95.)

Council Chambers are wheelchair accessible and listening devices are available. Other special accommodations may be requested to the City Clerk 72 hours in advance of the meeting by calling (530) 274-4390, we are happy to accommodate.

CALL TO ORDER

PLEDGE OF ALLEGIANCE

ROLL CALL

AGENDA APPROVAL - *The City Council reserves the right to hear items in a different order to accomplish business in the most efficient manner.*

REPORT OUT OF CLOSED SESSION

INTRODUCTIONS AND PRESENTATIONS

1. Arts, Culture & Creativity Month Proclamation

CITY STAFF UPDATE

2. Fire Department Update

PUBLIC COMMENT - *Members of the public are encouraged to submit public comments via voicemail at (530) 274-4390 and email to public@cityofgrassvalley.com. Comments will be reviewed and distributed before the meeting if received by 5pm. Comments received after 5pm will be addressed during the item and/or at the end of the meeting. Council will have the option to modify their action on items based on comments received. Action may be taken on any agenda item. There is a time limitation of three minutes per person for all emailed, voicemail, or in person comments, and only one type of public comment per person. Speaker cards are assigned for public comments that are on any items not on the agenda, and within the jurisdiction or interest of the City. Speaker Cards can be pulled until the opening of public comment at which time sign ups will no longer be allowed. These cards can be found at the City Clerks desk. If you wish to speak regarding a scheduled agenda item, please come to the podium when the item is announced. When recognized, please begin by providing your name and address for the record (optional). Thirty minutes of public comment will be heard under this item in order of the speaker card assigned and the remaining general public comments will be heard at the end of the meeting. We will begin with number one.*

CONSENT ITEMS -*All matters listed under the Consent Calendar are to be considered routine by the City Council and/or Grass Valley Redevelopment Agency and will be enacted by one motion in the form listed. There will be no separate discussion of these items unless, before the City Council and/or Grass Valley Redevelopment Agency votes on the motion to adopt, members of the Council and/or Agency, staff or the public request specific items to be removed from the Consent Calendar for separate discussion and action but Council action is required to do so (roll call vote). Unless the Council removes an item from the Consent Calendar for separate discussion, public comments are invited as to the consent calendar as a whole and limited to three minutes per person.*

3. Approval of the Regular Meeting Minutes of March 25, 2025.

Recommendation: Council approve minutes as submitted.

4. Health and Safety Code Section 13146.4 Report on Fire Inspections

CEQA: Not a project

Recommendation: That Council adopt Resolution 2025-07, which accepts the Grass Valley Fire Department report pursuant to Health and Safety Code Section 13146.4 annual inspections for 2024

5. Nevada County Transportation Commission FY 2025/26 Overall Work Program Approval

CEQA: N/A - Not a Project

Recommendation: That Council: 1) review the projects proposed for inclusion in the Nevada County Transportation Commission FY 2025/26 Overall Work Program, 2) adopt a Resolution approving the projects for inclusion in the Nevada County Transportation Commission Overall Work Program

6. 2025 Annual Measure E Street Rehabilitation Project - Authorization to Award Contract

CEQA: Categorically Exempt - Section 15301 “Existing Facilities”

Recommendation: That Council 1) award a contract for the 2025 Annual Measure E Street Rehabilitation Project to Sierra Nevada Construction, Inc., 2) authorize the Mayor to execute the construction contract, subject to legal review and, 3) authorize the City Engineer to approve construction change orders for up to 10% of the contract amount.

7. Extension of an agreement between the City and Nevada County for the County to provide building inspection, plan review, and other related building services for the City.

CEQA: Not a project

Recommendation: Authorize the Mayor to sign the attached Agreement between the City of Grass Valley and Nevada County for the provision of building services, subject to legal review.

8. Community Engagement Specialist Position

CEQA: Not a project.

Recommendation: That the City Council approve the creation of the Community Engagement Specialist position and authorize the promotion of an existing qualified employee to fill the position, with backfilling of any resulting vacancies.

9. Purchase of a Pierce Manufacturing 107’ Ascendant Aerial Ladder Truck

CEQA: Not a Project

Recommendation: That 1) Council direct the Fire Chief to enter into an agreement with Pierce Manufacturing for one 107’ Ascendant Aerial Ladder Truck, subject to legal review; 2) Direct the Finance Director to make necessary budget adjustments in the 2025/2026 Fiscal Year Budget.

10. Appointment of Planning Commissioner

CEQA: Not a Project

Recommendation: That Council approve the appointment of Matthew Wich as Planning Commissioner for Councilmember Ivy.

11. Loma Rica Open Space Fuel Reduction Project

CEQA: Exempt under CEQA Guideline §15304, Categorical Exemption Class 4 (“Minor Alterations to Land”)

Recommendation: That Council authorize the advertisement for bids for the Loma Rica Open Space Fuels Reduction Project.

12. Appointment of Measure E Oversight Committee Members

CEQA: Not a Project

Recommendation: That the City Council appoint Measure E Oversight Committee member Branstrom to a term ending December 2028.

ITEMS REMOVED FROM CONSENT CALENDAR FOR DISCUSSION OR SEPARATE ACTION AND / OR ANY ADDED AGENDA ITEMS

REORGANIZATION RELATED ITEMS

PUBLIC HEARING

ADMINISTRATIVE

13. Approve Resolution 2025-09 Renaming the road through Memorial Park to Lou Conter Way

CEQA: Not a project

Recommendation: That the City Council approve Resolution 2025-09 naming of a street within Memorial Park in Grass Valley, CA, in honor of Lou Conter, in recognition of his distinguished military service and contributions to the nation and community.

14. Partnership between Grass Valley Police Animal Services and Wayward Journey

CEQA: Not a project

Recommendation: That Council (1) receive a presentation by GVPD and Wayward Journey; and (2) direct the Chief of Police to sign an MOU, subject to legal review.

15. Condon Park Road Maintenance Project - Authorization to Award Contract

CEQA: Categorically Exempt - Section 15301 “Existing Facilities”

Recommendation: That Council 1) award a contract for the Condon Park Road Maintenance Project to the lowest responsive bidder, subject to the bid protest period, 2) authorize the Mayor to execute the construction contract, subject to legal review, and 3) authorize the City Engineer to approve construction change orders for up to 10% of the contract amount.

16. Downtown Street Rehab Project - Authorization to Award Contract

CEQA: Categorically Exempt - Section 15301 “Existing Facilities”

Recommendation: That Council 1) award a contract for the Downtown Street Rehab Project to Hansen Bros Enterprises, 2) authorize the Mayor to execute the construction contract, subject to legal review, 3) authorize the City Engineer to approve construction change orders for up to 10% of the contract amount, 4) authorize the Finance Director to execute a budget amendment of \$400,000 in Water Funds to the project and 5) provide any further direction to Staff on final intersection and pedestrian safety controls.

BRIEF REPORTS BY COUNCIL MEMBERS

CONTINUATION OF PUBLIC COMMENT

ADJOURN

POSTING NOTICE

This is to certify that the above notice of a meeting of The City Council, scheduled for Tuesday, April 8, 2025, at 6:00 p.m., was posted at city hall, easily accessible to the public, as of 5:00 p.m. Thursday, April 3, 2025.

Taylor Whittingslow, City Clerk



PROCLAMATION

Arts, Culture & Creativity Month April 2025

WHEREAS, *Arts, Culture & Creativity Month* of April is the 7th annual statewide celebration first established by the California legislature in 2019; and

WHEREAS, the City of Grass Valley believes that arts, culture and creativity are essential to our thriving community; and

WHEREAS, the benefits of the arts impact our HEALTH by reducing depression, lowering stress hormones, and increasing longevity through regular engagement and attendance at cultural events; and

WHEREAS, the benefits of the arts impact our HOPE by fostering a sense of community and personal fulfillment, inspiring optimism and resilience in the face of challenges; and

WHEREAS, the benefits of the arts impact our HEALING by offering therapeutic experiences that restore well-being, enhance mental and physical health, and support emotional recovery; and

WHEREAS, culture creates connections, encourages understanding, and strengthens community; and

WHEREAS, creativity sparks innovation, growth, and positive change; and

WHEREAS, the City Council, and countless local art organizations and artists lead efforts to advance the arts through programs, partnerships, and the community-building initiatives such as implementing public art programs within the City; and

WHEREAS, the City of Grass Valley values partnering with the Nevada County Arts Council and state-level arts organizations such as California for the Arts and California Arts Council; and

WHEREAS, the City of Grass Valley partners with the City of Nevada City, the Grass Valley Chamber, the Nevada City Chamber, and with the Nevada County Arts Council in administering the Grass Valley-Nevada City Cultural District under the California Cultural District Program, pursuant to Assembly Bill 189; and

WHEREAS, this collective work at the local level and throughout the state encourages racial equity, uplifts our community, and changes our lives for the better; and

NOW, THEREFORE, BE IT RESOLVED that the City Council of the City of Grass Valley hereby proclaims the month of April 2025 as *Arts, Culture & Creativity Month*, and hereby encourages those who live, work, play, and create art in the City to join in the celebration!

Dated this 8th day of April 2025.

Hilary Hodge, Mayor

Haven Caravelli, Vice Mayor

Jan Arbuckle, Council Member

Joseph Bonomolo, Council Member

Thomas Ivy, Council Member



GRASS VALLEY

**City Council Regular Meeting, Capital Improvements Authority and
Redevelopment "Successor Agency"**

Tuesday, March 25, 2025 at 6:00 PM

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MINUTES

CALL TO ORDER

Meeting called to order at 6:00 pm

PLEDGE OF ALLEGIANCE

Mayor Hodge led the Pledge of Allegiance.

ROLL CALL

PRESENT

- Councilmember Jan Arbuckle
- Councilmember Joe Bonomolo
- Councilmember Tom Ivy
- Vice Mayor Haven Caravelli
- Mayor Hilary Hodge

AGENDA APPROVAL -

Motion made to approve agenda as submitted by Councilmember Arbuckle, Seconded by Vice Mayor Caravelli.

Voting Yea: Councilmember Arbuckle, Councilmember Bonomolo, Councilmember Ivy, Vice Mayor Caravelli, Mayor Hodge

REPORT OUT OF CLOSED SESSION

No closed-door meeting.

INTRODUCTIONS AND PRESENTATIONS

1. Child Abuse Prevention Month Proclamation
2. Proclamation for Rotary of Grass Valley 100th Anniversary
3. Annual presentation from the Grass Valley Downtown Association.

PUBLIC COMMENT -

In-person Public comment: Speakers 1 through 5 (Noted change speaker # 3 did not speak).

Virtual Public Comment attached.

CONSENT ITEMS -

Public Comment: Bob Branstrom

Virtual Public Comment attached.

Motion made to approve the consent by Councilmember Arbuckle, Seconded by Vice Mayor Caravelli.

Voting Yea: Councilmember Arbuckle, Councilmember Bonomolo, Councilmember Ivy, Vice Mayor Caravelli, Mayor Hodge

4. Approval of the Regular Meeting Minutes of March 11, 2025.

Recommendation: Council approve minutes as submitted.

5. Emergency Cleaning of WWTP Anaerobic Digester at a Total Cost of \$448,400

CEQA: Exempt - Existing Facilities

Recommendation: Council to authorize the Utilities Director to approve the emergency cleaning of the WWTP anaerobic digester from Bristola, in accordance with Section 3.08.150 of the Grass Valley Municipal Code.

6. Resolutions opposing local forest health, wildfire mitigation, social, and economic impacts that will result from federal funding cuts

CEQA: Not a project

Recommendation: That the Council 1) adopt resolution 2025-06 opposing the local impacts to forest health and wildfire mitigation that will result from federal funding and staffing cuts to our public lands; 2) adopt resolution 2025-05 opposing the local economic impacts that will result from federal funding cuts; and 3) Provide direction to staff to draft a cover letter, to be approved by the Mayor and Vice Mayor, expressing the City's opposition to federal staffing and funding cuts.

ITEMS REMOVED FROM CONSENT CALENDAR FOR DISCUSSION OR SEPARATE ACTION AND / OR ANY ADDED AGENDA ITEMS

REORGANIZATION RELATED ITEMS

PUBLIC HEARING

ADMINISTRATIVE

7. Fiscal Year 2024-2025 Mid-Year Budget Review

CEQA: Not a project

Recommendation: It is recommended that the City Council approve the Mid-Year Budget Review and the proposed revisions through a motion.

Jennifer Styczynski, Deputy Finance Director, gave the presentation to the council.

Break taken at 7:23 pm. Meeting called back to order at 7:30 pm

Public comment: Bob Branstrom, Rob Katizine,

Council discussed reserves, capital projects, possible tariffs, non-fungible funds, Subcommittee of Vice Mayor Caravelli and Mayor Hodge as a budget committee.

Motion made that the City Council approve the Mid-Year Budget Review and the proposed revisions by Councilmember Arbuckle, Seconded by Vice Mayor Caravelli.

Voting Yea: Councilmember Arbuckle, Councilmember Bonomolo, Councilmember Ivy, Vice Mayor Caravelli, Mayor Hodge

8. Parking Assessment Presentation

CEQA: Not a project

Recommendation: That (1) Council hear the presentation from staff and Dixon Resources Unlimited regarding their operational needs assessment; and (2) provide direction on next steps.

Haven Caravelli recues herself due to owning a business within the zone and Tom Ivy recues himself due to owning property within the 500 radius of the parking zone.

Break taken at 7:49 pm. Meeting called back to order at 8:00 pm.

Alex Gammelgard, Police Chief, gave an introduction to the item, and Julie Dixon from Dixon Resources Unlimited gave a presentation to the Council.

Council discussed employee parking and residential overnight parking.

Public Comment: Bob Branstrom, Robin Galvin-Davis, Rob Katizine, Pam, Annamarie Trigger, Jedidiah Watson, Michelle Oakland,

Virtual public comments are attached.

The council directed staff to return with a draft of a Residential Parking policy and information on parking enforcement.

9. Code of Conduct Update

CEQA: Not a project

Recommendation: That Council review and adopt the attached revised Code of Conduct.

Tim Kiser, City Manager, gave a presentation to the Council.

Motion made to review and adopt the attached revised Code of Conduct, with one change to remove "The Union" and replace with local media by Councilmember Arbuckle, Seconded by Vice Mayor Caravelli.

Voting Yea: Councilmember Arbuckle, Councilmember Bonomolo, Councilmember Ivy, Vice Mayor Caravelli, Mayor Hodge

BRIEF REPORTS BY COUNCIL MEMBERS

Vice Mayor Caravelli attended the Cultural Forwards Cities Meeting, and will not be at the April 8th meeting. Councilmember Ivy attended the Nevada County Transit Commission and Transportation Commission meetings and the Pioneer Community Energy meeting. Councilmember Bonomolo attended the Solid Waste Commission meeting and met with the GVDA and Grass Valley Chamber. Councilmember Arbuckle spent the week in DC and had a meeting at the White House with the intergovernmental affairs director, met with Congressman Kiley, attended the Nevada County Law Enforcement Meeting, attended the Elected and Appointed Women's Tea at the County, the Power of the Purse, Sierra Harvest Soup Night, and Classical music put on with Music in the Mountains. Vice Mayor Hodge attended the GVDA Board Meeting, Cultural District Interview, Arts & Cultural District Meuse Magazine is released, the women's Day Reception was exceptional, and Wednesday with the Mayor will be on the 26th from 9 am to 11 am.

CONTINUATION OF PUBLIC COMMENT

ADJOURN

The meeting was adjourned at 9:49 pm.

Hilary Hodge, Mayor

Taylor Whittingslow, City Clerk

Adopted on: _____



3/25/25

Item # 3.

CITY OF GRASS VALLEY CITY COUNCIL MEETING

GENERAL PUBLIC COMMENT SIGN IN SHEET

WELCOME to the City of Grass Valley City Council meeting! Public Comments provide an opportunity for the public to address the City Council on any subject which is not on the agenda but in the jurisdiction of the council. If you wish to speak, please indicate in the appropriate box when you sign in and take the number corresponding to your name. Each individual can have up to 3 minutes of public comment. At the beginning of the meeting, there will be an allotted 30 minutes of general public comments and the remainder of comments will be heard at the end of the agenda. Speakers will be called in order of the numbers given.

When you are recognized by the mayor:

1. Please stand before the podium and give your name and address. (optional)
2. Please limit your comments to three minutes per speaker.
3. If previous speakers have made the same point, you may simply indicate your support or disagreement, unless you have new information.

Thank you for your participation.

#'s	Print Name or N/A	Address (optional)	Self/Business (optional)
1	H. BEN Winkler	Grass Valley	
2	Zach		
3	Deborah Hill	GV	Business
4	Freedom Cole	Nevada City	self
5	Swan Miller	107 Ventana Ridge Pl.	self
6			
7			
8			
9			
10			
11			
12			
13			
14			

Taylor Whittingslow

From: SHIRI LOVE - Voicemail box 8880 <noreply@voicemail.goto.com>
Sent: Tuesday, March 25, 2025 4:40 PM
To: Public Comments
Subject: Voicemail from [REDACTED] on Mar 25 2025 4:35 PM
Attachments: 1742945709-00001554.mp3



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New voicemail message

Time: Tuesday, March 25 2025 4:35 PM

From: [REDACTED]

Duration: 3 minutes 58 seconds

Voicemail box: 8880

Transcript:

When they say Palestinian territory, they mean the entire of Israel. Zionists are anyone who is pro-Israel and love Israel, but also mean 9 million Israelis. So when they say, I'm not anti-Semitic, I'm just anti-Zionist, no. Because radical Islam use deceiving words that often Westerners do not understand, the complete nuances and significances and what the enemy of Israel is actually meaning and intending. And groups like Nevada City for Palestine and Nevada County Peace and Justice stand behind those type of wordings and parroting it in our city councils. They belittle Middle Eastern voices like myself who were born and raised in the conflict because Their media told them to not listen to the Zionists. They ignite and perpetuate hatred, systematically normalizing the humanization of Israelis and Jewish Americans locally. In their crowd, there are many bullies whom for a year and a half now cry to our city council about humanity and how the war between Israel and Hamas is somehow a local issue, convince us that they are on the good side of history, while bullying us, Jewish Middle Eastern locals, in the backstage of their propaganda pro-

terrorism show. Free Palestine is a hijacked movement that isn't a grassroots movement, but rather a well-funded jihadist, anti-Semitic organization. It was created by Yasser Arafat, who was an extremist, father of terrorism, who quite literally created the Palestinian cause to be used as a turgen horse against Israel with the sole purpose of igniting and feeding the narrative that Israel has no right to exist and get the world supporting an idea that Israel should be demolished. Is illegal and present a relentlessly false history and distorted truth about Jews and Israelis. For example, Jews aren't European and never were. Our city councils are engaging with a radical Islamist propaganda, with a group of local radicals brainwashed mob who support Hamas out loud and on the podium of our city hall. A recognized terrorist organization surrendering to their request to put on their table a document that was created by a corrupt American Islamist organization CAIR who recently was exposed for receiving funds from well-established terrorist groups as well as under simple research you can find their members also supporting Hamas on all their social media platforms. Several top executives have been convicted of terror-related crimes. As a result, the FBI has publicly announced that it has terminated any outreach activities with the national organization, which bills itself as America's largest Muslim civil liberties and advocacy organization. They are missing \$7 million in taxpayer money and cash that is unaccounted for. I really believe that you guys are doing extremely wrong to our community by engaging with these people. And our statement is that we want a resolution of no forging intervention in city politics. Thank you.

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Taylor Whittingslow

From: H. B. Winkler [REDACTED]
Sent: Tuesday, March 25, 2025 4:36 PM
To: Public Comments
Subject: Comments - Grass Valley Ceasefire resolution

You don't often get email from [REDACTED] [Learn why this is important](#)

Despite the Grass Valley Ceasefire Resolution (passed 2-25-25), there are still 59 Israeli hostages being held by Palestinian terrorists.

Of all the many and larger international conflicts, Grass Valley cites only one conflict in which to demand a ceasefire; this demand is directed toward the world's only Jewish State, Israel. Israel found itself in a defensive war starting on October 7, 2023.

Although this resolution mentions Hamas, they are not condemned. The Grass Valley resolution only condemns the State of Israel. Hamas's allies in the October 7 invasion and atrocities are, remarkably, NOT EVEN MENTIONED in these Resolutions:

- Izz al-Din Al-Qassam Brigades (Hamas),
- Al-Quds Brigades (Palestinian Islamic Jihad),
- Abu Ali Mustafa Brigades (Popular Front for the Liberation of Palestine),
- Jihad Jibril Brigades (Popular Front for the Liberation of Palestine – General Command),
- National Resistance Brigades (Democratic Front for the Liberation of Palestine),
- Nasser Saleh al-Din Battalions (Popular Resistance Committees),
- Al-Aqsa Martyrs' Brigades (ex-Fatah),
- Holy Warriors' Battalions (Mujahedeen), and
- Al-Ansar Brigades (Al-Ansar Movement).

Nor do the resolutions mention, nor condemn, Lebanon (Hezbollah), Syria, Iran, Iraq, Yemen (Houtis) nor terrorists in the Palestinian Authority-controlled territories, all which attacked Israel following October 7.

These resolutions' double standards are, by definition, Anti-Semitism.

Today in Gaza, there was a rare public protest against Hamas.

Gazans protested in the streets of Beit Lahiya in northern Gaza, calling for the Iranian-backed terrorist group to "get out," according to [reports](#).

Hamas terrorists emerged from the Indonesian Hospital to disperse the crowd, which threw rocks at them in response.

Videos from the scene show the crowd saying various slogans in Arabic, including "Down with Hamas, "Stop the war," and "Release the hostages!"

If Palestinians half a world away demand "Down with Hamas!" why can't the Grass Valley City Council say "Down with Hamas" and demand "Hamas Stop the War!"

H. Ben Winkler
Grass Valley, CA
641-451-7076
HBWink@gmail.com

Item # 3.

Taylor Whittingslow

From: MARK GOLD - Voicemail box 8880 <noreply@voicemail.goto.com>
Sent: Tuesday, March 25, 2025 4:32 PM
To: Public Comments
Subject: Voicemail from [REDACTED] on Mar 25 2025 4:28 PM
Attachments: 1742945319-0000154b.mp3



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New voicemail message

Time: Tuesday, March 25 2025 4:28 PM

From: [REDACTED]

Duration: 1 minute 40 seconds

Voicemail box: 8880

Transcript:

Hi. My name is Mark Gold. My wife and I own Goldbush Cookie Company right across the street from City Hall. I received a letter from Waste Management that basically stated that due to a recent audit, they found that we had not been billed for our curbside organics collection for the months of January, February, and March, and that they were going to send as a supplemental bill regarding that. Now I reached out to waste management, spent an hour on the phone with multiple people and in the end they told me that there's nothing they could do about it. So this was a surprise bill, you know, from them. And after finally talking with somebody, they said that it really comes down to the contract and the contract was with the city of Grass Valley. Now, I'm assuming that I'm not the only person who's affected by this, but effectively what they're saying is that I'm going to have to owe another \$204. Now, this is an unexpected bill. I think it's unfair that waste management couldn't get their act together and bill us correctly. And so I'm requesting that the city council talk to the city manager or whoever's responsible for the contract with waste management and

see about possibly getting these charges reversed. And that's all I have to say. Thank
you so much. Have a great meeting.

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Sent: Tuesday, March 25, 2025 3:39 PM
To: Public Comments
Subject: Voicemail from (510) 206-5456 on Mar 25 2025 3:35 PM
Attachments: 1742942130-000014fa.mp3



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New voicemail message

Time: Tuesday, March 25 2025 3:35 PM

From: [REDACTED]

Duration: 2 minutes 34 seconds

Voicemail box: 8880

Transcript: Hello, my name is Jason Miller. I'm a resident at 107 Ventana Ridge Place in Grass Valley, California. And my comment is that I strongly discourage the council from attempting to pass resolutions related to foreign politics. Foreign policy is for the federal government, not the city government. I'm sure there are many local issues with parks, roads, schools, and commerce that need to be addressed. But instead, at the request of Councilman Tom Ivey and seconded by Councilman Joe Bonamolo, we are here to discuss how the city should interpret politics abroad, 4,000 miles away. This wastes the city's time and money. Furthermore, the influences that seek to waste our time on this are racist and not only want to discuss what the Jews are doing and only want to discuss what the Jews are doing in the Middle East. This doesn't come from a concern for Muslims, for Muslim women and children. It comes from a racist desire to slander Jews abroad, and now, here at home. How can we see that this is true? Because we're not here to discuss the 1.2 million Muslims who are currently in Chinese concentration camps, or the 400,000 Muslims in Yemen who

have been starved to death, men, women, and children. We're not here to discuss the 1,200 Alawites who were, just a few weeks ago, massacred by Islamist extremists, made to crawl around like dogs while they were butchered in front of their families. The radical Islamists uploaded those videos to social media just like they did on October 7th. They are proud of it, but we're not here to talk about that, or the one million Afghan refugees who were expelled last year from Pakistan. These are foreign events that nobody wants to discuss. They just want to discuss Israel and what Israel is doing to get their hostages back and secure their borders from those same radical Islamists. It's only news when it's Jews. And in the 1930s, the ***** boycotted Jewish shops and now, unbelievably, similar sentiments are being pushed on the city of Grass Valley. Please, please, I implore you to avoid acting in the same way the ***** did 100 years ago. Grass Valley has always been a place of openness and tolerance, and that should not change now. You will hear from people tonight who proclaim to be Jewish, but I assure you they are no more Jewish than Hunter Biden is Catholic. Do the right thing, stay focused, stay strong, and stay local, please.

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New voicemail message

Time: Tuesday, March 25 2025 6:14 PM

From: [REDACTED]

Duration: 1 minute 21 seconds

Voicemail box: 8880

Transcript: My name is Maria Blix. I live at 131 Northridge Drive in Cross Valley. I just am really disappointed in our council members that we would give in to an organization and that there would be monetary support and a decision made to support this Palestinian group that we know very little about, who is leading their charge, you know, who's in charge of them. And it goes beyond our town's jurisdiction. And I just asked that you would do the research with these people, who they're supported by. From what I understand, they're supported by the Muslim Brotherhood Ultimately, backed by Hamas, they want to boycott Israeli businesses, and their tenants include annihilating the Jewish nation. All I ask is that the Council investigate this group, their sponsors, and where they get their funding. We don't have any business getting

involved in this and using taxpayer dollars to support this Palestinian group. Okay.
Thank you. Bye.

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New voicemail message

Time: Tuesday, March 25 2025 5:49 PM

From: [REDACTED]

Duration: 46 seconds

Voicemail box: 8880

Transcript:

Hi, my name is Amy and I live across the street from the Mill Street parking lot at 326 Mill Street. My house does not have a driveway. I bought my house over six years ago and at that time there was an empty lot across for me and plenty of street parking. Since then the city has built a parking lot in that empty lot and when they did this it took away available street parking for myself and my neighbors. Now there is a lot with no overnight parking and a 3-hour time limit for daytime use. I walk past this parking lot every day and it sits empty quite often. I would like to ask the City Council to consider giving the nearby residents space in the lot to safely park our cars. Thank you.

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Mailbox Capacity: 97/99 available

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Taylor Whittingslow

From: ELVIS CANTU - Voicemail box 8880 <noreply@voicemail.goto.com>
Sent: Tuesday, March 25, 2025 5:09 PM
To: Public Comments
Subject: Voicemail from [REDACTED] on Mar 25 2025 5:07 PM
Attachments: 1742947675-00001586.mp3

Follow Up Flag: Flag for follow up
Flag Status: Flagged



You received a new voicemail message



New voicemail message

Time: Tuesday, March 25 2025 5:07 PM

From: [REDACTED]

Duration: 45 seconds

Voicemail box: 8880

Transcript:

My name is Elvis and I live across the street from a new parking lot on Mill. I live in one of the three houses that doesn't have a driveway. I love my home and I love Grass Valley. Over the past two years, street parking on Mill has gotten tougher and tougher. I think it would be a grand gesture if the three houses across the street from the parking lot could get one or two permanent parking spots of their very own, either on the street or in the parking lot. I feel it would be easier for you to do this, and a very cool thing for you to do. Thank you for your time. 326 Mohr Street.

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Mailbox Capacity: 97/99 available

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City of Grass Valley
City Council
Agenda Action Sheet

Title: Health and Safety Code Section 13146.4 Report on Fire Inspections

CEQA: Not a project

Recommendation: That Council adopt Resolution 2025-07, which accepts the Grass Valley Fire Department report pursuant to Health and Safety Code Section 13146.4 annual inspections for 2024

Prepared by: Roque Barrera - Fire Marshal

Council Meeting Date: 04/08/2025

Date Prepared: 03/10/2025

Agenda: Consent

Background Information: Health and Safety Code (HSC) sections 13146.2 and 13146.3 require fire departments to conduct inspections of specific occupancies once a year. HSC section 13146.4 then requires those fire departments to report annually to the City Council on their compliance with those sections. Appendix 1, attached to this staff report, details the Grass Valley Fire Department’s 2024 inspections as required by HSC 13146.4.

Council Goals/Objectives: Exceptional Public Safety consistent with the City of Grass Valley Strategic Plan

Fiscal Impact: N/A

Funds Available: N/A

Account #: N/A

Reviewed by:

Attachments: Resolution 2025-07, and Appendix 1

RESOLUTION NO. 2025-07

A RESOLUTION OF THE COUNCIL OF THE CITY OF GRASS VALLEY, CALIFORNIA ACKNOWLEDGING RECEIPT OF A REPORT MADE BY THE FIRE CHIEF OF THE GRASS VALLEY FIRE DEPARTMENT REGARDING THE INSPECTION OF CERTAIN OCCUPANCIES REQUIRED TO PERFORM ANNUAL INSPECTIONS IN SUCH OCCUPANCIES PURSUANT TO SECTIONS 13146.2 AND 13146.3 OF THE CALIFORNIA HEALTH AND SAFETY CODE.

WHEREAS, California Health & Safety Code Section 13146.4 was added in 2018, and became effective on September 27, 2018; and,

WHEREAS, California Health & Safety Code Sections 13146.2 and 13146.3 requires all fire departments, including the Grass Valley Fire Department, that provide fire protection services to perform annual inspections in every building used as a public or private school, hotel, motel, lodging house, apartment house, and certain residential care facilities for compliance with building standards, as provided and,

WHEREAS, California Health & Safety Code Section 13146.2 requires all fire departments, including the Grass Valley Fire Department, that provide fire protection services to report annually to its administering authority on its compliance with Sections 13146.2 and 13146.3 and,

WHEREAS, the Council of the City of Grass Valley intends this Resolution to fulfill the requirements of the California Health & Safety Code regarding acknowledgment of the Grass Valley Fire Department's compliance with California Health and Safety Code Sections 13146.2 and 13146.3.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Grass Valley that said Council expressly acknowledges the measure of compliance of the Grass Valley Fire Department with California Health and Safety Code Sections 13146.2 and 13146.3 in the area encompassed by the City of Grass Valley, **as follows for 2024 "Appendix 1":**

A. EDUCATIONAL GROUP E OCCUPANCIES:

Educational Group E Occupancies are generally those public and private schools, used by more than six (6) persons at any one time for educational purposes through the 12th grade. Within the City of Grass Valley, there lie eight (12) Group E Occupancies, buildings, structures and/or facilities.

During calendar year 2024, the Grass Valley Fire Department performed the annual inspection of twelve (12) Group E Occupancies, buildings, structures and/or facilities. This is an inspection rate of 100% for this reporting period.

B. INSTITUTIONAL GROUP I OCCUPANCIES:

Institutional Group I Occupancies, for the purposes of this resolution, are generally those occupancies in which people, cared for or living in a supervised environment and having physical limitations because of health or age are harbored for medical treatment or other care or treatment. Within the City of Grass Valley, there lies one (1) Group I occupancy, building, structure, and/or facility.

During calendar year 2024, the Grass Valley Fire Department performed the annual inspection of one (1) Group I Occupancy, building, structure and/or facility. This is an inspection rate of 100% for this reporting period.

C. RESIDENTIAL GROUP R OCCUPANCIES:

Residential Group R Occupancies, for the purposes of this resolution, are generally those occupancies containing sleeping units, and include hotels, motels, apartments (three units or more), etc. as well as other residential occupancies (including eleven (11) residential care facilities elderly, seven (7) residential care facilities elderly with memory care facilities, one (1) transitional housing facility). These residential care facilities have a number of different sub-classifications, and they may contain residents or clients that have a range of needs, including those related to custodial care, mobility impairments, cognitive disabilities, etc. The residents may also be non-ambulatory or bedridden.

During calendar year 2024, the Grass Valley Fire Department performed the annual inspection of eleven (11) of eleven (11) R-2.1 RCFE facilities (100%), seven (7) of seven (7) R-2.1 / I-2 RCFE with memory care facilities (100%), one (1) of one (1) R-2.1 / R-1 transitional housing facility (100%), eight (8) of eight (8) R-1 hotel/motel facilities (100%), and one hundred forty-five (146) of one hundred forty-six (146) R-2 apartment buildings (100%) resulting in an overall inspection rate of 100% for the reporting period.

Adopted as a resolution of the City Council of the City of Grass Valley at a meeting thereof held on the 8th, day of April 2024, by the following vote:

- AYES:
- NOES:
- ABSENT:
- ABSTAINING:

Hilary Hodge, Mayor

ATTEST:

APPROVED AS TO FORM:

Taylor Day, City Clerk

David Ruderman, City Attorney

Attachments:

- Appendix 1 – 2024 Report

Appendix 1 2024

EDUCATIONAL GROUP E OCCUPANCIES:

Educational Group E Occupancies are generally those public and private schools, used by more than six (6) persons at any one time for educational purposes through the 12th grade. Within the City of Grass Valley, there lie twelve (12) Group E Occupancies, buildings, structures and/or facilities.

During calendar year 2024, the Grass Valley Fire Department performed the annual inspection of twelve (12) Group E Occupancies, buildings, structures and/or facilities. This is an inspection rate of 100% for this reporting period.

INSTITUTIONAL GROUP I OCCUPANCIES:

Institutional Group I Occupancies, for the purposes of this resolution, are generally those occupancies in which people, cared for or living in a supervised environment and having physical limitations because of health or age are harbored for medical treatment or other care or treatment. Within the City of Grass Valley, there lies one (1) Group I occupancy, building, structure, and/or facility.

During calendar year 2024, the Grass Valley Fire Department performed the annual inspection of one (1) Group I Occupancy, building, structure and/or facility. This is an inspection rate of 100% for this reporting period.

RESIDENTIAL GROUP R OCCUPANCIES:

Residential Group R Occupancies, for the purposes of this resolution, are generally those occupancies containing sleeping units, and include hotels, motels, apartments (three units or

Appendix 1 2024

more), etc. as well as other residential occupancies (including eleven (11) residential care facilities elderly, seven (7) residential care facilities elderly with memory care facilities, one (1) transitional housing facility). These residential care facilities have a number of different sub-classifications, and they may contain residents or clients that have a range of needs, including those related to custodial care, mobility impairments, cognitive disabilities, etc. The residents may also be non-ambulatory or bedridden.

During calendar year 2024, the Grass Valley Fire Department performed the annual inspection of eleven (11) of eleven (11) R-2.1 RCFE facilities (100%), seven (7) of seven (7) R-2.1 / I-2 RCFE with memory care facilities (100%), one (1) of one (1) R-2.1 / R-1 transitional housing facility (100%), eight (8) of eight (8) R-1 hotel/motel facilities (100%), and one hundred forty-five (146) of one hundred forty-six (146) R-2 apartment buildings (100%) resulting in an overall inspection rate of 100% for the reporting period.



City of Grass Valley City Council Agenda Action Sheet

Title: Nevada County Transportation Commission FY 2025/26 Overall Work Program Approval

CEQA: N/A - Not a Project

Recommendation: That Council: 1) review the projects proposed for inclusion in the Nevada County Transportation Commission FY 2025/26 Overall Work Program, 2) adopt a Resolution approving the projects for inclusion in the Nevada County Transportation Commission Overall Work Program

Prepared by: Bjorn P. Jones, PE, City Engineer

Council Meeting Date: 04/08/2025

Date Prepared: 04/03/2025

Agenda: Consent

Background Information: Staff for Nevada County Transportation Commission (NCTC) have prepared an Overall Work Program (OWP) for FY 2025/26. The OWP is prepared on an annual basis as a scope of work and budget for transportation planning activities for the fiscal year. The OWP is a requirement of NCTC's Master Fund Transfer Agreement with the State of California and includes the following three components: Introduction, Work Elements, and Budget.

The purpose of the proposed OWP for FY 2025/26 is to: 1) show how the Federal Planning Factors will be integrated into the OWP work elements; 2) outline continuing and new major activities; and 3) present a summary of the expected revenues and expenditures for the fiscal year. A final OWP will be presented at the May 21, 2025 NCTC meeting.

Adoption of the attached Resolution is recommended, approving the proposed projects for inclusion in the Nevada County Transportation Commission Overall Work Program.

Council Goals/Objectives: The NCTC Overall Work Program executes portions of work tasks towards achieving/maintaining Strategic Goal - City Infrastructure Investment.

Fiscal Impact: N/A

Funds Available: N/A

Reviewed by: City Manager

Account #: N/A

RESOLUTION NO. R2025-08

**RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GRASS VALLEY
APPROVING THE PROJECTS PROPOSED FOR INCLUSION IN THE NEVADA COUNTY
TRANSPORTATION COMMISSION’S FY 2025/26 OVERALL WORK PROGRAM**

WHEREAS, on October 8, 1991, the Council did adopt Resolution No. 91-172, which authorized the Mayor to execute a Memorandum of Understanding on behalf of the City of Grass Valley with the Nevada County Transportation Commission relating to regional transportation planning; and

WHEREAS, in accordance with the above referenced Memorandum of Understanding, the Nevada County Transportation Commission has submitted the projects to be included in its FY 2025/26 Overall Work Program for the review and approval of the City Council of the City of Grass Valley.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GRASS VALLEY:

1. That the City Council hereby acknowledges its approval of the projects proposed for inclusion in the FY 2025/26 Overall Work Program of the Nevada County Transportation Commission as submitted; and
2. That the City Council encourages the Nevada County Transportation Commission to continue its efforts to coordinate the regional transportation planning process and to work closely with the staff of the City of Grass Valley to identify and resolve issues that are of common concern.
3. That the City Council encourages the Nevada County Transportation Commission to continue its efforts to analyze the current fixed route/paratransit delivery model and examine alternative delivery options, such as microtransit, micro-mobility, and dial-a-ride to determine the most cost-effective way to provide enhanced transit services.

ADOPTED by the City Council of the City of Grass Valley at a regular meeting held the 8th day of April, 2025, by the following vote:

AYES:
NOES:
ABSTAIN:
ABSENT:

Hillary Hodge, MAYOR

APPROVED AS TO FORM:

ATTEST:

Michael G. Colantuono, CITY ATTORNEY

Taylor Whittingslow, CITY CLERK

LOU CECI – Nevada City City Council
SUSAN HOEK – Nevada County Board of Supervisors
TOM IVY – Grass Valley City Council, Chair
JAY STRAUSS – Member-At-Large
DUANE STRAWSER – Member-At-Large
ROBB TUCKER – Nevada County Board of Supervisors, Vice Chair
JAN ZABRISKIE – Town of Truckee




MICHAEL WOODMAN, Executive Director
AARON HOYT, Deputy Executive Director

Grass Valley • Nevada City

Nevada County • Truckee

File: 1030.0

MEMORANDUM

TO: Nevada County Transportation Commission
FROM: Michael Woodman, Executive Director 
SUBJECT: Draft FY 2025/26 Overall Work Program
DATE: March 19, 2025

RECOMMENDATION: Provide comments on Nevada County Transportation Commission's (NCTC) Draft FY 2025/26 Overall Work Program (OWP).

BACKGROUND: Annually each Regional Transportation Planning Agency (RTPA) develops an OWP for formal adoption by its governing board. The OWP outlines the scope of work and budget for various transportation planning activities. The OWP is a requirement of NCTC’s Master Fund Transfer Agreement with the State of California and includes the following three components: Introduction, Work Elements (W.E.), and Budget. The purpose of this draft OWP for FY 2025/26 is:

- 1. To show how the Federal Planning Factors will be integrated into the OWP Work Elements.
- 2. To outline continuing and new activities.
- 3. To present a summary of the expected revenues and expenditures for the fiscal year.

A final OWP will be presented for approval at the May 21, 2025 NCTC meeting.

FEDERAL PLANNING FACTORS FOR FY 2024/25

As shown in the chart on page I-6 in the Draft OWP, the Federal Planning Factors that are included in Fixing America’s Surface Transportation Act (Section 134(h), FAST Act, 2015) have been integrated into NCTC’s FY 2025/26 OWP:

- 1. Support the economic vitality of the region, especially by enabling global competitiveness, productivity, and efficiency.
- 2. Increase the safety of the transportation system for motorized and non-motorized users.
- 3. Increase the security of the transportation system for motorized and non-motorized users.
- 4. Increase the accessibility and mobility of people and for freight.

5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
7. Promote efficient system management and operation.
8. Emphasize the preservation of the existing transportation system.
9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
10. Enhance travel and tourism.

OWP WORK ELEMENTS

NCTC's OWP integrates the Commission's organizational activities of Planning, Communication, and Coordination into two broad Work Elements: Communication and Coordination, and Regional Planning. Each Work Element is further subdivided into projects that accomplish specific tasks or objectives.

Status of projects in the prior FY 2024/25 OWP:

- Reenvisioning Transit in Western Nevada County: This planning study is carried over into the FY 2025/26 OWP. The consultant procurement process will begin in March 2025 and the selected consultant will conduct the analysis during FY 2025/26 and complete the planning effort in FY 2026/27. Completion of the Draft Report is anticipated by May of 2026 and the completion of the Final Report is anticipated in September of 2026. (WE 2.3.4)
- Zion St. Mobility/School Access Study: This planning study is on-going and carried over into the FY 2025/26 OWP. The consultant will complete the analysis during FY 2025/26. Completion of the Draft Report is anticipated by November of 2025 and the completion of the Final Report is anticipated in March of 2026. (WE 2.3.4)
- Nevada County Regional Transportation Plan (RTP) Update: The Draft 2045 Nevada County Regional Transportation Plan is scheduled to be presented at the May 2025 NCTC meeting and the Final Report adopted in July 2025. This planning effort and associated work element are not carried forward into FY 2025/26. (WE 2.1.1)
- Eastern Nevada County Transit Development Plan: Complete. The final report was accepted as complete in January 2025. (WE 2.3.3)
- Nevada County Local Road Safety Plan: Complete. The final report was accepted as complete in January 2025. (WE 2.4.1)
- Rural Counties Task Force Rural Induced Demand Study: The Final Report was completed in February 2025 and public outreach activities will continue through May of FY 2024/25. This planning effort and associated work element is not carried forward into the FY 2025/26 OWP. (WE 2.4.4)
- Zero Emission Vehicle Transition Plan for County of Nevada: Complete. The final report was completed in September 2024. This planning effort and associated work element are not carried forward into the FY 2025/26 OWP. (WE 2.4.6)

The following ongoing activities have been integrated into the Draft FY 2025/26 OWP:

1. State Transportation Improvement Program Projects:

- A. SR 49 Corridor Improvement Project from La Barr Meadows Road to McKnight Way: NCTC will continue to participate with Caltrans District 3 in the preparation of Plans, Specifications, and Estimates and Right-of-Way for a future construction project. (WE 2.2).
- B. SR 49 Grass Valley Evacuation Route Project: NCTC will continue to participate in the preparation of the Project Approval / Environmental Documentation and Plans, Specifications, and Estimates and Right-of-Way for a future construction project.

2. Planning/Administration Projects:

- A. Congestion Mitigation and Air Quality (CMAQ) Funding: Monitor project activities as shown on the multi-year project listing. (WE 2.1)
- B. Air Quality Conformity Process: Monitor changes in EPA requirements. (WE 2.1)
- C. Airport Land Use Commission Planning and Reviews: NCTC staff will continue to serve as staff for the Nevada County and Truckee Tahoe Airport Land Use Commissions and will conduct reviews of projects near the airports for consistency with the adopted Airport Land Use Compatibility Plans. (WE 2.4.2)
- D. Rural Counties Task Force Chair Activities & CARL Administration: Starting in July 2024 the NCTC Deputy Executive Director will serve as the Chairman of the Rural Counties Task Force (RCTF). The State of California contains 26 rural counties, which generally have populations of less than 250,000 and do not have a single urbanized area greater than 50,000. Rural counties provide food, fiber, timber, and mineral products for California industry and residents, as well as recreation for urban residents and tourists. In order to provide a direct opportunity for the small counties to remain informed, have a voice, and become involved with changing statewide transportation policies and programs, a task force was formed in 1988 as a joint effort between the California Transportation Commission (CTC) and the rural counties.

There are 26 rural county Regional Transportation Planning Agencies (RTPAs) or Local Transportation Commissions represented on the Rural Counties Task Force (RCTF). The RCTF is an informal organization with no budget or staff that generally meets every other month. A member of the CTC usually acts as liaison to the RCTF, and CTC and Caltrans staff typically attend these meetings to explain and discuss changing statewide transportation issues that may be of concern to the rural counties.

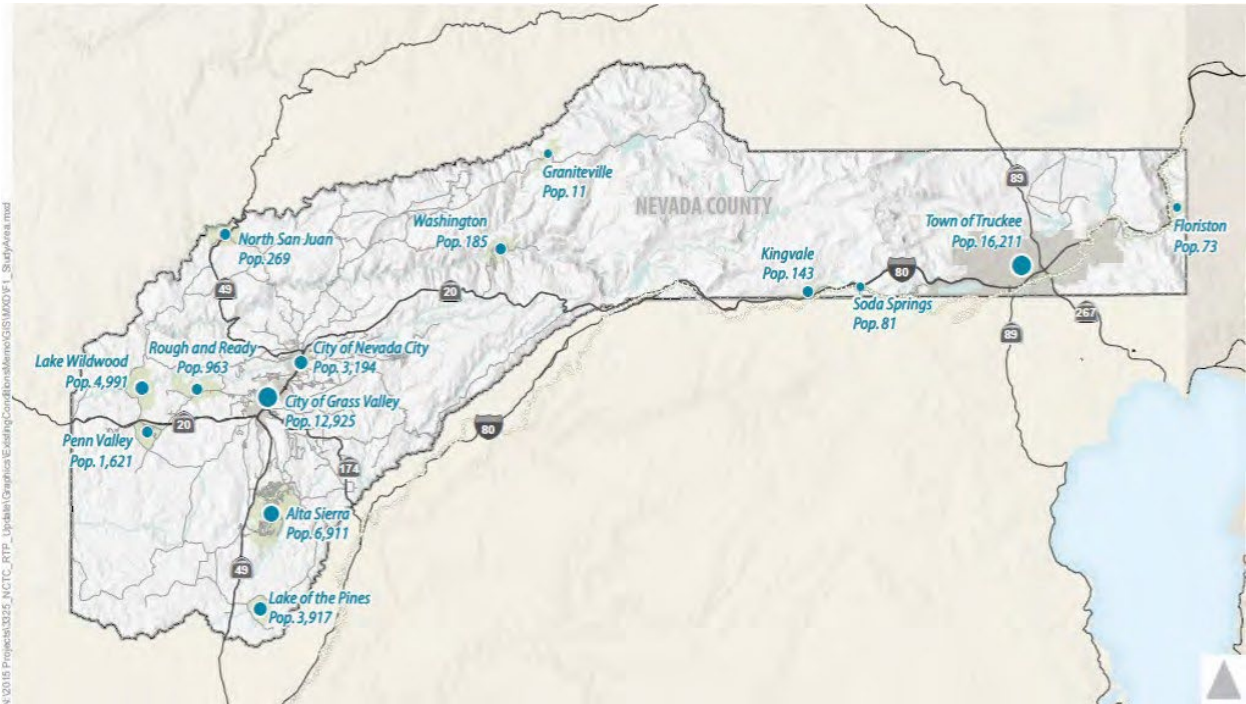
The California Academy for Regional Leaders (CARL) is a program developed by the California Association of Councils of Governments (CALCOG). The CARL program supports participants in their efforts to strengthen their organizations and increase their personal effectiveness by helping them develop leadership skills, expand their knowledge of

the systems that impact their agencies, and build state-wide professional networks. One of the duties of the RCTF Chairman is to coordinate scholarships to the CARL program, funded with State Regional Planning Assistance funds. (WE 2.4.5)

To assist Caltrans in the review of the NCTC FY 2024/25 OWP, staff has included a list of Rural Planning Assistance (RPA) eligible activities in each work element that uses RPA funds. As the name indicates, RPA funds are to be used for planning. RPA funds cannot be used for project development, project study reports, project implementation, or transit administration.

attachments

Nevada County Transportation Commission



2025/26 Overall Work Program

Draft – March 19, 2025

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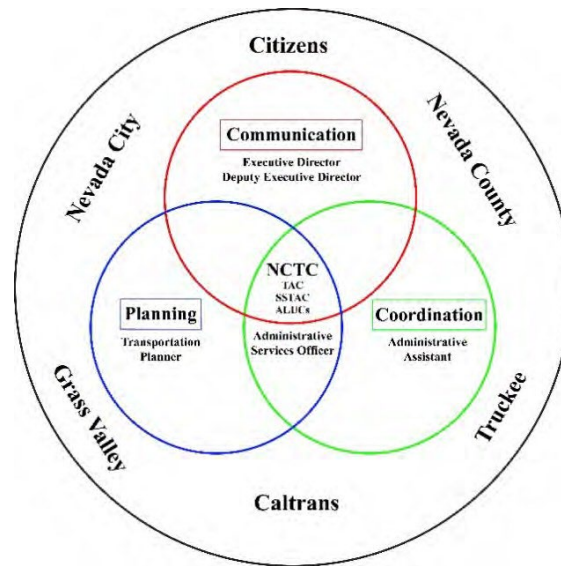
MISSION STATEMENT

The mission of the Nevada County Transportation Commission is to plan, communicate, and coordinate with the citizens and decision makers of Grass Valley, Nevada City, Nevada County, Town of Truckee, and with Caltrans to identify transportation needs, propose solutions, and assist in implementing projects to create a balanced regional transportation system, while protecting the rural qualities and historic character of Nevada County.

Activities to Achieve the Mission Include, But are not Limited to, the Following:

- ✓ *NCTC develops a Regional Transportation Plan (RTP) which includes the actions, funding recommendations, and policy direction necessary to meet the needs of each transportation system component in the region.*
- ✓ *NCTC interacts with the community through workshops, news media outlets, the NCTC website, and through social media platforms.*
- ✓ *NCTC develops and adopts a Regional Transportation Improvement Program (RTIP) that is consistent with the RTP.*
- ✓ *NCTC conducts a comprehensive planning process in the development of its annual Overall Work Program so that funds expended on planning projects will implement the goals of the RTP.*
- ✓ *NCTC reviews transportation plans and programs of member agencies and endorses them based on consistency with the RTP and RTIP. In keeping with this responsibility, NCTC strives to be creative in assisting the region in developing the revenues to construct improvement projects.*
- ✓ *NCTC communicates and participates in workshops with Caltrans on proposed projects to be developed in the County of Nevada to ensure that the policies and goals of the RTP are implemented.*
- ✓ *NCTC coordinates with regional transportation planning agencies on legislation and statewide policy issues to ensure the region receives appropriate attention and funding from the State of California and the Federal government.*
- ✓ *NCTC participates in interregional planning projects to ensure Nevada County projects support both regional and statewide transportation goals.*
- ✓ *NCTC administers Transportation Development Act funds to ensure all statutory requirements are met, including the identification of the region's transit needs.*
- ✓ *NCTC manages Regional Surface Transportation Program funds, Regional Transportation Mitigation Fee funds, Congestion Mitigation and Air Quality Improvement Program funds, Carbon Reduction Program, and Regional Improvement Program funds in accordance with Federal acts and statutes promulgated by the State of California, selecting and funding eligible transportation improvement projects based upon those that are most effective and beneficial to the region.*

Nevada County Transportation Commission Organization Flow Chart



Nevada County Transportation Commission (NCTC)

NCTC is a Regional Transportation Planning Agency (RTPA) created pursuant to Title 7.88 of the State of California Government Code, Section 67920. As the RTPA for Nevada County, NCTC coordinates transportation planning for Grass Valley, Nevada City, Nevada County, and the Town of Truckee. The NCTC board has seven members. Four members are appointed by the Board of Supervisors and three are appointed by the incorporated municipalities in the County. The Board of Supervisors appoints two of its members and two County at-large representatives. The municipalities appoint three city/town council members; one each from Nevada City, Grass Valley, and the Town of Truckee.

Technical Advisory Committee (TAC)

The TAC is made up of representatives of public transit operators, local public works and planning departments, public airport operators, the air pollution control district, and Caltrans. The Committee provides technical input on transportation issues and ensures there is coordination and cooperation in the transportation planning process.

Social Services Transportation Advisory Council (SSTAC)

The SSTAC is made up of potential transit users who are representatives of the general public; seniors and/or disabled; social service providers for seniors, disabled, and persons of limited means; local social service and consolidated transportation providers; and Truckee residents who represent the senior and Latino communities. The goal of the SSTAC is to maintain and improve transportation services to the residents of Nevada County, particularly the underserved and under-represented members of the community, such as the elderly and disabled. The SSTAC recommends action to the Commission relative to the unmet transit needs findings, and advises the Commission on transit issues, including coordination and consolidation of specialized transportation services.

Airport Land Use Commissions (ALUCs)

The Nevada County Transportation Commission has been designated as the Airport Land Use Commission for the Nevada County Airport and provides staff for the Truckee Tahoe ALUC. The purpose of Airport Land Use Commissions is to protect public health, safety, and welfare by ensuring the orderly expansion of airports and adoption of land use measures that minimize the public's exposure to excessive noise and safety hazards within the areas around the airports, to the extent that these areas are not already devoted to incompatible uses.

Nevada County Demographics

As of January 1, 2024, the population of Nevada County was estimated at 100,177. The largest municipality is Truckee with a population of 16,778, followed by Grass Valley at 13,400 and Nevada City at 3,347. The population of the unincorporated portion of the County was 66,652. The Race and Ethnicity data for Nevada County on Census.gov reported the racial makeup of the county as 83.7% White, followed by 10.2% Hispanic, 1.4% Asian, 1.0% Native American, 0.4% Black or African American, 0.1% Native Hawaiian and Pacific Islander, and 3.4% Some Other Race. The data at Census.gov indicates that 11% of the population was below the poverty level.

OVERALL WORK PROGRAM INTRODUCTION

NCTC annually adopts a budget through the preparation of an Overall Work Program (OWP). This work program includes specific “Work Elements” that describe the planning projects and associated activities that are to be conducted, and identifies the type of funds that will pay for the expenditures, such as Rural Planning Assistance (RPA), Local Transportation Funds (LTF), Regional Surface Transportation Program (RSTP), Planning, Programming, and Monitoring (PPM), or Federal Transit Administration (FTA). A Memorandum of Understanding (MOU) between NCTC, the Cities of Grass Valley and Nevada City, the Town of Truckee, and the County of Nevada provides the framework for NCTC’s coordination of regional transportation planning with local governments in Nevada County. The Commission staff prepares a draft OWP and in accordance with the MOU, solicits and integrates comments from each of the jurisdictions. The proposed work program is then submitted to the Commission for approval and forwarded to Caltrans. Caltrans, as the grantor of Rural Planning Assistance funds and Federal Transit Assistance funds, approves the OWP. The budget reflects the on-going regional transportation planning process in Nevada County. Major concerns of each of the jurisdictions and Caltrans are reflected in the elements and levels of funding. The OWP is updated each year to report on the progress of identified projects, propose new or continuing projects for the ensuing year, and to provide an estimate of the required funding of the OWP work elements.

Public Participation

Public involvement is a major component of the transportation planning and programming processes. NCTC makes a concerted effort to solicit public input from all Nevada County residents, including under- represented groups, in many aspects of transportation planning within Nevada County. Specific examples are listed below:

- NCTC maintains a website (www.nctc.ca.gov), a Facebook page, and a Twitter account to keep the public informed of transportation planning and programming efforts underway in Nevada County. Agendas are posted on the bulletin boards of local jurisdictions and emailed to mobile home parks, residential homeowners associations, senior centers, environmental advocates, associations representing the private sector, and individuals that have asked to be included on the distribution list. Citizens are encouraged to attend and speak at NCTC meetings on any matter included for discussion on the agenda at that meeting.
- Articles on the preparation of the Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP), as well as the public comment periods, are posted on the NCTC website.
- Copies of the Draft RTP are made available for review at the main public libraries in western and eastern Nevada County, as well as on the NCTC website.
- Press releases are sent to the media establishments in western and eastern Nevada County announcing the Draft RTP is available for review and comment and noting some key findings.
- Public hearings are held and noticed in the main newspapers in western and eastern Nevada County prior to adoption of the RTP and RTIP.
- Each year public notifications are sent out to encourage participation in transportation planning processes, such as the annual unmet transit needs public hearing and numerous public workshops relating to the transportation projects and planning activities of NCTC.
- In accordance with AB52, NCTC conducts outreach and Tribal Consultation on any projects for which NCTC is lead agency and files a Notice of Preparation, Notice of Mitigated Negative Declaration or Notice of Negative Declaration. While there are currently no federally recognized tribes located within Nevada County, NCTC consults with the Native American Heritage Commission to identify Native American tribal organizations with historic or cultural interests regarding lands in Nevada County. These groups include but are not limited to the Nisenan of the Nevada City Rancheria and United Auburn Indian Community (UAIC).
- NCTC consults with USDA Forest Service Tahoe National Forest and Bureau of Land Management.

Regional Issues, Needs, and Goals

The main transportation issues in western Nevada County are related to providing adequate multimodal transportation infrastructure and services to meet the needs of the County, while maintaining and enhancing the rural character and environmental qualities of the area. In western Nevada County, interregional traffic adds to the existing challenge and need to maintain and improve the transportation system.

In eastern Nevada County, the issues also stem from the challenges to meet the needs related to the high volumes of traffic generated by travelers taking advantage of the world-class recreational opportunities available in the Truckee-North Tahoe area. In addition to discretionary recreation demand travel, high housing costs have increased daily commuter trips into and out of the Truckee/North Tahoe region. To address these issues requires a multimodal and multijurisdictional approach to transportation planning in the region.

Acquiring adequate and timely funding for transportation improvements is the central need within all of the Nevada County issues. Implementation of highway and regional roadway improvements will be key to providing efficient operations, while improving safety and air quality. The 2020 Census reported that approximately 28.5% of the county population was over 65 years of age, between 2010 and 2020 that population increased from 19.6% to 28.5%, and it is projected that by 2030 this population is expected to increase to over 40%. As the population of residents over the age of 65 increases, it will result in increased demand for public transit services in Nevada County. Additional local, state, and federal transit operating and capital revenues, will be necessary in order to meet the additional demand placed on the public transit systems.

Transportation issues facing Nevada County which have been identified as regionally significant include the following:

- Insufficient state, federal, and local transportation revenues
- Air quality/greenhouse gas emission reductions
- Coordination of land use, air quality, and transportation planning
- Providing and maintaining a transportation system that enhances safety, the efficient movement of all people, goods, services, and information, and environmental quality
- Efficient implementation of new technologies, including zero-emission bus fleets and charging technology
- High cost of housing and short-term rentals increasing commute trips and distances
- Improvements to the regional transportation system to ensure safe and efficient emergency evacuation

Recognition of these issues leads to the overall goal of the Regional Transportation Plan, which is to provide and maintain a transportation system that enhances safety, the efficient movement of all people, goods, and services, and environmental quality. In the Policy Element this overarching goal is divided into the following four goals:

- 1) Provide for the safe and efficient movement of all people, goods, services, and information;
- 2) Reduce adverse impacts on the natural, social, cultural, and historical environment and the quality of life;
- 3) Develop an economically feasible multimodal transportation system;
- 4) Create and maintain a comprehensive, multi-modal transportation system to serve the needs of the County.

The following list of projects and planning efforts indicates progress made toward implementing the goals of the Regional Transportation Plan:

- Support of ongoing operation of Nevada County Connects, Truckee Tahoe Area Regional Transit, and associated paratransit services
- SR 49-La Barr Meadows Road Signalization and Widening project, constructed 2013
- SR 20/49 Dorsey Drive Interchange project, constructed 2014
- SR 49 Bicycle and Pedestrian Improvement project, constructed 2014
- SR 49 Signal Pre-emption, programmed 2012 STIP, constructed 2015/16
- SR 89 “Mousehole” Grade Separation, programmed 2012 STIP, constructed 2015/16
- Northeast Grass Valley Sidewalk Improvements, constructed 2015/16
- Newtown Road Class II/III Bike Lanes, constructed 2016/17
- Nevada County Active Transportation Plan, 2018/19
- SR 49 Multimodal Corridor Plan, 2019/20
- SR 174/20 Intersection Analysis, 2019/20
- NCTC Travel Demand Model Update, 2019/20
- Town of Truckee Transit Center Relocation Feasibility Study, 2020/21
- Western Nevada County Transit Development Plan 2021/22
- SR 49 Comprehensive Multimodal Corridor Plan 2021/22
- SR 49-La Barr Meadows to McKnight Way, Environmental Impact Report 2021/22, Plans, Specifications, and Estimates 2023/24
- SR-49 Interstate 80 to McKnight Way Safety Needs Assessment 2021/22
- Ready Nevada County Extreme Climate Event Mobility and Adaptation Plan, 2021/22
- Legacy Trail – Brockway Multi-use Path, Construction 2021/22
- Legacy Trail Phase 4, Plans, Specifications, and Estimate, 2021/22
- Church Street Extension and Trout Creek Restoration, Plans Specifications, and Estimates 2021/22
- Truckee Railyard Mobility Hub, Right of Way Acquisition, Plans Specifications, and Estimate, 2022/23
- West River Streetscape Improvement Project, Plans, Specifications, and Estimate, 2022/23
- Town of Truckee Microtransit Feasibility Study 2022/23
- Coldstream/I-80 Off Ramp Roundabout, Construction 2022/23
- SR 20 Omega Curve Correction, Planning, Environmental, and Design completed. Construction completion target: Winter 2025.
- SR 49 Multi-modal Corridor Improvement Project was awarded \$13.8 million from the Active Transportation Program, 2022/23. Construction to begin FY 2026/27.
- SR 174/49/20 Roundabout and Active Transportation Safety Project was awarded \$5.4 million from the Active Transportation Program, 2022/23. Construction to begin FY 2026/27.
- SR 49 Corridor Improvement Project: 2023/24 - \$14.6 million awarded of Trade Corridor Enhancement Program (TCEP) funding for southbound improvements between McKnight Way Interchange and La Barr Meadows Road. Construction to begin FY 2025/26.
- SR 49 Grass Valley Wildfire Evacuation Route Project: 2023/24 - \$35 million awarded of Local Transportation Climate Adaptation Program (LTCAP) funding. Construction to begin FY 2025/26.

Federal Planning Factors:

As shown in the chart below, the Federal Planning Factors have been integrated into NCTC's FY 2023/24 OWP:

1. Support the economic vitality of the region, especially by enabling global competitiveness, productivity, and efficiency.
2. Increase the safety of the transportation system for motorized and non-motorized users.
3. Increase the security of the transportation system for motorized and non-motorized users.
4. Increase the accessibility and mobility of people and for freight.
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth, housing, and economic development patterns.
6. Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
7. Promote efficient system management and operation.
8. Emphasize the preservation of the existing transportation system.
9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
10. Enhance travel and tourism.

<u>Planning Factors</u>	WE 1.1	WE 1.2	WE 2.1	WE 2.1.1	WE 2.2	WE 2.3	WE 2.3.3	WE 2.3.4	WE 2.4	WE 2.4.1	WE 2.4.2	WE 2.4.3	WE 2.4.4	WE 2.4.5	WE 2.4.6
Economic Vitality	X	X	X	X	X	X	X	X	X					X	
Safety	X		X	X	X	X	X	X	X	X	X	X	X	X	
Security	X		X	X	X	X	X	X	X				X	X	
Accessibility	X		X	X	X	X	X	X	X			X	X	X	
Environment	X		X	X	X	X	X	X	X	X			X	X	X
Connectivity	X		X	X	X	X	X	X	X		X		X	X	
System Management & Operation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Preservation	X		X	X	X	X	X	X	X		X		X	X	
Resiliency & Reliability	X	X	X	X	X	X	X	X	X				X	X	X
Travel & Tourism	X		X	X	X	X	X	X	X					X	

WORK ELEMENT 1 - COMMUNICATION AND COORDINATION

Item # 5.

Public involvement is a major component of NCTC's planning process. The activities and products from Project 1.1, General Services and Communication, are intended to provide the public with complete information and timely notices, thereby giving full public access to key decisions.

Work Element 1 incorporates the following activities that are an integral part of accomplishing NCTC's Mission:

- *NCTC interacts with the community through workshops, news media outlets, NCTC webpage, and social media platforms.*
- *NCTC conducts a comprehensive planning process in the development of its annual Overall Work Program so that funds expended on planning projects will implement the goals of the RTP.*

NCTC has the statutory responsibility to administer Transportation Development Act (TDA) funds, and to ensure that all expenditures of TDA funds are in conformity with the Regional Transportation Plan (RTP). NCTC also administers funds received from the Regional Surface Transportation Program (RSTP) and the Regional Transportation Mitigation Fee (RTMF) program. The work performed under Project 1.2, Fiscal Administration, has been incorporated into the NCTC Mission as follows:

- *NCTC administers Transportation Development Act funds to ensure all statutory requirements are met, including the identification of the region's transit needs.*
- *NCTC manages Regional Surface Transportation Program funds, Regional Transportation Mitigation Fee funds and Regional Improvement Program funds in accordance with Federal acts and statutes promulgated by the State of California, selecting and funding eligible transportation improvement projects based upon those that are most effective and beneficial to the region.*

Through communication, collaboration, and public outreach activities, Work Element 1 incorporates the ten Federal Planning Factors (see page I-5) into the NCTC planning program.

Information and data developed through these activities are included in the Regional Transportation Plan and in transit planning documents.

Project 1.1 - General Services and Communication

Purpose: Conduct communication and public outreach activities. Provide administrative and financial support for the operation of the Nevada County Transportation Commission and its advisory committees through the activities listed below.

Additional/Continuing Work:

- Public information and outreach activities (LTF)
- Preparation of agendas, minutes, notices, and correspondence (LTF)
- Track legislation pertinent to the transportation planning process (LTF)
- Technical Advisory Committee (TAC) activities (LTF)
- Provide staff services to SSTAC (LTF)
- Personnel administration (LTF)
- Maintain and update the NCTC website (LTF)
- Office lease (LTF)
- Purchase equipment (LTF)
- Maintain the Commission's office and equipment (LTF)
- Press releases and social media platforms (LTF)
- Reports on legislative measures and monitor legislation that impacts transportation planning. (LTF)
- Update Conflict of Interest Code (LTF)
- Update DBE Program (LTF)
- Coordination with public safety agencies regarding the safety and security of the transportation system (LTF)
- Coordinate implementation of projects in the Regional Transportation Mitigation Fee (RTMF) Program. (LTF)
- Work with Nevada County, Grass Valley, and Nevada City to implement projects included in the multi-year Congestion Mitigation Air Quality (CMAQ) project listing. (LTF)
- Apply for FTA planning grants. (LTF)
- Annual Legislative Platform (LTF)

Products:

- Documentation of Commission and/or TAC meetings (Bimonthly)
- Executive Director's Reports (Bimonthly)
- Personnel reviews (Annual)
- FTA Section 5311 Program of Projects (Mar 26)

Budget 1.1

Revenues:		
	LTF	\$350,097.84
	RTMF	\$7,500.00
Total		\$357,597.84
Expenditures:		
	Staff	\$252,975.97
	Indirect	\$47,621.87
	Consulting	\$57,000.00
Total		\$357,597.84

Totals may not equal addition of amounts in columns due to rounding.

Indirect costs are paid with local funds (see Budget Table 5).

Project 1.2 - Fiscal Administration

Purpose: Administer funds held by NCTC in accordance with the provisions of the TDA Guidelines and State and Federal requirements through the activities listed below.

Previous Work:

- Develop and oversee Overall Work Program and annual budgets
- Oversee fiscal and performance audits, as required
- Provide assistance to claimants in completing claims and resolving audit findings and/or recommendations
- Preparation of State Controller's Annual Report
- Annual "Unmet Transit Needs" public hearing (SSTAC)
- Preparation of monthly financial reports
- Review and process claims for TDA funds
- Reports to Caltrans regarding FTA grants and RPA funds
- Update transportation/transit claim guidelines and forms
- Administer the Regional Surface Transportation Program
- Accounting/payroll
- Coordination of community transit services and funding with Consolidated Transportation Service Agencies
- Triennial Performance Audit for FYs 2021/22, 2022/23, and 2023/24

Additional/Continuing Work:

- Develop and oversee Overall Work Program and annual budgets (LTF)
- Oversee fiscal and performance audits, as required (LTF)
- Provide assistance to claimants in completing claims and resolving audit findings and/or recommendations (LTF)
- Preparation of State Controller's Annual Report (LTF)
- Annual "Unmet Transit Needs" public hearing (LTF)
- Preparation of monthly financial reports (LTF)
- Review and process claims for TDA funds (LTF)
- Reports to Caltrans regarding FTA grants and RPA funds (LTF)
- Update transportation/transit claim guidelines and forms (LTF)
- Administer the Regional Transportation Mitigation Fee Program (RTMF)
- Administer the Regional Surface Transportation Program (LTF)
- Accounting/payroll (LTF)
- Coordination of community transit services and funding with Consolidated Transportation Service Agencies (LTF)
- Administer Federal Transit Administration revenues (5311, Cares Act, and CRRSAA) (LTF)
- Administration of Senate Bill (SB) 125 funding

Products:

- Closeout FY 2024/25 OWP (Sept 25)
- State Controller's Annual Report (Dec 25)
- Manage FY 2025/26 Overall Work Program (July 25-June 26)
- Draft FY 2026/27 Overall Work Program (Mar 26)
- Final FY 2026/27 Overall Work Program (May 26)
- Completed Fiscal and Compliance Audit (Mar 26)

Project 1.2 - Fiscal Administration (continued)

- Accounting Reports/Payroll/Payment Authorizations/Tax Reports (Ongoing)
- Financial reports (Monthly)
- Findings of Apportionment (Feb 26)

Budget 1.2

Revenues:		
	LTF	\$353,630.49
	SB 125 Administration	\$20,000.00
Total		\$373,630.49
Expenditures:		
	Staff	\$263,901.86
	Indirect	\$49,678.63
	Fiscal Audits	\$60,050.00
Total		\$373,630.49

Totals may not equal addition of amounts in columns due to rounding
 Indirect costs are paid with local funds (see Budget Table 5).

NCTC has the responsibility to prepare and adopt a Regional Transportation Plan (RTP) directed to the achievement of a coordinated and balanced regional transportation system. The plan is to be action-oriented and pragmatic, considering both the short-and-long term future, and is to present clear, concise policy guidance to local and state officials. Projects 2.1 (Transportation Planning), 2.1.1 (Nevada County Regional Transportation Plan Update), 2.2 (Transportation Improvement Programs), 2.3 (Transit and Paratransit Programs), and 2.4 (Coordination of Regional Planning), are tied to the NCTC Mission by the following activities:

- *NCTC develops a Regional Transportation Plan (RTP) which includes the actions, funding recommendations, and policy direction necessary to meet the needs of each transportation system component in the region.*
- *NCTC develops and adopts a Regional Transportation Improvement Program that is consistent with the RTP.*
- *NCTC reviews transportation plans and programs of member agencies and endorses them based on consistency with the RTP and RTIP. In keeping with this responsibility, the NCTC strives to be creative in assisting the region in developing the revenues to construct improvement projects.*
- *NCTC communicates and participates in workshops with Caltrans on proposed projects to be developed in the County of Nevada to ensure that the policies and goals of the RTP are implemented.*
- *NCTC coordinates with regional transportation planning agencies on legislation and statewide policy issues to ensure the region receives appropriate attention and funding from the State of California and the Federal government.*
- *NCTC participates in interregional planning projects to ensure Nevada County projects support both regional and statewide transportation goals.*

The following activities and products included in Work Element 2 are appropriate uses of Rural Planning Assistance Funds:

- ✓ Participate in Federal and State Clean Air Act transportation related air quality planning activities. (Projects 2.1 and 2.2)
- ✓ Develop and/or modify tools that allow for better assessment of transportation impacts on community livability and emergency preparedness (e.g. integration of GIS and census data into the regional traffic model and development of performance measurement tools and strategies). (Projects 2.1 and 2.4)
- ✓ Identify and document transportation facilities, projects, and services required to meet the regional and interregional mobility and access needs. (Projects 2.1, 2.2, and 2.3)
- ✓ Define solutions and implementation issues in terms of the multimodal transportation system, land use and economic impacts, financial constraints, air quality and environmental concerns (including wetlands, endangered species, and cultural resources). (Projects 2.1 and 2.2)
- ✓ Assess the operational and physical continuity of transportation system components within and between metropolitan and rural areas, and interconnections to and through regions. (Projects 2.1, 2.3, and 2.4)

- ✓ Conduct transit needs public hearings and prepare transit development plans and transit marketing plans as appropriate. (Project 2.3)
- ✓ Investigate methods to reduce vehicle travel and methods to expand and enhance travel services. (Projects 2.3 and 2.4)
- ✓ Incorporate transit and intermodal facilities, bicycle transportation facilities, and pedestrian walkways in projects where appropriate. (Projects 2.1, 2.2 and 2.3)
- ✓ Participate with regional, local and state agencies, the general public, and the private sector in planning efforts to identify and implement policies, strategies, programs and actions that maximize and implement the regional transportation infrastructure. (Projects 2.1, 2.2, 2.3, and 2.4)
- ✓ Conduct collaborative public participation efforts to further extend transportation planning to communities previously not engaged in discussion. (Project 2.1 and 2.3)
- ✓ Create, strengthen, and use partnerships to facilitate and conduct regional planning activities between Caltrans, RTPAs, Metropolitan Planning Organizations (MPOs), transit districts, cities, counties, the private sector, and other stakeholders. (All WE 2 Projects)
- ✓ Use partners to identify and implement policies, strategies, programs and actions that enhance the movement of people, goods, services, and information. (Projects 2.1 and 2.3)
- ✓ Ensure that projects developed at the regional level are compatible with statewide and interregional transportation needs. (Projects 2.2 and 2.4)
- ✓ Conduct planning and project activities (including corridor studies, and other transportation planning studies) to identify, develop, and monitor current and future STIP projects. (Projects 2.1 and 2.2)
- ✓ Implement ways to meet transportation needs by using existing transportation facilities more efficiently. Encourage owners and operators of transportation facilities/systems to work together to develop operational objectives and plans maximizing utilization of existing facilities. (Projects 2.1, 2.3 and 2.4)
- ✓ Document environmental and cultural resources and develop and improve coordination between agencies using Geographic Information Systems (GIS), Intelligent Transportation Management Systems (ITMS), and other computer-based tools. (Projects 2.1 and 2.4)

Work Element 2, Regional Transportation Planning, incorporates the ten Federal Planning Factors into the NCTC planning program (see page I-6).

Monitoring safety and operational data of transportation facilities and services in Projects 2.1 and 2.3 will aid NCTC efforts to incorporate “safety” and “security” within the planning process. Through expanded Technical Advisory Committee meetings, transportation planning will be coordinated with emergency preparedness plans in the region. Systems management and operational data will be used to identify opportunities to increase transit ridership and develop operational improvements for regional transportation facilities. Management and operations data will also be key components in guiding capital investment plans for regional transportation system facilities and services. Planning activities will include coordination with nonemergency human service transportation providers. NCTC will also provide information to regional transit operators to ensure appropriate safety, security, and operational training opportunities are provided.

Project 2.1 - Transportation Planning

Purpose: Regional planning and implementation, monitoring the regional transportation system, and implementation of the Regional Transportation Plan through the activities listed below.

- Update travel demand models and circulation plans.
- Coordinate the RTP with Caltrans planning documents.
- Coordinate the RTP with county, town, and city general plans.
- Complete planning studies on projects in the RTP to be programmed in the RTIP.
- Plan and coordinate local, regional, state, and federal funding for RTP projects (e.g., RTMF, STIP, RSTP, SHOPP, CMAQ, and federal grants).

Previous Work:

- NCTC staff participated in meetings and workshops related to current State funding opportunities and provided input on State guidelines development and eligibility requirements for future grant funding cycles.
- NCTC staff participated in an I-80 Focus Group meeting with Nevada County OES and Sheriff's Office Staff, Truckee CHP, Truckee Fire, Caltrans and various affected local agencies to discuss short-term coordination, evacuation and detouring issues, and long-term Planning Opportunities to be prepared for future disasters.
- NCTC staff continued collecting and analyzing freight data on SR 49 in relation to I-80 emergency detours and continued coordinating with Caltrans District 3 to discuss potential wildfire evacuation climate adaptation projects that could help to reduce evacuation times in the SR 49 corridor.
- NCTC Staff researched and participated in meetings regarding evacuation initiatives and current climate related impacts.
- NCTC staff continued to meet with Nevada County OES staff and consultant firm Ladriss to discuss evacuation routes and emergency evacuation scenarios and simulations.
- NCTC and the Nevada County Office of Emergency Services continued to discuss coordination and partnership opportunities in relation to a mutual desire to conduct coordinated wildfire/evacuation research with the University of California Los Angeles Environmental Engineering Department utilizing western Nevada County as a test bed region for the testing and further development of the latest technical modeling platforms.
- NCTC staff also participated in meetings with Nevada County OES regarding other current evacuation planning initiatives underway.
- NCTC continued conversations with the University of California Los Angeles Environmental Engineering Department on wildfire research and prepared a letter of collaboration in support of a grant submittal to the National Science Foundation to establish a Research Center *CyPRES (Community Pyro-Resilience, Equitability, and Sustainability)*.
- NCTC coordinated with Caltrans District 3 Safety Division to analyze and review accident data in the SR 20 corridor between Grass Valley and the Yuba County line.
- NCTC monitored the development and status of all Caltrans projects located within the boundaries of the SR 49 Corridor System Management Plan (CSMP) and monitored accident data for regional roadways within Nevada County.
- NCTC enhanced its public engagement activities and outreach efforts by expanding its social media footprint and identified disadvantaged and vulnerable community groups, in an effort to better serve those communities.
- NCTC staff prepared and issued a Congestion Mitigation Air Quality Improvement Program (CMAQ) and Carbon Reduction Program (CRP) call for projects and reviewed the project applications and prepared preliminary rankings. Staff also coordinated with the Technical Advisory Committee to discuss draft funding recommendations.

Project 2.1 - Transportation Planning (continued)

- NCTC staff met with partnering agencies to discuss options of funding all submitted applications for CMAQ and CRP projects.
- NCTC staff began preparation of the submittal to the Interagency Consultation Working Group for their review and recommended reaffirmation of the previous determination of the State Route 49 Corridor Improvement Project as exempt.
- NCTC staff coordinated with Caltrans to explore opportunities to implement the SR 49 Corridor System Management Plan and monitor existing traffic conditions and safety data. NCTC staff continue to monitor the development and status of all Caltrans projects located within the boundaries of the SR 49 Corridor System Management Plan (CSMP) and work with the design team to minimize right-of-way impacts.
- NCTC staff coordinated with Caltrans and CTC on the \$35 million funding awarded for the SR 49 Grass Valley Evacuation Route Project to widen Highway 49 between Ponderosa Pines Way and Wolf Road.

Additional/Continuing Work:

- Monitor implementation of the Comprehensive Multimodal Corridor Plan (CMCP) recommendations. (NCTC) (RPA, LTF, & PPM)
- Solicit input from citizens and transportation stakeholders, including the Native American community, disadvantaged communities, and agencies regarding transportation issues. (NCTC) (RPA & LTF)
- Update capital improvement needs lists. (NCTC) (RPA, LTF & PPM)
- Coordinate with the Town of Truckee's update of the Trails Master Plan (NCTC)(RPA)
- Work with Northern Sierra Air Quality Management District (NSAQMD) to determine air quality impacts of regional transportation plans and improvement programs. (NCTC) (RPA & LTF)
- NCTC staff will continue to coordinate with Caltrans, the Northern Sierra Air Quality Management District and other agencies regarding planning related to the Federal 8-hour ozone standards and air quality conformity. (NCTC) (RPA & LTF)
- Develop information to evaluate goods movement impacts on the region's transportation system and consider air quality issues related to goods movement. (NCTC) (RPA, LTF, & PPM).
- Update Highway Performance Monitoring System (HPMS) data. (NCTC) (RPA, LTF, & PPM)
- Incorporate local agency transportation CIPs and master plans into the RTP and RTIP as appropriate. (NCTC) (RPA, LTF, & PPM)
- Assist member agencies with review and update of transportation capital improvement programs (CIPs) and master plans. (NCTC) (RPA, LTF, & PPM)
- Update traffic model land use files. (NCTC) (RPA, LTF, & PPM)
- Participate in updates of Nevada County, Truckee, Grass Valley, Nevada City General Plans. (NCTC) (RPA, LTF, & PPM)
- Conduct and update planning studies as needed for regional projects identified by NCTC, TAC, and member agencies. (NCTC) (RPA, LTF, & PPM)
- Analyze alternative growth scenarios and report on related infrastructure needs and costs. (NCTC) (RPA, LTF, & PPM)
- Identify Right-of-Way needed for future transportation projects. (NCTC) (RPA, LTF, & PPM)
- Conduct technical studies necessary to support policies and projects included in the RTP. (NCTC) (RPA, LTF, & PPM)

Project 2.1 - Transportation Planning (continued)

- Work with Nevada County's GIS staff to ensure the following airport information is included in the GIS database: airport locations, airport boundaries, noise contours, airport influence area, and ground access routes to airports. (NCTC) (RPA & LTF)
- Coordinate with public safety agencies. (NCTC) (RPA & LTF)
- Local participation in regional planning and updating traffic counts (NCTC, Grass Valley, Nevada City, Town of Truckee, Nevada County) (RPA)
- Monitor existing traffic conditions and safety data. (NCTC) (RPA & LTF)
- Coordinate with Caltrans to develop and implement performance measures in the regional planning process. (NCTC) (RPA & LTF)
- Coordinate with Northern Sierra Air Quality Management District (NSAQMD) and California Air Resources Board (CARB) to assist in development of the Statewide Implementation Plan (SIP) for western Nevada County. (NCTC) (RPA & LTF)
- Review and compare the California State Transportation Agency Final Climate Action Plan for Transportation Infrastructure (CAPTI) to the RTP policies, regional needs, and projects to determine if the projects align with proposed investment strategies. (NCTC) (RPA & LTF)
- When developing regional transportation projects and updating planning documents, NCTC will consider and incorporate transit services, intermodal facilities, and pedestrian bicycle facilities whenever appropriate. (NCTC) (RPA & LTF)
- Planning activities related to CMAQ program including preparation and releasing of call for projects, review and ranking applications, project selection, and programming. (NCTC) (RPA & LTF)
- Coordinate review of safety and design concerns of state highway projects. (NCTC) (RPA, LTF & PPM)
- Identify and analyze issues relating to integration of regional transportation and community goals and objectives in land use, housing, economic development, social welfare and environmental preservation. (NCTC) (RPA & LTF)
- SB743 VMT Forecasting Tool and Web Hosting. (NCTC/Consultant) (LTF)
- Analyze climate related impacts to the transportation system and identify strategies to address resiliency. (NCTC) (RPA & LTF)

Products:

- Documentation of Air Quality Conformity Process (As Needed)
- Traffic count updates (Annual)
- Reports on new issues and projects to be included in the RTP (Annual)
- Progress reports on project planning activities (Bimonthly)

Budget 2.1

Revenues:		
	LTF	\$13,078.99
	RPA Formula	\$146,299.25
	STIP Planning PPM	\$3,178.69
Total		\$162,556.93
Expenditures:		
	Staff	\$69,477.94
	Indirect	\$13,078.99
	Transportation Eng	\$40,000.00
	Local Agency	\$30,000.00
	Traffic Counts	\$10,000.00
Total		\$162,556.93

Totals may not equal addition of amounts in columns due to rounding

Indirect costs are paid with local funds (see Budget Table 5).

Project 2.2 – Transportation Improvement Programs

Purpose: To monitor implementation of the Regional Transportation Improvement Program (RTIP) and Interregional Transportation Improvement Program (ITIP) funding and provide policy analysis and recommendations regarding the RTIP and the State Transportation Improvement Program (STIP) through the activities listed below.

Previous Work:

- NCTC staff participated in the State Transportation Improvement Program (STIP) Guidelines workshop.
- NCTC continued interagency coordination to identify and consider new RTIP projects and the need for future Project Initiation Documents.
- NCTC staff continued to monitor STIP projects and implementation of NCTC’s Regional Transportation Improvement Program (RTIP).
- NCTC staff coordinated with Caltrans District 3 and Caltrans Headquarters to propose and secure Interregional Improvement Program funding in the 2024 STIP to provide the necessary funding to construct the improved access to the Nevada County Transit Operations Center and zero emission bus charging infrastructure.
- Begin preparation of draft 2024 RTIP - October 2023
- NCTC staff coordinated with Caltrans District 3 and Caltrans Headquarters in the preparation and submittal of the programming request for Regional Improvement Program and Interregional Improvement Program funding in the 2024 STIP for the construction of the State Route 49 Corridor Improvement Project.
- Public hearing and adoption of 2024 RTIP - November 2023
- Submittal of 2024 RTIP to the CTC - December 2023
- NCTC staff continued coordination as a member of the project development team and attended regular meetings with Caltrans Project Management regarding the SR 49 Corridor Improvement Project (CIP) and Caltrans SHOPP project 4E170 and 3H510.
- NCTC staff continued coordination with Caltrans to identify incremental projects to accelerate safety improvements in the SR 49 corridor between Grass Valley and the Combie Road/Wolf Road intersection.

Additional/Continuing Work:

- NCTC staff will continue to work closely with Caltrans District 3 and Headquarters staff on Climate Adaptation projects that can be incorporated into the transportation infrastructure network within Nevada County. (NCTC) (RPA & LTF)
- Monitor STIP implementation. (NCTC) (RPA & LTF)
- Encourage interagency coordination necessary to identify and develop new RTIP projects. (NCTC) (RPA & LTF)
- Communicate and coordinate with Caltrans to identify and implement incremental projects to accelerate the safety improvements to the SR 49 corridor between Grass Valley and the Combie/Wolf Road intersection. (NCTC) (RPA & LTF)
- Coordinate with Caltrans regarding Interregional Transportation Improvement Program (ITIP) participation in STIP funded projects in Nevada County. (NCTC) (RPA & LTF)
- Review and comment on ITIP funding criteria proposed in the Caltrans Strategic Investment Strategy (CSIS). (NCTC) (RPA & LTF)
- Begin preparation of draft 2026 RTIP - October 2025 (NCTC) (RPA & LTF)
- Public hearing and adoption of 2026 RTIP - November 2025 (NCTC) (RPA & LTF)
- Submittal of 2026 RTIP to the CTC - December 2025 (NCTC) (RPA & LTF)

Project 2.2 – Transportation Improvement Programs (continued)

- Review consistency of future RTIP projects with the Climate Action Plan for Transportation Infrastructure and California Transportation Plan 2050 (NCTC) (RPA & LTF)
- NCTC will continue to participate with Caltrans District 3 in the preparation of the Design and Right-of-Way phases for the proposed improvements on SR 49 from La Barr Meadows Road to McKnight Way. (NCTC) (RPA & LTF)
- SR 49 Grass Valley Evacuation Route Project: NCTC will continue to participate in the preparation of the Project Approval/Environmental Documentation and Plans, Specifications, and Estimates and Right-of-Way for a future construction project.

Products:

- Status reports on Nevada County’s STIP projects (Bimonthly)
- Reports regarding implementation of the Nevada County RTIP (Ongoing)
- Reports on implementation of Caltrans SR 49 Comp Multimodal Corridor Plan (Annual)

Budget 2.2

Revenues:		
	LTF	\$15,885.40
	RPA Formula	\$84,386.11
Total		\$100,271.51
Expenditures:	Staff	\$84,386.11
	Indirect	\$15,885.40
Total		\$100,271.51

Totals may not equal addition of amounts in columns due to rounding

Project 2.3 – Transit and Paratransit Programs

Purpose: Work with city, county, and town staff to improve efficiency, productivity, and cost effectiveness of existing transit and paratransit systems through the activities listed below.

Previous Work:

- NCTC staff continued to work with the Nevada County Transit Services to examine capital funding opportunities for planned improvements to the Nevada County Transit Operations Center and plans for Zero Emission Bus transition.
- NCTC staff also coordinated with Nevada County Transit Services to develop a proposed scope of work for a Comprehensive Operational Analysis to analyze the current fixed route/paratransit delivery model and examine alternative delivery options, such as micro-transit, micro-mobility, and dial-a-ride to determine the most cost-effective way to provide enhanced mobility.
- NCTC staff continued to work with the Town of Truckee to identify funding opportunities for long-term implementation of the Town’s microtransit pilot and construction of the new Transit Center at the Truckee Railyard.
- NCTC staff coordinated with the Placer County Transportation Planning Agency, Tahoe Regional Transportation Planning Agency, Washoe County Transportation Commission, Nevada County, Placer County, and Capitol Corridor Joint Powers Agency to explore opportunities to coordinate to help advance the mutual goal of expanding passenger rail service to Truckee/Reno and develop last mile transit connections.
- NCTC staff monitored transit and paratransit statistics and compliance with the requirements of the TDA and participated in the ATCI/MAPCO group and SSTAC.
- NCTC staff also assisted transit operators with administrative challenges related to Cares Act and CRRSAA funding.
- NCTC staff coordinated and participated in the monthly Truckee Convene, Champion & Catalyze (CCC) meetings established by the Board of Supervisors, to discuss the Truckee area transportation/transit issues and improvement plans.

Additional/Continuing Work Activities:

- Assist in implementation of Transit Development Plans and Nevada County Coordinated Public Transit-Human Services Transportation Plan. (NCTC) (RPA & LTF)
- Monitor ridership, expenditures, and revenue data for each system. (NCTC) (RPA & LTF)
- Hold coordination meetings with transit and paratransit providers. (NCTC) (RPA & LTF)
- Check operational performance indicators for each system. (NCTC) (RPA & LTF)
- Develop and present information regarding alternative forms of transportation that are practical for Nevada County. (NCTC) (RPA & LTF)
- Coordinate with human service transportation providers. (NCTC) (RPA & LTF)
- Distribute press releases and other educational information regarding alternative forms of transportation. (NCTC) (RPA & LTF)
- Participate on the Accessible Transportation Coalition Initiative-Mobility Action Partners Coalition. (NCTC) (RPA & LTF)
- Assist transit operators with feasibility analysis of transit electrification mandate. (NCTC) (RPA & LTF)
- Coordinate with Town on public polling effort in consideration of 2024 Transportation -Transit Ballot Measure (NCTC) (RPA & LTF)

Project 2.3 – Transit and Paratransit Programs (continued)

- Monitor ridership, expenditures, and revenue for each system. (NCTC) (RPA & LTF)
- Hold coordination meetings with transit and paratransit providers. (NCTC) (RPA & LTF)
- Check operational performance indicators for each system. (NCTC) (RPA & LTF)
- Develop and present information regarding alternative forms of transportation that are sustainable and practical for Nevada County. (NCTC) (RPA & LTF)
- Coordinate with human service transportation providers. (NCTC) (RPA & LTF)
- Distribute press releases and other educational information regarding alternative forms of transportation. (NCTC) (RPA & LTF)
- Participate on the Accessible Transportation Coalition Initiative-Mobility Action Partners Coalition. (NCTC) (RPA & LTF)
- Administer Federal Transit Administration 5311 revenues. (LTF & RPA)
- Planning and coordination with transit operators in the development of grant applications for the Transit Intercity Rail Capital Program (TIRCIP) competitive program. (NCTC) (RPA & LTF)
- Planning and coordination with transit operators in the development and administration of Senate Bill 125 TIRCIP and Zero Emission Transit Capital Program. (NCTC) (RPA & LTF)

Products:

- Reports to the Commission regarding staff participation in the transit and paratransit planning processes (Bimonthly)
- Quarterly ridership, expenditure, and revenue reports for each system
- Quarterly operational performance reports for each system
- Bi-monthly minutes of the Accessible Transportation Coalition Initiative-Mobility Action Partners Coalition.

Budget 2.3

Revenues:		
	LTF Carryover	\$18,132.61
	RPA Formula	\$56,395.68
Total		\$74,528.29
Expenditures:		
	Staff	\$56,395.68
	Indirect	\$18,132.61
Total		\$74,528.29

Totals may not equal addition of amounts in columns due to rounding
 Indirect costs are paid with local funds (see Budget Table 5).

Project 2.3.4 – Reenvisioning Transit in Western Nevada County/Comprehensive Operational Analysis (COA)

Purpose: The Reenvisioning Transit in Western Nevada County / Comprehensive Operational Analysis (COA) will comprehensively review the existing transit services offered and identify areas and opportunities to transition to alternative operating models to provide greater system efficiency and ridership benefits. Similar to many other transit systems across the nation, Nevada County Connects (fixed route transit service) has not rebounded from the impacts of the COVID 19 Pandemic and it is imperative to identify the most cost effective and efficient services with the limited operational funding streams available to meet the needs of the residents and visitors of Western Nevada County. NCTC will manage this study in coordination with Nevada County Connects, the Cities of Nevada City and Grass Valley, key stakeholders, and residents to capture the vision that most successfully explores the relationships between effective transit and land-use, population growth and employment patterns, as well as social equity and areas of high transit need. The COA will generate recommendations based on extensive data analysis, public outreach, and industry best practices for deploying various public transportation modes and integrating with the Statewide Transit and Rail Plans, and the COA shall consider an entire spectrum of service options ranging from minor modifications to a full “reset” of the system. These options may include traditional fixed route service, dial-a-ride service, micro-transit service, micro-mobility options, and/or a combination to address the challenges of meeting the transit needs outside the fixed route/ADA service areas and outlying communities.

Previous Work:

- Western Nevada County Transit Development Plan, June 2021.

Additional/Continuing Work Activities:

Project Administration:

- Project support and administration of grant. (NCTC/Consultant) (FTA/RPA)
- Project meetings and coordination. (NCTC/Consultant) (FTA/RPA)
- Project Advisory Committee (PAC) activities. (NCTC/Consultant) FTA/RPA)
- Public outreach activities. (NCTC/Consultant) (FTA/RPA)

Consultant Procurement:

- NCTC staff prepare and distribute a Request for Proposals to qualified consultants to prepare the COA. (NCTC)
- NCTC review proposals, select consultant, and execute contract to prepare the COA. (NCTC)

Existing Conditions:

- Provide project initiation and baseline information/data collection. (NCTC/Consultant) May 2025

Analysis:

- Provide analysis for fixed assets; vehicle fleet; operations; community services; rural routes; dial-a-ride; volunteer driving program; service models; and mobility hubs. (Consultant) January 2026.

Public Outreach:

- Outreach will be conducted through on-board/on-line surveys, meetings, workshops, focus groups, interviews, and outreach directly to key social service agencies, church. This outreach plan will be adjusted as conditions permit. (NCTC/Consultant) July 2026

Advisory Committee meetings:

- The development of an advisory committee to be beneficial to the development of the COA and enhance Nevada County Transit’s long-term relationship with the many communities it serves. (NCTC/Consultant)

Draft and Final COA:

- The Draft and Final plans will aggregate the data and recommendations from the COA development process including any public comments; the operational analysis; suggested service alternatives; cost analysis of service recommendations; and the financing and implementation plan. (NCTC/Consultant) (January 2027)

Board Review/Approval:

- The COA will be presented to the Board of Supervisors and NCTC Commission for both Boards to adopt the COA and support the timely implementation of the COA recommendations. (NCTC/Consultant) (May 2027)

Products:

- Existing Conditions Working paper (May 25)
- Financial Plan (Jan 26)
- Draft Comprehensive Operational Analysis COA (Nov 26)
- Final Comprehensive Operational Analysis COA (Jan 27)

Budget 2.3.4

Revenues:		
	LTF	\$8,608.35
	RPA Formula	\$31,319.65
	Strategic Partnership Grant (FTA 5304)	\$170,000.00
Total		\$209,928.00
Expenditures:		
	Staff	\$39,928.00
	Consultant	\$170,000.00
Total		\$209,928.00

Project 2.4 - Coordination of Regional Planning

Purpose: Enhance NCTC's regional planning efforts through the following activities:

- Coordinate local land use planning with regional transportation planning.
- Analyze regional transportation impacts of proposed development projects, including VMT.
- Improve Transportation Systems Management (TSM) and Transportation Demand Management (TDM) efforts in the region.
- Provide for Commission participation in studies done by other agencies.
- Promote cooperation between regional planning agencies.
- Promote regional transportation services (e.g. connections to Capitol Corridor rail service).
- Participate and coordinate in regional evacuation planning efforts.

Previous Work:

- Review of local development projects and environmental documents.
- Traffic model analyses of development projects, and modifications to regional and local transportation facilities proposed by public agencies.
- Study to extend Capitol Corridor train service to Truckee/Tahoe area.
- Participate in the SR 49 Corridor Study with Placer County Transportation Planning Agency (PCTPA) and Caltrans.
- Participate in the Tahoe Gateway Intelligent Transportation Study.
- Coordinate with Placer County, PCTPA, Nevada County, and Caltrans as a Technical Advisory Committee for the SR 49 Corridor Study.
- Coordinate with Caltrans, SACOG, El Dorado Transportation Commission, Sierra County Transportation Commission, and Placer County Transportation Planning Agency to update and maintain the Tahoe Gateway ITS Regional Architecture.
- Participate with Caltrans and RTPAs to pursue rail projects that will improve goods movement and enhance passenger rail service.
- Work with the Northern Sierra Air Quality Management District (NSAQMD) to develop and implement transportation control measures consistent with the region's air quality non-attainment plan and Regional Transportation Plan.
- In conjunction with PCTPA and Caltrans, actively pursue, develop, and implement funding for SR 49 corridor improvements.
- Participate as a member of the Tahoe Gateway Architecture Maintenance Team.
- Coordinate with member agencies to reestablish and enhance Transportation Demand Management (TDM) programs in Nevada County.
- Assist with modeling and traffic analyses as requested by jurisdictions and approved by NCTC.
- Analyze transportation impacts of development proposals.
- Analyze proposed modifications to city and county land use plans.
- Participate in the North State Super Region “North State Transportation for Economic Development Study.”
- Review updates of the Circulation and Land Use Elements of General Plans for Nevada County, cities of Grass Valley and Nevada City, and the Town of Truckee to ensure consistency with the adopted Airport Land Use Compatibility Plans (ALUCPs) for the Nevada County and Truckee Tahoe airports.
- Participate in inter-regional planning projects (e.g. North State Super Region (NSSR), I-80 Corridor Management Plan, and Trans-Sierra Transportation Coalition).
- Participated with PCTPA and Caltrans to develop update of Sacramento to Reno Passenger Rail Service Planning Study – Truckee/Tahoe/Reno

Project 2.4 - Coordination of Regional Planning (continued)Additional/Continuing Work:

- Participate in Regional Transportation Planning Agency group meetings and California Rural Counties Task Force meetings. (NCTC) (LTF)
- Participate in Federal and State Clean Air Act transportation related air quality planning activities. (NCTC) (LTF)
- Participate in the Truckee/North Tahoe Transportation Management Association (TNT/TMA) and Resort Triangle Transportation Planning Coalition (RTTPC) meetings. (NCTC) (LTF)
- Review and comment on Caltrans Systems Plans and related documents. (NCTC) (LTF)
- Coordination with the Nevada County Economic Resource Council. (NCTC) (LTF)
- Monitor planning efforts in Grass Valley, Nevada City, Nevada County, Truckee. (LTF)
- Present information to local civic groups regarding regional transportation planning. (NCTC) (LTF)
- Participate in local ad hoc committees. (NCTC) (LTF)
- Maintain formal consultation with Native American Tribal Governments. (NCTC) (LTF)
- Maintain formal consultation with the U.S Forest Service & Bureau of Land Management. (NCTC) (LTF)
- Monitor implementation of the Nevada County Active Transportation Plan. (NCTC) (LTF)
- Participate in the “Zero Traffic Fatalities Task Force”. (NCTC) (LTF)
- Participate in Critical Freight Corridors Working Group. (NCTC) (LTF)
- Participate in SR 49 Stakeholders Committee. (NCTC) (LTF)
- Distribute press releases. (NCTC) (LTF)
- California Local Streets and Roads Needs Assessment Oversight Committee Participation. (NCTC) (LTF)
- Coordinate with partner agencies to implement the federal performance-based approach in the scope of the transportation planning process. (NCTC) (LTF)
- Participate in the California Federal Programming Group (CFPG). (NCTC) (LTF)
- Participate in the Transportation Cooperative Committee. (NCTC) (LTF)
- Participate on the Truckee Transit Center Study Project Advisory Committee. (NCTC) (LTF)
- Coordinate with local jurisdictions in the identification of pedestrian and bicycle projects that meet the requirements for Active Transportation Program grant funding and plan to resubmit grant applications. (NCTC) (LTF)
- Coordinate with partners to identify policies, strategies, programs, and actions that enhance the movement of people, goods, services and information on the regional, interregional, and state highway systems. (NCTC) (LTF)
- Participate in Interregional Transportation Strategic Plan (ITSP) Workshops. (NCTC) (LTF)
- Participate in Federal Rescission working group. (NCTC) (LTF)
- Participate with North Tahoe SSTAC and Placer County SSTAC in coordination of unmet needs hearings. (NCTC) (LTF)
- Participate in the preparation of the SR 49 Comprehensive Multimodal Corridor Plan (CMCP). (NCTC) (LTF)
- Participate on the Project Advisory Committee for the SR 49 Safety Assessment. (NCTC) (LTF)
- Participate with CalSTA in development and implementation of the Climate Action Plan for Transportation Infrastructure (CAPTI). (NCTC) (LTF)
- Coordinate with California State Association of Counties and Rural County Representatives of California regarding transportation policy. (NCTC) (LTF)
- Participate in quarterly meetings of the Trans-Sierra Transportation Coalition.
- Coordinate with Western Region Institute of Transportation Engineers on development of Induced Demand White Paper. (NCTC) (LTF)
- Participate and coordinate evacuation planning with the Nevada County Office of Emergency Services, Nevada County Sheriff’s Department, CAL FIRE NEU, California Highway Patrol, and other local emergency responders. (NCTC) (LTF)

Project 2.4 - Coordination of Regional Planning (continued)

- Outreach regarding Rural Induced Demand

Products:

- Reports regarding participation in regional coordination activities (e.g. Zero Traffic Fatalities Task Force, Critical Freight Corridors Working Group, ITSP Workshops, Sacramento to Reno Passenger Rail Service Planning Study – Truckee/Tahoe/Reno, and Critical Freight Corridors Working Group). (Bimonthly)
- Reports on coordination with the Nevada County Economic Resource Council. (Bimonthly)
- Reports on SR 49 Corridor improvements. (Bimonthly)
- Reports to the Commission regarding North State Super Region meetings and activities. (Bimonthly)
- Reports regarding RTPA and RCTF meetings. (Bimonthly)
- Reports regarding TNT/TMA and RTTPC activities. (Bimonthly)

Budget 2.4

Revenues:		
	LTF	\$36,412.50
	RPA Formula	\$117,556.40
	RSTP	\$30,000.00
Total		\$183,968.90
Expenditures:		
	Staff	\$117,556.40
	Indirect	\$35,612.50
	Consulting	\$30,000.00
	Statewide Local Streets and Roads	\$800.00
Total		\$183,968.90

Totals may not equal addition of amounts in columns due to rounding
 Indirect costs are paid with local funds (see Budget Table 5).

WORK ELEMENT 2 - REGIONAL TRANSPORTATION PLANNING (continued)**Project 2.4.2 – Airport Land Use Commission Planning and Reviews**

Purpose: Enhance NCTC's regional planning efforts through the following activities:

- Coordinate local land use planning with airport land use compatibility plans.
- Promote cooperation between land use planning agencies and airport land use commissions.
- Conduct reviews of projects near Nevada County and Truckee Tahoe Airport for consistency with adopted ALUCPs.
- Provide staff support to Nevada County and Truckee Tahoe Airport Land Use Commissions.
- Participate in statewide ALUC meetings.

Previous Work:

- Review airport land use compatibility issues.
- Conduct reviews of projects near Nevada County and Truckee Tahoe Airport for consistency with adopted ALUCPs. (ALUC Fees, LTF)

Additional/Continuing Work:

- Review airport land use compatibility issues.
- Conduct reviews of projects near Nevada County and Truckee Tahoe Airport for consistency with adopted ALUCPs. (ALUC Fees, LTF)

Products:

- Reports on airport land use compatibility issues. (Ongoing)

Budget 2.4.2

Revenues:		
	LTF	\$19,226.92
	ALUC Fees	\$15,000.00
Total		\$34,226.92
Expenditures:		
	Staff	\$19,226.92
	ALUC Reviews	\$15,000.00
Total		\$34,226.92

Totals may not equal addition of amounts in columns due to rounding

WORK ELEMENT 2 - REGIONAL TRANSPORTATION PLANNING (continued)**Project 2.4.3 – Zion St. Mobility/School Access Study**

Purpose: The Zion St. corridor in Nevada City is heavily used by vehicular, pedestrian, and bicycle traffic due to three schools in the vicinity. This project will analyze cost-effective improvements in the Zion Street Corridor related to improving safety and pedestrian and bicycle connectivity to school facilities. The need for improvements in this corridor are identified in the 2019 Nevada County Active Transportation Plan. This project is being funded with a FY 2023/24 RPA Grant.

Previous Work:

No previous work.

Project Work Activities:

- Prepare and distribute a Request for Proposal to qualified consultants (RPA) (NCTC)
- Review proposals, select consultant, and execute a contract (RPA) (NCTC/Consultant)
- Finalize the work program and refine the scope of work (RPA) (NCTC/Consultant)
- Project meetings and coordination (RPA) (NCTC/Consultant)
- Public Outreach (RPA) (NCTC/Consultant)
- Project Advisory Committee activities (RPA) (NCTC)
- Project support and administration of grant (RPA) (NCTC)
- Prepare quarterly reports and invoices (RPA) (NCTC)
- Project initiation and data collection (RPA) (NCTC/Consultant)
- Develop potential improvement alternatives (RPA)
- Prepare Draft Report (RPA)
- Public workshops (RPA)
- Prepare Final Report (RPA)

Products:

- Consultant Procurement Process (Sep 24)
- Consultant Contract (Jan 25)
- Administrative Draft Report (Sep 25)
- Draft Report (Nov 25)
- Final Report (Mar 26)

Budget 2.4.3

Revenues:		
	RPA Grant Carryover	\$199,998.20
	RPA Formula	\$30,542.92
Total		\$230,541.12
Expenditures:		
	Staff	\$30,542.92
	Consultant	\$199,998.20
Total		\$230,541.12

Project 2.4.5 – Rural Counties Task Force Chair Activities

Purpose: To coordinate the participation of the twenty-six Rural Transportation Planning Agencies (RTPA) in the statewide issues pertinent to transportation planning, programming, and funding. This work element is in the first year of a two-year NCTC planning effort. This work element provides the resources necessary for the NCTC Deputy Director to fulfill the responsibilities of Chair of the Rural Counties Task Force (RCTF). The RCTF is an advisory committee to the California Transportation Commission (CTC). The RCTF provides a forum for the RTPAs in California to coordinate information, discuss issues, and present their unique perspective and input into the statewide decision-making process. In addition, the RCTF provides a venue to pool financial and knowledge-based resources. The Chair position provides access to policy makers from state government putting the rural counties, including NCTC, in a unique position to protect and enhance our projects and funding.

Previous and Continuing Work:

- Participate in RTPA group meetings and California RCTF meetings.

Additional Work Activities:

- Develop, organize, and distribute the RCTF meeting agendas. (NCTC) (Bi-Monthly)
- Represent the RCTF at ad hoc and standing Caltrans and CTC policy and technical advisory committees. (NCTC) (Ongoing)
- Represent the RCTF at government forums and workshops. (NCTC) (As needed)
- Represent the RCTF at CTC meetings and workshops. (NCTC) (Monthly)
- Coordinate efforts and provide technical assistance on transportation issues with the Regional Council of Rural Counties, California State Association of Counties, and League of California Cities. (NCTC) (Ongoing)
- Communicate with RCTF members on issues of shared interest, such as policy and procedural changes or funding opportunities. (NCTC) (Ongoing)

Products:

- RCTF agendas. (Bi-Monthly or as needed)
- RCTF Bi-Monthly reports and annual report to the CTC. (Ongoing)
- Correspondence and communications to Caltrans, California Transportation Commission, Regional Council of Rural Counties, California State Association of Counties, and League of California Cities. (As needed)
- Billings to RCTF member agencies for voluntary dues. (January 25)

Budget 2.4.5

Revenues:		
	RCTF Dues	\$36,853.81
Total		\$36,853.81
Expenditures:		
	Staff	\$21,853.81
	RCTF Travel	\$15,000.00
Total		\$36,853.81

Project 2.4.5a –CARL Administration

Purpose: The California Academy for Regional Leaders (CARL) supports participants in their efforts to strengthen their organizations and increase their personal effectiveness by helping them develop leadership skills, expand their knowledge of the systems that impact their agencies, and build state-wide professional networks.

Previous Work: No Previous Work, this is a new project.

Work Activities:

Utilizing RPA Grant funds, the Rural Counties Task Force Chairman will identify candidates for the CARL program.

Products:

Billings to CALCOG to enable RCTF members to participate in the CARL program on scholarship. (Annually)

Budget 2.4.5a

Revenues:		
	FY 24/25 RPA Grant	\$25,000.00
Total		\$25,000.00
Expenditures:		
	CARL Scholarships	\$25,000.00
Total		\$25,000.00

WORK ELEMENT 2 – REGIONAL TRANSPORTATION PLANNING (continued)

Project 2.4.5b – Rural Counties Task Force Administrative Guidebook and Training

Purpose: Prepare an update to the RCTF Administrative Guidebook first developed in 2015 and updated in 2022.

Previous Work: In 2015 the RCTF contracted preparation of an Administrative Guidebook for rural California counties. The Guidebook included sections on: Administration, Accounting systems, Procurement, Employee Handbooks, and Personnel Policies and Procedures.

Work Activities: Contract for preparation of an update to the RCTF Administrative Guidebook. The contract will include provision of training by the consultant on use of the guidebook to RCTF members that request that assistance.

Products:

- Draft Guidebook (Feb 2026)
- Final Guidebook (May 2026)

Budget 2.4.5b

Revenues:		
	RPA Grant FY25/26	\$13,240.00
Total		\$13,240.00
Expenditures:		
	Consulting	\$13,240.00
Total		\$13,240.00

Totals may not equal addition of amounts in columns due to rounding

ACTIVITY	DESCRIPTION	PRODUCTS
System Planning	Completion of system planning products used by Caltrans and its transportation partners	Caltrans District 3 System Planning documents consistent with the Caltrans District 3 System Planning Five-Year Work Plan.
Advance Planning	Completion of pre-programming studies (e.g., Project Initiation Documents) so as to be ready to program resources for capital projects	Project Initiation Documents (PID), as indicated in the Two-Year PID Work Plan.
Regional Planning	Participate in and assist with various regional planning projects and studies	Participation in the following projects and studies: <ul style="list-style-type: none"> • Rural Counties Task Force Rural Induced Demand Study • SR 49 CSMP Update • Assisting with SR 49 TCEP, SCCP, RAISE, Rural Surface Transportation Program Grant Applications • Oversight of Planning Studies/ Conceptual Projects pertaining to the State Highway System
Local Development Review Program	Review of local development proposals potentially impacting the State Highway System	Assistance to lead agencies to ensure the identification and mitigation of local development impacts to the State Highway System that is consistent with the State’s smart mobility goals.

Active Transportation Plan: Identifies a network of pedestrian and bicycle facilities and projects to support pedestrian and bicycle safety for people of all ages and abilities. Specifically, the Active Transportation Plan aims to:

- Identify barriers and innovative solutions to encourage walking and bicycling as viable travel modes
- Effectively build on recently completed and current active transportation planning efforts
- Develop walking/bicycling networks supportive of existing and future land uses and projects
- Develop a clearly defined implementation strategy with specific, creative, yet practical and financially feasible projects matched to specific funding opportunities

Active Transportation Program (ATP): Created in 2013 by the passage of SB 99 and AB 101, the Active Transportation Program consolidates existing federal and state transportation programs into a single program with a focus to make California a national leader in active transportation. The purpose of the Active Transportation Program is to encourage increased use of active modes of transportation by achieving the following goals:

- Increase the proportion of trips accomplished by biking and walking,
- Increase safety and mobility for non-motorized users,
- Advance the active transportation efforts of regional agencies to achieve Greenhouse Gas (GHG) reduction goals, pursuant to SB 375 (of 2008) and SB 341 (of 2009),
- Enhance public health and ensure that disadvantaged communities fully share in the benefits of the program, and
- Provide a broad spectrum of projects to benefit many types of active transportation users.

Airport Land Use Commission (ALUC): The fundamental purpose of ALUCs is to promote land use compatibility around airports. As expressed in state statutes, this purpose is "... to protect public health, safety, and welfare by ensuring the orderly expansion of airports and the adoption of land use measures that minimize the public's exposure to excessive noise and safety hazards within areas around public airports to the extent that these areas are not already devoted to incompatible uses." The statutes give ALUCs two principal powers by which to accomplish this objective:

1. ALUCs must prepare and adopt an airport land use plan; and
2. ALUCs must review the plans, regulations, and other actions of local agencies and airport operators for consistency with that plan.

Airport Land Use Compatibility Plan (ALUCP): A document referred to by ALUCs and individuals seeking to review standards for land use planning in the vicinity of an airport. The ALUCP defines compatible land uses for noise, safety, airspace protection, and overflight within the Airport Influence Area (AIA).

Allocation: A distribution of funds by formula or agreement. With regard to Transportation Development Act funds, allocation is the discretionary action by the RTPA which designates funds for a specific claimant for a specific purpose.

Apportionment: Distribution of funds by a formula. Apportionment under the Transportation Development Act is the determination by the RTPA of each area's share of anticipated LTF for the ensuing fiscal year.

California Environmental Quality Act (CEQA): A statute that requires state and local agencies to identify the significant environmental impacts of their actions and to avoid or mitigate those impacts, if feasible.

Capital Improvement Program (CIP) or Capital Improvement Plan: A short-range plan, which identifies capital projects and equipment purchases, provides a planning schedule and identifies options, for financing the plan.

Congestion Mitigation and Air Quality (CMAQ): A federal funding program that is available in western Nevada County for transportation projects that demonstrate emission reductions to help attain federal air quality standards. Western Nevada County was classified in 2004 as “non-attainment” for 8-hour ozone standards. Project categories eligible for CMAQ funding include:

- Alternative fuels and vehicles
- Congestion reduction and traffic flow improvements
- Transit improvements
- Bicycle and pedestrian facilities
- Public education and outreach
- Diesel engine retrofits
- Carpooling and vanpooling

Projects are submitted by local jurisdictions for consideration and are ranked based on air quality benefits and project readiness. NCTC then reviews the ranking and chooses projects to be funded.

Corridor System Management Plan (CSMP): Foundational documents supporting a partnership-based, integrated management of all travel modes (cars, trucks, transit, bicycles, and pedestrians) and infrastructure (highways, roads, rail tracks, information systems and bike routes) so that mobility along a corridor is provided in the most efficient and effective manner possible.

Federal Highway Administration (FHWA): An agency within the U.S. Department of Transportation that supports state and local governments in the design, construction, and maintenance of the Nation's highway system (Federal Aid Highway Program) and various federally and tribal owned lands (Federal Lands).

Federal Transit Administration (FTA): A federal agency that provides financial and technical assistance to local public transit systems, including buses, subways, light rail, commuter rail, trolleys and ferries.

Findings of Apportionment: Prior to March 1 of each year, Nevada County Transportation Commission (NCTC), pursuant to the California Code of Regulations Section 6644, transmits “Findings of Apportionment” for all prospective claimants. The apportionments are determined from the Nevada County Auditor-Controller's estimate of Local Transportation Funding (LTF) for the ensuing fiscal year, less those funds allocated for Transportation Development Act (TDA) administration, transportation planning and programming, pedestrian/ bicycle projects, and community transit services. The remaining funds are then apportioned according to the population of each applicant's jurisdiction in relation to the total population of the County.

Fixing America’s Surface Transportation (FAST) Act: A federal law enacted in 2015 to provide long-term funding for surface transportation infrastructure planning and investment. The FAST Act authorizes \$305 billion over fiscal years 2016 through 2020 for highway, highway and motor vehicle safety, public transportation, motor carrier safety, hazardous materials safety, rail, and research, technology, and statistics programs.

FTA Section 5310: This program set forth in United States Code (U.S.C.) Title 49 Section 5310 provides formula funding to states for the purpose of assisting private nonprofit groups in meeting the transportation needs of older adults and people with disabilities when the transportation service provided is unavailable, insufficient, or inappropriate to meeting these needs.

FTA Section 5311: This program set forth in United States Code (U.S.C.) Title 49 Section 5311 provides grants for Rural Areas providing capital, planning, and operating assistance to states to support public transportation in rural areas with populations of less than 50,000 where many residents often rely on public transit to reach their destinations.

Interregional Transportation Improvement Program (ITIP): The ITIP is a five-year program of projects funded through the State Transportation Improvement Program (STIP) that obtains funding primarily through the per-gallon State tax on gasoline. The ITIP is prepared by the California Department of Transportation (Caltrans) and is submitted to the California Transportation Commission (CTC) for approval.

Level of Service (LOS): A qualitative measure used to relate the quality of traffic service. LOS is used to analyze highways by categorizing traffic flow and assigning quality levels of traffic based on performance measures like speed, density, etc. North American highway LOS standards use letters A through F, with A being the best and F being the worst, similar to academic grading.

Local Transportation Fund (LTF): The LTF is derived from a 1/4-cent general sales tax collected statewide. The State Board of Equalization, based on the sales tax collected in each county, returns the sales tax revenues to each county's LTF. The LTF was created in 1971 when legislation was passed to provide funding to counties for transit and non-transit related purposes.

Memorandum of Understanding (MOU): An agreement between two (or more) parties. It expresses a convergence of will between the parties, indicating an intended common line of action. Many government agencies use MOUs to define a relationship between agencies.

Metropolitan Planning Organization (MPO): MPOs are the regional planning entities in urbanized areas, usually an area with a population of 50,000 or more. There are 18 MPOs in California, accounting for approximately 98% of the state's population.

Nevada County Airport Land Use Commission (NCALUC): The Nevada County Transportation Commission was designated by the Nevada County Board of Supervisors and the city selection committee as the ALUC for the Nevada County Airport in May 2010. The NCTC Executive Director serves as the NCALUC Executive Director with support from the NCTC staff.

Nevada County Airport Land Use Compatibility Plan (NCALUCP): The basic function of this plan is to promote compatibility between the airport and surrounding land uses. The plan serves as a tool for use by the NCALUC in fulfilling its duty to review airport and adjacent land use development proposals. Additionally, the plan sets compatibility criteria applicable to local agencies and their preparation or amendment of land use plans and ordinances and to land owners in their design of new developments.

North State Super Region (NSSR): Regional transportation planning agencies from 16 counties in Northern California came together on October 20, 2010, to sign a memorandum of agreement. This agreement created an alliance between the agencies to work together and support each other on issues related to transportation and to have a unified voice representing the North State.

Northern Sierra Air Quality Management District (NSAQMD): The Northern Sierra Air Quality Management District was formed in 1986 by the merging of the Air Pollution Control Districts of Nevada, Plumas and Sierra Counties. The District is required by state law to achieve and maintain the federal and state Ambient Air Quality Standards, which are air quality standards set at levels that will protect public health. The District is composed of three primary entities, each with a specific purpose: District staff, Governing Board of Directors, and Hearing Board.

Overall Work Program (OWP): NCTC annually adopts a budget through the preparation of an Overall Work Program. This work program describes the planning projects and activities or work elements that are to be funded, and the type of funds that will pay for the expenditures.

Planning, Programming, and Monitoring (PPM): PPM is funding allocated by the California Transportation Commission (CTC) through the State Transportation Improvement Program (STIP). Designated uses of PPM include:

- Regional transportation planning – includes development and preparation of the regional transportation plan;
- Project planning – includes the development of project study reports or major investment studies conducted by regional agencies or by local agencies, in cooperation with regional agencies;
- Program development – includes the preparation of regional transportation improvement programs (RTIPs) and studies supporting them; and
- Monitoring the implementation of STIP projects – includes project delivery, timely use of funds, and compliance with state law and CTC guidelines.

Plans, Specifications, and Estimates (PS&E): In this stage of project development, the scope of the selected alternative is refined; design surveys and photogrammetric mapping is obtained; and reports including traffic data, hydrology and hydraulics, geotechnical design, pavement design, and materials and sound wall design reports are completed. Final right-of-way requirements are determined, and procurement is initiated. At the completion of the PS&E stage, a complete set of project plans have been developed that will allow a competent contractor to bid and build the project. These plans include a refined estimate of the construction costs and any required specifications on how the work is to proceed.

Project Approval and Environmental Documentation (PA/ED): The PA/ED step of project development reinforces the philosophy of balancing transportation needs with community goals and values. Outputs of the PA/ED step are the project report and environmental document. The project report is an engineering document that evaluates the various alternatives for selection of a preferred alternative. The environmental document is a disclosure document that assesses the potential impacts of the project on the environment.

Project Initiation Document (PID): a report that documents the purpose, need, scope, cost, and schedule for a transportation project. The PID identifies and describes the viable alternatives to a transportation problem.

Project Study Report (PSR): A report of preliminary engineering efforts, including a detailed alternatives analysis, cost, schedule, and scope information for a transportation project. A PSR also includes estimated schedule and costs for environmental mitigation and permit compliance.

Public Transportation Modernization Improvement & Service Enhancement Account (PTMISEA): PTMISEA was created by Proposition 1B, the Highway Safety, Traffic Reduction, Air Quality, and Port Security Bond Act of 2006. Of the \$19.925 billion available to Transportation, \$3.6 billion dollars was allocated to PTMISEA to be available to transit operators over a ten-year period. PTMISEA funds may be used for transit rehabilitation, safety or modernization improvements, capital service enhancements or expansions, new capital projects, bus rapid transit improvements, or rolling stock (buses and rail cars) procurement, rehabilitation or replacement. Funds in this account are appropriated annually by the Legislature to the State Controller's Office (SCO) for allocation in accordance with Public Utilities Code formula distributions: 50% allocated to Local Operators based on fare-box revenue and 50% to Regional Entities based on population.

Regional Improvement Program (RIP): The RIP is one of two funding programs in the State Transportation Improvement Program (STIP). The RIP receives 75% of the STIP funds and the second program, the Interregional Improvement Program receives 25% of STIP funds. RIP funds are allocated every two years by the California Transportation Commission (CTC) to projects submitted by Regional Transportation Planning Agencies (RTPAs) in their Regional Transportation Improvement Programs (RTIPs).

Regional Surface Transportation Program (RSTP): The RSTP was established by the State of California to utilize federal Surface Transportation Program funds for a wide variety of transportation projects. The State exchanges these federal funds for less restrictive state funds to maximize the ability of local agencies to use the funds for transportation purposes including planning, construction of improvements, maintenance and operation of public streets, and pedestrian and bicycle projects.

Regional Transportation Improvement Program (RTIP): NCTC submits regional transportation projects to the California Transportation Commission (CTC) for funding in a list called the RTIP. The RTIP is a five-year program that is updated every two years. Projects in the RTIP are funded from the Regional Improvement Program (RIP).

Regional Transportation Mitigation Fee (RTMF): The Western Nevada County Regional Transportation Mitigation Fee Program was established in 2001 through a partnership of Nevada County, City of Nevada City, City of Grass Valley, and the Nevada County Transportation Commission (NCTC). The RTMF Program was developed to collect impact fees from new development to help fund transportation improvement projects needed to accommodate growth in the region of western Nevada County.

Regional Transportation Plan (RTP): The Regional Transportation Plan has been developed to document transportation policy, actions, and funding recommendations that will meet the short- and long-term access and mobility needs of Nevada County residents over the next 20 years. This document is designed to guide the systematic development of a comprehensive multi-modal transportation system for Nevada County.

Regional Transportation Planning Agency (RTPA): County or multi-county entities charged by state law in meeting certain transportation planning requirements. As the RTPA for Nevada County, NCTC coordinates transportation planning for Grass Valley, Nevada City, Nevada County, and the Town of Truckee.

Request for Proposal (RFP): A document that solicits proposals, often made through a bidding process, by an agency or company interested in procurement of a commodity, service, or valuable asset, to potential suppliers to submit business proposals.

Rural Counties Task Force (RCTF): There are 26 rural county Regional Transportation Planning Agencies (RTPAs) or Local Transportation Commissions represented on the Rural Counties Task Force (RCTF). The RCTF is an informal organization with no budget or staff that generally meets every other month. A member of the CTC, usually acts as liaison to the RCTF, and CTC and Caltrans staff typically attend these meetings to explain and discuss changing statewide transportation issues that may be of concern to the rural counties.

Rural Planning Assistance (RPA): Annually the 26 rural RTPAs receive state transportation planning funding, known as RPA, on a reimbursement basis, after costs are incurred and paid for using local funds.

Social Services Transportation Advisory Council (SSTAC): Consists of representatives of potential transit users including the general public, seniors and/or disabled; social service providers for seniors, disabled, and persons of limited means; local consolidated transportation service agencies; and Truckee residents who represent the senior and Hispanic communities. The SSTAC meets at least once annually and has the following responsibilities:

- To maintain and improve transportation services to the residents of Nevada County, particularly the elderly and disabled.
- Review and recommend action to the NCTC relative to the identification of unmet transit needs and advise the Commission on transit issues, including coordination and consolidation of specialized transportation services.
- Provide a forum for members to share information and concerns about existing elderly and handicapped transportation resources.

State Highway Operations and Protection Program (SHOPP): The SHOPP is a four-year listing of projects prepared by Caltrans.

State Transit Assistance (STA): These funds are provided by the State for the development and support of public transportation needs. They are allocated by the State Controller's Office to each county based on population and transit performance.

State Transportation Improvement Program (STIP): The STIP is a multi-year capital improvement program of transportation projects on and off the State Highway System, funded with revenues from the Transportation Investment Fund and other funding sources. STIP programming generally occurs every two years. The STIP has two funding programs, the Regional Improvement Program and the Interregional Improvement Program.

Technical Advisory Committee (TAC): The Technical Advisory Committee (TAC) is made up of representatives of local public works and planning departments, Caltrans District 3, public airport operators, the air pollution control district, public transit operators, and the NCTC consultant engineer on retainer. Members are assigned by staff of local jurisdictions and other participating organizations. Any decisions made or actions proposed by the TAC shall be subject to the review and approval of the NCTC.

TAC responsibilities include:

- Provide technical input, assistance, and recommendations to the Commission to ensure there is comprehensive coordination and cooperation in the transportation planning process for Nevada County.
- Review and comment on comprehensive regional transportation plans for the area, which include the Regional Transportation Plan (RTP), the Regional Transportation Improvement Program (RTIP), and the Overall Work Program (OWP).
- Coordinate efforts and discussions to create and maintain circulation elements of the General Plan and specific plans of the member governments.

Transit Development Plan (TDP): Transit Development Plans study the County's transit services. They help identify transit service needs, prioritize improvements and determine the resources required for implementing modified or new service. The plans also provide a foundation for requests for State and federal funding,

Transit Services Commission (TSC): This commission oversees and advises as necessary the daily operations of the western Nevada County transit system. The TSC has the following responsibilities:

- Establish fares;
- Adopt the level of transit and paratransit services, including route structure and service areas;
- Monitor public response;
- Approve proposed purchase of additional vehicles;
- Review and approve the annual budget for transit and paratransit operations.

Transportation Development Act (TDA): The Transportation Development Act was enacted in 1971 and provides two major sources of funding for public transportation: the Local Transportation Fund (LTF) and the State Transit Assistance fund (STA). The TDA funds a wide variety of transportation programs, including planning and programming activities, pedestrian and bicycle facilities, community transit services, and public transportation projects. One of NCTC's major responsibilities is the administration of TDA funding in Nevada County.

Travel Demand Model (also Traffic Model): A computer model used to estimate travel behavior and travel demand for a specific future time frame, based on a number of assumptions. In general, travel analysis is performed to assist decision makers in making informed transportation planning decisions. The strength of modern travel demand forecasting is the ability to ask critical "what if" questions about proposed plans and policies.

Truckee North Tahoe Transportation Management Association (TNT/TMA): The Truckee North Tahoe Transportation Management Association is dedicated to fostering public-private partnerships and resources for the advocacy and promotion of innovative solutions to the unique transportation challenges of the Truckee-North Lake Tahoe Resort Triangle. The TNT/TMA is a planning stakeholder and partner with NCTC.

Truckee Tahoe Airport Land Use Commission (TTALUC): The Truckee Tahoe Airport is an "intercounty" airport situated in both Nevada County and Placer County; therefore, a special ALUC with representatives from both counties was formed. Six members are selected, one each, by Placer and Nevada Counties' Board of Supervisors, City Selection Committees, and Airport Managers of each county. A seventh member is chosen by the other six members to represent the general public. NCTC authorized its staff on May 19, 2010, to provide staff support to the TTALUC.

Truckee Tahoe Airport Land Use Compatibility Plan (TTALUCP): A document referred to by the TTALUC and individuals seeking to review standards for land use planning in the vicinity of the Truckee Tahoe Airport. The plan defines compatible land uses for noise, safety, airspace protection, and overflight. The TTALUC performs consistency determinations for proposed projects in the area covered by the Compatibility Plan as needed.

Vehicle Miles Traveled (VMT): VMT is a metric of the total miles traveled by vehicles in a defined area over a defined period of time and is often used to estimate the environmental impacts of driving, such as Greenhouse Gases and air pollutant emissions. Factors that influence VMT include travel mode, number of trips, and distance traveled. California jurisdictions are transitioning from a Level of Service (LOS) metric to a Vehicle Miles Traveled (VMT) metric within the California Environmental Quality Act's (CEQA) transportation analysis.

Table 1

Budget Summary FY2025/26 OWP DRAFT

Revenues	DRAFT	Amendment 2	Difference
	FY 2025/26	FY 2024/25	
LTF Administration	703,728.33	776,509.69	-72,781.36
LTF Planning	111,344.77	141,082.89	-29,738.12
LTF Contingency	146,297.62	142,755.59	3,542.03
Rural Planning Assistance (RPA) <i>Formula</i>	466,500.00	294,000.00	172,500.00
Rural Planning Assistance (RPA) <i>Formula</i> Carryover	0.00	19,156.13	-19,156.13
Rural Planning Assistance (RPA) Grants	38,240.00	60,760.00	-22,520.00
Rural Planning Assistance (RPA) G rants Carryover	199,998.20	174,893.58	25,104.62
Regional Transportation Mitigation Fees (RTMF)	7,500.00	7,500.00	0.00
Strategic Partnership Grant (FTA 5304)	170,000.00	170,000.00	0.00
RCTF Dues	36,853.81	36,000.00	853.81
STIP Planning Funds (PPM)	130,283.72	130,283.72	0.00
ALUC Fees	15,000.00	15,000.00	0.00
Regional Surface Transportation Program (RSTP)	30,000.00	33,797.13	-3,797.13
LTF Carryover	0.00	53,851.77	-53,851.77
Senate Bill 125 (SB125) Administration	20,000.00	20,000.00	0.00
TOTAL	2,075,746.45	2,075,590.51	155.94

Expenditures	DRAFT	Amendment 2	Difference
	FY 2025/26	FY 2024/25	
Salary	719,915.72	696,973.04	22,942.68
Benefits	236,329.88	231,610.35	4,719.53
Direct (Table 2)	666,088.20	819,787.81	-153,699.61
Indirect (Table 3)	180,010.00	179,180.00	830.00
Contingency	273,402.65	148,039.31	125,363.34
TOTAL	2,075,746.45	2,075,590.51	155.94

	Estimated	Estimated	Difference
Fund Balance	FY 2025/26	FY 2024/25	
	\$119,211.17	\$119,211.17	\$0.00

Table 2

Direct Costs Budget FY 2025/26 OWP Draft

Work Element		DRAFT 25/26	24/25 Amendment 2	Difference	Source
1.1	Intergovernmental Advocacy	\$52,000.00	\$52,000.00	\$0.00	LTF
1.1	Human Resources Consulting	\$5,000.00	\$5,000.00	\$0.00	LTF
1.2	Fiscal Auditor	\$60,050.00	\$58,190.00	\$1,860.00	LTF
1.2	Triennial Performance Audits (completed 24/25)	\$0.00	\$47,020.00	(\$47,020.00)	LTF
2.1	Traffic Counts	\$10,000.00	\$10,000.00	\$0.00	RPA, PPM, LTF
2.1	Transportation Engineering	\$40,000.00	\$40,000.00	\$0.00	RPA, PPM, LTF
2.1	Local Agencies Participation in Regional Planning	\$30,000.00	\$30,000.00	\$0.00	RPA, PPM, LTF
2.1.1	Regional Transportation Plan Update (consultant work completed in 24/25)	\$0.00	\$17,406.95	(\$17,406.95)	RPA
2.3.3	Eastern Nevada County Transit Development Plan (consultant work completed in 24/25)	\$0.00	\$8,580.90	(\$8,580.90)	LTF
2.3.4	Reenvisioning Transit in Western Nev Co.	\$170,000.00	\$170,000.00	\$0.00	FTA 5304
2.4	Consultant Prepared ATP Applications	\$30,000.00	\$30,000.00	\$0.00	RSTP
2.4	Statewide Local Streets and Roads Needs Assessment	\$800.00	\$800.00	\$0.00	LTF
2.4.1	Local Road Safety Plan (completed 24/25)	\$0.00	\$3,061.72	(\$3,061.72)	RSTP
2.4.2	Airport Land Use Commission Planning & Reviews	\$15,000.00	\$15,000.00	\$0.00	ALUC, LTF
2.4.3	Zion St. Mobility/School Access study	\$199,998.20	\$199,998.20	\$0.00	PPM & RPA Grant
2.4.4	RCTF Rural Induced Demand Study (consultant work completed in 24/25)	\$0.00	\$61,858.68	(\$61,858.68)	RPA Grant
2.4.5	Rural Counties Task Force Chairman Travel Mileage Meals Lodging	\$15,000.00	\$17,076.46	(\$2,076.46)	RCTF Dues
2.4.5a	Calcog Academy for Regional Leadership Administration	\$25,000.00	\$25,000.00	\$0.00	RPA Grant
2.4.5b	Rural Counties Task Force Administrative Manual and Training	\$13,240.00	\$0.00	\$13,240.00	RPA Grant
2.4.6	Zero Emission Vehicle Transition Plan for County of Nevada (completed 24/25)	\$0.00	\$28,794.90	(\$28,794.90)	RPA Grant
TOTAL		\$666,088.20	\$819,787.81	(\$153,699.61)	

Table 3

Indirect Costs Budget FY 2025/26 Draft OWP

ACCT	ITEM	DRAFT FY 25/26	Amendment 2 FY 24/25	Variance	Variance %
13.2	Nevada County Auditor/Controller	\$30,000	\$30,000	\$0	0.00%
13.1	Legal Counsel	\$15,000	\$15,000	\$0	0.00%
13.3	TNT/TMA Membership	\$4,600	\$4,600	\$0	0.00%
13.21	Website Update/Maintenance	\$12,670	\$11,840	\$830	7.01%
13.17	Nevada County ERC Membership	\$1,000	\$1,000	\$0	0.00%
	Insurance	\$22,250	\$22,250	\$0	0.00%
1.1	General Liability & Errors and Omissions	\$18,250	\$18,250	\$0	0.00%
1.3	Workers' Compensation	\$4,000	\$4,000	\$0	0.00%
	Office Expenses	\$32,590	\$32,590	\$0	0.00%
2.1	Phones	\$900	\$900	\$0	0.00%
2.2	Equipment Rental	\$500	\$500	\$0	0.00%
2.3	Records Storage	\$2,000	\$2,000	\$0	0.00%
2.4	Equipment Maintenance Agreements	\$1,000	\$1,000	\$0	0.00%
2.5	Publications/Legal Notices	\$2,500	\$2,500	\$0	0.00%
2.6	Janitorial Services	\$1,500	\$1,500	\$0	0.00%
2.7	Payroll Service	\$5,000	\$5,000	\$0	0.00%
2.8	Supplies	\$2,500	\$2,500	\$0	0.00%
2.9	Printing & Reproduction	\$250	\$250	\$0	0.00%
2.10	Subscriptions	\$320	\$320	\$0	0.00%
2.11	Computer Software & Network Maintenance	\$11,500	\$11,500	\$0	0.00%
2.12	Postage	\$300	\$300	\$0	0.00%
2.13	Telework Reimbursement	\$4,320	\$4,320	\$0	0.00%
3	Equipment	\$4,800	\$4,800	\$0	0.00%
	Copier/Printer	\$800	\$800	\$0	0.00%
	Office Furniture	\$500	\$500	\$0	0.00%
	Laptop /Computer	\$3,000	\$3,000	\$0	0.00%
	Miscellaneous	\$500	\$500	\$0	0.00%
5	Training and Conferences	\$2,000	\$2,000	\$0	0.00%
6	Office Lease	\$28,000	\$28,000	\$0	0.00%
7	Utilities	\$3,000	\$3,000	\$0	0.00%
8	Travel - Meals & Lodging	\$10,000	\$10,000	\$0	0.00%
9	Travel - Mileage/Fares/Parking	\$10,000	\$10,000	\$0	0.00%
10	Professional & Service Organizations	\$4,100	\$4,100	\$0	0.00%
	TOTAL	\$180,010	\$179,180	\$830	0.46%

Table 4

Revenues - FY 2025/26 DRAFT OWP

Item # 5.

Work Element	25/26 LTF	LTF Carryover	RPA Grants	RPA Grant Carryover	RPA Formula	RPA Formula Carryover	ALUC Fees	RTMF	STIP Planning PPM	RSTP	Strategic Partnership Grant (FTA 5304)	Other	TOTAL
1.1 General Services	350,097.84							7,500.00					357,597.84
1.2 Fiscal Administration	353,630.49											20,000.00 (1)	373,630.49
2.1 Transportation Planning	13,078.99				146,299.25				3,178.69				162,556.93
2.2 Transportation Improvement Program	15,885.40				84,386.11								100,271.51
2.3 Transit & Paratransit Programs	18,132.61				56,395.68								74,528.29
2.3.4 Reenvisioning Transit in Western Nev Co.	8,608.35				31,319.65						170,000.00		209,928.00
2.4 Coordination of Regional Planning	36,412.50				117,556.40					30,000.00			183,968.90
2.4.2 Airport Land Use Commission Planning & Reviews	19,226.92						15,000.00						34,226.92
2.4.3 Zion St. Mobility/School Access study				199,998.20	30,542.92								230,541.12
2.4.5 Rural Counties Task Force Chair Activities	0.00	0.00										36,853.81 (2)	36,853.81
2.4.5a Calcog Academy for Regional Leadership Administration	0.00		25,000.00										25,000.00
2.4.5b Rural Counties Task Force Admin Manual and Training	0.00		13,240.00	0.00		0.00							13,240.00
Contingency	133,225.90	13,071.72							127,105.03				273,402.65
Totals	948,299.00	13,071.72	38,240.00	199,998.20	466,500.00	0.00	15,000.00	7,500.00	130,283.72	30,000.00	170,000.00	56,853.81	2,075,746.45

Totals may not equal addition of amounts in columns due to rounding.

SB125 Admin (1)

RCTF Dues (2) S/B 36,500

Table 5

Item # 5.

Expenditures - FY 2025/26 DRAFT OWP

Work Elements		PY	Staff	Indirect	Transportation Engineering	Consulting		Local Agency	Other	Total
1.1	General Services	1.69	252,975.97	47,621.87		57,000.00	(1)			357,597.84
1.2	Fiscal Administration	1.63	263,901.86	49,678.63					60,050.00 (2)	373,630.49
2.1	Transportation Planning	0.35	69,477.94	13,078.99	40,000.00			40,000.00 (3)		162,556.93
2.2	Transportation Improvement Program	0.40	84,386.11	15,885.40						100,271.51
2.3	Transit & Paratransit Programs	0.28	56,395.68	18,132.61						74,528.29
2.3.4	Reenvisioning Transit in Western Nev Co.	0.00	39,928.00			170,000.00				209,928.00
2.4	Coordination of Regional Planning	0.55	117,556.40	35,612.50		30,000.00	(4)		800.00 (4)	183,968.90
2.4.2	Airport Land Use Commission Planning & Reviews	0.10	19,226.92			15,000.00				34,226.92
2.4.3	Zion St. Mobility/School Access study	0.14	30,542.92			199,998.20				230,541.12
2.4.5	Rural Counties Task Force Chair Activities	0.00	21,853.81						15,000.00 (5)	36,853.81
2.4.5a	CalcoG Academy for Regional Leadership Admin.								25,000.00 (5)	25,000.00
2.4.5b	Rural Counties Task Force Admin Manual and Training		0.00			13,240.00				13,240.00
	Contingency								273,402.65	273,402.65
TOTAL		5.48	956,245.60	180,010.00	40,000.00	485,238.20		40,000.00	374,252.65	2,075,746.45

Totals may not equal addition of amounts in columns due to rounding.

Notes:

- (1) \$52,000 Intergovernmental Advocacy, \$5,000 Human Resources Consulting
- (2) \$60,050 Fiscal Audit Contract
- (3) \$10,000 Traffic Counts, Local Agency (WE 2.1): Nev. Co. \$7,500; Truckee \$7,500; Nevada City \$7,500; Grass Valley \$7,500.
- (4) \$30,000 ATP Application preparation, \$800 Statewide Local Streets and Roads
- (5) \$15,000 RCTF Travel Expense; \$25,000 RCTF CALCOG Leadership Academy

Indirect Costs are paid with local funds, no RPA or STIP planning funds are used.

ACCT	Table 6 Budget Detail FY 2025/26 DRAFT OWP	ALLOCATION
1	Insurance	22,250.00
1.1	General Liability & Errors and Omissions	18,250.00
1.3	Workers' Compensation	4,000.00
2	Office Expenses	32,590.00
2.1	Phones	900.00
2.2	Equipment Rental	500.00
2.3	Records Storage	2,000.00
2.4	Equipment Maintenance Agreements	1,000.00
2.5	Publications/Legal Notices	2,500.00
2.6	Janitorial Services - carpets, blinds, interior painting, etc.	1,500.00
2.7	Payroll Service	5,000.00
2.8	Supplies	2,500.00
2.9	Printing & Reproduction	250.00
2.10	Subscriptions	320.00
2.11	Computer Software & Network Maintenance	11,500.00
2.12	Postage	300.00
2.13	Telework Reimbursement	4,320.00
3	Equipment	4,800.00
5	Training and Conferences	2,000.00
6	Office Lease	28,000.00
7	Utilities	3,000.00
8	Travel - Meals & Lodging	10,000.00
9	Travel - Mileage/ Fares/ Parking	10,000.00
10	Professional & Service Organizations	4,100.00
	Subtotal Items 1-10	116,740.00
11	Contingency	273,402.65
12	Salaries, Wages, & Benefits	956,245.60
12.1	Executive Director	247,676.99
12.11	Deputy Executive Director	218,538.07
12.2	Administrative Services Officer	158,324.31
12.3	Transportation Planner	152,376.25
12.4	Administrative Assistant	108,800.17
12.8	Temporary Employee	70,529.81
13	Other Services	729,358.20
13.1	Legal Counsel	15,000.00
13.2	Nevada County Auditor/Controller	30,000.00
13.3	TNT/TMA Membership	4,600.00
13.4	Fiscal Audits (WE 1.2)	60,050.00
13.6	Triennial Performance Audits (WE 1.2)	0.00
13.7	Traffic Counts (WE 2.1)	10,000.00
13.8	Transportation Engineering (WE 2.1)	40,000.00
13.11a	Local Agencies (WE 2.1)	30,000.00
13.11b	Local Agency LRSP (WE 2.4.1)	0.00
13.16a	Rural Counties Task Force Membership (WE 2.4)	0.00
13.16b	Statewide Local Streets and Roads Needs Assessment (WE 2.4)	800.00
13.17	Nevada County ERC Membership	1,000.00
13.19	Eastern Nev. Co. Transit Development Plan (WE 2.3.3)	0.00
13.62	Reenvisioning Transit in Western Nev Co.(WE 2.3.4)	170,000.00
13.21	Website Update/Maintenance	12,670.00
13.23	Regional Transportation Plan Update (WE 2.1.1)	0.00
13.30	Airport Land Use Commission Project Reviews (WE 2.4.2)	15,000.00
13.48	Human Resources Consulting (WE 1.1)	5,000.00
13.57	RCTF Rural Induced Demand Study (WE 2.4.4)	0.00
13.59	Intergovernmental Advocacy (WE 1.1)	52,000.00
13.52	Consultant Prepared ATP Applications (WE 2.4)	30,000.00
13.61	Zion St .Mobility/School Access study (WE 2.4.3)	199,998.20
8.1 & 9.1	Rural Counties Task Force Chairman Travel Mileage Meals Lodging (2.4.5)	15,000.00
13.63	Rural Counties Task Force Administrative Manual and Training (2.4.5b)	13,240.00
13.64	Calcog Academy for Regional Leadership Administration(2.4.5a)	25,000.00
	TOTAL Budget Items 1-13	2,075,746.45
	Indirect Costs	
	Accounts 1 through 10	116,740.00
	Legal	15,000.00
	Nevada Co. Auditor/Controller	30,000.00
	TNT/TMA	4,600.00
	Nevada Co. ERC Membership	1,000.00
	Website Update/Maintenance	12,670.00
	Total Indirect Costs	180,010.00
	Calculated Indirect Rate Indirect Cost / Salaries & Benefits	18.82%

Item # 5.



City of Grass Valley City Council Agenda Action Sheet

Title: 2025 Annual Measure E Street Rehabilitation Project - Authorization to Award Contract

CEQA: Categorically Exempt - Section 15301 “Existing Facilities”

Recommendation: That Council 1) award a contract for the 2025 Annual Measure E Street Rehabilitation Project to Sierra Nevada Construction, Inc., 2) authorize the Mayor to execute the construction contract, subject to legal review and, 3) authorize the City Engineer to approve construction change orders for up to 10% of the contract amount.

Prepared by: Bjorn P. Jones, PE, City Engineer

Council Meeting Date: 4/8/2025

Date Prepared: 4/3/2025

Agenda: Consent

Background Information: The 2025 Annual Measure E Street Rehabilitation Project involves the pavement resurfacing of East Main St, Brunswick Ave, Dorsey Dr, Sutton Way, Olympic Park Circle, Old Tunnel Road and Sierra College Drive. Project work primarily includes a micro surfacing overlay, pavement markings, and striping improvements.

Bids were opened on March 27, 2025, and five bids were received. A bid summary is attached. Staff reviewed the low bid of \$1,004,007.00 submitted by Sierra Nevada Construction, Inc. and determined the bid to be complete and responsive.

Staff recommends that Council authorize award and execution of a contract for the 2025 Annual Measure E Street Rehabilitation Project to Sierra Nevada Construction, Inc. in the amount of \$1,004,007.00 and authorize the City Engineer to approve construction change orders for up to 10% of the contract amount.

Council Goals/Objectives: The 2025 Annual Measure E Street Rehabilitation Project executes portions of work tasks towards achieving/maintaining Strategic Plan Goal - Transportation

Fiscal Impact: The 2025 Annual Measure E Street Rehabilitation Project was budgeted at \$1,000,000 in the FY 24/25 CIP Budget with Measure E funds. Additional Measure E funds are available to fund the small shortfall to the final contract amount.

Funds Available: Yes

Account #: 300-406-63850

Reviewed by: City Manager

**2025 MEASURE E ANNUAL STREET REHABILITATION PROJECT
PROJECT #24-07
BID SUMMARY**

Date: MARCH 27, 2025; 3:30 p.m.

Engineer's Estimate: 1,000,000.00\$

BIDDER	DATE/TIME REC'VD	AMOUNT
Consolidated Engineering , Inc	3/27/2025 3:15 PM	\$1,169,999.00
Sierra Nevada Construction, Inc	3/27/2025 3:12 PM	\$1,004,007.00
Pavement Coatings, Co	3/27/2025 3:07 PM	\$1,096,539.00
VSS International, Inc	3/27/2025 3:01 PM	\$1,111,211.00

*** Apparent Low Bidder**

2025 MEASURE E ANNUAL STREET REHABILITATION PROJECT
PROJECT #24-07
BID SUMMARY

Date: MARCH 27, 2025; 3:30 p.m.

Engineer's Estimate: 1,000,000.00\$

BIDDER	DATE/TIME REC'VD	AMOUNT
Consolidated Eng Inc	March 27 3:15 PM	1,169,999.00
Sierra Nevada Construction * Inc	3/27/2025 3:12 PM	1,004,007.00
Pavement Coatings, Co	3/27/2025 3:07 PM	1,096,539.00
VSS international, Inc	3/27, 2025 3:01 PM	1,111,211.00

* Apparent Low Bidder



**City of Grass Valley
City Council
Agenda Action Sheet**

Title: Extension of an agreement between the City and Nevada County for the County to provide building inspection, plan review, and other related building services for the City.

CEQA: Not a project

Recommendation: Authorize the Mayor to sign the attached Agreement between the City of Grass Valley and Nevada County for the provision of building services, subject to legal review.

Prepared by: Jon May, Building Official

Council Meeting Date: 4/8/2025

Date Prepared: 4/3/2025

Agenda: Consent

Background Information: Since July 2014, the City has had a contract with Nevada County to provide the City's with back up support for building plan check and inspection services. On May 29, 2019, the City signed a contract for supplemental building services with a private consulting firm while maintaining the contract with the County. Staff would like to maintain the contract with Nevada County to continue that working relationship. Attached is a one-year extension of the existing agreement with the County. The continuation of this contract will provide staff with flexibility to provide effective building services to the community.

Council Goals/Objectives: The contract will meet the City's Strategic Plan goal of providing high performance government and quality customer service.

Fiscal Impact: Building services are paid from account 100-302. These funds are budgeted from year to year and paid through fees collected from building permits.

Funds Available: Yes

Account #: 100-302

Reviewed by: City Manager

Attachments: Proposed Agreement

**EXTENSION OF AGREEMENT
BETWEEN THE CITY OF GRASS VALLEY AND COUNTY OF NEVADA
FOR THE PROVISION OF BUILDING SERVICES**

PREAMBLE

This Agreement is made between the **County of Nevada** (hereinafter "COUNTY") and the **City of Grass Valley** (hereinafter "CITY"), effective May 1, 2025. In consideration for this Agreement, COUNTY will provide CITY with building services and resources described herein, and CITY will pay COUNTY for said services and resources in accordance with the terms, conditions, and rates described herein.

TERMS OF AGREEMENT

1. General

COUNTY, through its Community Development Agency, will provide CITY with building department services on an "as needed" basis as described herein.

2. Period of the Agreement

This Agreement shall be effective May 1, 2025 through June 20, 2026, unless terminated earlier by either party upon thirty (30) days written notice to the other party.

If requested by CITY, COUNTY shall cooperate with CITY and contractors to ensure a smooth transition at the time of termination of this Agreement, regardless of the nature or timing of the termination. COUNTY shall cooperate with CITY to accomplish a transition of the services being terminated to CITY or to any replacement provider designated by CITY. Such transition services shall be subject to the billing rates described in Section 5 below.

3. Services to be provided by County

3.1. COUNTY will provide a building inspector to CITY to complete building inspections on an as-needed basis. CITY must approve of assigned inspector.

3.2. COUNTY inspector services will include the following tasks as requested and as time allows:

3.2.2. Customer service requests related to existing and proposed projects.

3.2.3. Complete basic administrative tasks as associated to building inspections and project plan reviews.

3.2.4. Provide code enforcement inspections and provide appropriate code and state law references for violations pertaining to the building code.

3.3. COUNTY to provide plan review services at COUNTY offices as project submittal demands increase. The City Building Official, and County Director of Building, if needed, will review and determine which plan reviews are sent to COUNTY for review. COUNTY plan review fees shall cover the costs of the 1st and 2nd reviews. Should additional plan reviews be needed, the COUNTY fees shall be based on the hourly billing rate per the schedule of hourly billing services shown in Section 5 of this Agreement. COUNTY to provide clear, concise, and thorough plan review comment letters from which design professionals, contractors, business owners, and

homeowners can work from and understand. Should COUNTY inspector first check in at COUNTY offices prior to arrival at CITY office, inspector can deliver plan review approval and comment letters upon arrival at CITY.

- 3.4. COUNTY, upon receipt of a plan review at its offices, shall provide CITY with an estimated plan review turn-around schedule. COUNTY commits to completing initial plan reviews for the more common projects within two weeks, and within 4 weeks for larger and more complex projects.
- 3.5. COUNTY to provide Building Official services as needed.
- 3.6. COUNTY to provide review and approval of grading plans and associated inspections.
- 3.7. COUNTY to provide Certified Access Specialist (CASP) services as requested.
- 3.8. COUNTY will apply CITY's code and administrative procedures for all services provided under this Agreement.
- 3.9. COUNTY to provide CITY with a monthly invoice that provides sufficient details for all expenditures and charges. Invoice to include reasonable documentation of expenses incurred, including but not limited to timesheets and plan review reimbursements noted in 4.4 below.

4. CITY Responsibilities

- 4.1. CITY to notify COUNTY 24 hours prior to building services at CITY being needed, and/or if the need is expected to be less than 2 hours. COUNTY to complete regular administrative tasks associated to inspection information processing from COUNTY offices.
- 4.2. City to notify County a minimum of four (4) weeks in advance when services are needed for an extended period of time to accommodate planned absences and training of CITY staff.
- 4.3. CITY, if need for inspection services is less than 2 hours, agrees to pay a 2-hour minimum per day for inspection services.
- 4.4. CITY to provide cover letter with all plan reviews conducted at COUNTY offices specifying the total plan review fee collected by CITY, and the portion to be provided to the COUNTY for its service.
- 4.5. CITY to pay COUNTY 65% of the plan review fee collected for plans reviewed by COUNTY offices under section 3.4 above. CITY and COUNTY will monitor this percentage and may increase the percentage up to 70%. An increase shall be based on a review that ensures both the CITY'S and COUNTY's plan review costs are adequately recouped. COUNTY shall provide no less than sixty (60) days' written notice of any percentage increase.
- 4.6. CITY will conduct all reviews and appeals of decisions and determinations made by COUNTY staff acting under section 3 above.

5. Rates for Services and Support

5.1. Schedule for Hourly Billing Services:

Certified Building Official	\$160.00/Hr	Certified Building Official	\$160.00/Hr
Certified Building Inspector	\$115.00/Hr	Certified Building Inspector	\$115.00/Hr
Certified Permit Technician	\$105.00/Hr	Certified Permit Technician	\$105.00/Hr
Certified Plans Examiner	\$155.00/Hr	Certified Plans Examiner	\$155.00/Hr
Certified Access Specialist (CASp)	\$155.00/Hr	Certified Access Specialist (CASp)	\$155.00/Hr
Emergency Call Out (2HrMin.) \$200.00/Hr		Emergency Call Out (2HrMin.) \$200.00/Hr	
Reimbursable Expenses		Reimbursable Expenses	
Time & Materials		Time & Materials	
Certified Building Official	\$160.00/Hr	Certified Building Official	\$160.00/Hr

5.2. Rate Adjustments

All rates shall be subject to annual adjustment to reflect the actual cost of providing services. Labor rates shall be based on the Countywide Cost Plan as approved by the office of the State Controller. COUNTY will provide CITY with no less than sixty (60) days written notice prior to any rate adjustments.

6. Contact Persons

For CITY OF GRASS VALLEY
 Jon May, Building Official
 125 East Main Street
 Grass Valley, CA 95945
 (530) 274-4717

For the COUNTY OF NEVADA:
 George Schureck, Director of Building
 950 Maidu Avenue
 Nevada City, CA 95959
 (530) 265-1222

7. Notices

All notices required by this Agreement shall be sent first-class mail or personally delivered to

the persons and addresses set forth in above. Such addresses may be amended from time to time by the parties, which shall not be deemed or construed an amendment to this Agreement.

8. Authority

CITY and COUNTY represent that they have the authority to enter into this Agreement and perform its terms. Each party warrants that the individuals signing this Agreement have the legal authority to do so and bind each party to perform the obligations set forth herein.

9. Mutual Indemnity

The CITY shall indemnify, defend and hold harmless the COUNTY and its officers, officials, employees, agents and volunteers from any and all liabilities, claims, demands, damages, losses and expenses (including, without limitation, defense costs and attorney fees) which result from the alleged negligent acts, errors or omissions of the CITY, its employees or agents, and COUNTY employees for acts or omissions resulting from performance under Section 3 of this agreement.

COUNTY agrees to indemnify, defend and hold harmless the CITY and its officers, officials, employees, agents and volunteers from any and all liabilities, claims, demands, damages, losses and expenses (including, without limitation, defense costs and attorney fees) which result from the alleged gross negligence or willful misconduct, of its employees acting under Section 3. COUNTY additionally agrees to indemnify and defend CITY for any breach of contract or alleged negligence, error, or omission of its employees acting outside of Section 3.

10. Miscellaneous Provisions

Time is of the essence in this Agreement and all parties agree to proceed with due diligence to fulfill its terms. This Agreement shall be interpreted in accordance with the laws of the State of California, and the exclusive jurisdiction and venue over any litigation arising here from shall be the appropriate court of Nevada County, California. This Agreement contains the entire agreement between the parties with regard to all matters contained herein and supersedes all previous discussions, representations, and correspondence between the parties. If any provision of this Agreement shall be declared void, voidable, illegal or unenforceable by any court of competent jurisdiction, administrative panel or arbitration panel, such declaration or finding shall not void or cancel the other provisions of this Agreement, which shall remain binding upon the parties. No modification of this Agreement may be made except in a recorded writing signed by all parties that is approved in the manner required by California law for contracting with government agencies. This Agreement may be signed in counterparts, each of which shall constitute an original and collectively shall constitute one instrument. The parties hereto have independently reviewed this Agreement and no presumption shall arise from the fact that it was prepared by or at the request of either party. The parties shall fully cooperate with each other in performance of this Agreement, including execution of any and all reasonably required documents and take any reasonably required further acts.

11. Employee Status

Notwithstanding the parties' mutual indemnity under section 9, the CITY and COUNTY are each responsible for all benefits, salaries, and other employer duties for their respective employees.

IN WITNESS WHEREOF, the CITY OF GRASS VALLEY and COUNTY OF NEVADA
have executed this agreement on the day and year set forth below.

COUNTY OF NEVADA

CITY OF GRASS VALLEY

Heidi Hall
Chair, Board of Supervisors

Hilary Hodge
Mayor

Dated: _____

Dated: _____

Attest:

Clerk of the Board of Supervisors

City Clerk

Approved as to Form:

County Counsel

Michael Colantuono, City Attorney



**City of Grass Valley
City Council
Agenda Action Sheet**

Title: Community Engagement Specialist Position

CEQA: Not a project.

Recommendation: That the City Council approve the creation of the Community Engagement Specialist position and authorize the promotion of an existing qualified employee to fill the position, with backfilling of any resulting vacancies.

Prepared by: Taylor Whittingslow, Deputy City Manager

Council Meeting Date: 4/8/2025

Date Prepared: 4/3/2025

Agenda: Consent

Background Information: Effective community engagement and communication are essential to maintaining transparency, fostering public trust, and ensuring citizens are well-informed about City initiatives. Currently, the City relies on an external social media contract for communication and outreach. By transitioning these responsibilities in-house, the City can enhance its engagement efforts while achieving cost savings.

The proposed Community Engagement Specialist position is designed to centralize and enhance the City's public communication efforts, social media management, event coordination, and community outreach. This role will also oversee city branding, facilitate public safety messaging, and administer the City's code compliance software. The position will be classified as full-time, exempt, and will report directly to the City Manager or a designee.

The creation of this role will allow the City to:

- Improve direct engagement with residents through enhanced communication strategies.
- Increase efficiency by consolidating digital and print media efforts under a dedicated in-house specialist.
- Improve oversight and coordination of public events, decorations, and community initiatives.
- Strengthen relationships with local businesses, organizations, and stakeholders.
- Enhance transparency by streamlining information dissemination and public inquiries.

The proposed salary range for the Community Engagement Specialist position will be a minimum of \$36.11 per hour, a median of \$45.14 per hour, and a maximum of \$57.92

per hour.

The establishment of the Community Engagement Specialist position aligns with the City's commitment to effective communication, enhanced public engagement, and operational efficiency. The position will provide a cost-neutral solution that benefits the City and its residents while leveraging internal talent. The staff recommends that the City Council approve the creation of this position and authorize staff to implement the necessary hiring and transition steps.

Council Goals/Objectives: The Community Engagement Specialist Position executes portions of work tasks towards achieving/maintaining Strategic Plan - Community Leadership

Fiscal Impact: Funding for this position will be sourced from the cost savings generated by reducing external social media contracts. The allocation of salary and benefits will be distributed across the General Fund, Sewer Fund, and Water Fund to ensure that there is no net impact on the General Fund.

Funds Available: Yes

Account #: General - 100, Sewer Enterprise - 510, Water Enterprise - 500

Reviewed by: City Manager

Attachments: Community Engagement Specialist



Community Engagement Specialist

Department: City Administration

FLSA Status: Exempt

Reports To: City Manager or Designee

Unit: 1, Full-time Employee

SUMMARY OF JOB PURPOSE *Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are **not** intended to reflect all duties performed within the job.*

This position requires a combination of strategic communication skills, creative design ability, event coordination expertise, and administrative oversight. The Community Engagement Specialist serves as a liaison between the City and the community, ensuring that public information is accessible, accurate, and engaging. The role also involves working across departments to support citywide initiatives and enhance community participation in municipal programs and events.

DISTINGUISHING CHARACTERISTICS

Under the direction of the City Manager or designee, this position is responsible for managing the City's social media, website, and digital communications, coordinating public events, overseeing city décor efforts, and developing graphic design materials to support city branding and outreach. Additionally, this role supervises the Pop-Up Events Coordinator, ensuring the successful execution of city-sponsored events and activities.

The Specialist will work closely with all city departments, including the Fire Department and Police Department, to facilitate clear communication and community outreach. This position also plays a key role in analyzing program activities, ensuring compliance with relevant laws, improving customer service with vendors, and assisting in grant applications and contract management. Furthermore, this role supports the implementation of the City Council's vision through creative and engaging public engagement strategies.

Additionally, this position serves as the administrator for City code compliance, responsible for obtaining and managing compliance software, overseeing staff usage of the software, and ensuring proper follow-up on code enforcement matters.

This position is designated as management for Labor Relations purposes and is considered exempt under the Fair Labor Standards Act (FLSA).

SUPERVISION RECEIVED AND EXERCISED

Receives administrative direction from the City Manager or designee. Exercises direct and indirect



Community Engagement Specialist

supervision over departments, divisions, management, professional, technical and office support personnel.

ESSENTIAL FUNCTIONS *The following duties are typical for this classification. Incumbents may not perform all of the listed duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.*

1. Develop and implement communication strategies to effectively inform the public about city initiatives, programs, and services.
2. Manage and update the City's social media platforms, website, and digital newsletters.
3. Create engaging content, including press releases, social media posts, graphics, and videos.
4. Monitor public inquiries on digital platforms and ensure timely, accurate responses.
5. Work with the Fire and Police Departments to communicate public safety messages and emergency updates.
6. Design marketing materials, infographics, event flyers, and other visual content to support city initiatives.
7. Ensure consistency in branding and messaging across all city communications.
8. Develop creative visuals for city programs, signage, and promotional materials.
9. Assist in designing presentations and reports that support the City Council's vision and priorities.
10. Plan and coordinate city events, public meetings, and community engagement initiatives.
11. Supervise the Pop-Up Events Coordinator, providing guidance and ensuring event success.
12. Collaborate with local businesses, nonprofits, and community organizations to enhance event participation and sponsorship opportunities.
13. Attend community meetings and represent the City at public functions.
14. Oversee seasonal and event-related decorations throughout the City, ensuring aesthetic appeal and alignment with city branding.
15. Coordinate with public works and local artists for beautification projects and public art displays.
16. Analyze program activities and develop corrective actions in conjunction with City management staff to improve effectiveness and efficiency.
17. Review applications for accuracy and compliance with pertinent laws, regulations, and city policies.
18. Work directly with City vendors to manage customer issues, improve customer service, and enhance service delivery.
19. Assist with contract management, ensuring compliance with city policies and performance expectations.
20. Assist in grant application preparation and submission, supporting city funding efforts for projects and initiatives.



Community Engagement Specialist

21. Work directly with the Fire and Police Departments to disseminate public safety information and coordinate emergency communication efforts.
22. Partner with other city departments to promote programs, services, and initiatives.
23. Assist in developing materials and engagement strategies that reflect and support the City Council's vision for the community.
24. Conduct community surveys and feedback initiatives to help guide decision-making and ensure alignment with resident needs.
25. Assist front counter staff with customer inquiries, transactions and general support.
26. Serve as the administrator for City code compliance software, ensuring its proper implementation and use.
27. Research, obtain, and manage code compliance software solutions.
28. Oversee staff usage of the compliance software, ensuring accurate documentation and reporting.
29. Follow up on code enforcement matters to ensure timely and effective resolution.
30. Work with relevant departments to improve efficiency and compliance processes.

KNOWLEDGE, SKILLS AND ABILITIES: *The following generally describes the knowledge and ability required to enter the job and/or be learned within a short period of time in order to successfully perform the assigned duties.*

Knowledge of:

1. Principles and practices of effective communication, public relations, and media engagement.
2. Social media management, website content administration, and digital marketing strategies.
3. Graphic design principles and tools such as Adobe Creative Suite and Canva.
4. Event planning, coordination, and execution.
5. Principles of branding, visual identity, and public messaging.
6. Practices of budget preparation and administration.
7. Methods used in customer service and office administration.

Ability to:

1. Independently perform a full range of varied complex, sensitive, highly responsible, and confidential office administrative, advanced clerical, and routine programmatic support functions of a general or specialized nature in support of assigned programs, division, and/or department with only occasional instruction or assistance.
2. Effectively manage multiple projects and deadlines.
3. Develop and maintain positive working relationships with community members, stakeholders, and colleagues.
4. Write and edit clear, compelling, and professional communication materials.



Community Engagement Specialist

5. Design engaging and visually appealing digital and print content.
6. Organize and execute community events, ensuring alignment with city goals.
7. Analyze program effectiveness and recommend improvements.
8. Adapt to changing priorities and remaining flexible in a dynamic work environment.
9. Work occasional evenings and weekends for events and public meetings.
10. Use tact, initiative, prudence, and independent judgment within general policy, procedural and legal guidelines.
11. Use computer technology and applications in the performance of daily activities.
12. Meet the physical requirements to safely and effectively perform assigned duties.
13. Organize, implement, and supervise departmental goals and City objectives.
14. Interpret and apply policies, laws, and regulations.
15. Prepare complex reports and documents.
16. Analyze problems, identify solutions, and implement recommendations.
17. Effectively negotiate solutions and contracts.
18. Plan, organize, direct, and supervise the work of staff.
19. Make presentations and represent the City in public forums.
20. Use computer programs effectively and communicate clearly.
21. Ability to step in and fulfill key responsibilities of the City's Front Counter Staff.

Minimum Qualifications:

Any combination of training and experience that would provide the required knowledge, skills and abilities is qualifying. A typical way to obtain the required qualifications would be:

1. Bachelor's degree in Communications, Public Relations, Marketing, Graphic Design, Public Administration, or a related field (or equivalent experience).
2. Experience in social media management, public relations, event coordination, or community outreach.
3. Strong writing, editing, and verbal communication skills.
4. Proficiency in social media platforms, website content management, and graphic design tools.
5. Experience in event planning, décor coordination, and vendor management.
6. Experience in code compliance administration, including software implementation and oversight, is preferred.
7. Experience in grant application preparation and contract management is preferred.

GENERAL QUALIFICATIONS



Community Engagement Specialist

License Requirements

A valid California Class C driver license or higher is required at the time of appointment. Individuals who do not meet this requirement due to a disability will be reviewed on a case-by- case basis.

Physical Requirements

Incumbents appointed to this class must have the mobility to work in a standard office or field environment, use standard office equipment and attend off-site meetings; intermittently operate a motor vehicle on surface streets with occasional exposure to weather conditions, and construction and traffic hazards; mobility to traverse uneven terrain, periodically standing, stooping, bending, climbing and kneeling to perform fieldwork; intermittently sit at desk for long periods of time; lift light to moderately heavy weights; vision to read handwritten and printed materials and a computer screen; hearing and speech to communicate in person and by telephone; manual dexterity to operate small equipment, tools and standard office equipment and supplies, and to manipulate both single sheets of paper and large document holders (binders, manuals, etc.).

Working Conditions

Employees work in an office environment with moderate noise levels, controlled temperature conditions and no direct exposure to hazardous physical substances, and in the field and are occasionally exposed to loud noise levels, cold and hot temperatures, inclement weather conditions, road hazards, substantial heights, vibration, confined workspaces, chemicals, mechanical and/or electrical hazards, and hazardous physical substances and fumes. Employees may interact with upset staff and/or public and private representatives, and contractors in interpreting and enforcing departmental policies and procedures. The incumbent may be required to work evenings, weekends and holidays, and participate in after-hours on-call assignments.

GENERAL

The City reserves the right to revise or change classification duties and responsibilities as the need arises. This description does not constitute a written or implied contract of employment.

I have read and understand the contents of this job description, and I have received a copy of this job description for my records.

Print Name: _____

Signature: _____

Date: _____

Adopted:

Revised:



**City of Grass Valley
City Council
Agenda Action Sheet**

Title: Purchase of a Pierce Manufacturing 107' Ascendant Aerial Ladder Truck

CEQA: Not a Project

Recommendation: That 1) Council direct the Fire Chief to enter into an agreement with Pierce Manufacturing for one 107' Ascendant Aerial Ladder Truck, subject to legal review; 2) Direct the Finance Director to make necessary budget adjustments in the 2025/2026 Fiscal Year Budget.

Prepared by: Mark Buttron- Fire Chief

Council Meeting Date: 04/08/2025

Date Prepared: 04/01/2025

Agenda: Consent

Background Information:

Grass Valley operates the only Ladder Truck in Western Nevada County servicing all fire agencies and communities with its specialized capabilities. A ladder truck differs from a fire engine most notably by the 100 ft ladder on top of the vehicle essential for accessing multi story occupancies for fire and rescue emergencies, providing elevated water streams, and providing tools and equipment for complex incidents as seen at the Everhart Fire in 2024. Ladder Trucks generally have a 20 year service history with some used in a reserve status once being removed from front line service. In 2010 the city, through a series of grants, a bequest, and impact fees, purchased a ladder truck due to the limited capability of the previous ladder truck and its excessive maintenance history. This new truck was manufactured in 2009 as a demonstration model that toured the Country prior to our purchase. The truck has serviced the City well although its operational window and maintenance issues have shown the need for increased performance now available through technology and manufacturing advancements.

In 2023 staff request approval to enter into a contract with Fire Apparatus Solutions, the KME authorized dealer for California, for one new ladder truck in the amount of \$2,151,138.36. At time of request current build times for fire apparatus, including a new truck, were estimated at a minimum of 3 years for delivery. Additionally, entering into that contract saved the city a known cost increase of \$106,897 on December 1st as well annual increases over the course of the agreement. The new ladder truck, assuming a 3 year build, would be delivered when the current truck is 16 years in service and 17 years on the road.

The City has been presented with a unique opportunity to acquire a fire apparatus through Pierce Manufacturing's Dealer Allocated Stock Slot (DAS) program. Since the signing of our previous contract with KME, this opportunity provides the potential to enhance operational efficiency and realize cost savings while meeting our agency's specific needs.

Key Advantages of the Pierce DAS Program:

1. **Reduced Delivery Time:** The proposed Pierce 107' Ascendant Aerial Ladder Truck has an estimated build time of 11 to 13 months from the contract date, significantly shorter than the delivery timeline for the contracted KME vehicle.
2. **Cost Savings:** The truck is priced at \$2,025,467.65, representing a savings of \$125,607.71 compared to the current KME contract.
3. **Enhanced Features:** The DAS truck is equipped with all-wheel steering, providing superior maneuverability and agility with an improved turning radius—an invaluable feature for urban and complex emergency operations.
4. **Simplified Configuration:** While the DAS program provides a stock vehicle with limited customization options, staff has reviewed the specifications and confirmed that the vehicle meets the operational needs of the City.

Staff seeks approval to:

- Enter into a contract with Pierce Manufacturing for the 107' Ascendant Aerial Ladder Truck under the DAS program.
- Collaborate with the City Attorney to seek relief from the existing KME contract prior to signing with Pierce.

This program operates on a first-come, first-served basis, and the contract must be finalized by April 30, 2025, to secure the opportunity.

We believe this acquisition will enhance the Fire Department's response capabilities while achieving fiscal efficiency. Your approval of this request is respectfully recommended.

Financial Summary:

- **Pierce DAS Program Cost:** \$2,025,467.65
- **Current KME Contract Cost:** \$2,151,138.36
- **Savings:** \$125,607.71

Upon arrival of the new truck, the old truck will be sold with proceeds returned to fund balance.

Council Goals/Objectives: Exceptional Public Safety consistent with the City of Grass Valley Strategic Plan

Fiscal Impact: The Ladder Truck purchase will be funded with Measure E funding which has been forecasted for expenditure / appropriation in FY 2025-26; and available fund balances expected to accrue over the next three years.

Funds Available: Yes- Future year funding

Account #: 200-203-52050

Reviewed by:

Attachments: Pierce Proposal



GOLDEN STATE

FIRE APPARATUS

PREPARED ESPECIALLY FOR:

CITY OF GRASS VALLEY

**One (1) Pierce Manufacturing, Inc.
107' Enforcer Ascendant Quint Aerial**



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1 PRODUCT PROPOSAL

OPTION A

100% PRE-PAYMENT

This will be the price of the Product(s) contingent upon the Customer paying the Grand Total Purchase Price to GSFA within thirty (30) calendar days of the Executed Date pursuant to the Payment Terms

IF YOU ELECT THIS OPTION,
IT RESULTS IN A SAVINGS OF
(\$114,495.35) OFF
OF THE GRAND TOTAL OF OPTION B

Please note this discount is also available contingent upon a Third Party (Leasing Company) paying 100% of the Grand Total Purchase Price on behalf of the Customer to GSFA within thirty (30) calendar days of the Executed Date pursuant to the Payment Terms

PRODUCT PROPOSAL FOR:

Grass Valley Fire Department

125 E. Main Street
Grass Valley, CA 95945

Sales Consultant

Brad Hansen
brad@goldenstatefire.com
Mobile: (916) 869-6072

SUBMITTED DATE	EXPIRATION DATE	GSFA PROPOSAL #	MANUFACTURER BID #	MANUFACTURER	CONSORTIUM
03/25/2025	05/23/2025	10325-25A	977	Pierce Manufacturing, Inc.	Sourcewell #113021-OKC-1, ID #236, Member #98084

Golden State Fire Apparatus, Inc. (“GSFA”) is pleased to provide this proposal for the fire apparatus(es) and equipment identified below (the “Product”) to CITY OF GRASS VALLEY (“Customer”) for consideration. This proposal (this “Product Proposal”) includes the following exhibits attached hereto: the Standard Terms and Conditions attached as Exhibit A (the “Terms and Conditions”); the Product Specifications attached as Exhibit B (the “Specifications”); the Product Warranties attached as Exhibit C; and the Dealer Supplied Products and/or Services attached as Exhibit D (the “Dealer Supplied Products/Services List”) (all of the foregoing, collectively, the “Agreement”). Through its signature below or other Acceptance (as defined on page 2), Customer acknowledges having received and read, and agrees to be bound by, the Agreement. The Agreement shall be effective as of the latest date appearing in the signature blocks below (the “Executed Date”).

ITEM	PRODUCT DESCRIPTION	UNIT PRICE
A	One (1) Pierce Manufacturing, Inc. 107’ Enforcer Ascendant Quint Aerial	1,860,351.00
B	<i>Discount for 100% Payment at Time of Order (the “Prepayment Discount”)</i>	<i>(108,849.00)</i>
C	SUBTOTAL	1,751,502.00
D	8.875% State Sales Tax	155,445.80
E	California Tire Fee	10.50
F	100% Payment & Performance Bond	4,014.00
G	GRAND TOTAL PURCHASE PRICE	1,910,972.30

PAYMENT TERMS – Customer shall pay the total purchase price set forth directly above (the “Grand Total Purchase Price”) to GSFA within thirty (30) calendar days of the Executed Date. If payment of the Grand Total Purchase Price is late, a late fee as specified in section 6 of the Terms and Conditions may be applied, and the Prepayment Discount may be adjusted, and the Grand Total Purchase Price increased in accordance with section 2.c of the Terms and Conditions. Customer shall pay any balance due as a result of Change Orders as described in the Terms and Conditions.

MANUFACTURER – Customer acknowledges that GSFA is not an agent of the Product manufacturer identified above (“Manufacturer”) and is not capable of binding Manufacturer. Within five (5) business days of the Executed Date, GSFA shall submit an order form to the Manufacturer for the Product. GSFA’s further performance under the Agreement is contingent upon Manufacturer’s acceptance of such order form at the price and on the terms GSFA believed to be available when submitting this Product Proposal to Customer. If Manufacturer rejects such order as submitted or fails to respond to GSFA within a reasonable

amount of time, GSFA shall notify Customer in writing, and unless GSFA and Customer otherwise agree in writing, the Agreement shall then terminate and have no further force or effect.

PRODUCT COMPLETION – The Product shall be ready for final inspection by Customer at the manufacturing facility within approximately **11 to 13 MONTHS** after the Executed Date. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PREDELIVERY SERVICE – If applicable, after transportation from the manufacturing facility and prior to final delivery or pick up, the Product shall receive those additional Products and/or services identified on the Dealer Supplied Products/Services List. It is estimated that such a service will add approximately **0.5 to 1 MONTH(S)** to the above Product completion estimate. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PROPOSAL EXPIRATION – This Product Proposal supersedes any previous proposal(s) presented to Customer by GSFA and its employees and may be accepted by Customer on or before the Expiration Date identified above. Unless accepted by the Expiration Date, GSFA reserves the right to withdraw this Product Proposal or to alter its terms (including by providing updated Product pricing) prior to an order being accepted.

PURCHASE ORDER – Any PO shall be made out to: *Golden State Fire Apparatus, Inc. – 7400 Reese Road – Sacramento, CA 95828.*

ACCEPTANCE – ACCEPTANCE OF THIS PROPOSAL CREATES AN ENFORCEABLE BINDING AGREEMENT BETWEEN GSFA AND CUSTOMER. “ACCEPTANCE” MEANS THAT THE CUSTOMER DELIVERS TO GSFA: (A) A SIGNED COPY OF THIS PRODUCT PROPOSAL, OR (B) A SIGNED COPY OF A PURCHASE ORDER INCORPORATING THE AGREEMENT IN ITS ENTIRETY. ANY ADDITIONAL OR DIFFERENT TERMS, WHETHER CONTAINED IN CUSTOMER’S FORMS OR OTHERWISE PRESENTED BY CUSTOMER AT ANY TIME, ARE HEREBY REJECTED AND OF NO EFFECT UNLESS APPROVED IN WRITING SIGNED BY GSFA.

COUNTERPARTS - This Product Proposal may be executed in multiple counterparts, each of which shall be deemed an original (including copies sent to a party by electronic transmission) as against the party signing such counterpart, but which together shall constitute one and the same instrument. A signed copy of this Product Proposal delivered by facsimile, email or other means of electronic transmission will be deemed to have the same legal effect as delivery of an original signed copy of this Product Proposal. If this Product Proposal is returned to GSFA with the signature of Customer’s authorized representative but without an attestation or co-signers signature, then absent Customer’s written notice to the contrary, GSFA shall be entitled to rely on such single signature as sufficient evidence of the signatory’s authority to execute the Agreement and bind Customer thereby.

INTENDING TO CREATE A BINDING AGREEMENT, Customer and GSFA have each caused this Product Proposal dated 03/25/2025, GSFA Proposal Number 10325-25A to be executed by their duly authorized representatives effective as of the Executed Date.

ACCEPTED AND AGREED TO BY CUSTOMER

ACCEPTED AND AGREED TO BY GSFA

Signature of Authorized Customer Representative

Signature of Authorized GSFA Representative

Print Name

Print Name

Title

Title

Date

Date

OPTION B

PAYMENT AT TIME OF DELIVERY OR PICKUP

This will be the price of the Product(s) contingent upon the Customer paying the Grand Total Purchase Price to GSFA at time of delivery or pickup pursuant to the Payment Terms

PRODUCT PROPOSAL FOR:

Grass Valley Fire Department

125 E. Main Street
Grass Valley, CA 95945

Sales Consultant

Brad Hansen
brad@goldenstatefire.com
Mobile: (916) 869-6072

SUBMITTED DATE	EXPIRATION DATE	GSFA PROPOSAL #	MANUFACTURER BID #	MANUFACTURER	CONSORTIUM
03/25/2025	05/23/2025	10325-25B	977	Pierce Manufacturing, Inc.	Sourcewell #113021-OKC-1, ID #236, Member #98084

Golden State Fire Apparatus, Inc. (“GSFA”) is pleased to provide this proposal for the fire apparatus(es) and equipment identified below (the “Product”) to CITY OF GRASS VALLEY (“Customer”) for consideration. This proposal (this “Product Proposal”) includes the following exhibits attached hereto: the Standard Terms and Conditions attached as Exhibit A (the “Terms and Conditions”); the Product Specifications attached as Exhibit B (the “Specifications”); the Product Warranties attached as Exhibit C; and the Dealer Supplied Products and/or Services attached as Exhibit D (the “Dealer Supplied Products/Services List”) (all of the foregoing, collectively, the “Agreement”). Through its signature below or other Acceptance (as defined on page 2), Customer acknowledges having received and read, and agrees to be bound by, the Agreement. The Agreement shall be effective as of the latest date appearing in the signature blocks below (the “Executed Date”).

ITEM	PRODUCT DESCRIPTION	UNIT PRICE
A	One (1) Pierce Manufacturing, Inc. 107’ Enforcer Ascendant Quint Aerial	1,860,351.00
B	8.875% State Sales Tax	165,106.15
C	California Tire Fee	10.50
D	GRAND TOTAL PURCHASE PRICE	2,025,467.65

PAYMENT TERMS – Customer shall pay the total purchase price set forth directly above (the “Grand Total Purchase Price”) to GSFA no later than the time of GSFA’s delivery of the applicable Product to Customer’s address listed above (or Customer’s pick up of such Product at GSFA’s facilities, if approved by GSFA). GSFA shall have no obligation to deliver, or permit pick up of the Product if the Customer does not have full payment ready when the Product is complete and ready to deliver or pick up, as applicable. Customer shall pay any balance due as a result of Change Orders as described in the Terms and Conditions.

MANUFACTURER – Customer acknowledges that GSFA is not an agent of the Product manufacturer identified above (“Manufacturer”) and is not capable of binding Manufacturer. Within five (5) business days of the Executed Date, GSFA shall submit an order form to the Manufacturer for the Product. GSFA’s further performance under the Agreement is contingent upon Manufacturer’s acceptance of such order form at the price and on the terms GSFA believed to be available when submitting this Product Proposal to Customer. If Manufacturer rejects such order as submitted or fails to respond to GSFA within a reasonable amount of time, GSFA shall notify Customer in writing, and unless GSFA and Customer otherwise agree in writing, the Agreement shall then terminate and have no further force or effect.

PRODUCT COMPLETION – The Product shall be ready for final inspection by Customer at the manufacturing facility within approximately **11 to 13 MONTHS** after the Executed Date. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PREDELIVERY SERVICE – If applicable, after transportation from the manufacturing facility and prior to final delivery or pick up, the Product shall receive those additional Products and/or services identified on the Dealer Supplied Products/Services List. It is estimated that such a service will add approximately **0.5 to 1 MONTH(S)** to the above Product completion estimate. The foregoing estimate is provided as a good faith approximation as of the date of submission of this Product Proposal and is subject to the Terms and Conditions.

PROPOSAL EXPIRATION – This Product Proposal supersedes any previous proposal(s) presented to Customer by GSFA and its employees and may be accepted by Customer on or before the Expiration Date identified above. Unless accepted by the Expiration Date, GSFA reserves the right to withdraw this Product Proposal or to alter its terms (including by providing updated Product pricing) prior to an order being accepted.

PURCHASE ORDER – Any PO shall be made out to: *Golden State Fire Apparatus, Inc. – 7400 Reese Road – Sacramento, CA 95828.*

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COUNTERPARTS - This Product Proposal may be executed in multiple counterparts, each of which shall be deemed an original (including copies sent to a party by electronic transmission) as against the party signing such counterpart, but which together shall constitute one and the same instrument. A signed copy of this Product Proposal delivered by facsimile, email or other means of electronic transmission will be deemed to have the same legal effect as delivery of an original signed copy of this Product Proposal. If this Product Proposal is returned to GSFA with the signature of Customer’s authorized representative but without an attestation or co-signers signature, then absent Customer’s written notice to the contrary, GSFA shall be entitled to rely on such single signature as sufficient evidence of the signatory’s authority to execute the Agreement and bind Customer thereby.

INTENDING TO CREATE A BINDING AGREEMENT, Customer and GSFA have each caused this Product Proposal dated 03/25/2025, GSFA Proposal Number 10325-25B to be executed by their duly authorized representatives effective as of the Executed Date.

ACCEPTED AND AGREED TO BY CUSTOMER

ACCEPTED AND AGREED TO BY GSFA

Signature of Authorized Customer Representative

Signature of Authorized GSFA Representative

Print Name

Print Name

Title

Title

Date

Date

2 STANDARD TERMS AND CONDITIONS

Exhibit "A"

STANDARD TERMS AND CONDITIONS

1. Definitions.

- a. **“Agreement”** has the meaning given in the Product Proposal.
- b. **“Customer”** means the customer identified in the Product Proposal.
- c. **“Dealer Preparation,”** if applicable, means additional product(s) and/or services added by GSFA after Manufacturer’s completion of the Product and prior to delivery, in accordance with the Dealer Supplied Products/Services List.
- d. **“Dealer Supplied Products/Services List”** means the Dealer Supplied Products and/or Services List attached to the Product Proposal as Exhibit D, which reflects all Dealer Preparation under the Agreement absent a valid Change Order(s).
- e. **“Grand Total Purchase Price”** means the total purchase price for the Product identified in the Product Proposal (subject to any adjustments required or permitted by these Terms and Conditions, including by the execution of a valid Change Order(s)).
- f. **“GSFA”** means Golden State Fire Apparatus, Inc., a California corporation.
- g. **“Manufacturer”** means the person or persons, company, firm, corporation, partnership, or other organization identified in the Product Proposal as responsible for manufacturing the Product.
- h. **“Party”** or **“Parties”** means GSFA and/or Customer, as applicable.
- i. **“Prepayment Discount”** means a discount to the purchase price for the Product granted to Customer in connection with Customer’s advance payment of the Grand Total Purchase Price (or portion thereof, as specified in the Product Proposal).
- j. **“Product”** means the fire apparatus(es) and any associated equipment listed in the Product Proposal and further described in the Specifications.
- k. **“Product Completion”** means the fire apparatus(es) in the Product Proposal and further described in the Specifications being ready for final inspection by Customer at the manufacturing facility.
- l. **“Product Proposal”** means the GSFA proposal executed by Customer to which these Terms and Conditions are attached.
- m. **“Product Warranties”** means the Manufacturer warranties for the Product attached to the Product Proposal as Exhibit C.
- n. **“Specifications”** means the specifications for the Product attached to the Product Proposal as Exhibit B.
- o. **“Terms and Conditions”** means these Standard Terms and Conditions, which are attached to the Product Proposal as Exhibit A.

2. Purchase and Payment.

a. Purchase. Customer agrees to purchase the Product at the Grand Total Purchase Price (as such amount may be adjusted in accordance with these Terms and Conditions), pursuant to the payment terms set forth in the Product Proposal. The Grand Total Purchase Price is payable in U.S. dollars.

b. Contingency Reserve Fund. The Grand Total Purchase Price may include an amount to be set aside for the purpose of funding any future costs or financial obligations incurred by Customer under the Product Proposal or any valid Change Order(s) (the **“Contingency Reserve Fund”**). If applicable, the amount of any required Contingency Reserve Fund will be set forth in either the Product Proposal or Exhibit D. The Contingency Reserve Fund may be withdrawn against by Customer or GSFA for the purpose of satisfying Customer’s payment obligations under the initial Product Proposal or any valid Change Order(s) (including, without limitation, a Change Order submitted by GSFA pursuant to Section 8.b). If a Contingency Reserve Fund is required under the Agreement, the amount of such fund is not intended as an estimate of the actual additional costs of contingencies, Change Orders, unforeseen items or other required work that may be incurred under the Agreement after submission of the Product Proposal to Customer, which amounts Customer acknowledges may exceed the Contingency Reserve Fund amount. The balance of any Contingency Reserve Fund will be credited against Customer’s payment obligations, or otherwise returned to

Customer within thirty (30) calendar days of delivery of all Products under the Agreement (provided that Customer has paid all amounts owed under the Agreement as of such date).

c. Prepayment Discount. If GSFA has granted Customer a Prepayment Discount, Customer must provide each associated prepayment (each, a “**Prepayment**”) within the time frame specified in the Product Proposal in order to receive such discount. Customer’s failure to timely make such Prepayment may result in: (i) GSFA’s termination of the Agreement; and/or (ii) Customer’s loss of the Prepayment Discount for the portion of the Grand Total Purchase Price represented by such outstanding Prepayment and the application of a late fee as set forth in Section 6, in each case in GSFA’s sole discretion.

d. State Sales Tax. Customer shall be responsible for the cost of state sales tax associated with, or attributable to, the Product. The taxes stated in the Product Proposal are subject to adjustment for the applicable state sales tax rate in effect at the time of delivery. Therefore, the sales tax set forth on the Product Proposal is only an estimate of such taxes and will be increased or decreased at the time of delivery if a change in the applicable sales tax rate has occurred, in which case Customer shall pay GSFA (or be refunded by GSFA) the difference in the applicable sales tax.

3. Product Completion Date. Within thirty (30) calendar days of the date on which the last required signatory executes the Product Proposal (such date, the “**Executed Date**”), GSFA shall submit to Customer a tentative Product completion date (which may differ from the Product completion estimate contained in the Product Proposal). Due to global supply chain constraints, any Product completion date contained herein, or in the Product Proposal, or otherwise provided to Customer, is a good faith estimate only as of the date provided to Customer, and merely an approximation based on current information available to GSFA and Manufacturer. Customer shall not be entitled to rely on any such estimate, and GSFA shall have no liability to Customer for a failure by GSFA or Manufacturer to meet any such estimate. All Product completion estimates are subject to modification and, if applicable, GSFA will provide updates to such estimates to Customer when available.

4. Stock / Demo Units. Notwithstanding any other provision contained in the Agreement (including Section 12 hereof concerning warranties), any Products constituting stock/demo unit(s) are sold to Customer on an as-is, first-come and first served-basis and GSFA makes no further representation or warranty to any customer with respect to such unit(s). Regardless of the terms of the Product Proposal, GSFA shall only be obligated to sell such stock/demo unit(s) to the first customer to enter into a purchase agreement with GSFA identifying such unit(s), and after the execution by GSFA of such agreement any subsequent purchase agreement (including the Agreement, as applicable) shall have no further force or effect with respect to such unit(s).

5. Multiple Unit Purchase. If the Grand Total Purchase Price includes pricing for multiple Products, the Product price stated in the Product Proposal shall only be valid if the quantity of Products being proposed are purchased at the same time, pursuant to the same Agreement. GSFA shall have no obligation to offer the same price for any Product if purchased by Customer pursuant to a later purchase agreement.

6. Late Fee; Storage Fee. A late fee equal to 0.033% of the outstanding portion of the Grand Total Purchase Price will be charged per calendar day for overdue payments beginning ten (10) calendar days after the payment is due and continuing for the first thirty (30) calendar days thereafter. After such thirty (30) calendar day period, the late fee shall increase to 0.044% per calendar day until payment of the outstanding portion of the Grand Total Purchase Price is received. If Customer is unable to satisfy the delivery requirements hereunder or is unwilling to take delivery of the Product, then GSFA shall be entitled to a storage charge running from the earlier of: (i) the date of delivery agreed to between GSFA and Customer (provided GSFA is willing and able to deliver the Product on such date), or (ii) twenty-one (21) calendar days after GSFA notifies Customer that the Product is available for delivery. The storage charge is equal to: (i) \$175.00 per calendar day per apparatus stored, or (ii) the actual charges incurred by GSFA with a third party for storage of the Product, whichever is greater. Such storage charge shall continue until the actual time of delivery and Customer’s possession of the Product, and any such storage by GSFA or such third party shall be at the sole risk of Customer.

7. Delivery; Inspection and Acceptance.

a. Delivery. Subject to Section 5 hereof, the Product is scheduled to be delivered to the location and within the time period specified in the Product Proposal. Such delivery date is an estimate, and GSFA is, notwithstanding this Section 7.a, not bound to such date unless it otherwise agrees in a separate writing to complete delivery by a date certain. For the avoidance of doubt, GSFA is not responsible for delivery delays caused by or because of actions, omissions or conduct of Customer, the Manufacturer, or their respective employees, affiliates, suppliers, contractors, and carriers. Risk of loss for the Product shall pass to Customer at the point and time of delivery (which shall include an attempted delivery by GSFA which cannot be completed due to any act of Customer). However, title to the Product shall only pass to Customer upon delivery if Customer has then fully paid GSFA all amounts due hereunder (including additional amounts due under any valid Change Order). Absent GSFA's separate written agreement, which it may or may not provide in its sole and absolute discretion, delivery of the Product will not occur before Customer has fully paid all amounts due under the Agreement and provided proof of insurance reasonably satisfactory to GSFA. If GSFA permits Customer to take possession of the Product, Customer may not mount equipment, conduct training, or place the Product into service until all amounts due under the Agreement have been paid. If Customer has ordered multiple Products, GSFA reserves the right to deliver such Products in installments and to separately invoice Customer for such Products.

b. Inspection and Acceptance. Upon delivery, Customer shall have ten (10) calendar days within which to inspect the Product for substantial conformance to the Specifications, and in the event of substantial non-conformance to the Specifications to furnish GSFA with written notice sufficient to permit GSFA to evaluate such non-conformance ("**Notice of Nonconformance to Specifications**"). Contingent upon part availability and Customer's cooperation, any Product not in substantial conformance to material Specifications shall be remedied by GSFA (by repair or replacement, at GSFA's election) within thirty (30) calendar days from GSFA's receipt of the Notice of Nonconformance to Specifications. In the event GSFA does not receive a Notice of Nonconformance to Specifications within ten (10) calendar days of delivery, the Product will be deemed to be in conformance with Specifications and accepted by Customer.

8. Changes to Agreement Terms.

a. Change Orders. The Customer may request that GSFA incorporate a change to the Product or the Specifications for the Product, or GSFA may submit changes to the Agreement required or permitted to be made by GSFA (pursuant to Section 8.b or otherwise) by delivering a written Change Order to the other party hereto, which shall include a description of the proposed change sufficient to permit the receiving party to evaluate such change (either, a "**Change Order**"). For any Change Order submitted by Customer, GSFA will provide Customer a written response (a "**Response**") stating (i) whether GSFA will accommodate such Change Order (which GSFA may decide in its sole and absolute discretion); and (ii) the terms of the modification to the order, including any increase or decrease in the Grand Total Purchase Price resulting from such Change Order, a date on which any increase in the Grand Total Purchase Price must be paid, and an estimate of any effect on production scheduling or delivery resulting from such Change Order. Customer shall have seven (7) calendar days after receipt of the Response to notify GSFA as to whether Customer desires to make the changes GSFA has approved in the Response. In the event Customer countersigns GSFA's Response, Customer shall pay the increase (or be refunded the decrease) in the Grand Total Purchase Price by the date specified in the Response. GSFA may also send Customer a Change Order to account for any changes to the Agreement required or permitted to be made by GSFA (including those changes required pursuant to Section 8.b hereof), and such Change Order shall be effective upon delivery to Customer unless Customer elects to terminate the applicable Product order under the Agreement in accordance with Section 9.

b. Additional Changes.

i. Component Price Volatility; Increases Imposed by Manufacturer. GSFA shall not be responsible for (i) any unforeseen price increase or surcharge enacted by suppliers of major components of the Product (including but not limited to commercial chassis, engine, transmission, and fire pump); or (ii) price increases imposed on GSFA by Manufacturer pursuant to Manufacturer's terms and conditions for sale of the Product (a "**Manufacturer**

Price Increase”), after Customer becomes bound by the Agreement. Customer shall be responsible for all amounts arising from any price increases for major components of the Product (including all associated taxes and fees thereon) for the Product or any Manufacturer Price Increases occurring after the execution of the Agreement which increases the cost of the Product to GSFA, and such amounts will be documented on a Change Order adjusting the Grand Total Purchase Price accordingly. Customer shall pay any such price increase prior to Product delivery. A Manufacturer Price Increase may include, but shall not be limited to, an increase in Product price resulting from an increase in the Producer Price Index of Components for Manufacturing (see www.bls.gov Series ID: WPUID6112) in excess of a compounded annual growth rate of five percent (5%), as measured between the month Manufacturer accepts the applicable Product order and the month that is fourteen (14) months prior to the then-current estimated Product completion date (the foregoing, a **“PPI-Based Price Increase”**). If, upon Customer’s receipt of a Change Order reflecting a PPI-Based Price Increase, Customer elects to terminate the applicable Product Order in accordance with Section 8.b.iii rather than pay such increase, then in lieu of the cancellation fees described in Section 9.a hereof GSFA shall be entitled to recover and Customer shall pay GSFA’s actual non-reimbursable costs incurred in connection with the Product order through the date of Customer’s termination of such Product order.

ii. New Legal Standards. In the event the Product design, materials or specifications require an alteration arising from new regulations issued by any governmental entity or trade association, including, but not limited to, the NFPA, DOT, and EPA, and such alteration increases the cost of the Product to GSFA, Customer shall be responsible for changes to the Grand Total Purchase Price arising from such alteration. GSFA shall promptly notify Customer when it becomes aware of any potential or required change in regulations occurring prior to delivery that would impact the Product purchased.

iii. Change Orders. Customer shall execute any Change Order submitted by GSFA documenting any of the changes required or permitted by Sections 8.b.i and 8.b.ii above (which shall, to the extent practicable, itemize any increases in the Grant Total Purchase Price and specify a commercially reasonable date by which Customer must pay such increase), unless Customer instead elects to terminate the applicable Product order under the Agreement within fifteen (15) calendar days of Customer’s receipt of such Change Order and in accordance with Section 9. Absent such a termination, failure to execute a Change Order does not alter Customer’s obligations under this Section 8.b.

c. Changes in Commercial Specifications. Specifications for all components of the Product manufactured by companies other than the Manufacturer are subject to change without notice. Specifications for such components will be as available at the time of manufacture of the Product. GSFA shall not be liable for any deviations in such specifications arising from a substitution of components or changes in the design of any component by their original manufacturer.

9. Termination.

a. By Customer. Customer may terminate a Product order identified in the Product Proposal or a Change Order by providing written notice to GSFA in accordance with Section 16 hereof. If Customer elects to terminate a Product order, Customer shall pay GSFA a cancellation fee as follows: (a) after the Product order is accepted and entered by GSFA, 10% of the portion of the Grand Total Purchase Price applicable to such Product (including all associated taxes, fees and costs) (such amount, the **“Product Purchase Price”**); (b) after completion of the pre-construction phase of the order process, 20% of the Product Purchase Price; and (c) after the requisition of any materials or commencement of any manufacturing or assembly of the Product by either GSFA or Manufacturer but before substantial completion of such Product, 50% of the Product Purchase Price. Customer shall not be permitted to terminate a Product order after substantial completion of manufacturing and assembly of such Product (excluding any Dealer Preparation or other pre-delivery services or untypical Product customization, if applicable). Notwithstanding the foregoing, if the applicable tier of cancellation fee is not sufficient to cover all actual costs and fees incurred by GSFA with Manufacturer in connection with Customer’s termination of the Product order (**“Manufacturer Termination Fees”**), then in addition to such cancellation fee Customer shall pay the balance of all Manufacturer Termination Fees. If Customer received a Prepayment Discount, such discount shall not be considered for the purpose of calculating the above cancellation fee. The tier of cancellation fee applicable to any cancellation,

as well as the determination of whether a Product has reached substantial completion, shall be in the sole and absolute discretion of GSFA. Customer may request a fee waiver, and GSFA, in its sole discretion, may agree to waive and/or adjust such fee. GSFA will return the balance of the Grand Total Purchase Price or Product Purchase Price, as applicable, within thirty (30) calendar days of the effective date of the cancellation of the Product order or termination of the Agreement.

Customer may terminate the Agreement for an Event of Default by GSFA after providing GSFA with written notice in accordance with Section 16 (which notice shall describe with reasonably particularity the Event of Default justifying such termination) if such Event of Default remains uncured (if capable of cure) thirty (30) days following GSFA's receipt of such notice; provided, however, that the foregoing cure period shall continue if and for so long as GSFA has commenced and is continuing to undertake commercially reasonable efforts to cure such Event of Default as promptly as reasonably practicable.

b. By GSFA. GSFA may terminate the Agreement for an Event of Default by Customer after providing Customer with written notice in accordance with Section 16 (which notice shall describe with reasonably particularity the Event of Default justifying such termination) if such Event of Default remains uncured (if capable of cure) thirty (30) days following Customer's receipt of such notice; provided, however, that the foregoing cure period shall continue if and for so long as Customer has commenced and is continuing to undertake commercially reasonable efforts to cure such Event of Default as promptly as reasonably practicable. Notwithstanding the foregoing, GSFA may terminate the Agreement effective immediately upon written notice to Customer for Customer's failure to pay any amount owed under the Agreement when due.

Notwithstanding any other provision of this Agreement, if Customer terminates a Product order in accordance with Section 9.a above, GSFA may elect to instead terminate the Agreement upon notice to Customer in accordance with Section 16 hereof. If GSFA terminates the Agreement in accordance with this Section 9.b, Customer shall pay the applicable tier of cancellation fee for all Products pursuant to Section 9.a above as if Customer had elected to terminate each applicable Product order.

c. Based on Discontinuation or Cancellation by Manufacturer. In the event that Manufacturer cancels a Product order (provided that such cancellation is not the result of an act by Customer in violation of the Agreement) or discontinues the manufacture of a Product prior to its completion and delivery: (i) if such Product is the only Product contemplated under the Agreement, then the Agreement shall terminate; or (ii) if additional Products are contemplated under the Agreement, then only the Product order for the applicable cancelled or discontinued Product shall be terminated. Such Agreement termination or Product termination, as applicable, shall be effective upon GSFA's written notice to Customer of such cancellation or discontinuance in accordance with Section 16 hereof. GSFA's only obligation to Customer in such event shall be the return of any Prepayment paid by Customer for the cancelled or discontinued Product. For the avoidance of doubt, the cancellation fees contemplated in Section 9.a hereof shall not apply in the event of a termination pursuant to this Section 9.c.

10. Customer's Obligations. Customer shall provide its timely and best efforts to cooperate with GSFA and Manufacturer during the Product manufacturing process. Reasonable and timely cooperation includes, without limitation, Customer's providing timely information in response to any requests from Manufacturer or GSFA and the participation of Customer's authorized representatives in traveling to Manufacturer's facility for inspections and approval of the Product, including a final approval before the Product leaves Manufacturer's facility.

11. Representations and Warranties. Customer hereby represents and warrants to GSFA as of the Executed Date that the execution of the Agreement and the purchase of the Product(s) and performance of the other obligations of Customer under the Agreement have been approved by Customer in accordance with applicable general laws and, as applicable, Customer's charter, ordinances, purchasing policies, and other governing documents, and executed by the appropriate Customer employees, officials, and/or representatives, and funding for Customer's performance of its obligations under the Agreement has been duly budgeted and appropriated by Customer.

12. Standard Warranty. All applicable Manufacturer warranties are contained in the Product Warranties. Any additional warranties must be expressly approved in a writing signed by GSFA, and Customer acknowledges and agrees that Manufacturer will not be liable for any such additional warranties.

a. Disclaimer. OTHER THAN AS EXPRESSLY SET FORTH IN THE AGREEMENT, GSFA, ITS AFFILIATES, AND THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, SHAREHOLDERS, AGENTS, OR REPRESENTATIVES, DO NOT MAKE ANY EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE PRODUCT (WHETHER RELATING TO THE CONDITION OR QUALITY OF THE PRODUCT, OR OTHERWISE) PROVIDED HEREUNDER OR OTHERWISE REGARDING THE AGREEMENT (INCLUDING, WITHOUT LIMITATION, WITH RESPECT TO ANY APPLICABLE DEALER PREPARATION), WHETHER ORAL OR WRITTEN, EXPRESS, IMPLIED OR STATUTORY. WITHOUT LIMITING THE FOREGOING, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, THE IMPLIED WARRANTY AGAINST INFRINGEMENT, THE IMPLIED WARRANTY OR CONDITION OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE ARE EXPRESSLY EXCLUDED AND DISCLAIMED. STATEMENTS MADE BY SALES CONSULTANTS OR IN PROMOTIONAL MATERIALS DO NOT CONSTITUTE WARRANTIES.

b. Exclusions of Incidental and Consequential Damages. In no event shall GSFA be liable for consequential, incidental, or punitive damages incurred by Customer in connection with any matter arising out of or relating to the Agreement, or the breach thereof, even if GSFA has been advised of the possibility of such damages, and regardless of whether such damages arise out of breach of warranty, the Agreement, indemnity, whether resulting from non-delivery or from GSFA's own negligence, or otherwise, except and solely to the extent such damages arise from the gross negligence or willful misconduct of GSFA.

13. Default. The occurrence of one or more of the following events (each, an "**Event of Default**") shall constitute a default under the Agreement: (a) Customer's failure to pay any amounts due or to perform any of its obligations under the Agreement; (b) GSFA's failure to perform any of its obligations under the Agreement; (c) either Party becoming insolvent or becoming subject to bankruptcy or insolvency proceedings; (d) any representation made by either Party under the Agreement which is false in any material respect; (e) any action by Customer to dissolve, merge, consolidate or transfer a substantial portion of its property to another entity during the term of the Agreement; (f) any other material breach of the terms of the Agreement by a Party; or (g) a default or breach by Customer under any other agreement with GSFA or its affiliates.

14. Indemnification of GSFA. Customer shall indemnify, defend, and hold harmless GSFA, its agents, servants, successors and assigns from and against all losses, damages, injuries, claims, demands and expenses, including attorneys' fees and other legal expenses, of whatever nature ("**Damages**"), to the extent Damages arise out of or in connection with: (i) Customer's breach of the Agreement, or (ii) Customer's use, storage, or operation of the Product following delivery, regardless of where, how, and by whom operated (excluding any negligent operation by GSFA). The indemnification and assumptions of liability and obligation herein provided shall continue in full force and effect notwithstanding the termination of the Agreement, whether by expiration of time, by operation of law or otherwise. This provision is not intended to and shall not constitute the exclusive remedy of the Parties under the Agreement; the Parties may seek indemnity from one another under other legal principles, whether based in equity or law, so long as they do not nullify or cancel the effects of this paragraph.

15. Force Majeure. GSFA shall not be responsible nor deemed to be in default of any provision of the Agreement on account of delays in performance due to causes which are beyond GSFA's or Manufacturer's control and which make GSFA's performance impracticable, including but not limited to wars, insurrections, strikes or labor unrest, riots, fires, storms, floods, other acts of nature, explosions, earthquakes, accidents, any act of federal, state or local government, failure or delays in transportation, inability to obtain necessary labor, supplies or manufacturing facilities, supply chain issues, allocation regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, acts of God or the public enemy or terrorism, failure of transportation, disease, pandemics or epidemics, quarantine restrictions, failure of vendors (due to causes similar to those within the scope of this clause) to perform their agreements or labor troubles causing cessation, slowdown, or interruption of work.

16. Notice. Any notices, requests, consents, claims, demands, waivers and other communications required or permitted to be given hereunder must be given in writing at the address of each Party set forth below, or to such other address as either Party may substitute by written notice to the other in accordance with this Section 16, by one of the following methods: hand delivery; registered, express, or certified mail, return receipt requested, postage prepaid; or nationally recognized private express courier. All such communications will be deemed to have been given: (i) when delivered by hand (with written confirmation of receipt); (ii) on the third (3rd) calendar day after the date mailed, by registered, express or certified mail; or (iii) when delivered by the addressee if sent by a nationally recognized private express courier.

GSFA:

Golden State Fire Apparatus Inc.
7400 Reese Road
Sacramento, CA 95828

CUSTOMER:

To the address listed in the Product Proposal

17. Contradictions. In the event of a conflict between the Agreement and any Change Order, or between Change Orders, the terms of the latest executed Change Order shall control.

18. Manufacturer's Statement of Origin. It is agreed that the manufacturer's statement of origin ("**MSO**") for the Product covered by the Agreement, if applicable, shall be retained and remain in the possession of GSFA per California Department of Vehicles (DMV) directives. Notwithstanding the foregoing, GSFA shall provide Customer with the original MSO if the Customer is self-registering, and Customer shall comply with all good-faith Process of Duty and other DMV requirements applicable to the Product and retain its own MSO.

19. Assignment. The relationship of the Parties established under the Agreement is that of independent contractors and neither Party is a partner, employee, agent, or joint venturer of or with the other. Neither Party may assign its rights and obligations under the Agreement unless it has obtained the prior written approval of the other Party.

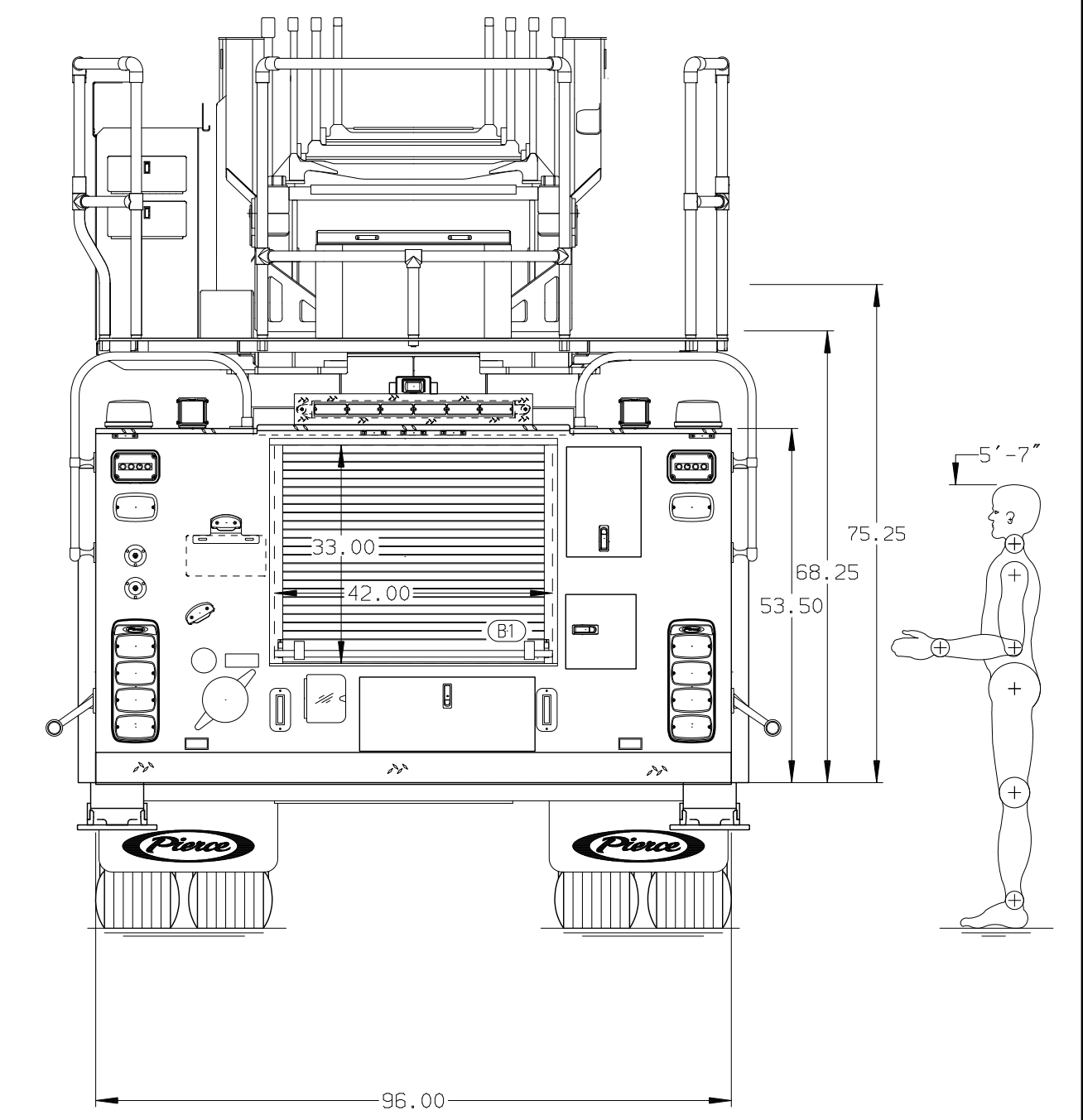
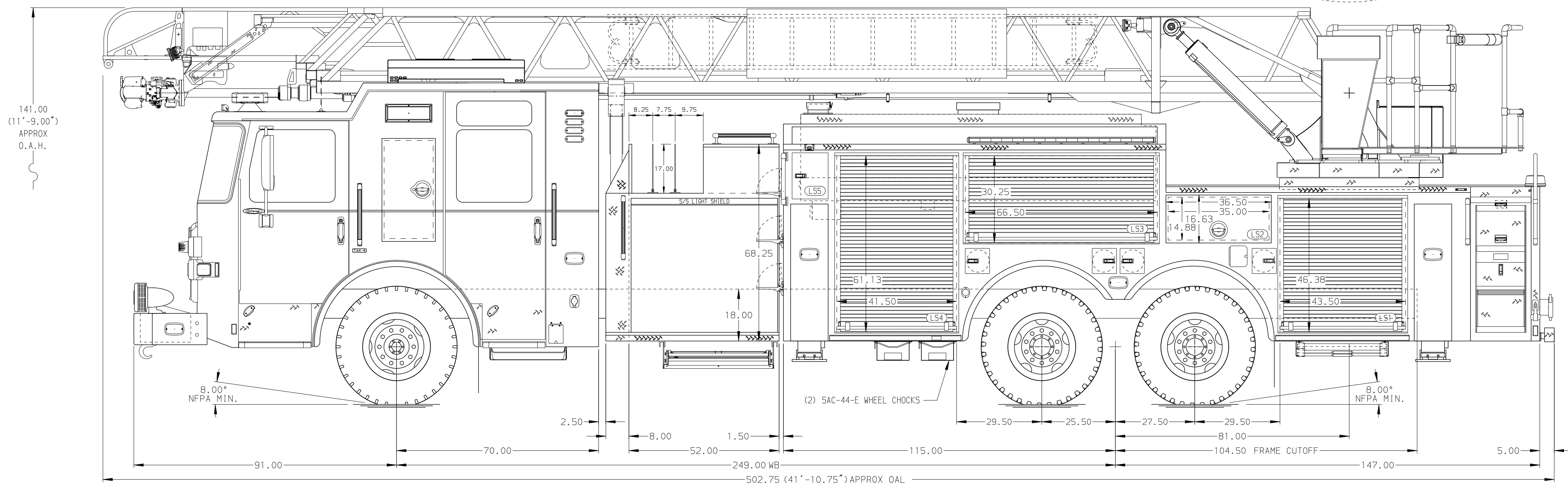
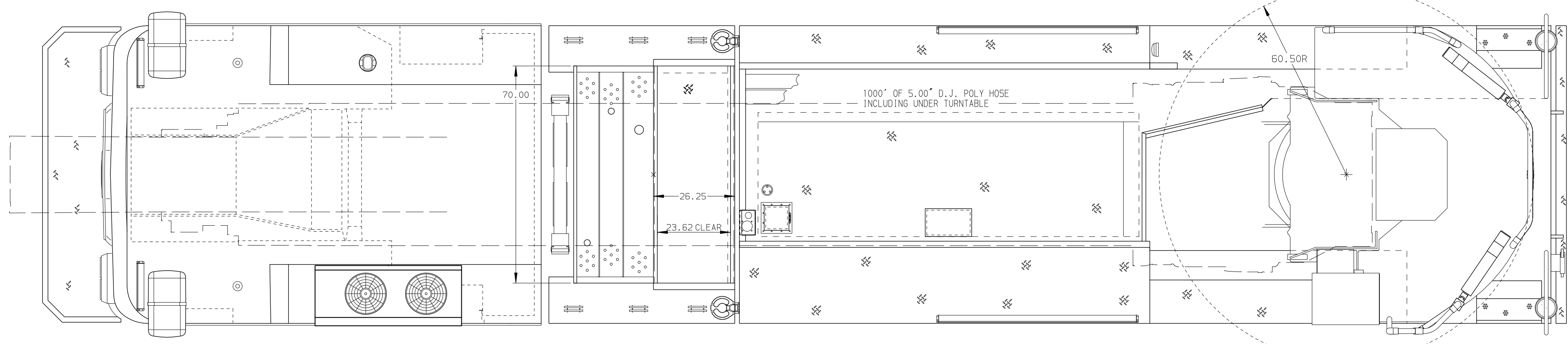
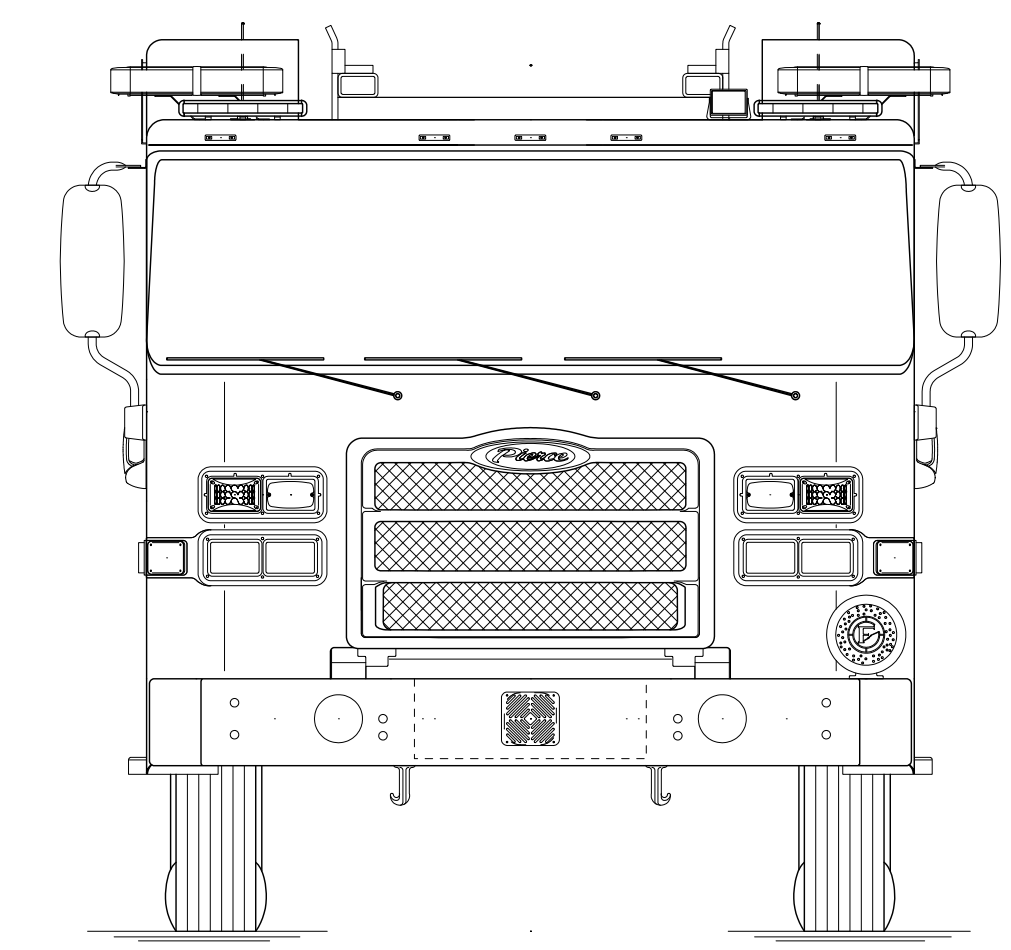
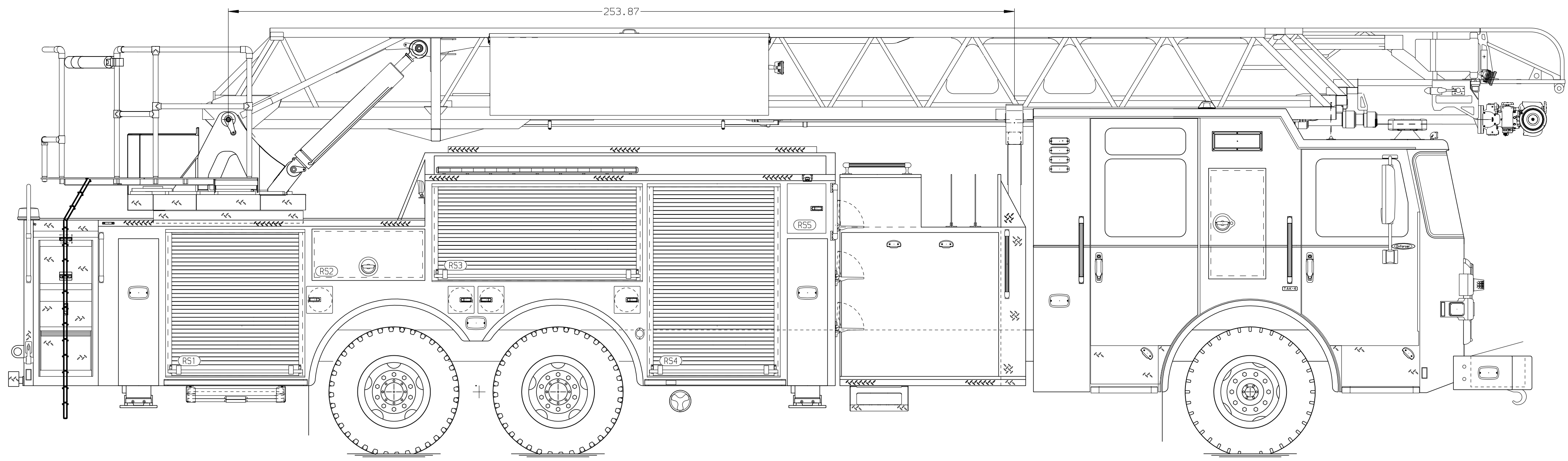
20. Governing Law; Jurisdiction; Disputes. Without regard to any conflict of laws provisions, the Agreement is to be governed by and under the laws of the state of California. Prior to taking any legal action that may and/or can arise out of the Agreement, the Parties shall first attempt mediation with an agreed upon mediator. If the Parties cannot agree upon a mediator within thirty (30) calendar days of the submission of written notice of a dispute in accordance with Section 16 hereof, if any disputed matter remain unresolved within thirty (30) calendar days of the commencement of discussions, or if any party refuses to meet, then either party may submit any remaining disputes concerning and/or claim regarding the Agreement and/or the terms and conditions herein to the Superior Court, County of Sacramento (and the parties expressly consent to exclusive personal jurisdiction and venue before such court).

21. Entire Agreement; Amendments. The Agreement, including the Product Proposal, its exhibits, and all valid Change Orders, is the exclusive agreement between the Parties regarding the subject matter contained herein and therein. No change in, modification of, or revision of the Agreement shall be valid unless in writing and signed by duly authorized representatives of both Parties with authority to sign such amendments to the Agreement.

END OF STANDARD TERMS AND CONDITIONS

3 PRODUCT SPECIFICATIONS

Exhibit "B"



NOTE
 DIMENSIONS SHOWN ARE APPROXIMATE
 AND ARE SUBJECT TO MINOR DEVIATIONS
 AS MAY OCCUR OR BE NECESSARY IN
 CONSTRUCTION.
 MINOR DETAILS NOT SHOWN.

REV	DATE	BY	CH

		JOB NO.	PRELIM
TITLE 107' ASCENDANT AERIAL LADDER AND BODY ASSEMBLY		SCALE	DATE
MAKE PIERCE		DRAWN BY	19DEC24
MODEL ENFORCER		CHECKED BY	-
DWG NO. BID 2726		SHEET SIZE	SHEET NO.
1		D	1



Proposal Details Report

Customer: City of Grass Valley
Representative Hansen, Brad
Requirements Manager:
Description: Enforcer Ascendant 107' Ladder
Chassis: Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL
Body: Aerial, HD Ladder 107' ASL Tandem, Alum Body

Bid Number: 977
Job Number:
Organization: Golden State Fire Apparatus, Inc

OptionCode	Type	Option	ProposalText
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0766640		Boiler Plates, Aerial 107' ASL	
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Golden State Fire Apparatus Inc is pleased to submit a proposal to City of Grass Valley Fire Department for a **Pierce® 107' Heavy Duty Aerial Ladder** per your request for quotation. The following paragraphs will describe in detail the apparatus, construction methods, and equipment proposed. This proposal will indicate size, type, model and make of components parts and equipment, providing proof of compliance with each and every item (except where noted) in the departments advertised specifications.

PIERCE MANUFACTURING was founded in 1913. Since then, we have been building bodies with one philosophy, "BUILD THE FINEST". Our skilled craftsmen take pride in their work, which is reflected, in the final product. We have been building fire apparatus since the early "forties" giving Pierce Manufacturing over 75 years of experience in the fire apparatus market. Pierce Manufacturing has built and put into service more than 62,500 apparatus, including more than 33,900 on Pierce custom chassis designed and built specifically for fire and emergency applications. Our Appleton, Wisconsin facility has over 870,000 total square feet of floor space situated on approximately 105 acres of land. Our Bradenton, Florida facility has 300,000 square feet of floor space situated on approximately 38 acres of land.

Our beliefs in high ethical standards are carried through in all of our commitments and to everyone with whom we do business. Honesty, Integrity, Accountability and Citizenship are global tenets by which we all live and work. Consequently, we neither engage in, nor have we ever been convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market.

Pierce has only one brand of fire apparatus "Pierce", ensuring you are receiving top of the line product that meets your specification.

In accordance with the current edition of applicable NFPA standards, this proposal will specify whether the fire department, manufacturer, or apparatus dealership will provide required loose equipment.

Images and illustrative material in this proposal are as accurate as known at the time of publication, but are subject to change without notice. Images and illustrative material is for reference only, and may include optional equipment and accessories and may not include all standard equipment.

GENERAL DESIGN AND CONSTRUCTION

To control quality, ensure compatibility, and provide a single source for service and warranty, the custom cab, chassis, pump module and body will be entirely designed, assembled/welded and painted in Pierce owned manufacturing facilities. This includes, but not limited to the cab weldment, the pumphouse module assembly, the chassis assembly, the body and the electrical system.

QUALITY AND WORKMANSHIP

Pierce has set the pace for quality and workmanship in the fire apparatus field. Our tradition of building the highest quality units with craftsmen second to none has been the rule right from the beginning and we demonstrate that ongoing commitment by: Ensuring all steel welding follows American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding follows American Welding society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding follows American welding Society B2.1-2000 requirements for structural welding of sheet metal. Our flux core arc welding uses alloy rods, type 7000 and is performed to American Welding Society standards A5.20-E70T1. Furthermore, all employees classified as welders are tested and certified to meet the American Welding Society codes upon hire and every three (3) years thereafter. Pierce also employs an American Welding Society certified welding inspector in plant during working hours to monitor weld quality.

Pierce Manufacturing operates a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International Organization for Standardization (ISO) specify the quality systems that are established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance is included with this proposal. In addition to the Quality Management system, we also employ a Quality Achievement Supplier program to insure the vendors and suppliers that we utilize meet the high standards we demand. That is just part of our overall "Quality at the Source" program at Pierce.

To demonstrate the quality of our products and services, a list of at least five (5) fire departments/municipalities that have purchased vehicles for a second time is provided.

DELIVERY

The apparatus will be delivered under its own power to insure proper break-in of all components while the apparatus is still under warranty. A qualified delivery representative shall deliver the apparatus and remain for a sufficient length of time to instruct personnel in proper operation, care and maintenance of the equipment delivered.

MANUAL AND SERVICE INFORMATION

At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle.

SAFETY VIDEO

At the time of delivery Pierce will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. A link to the video is also available on the Pierce Training website. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, aerial operation, and safety during maintenance.

PERFORMANCE TESTS

A road test will be conducted with the apparatus fully loaded and a continuous run of

ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal or noise. The apparatus when fully loaded will not have less than 25 percent nor more than 50 percent on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle. The apparatus will meet the current edition of applicable NFPA standards acceleration and braking requirements.

Item # 9.

SERVICE AND WARRANTY SUPPORT

Pierce dealership support will be provided by Golden State Emergency Services Inc by operating in conjunction with a Pierce authorized service center. The service center will have factory-trained mechanics on staff versed in Pierce fire apparatus. The service facility will be located within seventy five (75) miles of the fire department.

In addition to the dealership, Pierce has service facilities located in both, Weyauwega, Wisconsin and Bradenton, Florida. Pierce also maintains a dedicated parts facility of over 100,000 square feet in Appleton, Wisconsin. The parts facility stocks in excess of \$5,000,000 in parts dedicated to service and replacement parts. The parts facility employs a staff dedicated solely for the distribution and shipment of service and replacement parts.

Service parts for the apparatus being proposed can be found via Pierceparts.com which, is an interactive online tool that delivers information regarding your specific apparatus as well as the opportunity to register for training classes.

As a Pierce customer you have the ability to view the complete bill of materials for your specific apparatus, including assembly drawings, piece part drawings, and beneficial parts notations. You will also have the ability to search the complete Pierce item master through a parts search function which offers all Pierce SKU's and descriptions offered on all Pierce apparatus. Published component catalogs, which include proprietary systems along with an extensive operators manual library is available for easy reference.

Pierce Manufacturing maintains a dedicated service and warranty staff of over 35 personnel, dedicated to customer support, which also maintains a 24 hour 7 day a week toll free hot line, four (4) on staff EVTs, and offers hands-on repair and maintenance training classes multiple times a year.

LIABILITY

The successful bidder will defend any and all suits and assume all liability for the use of any patented process including any device or article forming a part of the apparatus or any appliance furnished under the contract.

INSURANCE PROVIDED BY BIDDER

Commercial General Liability Insurance

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Each Occurrence:

\$1,000,000

Products/Completed Operations Aggregate:

\$1,000,000

Personal and Advertising Injury:

\$1,000,000

General Aggregate:

\$2,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form and will include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy will include Owner as an additional insured when required by written contract.

Commercial Automobile Liability Insurance

The successful bidder will, during the performance of the contract, keep in force at least the following minimum limits of commercial automobile liability insurance and coverage will be written on a Commercial Automobile liability form:

Each Accident Combined Single Limit:

\$1,000,000

Umbrella/Excess Liability Insurance

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Aggregate:

\$3,000,000

Each Occurrence:

\$3,000,000

The umbrella policy will be written on an occurrence basis and at a minimum provide excess to the bidder's General Liability and Automobile Liability policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as certificate holder.

INSURANCE PROVIDED BY MANUFACTURER

Product Liability Insurance

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of Product Liability insurance:

Each Occurrence:

\$1,000,000

Products/Completed Operations Aggregate:

\$1,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form. The manufacturer's policy will include the owner as additional insured when required by written contract between the Owner and a Pierce authorized dealer.

Umbrella/Excess Liability Insurance

The manufacturer will, during the performance of the contract and for three (3) years from acceptance of the product, keep in force at least the following minimum limits of umbrella insurance:

Item # 9.

Each Occurrence:
\$25,000,000
Aggregate:
\$25,000,000

The umbrella policy will be written on an occurrence basis and provide excess to the manufacturer's General Liability/Products policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Manufacturer agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as the certificate holder.

0018180 Single Source Compliance, Aerials

SINGLE SOURCE MANUFACTURER

Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pump house (including the sheet metal enclosure, valve controls, piping and operators panel) body and aerial device will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.

0584456 Manufacture Location, Appleton, Wisconsin

Your apparatus will be manufactured in Appleton, Wisconsin.

0584452 RFP Location: Appleton, Wisconsin

0588609 Vehicle Destination, US

0829495 SP DAS Truck

DEALER ALLOCATED STOCK

This build started with DAS template 107' T3

0816491 Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions

NFPA 2024 STANDARDS

This unit will comply with the NFPA standards effective January 1, 2024, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions.

Certification of slip resistance of all stepping, standing and walking surfaces will 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 will be identified on the customer approval print and are shown as approximate. Actual location(s) will 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 will be provided. This plate will show the overall height, length, and gross vehicle weight rating.

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

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

0533351 Quint Fire Apparatus

0588612 Vehicle Certification, Aerial w/Pump

NFPA COMPLIANCY

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

Item # 9.

INSPECTION CERTIFICATE

A third party inspection certificate for the aerial device will be furnished upon delivery of the aerial device. The certificate will be Underwriters Laboratories Inc. Type 1 and will indicate that the aerial device has been inspected on the production line and after final assembly.

Visual structural inspections will be performed on all welds on both aluminum and steel ladders. On critical weld areas, or on any suspected defective area, the following tests will be conducted: Magnetic particle inspection will be conducted on steel aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. Magnets will be placed on each side of the weld while iron powder is placed on the weld itself. The powder will detect any crack that may exist. This test will conform to ASTM E709 and be performed prior to assembly of the aerial device.

A liquid penetrant test will be conducted on aluminum aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. This test will conform to ASTM E165 and be performed prior to assembly of the aerial device.

Ultrasonic inspection will be conducted on all aerials to detect any flaws in pins, bolts and other critical mounting components.

In addition to the tests above, functional tests, load tests, and stability tests will be performed on all aerials. These tests will determine any unusual deflection, noise, vibration, or instability characteristics of the unit.

PUMP TEST

The pump will be tested, approved and certified by Underwriter's Laboratory at the manufacturer's expense. The test results and 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 will be forwarded to the Fire Department.

GENERATOR TEST

If the unit has a generator, the generator will be tested, approved, and certified by Underwriters Laboratories at the manufacturer's expense. The test results will be provided to the Fire Department at the time of delivery.

BREATHING AIR TEST

If the unit has breathing air, Pierce Manufacturing will draw an air sample from the air system and certify that the air quality meets the requirements of NFPA 1989, *Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection*.

0816495

Certification, Vehicle Inspection
Program, NFPA 1900

VEHICLE INSPECTION PROGRAM CERTIFICATION

To assure the vehicle is built to current NFPA1900 standards, the apparatus, in its entirety, will be third-party, independent, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition. The certification includes: all design, production, operational, and performance testing of not only the apparatus, but those components that are installed on the apparatus.

A placard will be affixed in the driver's side area stating the third party agency, the date, the standard and the certificate number of the whole vehicle audit.

0537375

Unit of Measure, US Gallons

0030006

Bid Bond Not Requested

BID BOND NOT REQUESTED

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

All bidders will 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 will 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 will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language, which assures that the bidder/principal will 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 will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will 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 will prevail.

0816571

Performance Bond, 100% with 25%
Warranty Bond, 1 Yr, and Payment
Bond, PPI Terms

PERFORMANCE BOND, 1 YEAR

The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100% of the total contract amount within 30 days of the notice of award. Such Bond will 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 Basic One (1) Year Limited Warranty period included within this proposal. Owner agrees that the penal amount of this bond will 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 will not exceed one (1) year from the date of such satisfactory acceptance and delivery, or the actual Basic One (1) Year Limited 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 will be made available, and a final firm delivery date will 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 Pierce 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 will document any such updated price for the customer's approval before proceeding and provide an option to cancel the order.

Item # 9.

0000007

Approval Drawing

APPROVAL DRAWING

A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.

A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.

0002928

Electrical Diagrams

ELECTRICAL WIRING DIAGRAMS

Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.

0786875

Enforcer Chassis, Aerials, Tandem
Axle, Ascendant/LSL

ENFORCER CHASSIS

The Pierce Enforcer™ is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.

0000110

Wheelbase

WHEELBASE

The wheelbase of the vehicle will be 249.00.

0000070

GVW Rating

GVW RATING

The gross vehicle weight rating will be 66,800.

0729280

Frame Rails, 13.38 x 3.50 x .375,
Enforcer

FRAME

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

0889469

Frame Liner, "C/Inv L" 12.50" x 3.00"
x .25", AXT/Vel/Imp/Enf, 56" QVal

FRAME REINFORCEMENT

In addition, a mainframe internal liner will be provided. The liner will be an internal "C" design that steps to an internal "L" design over the rear axle. It will be heat-treated steel measuring 12.50" x 3.00" x 0.25" through the front portion of the liner, stepping to 9.38" x 3.00" x 0.25" through the rear portion of the liner. Each liner will have a section modulus of 13.58 cubic inches, yield strength of 110,000 psi, and rbm of 1,494,042 in-lb. Total rbm at wheelbase center will be 4,391,869 in-lb.

The frame liner will be mounted inside of the chassis frame rail and extend the full length of the frame.

0629940

Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Enforcer

FRONT NON DRIVE AXLE

The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 22,800 lb.

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

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

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

There will 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 will 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 will be zero degrees for optimum tire life.

The ball joint bearing will 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 will be provided.

The wheel ends will have little to no bump steer when the chassis encounters a hole or obstacle. The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase.

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

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0010427

Suspension, Front TAK-4, 22,800 lb, Qtm/AXT/Imp/Vel/Enf/SFR

FRONT SUSPENSION

Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 22,800 lb.

The independent suspension system will be designed to provide maximum ride comfort. The design will 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 will have torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension.

The suspension design will 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 was put through a durability test that simulated 140,000 miles of inner city driving.

0087572

Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/DCF/Enf

FRONT SHOCK ABSORBERS

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

0000322

Oil Seals, Front Axle

FRONT OIL SEALS

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

0899438

Tires, Front, Goodyear, Armor MAX MSA, 425/65R22.50, 20 ply

FRONT TIRES

Front tires will be Goodyear 425/65R22.50 radials, 20 ply Armor Max MSA, rated for 22,800 lb maximum axle load and 68 mph maximum speed.

0752585

Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Dura-Black, Hub Pilot

The tires will be mounted on Alcoa® 22.50" x 12.25" Dura-Black® aluminum disc type wheels with a ten (10) stud, 11.25" bolt circle.

0785450

Axle, Rear, Oshkosh TAK-4 T3, 44,000 lb, Rear Steer, 2 Axle, Enforcer

REAR AXLE

The rear axle will be a tandem axle assembly, of the Oshkosh TAK-4® T3, Tight Turning Technology, independent suspension design, with the ability to support a mechanical rear axle steering system. Tandem rear axles will have a ground rating of 44,000 lb.

The rear axles will be designed for specific use of the independent suspension.

The rear independent suspension driving axles will be equipped with a carrier reduction of 1.69 to 1.00 with a planetary wheel end reduction of 3.55 to 1.00. Driving torque will be transmitted from the center differential to the planetary wheel drive by means of a half shaft.

Oil fills and level checks will be required at the center differential and the planet wheel end locations.

An inter-axle differential, which divides torque evenly between axles, will be provided with an indicator light mounted on the cab instrument panel.

REAR AXLE STEERING

The tandem rear axle assembly will include a mechanical rear steering system. The mechanical rear steering system will be applied to both rear axles.

The steering geometry will be designed to minimize tire scrub of the rear tandem axle tires while reducing the overall turning diameter of the apparatus.

The mechanical rear steering system will not use electronic controls and will not have a means to be disengaged. Coordinated steering is the only steering mode supported by the mechanical steering system.

Rear steering system is actuated by a mechanical means of connecting the front master/slave steering gear system to a rear axle master/slave steering gear system.

0544244	Top Speed of Vehicle, 60 MPH/96 KPH	TOP SPEED OF VEHICLE A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 60 mph/96	Item # 9.
0639379	Suspen, Rear, Oshkosh TAK-4, Independent, 44,000 lb	REAR SUSPENSION The rear suspension will be an Oshkosh TAK-4® independent type with a minimum ground rating of 44,000 lbs. The independent suspension will be configured with upper and lower control arms with a spring seat for a coil spring mounted to the lower control arm. The spring tower will be integrated into the suspension frame mount. Each control arm has elastomeric bushings at the inner pivot locations with a ball joint bearing at the outer pivot location. All suspension pivot joints will be of a maintenance free design. The rear independent suspension will be provided with steering toe links providing tow adjustments and maintaining wheel control throughout the range of wheel travel. The independent suspension will be designed to provide maximum ride quality when traveling at highway speeds over improved roads or a moderate speeds over secondary road surfaces with minimal transfer of shock and vibration to the apparatus. Each independent suspension will utilize a coil type of spring. The design will allow for removal of the spring without the use of any spring compression. The rear suspension will provide a minimum wheel travel of 10.00", 6.00" jounce and 4.00" of rebound.	
0000485	Oil Seals, Rear Axle	REAR OIL SEALS Oil seals will be provided on the rear axle(s).	
0802654	Tires, Rear, Goodyear, Armor Max MSA, 445/65R22.5, 20 ply, (AWS/IRS), Tandem	REAR TIRES Rear tires will be four (4) Goodyear radials 445/65R22.50, 20 ply all-position Armor Max MSA tread, rated for 49,200 lb maximum axle load and 68 mph maximum speed.	
0826900	Wheels, Rear, 22.50" x 13.00", Steel, Hub Pilot, Tandem, AWS/IRS	The tires will be mounted on 22.50" x 13.00" steel disc type wheels with a ten (10) stud, 11.25" bolt circle.	
0568081	Tire Balancing, Counteract Beads	TIRE BALANCE All tires will be balanced with Counteract balancing beads. The beads will be inserted into the tire and eliminate the need for wheel weights.	
0620569	Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Tandem Axle	TIRE PRESSURE MANAGEMENT There will be a RealWheels LED AirSecure™ tire alert pressure management system provided, that will monitor each tire's pressure. A sensor will be provided on the valve stem of each tire for a total of 10 tires. The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi. Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start to flash.	
0801932	Lug Nut, Covers, Stainless Steel	LUG NUT COVERS Stainless steel lug nut covers will be installed on all lug nuts.	
0003245	Axle Hub Covers w/center hole, S/S, Front Axle	FRONT HUB COVERS Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.	
0002045	Mud Flap, Front and Rear, Pierce Logo	MUD FLAPS Mud flaps with a Pierce logo will be installed behind the front and rear wheels.	
0601010	Chocks, Wheel, SAC-44-E, Folding, Aerials	WHEEL CHOCKS There will be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks, with easy-grip handle provided.	
0601009	Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal, Aerials	Wheel Chock Brackets There will 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 will be made of aluminum and consist of a quick release spring loaded rod to hold the wheel chocks in place. The brackets will be mounted forward of the left side rear tire.	

0821337	ABS Wabco Brake System, Tandem Rear Axle, Tak-4, NFPA 1900/ULC	<p>ANTI-LOCK BRAKE SYSTEM</p> <p>The vehicle will be equipped with a Wabco 4S4M, anti-lock braking system. The ABS will be a four (4) channel anti-lock braking control on both the front and rear wheels (rear axle tandems). A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel sensor will be monitored by the system. When any particular wheel begins to lockup, a signal will be sent to the control unit. This control unit then will reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.</p>
0030185	Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	<p>BRAKES</p> <p>The service brake system will be full air type. The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance. The brake system will be certified, third party inspected, for improved stopping distance.</p>
0581433	Brakes, Bendix, Cam, Rear, 16.50 x 7.00"	The rear brakes will be Bendix®, Model ES1657D, 16.50" x 7.00" cam operated with automatic slack adjusters.
0020784	Air Compressor, Brake, Cummins/Wabco 18.7 CFM	<p>BRAKE SYSTEM AIR COMPRESSOR</p> <p>The air compressor will be a Cummins/WABCO with 18.7 cubic feet per minute output.</p>
0637583	Brake Reservoirs, 6,408 Cubic Inch Minimum Capacity, Saber FR/Enforcer	<p>BRAKE SYSTEM</p> <p>The brake system will include:</p> <ul style="list-style-type: none"> Brake treadle valve Heated automatic moisture ejector on air dryer Total air system capacity of 6,408 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, will be provided 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 will be primed and painted to meet a minimum 750 hour salt spray test. The air tanks will be painted same as frame color. To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.
0790412	Air Dryer, Wabco System Saver 1200 IWT, Heated, SFR/Enf	<p>BRAKE SYSTEM AIR DRYER</p> <p>The air dryer will be a WABCO System Saver 1200 IWT, with internal wet tank, spin-on coalescing filter cartridge and 100 watt heater.</p>
0000790	Brake Lines, Nylon	<p>BRAKE LINES</p> <p>Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.</p>
0000854	Air Inlet, w/Disconnect Coupling	<p>AIR INLET</p> <p>One (1) air inlet with 3D series male coupling will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will be located forward in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female fitting will also be provided with the loose equipment.</p>
0070810	All Wheel Lockup (Aerial/Tanker Chassis)	<p>ALL WHEEL LOCK-UP</p> <p>An additional all wheel lock-up system will be installed which applies air to the front brakes only. The standard spring brake control valve system will be used for the rear.</p>

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0811237

SP

Engine, Cummins X15, 605 hp, 1850 lb-ft, W/OBD, EPA 2024, Enforcer, BMP/HDR/STK

ENGINE

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

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Make:

Cummins®

Model:

X15

Power:

605 hp at 1800 rpm

Torque:

1850 lb-ft at 1000 rpm

Governed Speed:

2100 rpm

Emissions Level:

EPA 2024

Fuel:

Diesel

Cylinders:

Six (6)

Displacement:

912 cubic inches (14.9L)

Starter:

Delco 39MT™

Fuel Filters:

Spin-on style primary filter with water separator and water-in-fuel sensor. Secondary spin-on style filter.

The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected.

The engine will be filled with FA-4 10W30 oil as required by Cummins.

0811409

Not Required, Engine Contingency Adjustment

0730808

Filters, Remote Mounted, Oil, Fuel, X15, VEL/AXT/Enf

REMOTE MOUNTED ENGINE FILTERS

The engine fuel and oil filters will be remote mounted for ease of maintenance.

0001244

High Idle w/Electronic Engine, Custom

HIGH IDLE

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

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

0687994

Engine Brake, Jacobs Compression Brake, Cummins Engine

ENGINE BRAKE

A Jacobs® engine brake is to be installed with the controls located on the instrument panel within easy reach of the driver.

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

The engine brake will activate when the system is on and the throttle is released.

The high setting of the brake application will activate and work simultaneously with the variable geometry turbo (VGT) provided on the engine.

The engine brake will be installed in such a manner that when the engine brake is slowing the vehicle the brake lights are activated.

The ABS system will automatically disengage the auxiliary braking device, when required.

0644227

Clutch, Fan, Air Actuated, Saber FR/Enforcer

CLUTCH FAN

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

0640477

Air Intake, Metal Screen, Saber FR/Enforcer

ENGINE AIR INTAKE

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

A stainless steel metal screen will be installed at the inlet of the air intake system that will meet current edition of applicable NFPA standards.

The air cleaner and stainless steel screen will be easily accessible by tilting the cab.

0814375	Exhaust System, Horizontal, Right Side	<p>EXHAUST SYSTEM</p> <p>The exhaust system will be stainless steel from the turbo to the engine's aftertreatment device. The exhaust system will include an aftertreatment device to meet current EPA standards. Insulation wrap will be provided on all exhaust pipe between the turbo and the aftertreatment device to minimize the transfer of heat to the cab.</p> <p>The exhaust will terminate horizontally ahead of the right side rear wheels and will be flush with the body rub rail. The exhaust pipes will be aluminized steel.</p> <p>There will 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 will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.</p>
0788765	Radiator, Saber FR/Enforcer	<p>RADIATOR</p> <p>The radiator and the complete cooling system will meet or exceed the current edition of applicable NFPA and engine manufacturer cooling system standards.</p> <p>For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes.</p> <p>The radiator core will have a minimum front area of 1060 square inches.</p> <p>Supply tank will be made of heavy duty glass-reinforced nylon and the return tank will be made of aluminum. Both tanks will be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There will be a full steel frame around the inserts to enhance cooling system durability and reliability.</p> <p>The radiator will be compatible with commercial antifreeze solutions.</p> <p>The radiator assembly will 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.</p> <p>The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap.</p> <p>A drain port will 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.</p> <p>Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.</p>
0001090	Cooling Hoses, Rubber	<p>COOLANT LINES</p> <p>Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing.</p> <p>Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.</p>
0001125	Fuel Tank, 65 Gallon, Left Side Fill	<p>FUEL TANK</p> <p>A 65 gallon fuel tank will be provided and mounted at the rear of the chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To eliminate the effects of corrosion, the fuel tank will be mounted with stainless steel straps.</p> <p>A 0.75" drain plug will be located in a low point of the tank for drainage.</p> <p>A fill inlet will be located on the left hand side of the body and is covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only."</p> <p>A 0.50" diameter vent will be installed from tank top to just below fuel fill inlet.</p> <p>The fuel tank will meet all FHWA 393.67 requirements including a fill capacity of 95 percent of tank volume.</p>
0001129	Lines, Fuel	<p>All fuel lines will be provided as recommended by the engine manufacturer.</p>
0764563	DEF Tank, 8.0 Gallon, LS Fill, Forward of Rear Axle	<p>DIESEL EXHAUST FLUID TANK</p> <p>An 8.0 gallon diesel exhaust fluid (DEF) tank will be provided and mounted in the left side body forward of the rear axle.</p> <p>A 0.50" drain plug will be provided in a low point of the tank for drainage.</p> <p>A fill inlet will be provided and marked "Diesel Exhaust Fluid Only". The fill inlet will be located behind a, painted door on the left side of the vehicle.</p> <p>The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing.</p> <p>The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.</p>
0723716	Fuel Priming Pump, Electronic, Automatic, Cummins, No Swt Req'd	<p>FUEL PRIMING PUMP</p> <p>A Cummins automatic electronic fuel priming pump will be integrated as part of the engine.</p>
0552712	Not Required, Shutoff Valve, Fuel Line	
0699437	Cooler, Chassis Fuel, Not Req'd.	

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0578959	Fuel/Water Separator, Racor Inline	FUEL SEPARATOR The engine will be equipped with a Racor in-line spin-on fuel and water separator in addition to the engine fuel filters.	Item # 9.
0801890	Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	TRANSMISSION An Allison 6th generation, Model EVS 4500P, electronic, torque converting, automatic transmission will be provided. The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due. Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock). A transmission temperature gauge with amber light and buzzer will be installed on the cab instrument panel.	
0512762	Transmission, Shifter, 6-Spd, Push Button, 4500, Imp/Vel/Qtm/DCF/Enf	TRANSMISSION SHIFTER A six (6)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation. The transmission ratio will be: 1st - 4.70 to 1.00, 2nd - 2.21 to 1.00, 3rd - 1.53 to 1.00, 4th - 1.00 to 1.00, 5th - 0.76 to 1.00, 6th - 0.67 to 1.00, R - 5.55 to 1.00.	
0684459	Transmission Oil Cooler, Modine, External	TRANSMISSION COOLER A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.	
0001375	Driveline, Spicer 1810	DRIVELINE Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints. The shafts will be dynamically balanced before installation. A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.	
0669988	Steering, Sheppard M110 w/Tilt, TAK-4, Eaton Pump, w/Cooler	STEERING Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and an Eaton, Model VN20, hydraulic pump with integral pressure and flow control. All power steering lines will have wire braided lines with crimped fittings. A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.	
0605356	Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	STEERING WHEEL The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.	
0559647	Pierce Logo on Horn Button		
0606551	Bumper, 13" Extended, Steel Painted, Saber FR/Enforcer	BUMPER A one (1) piece bumper manufactured from 0.25" formed steel with a 0.38" bend radius will be provided. The bumper will be a minimum of 10.00" high with a 1.50" top and bottom flange, and will extend 13.00" from the face of the cab. The bumper will be 95.28" wide with 45 degree corners and side plates. The bumper will be metal finished and painted job color. To provide adequate support strength, the bumper will be mounted directly to the front of the C channel frame. The frame will be a bolted modular extension frame constructed of 50,000 psi tensile steel. The bumper will be extended 13.00" from front face of cab. Gravel Pan A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and cab face. The gravel pan will be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.	
0639017	Tray, Hose, Center, 13" Bumper, Outside Air Horns	CENTER HOSE TRAY A hose tray, constructed of aluminum, will be placed in the center of the bumper extension. The tray will have a capacity of 100' of 1.50" double jacket cotton-polyester hose. Black rubber grating will be provided at the bottom of the tray. Drain holes are also provided.	
0630809	Cover, Aluminum Treadplate, One (1) D-Ring Latch, Hose Tray, Notched	Center Hose Tray Cover A bright aluminum treadplate cover will be provided over the center hose tray. The cover will be "notched" allowing the hose to be pre connected to hose connection. The cover will be attached with a stainless steel hinge. A D-ring latch will secure the cover in the closed position and a pneumatic stay arm will hold the cover in the open position. The arm will be located RS of tray.	

0614646 No Lift & Tow Package, Imp/Vel, AXT,
SFR/Enf

Item # 9.

0049963 Tow Eyes, Painted Black, Below
Deck

TOW EYES

Two (2) painted steel tow eyes will be installed under the bumper and attached to the front frame members. The tow eyes will 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 eyes will not be used for lifting of the apparatus.

The inner and outer edges of the tow eyes will have a .25" radius.
The tow eyes will be painted black.

0789736 Cab, Enforcer, 7010 w/Notch

CAB

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

The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises.

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

The cab will 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 will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will 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 will 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 will 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 will 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 will 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 will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will 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 will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability.

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

The forward cab section will have an overall height (from the cab roof to the ground) of approximately 99.00". The crew cab section will have a 10.00" raised roof, with an overall cab height of approximately 109.00". The overall height listed will 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 will increase the overall height listed.

The raised roof section of the crew cab will have a 58.00" wide x 10.00" high square notch in the center section of the roof. This will allow the aerial device to be bedded in the same location as a non-raised roof.

The floor to ceiling height inside the crew cab will be 54.50" in the center position and 64.50" in the outboard positions.

The crew cab floor will measure 46.00" from the rear wall to the back side of the rear facing seat risers.

The medium block engine tunnel, at the rearward highest point (knee level), will measure 61.50" to the rear wall. The big block engine tunnel will measure 51.50" to the rear wall.

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

The cab will be a full tilt cab style.

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

CAB ROOF DRIP RAIL

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

FENDER LINERS

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

PANORAMIC WINDSHIELD

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

WINDSHIELD WIPERS

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

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

0727969	Engine Tunnel, X15, Foil Insulation w/Mech Fasteners, Enforcer	<p>ENGINE TUNNEL Engine tunnel side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger room. Item # 9.</p> <p>The engine tunnel will be insulated for protection from heat and sound. Perforated foil faced insulation will be over a 1.00" thick closed cell foam affixed with pressure sensitive adhesive and further secured with mechanical fasteners. Thermal rating for this insulation will be -40 degrees Fahrenheit to 300 degrees Fahrenheit. The noise insulation keeps the dBA level within the limits stated in the current edition of applicable NFPA standards. The engine tunnel will be no higher than 18.00" off the crew cab floor.</p>
0887601	Cab Insulation, Enforcer/Saber FR	<p>INTERIOR CAB INSULATION The cab will 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.</p>
0633594	Rear Wall, Interior, Adjustable Seating	<p>INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING) The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.</p>
0632103	Rear Wall, Exterior, Cab, Saber FR/Enforcer	<p>CAB REAR WALL EXTERIOR COVERING The exterior surface of the rear wall of the cab will be overlaid with bright aluminum treadplate except for areas that are not typically visible when the cab is lowered.</p>
0644201	Cab Lift, Elec/Hyd, Saber FR/Enforcer	<p>CAB LIFT A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves. Lift controls will be located on the right side pump panel or front area of the body in a convenient location. The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal. The cab will 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 will 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 will return to the normally closed and locked position. The hydraulic cylinders will 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 will 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 will be manually stowed to its original position before the cab can be lowered.</p> <p>Cab Lift Interlock The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will 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 will be disabled.</p>
0695930	Grille, Bright Finished, Front of Cab, Enforcer	<p>GRILLE A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab.</p>
0647932	Not Required, Trim, S/S Band, Across Cab Face, AXT/Saber/Enforcer	
0015440	No Chrome Molding, On side of cab	
0772130	Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex, Marker Light	<p>MIRRORS A Retractable, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver. An amber marker light will be provided on each mirror head.</p>

0648170	Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Raised Roof	<p>DOORS</p> <p>To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 73.25" high.</p> <p>The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum. A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle will be chrome/black. The exterior handle will be designed specifically for the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands.</p> <p>Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands.</p> <p>The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed.</p> <p>A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit.</p> <p>A chrome grab handle will be provided on the inside of each cab door for ease of entry. A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted.</p> <p>The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.</p>
0655543	Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	<p>Door Panels</p> <p>The inner cab door panels will be constructed out of brushed stainless steel.</p>
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	<p>ELECTRIC OPERATED CAB DOOR WINDOWS</p> <p>All four (4) cab doors will be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door will have four (4) switches, one (1) to control each door window.</p> <p>Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second.</p>
0638310	Steps, 4-Door Cab, Saber FR/Enforcer	<p>CAB STEPS</p> <p>The forward cab and crew cab access steps will be a full size two (2) step design to provide largest possible stepping surfaces for safe ingress and egress. The bottom steps will be designed with a grip pattern punched into bright aluminum treadplate material to provide support, slip resistance, and drainage. The bottom steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.65" wide with a 10.00" minimum depth. The inside cab steps will not exceed 16.50" in height.</p> <p>The vertical surfaces of the step well will be aluminum treadplate.</p>
0770194	Handrail, Exterior, Knurled, Alum, 4-Door Cab	<p>CAB EXTERIOR HANDRAILS</p> <p>A 1.25" diameter slip-resistant, knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.</p>
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	<p>STEP LIGHTS</p> <p>There will be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps.</p> <p>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.</p> <p>In order to ensure exceptional illumination, each light will 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 will be activated when the battery switch is on and the adjacent door is opened.</p>
0583698	Fenders, S/S on cab, Extra Wide, Saber/Enf	<p>FENDER CROWNS</p> <p>Stainless steel fender crowns will be installed at the cab wheel openings.</p>
0042105	No Windows, Side of Crew Cab	
0779033	Not Required, Windows Rear of Crew Cab, Saber FR/Enforcer	

Item # 9.

0798597	Holder, Cup, Cab/Crewcab, Each, Loc	<p>CUP HOLDER There will be four (4) cup holder(s) provided. Each cup holder will have self-adjusting fingers that will automatically grip beverage containers of various sizes. A recess in the cup holder will hold beverage containers with handles. The cup holder(s) will be located TBD at Final.</p>	Item # 9.
0894089	Dash, Heavy Duty Metal, Enforcer	<p>CAB DASH The driver side dash, switch panel located to the right of the driver, and center console will be constructed of metal and painted fire smoke gray. The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior. The instrument gauge cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster.</p>	
0634206	Mounting Provisions, 1/4" Alum, Full Engine Tunnel, Saber FR/Enforcer	<p>MOUNTING PLATE ON ENGINE TUNNEL Equipment installation provisions will be installed on the engine tunnel. A 0.25" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will follow the contour of the engine tunnel and will run the entire length of the engine tunnel. The plate will be spaced off the engine tunnel 1.00" to allow for wire routing below the plate. The mounting surface will be painted to match the cab interior.</p>	
0750824	Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	<p>CAB INTERIOR The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service. The engine tunnel will be padded and covered, on the top and sides, with dark silver gray 36 ounce leather grain vinyl resistant to oil, grease, and mildew. For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum. The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on an aluminum sheet and securely fastened to interior cab ceiling. The forward portion of the cab headliner will permit easy access for service of electrical wiring or other maintenance needs. All wiring will be placed in metal raceways. CAB INTERIOR UPHOLSTERY The cab interior upholstery will be 36 oz dark silver gray vinyl.</p>	
0753903	Cab Interior, Paint Color, Saber FR/Enforcer	<p>CAB INTERIOR PAINT The cab interior metal surfaces, excluding the rear heater panels, will be painted fire smoke gray, vinyl texture paint. The rear heater panels will be painted black, vinyl textured paint.</p>	
0052100	Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	<p>CAB FLOOR The cab and crew cab floor areas will 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.</p>	

DEFROST/AIR CONDITIONING SYSTEM

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

Item # 9.

Cab Defroster

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

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

The defroster will 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 will meet or exceed SAE J382 requirements.

Cab/Crew Auxiliary Heater

There will 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 19.10 cubic inch compressor will be installed on the engine. A roof-mounted condenser with a 78,000 BTU output at 2,400 SCFM that meets and exceeds the performance specification will be installed on the cab roof. The condenser cover to be painted to match the cab roof.

The air conditioning system will 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 will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours.

The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will 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 rear plenum will be covered with a formed plastic cover.

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

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

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

Adjustable air outlets will be strategically located on the evaporator cover per the following: Minimum of five (5) outlets directed towards crew cab area.

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

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

Climate Control

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

The system will 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 will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will 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 will be located within panel position #12.

Gravity Drain Tubes

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

0639675

Sun Visor, Smoked Lexan, AXT, Imp/Vel, SFR/Enf

SUN VISORS

Two (2) smoked Lexan™ sun visors will be provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab. There will be a black plastic thumb latch provided to help secure each sun visor in the stowed position.

0622887

Grab Handles, Driver Door Post, Officer Door Post Low, Saber FR/Enforcer

GRAB HANDLE

A black rubber covered grab handle will 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 will be mounted on the lower portion of the door post. The grab handle will be securely mounted to the post area between the door and windshield.

0583938

Lights, Engine Compmt, Custom, Auto Sw, Wln 3SC0CDCR, 3" LED, Trim

ENGINE COMPARTMENT LIGHTS

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

These light(s) will be activated automatically when the cab is raised.

0631830

Fluid Check Access, Saber
FR/Enforcer, Arrow XT

ACCESS TO ENGINE DIPSTICKS

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

Item # 9.

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

The door will have a rubber seal for thermal and acoustic insulation. One (1) flush lift and turn latch will be provided on the access door.

0583042

Side Roll and Frontal Impact
Protection

CAB SAFETY SYSTEM

The cab will be provided with a safety system designed to protect occupants in the event of a side roll or frontal impact, and will include the following:

A supplemental restraint system (SRS) sensor will be installed on a structural cab member behind the instrument panel. The SRS sensor will perform real time diagnostics of all critical subsystems and will record sensory inputs immediately before and during a side roll or frontal impact event.

A slave SRS sensor will be installed in the cab to provide capacity for eight (8) crew cab seating positions.

A fault-indicating light will be provided on the vehicle's instrument panel allowing the driver to monitor the operational status of the SRS system.

A driver side front air bag will be mounted in the steering wheel and will be designed to protect the head and upper torso of the occupant, when used in combination with the 3-point seat belt.

A passenger side knee bolster air bag will be mounted in the modesty panel below the dash panel and will be designed to protect the legs of the occupant, when used in combination with the 3-point seat belt.

Air curtains will be provided in the outboard bolster of outboard seat backs to provide a cushion between occupant and the cab wall.

Suspension seats will be provided with devices to retract them to the lowest travel position during a side roll or frontal impact event.

Seat belts will be provided with pre-tensioners to remove slack from the seat belt during a side roll or frontal impact event.

Frontal Impact Protection

The SRS system will provide protection during a frontal or oblique impact event. The system will activate when the vehicle decelerates at a predetermined G force known to cause injury to the occupants. The cab and chassis will have been subjected, via third party test facility, to a crash impact during frontal and oblique impact testing. Testing included all major chassis and cab components such as mounting straps for fuel and air tanks, suspension mounts, front suspension components, rear suspensions components, frame rail cross members, engine and transmission and their mounts, pump house and mounts, frame extensions and body mounts. The testing provided configuration specific information used to optimize the timing for firing the safety restraint system. The sensor will activate the pyrotechnic devices when the correct crash algorithm, wave form, is detected.

The SRS system will deploy the following components in the event of a frontal or oblique impact event:

Driver side front air bag

Passenger side knee bolster air bag

Air curtains mounted in the outboard bolster of outboard seat backs

Suspension seats will be retracted to the lowest travel position

Seat belts will be pre-tensioned to firmly hold the occupant in place

Side Roll Protection

The SRS system will provide protection during a fast or slow 90 degree roll to the side, in which the vehicle comes to rest on its side. The system will analyze the vehicle's angle and rate of roll to determine the optimal activation of the advanced occupant restraints.

The SRS system will deploy the following components in the event of a side roll:

Air curtains mounted in the outboard bolster of outboard seat backs

Suspension seats will be retracted to the lowest travel position

Seat belts will be pre-tensioned to firmly hold the occupant in place

0622618

Seating Capacity, 5 Belted Seats

SEATING CAPACITY

The seating capacity of the vehicle (including tiller cab and belted seat positions in the rescue body) will be five (5).

0636955

Seat, Driver, Pierce PSV, Air Ride,
High Back, Safety, PRIMARY,
SFR/Enf

DRIVER SEAT

A seat will be provided in the cab for the driver. The seat design will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have an adjustable reclining back. The seat back will be a high back style with side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control).

The seat will include the following features incorporated into the side roll protection system:

Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.

A suspension seat safety system will be included. When activated in the event of a side roll, this system will pretension the seat belt and retract the seat to its lowest travel position.

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

0636942	Seat, Officer, Pierce PSV, Fixed, SCBA, Safety, PRIMARY, SFR/Enf	<p>OFFICER SEAT A seat will be provided in the cab for the passenger. The seat will be a fixed type, with suspension. For optimal comfort, the seat will be provided with 17.00" deep foam cushion designed with EVC (elastomeric vibration control). Item # 9.</p> <p>The seat back will be an SCBA back style with 95 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.</p> <p>The seat will include the following features incorporated into the side roll protection system: Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position.</p> <p>A seat safety system will be included. When activated, this system will pretension the seat belt. The seat will be furnished with a 3-point, shoulder type seat belt.</p>
0620420	Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	<p>RADIO COMPARTMENT A radio compartment will be provided under the officer's seat.</p> <p>The inside compartment dimensions will be 16.00" wide x 7.50" high x 15.00" deep, with the back of the compartment angled up to match the cab structure.</p> <p>A drop-down door with one (1) flush lift and turn latch will be provided for access.</p> <p>The compartment will be constructed of smooth aluminum and painted to match the cab interior.</p>
0757990	Cabinet, Rear Facing, LS, 23 W x 40.25 H x 26.75 D, Roll, Ext Acc, SFR/Enf	<p>REAR FACING LEFT SIDE CABINET A rear facing cabinet will be provided in the crew cab at the left side outboard position.</p> <p>The cabinet will be 23.00" wide x 40.25" high x 26.75" deep with one (1) Amdor rollup door with anodized finish, locking with #751 key. The frame to frame opening will be 16.00" wide x 35.00" high. The minimum clear door opening of the cabinet will be 13.25" wide x 29.12" high.</p> <p>The cabinet will also provide access from outside the cab with one (1) reverse hinged double pan door painted to match the cab exterior with a locking D-ring latch with #751 key. A pneumatic stay arm will be provided as a door stop. The door will be located on the side of the cab over the wheelwell. The clear door opening will be 17.00" wide x 34.00" high.</p> <p>The cabinet will include two (2) infinitely adjustable shelves with a 1.25" up-turned lippainted to match the cab interior.</p> <p>The cabinet will include no louvers.</p> <p>The exterior access will be provided with a brushed stainless steel scuffplate on the lower door frame.</p> <p>The cabinet will be constructed of smooth aluminum and painted to match the cab interior.</p> <p>Cabinet Light There will be one (1) Amdor H2O LED strip light installed on the left side of the exterior cabinet door opening and one (1) red Amdor H2O LED strip light installed on the left side of the exterior cabinet door opening. The lights will be controlled by an automatic door switch.</p>
0102783	Not Required, Seat, Rr Facing C/C, Center	
0757962	Cabinet, Rear Facing, RS, 22 W x 40.25 H x 26.75 D, Roll, Ext Acc, SFR/Enf	<p>REAR FACING RIGHT SIDE CABINET A rear facing cabinet will be provided in the crew cab at the right side outboard position.</p> <p>The cabinet will be 22.00" wide x 40.25" high x 26.75" deep with one (1) Amdor rollup door with anodized finish, locking with #751 key. The frame to frame opening will be 15.00" wide x 35.00" high. The minimum clear door opening of the cabinet will be 12.25" wide x 29.12" high.</p> <p>The cabinet will include two (2) infinitely adjustable shelves with a 1.25" up-turned lippainted to match the cab interior.</p> <p>The cabinet will include no louvers.</p> <p>The cabinet will also provide access from outside the cab with one (1) reverse hinged double pan door painted to match the cab exterior with a locking D-ring latch with #751 key. A pneumatic stay arm will be provided as a door stop. The exterior clear door opening will be 17.00" wide x 34.00" high.</p> <p>The exterior access will be provided with a brushed stainless steel scuffplate on the lower door frame.</p> <p>The cabinet will be constructed of smooth aluminum, and painted to match the cab interior.</p> <p>Cabinet Light There will be one (1) red Amdor LED strip light installed on the right side of the exterior cabinet door opening and one (1) red Amdor LED strip light installed on the left side of the exterior cabinet door opening. The lights will be controlled by an automatic door switch.</p>
0108189	Not Required, Seat, Forward Facing C/C, LS Outboard	

0893570	SP Seat, Fwd Fcng C/C, Ctr, (3) PSV, SCBA, OB Fld, Safety, Evenly Spaced, PRIMARY, Enf	<p>FORWARD FACING CENTER SEATS</p> <p>There will be three (3) forward facing seats provided at the center position in the crew compartment. For optimal comfort, the seats will be provided with 15.00" deep foam cushions designed with elastomeric vibration control. The seats will be evenly spaced along the rear wall. The outboard seats will be mounted inboard 5.50" from standard. The seat backs will be an SCBA style with 90 degree back. The SCBA cavity will be adjustable from front to rear in 1.00" increments to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location. The outboard seats will be foldup. The center seat will be fixed. The seats will include the following feature incorporated into the side roll protection system: A seat safety system will be included. When activated, this system will pretension the seat belts around the occupants to firmly hold them in place in the event of a side roll. The seats will be furnished with a 3-point, shoulder type seat belt.</p>
0108190	Not Required, Seat, Forward Facing C/C, RS Outboard	
0766467	Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	<p>SEAT UPHOLSTERY</p> <p>All seat upholstery will be leather grain 36 oz dark silver gray vinyl resistant to oil, grease and mildew. The cab and tiller cab (if applicable) will have five (5) seating positions.</p>
0543991	Bracket, Air Bottle, Hands-Free II, Cab Seats	<p>AIR BOTTLE HOLDERS</p> <p>All SCBA type seats in the cab will have a "Hands-Free" auto clamp style bracket in its backrest. For efficiency and convenience, the bracket will 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 will constrain the SCBA bottle in the seat and will exceed the NFPA standard of 9G. There will be a quantity of four (4) SCBA brackets.</p>
0603866	Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	<p>SEAT BELTS</p> <p>All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of applicable NFPA and CAN/ULC - S515 standards. The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position. The 3-point shoulder type belts will 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 will include a 3-point shoulder type belts only. To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled.</p>
0817556	Helmet Storage, Provided by Dealer, NFPA/ULC 2024	<p>HELMET STORAGE PROVIDED BY DEALER</p> <p>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 dealer will provide a location for storage of helmets.</p>
0647647	Lights, Dome, FRP Dual LED 4 Lts	<p>CAB DOME LIGHTS</p> <p>There will be four (4) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) on each side of the crew cab. The color of the LED's will be red and white. The white LED's will be controlled by the door switches and the lens switch. The color LED's will be controlled by the lens switch. All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position.</p>
0896451	Enhanced Software for Cab and Crew Cab Dome Lts	<p>ENHANCED SOFTWARE FOR CAB AND CREW CAB DOME LIGHTS</p> <p>The cab and crew cab dome lights will remain on for 10 seconds for improved visibility after the doors are closed. The dome lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.</p>
0816997	Portable Hand Light, Provided by Fire Dept, NFPA/ULC 2024	<p>PORTABLE HAND LIGHTS PROVIDED BY FIRE DEPARTMENT</p> <p>The hand lights are not on the apparatus as manufactured. The fire department will provide and mount these hand lights.</p>
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	<p>CAB INSTRUMENTATION</p> <p>The cab instrument panel include gauges, an LCD display, telltale indicator lamps, co</p>

Item # 9.

switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches will be identified by a label adjacent to each item. Actuation of the headlight switches will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward 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 will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance:

Voltmeter gauge (volts):

Low volts (11.8 VDC)

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

High volts (15.5 VDC)

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

Very low volts (11.3 VDC)

Red warning indicator on the information center with a steady alarm

Amber caution light on gauge assembly

Very high volts (16.0 VDC)

Red warning indicator on the information center with a steady alarm

Amber caution light on gauge assembly

Engine Tachometer (RPM)

Speedometer MPH (Major Scale), KM/H (Minor Scale)

Fuel level gauge (Empty - Full in fractions):

Low fuel (1/8 full)

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

Very low fuel (1/32 full)

Red caution indicator on the information center with steady alarm

Amber caution light on gauge assembly

Engine Oil pressure Gauge (PSI):

Low oil pressure to activate engine warning lights and alarms

Red caution indicator on the information center with steady alarm

Amber caution light on gauge assembly

Front Air Pressure Gauges (PSI):

Low air pressure to activate warning lights and alarm

Red warning indicator on the information center with a steady alarm

Amber caution light on gauge assembly

Rear Air Pressure Gauges (PSI):

Low air pressure to activate warning lights and alarm

Red warning indicator on the information center with a steady alarm

Amber caution light on gauge assembly

Transmission Oil Temperature Gauge (Fahrenheit):

High transmission oil temperature activates warning lights and alarm

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

Engine Coolant Temperature Gauge (Fahrenheit):

High engine temperature activates an engine warning light and alarms

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):

Low fluid (1/8 full)

Amber indicator light in gauge dial

All gauges will perform prove out at initial power-up to ensure proper performance.

Indicator Lamps

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

The following amber telltale lamps will be present:

Low coolant

Trac cntl (traction control) (where applicable)

Check engine

Check trans (check transmission)

Aux brake overheat (Auxiliary brake overheat)

Air rest (air restriction)

Caution (triangle symbol)

Water in fuel

DPF (engine diesel particulate filter regeneration)

Trailer ABS (where applicable)

Wait to start (where applicable)

HET (engine high exhaust temperature) (where applicable)

ABS (antilock brake system)

MIL (engine emissions system malfunction indicator lamp) (where applicable)

Side roll fault (where applicable)

Front air bag fault (where applicable)

The following red telltale lamps will be present:

Warning (stop sign symbol)

Seat belt

Parking brake

Stop engine

Rack down

The following green telltale lamps will be provided:

Left turn

Right turn

Battery on

The following blue telltale lamp will be provided:

High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm will be provided when a warning message is present.

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Audible pulsing tone caution alarm: A pulsing audible tone alarm (chime/chirp) will be provided whenever a caution message is present without a warning message being present.

Alarm silence: Any active audible alarm will be able to be silenced by holding the ignition switch at the top position for three (3) to five (5) seconds. For improved safety, silenced audible alarms will intermittently chirp every 30 seconds until the alarm condition no longer exists. The intermittent chirp will act as a reminder to the operator that a caution or warning condition still exists. Any new warning or caution condition will enable the steady or pulsing tones respectively.

Indicator Lamp and Alarm Prove-Out

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

Control Switches

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

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

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will 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 will 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 will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will 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 will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset function of cab alarm system.

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

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

Heater, defroster, and air conditioning control panel.

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

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

Parking brake control: An air actuated push/pull park brake control valve will be provided.

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

High idle engagement switch: A momentary rocker switch with integral indicator lamp will be provided. The switch will 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 will indicate when the high idle function is engaged.

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

Emergency switching will 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 will 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 will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will 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 will be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

Engine diagnostic port

Transmission diagnostic port

ABS diagnostic port

Roll sensor diagnostic port

Command Zone USB diagnostic port

ABS diagnostic switch (blink codes flashed on ABS telltale indicator)

Diesel particulate filter regeneration switch (where applicable)

Diesel particulate filter regeneration inhibit switch (where applicable)

Cab LCD Display

A digital four (4)-row by 20-character dot matrix display will be integral to the gauge panel. The display will be capable of showing simple graphical images as well as text. The display will be split into three (3) sections. Each section will have a dedicated function.

The upper left section will display the outside ambient temperature.
The upper right section will display the following, along with other configuration information:

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Odometer
Trip mileage
PTO hours
Fuel consumption
Engine hours

The bottom section will display INFO, CAUTION, and WARNING messages. Text messages will automatically activate to describe the cause of an audible caution or warning alarm. The LCD will be capable of displaying multiple text messages should more than one caution or warning condition exist.

0509511	Air Restriction Indicator, Imp/Vel, AXT, Dash CF, Enf MUX	AIR RESTRICTION INDICATOR A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.
0543751	Light, Do Not Move Apparatus	"DO NOT MOVE APPARATUS" INDICATOR A flashing red indicator light, located in the driving compartment, will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On." The same circuit that activates the Do Not Move Apparatus indicator will activate a pulsing alarm when the parking brake is released.
0509042	Messages, Open Dr/DNMT, Color Dsply,	DO NOT MOVE TRUCK MESSAGES Messages will be displayed on the Command Zone™, color display located within sight of the driver whenever the Do Not Move Truck light is active. The messages will designate the item or items not in the stowed for vehicle travel position (parking brake disengaged). The following messages will be displayed (where applicable): Do Not Move Truck DS Cab Door Open (Driver Side Cab Door Open) PS Cab Door Open (Passenger's Side Cab Door Open) DS Crew Cab Door Open (Driver Side Crew Cab Door Open) PS Crew Cab Door Open (Passenger's Side Crew Cab Door Open) DS Body Door Open (Driver Side Body Door Open) PS Body Door Open (Passenger's Side Body Door Open) Rear Body Door Open DS Ladder Rack Down (Driver Side Ladder Rack Down) PS Ladder Rack Down (Passenger Side Ladder Rack Down) Deck Gun Not Stowed Lt Tower Not Stowed (Light Tower Not Stowed) Fold Tank Not Stowed (Fold-A-Tank Not Stowed) Aerial Not Stowed (Aerial Device Not Stowed) Stabilizer Not Stowed Steps Not Stowed Handrail Not Stowed Any other device that is opened, extended, or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved will be displayed as a caution message after the parking brake is disengaged.
0611683	Switching, Cab Instrument Lower Console & Overhead, Membrane, Enforcer WiFi MUX	SWITCH PANELS The emergency light switch panel will have a master switch for ease of use plus individual switches for selective control. Each switch panel will contain eight (8) membrane-type switches each rated for one million (1,000,000) cycles. Panels containing less than eight (8) switch assignments will include non-functioning black appliques. The built-in switch panels will be located in the lower console or overhead console of the cab. Additional switch panel(s) will be located in the overhead position(s) above the windshield or in designated locations on the lower instrument panel layout. The switches will be membrane-type and also act as an integral indicator light. For quick, visual indication the entire surface of the switch will be illuminated white whenever back lighting is activated and illuminated green whenever the switch is active. An active illuminated switch will flash when interlock requirements are not met or device is actively being load managed. For ease of use, a two (2)-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed in the center of the switch. The label will allow light to pass through the letters for ease of use in low light conditions.
0802945	Wiper Control, 2-Speed with Intermittent, Stalk Control, Enf MUX	WIPER CONTROL For simple operation and easy reach, the windshield wiper control will be an integral part of the directional light lever located on the steering column. The wiper control will include high and low wiper speed settings, an intermittent wiper control and windshield washer switch. The control will have a "return to park" provision, which allows the wipers to return to the stored position when not in use.

0731813	Hour Meter, Aerial, Included in Information Centers, ASL, AAT, ASP	<p>HOURLMETER - AERIAL DEVICE</p> <p>The following aerial hour meter messages will be included in the information centers: Aerial Hours, that keeps track of the time the aerial device is in motion. Aerial PTO Hours, that keeps track of the time the aerial master switch is on and the aerial PTO is engaged.</p>
0002615	Switch, Aerial 12V Master	<p>AERIAL MASTER</p> <p>There will be a master switch for the aerial operating electrical system provided.</p>
0002617	PTO switch, w/light - aerial	<p>AERIAL PTO SWITCH</p> <p>A PTO switch for the aerial with indicator light will be provided.</p>
0814201	Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714	<p>INFORMATION CENTER</p> <p>An information center employing a 7.00" diagonal touch screen color LCD display will be encased in an ABS plastic housing.</p> <p>The information center will have the following specifications:</p> <ul style="list-style-type: none"> Operate in temperatures from -40 to 158 degrees Fahrenheit LCD optically bonded to hardened AR glass lens Five weather resistant user interface switches Grey with black accents Sunlight Readable Linux operating system Minimum of 1000nits rated display Display can be changed to an available foreign language <p>A LCD display integral to the cab gauge panel will be included as outlined in the cab instrumentation area.</p> <p>Programmed to read US Customary</p> <p>General Screen Design</p> <p>Where possible, background colors will be used to provide "At a Glance" vehicle information. If information provided on a screen is within acceptable limits, a green background will be used. If a caution or warning situation arises the following will occur:</p> <ul style="list-style-type: none"> An amber background/text color will indicate a caution condition A red background/text color will indicate a warning condition <p>The information center will utilize an "Alert Center" to display text messages for audible alarm tones. The text messages will be written to identify the item(s) causing the audible alarm to sound. If more than one (1) text message occurs, the messages will cycle every second until the problem(s) have been resolved. The background color for the "Alert Center" will change to indicate the severity of the "warning" message. If a warning and a caution condition occur simultaneously, the red background color will be shown for all alert center messages.</p> <p>A label for each button will exist. The label will indicate the function for each active button for each screen. Buttons that are not utilized on specific screens will have a button label with no text or symbol.</p> <p>Home/Transit Screen</p> <p>This screen will display the following:</p> <ul style="list-style-type: none"> Vehicle Mitigation (if equipped) Water Level (if the water level system includes compatible communications to the information center) Foam Level (if the foam level system includes compatible communications to the information center) Seat Belt Monitoring Screen Tire Pressure Monitoring (if equipped) Digital Speedometer Active Alarms <p>On Scene Screen</p> <p>This screen will display the following and will be auto activated with pump engaged (if equipped):</p> <ul style="list-style-type: none"> Battery Voltage Fuel Oil Pressure Coolant Temperature RPM Water Level (if equipped) Foam Level (if equipped) Foam Concentration (if equipped) Water Flow Rate (if equipped) Water Used (if equipped) Active Alarms <p>Virtual Buttons</p> <p>There will be four (4) virtual switch panel screens that match the overhead and lower lighting and HVAC switch panels.</p> <p>Page Screen</p> <p>The page screen will display the following and allow the user to progress into other screens for further functionality:</p> <ul style="list-style-type: none"> Diagnostics Faults Listed by order of occurrence Allows to sort by system Interlock Throttle Interlocks Pump Interlocks (if equipped) Aerial Interlocks (if equipped) PTO Interlocks (if equipped) Load Manager <p>A list of items to be load managed will be provided. The list will provide a description of</p>

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The lower the priority numbers the earlier the device will be shed should a low voltage condition occur.

The screen will indicate if a load has been shed (disabled) or not shed.

"At a glance" color features are utilized on this screen.

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Systems

Command Zone

Module type and ID number

Module Version

Input or output number

Circuit number connected to that input or output

Status of the input or output

Power and Constant Current module diagnostic information

Foam (if equipped)

Pressure Controller (if equipped)

Generator Frequency (if equipped)

Live Data

General Truck Data

Maintenance

Engine oil and filter

Transmission oil and filter

Pump oil (if equipped)

Foam (if equipped)

Aerial (if equipped)

Setup

Clock Setup

Date & Time

12 or 24 hour format

Set time and date

Backlight

Daytime

Night time

Sensitivity

Unit Selection

Home Screen

Virtual Button Setup

On Scene Screen Setup

Configure Video Mode

Set Video Contrast

Set Video Color

Set Video Tint

Do Not Move

The screen will indicate the approximate location and type of item that is open or is not stowed for travel. The actual status of the following devices will be indicated

Driver Side Cab Door

Passenger's Side Cab Door

Driver Side Crew Cab Door

Passenger's Side Crew Cab Door

Driver Side Body Doors

Passenger's Side Body Doors

Rear Body Door(s)

Ladder Rack (if applicable)

Deck Gun (if applicable)

Light Tower (if applicable)

Hatch Door (if applicable)

Stabilizers (if applicable)

Steps (if applicable)

Notifications

View Active Alarms

Shows a list of all active alarms including date and time of the occurrence is shown with each alarm

Silence Alarms - All alarms are silenced

Timer Screen

HVAC (if equipped)

Tire Information (if equipped)

Ascendant Set Up Confirmation (if equipped)

Button functions and button labels may change with each screen.

0734854

Collision Mitigation, Not Requested

0606247

Vehicle Data Recorder w/CZ Display
Seat Belt Monitor

VEHICLE DATA RECORDER

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

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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 will 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) will be provided on the Command Zone™ color display. The SBMS will 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 seat belt monitoring screen will become active on the Command Zone color display when: The home screen is active:

- and there is any occupant seated but not buckled or any belt buckled with an occupant.
- and there are no other Do Not Move Apparatus conditions present. As soon as all Do Not Move Apparatus conditions are cleared, the SBMS will be activated.
- The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.

0696438

Antenna Mount, Custom Chassis,
Cable Routed to Radio Box

RADIO ANTENNA MOUNT

There will be two (2) standard 1.125", 18 thread antenna-mounting base(s) installed right side cab roof on the cab roof with high efficiency, low loss, coaxial cable(s) routed to the radio box. A weatherproof cap will be installed on the mount.

0816158

Camera, Pierce, LS Mux, RS, LS, R,
Cameras, AHD

VEHICLE CAMERA SYSTEM

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

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

The camera images will be displayed on the left side vehicle information center display. Audio from the microphone on the rear camera will be emitted by an amplified speaker with volume control located behind the driver seat.

The following components will be included:

- One (1) 1080P Rear Camera
- Two (2) 1080P Side Cameras
- All necessary cables

0814861

Camera, Switcher, Pierce, 4 channel,
AHD, CVBS

Camera Switcher

There will be one (1), HMU318 HD Image Processor multiplexer, 4 channel camera video switcher with remote control provided to allow single, dual, triplex, quad, trefoil, Y split and PIP view display modes on the vehicle information center display provided. The switcher will have one (1) CVBS, Composite Video Blanking and Sync, standard Definition video output and one (1) AHD, Analog High Definition video output for High Definition cameras.

0511071

Guard, 4-Way, Rear Vision Camera

VEHICLE CAMERA GUARD

There will be one (1) aluminum treadplate guard(s) fastened over the vehicle camera(s) located over back up camera rear of truck..

0890416

Pierce Command Zone, Advanced
Electronics & Control System,
Enforcer, WiFi CZT

ELECTRICAL POWER CONTROL SYSTEM

The primary power distribution will be located forward of the officer's seating position and be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Additional electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible.

Distribution centers located throughout the vehicle will contain battery powered studs for supplying customer installed equipment thus providing a lower cost of ownership.

Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent w

component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting). When required, automatic fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a current rating of 125 percent of the maximum current for which the circuit is protected.

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Solid-State Control System

A solid-state electronics based control system will be utilized to achieve advanced operation and control of the vehicle components. A fully computerized vehicle network will consist of electronic modules, electronic control modules to include a see through housing, a power indicator, a status indicator and circuit indicators located near their point of use to reduce harness lengths and improve reliability. The control system will comply with SAE J1939-11 recommended practices. The control system will operate as a master-slave system whereas the main control module instructs all other system components. The system will contain patented Mission Critical software that maintains critical vehicle operations in the unlikely event of a main controller error. The system will utilize a Real Time Operating System (RTOS) fully compliant with OSEK/VDX™ specifications providing a lower cost of ownership.

For increased reliability and simplified use the control system modules will include the following attributes:

Green LED indicator light for module power

Red LED indicator light for network communication stability status

Control system self test at activation and continually throughout vehicle operation

No moving parts due to transistor logic

Software logic control for NFPA mandated safety interlocks and indicators

Integrated electrical system load management without additional components

Integrated electrical load sequencing system without additional components

Customized control software to the vehicle's configuration

Factory and field programmable to accommodate changes to the vehicle's operating parameters

To assure long life and operation in a broad range of environmental conditions, the solid-state

control system modules will meet the following specifications:

Module circuit board will meet SAE J771 specifications

Operating temperature from -40 degrees Celsius to +70 degrees Celsius

Storage temperature from -40 degrees Celsius to +70 degrees Celsius

Vibration to 50g

IP67 rated enclosure (Totally protected against dust and also protected against the effect of

temporary immersion between 15 centimeters and one (1) meter)

Operating voltage from eight (8) volts to 32 volts DC

The main controller will activate status indicators and audible alarms designed to provide warning of problems before they become critical.

Circuit Protection and Control Diagram

Copies of all job-specific, computer network input and output (I/O) connections will be provided with each chassis. The sheets will indicate the function of each module connection point, circuit protection information (where applicable), wire numbers, wire colors and load management information.

On-Board Electrical System Diagnostics

The on-board information center will include the following diagnostic information:

Text description of active warning or caution alarms

Simplified warning indicators

Amber caution indication with intermittent alarm

Red warning indication with steady tone alarm

Advanced diagnostic feature will be provided in this control system. From the Command Zone display or connected wireless device, these features allow the user to monitor the real-time status of every input or output on the vehicle. It also allows users logged in as an administrator to force on inputs or outputs to assist the troubleshooting process.

TCU Module with WiFi

An in cab module will provide WiFi wireless interface and data logging capability. The WiFi interface will comply with IEEE 802.11 b/g/n capabilities while communicating at 2.4 Gigahertz. The module will communicate through a black WiFi antenna allowing a line of site communication range of up to 300 feet with a roof mounted antenna.

The module will transmit a password protected web page to a WiFi enabled device (i.e. most smart phones, tablets or laptops) allowing two levels of user interaction. The firefighter level will allow vehicle monitoring of the vehicle and firefighting systems on the apparatus. The technician level will allow diagnostic access to inputs and outputs installed on the Command Zone™, control and information system.

The TCU capability will record faults from the engine, transmission, ABS and Command Zone™, control and information systems as they occur. No other data will be recorded at the time the fault occurs. The data TCU will provide up to 2 Gigabytes of data storage.

The TCU will provide a means to download the TCU information and update software in the device.

Indicator Light and Alarm Prove-Out System

A system will be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

Voltage Monitor System

A voltage monitoring system will be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system will provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm will activate if the system falls below 11.8 volts DC for more than two (2) minutes.

Dedicated Radio Equipment Connection Points

There will be three (3) studs provided in the primary power distribution center located in front of the officer for two-way radio equipment. The studs will consist of the following:

12-volt 40-amp battery switched power

12-volt 60-amp ignition switched power

12-volt 60-amp direct battery power

There will also be a 12-volt 100-amp ground stud located in or adjacent to the power distribution center.

EMI/RFI Protection

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated a

conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

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The apparatus will have the ability to operate in the electromagnetic environment typical in fire ground operations to ensure clean operations. The electrical system will meet, with exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE J551/2 and SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter requirements. Component and partial (incomplete) vehicle testing is not adequate as overall vehicle design can impact test results and thus is not acceptable by itself. EMI/RFI susceptibility will be controlled by applying appropriate circuit designs and shielding. The electrical system will be designed for full compatibility with low-level control signals and high-powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.

0896456 Prognostics, Electrical System

ELECTRICAL SYSTEM PROGNOSTICS

There will be a software based vehicle tool provided to predict remaining life of the vehicles critical fluid and events.

The system will send automatic indications to the Command Zone™ information center and/or wireless enabled devices to proactively alert of upcoming service intervals.

Prognostics will include the following:

- Engine oil and filter
- Transmission oil and filter

0816093 ClearSky Telematics, Remote Fleet & On-scene Management, AT&T Commercial

TELEMATICS SYSTEM

Your vehicle will include a cellular-based vehicle telematics system including a telematic control unit with external cellular Wi-Fi and GPS antenna. Pierce will provide access to a web-based user interface portal that will allow users to access vehicle data collected as part of the system, allow users to configure monitoring tools, provide a global view of the location of each vehicle that has the system, provide a summary of fleet data, etc. The web-based user interface portal or certain features thereof may be provided on a subscription basis.

The telematic control unit will be fully integrated into the electrical system of the vehicle, will monitor the vehicle through the CAN data bus, and will transmit data through a secure AT&T 4G LTE cellular connection, and be provided with a 3 year subscription.

The web-based user interface portal will provide, among other features:

- User defined interval notifications
- User defined fault alerts
- Remote access to Command Zone™ diagnostics
- Vehicle analytics and activity monitoring
- Vehicle system status

The system is activated while building your vehicle and thereafter remains active for a 60-day grace period starting when your vehicle ships from the factory. This means that the system is active at the time of factory acceptance and during the 60-day grace period. By selecting this option, it is agreed that use of the system and the web-based user interface portal will be subject to the terms set forth in the Data Systems Agreement referenced at <https://www.piercemfg.com/privacy-statement>. Customers will be provided with an initial login at the time of factory acceptance to verify performance of the system and the web-based user interface portal. The term of the subscription, if any, will begin when the vehicle ships from the factory. If customers do not log into the web-based user interface portal and confirm acceptance of the terms before the 60-day grace period ends, the system will be deactivated, and no new data will be collected or retained Pierce. Reactivation can be coordinated through the customer's authorized Pierce Dealer.

ELECTRICAL

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

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

All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.

Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body.

Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.

Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug).

All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.

All electrical terminals in exposed areas will 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, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test will 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 will be recorded and provided to the purchaser at time of delivery.

Item # 9.

0079211

Batteries, (6) Stryten/Exide Grp 31, 950 CCA each, Threaded Stud

BATTERY SYSTEM

There will be six (6) 12 volt Stryten/Exide®, Model 31S950X3W, batteries that include the following features will be provided:

950 CCA, cold cranking amps

190 amp reserve capacity

High cycle

Group 31

Rating of 5700 CCA at 0 degrees Fahrenheit

1140 minutes of reserve capacity

Threaded stainless steel studs

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

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

0008621

Battery System, Single Start, All Custom Chassis

BATTERY SYSTEM

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

MASTER BATTERY SWITCH

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

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

0002698

Battery Compartment, Saber/Enforcer

BATTERY COMPARTMENTS

Batteries will 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 will have reinforced sides. The battery compartments will 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 will be of a non-corrosive material. All bolts and nuts will be stainless steel. Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound.

Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound.

JUMPER STUDS

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

0812586

Charger, Sngl Sys, Kussmaul, Chief 091-266-12-60, 60 Amp

BATTERY CHARGER

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

0814869	Location, Cab, Charger, Behind Driver Seat	The battery charger will be located in the cab behind the driver seat.	Item # 9.
0813791	Panel, Charger Display, Kussmaul, 091-94-12, Batt Dir	REMOTE CONTROL PANEL - BATTERY CHARGER There will be a Kussmaul™, Model 091-94-12 universal display panel included. It will be wired directly to the chassis batteries.	
0814939	Location, Cab, Ind/Remote, Driver's Seat Riser	The battery charger indicator will be located on the driver's seat riser.	
0016857	Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	AUTO EJECT FOR SHORELINE There will be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the apparatus. The shoreline inlet(s) will include red weatherproof flip up cover(s). There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting. The shoreline(s) will be connected to the battery charger. There will be a mating connector body supplied with the loose equipment. There will be a label installed near the inlet(s) that state the following: Line Voltage Current Rating (amps) Phase Frequency	
0026800	Shoreline Location	The shoreline receptacle will be located on the driver side exterior of cab, behind crew cab door.	
0647728	Alternator, 430 amp, Delco Remy 55SI	ALTERNATOR A Delco Remy®, Model 55SI, alternator will be provided. It will have a rated output current of 430 amps, as measured by SAE method J56. The alternator will 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 will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.	

ELECTRONIC LOAD MANAGER

An electronic load management (ELM) system will be provided that monitors the vehicle electrical system, automatically reducing the electrical load in the event of a low voltage condition and automatically restoring the shed electrical loads when a low voltage condition expires. This ensures the integrity of the electrical system.

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For improved reliability and ease of use, the load manager system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load management tasks. Load management systems which require additional components will not be allowed.

The system will include the following features:

System voltage monitoring.

A shed load will remain inactive for a minimum of five minutes to prevent the load from cycling on and off.

Sixteen available electronic load shedding levels.

Priority levels can be set for individual outputs.

High Idle to activate before any electric loads are shed and deactivate with the service brake.

If enabled:

"Load Man Hi-Idle On" will display on the information center.

Hi-Idle will not activate until 30 seconds after engine start up.

Individual switch "on" indicator to flash when the particular load has been shed.

The information center indicates system voltage.

The information center, where applicable, includes a "Load Manager" screen indicating the following:

Load managed items list, with priority levels and item condition.

Individual load managed item condition:

ON = not shed

SHED = shed

SEQUENCER

A sequencer will be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation will allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator.

For improved reliability and ease of use, the load sequencing system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load sequencing tasks. Load sequencing systems which require additional components will not be allowed.

Emergency light sequencing will operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights will be activated one by one at half-second intervals. Sequenced emergency light switch indicators will flash while waiting for activation.

When the emergency master switch is deactivated, the sequencer will deactivate the warning light loads in the reverse order.

Sequencing of the following items will also occur, in conjunction with the ignition switch, at half-second intervals:

Cab Heater and Air Conditioning

Crew Cab Heater (if applicable)

Crew Cab Air Conditioning (if applicable)

Exhaust Fans (if applicable)

Third Evaporator (if applicable)

0783157

Headlights, Rect LED, JW Spkr Evo 2, Heat, AXT/DCF/Enf/Imp/Sab/Vel

HEADLIGHTS

There will 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 will contain a part number 055***1 low beam module

the inside light on each side will contain a part number 055***1 high beam module

the headlights to include chrome bezels

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

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

0625953

Light, Directional, Wln 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts, Enf/Sab

DIRECTIONAL LIGHTS

There will be two (2) Whelen 600 series, LED combination directional/marker lights provided. The lights will be located on the outside cab corners, next to the headlights.

The color of the lenses will be clear.

0620054

Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts

INTERMEDIATE LIGHT

There will 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 will double as a turn signal and marker light.

0647802

Lights, Clearance/Marker/ID, Front, P25 LED 5 Lts, Saber FR/Enforcer

CAB CLEARANCE/MARKER/ID LIGHTS

There will 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 will be installed in the center of the cab above the windshield.

Two (2) amber LED clearance lights will be installed, one (1) on each outboard side of the cab above the windshield.

0625210	Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED, AXT/Enf	<p>FRONT CAB SIDE CLEARANCE/MARKER LIGHTS</p> <p>There will be two (2) Truck-Lite®, Model 19036Y, amber LED lights installed to the outside of the cab with a chrome wrap around bezel, one (1) on each side of the cab.</p> <p>The lights will activate as additional directional lights with the corresponding directional lights.</p>
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0511569	Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts	<p>REAR CLEARANCE/MARKER/ID LIGHTING</p> <p>There will be three (3) LED identification lights located at the rear installed per the following:</p> <ul style="list-style-type: none"> 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 <p>There will 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:</p> <ul style="list-style-type: none"> 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 <p>There will 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:</p> <ul style="list-style-type: none"> 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 <p>The lights will be mounted with no guard.</p> <p>There will 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.</p> <p>There will 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.</p> <p>Per FMVSS 108 and CMVSS 108 requirements.</p>
0602938	Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body	<p>MARKER LIGHTS</p> <p>There will be one (1) pair of amber and red LED marker lights with rubber arm, located at the rear most lower corner of the body. The amber lens will face the front and the red lens will face the rear of the truck.</p> <p>These lights will be activated with the running lights of the vehicle.</p>
0804514	Lights, Tail, WIn M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg	<p>REAR FMVSS LIGHTING</p> <p>The rear stop/tail and directional lighting included in the rear tail light housing will include the following:</p> <ul style="list-style-type: none"> 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 will be set to Steady On (Arrow) flash pattern. <p>The lens color(s) to be clear.</p>
0806466	Lights, Backup, WIn M62BU, LED, For Tail Lt Housing	<p>There will be two (2) Whelen Model M62BU, LED backup lights provided in the tail light housing.</p>
0889577	Bracket, License Plate & Light, P25 LED, Stainless Brkt	<p>LICENSE PLATE BRACKET</p> <p>One (1) license plate bracket constructed of stainless steel will be provided at the rear of the apparatus.</p> <p>One (1) white LED light with chrome housing will be provided to illuminate the license plate. A stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.</p>
0556842	Bezels, WIn, (2) M6 Chrome Pierce, For mtg (4) WIn M6 lights	<p>LIGHTING BEZEL</p> <p>There will be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.</p>
0589905	Alarm, Back-up Warning, PRECO 1040	<p>BACK-UP ALARM</p> <p>A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.</p>

0769420	Lights, Perimeter Cab, Amdor AY-LB-12HW020 LED 4Dr	<p>CAB PERIMETER SCENE LIGHTS</p> <p>There will be four (4) Amdor, Model AY-LB12HW020, 350 lumens each, 20.00" white LED lights provided, one (1) for each cab door.</p> <p>These lights will 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.</p>
0769564	Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 1lt	<p>PUMP HOUSE PERIMETER LIGHTS</p> <p>There will be one (1) Amdor, Model AY-LB12HW020, 350 lumens, 20.00" LED weatherproof strip light with bracket provided under the passenger's side pump panel running board.</p> <p>If the combination of options in the vehicle does not permit clearance for a 20.00" light, a 12.00" version of the Amdor light will be installed.</p> <p>The light will be activated when the battery switch is on, and controlled by the same means as the body perimeter lights.</p>
0768765	Lights, Perimeter Body, Amdor AY-LB-12HW020 LED 2lts, Turntable Access	<p>BODY PERIMETER SCENE LIGHTS</p> <p>There will be two (2) Amdor, Model AY-LB12HW020, 350 lumens, 20.00" long, with white LED's, 12 volt lights provided.</p> <p>The lights will be mounted in the following locations:</p> <ul style="list-style-type: none"> One (1) light under the driver's side turntable access steps One (1) light under the passenger's side turntable access steps <p>The perimeter scene lights will be activated when the battery switch is on and the parking brake is applied.</p>
0896454	Enhanced Software for Perimeter Lts	<p>ENHANCED SOFTWARE FOR PERIMETER LIGHTS</p> <p>All perimeter lights will be deactivated when the parking brake is released unless alternate control is selected.</p> <p>The cab and crew cab perimeter lights will remain on for ten (10) seconds for improved visibility after the doors closed.</p>
0589378	Lights, Step, P25 LED, Aerial With Pump, Ign, Prk Brk Set	<p>STEP LIGHTS</p> <p>There will be two (2) white LED step lights provided, one (1) on each side of the front body.</p> <p>These step lights will be actuated when the ignition switch is on and the parking brake is set.</p> <p>All steps on the apparatus will be illuminated per the current edition of applicable NFPA standards.</p>
0776995	Light, Roof Mt, HiViz, FT-MB-12-*-* , 17"	<p>12 VOLT LIGHTING</p> <p>There will be two (2) HiViz Model FT-MB-12-* , 2.56" high x 17.65" long x 3.31" deep 6,336 lumens 12 volt DC LED light(s) with with a combination of flood and spot optics provided on the cab roof located, one (1) on the driver's side and one (1) on the passenger's side under the lightbars.</p> <p>The painted parts of the light housing and brackets to be black.</p> <p>The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the left side pump panel.</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0768059	Lights, Wln, PCPSM2* Pioneer, 12 VDC, 2nd	<p>12 VOLT DC SCENE LIGHTS</p> <p>There will be one (1) Whelen® Model PCPSM 2* , 16,000 lumens 12 volt DC powered light(s) with white LEDs installed on the cab located, behind passengers cab door.</p> <p>The surface mount housing(s) will be provided with a black cover.</p> <p>The light(s) will be activated by a switch at the driver's side switch panel and by a switch at the left side pump panel.</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0768061	Lights, Wln, PCPSM2* Pioneer, 12 VDC, 1st	<p>12 VOLT DC SCENE LIGHTS</p> <p>There will be one (1) Whelen® Model PCPSM 2* , 16,000 lumens 12 volt DC powered light(s) with white LEDs installed on the cab located, behind driver cab door.</p> <p>The surface mount housing(s) will be provided with a black cover.</p> <p>The light(s) will be activated by a switch at the driver's side switch panel and by a switch at the left side pump panel.</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0757717	Lights, HiViz FT-B-65-* LED, 2nd	<p>12 VOLT LIGHTING</p> <p>There will one (1) HiViz Model FT-B-65-* , 18,849.6 effective lumens 2.06" high x 65.23" long x 2.45" deep 12 volt DC light(s) with white LEDs and a combination of spot, and flood optics installed on the apparatus located, on top of RS3 catwalk, centered.</p> <p>The painted parts of the light housing and brackets to be black.</p> <p>The light(s) will be controlled by the same control that has been selected for the passenger's side scene light(s).</p> <p>The light(s) may be load managed when the parking brake is applied.</p>

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0757722	Lights, HiViz FT-B-65-* LED, 1st	<p>12 VOLT LIGHTING</p> <p>There will one (1) HiViz Model FT-B-65-*, 18,849.6 effective lumens 2.06" high x 65.23 2.45" deep 12 volt DC light(s) with white LEDs and a combination of spot, and flood op installed on the apparatus located, on top of LS3 catwalk, centered.</p> <p>The painted parts of the light housing and brackets to be black.</p> <p>The light(s) will be controlled by the same control that has been selected for the driver's side scene light(s).</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0898617	Lights, Hose Bed, Sides, Dual Strips, 45 Ends	<p>HOSE BED LIGHTS</p> <p>There will be two (2) sets of 12 volt DC light strips with white LEDs provided to illuminate the hose bed and under the turntable per the following:</p> <p>One (1) set of lights installed on the left side of the hose bed.</p> <p>One (1) set of lights installed on the right side of the hose bed.</p> <p>There will be a 16 gauge bright stainless steel overhead cover with 45 degreed ends provided over the lights to protect the lights from the hose and the hose from damaging snags.</p> <p>The lights will be activated by a cup switch at the rear of the apparatus no more than 72.00" from the ground.</p>
0827069	Lights, Rear Scene, Wln, MPB* Micro Pioneer LED, 2Lts	<p>REAR SCENE LIGHTS</p> <p>There will be two (2) Whelen®, Model MPB*, 12 volt DC LED lights with stud bail mount provided at the rear of the apparatus. The painted parts to be black.</p> <p>The lights will be controlled by a switch at the driver's side switch panel, by a switch at the driver's side pump panel and by a cup switch at the driver's side rear bulkhead.</p>
0709438	Lights, Walk Surf, FRP Flood, LED	<p>WALKING SURFACE LIGHT</p> <p>There will be Model FRP, 4.00" round black 12 volt DC LED floodlight(s) with bolt mount provided to illuminate the entire designated walking surface on top of the body.</p> <p>The light(s) will be activated when the body step lights are on.</p>
0622110	Switch, Rocker Style, Load Manager, Mux Chassis	<p>SWITCH, ROCKER STYLE</p> <p>A rocker style switch will be provided for the Load Manager.</p>
0793399	Aerial, HD Ladder 107' ASL Tandem, Alum Body	
0554269	Body Skirt Height, 18"	
0601006	Tank, Water, 500 Gallon, Poly, Ascendant Tandem Axle, PAL, Notched	<p>WATER TANK</p> <p>It will have a capacity of 500 gallons and will be constructed of polypropylene plastic in a rectangular shape.</p> <p>The joints and seams will be nitrogen welded inside and out.</p> <p>The tank will be baffled in accordance with the current edition of applicable NFPA standards.</p> <p>The baffles will have vent openings at both the top and bottom of each baffle to permit movement of air and water between compartments.</p> <p>The longitudinal partitions will be constructed of 0.38" polypropylene plastic and extend from the bottom of the tank through the top cover to allow positive welding.</p> <p>The transverse partitions extend from 4.00" off the bottom to the underside of the top cover.</p> <p>All partitions interlock and will be welded to the tank bottom and sides.</p> <p>The tank top will be constructed of 0.50" polypropylene.</p> <p>It will be recessed 0.38" and will be welded to the tank sides and the longitudinal partitions.</p> <p>It will be supported to keep it rigid during fast filling conditions.</p> <p>Construction will include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions.</p> <p>Two of the dowels will be drilled and tapped (0.50" diameter, 13.00" deep) to accommodate lifting eyes.</p> <p>A sump will be provided at the bottom of the water tank. The sump will include a drain plug and the tank outlet.</p> <p>Tank will be installed in a fabricated "cradle" assembly constructed of structural steel.</p> <p>Sufficient crossmembers are provided to properly support bottom of tank.</p> <p>Crossmembers are constructed of steel bar channel or rectangular tubing.</p> <p>Tank "floats" in cradle to avoid torsional stress caused by chassis frame flexing.</p> <p>Rubber cushions, 0.50" thick x 3.00" wide, will be placed on all horizontal surfaces that the tank rests on.</p> <p>Stops are provided to prevent an empty tank from bouncing excessively while moving vehicle.</p> <p>Tank mounting system is approved by the manufacturer.</p>
0003405	Overflow, 4.00" Water Tank, Poly	<p>Fill tower will be constructed of 0.50" polypropylene and will be a minimum of 8.00" wide x 14.00" long.</p> <p>Fill tower will be furnished with a 0.25" thick polypropylene screen and a hinged cover.</p> <p>An overflow pipe, constructed of 4.00" schedule 40 polypropylene, will be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle.</p>
0028104	Foam Cell Required	

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0083450	Notch, Poly Tank, Location	There will be one (1) notch(es) provided in the poly water tank rear of tank for clearing support beam.
0553729	Not Required, Restraint, Water Tank, Heavy Duty	
0003429	Not Required, Direct Tank Fill	
0751577	Hose Bed, Aluminum, Trough Style, 2G Aerial	<p>HOSE BED</p> <p>The hose bed will be fabricated of 0.125" thick 5052-H32 aluminum with a tensile strength of 31,000.</p> <p>The sides of the hose bed will not form any portion of the fender compartments.</p> <p>The hose bed will be located ahead of the ladder turntable between the tank and side body compartments.</p> <p>Hose removal will be at the rear of the body via "chutes" under the turntable on the right side.</p> <p>Each chute will be enclosed with a full height smooth aluminum door. There will be a SouthCo C2 chrome raised trigger lever latch and a pneumatic cylinder at the top of the door (if applicable).</p> <p>The hose bed flooring will consist of removable aluminum grating with a top surface that is corrugated to aid in hose aeration.</p> <p>The grating slats will be 0.50" wide x 4.50" long with spacing between the slats for hose ventilation.</p>
0723547	Painted Hose Bed/Cargo Area	The hose bed/cargo area interior will be painted to match the lower body color.
0003491	Hose Bed Capacity 1000' of 5.00", Ascendant, PAP, PAL	Hose capacity will be a minimum of 1000' of 5.00" large diameter hose.
0591017	Hose Restraint, Hose Bed, Aerial, Front Velcro Strap, Top	<p>AERIAL HOSE BED HOSE RESTRAINT</p> <p>The hose in the hose bed will be restrained by one (1) black nylon Velcro® strap at the top of the hose bed. The strap will be installed to the top of the hose bed side sheets.</p>
0076724	Running Boards, 12.75" Deep, Bustin Bar Grating, Type N	<p>RUNNING BOARDS</p> <p>The running boards will be fabricated of aluminum grating, with a serrated top edge, supported by structural steel angle assemblies bolted to the chassis frame rails.</p> <p>Running boards will be 12.75" deep and are spaced away from the body .50".</p> <p>A riser will be installed on the body to protect the painted surface from damage by stepping on the running boards.</p> <p>The entire outer edge of the stepping surface will be covered with bright aluminum treadplate.</p>
0735733	Turntable Steps-Morton Cass, Swing Down,LS/RS,Ascend TA,PAL,PAP,Handhld Cut Outs	<p>TURNTABLE STEPS</p> <p>Steps to access the turntable from the left and right side will be provided just behind the compartmentation. The bottom step to be a flip down, stirrup step. The bottom step will have a step height not exceeding 24.00" from the ground to the top surface of the step at any time. All steps will have a height no greater than 14.00" from top surface to top surface.</p> <p>The steps will be a swing-down design, with the stepping area made of Morton Tread-Grip® channel.</p> <p>The stepwell will be lined with bright aluminum treadplate to act as scuffplates.</p> <p>The steps will be connected to the "Do Not Move Truck" indicator.</p> <p>A knurled aluminum handrail will be provided on each side of the access steps.</p> <p>A hand hold will be provided in the left and right side of each set of access steps.</p>
0892656	Lights, Step (6), P25 LED, Each Side	<p>STEP LIGHTS</p> <p>There will be three (3) white LED step lights with chrome housing provided for each set of aerial turntable access steps.</p> <p>In order to ensure exceptional illumination, each light will 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.</p> <p>The step lights will be activated when the parking brake is applied.</p>
0690023	Wall, Rear, Smooth Aluminum	<p>SMOOTH ALUMINUM REAR WALL</p> <p>The rear wall will be smooth aluminum.</p>
0029503	Tow Eyes (2), Painted Lower Job Color, Aerial	<p>TOW EYES</p> <p>Two (2) rear painted tow eyes will be located at the rear of the apparatus and will be mounted directly to the torque box. The inner and outer edges of the tow eyes will be radiused. Each tow eye will be rated for 9000lb and painted to match the lower job color.</p>

COMPARTMENTATION

Compartmentation will be fabricated of 0.125" 5052 aluminum. The side compartments integral assembly with the rear fenders. Fully enclosed rear wheel housings will be provided to prevent rust pockets and for ease of maintenance. Due to the severe loading requirements of the aerial, a method of compartment body support suitable for the intended load will be provided. The backbone of the support system will be the chassis frame rail, which is the strongest component of the chassis and is designed for sustaining maximum loads. A support system will be used which will incorporate a floating substructure by using Neoprene Elastomer isolators to allow the body to remain rigid while the chassis goes through its natural flex. The isolators will have a broad range of proven viability in vehicular applications, be of a fail safe design, and allow for all necessary movement in three (3) transitional and rotational modes. This will result in a 500 lb equipment rating for each lower compartment of the body. The compartmentation in front of the rear axle will include a 3.00" steel support assemblies which are bolted to the chassis frame rails. A steel framework will be mounted to the body above these support assemblies connected to the support assemblies with isolators. There will be one (1) support assembly mounted to each chassis frame rail. The compartmentation behind the rear axle will include 3.00" steel support assemblies which are bolted to the chassis frame rails and extend underneath to the outside edge of the body. The support assembly will be coated to isolate the dissimilar metals before it is bolted to the body. There will be one (1) support assembly mounted to each chassis frame rail. Compartment flooring will be of the sweep out design with the floor higher than the compartment door lip. The compartment door openings are framed by flanging the edges in 1.75" and bending out again 0.75" to form an angle. Drip protection is provided over all door openings by means of bright aluminum extrusion or formed bright aluminum treadplate. Side compartment tops will be covered with bright aluminum treadplate with a 1.00" rolled over edge on the front, rear and outward side. The covers are fabricated in one (1) piece and have the corners welded. A bright aluminum treadplate cover will be provided on the front wall of each side compartment. All screws and bolts which protrude into a compartment will have acorn nuts at the ends to prevent injury. The body design has been fully tested. Proven engineering and test techniques such as finite element analysis, model analysis, stress coating and strain gauging have been performed with special attention given to fatigue life and structural integrity of the compartment body and substructure.

Item # 9.

AGGRESSIVE WALKING SURFACE

All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards.

LOUVERS

All body compartments will have a minimum of one (1) set of louvers stamped into a wall to provide the proper airflow inside the compartment and to prevent water from dripping into the compartment. These louvers will be formed into the metal and not added to the compartment as a separate plate.

0063695

Compt, LS F/H F/D, Roll Drs, w/o
Chute, Ascendant Tandem, 105', 100
HAL**LEFT SIDE COMPARTMENTATION**

A full height roll-up door compartment ahead of the rear wheels will be 41.75" wide x 64.00" high x 24.25" deep inside with an clear door opening of 38.75" wide x 56.38" high. One (1) roll-up door compartment above the fender compartments and over the rear axles will be provided. The compartment will be 72.13" wide x 33.25" high x 24.25" deep inside with a clear door opening of 63.75" wide x 25.50" high. A compartment with a single pan smooth aluminum painted to match the upper body color door will be located above the front stabilizer. The door will be hinged on the rear body side with a SouthCo C2 chrome raised trigger lever latch. The compartment will be approximately 18.00" wide x 23.00" high x 24.25" deep with a door opening of approximately 12.00" wide x 15.75" high.

0063727

Compt, LS Turntable, F/H F/D, Roll
Dr & Lift Dr, Ascendant Tandem, 105'

A full height roll-up door compartment behind the rear wheels will be 43.75" wide x 49.25" high x 21.25" deep. The clear door opening will be 40.75" wide x 41.62" high. One (1) lift-up door compartment below the turntable will be provided. The compartment will be 39.38" wide x 18.38" high x 21.25" deep inside with a door opening of 35.00" wide x 14.88" high.

0023672

Compt, IPO Stairs, Not Required, LS

0063733

Compt, RS F/H, Roll Drs, Ascendant
Tandem, 105 HDL, 100 HAL**RIGHT SIDE COMPARTMENTATION**

A full height roll-up door compartment ahead of the rear wheels will be 41.75" wide x 64.00" high x 24.25" deep inside the lower 29.75" and 12.00" deep inside the upper portion with a clear door opening of 38.75" wide x 55.38" high. One (1) roll-up door compartment will be provided above the fender compartments and over the rear axles. The compartment will be 72.13" wide x 33.25" high x 12.00" deep inside with a clear door opening of 63.75" wide x 24.50" high. A compartment with a single pan polished stainless steel door will be located above the front stabilizer. The door will be hinged on the rear body side with a SouthCo C2 chrome raised trigger lever latch. The compartment will be 18.00" wide x 23.00" high x 12.00" deep with a door opening of 12.00" wide x 15.75" high.

0035382

Compt, RS Turntable, F/H, Roll Dr &
Lift Dr, Ascendant Tandem, 105 HDL

A full height roll-up door compartment behind the rear wheels will be approximately 43.75" wide x 49.25" high x 21.25" deep inside the lower 29.75" and 12.00" deep in the upper portion. The clear door opening will be approximately 40.75" wide x 41.62" high. One (1) compartment below the turntable with a lift-up door will be approximately 39.38" wide x 18.38" high x 12.00" deep inside with a door opening of approximately 35.00" wide x 14.88" high.

0601969	Doors, Gortite Rollup/Lap, Aluminum, Side Compartments, 105'HDL/Ascendant Tandem	<p>SIDE COMPARTMENT ROLLUP DOORS</p> <p>There will be six (6) compartment doors installed on the side compartments. The Gortite doors will be double faced aluminum construction and painted one (1) color to match the lower portion of the body.</p> <p>Lath sections will be an interlocking rib design and will be individually replaceable without complete disassembly of door.</p> <p>Between each slat at the pivoting joint will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals will allow door to operate in extreme temperatures ranging from plus 180 to minus 40 degrees Fahrenheit. Side, top and bottom seals will be provided to resist ingress of dirt and weather and be made of Santoprene. All hinges, barrel clips and end pieces will be nylon 66. All nylon components will withstand temperatures from plus 300 to minus 40 degrees Fahrenheit.</p> <p>A polished stainless steel lift bar to be provided for each roll-up door. Lift bar will be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge will be supplied over lift bar for additional area to aid in closing the door.</p> <p>Doors will be constructed from an aluminum box section. The exterior surface of each slat will be flat. The interior surfaces will be concave to provide strength and prevent loose equipment from jamming the door from inside.</p> <p>To conserve space in the compartments, the spring roller assembly will not exceed 3.00" in diameter.</p> <p>The header for the rollup door assembly will not exceed 4.00".</p> <p>A heavy-duty magnetic switch will be used for control of open compartment door warning lights.</p> <p>SIDE COMPARTMENT LAP DOORS</p> <p>All hinged compartment doors will be lap style with double panel construction and fabricated of 0.09" 5052H32 aluminum. Doors will be a minimum of 1.50" thick. To provide additional door strength, a "C" section reinforcement will be installed between the outer and interior panels. Doors will 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 will be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment.</p> <p>All compartment doors will have polished stainless steel continuous hinge with a pin diameter of 0.25", that is bolted or screwed on with stainless steel fasteners. A dielectric substance will be applied to each hinge fastener.</p> <p>All door lock mechanisms will be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area.</p> <p>Doors will be latched with recessed, polished stainless steel D-ring handles and Eberhard 106 locks.</p> <p>To prevent corrosion caused by dissimilar metals, compartment door handles will not be attached to outer door panel with screws. A rubber gasket will be provided between the D-ring handle and the door.</p>
0540787	Stabilizer Compartment, Modified for 18" Stabilizer Penetration	<p>BODY MODIFICATION FROM STANDARD</p> <p>The compartment above the stabilizers (if applicable) will be decreased due to deeper stabilizer depth. The height of the compartment will decrease 4.00" and the compartment door will move up 4.00" higher. The stabilizer frame opening as well as the stabilizer pan will be increased in height by 6.00".</p>
0556162	Not Req'd, Compt Blister in Front of Rear Axle	
0018820	Bumper, Rear, 5" w/Treadplate Cover, Ascendant Tandem, PAP, PAL RMAP	<p>REAR BUMPER</p> <p>A 5.00" rear bumper will be furnished. Bumper will be constructed of steel framework and will be covered with polished aluminum treadplate. The bumper will be 4.00" deep x 5.00" high and will be spaced away from the body approximately 1.00". It will extend the full width of the body.</p>
0603711	Guard, Drip Pan, S/S, Rollup Door, Aerial	<p>DOOR GUARD</p> <p>There will be six (6) compartment doors that will include a guard/drip pan designed to protect the rollup door from damage when in the retracted position and contain any water spray. The guard will be fabricated from stainless steel and installed on the left side rearward compartment, left side forward over the wheel compartment, left side forward compartment, right side rearward compartment, right side forward over the wheel compartment and right side forward compartment.</p>
0768509	Lights, Compt, Amdor AY-LB-12HW0** LED, Dual Lt Strip	<p>COMPARTMENT LIGHTING</p> <p>There will be eight (8) compartments that include Amdor, Model AY-LB12HW0**, white 12 volt DC LED compartment light strips with 45 degree brackets. The light manufacturers electrical connectors will be included in the circuit. The lights will be mounted with mechanical fasteners. There will be two (2) strip lights installed vertically in each compartment opening per the latest NFPA requirements.</p> <p>The lights will be activated when the battery switch is on and the respective compartment door is opened.</p>

0889727	Light, P25 LED, Compartment	<p>COMPARTMENT LIGHT There will be two (2) white 12 volt DC LED light(s) with chrome housing provided one in compartment LS5 and RS5. The light(s) will be controlled when the left side compartment door is open and when the right side compartment door is open.</p>
0603420	Shelf Tracks, Painted, Aerial	<p>MOUNTING TRACKS There will be five (5) sets of tracks for mounting shelf(s) in LS1, LS4, RS1, RS3 and RS4. These tracks will be installed vertically to support the adjustable shelf(s) and will be full height of the compartment. The tracks will be painted to match the compartment interior.</p>
0600289	Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations, Aerial	<p>ADJUSTABLE SHELVES There will be five (5) shelves with a capacity of 500 lb provided. The shelf construction will consist of .188" aluminum painted spatter gray with 2.00" sides. Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track. The shelves will be held in place by .12" thick stamped plated brackets and bolts. The location(s) will be in RS4 in the upper third, in RS3 in the upper third, in RS1 in the upper third, in LS4 in the upper third and in LS1 in the upper third.</p>
0603763	Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides, 2G Aerial	<p>SLIDE-OUT FLOOR MOUNTED TRAY There will be three (3) floor mounted slide-out tray(s) provided. Each tray will have 2.00" high sides and a minimum capacity rating of 500 lb in the extended position. Each tray will be constructed of aluminum painted spatter gray. There will be two undermount-roller bearing type slides rated at 250 lb each provided. The pair of slides will have a safety factor rating of 2. To ensure years of dependable service, the slides will 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 will require no more than a 50 lb 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 will have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request. Automatic locks will be provided for both the "in" and "out" positions. The trip mechanism for the locks will be located at the front of the tray for ease of use with a gloved hand. The location(s) will be RS1, RS4 and LS1.</p>
0725619	Drawer Insert, CTECH, Three Drawers, Up To 36" Wide	<p>DRAWER INSERT A slide-out drawer insert will be installed LS4. The drawer insert will not be in an enclosed cabinet. The clear dimensions starting at the top with the first drawer will be 4.00" with a face plate that is 5.00" high x 21.00" deep. The clear dimensions of the second drawer will be 6.75" with a face plate that is 7.00" high x 21.00" deep. The clear dimensions of the third drawer will be 7.75" with a face plate that is 8.00" high x 21.00" deep. Each drawer will be the same width and not exceed 36.00". The drawers will have a capacity of 250 pounds. A full-length aluminum extruded rail will be provided at the top edge of each drawer. This rail will act as the latching mechanism as well as the handle for each drawer. There will be a total of one (1) provided.</p>
0540317	Toolboard, Swing-out, Alum, .188", Peg Board	<p>SWING OUT TOOLBOARD A swing out aluminum toolboard will be provided. It will be a minimum of 0.188" thick with .203" diameter holes in a pegboard pattern with 1.00" centers between holes. A 1.00" x 1.00" aluminum tube frame will be welded to the edge of the pegboard. The board will be mounted on a pivoting device at the back of the compartment on the top and bottom to allow easy movement in and out of the compartment. The maximum tool load will be 400 lb. The board will have positive lock in the stowed and extended position. The board will have a D-ring handle to secure it in the stowed position. The board will be mounted on adjustable tracks from front to back within the compartment. One (1) toolboard(s) will be provided. The toolboard(s) will be spatter gray painted and installed LS3 full height and width.</p>
0755638	Pegboard, Back Wall Mounted, 3/16" Alum, Full Height Comp	<p>PEGBOARD There will be 0.188" thick aluminum pegboard spatter gray painted will be installed on the back wall of one (1) compartments. It will be mounted using two (2) horizontal tracks. Retainers will be used to mount the pegboard to the tracks. The pegboard will be installed on the back wall. The holes will be .203" diameter, punched 1.00" on center. Pegboard will be provided in the following compartments: LS3.</p>
0004016	Rub Rail, Aluminum Extruded, Side of Body	<p>RUB RAIL Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail. Trim will be 2.12" high with 1.38" flanges turned outward for rigidity. The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.</p>

Item # 9.

		Item # 9.
0802978	Fender Crowns, Rear, S/S, w/Removable Fender Liner, Aerial, 2G, Two Pair	<p>BODY FENDER CROWNS Polished stainless steel fender crowns will be provided around the rear wheel openings. A dielectric barrier will be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion. The fender crowns will 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 will be provided between the body and crown.</p> <p>BODY FENDER LINER An aluminum painted to match the lower body color fender liner will be provided. The liners will be removable to aid in the maintenance of rear suspension components.</p>
0519849	Not Required, Hose, Hard Suction	<p>HARD SUCTION HOSE Hard suction hose will not be required.</p>
0893756	Handrails, Side Pump Panels, Per Print, Aerial	<p>HANDRAILS The handrails will be 1.25" diameter knurled aluminum to provide a positive gripping surface. Chrome plated end stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces. Drain holes will be provided in the bottom of all vertically mounted handrails. Handrails will be provided to meet current edition of applicable NFPA standards. The handrails will be installed as noted on the sales drawing. There is to be a step provided below the right side running board.</p>
0004150	Handrail, Extra - 15-20" Long	<p>ADDITIONAL HANDRAIL Two (2) handrails will be mounted on boom support 4-way aluminum privacy panel ahead of pump panel, to assist accessing the crosslays. The handrail(s) will be constructed of knurled aluminum.</p>
0802986	Compt, Air Bottle, Between Tandems, Four (4) Bottles, w/ Straps, Bolt-In, Aerial	<p>FOUR AIR BOTTLE STORAGE COMPARTMENT A total of one (1) air bottle compartment will be provided and located on the right side, centered between the tandem rear wheels. The air bottle compartment will consist of individual bins each designed to hold an air bottle with a maximum diameter of 7.63" and a maximum depth of 26.00". Each compartment will hold a total of four (4) air bottles. The compartment will accommodate three (3) bottles across the top and one (1) centered below. The bottom air bottle will be accessible only when the top center bottle is removed and the hinged partition over the bottom bottle is lifted up. Each bottle will be separated by a partition. A drop down door with support cables with pair of Southco raised trigger C2 chrome lever latches will be provided for each compartment. The door will be painted to match the lower body stainless steel. The door will be flanged on all non-hinged sides. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment there will be a drain hole and black rubber matting.</p> <p>Air Bottle Compartment Strap Straps will be provided in the air bottle compartment(s) to help contain the top three (3) air bottles. The straps will wrap around the neck of each bottle and attach to the wall of the compartment.</p>
0803546	Compt, Air Bottle, Triple, Fender Corner, 6.50" Diam, Straps, Bolt-In, Tandem Aerial	<p>AIR BOTTLE STORAGE (Triple) A quantity of one (1) air bottle compartment designed to hold (3) air bottles up to 6.50" in diameter x 26.00" deep will be provided on the right side forward of the rear wheels. A triangular shaped painted to match the lower body stainless steel door with a Southco raised trigger C2 chrome lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black rubber matting will be provided.</p> <p>AIR BOTTLE COMPARTMENT STRAP Straps will be provided in the air bottle compartment(s) to help contain the air bottles. The straps will wrap around the neck of each bottle and attach to the wall of the compartment.</p>
0804249	Compt, Equipment/Air Pack, Between Tandems, Bolt-In, Aerial	<p>EQUIPMENT STORAGE A total of one (1) compartment(s) will be provided and located on the left side, centered between the tandem rear wheels. The compartment(s) will be approximately 16.00" wide at the top x 8.00" wide at the bottom with tapered sides. The compartment(s) will be approximately 12.00" high x 26.00" deep. A drop down door with support cables and a Southco raised trigger C2 chrome lever latch will be provided for each compartment. The door will be painted to match the lower body stainless steel. Inside the compartment there will be a drain hole and black rubber matting. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.</p>

0804448	Compt, Extinguisher, Fender, 9.00" Square, Bolt-In, Tandem Aerials	EXTINGUISHER STORAGE A quantity of one (1) extinguisher compartments will be provided on the right side rear rear wheels. The extinguisher compartment will be in the form of a 9.00" square tube adequate depth to accommodate different size extinguishers. A painted to match the lower body stainless steel door with a Southco raised trigger C2 chrome lever latch will be provided to contain the extinguisher. A dielectric barrier will be provided between the door hinge, hinge fasteners, and the body sheet metal. Inside the compartment, black rubber matting will be provided. There will also be a drain hole for each compartment.	Item # 9.
0004218	Ladder, 35' Duo-Safety 1200A 2-Sect	EXTENSION LADDER There will be one (1) 35' two (2) section aluminum Duo-Safety Series 1200-A extension ladder(s) provided.	
0010406	Ladder, 28' Duo-Safety 1200A 2-Section	AERIAL EXTENSION LADDERS There will be one (1) 28' two (2) section aluminum Duo-Safety Series 1200-A extension ladder(s) provided and located in the aerial torque box.	
0024232	Ladder, 16' Duo-Safety 875A Roof	ROOF LADDER There will be one (1) 16' aluminum Duo-Safety Series 875-A roof ladder(s) provided.	
0648681	Ladder, 14' Duo-Safety 875-DR Roof	ADDED ROOF LADDER There will be one (1) aluminum, 14' Duo Safety 875-DR roof ladder provided Behind boom sign on driver side of aerial..	
0014232	Ladder, 20' Duo-Safety 875A Roof	ADDED ROOF LADDER There will be one (1) 20' roof, aluminum, Series 875-A provided.	
0004233	Ladder, 14' Duo-Safety Fresno 701	AERIAL ATTIC EXTENSION LADDER There will be one (1) 14' Fresno aluminum Duo-Safety Series 701 attic extension ladder(s) provided.	
0004246	Ladder, 10' Duo-Safety Folding, 585A	AERIAL FOLDING LADDER There will be one (1) 10' aluminum Duo-Safety Series 585-A folding ladder(s) provided and located in the aerial torque box.	
0042207	Ladders Stored in Torque Box, Gortite Roll, Ascendant TA, PAL, PAP	GROUND LADDER STORAGE The ground ladders are stored within the torque box and are removable from the rear. Ladders will be enclosed to prevent road dirt and debris from fouling or damaging the ladders. The ladders rest in full length stainless steel slides and are arranged in such a manner that any one ladder can be removed without having to move or remove any other ladder. A Gortite rollup door will be provided at the rear, double faced, aluminum construction, and an anodized satin finish. A polished stainless steel lift bar to be provided for the rear roll-up door. The latching mechanism will consist of a full length lift bar lock with latches on the outer extrusion of the door frame. A stainless plate with a 2-bend flange and a stainless steel hinge will be provided to secure the aerial ladder complement. The plate assembly will be mounted to the bottom of the entrance of the torque box ladder storage area. When the plate is vertical, it will secure the ladders and prevent them from migrating to the rear of the apparatus. When the plate is down and not securing the ladders, the rollup door can not close, which will activate the "Open Door Indicator Light" within the cab. The rollup door together with hinge friction will secure the plate in place during driving operations. A door guard will be provided to prevent tools inside the torque box from damaging the rollup door.	
0602100	Lights, Torque Box Ladder Storage, Pierce LED Strip Lights, 2 Lts	LADDER STORAGE LIGHTING There will be 21.00" white 12 volt DC LED strip lights in the torque box ladder storage compartment. One (1) light will be provided on each side of the ladder storage area. The lights will be activated when the ladder storage compartment door is opened.	
0769312	Pike Pole, 12' Fire Hooks Unlimited, NY Roof Hook, Fiberglass, RH-12, Ram Knob	12' PIKE POLES There will be two (2) Fire Hooks Unlimited Model RH-12' New York Roof Hook with a fiberglass shaft and ram knob end provided. The pike pole(s) will be stored in tubular holders located in the ground ladder storage compartment.	
0623273	Pike Pole, 8' Fire Hooks Unlimited, New York Roof Hook, Steel, Gas Shut Off,RH-8	8' PIKE POLE There will be two (2) Fire Hooks Unlimited, New York Hook , 8' long roof hook with steel shaft and gas shut off end provided.	

0552649	Pike Pole, 6' Fire Hooks Unlimited, New York Roof Hook, Steel, Pry End, RH-6	6' PIKE POLE There will be two (2) Fire Hooks Unlimited NY roof hook RH-6, 6' pike pole(s) with steel and pry end provided torque box. <div style="border: 1px solid black; padding: 2px; float: right; margin-top: 10px;">Item # 9.</div>
0014343	Not Required, Pike Pole, 3'	
0770572	Pike Pole Tubes, in Torque Box/Ladder Storage, Alum, Special Notch, NY Style	PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE There will be aluminum tubing provided in the torque box/ladder storage area for a total of six (6) pike poles. The pike pole tube(s) will be notched to allow a New York style pike pole to fit in the tube. If the head of a pike pole can come into contact with a painted surface, a stainless steel scuffplate will be provided.
0593075	Steps, Folding, Front Bulkheads (Aerial), w/LED, Trident	STEPS A folding step will be provided on the front of each fender compartment for access to the hose bed. The step will be bright finished, non-skid with a black tread coating on the stepping surface. The step will incorporate an LED light to illuminate the stepping surface. The step can be used as a hand hold with two openings wide enough for a gloved hand.
0724153	Step, Folding - Extra, Body Only, w/LED, Trident	Four (4) additional folding steps will be located 2- DS front body bulkhead 2- PS front body bulkhead. The step(s) will be bright finished, non-skid with a black tread coating on the stepping surface. Each step will incorporate an LED light to illuminate the stepping surface. The step(s) can be used as a hand hold with two openings wide enough for a gloved hand.
0559082	Steps, Stirrup Style, Imp/Vel Cab Style, Each	STIRRUP STEP There will be one (1) stirrup step(s) provided below the body. Each step will be designed with a grip pattern punched into bright aluminum treadplate material, providing support, slip resistance and drainage. The step(s) will be a bolt-on design and provide an 18.50" wide x 5.00" deep stepping surface. The step(s) will be located under passenger side running board. The stirrup step(s) will be lit by a white 12 volt DC LED light provided on the step. The additional step(s) lights will be activated by the same means as the standard step lights.
0620530	Pump House, Side Control, 52", Control Zone, Aerial	PUMP COMPARTMENT The pump compartment will be separate from the hose body and compartments so that each may flex independently of the other. The pump compartment will be constructed of the same material as the body compartmentation. The pump compartment substructure will be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards. The pump compartment will 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 will be removable from the chassis in a single assembly.
		PUMP MOUNTING Pump will be mounted to a substructure which will be mounted to the chassis frame rail using rubber isolators. The mounting will allow chassis frame rails to flex independently without damage to the fire pump.
		LEFT SIDE PUMP CONTROL PANELS All pump controls and gauges will be located at the left (driver's) side of the apparatus and properly identified. Layout of the pump control panel will be ergonomically efficient and systematically organized. The pump operator's control panel will be removable in two (2) main sections for ease of maintenance:
		The upper section will contain sub panels for the mounting of the pump pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable). Sub panels will be removable from the face of the pump panel for ease of maintenance. Below the sub panels will be located all valve controls and line pressure gauges. The lower section of the panel will contain all inlets, outlets, and drains.
		All push/pull valve controls will have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods will be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls will be capable of locking in any position. The control rods will pull straight out of the panel and will be equipped with universal joints to eliminate binding.
		IDENTIFICATION TAGS The identification tag for each valve control will be recessed in the face of the tee handle. All discharge outlets will have color coded identification tags, with each discharge having its own unique color. Color coding will include the labeling of the outlet and the drain for each corresponding discharge.
		All line pressure gauges will 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 will be removable from the face of the pump panel for ease of maintenance. The casting will be color coded to correspond with the discharge identification tag.
		All remaining identification tags will be mounted on the pump panel in chrome plated bezels. The pump panel on the right (passenger's) side will be removable with lift and turn type fasteners. Trim rings will be installed around all inlets and outlets.

0035501 Pump House Structure, Std Height

Item # 9.

0004435 Pump, Waterous, CSU, 2000 GPM, Single Stage

PUMP

Pump will be a Waterous CSU, 2000 gpm single (1) stage midship mounted centrifugal type. Pump will be the class "A" type. Pump will 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 will 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 will be designed for complete servicing from the bottom of the truck, without disturbing the pump setting or apparatus piping. Pump case halves will be bolted together on a single horizontal face to minimize a chance of leakage and facilitate ease of reassembly. No end flanges will be used. Discharge manifold of the pump will be cast as an integral part of the pump body assembly and will 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 will 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 will be stainless steel, accurately ground to size. It will be supported at each end by sealed, anti-friction ball bearings for rigid precise support. Impeller will have flame plated hubs assuring maximum pump life and efficiency despite any presence of abrasive matter in the water supply. Bearings will be protected from water and sediment by suitable stuffing boxes, flinger rings, and oil seals. No special or sleeve type bearings will be used.

0004482 Seal, Mechanical, Waterous

Pump will be equipped with a self-adjusting, maintenance-free, mechanical shaft seal. The mechanical seal will consist of a flat, highly polished, spring fed carbon ring that rotates with the impeller shaft. The carbon ring will press against a highly polished stainless steel stationary ring that is sealed within the pump body. In addition, a throttling ring will 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 will not deteriorate, nor will the pump lose prime, while drafting if the seal fails during pump operation. Wear rings will be bronze and easily replaceable to restore original pump efficiency and eliminate the need to replace the entire pump casing due to wear.

0816447 Trans, Pump, Waterous C22 Series

PUMP TRANSMISSION

The pump transmission will be made of a three (3) piece, aluminum, horizontally split casing. Power transfer to pump will be through a high strength Morse HY-VO silent drive chain. By using a chain rather than gears, 50 percent of the sprocket will be accepting or transmitting torque, compared to two (2) or three (3) teeth doing all the work. Drive shafts will be 2.35" diameter hardened and ground alloy steel and supported by ball bearings. The case will be designed to eliminate the need for water cooling.

0635600 Pumping Mode, Stationary Only

PUMPING MODE

An interlock system will be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. The interlock system will be designed to allow stationary pumping only.

0605126 Pump Shift, Air Mnl Override, Split Shaft, Interlocked, Waterous

AIR PUMP SHIFT

Pump shift engagement will 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 will also be located on the left side pump panel. Two (2) indicator lights will be provided adjacent to the pump shift inside the cab. One (1) green light will indicate the pump shift has been completed and be labeled "pump engaged". The second green light will indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light will be labeled "OK to pump". The pump shift will 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 will be illuminated to meet NFPA requirements.

0003148 Transmission Lock-up, EVS

TRANSMISSION LOCK-UP

The direct gear transmission lock-up for the fire pump operation will engage automatically when the pump shift control in the cab is activated.

0004547 Auxiliary Cooling System

AUXILIARY COOLING SYSTEM

A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The heat exchanger will be a separate unit. It will be installed in the pump or engine compartment with the control located on the pump operator's control panel. The exchanger will be plumbed to the master drain valve.

0014486 Not Required, Transfer Valve, Single Stage Pump

0777650	Valve, Relief Intake, Akron	<p>PUMP INTAKE RELIEF VALVE</p> <p>An Akron Style 53 relief valve will be installed on the suction side of the pump preset at Item # 9.</p> <p>The relief valve will have a working range of 50 psi to 250 psi.</p> <p>The outlet will terminate below the frame rails with a 2.50" National Standard hose thread adapter and will have a "do not cap" warning tag.</p> <p>The relief valve pressure control will be located behind the right side pump panel with a stainless steel access door.</p>
0826104	Controller, Pressure, FRC, Pump Boss Max, PBA500	<p>PRESSURE CONTROLLER</p> <p>A FRC Pump Boss 500 electronic pressure controller with one (1) 600 PSI transducer on the pump discharge will be provided. All readouts will be standard PSI.</p> <p>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.</p> <p>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.</p> <p>The pressure controller can be used in two (2) modes of operation, RPM mode and pressure modes. The controller will be programmed to turn on/default to RPM Setting mode.</p> <p>In RPM mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will maintain the set engine speed, regardless of engine load (within engine operation capabilities).</p> <p>In pressure mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow.</p> <p>A 2.00" diameter throttle control knob with no mechanical stops, a serrated grip, and a red idle push button in the center will be a integrated/part of the pressure controller. The throttle control knob will be programmed for Clockwise rotation to increase engine speed.</p> <p>Individual LED indicators for ok to pump, throttle ready, pressure mode and rpm mode will be located on the pressure controller for easy viewing.</p> <p>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.</p> <p>An additional audible alarm will NOT BE provided.</p> <p>The pressure controller screen will be LCD. The LCD screen and LED intensity will be automatically adjust for day and nighttime operation. The LCD screen intensity can also be manually adjusted if needed.</p> <p>The following information will be provided/displayed on the LCD screen:</p> <ul style="list-style-type: none"> 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 <p>On screen messaging show diagnostic and warning messages as they occur. It will show apparatus information, stored data, and program options when selected by the operator. It will monitor inputs outputs and support audible and visual warning alarms for the following conditions:</p> <ul style="list-style-type: none"> 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) <p>The pressure controller will store the accumulated operating hours for the pump and engine. These items are to be displayed within the pressure controller menu.</p> <p>The pressure controller will include a USB port on the back of the controller for easy software upgrades if needed.</p>
0072153	Primer, Trident, Air Prime, Air Operated	<p>PRIMING PUMP</p> <p>The priming pump will be a Trident Emergency Products compressed air powered, high efficiency, multistage venturi based AirPrime System, conforming to standards outlined in the current edition of applicable NFPA standards.</p> <p>All wetted metallic parts of the priming system are to be of brass and stainless steel construction.</p> <p>One (1) priming control will open the priming valve and start the pump primer.</p>
0780364	Manuals, Pump, (2) Total, Electronic Copies	<p>PUMP MANUALS</p> <p>There will be a total of two (2) pump manuals provided by the pump manufacturer and furnished with the apparatus. The manuals will be provided by the pump manufacturer in the form of two (2) electronic copies. Each manual will cover pump operation, maintenance, and parts.</p>

0602512	Plumbing, Stainless Steel and Hose, Single Stage Pump, Control Zone	<p>PLUMBING, STAINLESS STEEL AND HOSE</p> <p>All inlet and outlet lines will be plumbed with either stainless steel pipe, flexible polypropylene tubing or synthetic rubber hose reinforced with hi-tensile polyester braid. All hose's will be equipped with brass or stainless steel couplings. All stainless steel hard plumbing will be a minimum of a schedule 10 wall thickness.</p> <p>Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings.</p> <p>Plumbing manifold bodies will be ductile cast iron or stainless steel.</p> <p>All piping lines are to be drained through a master drain valve or will be equipped with individual drain valves. All drain lines will be extended with a hose to drain below the chassis frame.</p> <p>All water carrying gauge lines will be of flexible polypropylene tubing.</p> <p>All piping, hose and fittings will have a minimum of a 500 PSI hydrodynamic pressure rating.</p>	Item # 9.
0795135	Plumbing, Stainless Steel, w/Foam System	<p>FOAM SYSTEM PLUMBING</p> <p>All piping that is in contact with the foam concentrate or foam/water solution will be stainless steel. The fittings will be stainless steel or brass. Cast iron pump manifolds will be allowed.</p>	
0004645	Inlets, 6.00" - 1250 GPM or Larger Pump	<p>MAIN PUMP INLETS</p> <p>A 6.00" pump manifold inlet will be provided on each side of the vehicle. The suction inlets will include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.</p>	
0004646	Cap, Main Pump Inlet, Long Handle, NST, VLH	<p>MAIN PUMP INLET CAP</p> <p>The main pump inlets will have National Standard Threads with a long handle chrome cap. The cap will be the Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.</p>	
0084610	Valves, Akron 8000 series- All	<p>VALVES</p> <p>All ball valves will be Akron® Brass. The Akron valves will 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.</p> <p>Valves will have a ten (10) year warranty.</p>	
0016158	Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	The location of the valve for the one (1) inlet will be recessed behind the pump panel.	
0004700	Control, Inlet, at Valve	<p>INLET CONTROL</p> <p>The side auxiliary inlet(s) will incorporate a quarter-turn ball valve with the control located at the inlet valve. The valve operating mechanism will indicate the position of the valve.</p>	
0004660	Inlet (1), Left Side, 2.50"	<p>LEFT SIDE INLET</p> <p>There will 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.</p> <p>The auxiliary inlet will be provided with a strainer, chrome swivel and plug.</p>	
0029147	Not Required, Inlet, Right Side		
0092569	No Rear Inlet (Large Dia) Requested		
0064116	No Rear Inlet Actuation Required		
0092696	Not Required, Cap, Rear Inlet		
0009648	No Rear Intake Relief Valve Required on Rear Inlet		
0586174	Provision, Front Inlet	<p>FRONT INLET PROVISION</p> <p>Provisions for a front inlet will be provided on the right side pump suction manifold. Flange will be capped off for possible addition of front inlet at a later date.</p>	
0092568	No Rear Auxiliary Inlet Requested		

0723049	Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	<p>INLET BLEEDER VALVE A 0.75" bleeder valve will be provided for each side gated inlet. The valves will be located behind the panel with a "T" swing style handle control extending outside of the panel. The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. The water discharged by the bleeders will be routed below the chassis frame rails.</p>	Item # 9.
0029043	Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing	<p>TANK TO PUMP The booster tank will 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 will 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 will be included in this line to prevent damage from vibration or chassis flexing. A check valve will be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.</p>	
0004905	Outlet, Tank Fill, 1.50"	<p>TANK REFILL A 1.50" combination tank refill and pump re-circulation line will be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.</p>	
0062133	Control, Outlets, Manual, Pierce HW if applicable	<p>DISCHARGE OUTLET CONTROLS The discharge outlets will incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism will indicate the position of the valve. If a handwheel control valve is used, the control will be a minimum of a 3.9" diameter stainless steel handwheel with a dial position indicator built in to the center of the handwheel. Any 3.00 inch or larger discharge valve will be a slow-operating valve in accordance with NFPA 16.7.5.3.</p>	
0004940	Outlet, Left Side, 2.50"	<p>LEFT SIDE DISCHARGE OUTLETS There will be Two (2) discharge outlets with a 2.50" valve on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.</p>	
0005091	Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	<p>LEFT SIDE OUTLET ELBOWS The 2.50" discharge outlets located on the left side pump panel will 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 will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.</p>	
0092570	Not Required, Outlets, Left Side Additional		
0035094	Not Required, Elbow, Left Side Outlets, Additional		
0004945	Outlet, Right Side, 2.50"	<p>RIGHT SIDE DISCHARGE OUTLETS There will be One (1) discharge outlet with a 2.50" valve on the right side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.</p>	
0025091	Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	<p>RIGHT SIDE OUTLET ELBOWS The 2.50" discharge outlets located on the right side pump panel will 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 will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.</p>	
0092571	Not Required, Outlets, Right Side Additional		
0089584	Not Required, Elbow, Right Side Outlets, Additional		
0816625	Outlet, Large Diameter, Right Side, Akron Valve	<p>LARGE DIAMETER DISCHARGE OUTLET There will 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 will be controlled with a(n) Pierce large handwheel with indicator located at the pump operator's panel.</p>	

0005097	Elbow, Large Dia Outlet, 30 Deg, 4.00" FNST x 5.00" Storz	LARGE DIAMETER OUTLET ELBOWS The 4.00" outlet(s) will be furnished with one (1) 4.00" (F) National Standard hose thread Storz elbow adapter with Storz cap.	Item # 9.
0649939	Outlet, Front, 1.50" w/2" Plumbing	FRONT DISCHARGE OUTLET There will be one (1) 1.50" discharge outlet piped to the front of the apparatus and located on the top of the right side of the front bumper. Plumbing will 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 will be used in the plumbing where appropriate. The piping will terminate with a 1.50" NST with 90 degree stainless steel swivel. There will be Class 1 quarter turn round handle drains provided at all low points of the piping.	
0092575	Not Required, Outlet, Rear		
0045099	Not Required, Elbow, Rear Outlets		
0092574	Not Required, Outlet, Rear, Additional		
0085695	Not Required, Elbow, Rear Outlets, Large, Additional		
0092573	Not Required, Outlet, Hose Bed/Running Board Tray		
0752096	Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Vinyl Covered Cable	DISCHARGE CAPS/ INLET PLUGS Chrome plated, rocker lug, caps with vinyl covered cables will 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 will be furnished for all auxiliary inlets 1.00" thru 3.00" in size. The caps and plugs will incorporate a thread design to automatically relieve stored pressure in the line when disconnected.	
0723042	Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	OUTLET BLEEDER VALVE A 0.75" bleeder valve will 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 will be located behind the panel with a T swing style handle control extended to the outside of the side pump panel. The handles will be chrome plated and provide a visual indication of valve position. The T swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. Bleeders will be located at the bottom of the pump panel. They will be properly labeled identifying the discharge they are plumbed in to. The water discharged by the bleeders will be routed below the chassis frame rails.	
0029106	Not Required, Deluge Outlet		
0029302	No Monitor Requested		
0029304	No Nozzle Req'd		
0029107	No Deluge Mount		
0826323	Waterway Outlet & Control, Akron Valve	AERIAL WATERWAY OUTLET The aerial waterway will be plumbed from the water pump to the aerial device waterway with 5.00" pipe and a 4.00" Akron valve. The valve will be controlled with a Pierce large handwheel with indicator located at the pump operator's panel.	
0723726	Speedlay Module Not Required		
0722432	Hose Restraint Not Required, No Speedlay Module		

0723395 Speedlays, Not Required

Item # 9.

0723394 Speedlays, Not Required

0029167 Crosslays Sngl Sheet Unpainted, (2+) 1.50", Std. Cap

CROSSLAY HOSE BEDS

Two (2) crosslays with 1.50" outlets will be provided. Each bed to be capable of carrying 200' of 1.75" double jacketed hose and will 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 will be at the pump operator's panel.
The center crosslay dividers will be fabricated of 0.25" aluminum and will provide adjustment from side to side. The divider will be unpainted with a brushed finish.
Vertical scuffplates constructed of polished stainless steel will be provided at the front and rear ends of the bed on each side of vehicle.
Crosslay bed flooring will consist of removable perforated brushed aluminum.

0090442 Crosslays Sngl Sheet Unpainted, (1) 2.50" Std Cap

2.50" CROSSLAY HOSE BED

One (1) crosslay with 2.50" outlets will be provided. This bed to be capable of carrying 200' of 2.50" double jacketed hose and will be plumbed with 2.50" i.d. pipe and gated with a 2.50" quarter turn ball valve.
Outlet to be equipped with a 2.50" 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 control will be at the pump operator's panel.
When used in conjunction with other crosslay/speedlay/deadlay configurations, a center crosslay divider, when needed, will be fabricated of .25" aluminum and will provide adjustment from side to side. The divider will be unpainted with a brushed finish. The remainder of the crosslay bed will be painted job color.
Polished stainless steel vertical scuffplates will be provided at hose bed ends (each side of vehicle). Bottom of hose bed ends (each side) will also be equipped with a polished stainless steel scuffplate.
Crosslay bed flooring will consist of removable perforated brushed aluminum.

0591138 Hose Restraint, Crosslay/Deadlay, Vinyl, Strap Fasteners, Each Side, Ends

CROSSLAY/DEADLAY HOSE RESTRAINT

There will be black vinyl end flap provided across each end of three (3) crosslay/deadlay opening (s) to secure the hose during travel. Each vinyl end flap will be permanently attached at the top of the crosslay/deadlay opening(s). 1.00" web straps will loop through footman loops at the opposite end of the permanently attached vinyl. They will be attached with spring clip and hook fasteners.

0029260 Not Required, Speedlays

0750536 Hose Restr, Spdly, Not Required, No Spdly

0075206 Cover, Crosslay, Bi-fold 3\16" Alum Treadplate

CROSSLAY COVER

A bi-fold .19" aluminum treadplate cover will be installed over the crosslay hose beds. It will include a latch at each end of the cover to hold it securely in place, a chrome grab handle at each end for opening and closing the cover and a foam rubber gasket where the cover comes into contact to a painted surface.

HUSKY 3 FOAM PROPORTIONER

A Pierce Husky® 3 foam proportioning system will be provided. The Husky 3 is an on demand automatic proportioning, single point, direct injection system suitable for all types of Class A foam concentrates, including the high viscosity (6000 cps), alcohol resistant Class B foam concentrate. Operation will be based on direct measurement of water flow, and remain consistent within the specified flows and pressures. The system will 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.

Item # 9.

The design of the system will allow operation from draft, hydrant, or relay operation.

System Capacity

The system will 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 will be limited to the plumbing and water pump capacity).

Control System

The system will be equipped with a digital electronic control display located on the pump operators panel. Push button controls will 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 will have a preset. This preset can be changed at the fire department as desired. The percent of injection will be able to be easily changed at the scene to adjust to changing demands.

Three (3) 0.50" tall LEDs will display the foam percentage in numeric characters. Three (3) indicator LEDs will also be included, one (1) green, one (1) red, and one (1) yellow. The LEDs will indicate various system operation or error states.

The indications will be:

Solid Green - System On
Solid Red - Valve Position Error
Solid Yellow - Priming System
Flashing Green - Injecting Foam
Flashing Red - Low Tank Level
Flashing Yellow - Refilling Tank

The control display will house a microprocessor, which receives input from the systems water flow meter while also monitoring the position of the foam concentrate pump. The microprocessor will 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 will be installed in the plumbing to prevent foam from contaminating the water pump.

Hydraulic Drive System

The foam concentrate pump will be powered by an electric over hydraulic drive system. The hydraulic system and motor will be integrated into one (1) unit.

Foam Concentrate Pump

The foam concentrate pump will be of positive displacement, self-priming; linear actuated design, driven by the hydraulic system. The pump will 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 will be present in its construction.

A relief system will be provided which is designed to protect the drive system components and prevent over pressuring the foam concentrate pump

The foam concentrate pump will 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 will 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 will 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 will be provided to enable use of a foam agent that is not stored on the vehicle. The external foam pick-up will 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 will be provided. The unit will be mounted to the pump panel. The valve unit will function as the foam system tank to pump valve and external suction valve. The external foam pick-up will 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 will be provided. The hose will be supplied with a 0.75" female swivel GHT (garden hose thread) swivel connector. The hose will be shipped loose.

Discharges

The foam system will be plumbed to three (3) discharges. The discharges capable of dispensing foam will be Front Bumper, Front Crosslay, LS2.5".

System Electrical Load

The maximum current draw of the electric motor and system will be no more than 55 amperes at 12 VDC.

0592527	Refill, Foam Tank, Integral, Husky 3	SINGLE FOAM TANK REFILL The foam system's proportioning pump will be used to fill the foam tank. This will allow 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 will be installed in the fill dome of the tank to shut the system down when the tank is full. The fill operation will be controlled by a mode in the foam system controller. While the proportioner pump is filling the tank, the controller will 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 will stop and the controller will 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 will illuminate to indicate the improper valve position(s). When the valves are positioned properly, then filling will commence.	Item # 9.
0031896	Demonstration, Foam System, Dealer Provided		
0005446	Foam Cell, 20 Gallon, Not Reduce Water	FOAM TANK The foam tank will be an integral portion of the polypropylene water tank. The cell will have a capacity of 20 gallons of foam with the intended use of Class A foam. The foam cell will not reduce the capacity of the water tank. The foam cell will have a screen in the fill dome and a breather in the lid.	
0697589	Drain, 1.00", Foam Tank #1, Husky 3 Foam System, Quarter Turn	FOAM TANK DRAIN The foam tank drain will be a 1.00" quarter turn drain valve located inside the pump/plumbing compartment.	
0091079	Not Required, Foam Tank #2		
0091112	Not Required, Foam Tank #2 Drain		
0738072	Approval Dwg, Pump Panel(s), Not Required		
0032479	Pump Panel Configuration, Control Zone	PUMP PANEL CONFIGURATION The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.	
0562698	Step, Slide-Out/Fold-Out, Pump Operator Platform, Aerial	PUMP OPERATOR'S PLATFORM A pull out, flip down platform will be provided at the pump operator's control panel. The front edge and the top surface of the platform will be made of DA finished aluminum with a Morton Cass insert. The platform will be approximately 13.75" deep when in the stowed position and approximately 22.00" deep when extended. The platform stepping surface will be 35.00" wide. The platform will lock in the retracted and the extended position. The sides, bottom and rear portions of the support assembly will be painted to match lower job color. The platform will be wired to the "step not stowed" indicator in the cab.	
0667186	Light, Slide-Out Pump Operator Step, OSS Access LED, Short Step	PUMP OPERATOR'S PLATFORM PERIMETER LIGHT There will be an On Scene Solutions, Model Night Stick Access, 20.00" white 12 volt DC LED strip light provided to illuminate the ground area.	
0635355	Material, Pump Panels, Side Control Painted FormCoat Black	PUMP AND GAUGE PANEL The pump and gauge panels will be constructed of aluminum with a painted FormCoat black finish. A polished aluminum trim molding will be provided around each panel.	
0721765	Panel, Pump Access - Right Side Only, Side Control	PUMP ACCESS Right Side Panel The right side upper pump panel will be removable. Panel Fastener The removable panels will be secured with black swell latch. The left side pump panels will be attached with screws. The right side lower pump panel (drain bank) will be attached with screws.	
0583824	Light, Pump Compt, WIn 3SC0CDCR LED White	PUMP COMPARTMENT LIGHT There will be one (1) Whelen®, Model 3SC0CDCR, 3.00" white 12 volt DC LED light(s) with Whelen, Model 3FLANGE, flange(s) installed in the pump compartment.	

0586382	Gauges, Engine, Included With Pressure Controller	Engine monitoring graduated LED indicators will be incorporated with the pressure controller. Also provided at the pump panel will be the following: - Master Pump Drain Control	Item # 9.
0005601	Throttle, Engine, Incl'd w/Press Controller		
0739224	Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle, Green	THROTTLE READY GREEN INDICATOR LIGHT There will 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.	
0549333	Indicators, Engine, Included with Pressure Controller		
0745568	Indicator Light, Pump Panel, Ok To Pump, Green	OK TO PUMP INDICATOR LIGHT There will be a green indicator light installed on the pump operators panel that is activated when the pump is in Ok To Pump mode.	
0553643	Control, Air Horn at Pmp Pnl, Red Switch, Momentary	AIR HORN SWITCH An air horn control switch will be provided at the pump operator's control panel. This switch will be momentary red and properly labeled. The switch will be located within easy reach of the operator in the electrical switch panel.	
0511078	Gauges, 4.00" Master, Class 1, 30"-0-600psi	VACUUM AND PRESSURE GAUGES The pump vacuum and pressure gauges will be liquid filled and manufactured by Class 1 Incorporated. The gauges will be a minimum of 4.00" in diameter and will have white faces with black lettering, with a pressure range of 30.00"-0-600#. Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut. The pump pressure and vacuum gauges will be installed adjacent to each other at the pump operator's control panel. Test port connections will be provided at the pump operator's panel. One (1) will be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They will have 0.25 in. standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They will be marked with a label. This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.	
0511100	Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	PRESSURE GAUGES The individual "line" pressure gauges for the discharges will be Class 1 interlube filled. They will be a minimum of 2.00" in diameter and have white faces with black lettering. Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut. Gauges will have a pressure range of 30"-0-400#. The individual pressure gauge will be installed as close to the outlet control as practical. This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.	
0757359	Gauge, Water Level, Class 1, Pierce Std, Remote Module Driver	WATER LEVEL GAUGE There will 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 will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The water level indicators will be as follows: 100 percent = Green 75 percent = Yellow 50 percent = Yellow 25 percent = Yellow Refill = Red The light will 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 will flash sequentially when the water tank is empty. The level measurement will be based on the sensing of head pressure of the fluid in the tank. The display will 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 will provide complete protection from water and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level. The main water level gauge will be powered with battery switch. There will be a Hale part number 106877, 4-light driver module included with this installation to power additional water level gauges. The remote level lights will be energized when pump is in gear.	

0746513	Water Level Gauge, WIn 50*02Z*R LED w/Flange, Gr-BI-Amb-Rd, Features	<p>WATER LEVEL GAUGE - ADDITIONAL</p> <p>A water level gauge system will be provided Behind Crew Cab doors each side of cab. system will be provided with four (4) Whelen® Model 50*02Z*R Linear LED lights with The total quantity of water level gauge systems to be provided will be two (2). The lights will be mounted and indicate the following:</p> <p>The top green light - water level full. Next blue light - water level 3/4 full. Next amber light - water level 1/2 full Bottom red light - water level 1/4 full when on solid and will flash when empty. The lens color(s) to be clear. The flash rate will be determined by the main water tank sensor. The above system will function similar to the standard five (5) light at the pump panel. The system will activate pump is in gear.</p>
0062992	Gauge, Foam Level, (1) Tank, Class 1, GAAAR 5lt	<p>FOAM LEVEL GAUGE</p> <p>An electronic foam level gauge will be provided on the operator's panel that registers foam level by means of five (5) colored LED lights. The lights will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The foam level indicators will be as follows:</p> <p>100 percent = Green 75 percent = Yellow 50 percent = Yellow 25 percent = Yellow Refill = Red</p> <p>The light will 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 will flash sequentially when the foam tank is empty.</p> <p>The level measurement will be based on the sensing of head pressure of the fluid in the tank. The display will 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 will provide complete protection from foam and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The display will be able to be calibrated in the field and will measure head pressure to accurately show the tank level.</p>
0593161	Light Shield, S/S LED	<p>LIGHT SHIELD</p> <p>There will be a polished, 16 gauge stainless steel light shield installed over the pump operator's panel.</p> <p>There will 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 will be activated by the pump panel light switch. Additional lights will be included every 18.00" depending on the size of the pump house. One (1) pump panel light will come on when the pump is in ok to pump mode. The switch panel will be lit when the parking brake is set. This is to afford the operator illumination when first approaching the control panel.</p>
0606694	Air Horns, (2) Hadley, 6" Round, eTone, In Bumper	<p>AIR HORN SYSTEM</p> <p>Two (2) Hadley®, eTone, chrome air horns will be recessed in the front bumper. The air horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed to prevent the loss of air in the brake system.</p>
0606834	Location, Air Horns, Bumper, Each Side, Outside Frame, Inboard (Pos #2 & #6)	<p>Air Horn Location</p> <p>The air horns will be located on each side of the bumper, just outside of the frame rails.</p>
0757092	Control, Air Horn, Multi Select	<p>Air Horn Control</p> <p>The air horn(s) will be activated by the following:</p>
0757081	Control, Air Horn, Ft Sw, LS	Left side foot switch
0815743	Control, Air Horn, Red Push Button Sw, Turntable	Red push button switch located at the aerial turntable. The control to be available when the ignition switch is on.
0534828	Siren, WIn 295SL101, 100 or 200W Removable Mic	<p>ELECTRONIC SIREN</p> <p>There will be a Whelen, Model 295SL 101, 100 or 200 watt electronic siren with noise canceling plug-in microphone will be provided. This siren to be active when the battery switch is on and that emergency master switch is on.</p>
0510206	Location, Elect Siren, Recessed Overhead In Console	Electronic siren head will be recessed in the overhead console above the engine tunnel on the driver side.
0076156	Control, Elec Siren, Head Only	The electronic siren will be controlled on the siren head only. No horn button or foot switches will be provided.

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0601306	Speaker, (1) WIn, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	SPEAKER There will be one (1) Whelen®, Model SA315P, black nylon composite, 100-watt, speaker through bumper mounting brackets and polished stainless steel grille provided. The speaker will be connected to the siren amplifier.	Item # 9.
0601565	Location, Speaker, Frt Bumper, Recessed, Center (Pos 4)	The speaker(s) will be recessed in the center of the front bumper.	
0895310	Siren, Federal Q2B	AUXILIARY MECHANICAL SIREN There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus. The Q2B will be chrome finish. The siren will 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 will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on. The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery.	
0618413	Siren, Mechanical, Recessed In Grille, Saber FR/Enforcer	The mechanical siren will be mounted on the front grille, partially recessed. Part of the motor will be mounted behind the front grille and will include a reinforcement plate for mounting. There will be a polished stainless steel shroud provided between the mechanical siren and the grille to cover the internal parts that are exposed.	
0748305	Control, Mech Siren, Multi Select	MECHANICAL SIREN CONTROL The mechanical siren will be activated by the following:	
0748282	Control Mech Siren, Ft Sw LS	Left side foot switch.	
0740391	Sw, Siren Brake, Momentary Chrome Push Button, RS	A momentary chrome push button switch will be included in the right side dash panel to activate the siren brake.	
0897455	Sw, Siren Brake, Mom Rocker/Membrane, Red Outline, Lower Sw Pnl, Mux	A momentary switch with red outline around the switch will be included in the lower switch panel to activate the siren brake.	
0746353	Not Required, Warning Lights Intensity		
0604635	Lightbar, WIn, Freedom IV-Q, 2-21.5", RRRWR RWRRR	FRONT ZONE UPPER WARNING LIGHTS There will be two (2) 21.50" Whelen Freedom IV LED lightbars mounted on the cab roof, one (1) on each side, above the driver's and passenger's door, facing forward. The driver's side lightbar will include the following: One (1) red flashing LED module in the outside end position. One (1) red flashing LED module in the outside front corner position. One (1) red flashing LED module in the outside front position. One (1) white flashing LED module in the inside front position. One (1) red flashing LED module in the inside front corner position. The passenger's side lightbar will include the following: One (1) red flashing LED module in the inside front corner position. One (1) white flashing LED module in the inside front position. One (1) red flashing LED module in the outside front position. One (1) red flashing LED module in the outside front corner position. One (1) red flashing LED module in the outside end position. There will be clear lenses and colored filters included on the lightbar. There will be a switch in the cab on the switch panel to control the lightbars. The white LED's will be disabled when the parking brake is applied. The two (2) red flashing LED modules in the inside front and the two red flashing LED modules in the inside front corner positions may be load managed when the parking brake is applied.	
0016380	No Additional Lights Req'd, Side Zone Upper		

0899300	Lights, Front Zone, WIn M6** M6RS M6RS M6**, Inside Steady Burn, 4lts Q Bez	<p>FRONT ZONE LOWER LIGHTS</p> <p>There will be four (4) Whelen®, 4.31" high x 6.75" wide x 1.37" deep lights installed on face above the headlights, in a common bezel matching the one for the headlamps per following.</p> <p>One (1) Model M6** flashing light installed in the left side outside position. The left side outside warning light to include red LEDs.</p> <p>One (1) Model M6RS steady burning light installed in the left side inside position. The light will include red LEDs.</p> <p>One (1) Model M6RS steady burning light installed in the right side inside position. The light will include red LEDs.</p> <p>One (1) Model M6** flashing light installed in the right side outside position. The right side outside warning light to include red LEDs.</p> <p>The lens color(s) to be clear.</p> <p>The housing to be polished and the trim shall be chrome.</p> <p>There will be a switch in the cab on the switch panel to control the lights.</p>
0558676	Daytime Running Lights, Headlights, Qtm, Vel/Imp, Enf/AXT-MUX, DCF (Low Beam)	<p>DAYTIME RUNNING LIGHTS (HEADLIGHTS)</p> <p>The low-beam headlights used as daytime running lights will be activated with the following measures:</p> <ul style="list-style-type: none"> Ignition switch is turned on Parking brake is released <p>These lights will be deactivated with any one of the following measures:</p> <ul style="list-style-type: none"> Headlight switch is turned on High-beam flash is turned on Parking brake is set
0653937	Flasher, Headlight Alternating	<p>HEADLIGHT FLASHER</p> <p>The high beam headlights will flash alternately between the left and right side.</p> <p>There will be a switch installed in the cab on the switch panel to control the high beam flash. This switch will be live when the battery switch and the emergency master switches are on.</p> <p>The flashing will automatically cancel when the hi-beam headlight switch is activated or when the parking brake is set.</p>
0747228	Lights, Side Zone Lower, WIn M6**, M6**, M6**, 6Lts	<p>SIDE ZONE LOWER LIGHTING</p> <p>There will be six (6) Whelen®, Model M6**, 4.31" high x 6.75" long x 1.37" deep flashing LED warning lights with chrome trim installed per the following:</p> <ul style="list-style-type: none"> Two (2) lights located, one (1) each side on the bumper extension. The driver's side, side front light to include red warning LEDs and the passenger's side, side front light to include red warning LEDs. Two (2) lights located, one (1) each side of cab rearward of crew cab doors. The driver's side, side middle light to include red warning LEDs and the passenger's side, side middle light to include red warning LEDs. Two (2) lights located, one (1) each side above rear wheels. The driver's side, side rear light to include red warning LEDs and the passenger's side, side rear light to include red warning LEDs. <p>The warning light lens color(s) to be clear.</p> <p>There will be a switch in the cab on the switch panel to control the lights.</p>
0894842	Lights, Rear Zn Lwr, WIn M6*, For Tail Lt Housings	<p>REAR ZONE LOWER WARNING LIGHTS</p> <p>There will be two (2) Whelen®, Model M6**, 4.31" high x 6.75" wide x 1.37" deep flashing LED warning lights located in the rear tail light housings of the apparatus per the following:</p> <ul style="list-style-type: none"> The driver's side rear light to be red. The passenger's side rear light to be red. The lens color(s) to be clear. <p>There will be a switch located in the cab on the switch panel to control the lights.</p>
0809546	Light, Rear Zone Up, WIn L31H5F Beacons, Red w/Clear Lens, 2Lts	<p>REAR ZONE UPPER WARNING LIGHTS</p> <p>There will be two (2) Whelen®, Model L31H5F, 4.00" high x 7.18" in diameter beacons with red LEDs and clear domes mounted high at the rear of the apparatus, one to each outer edge of the body.</p> <p>There will be a switch in the cab on the switch panel that controls the beacons when the battery switch and emergency master switch is on.</p>
0006551	Not Required, Lights, Rear Upper Zone Blocking	
0791501	Light, Traffic Directing, WIn TAL65, 36" Long LED, Aerials	<p>TRAFFIC DIRECTING LIGHT</p> <p>There will 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.</p> <p>The Whelen, Model TACTL5, control head will be included with this installation.</p> <p>The controller will be energized when the battery switch is on.</p> <p>The auxiliary flash not activated.</p>
0530074	Location, TDL, On Top of Body Below Turntable w/Treadplate Box	<p>This traffic directing light will be mounted on top of the body below the turntable with a treadplate box at the rear of the apparatus.</p>

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0530282	Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	The traffic directing light control head will be located in the driver side overhead switch panel in the right panel position. Item # 9.
0781579	Receptacle, 15/20A 120V 3-Pr 3-Wr, NEMA 5-20R SB Dup, 1st, Interior Cab	<p>120 VOLT RECEPTACLE</p> <p>There will be two (2), 15/20 amp 120 volt AC three (3) wire straight blade duplex receptacle(s) with interior stainless steel wall plate(s), installed in each EMS cabinet, front wall upper inside corner, when looking inside cabinet from crew cab. Directly next to the 12V buss bar. The NEMA configuration for the receptacle(s) will be 5-20R.</p> <p>The receptacle(s) will be powered from the shoreline inlet.</p> <p>There will be a label installed near the receptacle(s) that state the following:</p> <p>Line Voltage Current Rating (amps) Phase Frequency</p>
0519934	Not Required, Brand, Hydraulic Tool System	
0649753	Not Required, PTO Driven Hydraulic Tool System	
0755095	Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH	<p>FOUR (4)-SECTION 107 FOOT AERIAL LADDER CONSTRUCTION STANDARDS</p> <p>The ladder will be constructed to meet all of the requirements as described in the current edition of applicable NFPA standards.</p> <p>The aerial device will be a true ladder type device; therefore ladders attached to booms will not be considered.</p> <p>These capabilities will be established in an unsupported configuration.</p> <p>All structural load supporting elements of the aerial device that are made of a ductile material will have a design stress of not more than 50 percent of the minimum yield strength of the material based on the combination of the live load and the dead load. This 2:1 structural safety factor meets the current NFPA standard.</p> <p>All structural load supporting elements of the aerial device that are made of non-ductile material will have a design stress of not more than 20 percent of the minimum ultimate strength of the material, based on the combination of the rated capacity and the dead load. This 5:1 safety factor meets the current NFPA standard.</p> <p>Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire core for increased flexibility. The wire rope will be galvanized to reduce corrosion.</p> <p>The aerial base pivot bearings will be maintenance free type bearings and require no external lubrication.</p> <p>The aerial device will be capable of sustaining a static load one and one-half times its rated tip load capacity (live load) in every position in which the aerial device can be placed when the vehicle is on a firm level surface.</p> <p>The aerial device will be capable of sustaining a static load one and one-third times its rated tip load capacity (live load) in every position the aerial device can be placed when the vehicle is on a slope of five degrees downward in the direction most likely to cause overturning.</p> <p>With the aerial device out of the cradle and in the fully extended position at zero degrees elevation, a test load will be applied in a horizontal direction normal to the centerline of the ladder. The turntable will not rotate and the ladder will not deflect beyond what the product specification allows.</p> <p>All welding of aerial components, including the aerial ladder sections, turntable, pedestal, and outriggers, will be in compliance with the American Welding Society standards. All welding personnel will be certified, as qualified under AWS welding codes.</p> <p>The aerial device will be capable of operating in conditions of wind up to 50 mph and icing conditions of up to a 0.25" coating over the aerial structure.</p> <p>All of the design criteria must be supported by the following test data:</p> <p>Strain gage testing of the complete aerial device</p> <p>Analysis of deflection data taken while the aerial device was under test load</p> <p>The following standards for materials are to be used in the design of the aerial device:</p> <p>Materials are to be certified by the mill that manufactured the material</p> <p>Material testing that is performed after the mill test will be for verification only and not with the intent of changing the classification</p> <p>All welded structural components for the ladder will be traceable to their mill lots.</p> <p>LADDER CONSTRUCTION</p> <p>The ladder is comprised of four (4) sections.</p> <p>The ladder will have the capability to support a minimum of 750 lb at the tip in the unsupported configuration, based upon 360 degree rotation, up to full extension and from -10 degrees to +77 degrees.</p> <p>The ladder (handrails, baserails, trusses, K-braces and rungs) will be constructed of high strength low alloy steel, minimum 100,000 pounds per square inch yield, with full traceability on all structural members.</p> <p>Each section will be trussed diagonally, vertically and horizontally using welded steel tubing.</p> <p>All ladder rungs are round and welded to each section utilizing "K" bracing for lateral and torsional rigidity.</p> <p>The inside width dimensions of the ladder will be:</p> <p>Base Section: 41.87" Lower Mid Section: 34.88"</p>

Upper Mid Section:

27.87"

Fly Section:

21.63"

The height of the handrails above the centerline of the rungs will be:

Base Section:

26.28"

Lower Mid Section:

22.68"

Upper Mid Section:

20.06"

Fly Section:

17.32"

The ladder will be designed to provide continuous egress for firefighters and civilians from an elevated position to the ground.

The egress section will be designed to maintain the rated load of the aerial device. It will be bolted on for easy replacement. There will be a lift eye welded on to each side of the egress.

VERTICAL HEIGHT

The ladder will extend to a minimum height of 107' above the ground at full extension and elevation. The measurement of height will be consistent with NFPA standards.

HORIZONTAL REACH

The rated horizontal reach will be 100'. The measurement of horizontal reach will be consistent with NFPA standards.

TURNTABLE

The upper turntable assembly will connect the aerial ladder to the turntable bearing. The steel structure will have a mounting position for the aerial elevation cylinders, ladder connecting pins, and upper turntable operator's position.

The turntable will be coated with a non-skid, chemical resistant material in the walking areas. The stepping surfaces will meet the skid-resistance requirements of the current NFPA standard.

The turntable handrails will be a minimum 42.00" high and will not increase the overall travel height of the vehicle. The handrails will be constructed from aluminum and have a slip resistant knurled surface. The turntable vertical handrail spacing will be designed with a 44.00" wide x 27.00" high opening to allow for equipment to pass through from the ground to the aerial ladder.

The opening will be located at the center, rear of the turntable.

ELEVATION SYSTEM

Dual 5.50" diameter elevating cylinders will be mounted on the underside of the base section of the ladder, one (1) on each side. One (1) 2.25" diameter stainless steel pin will fasten each cylinder to the ladder and one (1) 2.50" diameter stainless steel pin will fasten each cylinder to the turntable. The pins will have 125,000 psi minimum yield strength and will be secured with 0.50" Grade 8 bolts with castle nut and cotter pin. The bolts are to ensure that the pins do not walk out of the mounting brackets on the turntable and base section.

The elevating cylinders will be mounted utilizing maintenance-free spherical bearings on both ends of the cylinders. The aerial base pivot bearings will be maintenance-free type bearings with no external lubrication required. **The cylinders will function only to elevate the ladder and not as a structural member to stabilize the ladder side movement. The elevating cylinders will be provided with pilot-operated check valves on the barrel and rod side of the piston to prevent movement of the ladder in case of a loss of hydraulic pressure.**

The operation envelope will be 10 degrees below horizontal to 77 degrees above horizontal.

The elevation system will be designed following NFPA standards. The elevation hydraulic cylinders will incorporate cushions on the upper limit of travel.

The lift cylinders will be equipped with integral holding valves located in the cylinder to prevent the unit from descending should the charged lines be severed, at any point within the hydraulic system and to maintain the ladder in the bedded position during road travel. The integral holding valves will NOT be located in the transfer tubes.

The elevation system will be controlled by the microprocessor. Linear transducers will measure the extension of the elevation cylinder. The microprocessor will provide the following features:

Collision avoidance of the elevation system to prevent accidental body damage

Automatic deceleration when the aerial device is lowered into the cradle

Automatic deceleration at the end of stroke, in maximum raise and lower positions

Deceleration of the aerial device at the limits of travel.

EXTENSION/RETRACTION SYSTEM

A hydraulically powered, extension and retraction system will be provided through dual hydraulic cylinders and wire ropes. Each set will be capable of operating the ladder in the event of a failure, of the other. The extension cylinder rod will be chrome plated to provide smooth operation of the aerial device and reduce seal wear. The extension/retraction cylinders will be equipped, with integral holding valves, to prevent the unit from retracting should the charged line be severed, at any point within the hydraulic system. The integral holding valves will NOT be located in the transfer tubes.

Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire for increased flexibility. The wire rope will be galvanized to reduce corrosion.

The extension/retraction system will be controlled by the microprocessor. Linear transducers will measure the ladder extension. The microprocessor will provide the following features:

Automatic deceleration at the end of stroke, in maximum extend and retract positions

All sheaves will require lubrication. They will have bronze bushings and grease zerks.

MANUAL OVERRIDE CONTROLS

Manual override controls will be provided for all aerial and stabilizer functions.

LADDER SLIDE MECHANISM

UHMW polyethylene wear pads will be used between the telescoping ladder sections, to provide greater bearing surface area for load transfer. Adjustable slide pads will be used to control side play between the ladder sections.

ROTATION SYSTEM

The aerial will be supplied with a powered rotation system as outlined in NFPA s
The hydraulic rotation motor will provide continuous rotation under all rated con
and be supplied with a brake to prevent unintentional rotation. One (1) hydraulic
driven, planetary gear box with drive speed reducers will be used to provide infinite and
minute rotation control throughout the entire rotational travel. One (1) spring applied,
hydraulically released disc type swing brake will be furnished to provide positive braking
of the turntable assembly. Provisions will be made for emergency operation of the rotation
system should complete loss of normal hydraulic power occur. The hydraulic system will
be equipped with pressure relief valves which will limit the rotational torque to a
nondestructive power. The gearbox will have a minimum continuous torque rating of
80,000 in. lbs. and a minimum intermittent rating of 160,000 in. lbs. The turntable bearing,
ring gear teeth, pinion gear, planetary gearbox, and output shaft will be certified by the
manufacturer of the components for the application.

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The rotation system will be controlled by the microprocessor. The microprocessor will
provide the following features:

- Collision avoidance to prevent accidental body damage
- Prevent the aerial from being rotated into an unstable condition.

ROTATION INTERLOCK

The microprocessor will be used to prevent the rotation of the aerial device to the side in
which the stabilizers have not been fully deployed (short-jacked). The microprocessor will
allow full and unrestricted use of the aerial, in the 180 degree area, on the side(s) where
the stabilizers have been fully deployed. The system will also have a manual override to
comply with the current edition of applicable NFPA standards.

LADDER CRADLE INTERLOCK SYSTEM

A ladder cradle interlock system will be provided through the microprocessor to prevent
the lifting of the aerial device from the nested position until the operator places all the
stabilizers in a load supporting configuration. A switch will be installed at the boom
support to prevent operation of the stabilizers once the aerial has been elevated from the
nested position..

AERIAL TORQUE BOX/PEDESTAL

The pedestal assembly will be a welded assembly made of high strength 0.25" plate. The
vertical member will be a 0.375" reinforced wall cylinder with a 28.00" outside diameter
and will connect the rotation bearing mounting plate to the lower substructure.
The pedestal assembly will be bolted to the chassis frame with 0.88" diameter Grade 8
bolts, and will be utilized to mount the outrigger jacks and reservoir for the aerial
hydraulic system.

There will be a 5/8" gap between the torque box and the frame rails to promote drying of
the surfaces and reduce the effect of corrosion.

LOAD CAPACITIES

The following load capacities will be established with the stabilizers at full horizontal
extension and placed in the down position to level the truck and to relieve the weight from
the tires and axles. Capacities will be based upon full extension and 360 degree rotation.
A load chart, visible at the operator's station, will be provided. The load chart will show the
recommended safe load at any condition of the aerial device's elevation and extension.

50 MPH WIND CONDITIONS/WATERWAY DRY

Degrees of Elevation

- 10 to 9
- 10 to 19
- 20 to 29
- 30 to 39
- 40 to 49
- 50 to 59
- 60 to 69
- 70 to 77

Egress

- 750
- 750
- 750
- 750
- 750
- 750
- 750
- 750

Fly

-
-
-
-

- 250
- 500
- 750

Upper Mid

-
-
-

- 250
- 500
- 1000
- 1000

Lower Mid

-
-
-

500
750
1000
1000
Base

-
-
-

500
500
1000
1000
1000

50 MPH WIND CONDITIONS/WATERWAY CHARGED

Degrees of Elevation

-10 to 9
10 to 19
20 to 29
30 to 39
40 to 49
50 to 59
60 to 69
70 to 77

Egress

500
500
500
500
500
500
500
500

Fly

-
-
-
-

250

500

500

Upper Mid

-
-
-

250

500

750

1000

Lower Mid

-
-
-

250

500

750

1000

1000

Base

-
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0762413	Light, Boom Support, Amdor AY-LB-12HW012, 12" LED	AERIAL BOOM SUPPORT LIGHT There will be one (1) Amdor®, Model AY-LB-12HW012, 190 lumen, 12" long, white LED mounted on the boom support cradle. This light will be activated when the aerial master is activated.	Item # 9.
0799571	Provision for Boom Support Compartment, Stock Unit Only	FUTURE BOOM SUPPORT COMPARTMENT PROVISION There will be 0.50" of wheelbase added to allow for a boom support compartment to be added at a future time.	
0680820	Boom Panel, One, Sized to Match Opposite Side Box	AERIAL BOOM PANEL There will be one boom panel provided on the base section on the left side of the aerial device while viewed from the turntable. This boom panel will be sized to match the storage box on the opposite side. The boom panel will be painted #90 red. The boom panel will be designed so no mounting bolts are in the face of the panel. This will keep the lettering surface free of holes.	
0526890	Not Required, Indicator, Extension		
0723719	Steps, Folding, Four, Aerial Device, Trident	FOLDING STEPS One (1) set of folding steps will be provided at the tip of the ladder. An additional set of folding steps will be provided at the base of the fly section. The steps will be bright finished with a black tread coating on the stepping surface. Each step will have no integrated light.	
0688232	Rung Covers, Aerial Device	AERIAL DEVICE RUNG COVERS Each rung will be covered with a secure, heavy-duty, fiberglass pultrusion that incorporates an aggressive, no-slip coating. The rung covers will be glued to each rung and will be easily replaceable should the rung cover become damaged. The center portion of each rung cover will be black and the outside 2.00" edge at each side will be safety yellow. Under no circumstances will the rung covers be fastened to the rungs using screws or rivets. The rung covers will have a 10-year, limited warranty.	
0728974	Box, Stokes/Backboard Stg,w/Cover,Base Section,In Place of Boom Panel,w/Door Sw	STOKES AND BACKBOARD STORAGE BOX There will be one (1) aluminum storage box(es) provided at the base section of the aerial ladder on the right side of the aerial device while viewed from the turntable. The box will be painted to match the aerial device with the face of the box painted to match the boom sign color. The box (es) will be located in place of the aerial boom panel and have a hinged cover with pair of rubber draw latches to secure the equipment. The cover will have the same finish as the box. The cover will be tied in to the open door indicator circuitry when in the open position. A divider will be provided to separate the stokes basket and the backboard. The box(es) will have no louvers. The size of the stokes basket will be 85.00" long x 25.00" wide x 8.00" high. The size of the backboard will be 72.00" long x 18.00" wide x 2.00" high. The maximum capacity of each box will be 75 lb.	
0680785	Limited Retraction, Aerial	LIMITED RETRACTION The aerial device will have limited retraction.	
0784202	Brackets Only, Roof Ladder, Base Section, Inboard of Boom Panel, Ascendant	LADDER STORAGE MOUNTING BRACKETS Mounting brackets for a single roof ladder will be provided on the right side of the aerial device while viewed from the turntable. A total of one (1) roof ladder(s) will be stored on the aerial base section. The bracket(s) will be located inboard of the boom panel at the base section and include straps to secure the ladder(s). The mounting brackets will accommodate a 14' Duo-Safety 875-DR roof ladder(s) to be stored individually as determined by the type of aerial device and the available space.	
0623645	Aerial Stability Test, Maximum Tip Options	STABILITY TEST An aerial stability test will be run on the apparatus using the maximum weight allowance for tip options.	
0601972	Lights, Turntable Walkway, P25, LED	LIGHTS FOR TURNTABLE WALKWAY There will be white LED lights provided at the aerial turntable. The lights will be located to illuminate the entire walking surface of the turntable including the area around the turntable console. These lights will be activated by the aerial master switch.	
0601949	Light, Turntable Console, TecNiq T-10, LED Strip Light	TURNTABLE CONSOLE LIGHTING There will be one (1) TecNiq, Model T10, white LED light strip mounted in the turntable console cover to illuminate the controls located on both the upper and lower portion of the turntable control station. These lights will be activated by the aerial master switch.	

ROTATION BEARING COVER

A cover will be fitted over the aerial rotation bearing and drive pinion gear(s). The cover aluminum treadplate and attached to the underside of the turntable deck.

Item # 9.

INFORMATION CENTER

There will be an information center provided. The information center will operate in temperatures from -40 to 158 degrees Fahrenheit. The information center will employ a Linux operating system and a 7.00" (diagonal measurement) LCD display. The LCD will have a minimum 1000nits rated, color display. The LCD will be sunlight readable. The LCD display will be encased in an ABS, gray plastic housing with a Pierce decal. There will be five (5), weather-resistant user interface switches provided. The LCD display can be changed to an available foreign language.

Operation

The information center will be designed for easy operation in everyday use. There will be a page button to cycle from one screen to the next screen in a rotating fashion. A video button will allow an NTSC signal into the information center to be displayed on the LCD. If any button is pressed while viewing a video feed, the information center will return to the vehicle information screens. There will be a menu button to provide access to maintenance, setup, and diagnostic screens. All other button labels will be specific to the information being viewed.

General Screen Design

Where possible, background colors will be used to provide vehicle information *At A Glance*. If the information provided on a screen is within acceptable limits, a green background color will be used. If the information provided on a screen is not within acceptable limits, an amber background color will indicate a caution condition and a red background color will indicate a warning condition.

Every screen in the information center will include the aerial tip temperature, the time (12- or 24-hour mode) and a text Alert Center. The time will be synchronized between all Command Zone color displays located on the vehicle. The Alert Center will display text messages for audible alarms. The text messages will identify any items causing the audible alarm to sound. If more than one (1) audible alarm is activated, the text message for each alarm will cycle every second until the problems have been resolved. The background for the Alert Center will change to indicate the severity of the warning message. Amber will indicate a caution condition and red will indicate a warning condition. If a warning and a caution condition occur simultaneously, the red background color will be shown for all Alert Center messages.

A label will be provided for each button. The label will indicate the function for each active button for each screen. If the button is not utilized on specific screens, it will have a button label with no text.

Symbols will accurately depict the aerial device type the information pertains to such as rear mount ladder, rear mount platform, mid-mount ladder or mid-mount platform.

Page Screens

The Information center will include the following pages:

The Aerial Main and Load Chart page will indicate the following information:

Rungs Aligned and Rungs Not Aligned will be indicated with text and respective green or red colored ladder symbols.

Ladder Elevation will be indicated via a fire apparatus vehicle with ladder symbol with the degree of elevation indicated between the vehicle and ladder.

Water Flow (if applicable) will be indicated via a water nozzle symbol and text indicating flow / time.

Breathing Air Levels will be indicated via an air bottle symbol and text indicating the percent (%) of air remaining. A green bar graphs shown inside the bottle will indicate oxygen levels above 20 percent. A red bar graph will indicate oxygen levels at or below 20 percent. When oxygen levels are at or below 10 percent the red bar graph will flash.

The Aerial Load Chart will indicate the load limit on each section of the ladder based on actual ladder position and water flow (if applicable).

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

The Aerial Reach and Hydraulic Systems page will indicate the following information:

Aerial Hydraulic Oil Temperature will be indicated with symbol and text. *At a glance* features will be utilized.

Aerial Hydraulic Oil Pressure will be indicated with a symbol and text. *At a glance* features will be utilized.

The following calculations will be indicated on a representative vehicle symbol:

Aerial Device Extension length

Aerial Device Height indicating the height of the aerial device tip from the ground.

Aerial Device Reach indicating the horizontal distance the aerial reaches from the turntable.

Aerial Device Angle indicating the angle from the vehicle which the device is at.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

The Level Vehicle page will indicate the following information:

The grade of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of grade shown in text format. The symbol will tilt dependent on the vehicle grade.

The slope of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of slope shown in text format. The symbol will tilt dependent on the vehicle slope.

Outriggers status will be indicated via a colored symbol for each outrigger present. Each outrigger status will be defined as one of the following:

Outrigger stowed indicated with a silver pan located close to the vehicle

Outrigger fully extended indicated with a fully deployed green outrigger

Outrigger short-jacked indicated by a yellow outrigger partially deployed

Outrigger not set indicated by a red outrigger that is not set on the ground

A text box located on the vehicle symbol will be utilized to identify the overall status of the outrigger leveling system. The following status will be indicated in the text box:

Deployed status will indicate all outriggers are properly set on the ground at full extension

Shortjacked status will indicate one or more outriggers are set on the ground but not fully extended.

Not Set status will indicate one or more outriggers is not properly set on the ground.

Stowed status will indicate all outriggers are stowed for vehicle travel.

A bedding assist alert will indicate that the aerial device is being aligned by the Command system as the operator lowers the aerial device into the cradle with the joystick.

Item # 9.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

Menu Screens

The following screens will be available through the Menu button:

The View System Information screen will display aerial device hours, aerial PTO hours, ladder aligned for stowing, aerial rotation angle, total water flow (if applicable), and aerial waterway valve status (if applicable).

The Set Display Brightness screen will allow brightness increase and decrease and include a default setting button.

The Configure Video Mode screen will allow setting of video contrast, video color and video tint.

The Set Startup screen allows setting of the screen that will be active at vehicle power-up.

The Set Date and Time screen has a 12- or 24-hour format, and allows setting of the time and date.

The View Active Alarms screen shows a list of all active alarms including the date and time of each alarm occurrence and shows all alarms that are silenced.

The System Diagnostics screen allows the user to view system status for each module and its respective inputs and outputs. Viewable data will include the module type and ID number; the module version; and module diagnostics information including input or output number, the circuit number connected to that input or output, the circuit name (item connected to the circuit), status of the input or output, and other module diagnostic information.

Aerial calibrations screen indicates items that may be calibrated by the user and instructions to follow for proper calibration of the aerial device.

Button functions and button labels may change with each screen.

Lower Control Station

A lower control station will be located at the rear of the apparatus in an easily accessible area.

The controls and indication labels will be illuminated for nighttime operation. The following items will be furnished at the lower control station and will be clearly identified and conveniently located for ease of operation and viewing:

Level assist switch

Override switch to override microprocessor

Emergency power unit switch

Turntable Control Station

There will be one (1) device control station located on the left side of the turntable so the operator may easily observe the ladder tip while operating the controls. All elevation, extension and rotation controls will operate from this location. The controls will permit the operator to regulate the speed of the aerial functions, within the safe limits, as determined by the manufacturer and NFPA standards. Each control will be equipped, with a positive lock to hold the control in a neutral position, preventing accidental activation. In addition to the neutral lock, a console cover will be provided at the turntable control station. The controls will be so designed to allow the turntable control station to immediately override the tip controls, if equipped, even if the ladder is being operated by the tip controls.

The following items will also be provided at the turntable control station, clearly identified, lighted for nighttime operation and conveniently located for ease of operation and viewing:

Intercom controls

Tip tracking light switch

Emergency stop switch

Emergency power unit switch

Operator's load chart

Two (2) position switch for selecting aerial operational speed

High Idle

The high idle will be controlled by the microprocessor. The microprocessor will automatically adjust the engine rpm to compensate for the amount of load placed upon the system. The system will include a safety device that allows activation of the high idle, only when the parking brake is set and the transmission is placed in neutral.

Stabilizers, Ascendant Tandem, Rear Mount Steel, 16' Spread, 18" Pen, MUX

STABILIZERS

The vehicle will come equipped with a stabilization system consisting of four (4) hydraulic operated stabilizers. The front two (2) will be out and down style, the rear two (2) will be only. This system will meet or exceed all requirements of the NFPA specifications related to stabilization and setup on sloped surfaces.

Item # 9.

The stabilizer/leveling jacks will have a maximum spread of 16' measured from the centerline of the jack footpads when the beams are fully extended. The beams will be 6.88" wide x 9.00" high with 3/4" thick top and bottom plates and 1/2" thick sides of 100,000-PSI minimum yield strength steel. The cylinders will have pilot-operated check valves with thermal relief designed to insure that the beams will not drift out of the stowed position during travel. Wear pads will guide the stabilizers.

The horizontal extension cylinders will be totally enclosed within the beams and will incorporate telescoping hydraulic tubing to supply the jack cylinder hydraulic power. Stabilizer hydraulic hoses will remain stationary during operation of the stabilizers to prevent hose wear and potential failure. The cylinders will be equipped with decelerators to reduce the speed of extension and retraction when the beams are near the fully retracted and extended positions. The stabilizer extension hydraulic cylinders will have the following dimensions: 2.25" bore, 1.38" rod, and 39.25" stroke.

The vertical jack cylinders will be capable of 18.00" ground penetration. The cylinders will be supplied with pilot operated check valves on each jack cylinder to hold the cylinder in the stowed or working position, should a charged line be severed at any point in the hydraulic system. For safety, the integral holding valves will be located in the cylinder base, NOT in the transfer tube. Vertical jack cylinder rods will be fully enclosed by a telescoping inner box to protect the cylinder rods from damage. The stabilizer jack hydraulic cylinders will have the following dimensions: 4.25" bore, 3.00" rod, and 28.88" stroke.

Each stabilizer jack will have a pan that will be a maximum of 14.00" wide so as to allow the extension of the stabilizer between parked cars or other obstacles. This pan will serve as a protective guard and a mounting surface for warning lights. The top, forward, and rear edges will be flanged back 90 degrees for added strength.

STABILIZER PADS

The stabilizer footpad will be 12.00" in diameter. The footpad will be attached to the jack cylinder rod by means of a machined ball at the end of the jack cylinder rod which mates to a socket machined into the footpad. The footpad will have the ability to pivot 20 degrees from horizontal in any direction to allow setup on uneven terrain.

AUXILIARY STABILIZER PADS

An auxiliary ground pad will be supplied for each stabilizer to provide additional load distribution on soft surfaces. The pads will be 31" x 26" and made from lightweight composite material. The ground pressure will not exceed 75 pounds per square inch when the ground pads are used and the apparatus is fully loaded and the aerial device is carrying its rated capacity in any position. The pads will be stored in a double stacked configuration, two (2) behind each rear tandem axle in a single bracket.

STABILIZER CONTROLS

A portable stabilizer control box will be provided. The control box will be weatherproof and oil resistant. Each function and indicator light will be labeled on a metal photo panel. The control box can be taken as far away as 15' from the vehicle with an extension cable.

The stabilizer control box will include the following:

- One (1) green power indicator light for stabilizer control that will be illuminated when the aerial master and "PTO" switches in the cab are activated.
- Four (4) electric toggle switches for stabilizers: each toggle switch will control the extend/retract (front only) and raise/lower of its respective stabilizer to allow vehicle set up in restricted areas and/or on uneven surfaces.
- Auto leveling assist switch: The outrigger control system will incorporate a computerized self leveling system in addition to the standard outrigger controls. The operator will have the option to manually or automatically level the truck. The computerized system will ensure full outrigger extension, proper jack penetration, and will level the vehicle within 1/2 a degree of level for safe operation of the aerial device.
- One (1) electric toggle switch for the engaging the emergency power unit.
- One (1) red "stabilizer not stowed" indicator light: this light will illuminate when the stabilizers are not in the fully stowed position.
- Two (2) fully extended beams green indicator lights: these lights will be illuminated when each of the respective stabilizer beams are fully extended.
- Four (4) firm on ground green indicator lights: each light will be illuminated when its respective stabilizer shoe is in the load supporting condition.

Each toggle switch will activate the engine fast idle automatically.

Manual override will be supplied for each stabilizer control valve.

A stabilizer deployment audible warning alarm will be provided and activated by the stabilizer movement.

A "Stabilizers Not Stowed" indicator will be provided in the driver's compartment. It will illuminate automatically whenever the stabilizers are not fully stowed to prevent damage to the apparatus if moved. The stabilizer system will also be wired to the "Do Not Move Indicator Light", which will flash whenever the apparatus parking brake is not fully engaged and the stabilizers are not fully stowed.

CRADLE INTERLOCK SYSTEM

A cradle interlock system will be provided, to prevent the lifting of the aerial from the nested position, until the operator has positioned all the stabilizers in a load supporting configuration. A switch will be installed at the cradle, to prevent operation of the stabilizers once the aerial has been elevated from the nested position.

Stabilizer Pan and Trim Material

STABILIZER PAN AND TRIM MATERIAL

The aerial stabilizer pans will be polished stainless steel and the aerial stabilizer trim will be polished stainless steel.

0809974

Door, Stabilizer Control Box, MUX Aerials

STABILIZER CONTROL BOX DOOR

A vertically hinged smooth aluminum door will be provided over the stabilizer control box. The door will be hinged along the outboard edge and be provided with a Southco C2 chrome trigger lever latch.

Item # 9.

0615058

Stabilizer Placement, Cameras w/Command Zone Color Display, 1 Set

STABILIZER PLACEMENT

There will be two (2) cameras provided and installed on the body, one (1) directly above each stabilizer. The cameras will be activated with a switch in the cab and will provide a picture to specify the fully extended stabilizer position allowing the driver the ability to position the vehicle with the proper clearance for stabilizer deployment.

0793039

Hydraulic System, Ascendant Tandem Axle

HYDRAULIC SYSTEM

All hose assemblies will be assembled and crimped by the hose manufacturers certified technician.

All manufacturing employees responsible for the installation of hydraulic components will be properly trained. Training will include: proper handling, installation, torque requirements, cleanliness and quality control procedures for hydraulic components.

Hoses used in the aerial hydraulic system will be of a premium quality hose with a high abrasion resistant cover. All pressure hoses will have a working pressure of 4000 psi and a burst pressure rating of 16,000 psi.

All hydraulic fittings and tubing will be plated to minimize corrosion.

The fitting will use an O-ring seal where possible to minimize hydraulic leaks.

An interlock will be provided that prevents activation of the hydraulic pump until the transmission is placed in neutral and the parking brake is set as outlined in the current NFPA standard.

The system will meet the performance requirement of the current NFPA standard, which requires adequate cooling less than 2.5 hours of operations.

All hydraulic components that are non-sealing whose failure could result in the movement of the aerial will comply with current NFPA standards and have burst strength of 4:1.

Dynamic sealing components whose failure could cause aerial movement will have a margin of 2:1 on maximum operating pressure per the current NFPA standard.

All hydraulic hoses, tubes, and connections will have a minimum burst strength of 4:1 per the current NFPA standard.

A chassis mounted positive displacement piston pump for consistent pressure and rapid responses will supply hydraulic power for all aerial operations. The positive displacement pump will provide 3,150psi. The hydraulic pump will be solely dedicated to aerial operations.

Each aerial will be evaluated as to the region and climate where it will be used to determine the optimum viscosity and proper oil grade. Oil viscosity will be based on an optimum range of 80 to 1000 SUS during normal aerial use. Before shipment of the unit, an oil sample will be taken and analyzed to confirm the oil is within the allowable ISO grade tolerance.

The aerial hydraulic system will have a minimum oil cleanliness level of ISO 18/15/13 based on the ISO 4406:1999 cleanliness standard. Each customer will receive a certificate of actual cleanliness test results and an explanation of the rating system.

Each aerial will include an oil sample port, identified with a yellow dust cap and a label, for subsequent customer testing.

Ball valves will be provided in the hydraulic suction lines to permit component servicing without draining the oil reservoir.

The aerial will incorporate the use of trombone steel tubes inside the stabilizer beams to eliminate hydraulic hose wear and leaks.

Hydraulic power to the ladder will be transferred from the pedestal by a hydraulic swivel.

The system hydraulic pressure will be displayed on the turntable display.

The hydraulic system will be additionally protected from excessive pressure by a secondary pressure relief valve set at 3,150 psi. In the event the main hydraulic pump compensator malfunctions, the secondary relief will prevent system damage.

HYDRAULIC CYLINDERS

All cylinders used on the aerial device will be produced by a manufacturer that specializes in the manufacture of hydraulic cylinders.

Each cylinder will include integral safety holding cartridges.

Each cylinder will be designed to a minimum safety factor of 4:1 to failure.

All safety holding cartridges will be installed at the cylinder manufacturer, in a controlled clean environment to avoid possible contamination and or failure.

POWER TAKEOFF/HYDRAULIC PUMP

The apparatus will be equipped with a power takeoff driven by the chassis transmission and actuated by an electric shift, located inside the cab. The power takeoff which drives the hydraulic pump will meet all the requirements for the aerial unit operations.

An amber indicator light will be installed on the cab instrument panel to notify the operator that the power takeoff is engaged.

An interlock will be provided that allows operation of aerial power only after the chassis spring brake has been set and the chassis transmission has either been placed in the neutral position or drive position after the driveline has been disengaged from the rear axle.

The hydraulic system will be supplied by a variable displacement load and pressure compensating piston pump. The pump will meet the demands of all three simultaneous aerial functions. The pump will provide proper flow for single aerial function with the engine at idle speed. A switch will be provided on the control console to increase the engine speed for multiple function operation.

EMERGENCY PUMP

The hydraulic system will be designed with an auxiliary power unit meeting the guidelines of the current NFPA standard.

The aerial will be equipped with an emergency hydraulic pump, electrically driven from the truck batteries. The pump will be capable of running for 30 minutes for limited aerial functions to stow the unit in case of a main pump or truck system failure. A momentary switch will be located at the stabilizer and aerial control locations to activate the emergency pump.

AERIAL CONTROL VALVE

The aerial hydraulic control valve will be designed with special spool flows, limiting the oil flow for the designed function speed. The valve will be electrically controlled and be located in

console with the handles oriented downward for manual operation. The activation handles will be spaced a minimum of 3.50" for ease of operation. The valve spools will be designed to downstream pressure, in the neutral position and allow proper sealing of any cylinder h cartridge.

Item # 9.

OIL RESERVOIR

The oil reservoir will have a minimum capacity of 38 gallons. The oil fill location will be easily accessible and be labeled "Hydraulic Oil Only" and also indicate the grade of oil that is installed in the reservoir. The fill will have a desiccant breather filter with a water capacity of 4 fluid ounces and a 5 micron rating. A drain hose will be included and will terminate with a quarter turn ball valve.

Two suction ports will be provided, one for the main hydraulic pump and one for the emergency pump. The main suction will be slightly elevated off the bottom of the reservoir and include a 100 mesh suction strainer. The emergency suction port will be closer to the bottom of the reservoir to provide some reserve oil for emergency operation.

A six (6) disc type magnetic drain will also be provided to collect any ferrous contaminants. A float type sending unit in the reservoir will provide an indication of oil level on an electronic display. A temperature sending unit in the reservoir will provide indication of the oil temperature on an electronic display.

The hydraulic oil reservoir will be labeled per the current edition of NFPA standard.

RETURN FILTER

The low pressure oil return filter will be integrated with the hydraulic manifold and designed to prevent oil loss during filter change. A 50 psi bypass will be included to protect the element and hydraulic system during lower than normal operating temperatures. The system will incorporate the following filter to provide dependable service:
return filter: beta 200 at 6 micron

0793037

Swivels, D-Series w/Encoder, ASL-Tandem/Tiller, MUX (28 Collector Rings)

HYDRAULIC SWIVEL

The aerial ladder will be equipped with a three (3) port, high pressure hydraulic swivel which will connect the hydraulic lines from the hydraulic pump and reservoir through the rotation point to the aerial control bank. The hydraulic swivel will allow for 360 degree continuous rotation of the aerial.

ELECTRIC SWIVEL

The ladder will be equipped with an electric swivel to allow 360 degrees rotation of the aerial while connecting all electrical circuits through the rotation point. A minimum of 28 collector rings will be provided that are capable of supplying 30 amp continuous service. All collector rings will be enclosed and protected with desiccant plugs against condensation and corrosion. No oil or silicone will be used.

12-BIT ABSOLUTE ENCODER

The aerial ladder will be equipped with a 12-Bit Absolute Encoder which provides 4096 counts per shaft turn for position and direction reference.

The 12-Bit Absolute Encoder will provide a unique binary word to reference each position and direction for all 360 degrees of rotation.

If the power is interrupted for any reason, the 12-Bit Absolute Encoder will allow power to be returned to the system without having to re-zero the settings.

The 12-Bit Absolute Encoder will be an integral part of a micro-processor based control system.

ELECTRICAL SYSTEM

The standard 8 conductor cable to the tip contains 10 AWG conductors. The 107' heavy duty ladder will utilize a microprocessor-based control system. The system consist of the following components:

Item # 9.

A tethered stabilizer control will be provided. The tethered control will be weatherproof and oil resistant. A Super Bright LED indicator light will be labeled on a metal photo panel for each function. The electrical connection at the tethered control will be permanently attached by a strained relieved coil cord that will allow the operator to move 14' away from the electrical connection for operation.

Remote Stabilizer Controls

Weatherproof and oil resistant

One (1) green "power" indicator light

One (1) red "stabilizer not stowed" indicator light

One (1) electric toggle switch for auto level assist

One (1) electric toggle switch for the emergency power unit

One (1) electric toggle switch for each stabilizer to control:

Extend/retract function (front only)

Raise/lower function

One (1) green "stabilizer fully extended" indicator light for each front stabilizer

One (1) green "firm on ground" indicator light for each stabilizer

Control System Modules

Each of the control system modules will be configured as follows:

Sealed to a NEMA 4 rating

Operating range from -40 degrees F to 185 degrees F (-40 degrees C to 85 degrees C)

Communicate using J1939 data link

Two (2) diagnostic LED light

One (1) green light that illuminates when module has power (B+) and ground

One (1) red light that flashes to indicate the module is capable of communicating via the data link

Ground matrix identification system

The following control system modules will be used:

Control Module

Main controller for the system

USB connection allows for computer diagnostics

Power Module

Built-in fault sensing

Eight (8) digital outputs

Pulse width modulating (PWM) capable

10A continuous per output

Circuit protection based on actual current draw (not affected by heat)

Constant Current Module

Built-in fault sensing

Three (3) analog inputs

Eight (8) digital outputs

Pulse width modulating (PWM) capable

3A continuous per output

Circuit protection based on actual current draw (not affected by heat)

Closed Loop System

Input Module

16 software selectable (digital or analog) inputs

Output Module

16 digital outputs

Input/Output Module

Eight (8) software selectable (digital or analog) inputs

Eight (8) digital outputs

0804781 Aerial Scene Lts Separated into Aerial Tip Category and Aerial Tracking Category

0820601 SP Lights, Tip, WIn MP** LED, 4lts

TIP LIGHT

There will be four (4) Whelen® Model MP**, 5,695 lumens 12 volt DC LED lights installed at the tip of the aerial device.

One (1) light on the left side high. The left side tip light to include spot optics.

One (1) light on the left side low. The left side lower tip light to include wide flood optics.

One (1) light on the right side low. The right side lower tip light to include wide flood optics.

One (1) light on the right side high. The right side tip light to include spot optics.

The light(s) to be installed on adjustable bail bracket(s).

The painted parts of this light assembly to be black

The lights will be controlled with the tracking lights.

0802753 Lights, Tracking, WIn MP** LED, 2lts

TRACKING LIGHTS

There will be two (2) Whelen® MP**, 5,695 lumens 12 volt DC LED lights installed on the base section of the aerial device below the hand rails per the following:

One (1) will be located on the left side with left side tracking light to include wide flood optics.

One (1) will be located on the right side with right side tracking light to include wide flood optics.

The light(s) to be installed on adjustable bail bracket(s).

The painted parts of this light assembly to be black.

The tracking lights will be controlled by a switch located at the turntable only.

0653677	Lighting, Rung, LED, TecNiq, 4 Section, Base, Lower/Upper Mid, Fly	<p>LIGHTING ON AERIAL LADDER</p> <p>There will be TecNiq, Model D02 LED rung lighting provided on both sides of the aerial base, lower and upper mid, and fly sections. The lighting will be located adjacent to the rungs along the lower rail of the ladder sections and will run the length of the ladder sections. The color of the sections will be:</p> <p>The base section of the ladder to be red. The lower mid section of the ladder to be red. The upper mid section of the ladder to be red. The fly section of the ladder to be red.</p> <p>The LED rung lighting will be activated when a switch at the turntable operator's panel is activated through the master battery switch. The lights may be load managed when the parking brake is applied.</p>
0747261	Lights, Stabilizer Warn (2) Sets, Wln M6** LED, Trim Color	<p>STABILIZER WARNING LIGHTS</p> <p>There will be four (4) Whelen®, Model M6**, 4.31" high x 6.75" wide x 1.37" deep flashing LED warning lights with chrome trim provided, one (1) on each stabilizer cover panel per the following:</p> <p>The left side rear stabilizer pan warning light to include red LEDs The left side front stabilizer pan warning light to include red LEDs The right side front stabilizer pan warning light to include red LEDs The right side rear stabilizer pan warning light to include red LEDs The warning light lens color(s) to be clear The lights will be activated by the same switch as the side warning lights.</p>
0068703	Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	<p>STABILIZER BEAM WARNING LIGHTS</p> <p>Two (2) 4.00" diameter red LED flashing lights will be mounted on each stabilizer, one (1) facing forward and one (1) facing rearward. The lights will be Grote Supernova 40 series LED lights. The lights will be recessed in the horizontal beam of the stabilizer. These warning lights will be activated with the aerial master switch.</p>
0762388	Lights, Stabilizer Scene, (2) sets, Amdor AY-LB-12HW012, LED	<p>STABILIZER SCENE LIGHTS</p> <p>There will be one (1) Amdor®, Model AY-LB-12HW012, 190 lumen, 12" long, white LED strip light installed under each stabilizer beam to illuminate the surrounding area. A total of four (4) lights will be installed. The lights will be activated by the aerial master switch.</p>
0783034	DC Power To Aerial Tip, 13.92 Amps @ 12 Volt DC, ASL	<p>DC POWER CABLE to TIP</p> <p>There will be a cable installed in the aerial device to provide 13.92 amps @ 12 volts DC to the tip of the aerial device.</p>
0737181	Intercom, 2-Way Fire Research ICA910 Hands Free	<p>2-WAY AERIAL COMMUNICATION SYSTEM</p> <p>There will be a Fire Research, Model ICA910, two-way intercom system provided. The control module with an LED volume display and push-button volume control will be located on the turntable operator console.</p> <p>A hands free module will be located at the aerial tip or platform and constantly transmit to the other module unless the control module push-to-talk button is pressed. Each intercom unit will be weatherproof.</p>
0540895	Not Required, Breathing Air to Tip, Aerial Ladder	
0024742	Not Required, Mask, Breathing Air To Tip	
0126600	Raised Pedestal, 3.00", Rear Mount Aerials, AXT, Velocity, Impel, Enf	<p>RAISED AERIAL PEDESTAL</p> <p>The aerial pedestal will be raised to accommodate the height of the cab.</p>
0604457	Lifting Eye Assembly, Rope Rescue Attachment, ASL, LSL	<p>LIFTING EYE ASSEMBLY - ROPE RESCUE ATTACHMENT</p> <p>A lifting eye assembly will be provided that is designed to evenly distribute load at the tip of the aerial. The lift eye assembly is retained by two (2) locking pins, one (1) at each end outboard side of the egress. Leveling is maintained by the lifting eye assembly rotating within the egress mounting. The lifting eye assembly rating will match the capacity rating of the aerial device.</p>
0645472	Rope Tie Bar At Base Section, for Lyfe Pulley, Painted Box, Ascendant, 105', Tiller	<p>ROPE TIE BAR AT BASE SECTION, RESCUE LIFTING SYSTEM</p> <p>A removable bracket will be supplied at the rear of the base section, attached between the left hand and right hand rear hand rails. The bracket will provide Lyfe Pulley rope tie off and/or guide points spaced 5.25" apart, centered between the rear hand rails. The bracket will be designed to be easily removable and not interfere with a fully retracted ladder assembly when attached to the base section. A storage box for the bracket will be provided on the outside rear of the base section. The storage box and bracket will be painted to match the aerial device.</p>

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0808215	LyfePulley, Rescue System	<p>RESCUE LIFTING SYSTEM A rescue lifting attachment will be provided. The lifting attachment will mount to the aerial and will consist of a pair of nylatron pulleys mounted to a stainless steel manifold. The pulleys will be adjustable from side to side and will have a total lifting capacity of 1000 lbs, regardless of whether one (1) or both pulleys are being utilized.</p>
0628802	Splash Guard, S/S, For Stabilizer Controls Manifold, At Rear, Under Body	<p>SPLASH GUARD FOR REAR CONTROLS A stainless steel splash guard will be provided at the rear of the apparatus under the body to protect the stabilizer controls manifold from road splash and grime. The guard will go from rear access step to rear access step and will be maximum width to cover the entire manifold. The splash guard will be an "L" shape to protect the stabilizer controls manifold. Tubing will be provided to extend the aerial drain and aerial relief to the side and below the splash guard.</p>
0530826	Turntable Access, ManSaver Bars, Yellow	<p>AERIAL TURNTABLE MANSAYER™ BARS Yellow ManSaver™ bars will be installed at the aerial turntable.</p>
0624672	Waterway, High Flow, 1500 GPM, ASL	<p>WATER SYSTEM A waterway system will be provided consisting of the following components and features: A 5.00" pipe will be connected to the water supply on one end and to a 5.00" internal diameter water swivel at the rotation point of the turntable. The water swivel will permit 360 degree continuous rotation of the aerial device. The 5.00" waterway swivel is to be routed through the rotation point up to the heel pin swivel. The heel pin swivel will allow the water to flow to the ladder pipe while elevating the aerial ladder from -10 degrees to 77 degrees. The heel pivot pin is not integral with the waterway swivel at any point. The design of the waterway will allow complete servicing of the waterway swivel without disturbing the heel pivot pin. The integral telescopic water system will consist of a 4.50" diameter tube in the base section, a 4.00" diameter tube in the inner mid-section, a 3.50" diameter tube in the outer mid-section, and a 3.00" diameter tube in the fly section. The telescopic waterway will be constructed of anodized aluminum pipe. The aerial will be capable of discharging up to 1000 gpm at 100 psi parallel to the ladder and 90 degrees to each side of center while maintaining the rated tip load. The aerial will be capable of discharging between 1001 and up to 1500 gallons per minute at 100 psi parallel to the ladder and 40 degrees to each side of center while maintaining the rated tip load. The master stream will be capable of flow up to 30 degrees above horizontal. An adjustable pressure relief valve will be furnished to protect the aerial waterway from a pressure surge. A 1.50" drain valve will be located at the lowest point of the waterway system.</p>
0729475	Monitor, Akron 3486 StreamMaster II Electric, Extended Vertical Travel, w/Manual AVM	<p>WATERWAY SEALS The waterway seals will be of type-B PolyPak design, composed of nitrile seal and a nitrile wiper, which together offer maximum stability and extrusion resistance on the waterway. The seal will be capable of withstanding pressures up to 2000 psi, temperatures in excess of 250 degrees Fahrenheit and have resistance to all foam generating solutions. The seals will be internally lubricated. The waterway seals will have automatic centering guides constructed of synthetic thermal polymer. The guides will provide positive centering of the extendible sections within each other and the base section to insure longer service life and smoother operation.</p>
0729475	Monitor, Akron 3486 StreamMaster II Electric, Extended Vertical Travel, w/Manual AVM	<p>AERIAL MONITOR An Akron Model 3486 monitor with stow and deploy will be provided at the tip with a Akron 1500 gpm Model 5178. This monitor will allow for an additional 30 degrees of travel above horizontal at the aerial tip. The monitor's functions will be controlled electrically from two (2) separate locations. One (1) control will be located at the control console and the other at the ladder tip. There will be a courtesy light at the tip of the aerial to illuminate the controls. If the aerial has a quick-lock waterway, a limit switch will be provided to disable the extended vertical travel when the monitor is locked to the lower ladder section.</p>
0729475	Monitor, Akron 3486 StreamMaster II Electric, Extended Vertical Travel, w/Manual AVM	<p>AERIAL VALVE MANIFOLD UNDER MONITOR An Akron Aerial Valve Manifold (AVM) valve and manifold will be provided at the aerial waterway monitor inlet. This configuration provides a valve to control flow through the monitor and an additional valve as a discharge connection for hose. The AVM monitor flow control valve will be manually operated at the tip of the ladder with a slow close gear valve. The valve will have an integral automatic drain valve. The Akron S2 left side discharge valve will have a 90 degree, 1/4 turn ball valve with 2.50" NH outlet threads. A 2.50" NH cap with chain will be provided. A pressure relief valve will be installed to prevent incidental damage to the waterway system when both valves are closed.</p>
0010758	Flow Meter, Waterway, PAL, 110' Ascendant, MUX	<p>AERIAL WATERWAY FLOW METER Waterway flow, including total water flowed, will be monitored by the microprocessor. An LCD display will be located at the turntable control station.</p>
0004836	Inlet, 5.00" at Rear w/ Pump, Ascendant Tandem, PAP, PAL	<p>REAR INLET A 5.00" NST inlet to the aerial waterway will be provided at the rear of the apparatus. It will be furnished with a 5.00" chrome plated adapter and a 5.00" chrome plated, long handle cap.</p>

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0673128	Quick-Lock Waterway Locking System, 100' HDL, 105' HDL, ASL	<p>WATERWAY LOCKING SYSTEM</p> <p>The aerial ladder waterway monitor will be capable of being positioned at either the fly or the next lower section of the ladder.</p> <p>The monitor location will be changeable by the use of a single handle, located at the side of the ladder.</p> <p>The handle, attached to a cam bracket, will simply be moved forward to lock the monitor at the fly section and back to lock it to the previous section.</p> <p>There will be no pins to remove and reinstall.</p> <p>The monitor will be operational at all times, regardless of its position, without connecting or disconnecting electrical lines.</p>
0047897	Tools, Aerial	<p>TOOLS</p> <p>The following tools will be provided for retorquing of all specified bolts as recommended by the manufacturer:</p> <ul style="list-style-type: none"> Torque Wrench All Required Extensions, Sockets and Adapters 4-to-1 Multiplier
0668583	Manuals and Training, 4 Consecutive Days, Ascendant Ladder, PAL	<p>MANUALS</p> <p>Two (2) operator maintenance manuals and two (2) wiring diagrams pertaining to the aerial device will be provided with the apparatus at time of pick-up.</p> <p>INITIAL INSTRUCTION</p> <p>On initial delivery of the fire apparatus, the contractor will supply a qualified representative to demonstrate the apparatus and provide initial instruction to the fire department regarding the operation, care, and maintenance of the apparatus for a period of four (4) consecutive days.</p>
0816502	NFPA Required Loose Equipment, Quint, NFPA/ULC 2024, Provided by Fire Dept	<p>NFPA LOOSE EQUIPMENT</p> <p>NFPA Required Loose Equipment Provided by Fire Department</p> <p>The following loose equipment as outlined in NFPA 1900, 2024 edition, table 8.1 and CAN/ULC S515:2024 edition, section 5.2 will be provided by the fire department:</p> <ul style="list-style-type: none"> One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 107, <i>American National Standard for High-Visibility Safety Apparel and Accessories</i>, 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. Four (4) ladder belts meeting the requirements of NFPA 2500. <p>NFPA Loose Equipment That Should be Considered</p> <p>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:</p> <ul style="list-style-type: none"> 800 ft (240 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 min Two (2) handline nozzles, 95 gpm min One (1) playpipe with shutoff and 1", 1.125", and 1.25" tips Four (4) SCBA apparatus Four (4) SCBA spare cylinders One (1) first aid kit. Four (4) salvage covers, each a minimum size of 12 ft x 18 ft (3.6 m x 5.5 m). Four (4) combination spanner wrenches. Two (2) hydrant wrenches. One (1) double female 2.50" adapter with national hose (NH) thread. One (1) double male 2.50" adapter with national hose (NH) thread. One (1) rubber mallet, suitable for use on suction hose connections. One (1) 150 ft (45 m) light-use life safety rope meeting the requirements of NFPA 2500. One (1) 150 ft (45 m) general-use life safety rope meeting the requirements of NFPA 2500. One (1) automatic external defibrillator (AED).
0816941	Soft Suction Hose, Provided by Fire Department, NFPA/ULC 2024	<p>SOFT SUCTION HOSE PROVIDED BY FIRE DEPARTMENT</p> <p>Hose is not on the apparatus as manufactured. The fire department will provide suction or supply hose.</p>
0027023	No Strainer Required	
0533246	Extinguisher, 20 lb Dry Chemical	<p>DRY CHEMICAL EXTINGUISHER</p> <p>There will be One (1) extinguisher, 20 lb dry chemical extinguisher(s) provided.</p>
0816937	Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	<p>WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT</p> <p>The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.</p>

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0007482 Not Required, Crowbars

Item # 9.

0007484 Not Required, Claw Tools

0816998 Axe, Flathead, Provided by Fire Department

FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT

The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

0817000 Axe, Pickhead, Provided by Fire Department

PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT

The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.

0007494 Not Required, Sledgehammers

PAINT PROCESS

The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows:

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Manual Surface Preparation - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate.

Chemical Cleaning and Pretreatment - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will 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.

Surfacer Primer - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective basecoat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a Critical aesthetic finish. The Surfacer Primer is a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded.

Finish Sanding - The Surfacer Primer will 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.

Sealer Primer - The Sealer Primer is applied prior to the Basecoat 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 topcoated.

Basecoat Paint - Two coats of a high performance, two component high solids polyurethane basecoat will be applied. The Basecoat will be applied to a thickness that will achieve the proper color match. The Basecoat will be used in conjunction with a urethane clear coat to provide protection from the environment.

Clear Coat - Two (2) coats of Clear Coat will be applied over the Basecoat color. The Clear Coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style and roll-up doors will be Clear Coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacturer.

After the cab and body are painted, the color will be verified to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications will be used to determine the color match. A Delta E reading will be used to determine a good color match within each family color.

All removable items such as brackets, compartment doors, door hinges, and trim will be removed and painted separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly.

The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. The manufacture's written paint standards will be available upon request.

Environmental Impact

Contractor will meet or exceed all current state regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions:

Topcoats and primers will be chrome and lead free.

Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals.

Particulate emission collection from sanding operations will have a 99.99 percent efficiency factor.

Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98 percent. Water wash systems will be 99.97 percent efficient.

Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean.

Paint wastes are disposed of in an environmentally safe manner.

Empty metal paint containers will be recycled to recover the metal.

Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse.

Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with his state EPA rules and regulations.

0709566

Paint, Two-Tone Color, Enforcer

TWO-TONE CAB PAINT

The cab will be painted two-tone with the upper section painted #479 charcoal metallic and the lower section painted #90 red. There will be a standard two-tone cab paint break provided. There will be a standard cab shield provided.

0709845

Paint, Single Color, Body

BODY PAINT

The body will be painted to match the lower section of the cab.

0646901	Paint Chassis Frame Assy, With Liner, E-Coat, Standard	<p>PAINT CHASSIS FRAME ASSEMBLY</p> <p>The chassis frame assembly will be finished with primer and gloss black paint before the installation of the cab and body, and before installation of the engine and transmission air brake lines, electrical wire harnesses, etc.</p> <p>Components that are included with the chassis frame assembly that will be painted (unless otherwise stated in a secondary option) are:</p> <ul style="list-style-type: none"> Frame rails Frame liners 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 <p>Individual piece parts used in chassis and body assembly</p> <p>Components treated with epoxy E-coat protection prior to paint:</p> <ul style="list-style-type: none"> Two (2) C-channel frame rails Two (2) frame liners <p>The E-coat process will meet the technical properties shown.</p>
0693797	No Paint Required, Aluminum Front Wheels	
0806169	Paint, Rear Wheels, Tandem Axle, TAK-4 T3	<p>REAR WHEELS PAINT</p> <p>All wheel surfaces, inside and outside, will be provided with paint black #101.</p>
0733739	Paint, Axle Hubs	<p>AXLE HUB PAINT</p> <p>All axle hubs will be painted black #101.</p>
0007230	Compartment, Painted, Spatter Gray	<p>COMPARTMENT INTERIOR PAINT</p> <p>The interior of all compartments will be painted with a gray spatter finish for ease of cleaning and to make it easier to touch up scratches and nicks.</p>
0782203	Aerial Ladder Paint, ASL-Tandem, LSL, E-Coat	<p>AERIAL DEVICE PAINT COLOR</p> <p>The aerial device paint procedure will consist of a six (6) step finishing process as follows:</p> <ol style="list-style-type: none"> 1. <u>Manual Surface Preparation</u> - All exposed metal surfaces on the aerial device structural components above the rotation point will be thoroughly cleaned and mechanically shot-blasted to remove metal impurities and prepare the aerial for painting. 2. <u>Primer/Surfacer Coats</u> - A two (2) component urethane primer/surfacer will be applied to the mechanically shot-blasted metal surfaces to provide a strong corrosion protective base coat and to smooth out the surface. All seams will be caulked with a two (2) component epoxy caulk before painting. 3. <u>Hand Sanding</u> - The primer/surfacer coat of the outer surfaces of the hand rails and base rails will be lightly sanded to a smooth finish. 4. <u>Sealer Primer Coat</u> - A two (2) component sealer primer coat will be applied over the sanded primer. 5. <u>Topcoat Paint</u> - Urethane base coat will be applied to opacity for correct color matching. 6. <u>Clearcoat</u> - Two (2) coats of an automotive grade two (2) component urethane will be applied. <p>Surfaces that will not be painted include all chrome plated, polished stainless steel, anodized aluminum and bright aluminum treadplate.</p> <p>All buy out components, such as monitor, nozzle, gauges, etc. will be supplied as received from the vendor.</p> <p>Removable items such as brackets will be removed and painted separately to ensure paint coverage behind all mounted items.</p> <p>The stabilizer beams and torque box will be treated with E-coat prior to painting to help provide resistance to corrosion and chemicals. The stabilizers and torque box will be painted black.</p> <p>The aerial device components will be painted as follows using the aforementioned six (6) step finishing process:</p> <ul style="list-style-type: none"> Aerial device ladder sections and extension cylinders: black 101 Aerial egress: #90 red (will be contrasting color to the aerial device ladder) Aerial turntable: black 101 with zinc rich primer Aerial control console: black 101 Aerial lift cylinders: black 101 Aerial boom support: red 90
0544129	Reflective Band, 1"-6"-1"	<p>REFLECTIVE STRIPES</p> <p>Three (3) reflective stripes will be provided across the front of the vehicle and along the sides of the body. The reflective band will consist of a 1.00" white stripe at the top with a 1.00" gap then a 6.00" white stripe with a 1.00" gap and a 1.00" white stripe on the bottom.</p>

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0077356	Reflective, Cab Face, Below the S/S Trim Band	REFLECTIVE STRIPE ON CAB FACE The reflective band provided on the cab face will be located below the stainless steel trim and above the front bumper.	Item # 9.
0583454	Stripe, Chevron, Rear, Diamond Grade, Aerial	REAR CHEVRON STRIPING There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. Covered surfaces will include the rear wall and aluminum doors. Rear compartment doors, stainless steel access doors, and the rear bumper will not be covered. The colors will be red and fluorescent yellow green diamond grade. Each stripe will be 6.00" in width. This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.	
0598754	Stripe, Reflective/Diamond Grade, 4.00" on Stabilizers	REFLECTIVE STRIPE ON STABILIZERS There will be a 4.00" wide fluorescent yellow green diamond grade reflective stripe provided on the forward and rear facing side of all aerial stabilizers.	
0027341	Jog, In Reflective Stripe, Single or Multiple	JOG(S) IN REFLECTIVE BAND The reflective band located on each side of the apparatus body will contain one (1) jog(s) and will be angled at approximately a 45 degrees when installed.	
0017359	Stripe, Black Outline, Vinyl on Reflective Band	REFLECTIVE STRIPE OUTLINE A black outline will be applied on the top and the bottom of the reflective band. There will be three (3) set of outline stripes required.	
0065687	Stripe, Reflective, Cab Doors Interior	CAB DOOR REFLECTIVE STRIPE A 6.00" x 16.00" black reflective stripe will be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the door panel. This stripe will meet the current edition of applicable NFPA standards.	
0679817	Stripe, Printed Effect Gold Leaf, Cab Sides, IPO Chrome Molding	CAB STRIPE There will be a printed effect gold leaf stripe provided on both sides of the cab in place of the chrome molding.	
0545446	Lettering Specifications, Gold Effect Printing		
0685691	Lettering, Printed Effect Gold Leaf, 3.00", (21-40)	LETTERING Twenty-one (21) to forty (40) printed effect gold leaf lettering, 3.00" high, with outline and shade will be provided.	
0685525	Lettering, Printed Effect Gold Leaf, 12.00", Each	LETTERING There will be printed effect gold leaf lettering, 12.00" high, with outline and shade provided. There will be one (1) letter provided.	
0685534	Lettering, Printed Effect Gold Leaf, 10.00", (21-40)	LETTERING Twenty-one (21) to forty (40) printed effect gold leaf lettering, 10.00" high, with outline and shade will be provided.	
0685567	Lettering, Printed Effect Gold Leaf, 2.00", (1-20)	LETTERING One (1) to twenty (20) printed effect gold leaf lettering, 2.00" high, with outline and shade will be provided.	
0685589	Lettering, Printed Effect Gold Leaf, 4.00", (21-40)	LETTERING Twenty-one (21) to forty (40) printed effect gold leaf lettering, 4.00" high, with outline and shade will be provided.	
0822420	Lettering, Vinyl, Script, 6-7"	LETTERING, SCRIPT There will be vinyl script lettering, approximately 6-7" in size, provided and installed per the fire departments submitted information.	
0684229	Emblem, Maltese Cross, Printed Effect Gold Leaf, 6"-8", Pair	MALTESE CROSS INSTALLATION There will be two (2) pair of maltese crosses, comprised of printed effect gold leaf material, provided and installed Front Cab Doors per Customer Supplied Picture reference.	

0755303	Artwork File, Provided on Custom USB Drive	<p>ARTWORK ON CUSTOM USB DRIVE</p> <p>There will be a custom USB drive with department specific artwork files provided to the Department.</p> <p>Stock artwork, or artwork developed exclusively by Pierce Manufacturing, and proprietary items will not be included on the USB drive.</p>	Item # 9.
0769753	Emblem, American Flag Painted on Cab Grille, All Custom Chassis	<p>CAB GRILLE DESIGN</p> <p>An American flag design will be painted on the cab grille.</p>	
0529225	Manuals, Two (2) CD, Fire Apparatus Parts, Custom Chassis	<p>FIRE APPARATUS PARTS CD MANUAL</p> <p>There will be two (2) custom parts manuals for the complete fire apparatus provided in CD format with the completed unit.</p> <p>The manuals will contain the following:</p> <ul style="list-style-type: none"> 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 <p>The manuals will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.</p> <p>Service Parts Internet Site</p> <p>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.</p>	
0531636	Manual, (2) CD, Chassis Service, Custom	<p>CHASSIS SERVICE CD MANUALS</p> <p>There will be two (2) CD format chassis service manuals containing parts and service information on major components provided with the completed unit.</p> <p>The manual will contain the following sections:</p> <ul style="list-style-type: none"> Job number Table of contents Troubleshooting Front Axle/Suspension Brakes Engine Tires Wheels Cab Electrical, DC Air Systems Plumbing Appendix <p>The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.</p>	
0531638	Manual, Two (2) CD, Chassis Operation, Custom	<p>CHASSIS OPERATION CD MANUALS</p> <p>There will be two (2) CD format chassis operation manuals provided.</p>	
0030008	Warranty, Basic, 1 Year, Apparatus, WA0008	<p>ONE (1) YEAR MATERIAL AND WORKMANSHIP</p> <p>A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.</p>	
0696698	Warranty, Engine, Cummins, 5 Year, WA0181	<p>ENGINE WARRANTY</p> <p>A Cummins five (5) year limited engine warranty will be provided. A limited warranty certificate, WA0181, is included with this proposal.</p>	
0684953	Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	<p>STEERING GEAR WARRANTY</p> <p>A Sheppard three (3) year limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with this proposal.</p>	
0596017	Warranty, Frame, 50 Year, Custom Chassis, WA0013	<p>FIFTY (50) YEAR STRUCTURAL INTEGRITY</p> <p>The Pierce custom chassis frame only (does not include crossmembers) limited warranty certificate, WA0013, is included with this proposal.</p>	
0595698	Warranty, Axle, 3 Year, TAK-4, WA0050	<p>FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY</p> <p>The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.</p>	

0644874	Warranty, Axle, 3 Year, TAK-4, IRS, WA0249	REAR AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY Pierce TAK-4® independent rear suspension will be provided with a three (3) year material and workmanship limited warranty. The manufacturer's warranty will provide that the independent rear suspension 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.	Item # 9.
0652758	Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor Wabco™ ABS brake system limited warranty certificate, WA0232, is included with this proposal.	
0019914	Warranty, Structure, 10 Year, Custom Cab, WA0012	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.	
0744240	Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.	
0524627	Warranty, Electronics, 5 Year, MUX, WA0014	FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.	
0695416	Warranty, Pierce Camera System, WA0188	CAMERA SYSTEM WARRANTY A Pierce fifty four (54) month warranty will be provided for the camera system.	
0708760	Warranty, Not Applicable, LED Strip Lights	COMPARTMENT LIGHT WARRANTY The compartment lights will not offer an extended warranty.	
0046369	Warranty, 5-year EVS Transmission, Standard Custom, WA0187	TRANSMISSION WARRANTY The transmission will have a five (5) year/unlimited mileage warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission. Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.	
0685945	Warranty, Transmission Cooler, WA0216	TRANSMISSION COOLER WARRANTY The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed \$10,000 per occurrence. A copy of the warranty certificate will be included with this proposal.	
0688798	Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	WATER TANK WARRANTY A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.	
0596025	Warranty, Structure, 10 Year, Body, WA0009	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.	
0693127	Warranty, Gortite, Roll-up Door, 6 Year, WA0190	ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY A Gortite roll-up door limited warranty will be provided. The mechanical components of the roll-up door will be warranted against defects in material and workmanship for the lifetime of the vehicle. A six (6) year limited warranty will be provided on painted and satin roll up doors. The limited warranty certificate, WA0190, is included with this proposal.	
0734463	Warranty, Pump, Waterous, 7 Year Parts, WA0382	PUMP WARRANTY The Waterous pump will be provided with a seven (7) year material and workmanship limited warranty. A copy of the warranty certificate will be included with this proposal.	
0648675	Warranty, 10 Year S/S Pumping, WA0035	TEN (10) YEAR PUMP PLUMBING WARRANTY The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.	
0657990	Warranty, Foam System, Husky 3, WA0231	FOAM SYSTEM WARRANTY The Husky 3 foam system limited warranty certificate, WA0231, is included with this proposal.	

0006999	Warranty, Structure, 20 Year, Aerial Device, WA0052	TWENTY (20) YEAR AERIAL DEVICE STRUCTURAL INTEGRITY WARRANTY The Pierce device limited warranty certificate, WA0052, is included with this proposal.	Item # 9.
0687388	Warranty, Swivels, 5 Year, Aerial Device, WA0197	AERIAL SWIVEL WARRANTY An Amity five (5) year limited swivel warranty will be provided. A copy of the warranty certificate will be included with this proposal.	
0685727	Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	HYDRAULIC SYSTEM COMPONENTS WARRANTY Aerial hydraulic system components will be provided with a five (5) year material and workmanship limited warranty. HYDRAULIC SEAL WARRANTY Aerial hydraulic seals will be provided with a three (3) year material and workmanship limited warranty. A copy of the warranty certificates is included with this proposal.	
0687327	Warranty, Waterway, 10 Year, Aerial Device, WA0198	AERIAL WATERWAY WARRANTY An Amity ten (10) year limited waterway warranty will be provided. A copy of the warranty certificate is included with this proposal.	
0595860	Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	FOUR (4) YEAR PRO-RATED PAINT AND CORROSION A Pierce aerial device limited pro-rated paint warranty certificate, WA0047, is included with this proposal.	
0595820	Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.	
0595412	Warranty, Graphics Lamination, 1 Year, Apparatus, WA0168	ONE (1) YEAR MATERIAL AND WORKMANSHIP The Pierce graphics fading and deterioration limited warranty limited warranty certificate, WA0168, is included with this proposal.	
0819254	Certification, Vehicle Stability, CD0196	VEHICLE STABILITY CERTIFICATION The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1900, current edition, section 7.14, Vehicle Stability. The certification is included with this proposal.	
0807817	Certification, Engine Installation, Enf, Cummins X15, 2024	ENGINE INSTALLATION CERTIFICATION The fire apparatus manufacturer will 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 will be provided at the time of delivery.	
0686786	Certification, Power Steering, CD0098	POWER STEERING CERTIFICATION The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification is included with this proposal.	

CAB INTEGRITY CERTIFICATION

The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will 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 will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will 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.

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Side Impact

The cab will 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 will see in a rollover incident.

Frontal Impact

The same cab will 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 will 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 will 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 will 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 will withstand all tests without any measurable intrusion into the survival space of the occupant area.

There will be no exception to any portion of the cab integrity certification. Nonconformance will lead to immediate rejection of bid.

0631973

Certification, Cab Door Durability, Saber FR/Enforcer, CD0137

CAB DOOR DURABILITY CERTIFICATION

Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will 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.

0631978

Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132

WINDSHIELD WIPER DURABILITY CERTIFICATION

Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will 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 will certify that the wiper system design has been tested and that the wiper system has met these criteria.

0631974

Certification, Electric Window Durability, Saber FR/Enforcer, CD0133

ELECTRIC WINDOW DURABILITY CERTIFICATION

Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will 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.

0631977

Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134

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 will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will 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 will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will 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.

0735949 Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175

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 will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria.

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Cab Defroster

Visibility during inclement weather is essential to safe apparatus performance. The defroster system will 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 will 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 will 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 will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.

0545073 Amp Draw Report, NFPA Current Edition

AMP DRAW REPORT

The bidder will 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 will provide the following:
Documentation of the electrical system performance tests.
A written load analysis, which will 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 will be provided by the bidder per the current edition of applicable NFPA standards.

0002758 Amp Draw, NFPA/ULC Radio Allowance

0799247 Appleton/Florida Stock Unit

0000049 Ascendant BODY

0000012 PIERCE CHASSIS

0004713 ENGINE, OTHER

0046396 EVS 4000 Series TRANSMISSION

0020011 WATEROUS PUMP

0020009 POLY TANK

0028048 FOAM SYSTEM

0020006 SIDE CONTROL

0020007 AKRON VALVES

0020015 ABS SYSTEM

0658751 PUMPER BASE



Electrical Analysis

Item # 9.

Bid #: 977 **Job #:**
Desc: Enforcer Ascendant 107' Ladder Quint Tandem T3 **Sales Rep:** Hansen, Brad
Customer: City of Grass Valley **Organization:** Golden State Fire Apparatus, Inc
Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT **Type:** Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0001244	High Idle w/Electronic Engine, Custom		0.00	1.20	0.00
0002617	PTO switch, w/light - aerial		0.00	0.00	0.08
0062992	Gauge, Foam Level, (1) Tank, Class 1, GAAAR 5lt		0.00	0.00	1.00
0072153	Primer, Trident, Air Prime, Air Operated		0.00	0.00	0.00
0079211	Batteries, (6) Stryten/Exide Grp 31, 950 CCA each, Threaded Stud		0.00	3.00	0.00
0543751	Light, Do Not Move Apparatus		0.00	0.80	0.00
0549333	Indicators, Engine, Included with Pressure Controller		0.00	0.35	0.00
0553643	Control, Air Horn at Pmp Pnl, Red Switch, Momentary		0.00	0.16	0.00
0583824	Light, Pump Compt, WIn 3SC0CDCR LED White		0.00	0.36	0.00
0583938	Lights, Engine Compt, Custom, Auto Sw, WIn 3SC0CDCR, 3"		0.00	0.30	0.00
0589905	Alarm, Back-up Warning, PRECO 1040		0.00	0.50	0.00
0592633	Foam Sys, Husky 3, Single Agent		0.00	55.00	0.00
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber		0.00	26.00	0.00
0644201	Cab Lift, Elec/Hyd, Saber FR/Enforcer		0.00	180.00	0.00
0653677	Lighting, Rung, LED, TecNiq, 4 Section, Base, Lower/Upper Mid,		0.00	0.00	7.20
0687994	Engine Brake, Jacobs Compression Brake, Cummins Engine		0.00	0.42	0.00
0722038	HVAC, Heavy-Duty, Enforcer, w/X15, CARE		0.00	0.00	100.00
0746513	Water Level Gauge, WIn 50*02Z*R LED w/Flange, Gr-BI-Amb-Rd,		0.00	0.00	4.00
0757717	Lights, HiViz FT-B-65-* LED, 2nd		0.00	0.00	21.30
0757722	Lights, HiViz FT-B-65-* LED, 1st		0.00	0.00	21.30
0768059	Lights, WIn, PCPSM2* Pioneer, 12 VDC, 2nd		0.00	0.00	12.00
0768061	Lights, WIn, PCPSM2* Pioneer, 12 VDC, 1st		0.00	0.00	12.00
0776995	Light, Roof Mt, HiViz, FT-MB-12-*-* , 17"		0.00	0.00	10.00
0792976	Stabilizers, Ascendant Tandem, Rear Mount Steel, 16' Spread, 18"		0.00	4.00	0.00
0804781	Aerial Scene Lts Separated into Aerial Tip Category and Aerial		0.00	0.00	0.00
0806466	Lights, Backup, WIn M62BU, LED, For Tail Lt Housing		0.00	3.20	0.00
0816158	Camera, Pierce, LS Mux, RS, LS, R, Cameras, AHD		0.00	1.20	0.00
0821337	ABS Wabco Brake System, Tandem Rear Axle, Tak-4, NFPA		0.00	6.00	0.00
0889727	Light, P25 LED, Compartment		0.00	0.00	0.10
0895310	Siren, Federal Q2B		0.00	100.00	0.00
0002615	Switch, Aerial 12V Master	NFPA	0.08	0.00	0.00
0002758	Amp Draw, NFPA/ULC Radio Allowance	NFPA	5.00	0.00	0.00
0010758	Flow Meter, Waterway, PAL, 110' Ascendant, MUX	NFPA	0.50	0.00	0.00
0035382	Compt, RS Turntable, F/H, Roll Dr & Lift Dr, Ascendant Tandem,	NFPA	2.70	0.00	2.70
0063695	Compt, LS F/H F/D, Roll Drs, w/o Chute, Ascendant Tandem, 105',	NFPA	2.70	0.00	2.70
0063727	Compt, LS Turntable, F/H F/D, Roll Dr & Lift Dr, Ascendant	NFPA	1.80	0.00	1.80
0063733	Compt, RS F/H, Roll Drs, Ascendant Tandem, 105 HDL, 100 HAL	NFPA	3.60	0.00	3.60
0068703	Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	NFPA	1.60	0.00	0.00
0092582	Load Manager/Sequencer, MUX	NFPA	0.56	0.56	0.00
0511569	Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts	NFPA	0.50	0.00	0.00
0534828	Siren, WIn 295SL101, 100 or 200W Removable Mic	NFPA	0.80	7.20	0.00
0586382	Gauges, Engine, Included With Pressure Controller	NFPA	0.30	0.00	0.00
0589378	Lights, Step, P25 LED, Aerial With Pump, Ign, Prk Brk Set	NFPA	1.50	0.00	0.00
0593161	Light Shield, S/S LED	NFPA	3.00	0.00	0.00
0601949	Light, Turntable Console, TecNiq T-10, LED Strip Light	NFPA	0.20	0.00	0.00
0601972	Lights, Turntable Walkway, P25, LED	NFPA	0.35	0.00	0.00
0602100	Lights, Torque Box Ladder Storage, Pierce LED Strip Lights, 2 Lts	NFPA	1.00	0.00	0.00

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



Electrical Analysis

Item # 9.

Bid #: 977 **Job #:**
Desc: Enforcer Ascendant 107' Ladder Quint Tandem T3 **Sales Rep:** Hansen, Brad
Customer: City of Grass Valley **Organization:** Golden State Fire Apparatus, Inc
Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT **Type:** Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0604635	Lightbar, WIn, Freedom IV-Q, 2-21.5", RRRWR RWRRR	NFPA	6.48	2.48	7.28
0605126	Pump Shift, Air Mnl Override, Split Shaft, Interlocked, Waterous	NFPA	1.00	0.00	0.00
0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29	NFPA	0.10	0.90	0.00
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	NFPA	1.26	0.00	0.00
0625210	Lights, Directional, Cab Front Side, Truck-Lite 19036Y LED,	NFPA	0.12	0.00	0.00
0625953	Light, Directional, WIn 600 Cmb, Cab Crn, Wrp Bzl Out HD Lts,	NFPA	0.70	0.70	0.00
0647647	Lights, Dome, FRP Dual LED 4 Lts	NFPA	0.80	0.80	0.00
0647802	Lights, Clearance/Marker/ID, Front, P25 LED 5 Lts, Saber	NFPA	0.35	0.00	0.00
0653937	Flasher, Headlight Alternating	NFPA	0.08	0.00	0.00
0667186	Light, Slide-Out Pump Operator Step, OSS Access LED, Short	NFPA	0.65	0.00	0.00
0709438	Lights, Walk Surf, FRP Flood, LED	NFPA	2.00	0.00	0.00
0731813	Hour Meter, Aerial, Included in Information Centers, ASL, AAT,	NFPA	0.10	0.00	0.00
0737181	Intercom, 2-Way Fire Research ICA910 Hands Free	NFPA	0.50	0.00	0.00
0739224	Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure	NFPA	0.10	0.00	0.00
0745568	Indicator Light, Pump Panel, Ok To Pump, Green	NFPA	0.10	0.00	0.00
0747228	Lights, Side Zone Lower, WIn M6**, M6**, M6**, 6Lts	NFPA	5.40	8.10	0.00
0747261	Lights, Stabilizer Warn (2) Sets, WIn M6** LED, Trim Color	NFPA	3.60	5.40	0.00
0755095	Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH	NFPA	5.00	0.00	0.00
0757359	Gauge, Water Level, Class 1, Pierce Std, Remote Module Driver	NFPA	1.23	0.00	0.00
0757962	Cabinet, Rear Facing, RS, 22 W x 40.25 H x 26.75 D, Roll, Ext	NFPA	0.30	0.30	0.00
0757990	Cabinet, Rear Facing, LS, 23 W x 40.25 H x 26.75 D, Roll, Ext	NFPA	0.78	0.78	0.00
0762388	Lights, Stabilizer Scene, (2) sets, Amdor AY-LB-12HW012, LED	NFPA	0.72	0.00	0.00
0762413	Light, Boom Support, Amdor AY-LB-12HW012, 12" LED	NFPA	0.18	0.00	0.00
0764563	DEF Tank, 8.0 Gallon, LS Fill, Forward of Rear Axle	NFPA	0.60	11.40	0.00
0768765	Lights, Perimeter Body, Amdor AY-LB-12HW020 LED 2lts,	NFPA	0.33	0.00	0.00
0769420	Lights, Perimeter Cab, Amdor AY-LB-12HW020 LED 4Dr	NFPA	1.20	0.00	0.00
0769564	Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 1lt	NFPA	0.30	0.00	0.00
0783157	Headlights, Rect LED, JW Spkr Evo 2, Heat,	NFPA	6.60	6.60	0.00
0789736	Cab, Enforcer, 7010 w/Notch	NFPA	6.80	10.20	0.00
0790412	Air Dryer, Wabco System Saver 1200 IWT, Heated, SFR/Enf	NFPA	7.81	0.00	0.00
0791501	Light, Traffic Directing, WIn TAL65, 36" Long LED, Aerials	NFPA	0.60	1.20	0.00
0801890	Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	NFPA	2.00	2.00	0.00
0802753	Lights, Tracking, WIn MP** LED, 2lts	NFPA	8.00	0.00	0.00
0804514	Lights, Tail, WIn M62BTT* Red Stop/Tail & M62T* Amber Dir Arw	NFPA	0.83	2.49	0.00
0809546	Light, Rear Zone Up, WIn L31H5F Beacons, Red w/Clear Lens,	NFPA	4.00	4.00	0.00
0811237	Engine, Cummins X15, 605 hp, 1850 lb-ft, W/OBD, EPA 2024,	NFPA	10.00	0.00	0.00
0813791	Panel, Charger Display, Kussmaul, 091-94-12, Batt Dir	NFPA	0.03	0.00	0.00
0814201	Vehicle Information Center, 7" Color Display, Touchscreen, MUX,	NFPA	1.20	0.00	0.00
0814217	Control Stations, ASL Tandem Axle, MUX, Color Display, CL714	NFPA	4.26	0.00	0.00
0816093	ClearSky Telematics, Remote Fleet & On-scene Management,	NFPA	1.61	0.00	0.00
0820601	Lights, Tip, WIn MP** LED, 4lts	NFPA	13.12	0.00	0.00
0826104	Controller, Pressure, FRC, Pump Boss Max, PBA500	NFPA	1.80	0.00	0.00
0827069	Lights, Rear Scene, WIn, MPB* Micro Pioneer LED, 2Lts	NFPA	6.56	0.00	0.00
0889577	Bracket, License Plate & Light, P25 LED, Stainless Brkt	NFPA	0.07	0.00	0.00
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	NFPA	1.00	0.00	0.00
0892656	Lights, Step (6), P25 LED, Each Side	NFPA	0.30	0.00	0.00
0894842	Lights, Rear Zn Lwr, WIn M6*, For Tail Lt Housings	NFPA	1.80	2.70	0.00
0898617	Lights, Hose Bed, Sides, Dual Strips, 45 Ends	NFPA	3.30	0.00	0.00

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



Electrical Analysis

Item # 9.

Bid #: 977 **Job #:**
Desc: Enforcer Ascendant 107' Ladder Quint Tandem T3 **Sales Rep:** Hansen, Brad
Customer: City of Grass Valley **Organization:** Golden State Fire Apparatus, Inc
Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT **Type:** Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0899300	Lights, Front Zone, WIn M6** M6RS M6RS M6**, Inside Steady	NFPA	3.60	5.40	0.00
0647728	Alternator, 430 amp, Delco Remy 55SI	S	0.00	0.00	0.00
Load Totals:			145.46	455.70	207.06

Note: Minimum Continuous Load is in "Blocking Right of Way" mode.(Reference current edition of NFPA 1901)
 Note: Intermittent Load items are not factored in on any alternator load comparisons. These items are included on the report for reference only and should be looked at as amp draw exclusion items. (Reference current edition of NFPA 1901)
 Note: Total Connected Load "Demand" represents Total Connected Load minus any Load Managed items

Alternator Output at Idle: 254.00

Alternator Output at Governed Speed: 370.00

Minimum Continuous Load	
Supply:	254.00
Demand:	145.46
Variance:	108.54

Total Connected Load	
Supply:	370.00
Demand:	352.52
Variance:	17.48

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



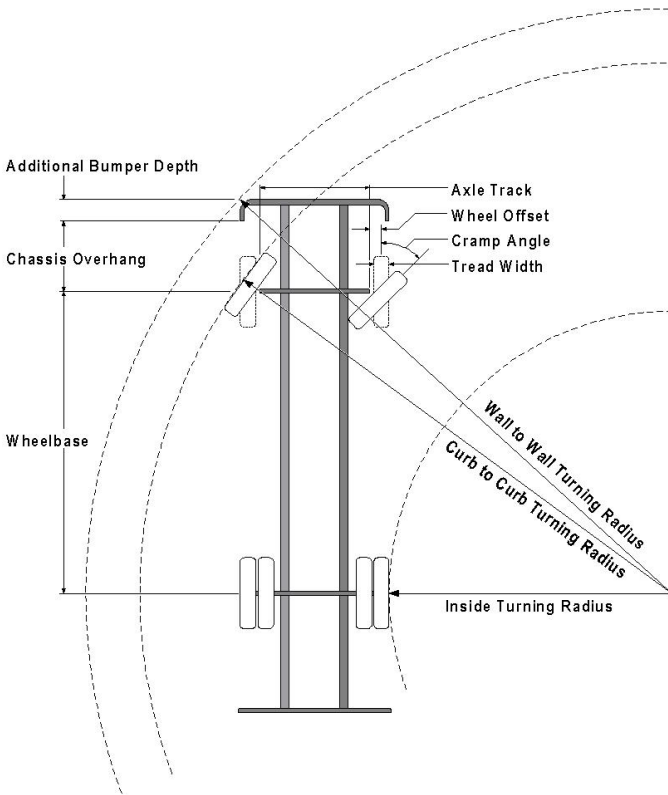
Turning Performance Analysis

03/25/2005

Item # 9.

Bid Number: 977
Department: City of Grass Valley

Chassis: Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL
Body: Aerial, HD Ladder 107' ASL Tandem, Alum Body



Parameters:

*Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	4.68 in.
Tread Width:	16.3 in.
Chassis Overhang:	65.95 in.
Additional Bumper Depth:	13 in.
Front Overhang:	78.95 in.
Wheelbase:	249 in.

Calculated Turning Radii:

Inside Turn:	19 ft. 8 in.
Curb to curb:	35 ft. 8 in.
Wall to wall:	39 ft. 8 in.

Category	Option	Description
Bumpers	0606551	Bumper, 13" Extended, Steel Painted, Saber FR/Enforcer
Aerial Devices	0755095	Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH
Axle, Front, Custom	0629940	Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Enforcer
Wheels, Front	0752585	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Dura-Black, Hub Pilot
Tires, Front	0899438	Tires, Front, Goodyear, Armor MAX MSA, 425/65R22.50, 20 ply

Notes:

*Actual Inside cramp angle may be less than shown.

Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:*Item # 9.*

Inside CrampAngle	Maximum turning angle of the front inside fire.
Axle Track	King-pin to King-pin distance of front axle.
Wheel Offset	Offset from the center line of the wheel to the King-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Wheel	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicles front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices.

4 **PRODUCT** **WARRANTIES**

Exhibit "C"



Fire and Rescue Apparatus

One (1) Year Material and Workmanship Basic Apparatus

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Portions of the apparatus manufactured by Pierce shall be free from defects in material and workmanship
Warranty Begins:	The date the apparatus is placed in service, or 60 days from the original buyer invoice date, whichever comes first.
Warranty Period Ends After:	Twelve (12) months.
Conditions and Exclusions: See Also Paragraphs 2 thru 4	No specific exclusions apply

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

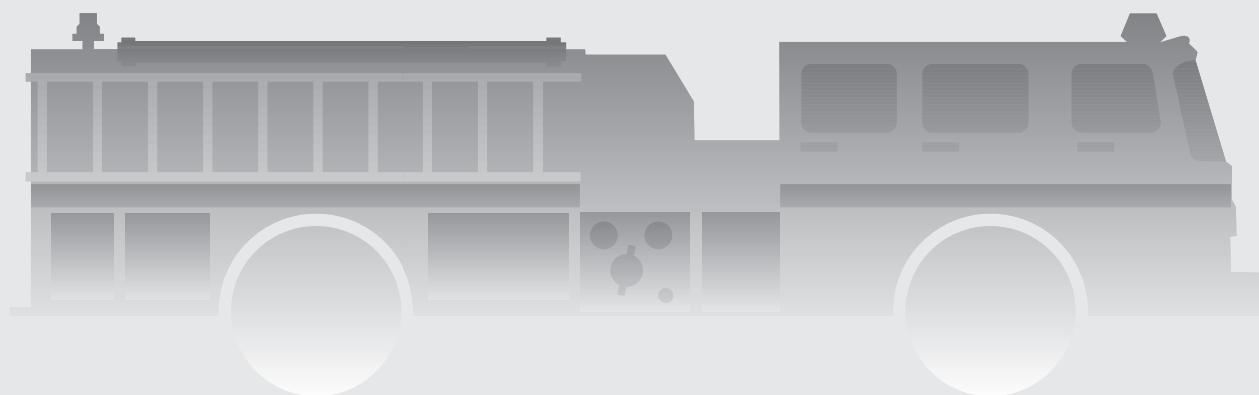
4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

Cummins Warranty

Worldwide
Fire Apparatus/Crash Trucks



Coverage

Products Warranted

This Warranty applies to new diesel Engines sold by Cummins and delivered to the first user on or after April 1, 2007, that are used in fire apparatus truck and crash truck* applications Worldwide.

Base Engine Warranty

The Base Engine Warranty covers any failures of the Engine which result, under normal use and service, from a defect in material or factory workmanship (Warrantable Failure). This Coverage begins with the sale of the Engine by Cummins and ends five years or 100,000 miles (160,935 kilometers), whichever occurs first, after the date of delivery of the Engine to the first user.

Engine aftertreatment components included in the Cummins Critical Parts List (CPL) and marked with a Cummins part number are covered under Base Engine Warranty.

Additional Coverage is outlined in the Emission Warranty section.

These Warranties are made to all Owners in the chain of distribution and Coverage continues to all subsequent Owners until the end of the periods of Coverage.

Cummins Responsibilities

Cummins will pay for all parts and labor needed to repair the damage to the Engine resulting from a Warrantable Failure.

Cummins will pay for the lubricating oil, antifreeze, filter elements, belts, hoses and other maintenance items that are not reusable due to the Warrantable Failure.

Cummins will pay for reasonable labor costs for Engine removal and reinstallation when necessary to repair a Warrantable Failure.

Cummins will pay reasonable costs for towing a vehicle disabled by a Warrantable Failure to the nearest authorized repair location. In lieu of the towing expense, Cummins will pay reasonable costs for mechanics to travel to and from the location of the vehicle, including meals, mileage and lodging when the repair is performed at the site of the failure.

Owner Responsibilities

Owner is responsible for the operation and maintenance of the Engine as specified in Cummins Operation and Maintenance Manuals. Owner is also responsible for providing proof that all recommended maintenance has been performed.

Before the expiration of the applicable Warranty, Owner must notify a Cummins distributor, authorized dealer or other repair location approved by Cummins of any Warrantable Failure and make the Engine available for repair by such facility. Except for Engines disabled by a Warrantable Failure, Owner must also deliver the Engine to the repair facility.

Service locations are listed on the Cummins Worldwide Service Locator at cummins.com.

Owner is responsible for the cost of lubricating oil, antifreeze, filter elements and other maintenance items provided during Warranty repairs unless such items are not reusable due to the Warrantable Failure.

Owner is responsible for communication expenses, meals, lodging and similar costs incurred as a result of a Warrantable Failure.

Owner is responsible for non-Engine repairs and for "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs and other losses resulting from a Warrantable Failure.

Owner is responsible for a \$100 (U.S. Dollars) deductible per each service visit under this plan in the 3rd, 4th and 5th years of Base Engine Warranty. The deductible will not be charged during the first 2 years of the Base Engine Warranty.

Limitations

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment could negatively effect emissions certification and void Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel



exhaust fluid.

This Warranty does not apply to accessories supplied by Cummins which bear the name of another company. Such non-warranted accessories include, but are not limited to: alternators, starters, fans, air conditioning compressors, clutches, filters, transmissions, torque converters, vacuum pumps, power steering pumps, fan drives and air compressors. Cummins branded alternators and starters are covered for the first two years from the date of delivery of the Engine to the first user, or the expiration of the Base Engine Warranty, whichever occurs first.

Failures resulting in excessive oil consumption are not covered beyond the duration of the Coverage or 100,000 miles (160,935 kilometers) or 7,000 hours from the date of delivery of the Engine to the first user, whichever of the three occurs first. Before a claim for excessive oil consumption will be considered, Owner must submit adequate documentation to show that consumption exceeds Cummins published standards.

Failures of belts and hoses supplied by Cummins are not covered beyond the first year from the date of delivery of the Engine to the first user or the duration of the Warranty, whichever occurs first.

Parts used to repair a Warrantable Failure may be new Cummins parts, Cummins approved rebuilt parts or repaired parts. Cummins is not responsible for failures resulting from the use of parts not approved by Cummins.

A new Cummins or Cummins approved rebuilt part used to repair a Warrantable Failure assumes the identity of the part it replaced and is entitled to the remaining Coverage hereunder.

Cummins Inc. reserves the right to interrogate Electronic Control Module (ECM) data for purposes of failure analysis.

CUMMINS DOES NOT COVER WEAR OR WEAROUT OF COVERED PARTS.

CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THIS WARRANTY AND THE EMISSION WARRANTY SET FORTH HEREINAFTER ARE THE SOLE WARRANTIES MADE BY CUMMINS IN REGARD TO THESE ENGINES. CUMMINS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Emission Warranty

Products Warranted

This Emission Warranty applies to new Engines marketed by Cummins that are used in the United States** in vehicles designed for transporting persons or property on a street or highway. This Warranty applies to Engines delivered to the first user on or after September 1, 1992.

Coverage

Cummins warrants to the first user and each subsequent purchaser that the Engine is designed, built and equipped so as to conform at the time of sale by Cummins with all U.S. federal emission regulations applicable at the time of manufacture and that it is free from defects in material or factory workmanship which would cause it not to meet these regulations within the longer of the following periods: (A) Five years or 100,000 miles (160,935 kilometers) of operation, whichever occurs first, as measured from the date of delivery of the Engine to the first user or (B) The Base Engine Warranty.

If the vehicle in which the Engine is installed is registered in the state of California, a separate California Emission Warranty also applies.

Limitations

Failures, other than those resulting from defects in material or factory workmanship, are not covered by this Warranty.

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of lubricating, cooling or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications of the Engine.

Any unauthorized modifications to the aftertreatment could negatively effect emissions certification and void Warranty.

Cummins is also not responsible for failures caused by incorrect oil, fuel or diesel exhaust fluid or by water, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

Cummins is not responsible for non-Engine repairs, "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs or other losses resulting from a Warrantable Failure.

CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

* Airport operated crash trucks and fire department operated trucks employed to respond to fires, hazardous material releases, rescue and other emergency-type situations.

** United States includes American Samoa, the Commonwealth of Northern Mariana Islands, Guam, Puerto Rico and the U.S. Virgin Islands.



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R. H. SHEPPARD CO., INC.
 101 Philadelphia St.
 Hanover, PA 17331
Pierce Manufacturing Inc.
 2600 American Drive
 Appleton, WI 54912

LIMITED WARRANTY: The R. H. Sheppard Co. Inc., (“Sheppard”) warrants all M110PKG1 and M110SAU1 steering gears manufactured and sold to Pierce Manufacturing Inc. (“Pierce”) for application on Pierce TAK-4 equipped vehicles to be free from defects of workmanship and material under normal use and service for a period of thirty six months from the in service date of the vehicle to its original owner.

Vehicle applications where Sheppard product is used require an application approval before production build. If Pierce uses Sheppard product for any purpose or application which has not been approved by Sheppard in advance, including aftermarket devices (defined as a device added to the steering system directly or indirectly affecting the performance or operation of the Sheppard product in its approved application) not tested and approved by Sheppard this limited warranty **SHALL NOT APPLY AND SHALL BE VOID. SHEPPARD MAKES NO OTHER WARRANTY, EITHER EXPRESS OR IMPLIED. SHEPPARD EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.**

SHEPPARD SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES OR FOR LOSS OR DAMAGE DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF A PRODUCT. Pierce expressly acknowledges its obligation to inform all users (customers) of the above disclaimer.

CONDITIONS: Claims under this Limited Warranty may only be made by Pierce. In no event shall Sheppard be held liable for warranty charges by unauthorized persons. No allowance will be made for repairs or alterations, unless made with the written consent of Sheppard. Authorized Pierce dealers shall be the only authorized repair facility for Sheppard products applied to Pierce vehicles. Any warrantable repair made under this Limited Warranty must be made on or before 36 months of the in-service date for the Product to which the claim relates. Sheppard shall not be liable for claims made after such date. Sheppard product fitted to Pierce vehicles that are repaired at a repair facility other than an authorized Pierce dealer within the warranty period will be considered for payment under the guidelines of this agreement only by joint written consideration of Sheppard and Pierce warranty departments. It shall be the responsibility of the Pierce warranty department to notify Sheppard if and when this situation occurs. Sheppard will not be held responsible for damage to other steering components such as but not limited to pumps and reservoirs due to improper adjustment of steering gear relief plungers. Vehicle downtime and towing will not be considered under warranty.

REMEDIES: The sole and exclusive remedy of Pierce for Sheppard’s breach of the foregoing warranty is limited to the return and repair or reimbursement as follows:

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 2

Warranty Support: In support of the Pierce dealer network, Sheppard will provide a toll-free "Hotline" service to assist in the diagnosis and troubleshooting of steering problems. The R. H. Sheppard Co., Inc. Field Service Department can be reached at 1-800-274-7437 for assistance. Sheppard will require that Pierce dealers contact this toll-free "Hotline" for approval before product is removed from a vehicle in a warranty situation. When contacted regarding a warranty situation, the Sheppard representative will provide an authorization number for removal of the product. This Returned Goods Authorization (RGA) number must be included in all warranty correspondence and attached to all returned goods.

Procedure: In the event of a warranty situation, the servicing dealer shall contact the Sheppard Hotline and receive an RGA number before replacing any steering gear. For M110PKG1 and M110SAU1 steering gear models, the dealer will first obtain an RGA number from Sheppard, and then order the replacement gear from Pierce. Replacement M110PKG1 and M110SAU1 steering gears shall be shipped from Pierce once those models are in full production. A warranty claim for both parts and labor will then be generated by the dealer and sent to Pierce. After reviewing the claim, Pierce will submit it to Sheppard for reimbursement.

Parts Reimbursement: Sheppard agrees to reimburse Pierce at Pierce's purchase price plus 30% mark-up for parts found to be defective within the warranty period. Parts being returned for warranty consideration shall be sent to the R. H. Sheppard Company, 447 E. Middle St., Hanover, PA 17331 ATTN: Warranty Dept. Sheppard's determination as to whether the part is covered by the foregoing warranty is final and conclusive. Sheppard requires the return of complete steering gears only. Individual seals replaced under warranty **should not** be returned unless specifically requested by Sheppard. All parts being returned for warranty consideration must be clearly tagged with all pertinent warranty information including, but not limited to (1) Returned Goods Authorization number (RGA); (2) claim number; (3) date in service; (4) date of failure; (5) mileage; (6) part number; (7) labor hours; (8) dealer labor rate and; (9) dollar amount claimed. Claims submitted without prior authorization are subject to rejection under this agreement.

Labor: Labor to repair Sheppard product found to be defective within the warranty period will be reimbursed at not more than 10 hours per vehicle. Labor shall be reimbursed at the rate of \$85.00 USD per hour for M110PGK1 and M110SAU1 steering gears.

Freight: Pierce will collect M110PGK1 and M110SAU1 warranty material at a designated collection point. Inbound freight to the Pierce collection point will be the responsibility of Pierce. All warranty material should be returned from the Pierce collection point to R. H. Sheppard Co. Freight Collect by a Sheppard-specified common carrier based on location of the Pierce collection point. Sheppard does not require the return of failed seals. Any freight charges incurred for the return of seals will be the responsibility of Pierce. Parts returned for warranty consideration without prior authorization are subject to rejection under this agreement and may be subject to a charge back of inbound freight charges. Parts rejected under this warranty will be returned to Pierce Freight Collect or scrapped by Sheppard at Pierce's discretion.

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 3

Outside Purchases: Pierce authorized dealers shall be the only outlet for repair, warranty service and parts for Sheppard products applied to Pierce vehicles. Sheppard will not be responsible for consumables such as hoses, belts, fluids, fittings or miscellaneous shop material that may be required for the repair of the product.

Warranty Documentation: Warranty credit memos will be issued monthly to the Pierce Warranty Department. Monthly credit memos will include (1) claim number; (2) part number; (3) parts reimbursement; (4) labor reimbursement; (5) any applicable Pierce reference number and; (6) reason for rejection or acceptance of the claim. Credit memos will be issued in U.S. funds. Debits for warranty claims will not be accepted under this agreement. Claim disposition will constitute the final and conclusive resolution of warranty claims.

Parts Retention: Sheppard will retain parts submitted for warranty consideration for a period of sixty (60) days for any material found to be rejected for warranty. Sheppard will notify Pierce within sixty (60) days of receipt of Sheppard's determination as to whether any such part is covered by this warranty. Warranty reimbursement will be issued within thirty days of receipt of material at Sheppard.

Good-Will Requests: Good-Will requests will be considered jointly between Sheppard and Pierce for equitable compensation.

RECALLS: Sheppard retains the right to review information regarding federal motor vehicle recall and /or product repair programs if Sheppard products fitted to Pierce vehicles are alleged to be non-compliant with federal motor vehicle safety standards. Sheppard retains the right to review any claims of product defect or non-compliance before participating in reimbursement of expenses incurred as a result of alleged non-compliance or defect of its products. Sheppard agrees to negotiate in good faith for the reimbursement of expenses incurred by Pierce for all administrative, material and labor cost and expense associated with any recall where Sheppard product is found to be defective or non-compliant with federal motor vehicle standards.

MISCELLANEOUS: This writing constitutes the full complete and final statement of Sheppard's limited warranty for M110PKG1 and M110SAU1 products sold to Pierce. All prior oral or written correspondence, test data, negotiations, representations, understandings and the like regarding products are merged in this writing and extinguished by it. This limited warranty may not be altered, amended extended or modified except by a writing signed by the President or Vice President of Sheppard. No employee, vendor, dealer, distributor or other representative of Sheppard has authority to make statements to extend, expand, alter or amend the terms of this Limited Warranty. Sheppard expressly disclaims any statements contrary to the Limited Warranty. Sheppard's failure at any time to enforce any of the terms and conditions stated herein shall not constitute a waiver of any provisions herein. This Limited Warranty shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania.

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
Page 4

Any legal actions which may arise as a result of disputes, controversies or claims arising out of or related to this limited warranty shall be in such forum as Sheppard and Pierce shall agree, or, in the absence of agreement, in a court of appropriate jurisdiction other than in the county in which either party is located. This Limited Warranty shall not be assigned by Pierce.

COOPERATIVE EFFORT: Sheppard and Pierce agree to work cooperatively toward expanding this warranty coverage to a period of sixty months from the in service date. These cooperative efforts shall focus on examining the effects of increased heat generated by 2007 model engines and its impact on the entire power steering system.

AGREEMENT: This agreement is effective April 3, 2006 and may be modified by mutual agreement between Sheppard and Pierce of a signed amendment to be attached to the original Limited Warranty. There are no third party beneficiaries to this Limited Warranty. This warranty agreement applies to Pierce authorized dealers only. It does not encompass any special arrangements that Pierce may now have or that Pierce may enter into, with any other segments of the trucking industry. This warranty agreement does not apply to non-conforming product removed at Pierce assembly plants.

This Limited Warranty agreement between the R. H. Sheppard Co., Inc and Pierce Manufacturing Inc. may be terminated by either party with thirty days written notice prior to termination.

Signed at Pierce Manufacturing Inc., Appleton, WI this _____ day of _____, 2006.

R. H. SHEPPARD CO., INC.

PIERCE MANUFACTURING INC.

Authorized Signature

Authorized Signature

Title

Title



Fire and Rescue Apparatus

Lifetime Fifty (50) Year Structural Integrity Custom Chassis Frame *Limited Warranty*

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the purchaser who first puts the product in service ("Buyer"):

Coverage:	Custom chassis frame rail manufactured by Pierce shall be free from defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Fifty (50) Years (Expected Life of Apparatus)
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies to the frame rails only, crossmembers are excluded. This warranty does not apply to damage caused by corrosion.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

- (a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;
- (b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;
- (c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or
- (d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.



Fire and Rescue Apparatus

Three (3) Year Material and Workmanship TAK-4 Independent Front Suspension

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The TAK-4 Front Independent Suspension and Steering Gears shall be free from defects in material and workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Years -or- 30,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty excludes brake pads, brake rotors, seal boots and shock absorbers.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.



Fire and Rescue Apparatus

Three (3) Year Material and Workmanship TAK-4 Independent Rear Suspension

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The TAK-4 Rear Independent Suspension and Steering Gears shall be free from defects in material and workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Years -or- 30,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty excludes brake shoes, brake drums, ball joint boots and shock absorbers.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.



Fire and Rescue Apparatus

Three (3) Year Material and Workmanship Meritor Wabco ABS Brake System Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The Meritor Wabco ABS brake system shall be covered by Meritor Wabco as indicated in the attached Meritor Wabco warranty coverage description
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	The exclusions listed in the attached Meritor Wabco warranty description shall apply.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

WARRANTY

MODEL YEAR 2021 VEHICLES



Warranty coverage is essential to protecting your investment. But understanding the full details of your coverage can be challenging. This straightforward approach allows you, our valued customer, to better understand how your specific vehicle applications will be covered in your region. Our component warranty coverage is provided according to vocation/usage categories listed below.

- Linehaul covers high mileage operation (over 60,000 miles/year) on well-maintained major highways of concrete or asphalt construction.
- General Service covers moderate mileage operations (less than 60,000 miles/year) on well-maintained public roads (less than 10 percent off-road) typically with less than three (3) stops per mile.
- Heavy Service (Vocational) covers vehicles with more than 10 percent off-road OR moderate to frequent starts/stops typically with more than three (3) stops per mile.
- Off-Highway Service covers lower mileage operations. Vehicles are not typically licensed for highway use.

How to Read Warranty Coverage (Example)

Number of Years	Mileage (in thousands) Unl=Unlimited	P=Parts Only P&L=Parts & Labor
3	300	P

- The standard aftermarket warranty for WABCO products - including WABCO Original parts, WABCO Reman Solutions, ProVia quality aftermarket parts and WABCO retrofit solutions - is one year, parts only from in-service date when purchased from ZF distributor networks or its affiliates and/or subsidiaries.

WARRANTY - MODEL YEAR 2021 VEHICLES

LINEHAUL/GENERAL SERVICE WARRANTY INFORMATION

LINEHAUL/GENERAL SERVICE VEHICLES

- Aerial Ladder Truck
- Aerial Platform
- Ambulance
- Auto Hauler
- Beverage Truck
- Bulk Hauler
- Chip Hauler (Truck)
- Cross Country Coach
- Doubles
- Flatbed
- Front Engine Commercial Chassis
- Front Engine Integral Coach
- General Freight
- Grain Hauler
- Intercity Coach
- Intermodal Chassis
- Livestock Hauler
- Meat Packer
- Moving Van
- Municipal Truck
- Pipe Hauler
- Platform Auto Hauler
- Pumper
- Rear Engine Integral Coach
- Recreational Vehicles
- Refrigerated Freight
- School Bus
- Stake Truck
- Tanker
- Tanker Truck
- Triples
- Tour Bus
- Wrecker

LINEHAUL TYPICALLY IS

- High mileage operation (over 60,000 miles/year)
- Well maintained major highways of concrete or asphalt construction

GENERAL SERVICE TYPICALLY IS

- Moderate mileage operations (less than 60,000 miles/year)
- Well maintained public roads (less than 10% off-road)
- Less than three (3) stops per mile

WABCO Components ¹	
Air Management	
Air Brake Valves	1/100/P&L
Trailer Lift Axle Control Valve	
Trailer Control Line Filter ³	
Air Compressors (ALL) ²	2/200/P&L
Air Dryers (ALL)	3/300/P&L
Aerodynamics	
OptiFlow [®] TrailerSkirt	2/UnU/P
OptiFlow [®] Trailer Tail and AutoTail	2/UnI/P
Braking Systems	
ABS (Anti-Lock Braking System) Air	3/300/P&L
ABS (Anti-Lock Braking System) Hydraulic	
Electronic Braking System (EBS)	
Electronic Stability Control (ESC)	
Roll Stability Control (RSS)	
Trailer Roll Stability Support (RSS)	
Trailer ABS (Anti-Lock Braking System) ³	
Driveline Suspension Control	
Clutch Controls	2/200/P&L
Leveling Valves	1/100/P&L
OptiRide [®] Automated Manual Transmission (AMT)	
OptiRide [®] Electronically Controlled Air Suspension (ECAS)	3/300/P&L

WABCO Components ¹ (cont.)	
Safety	
OnGuardACTIVE [®]	3/300/P&L
OnLane [®]	
OnLaneALERT [®]	
OnSide [®]	
Trailer SafeStart [™]	
Trailer TailGUARD [™]	
Telematics	
TrailerCAST [™] Telematics Device	3/300/P&L
Wheel End Solutions	
EasyFit [™] Slack Adjuster	6/600/P
MAXXUS [™] Truck Air Disc Brake	5/500/P&L
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 17 and 19 Air Disc Brake	2/UnI/P and 1/UnI/L
Pan 22 Air Disc Brake	5/500/P and 1/L
TRISTOP [™] D Actuator w/ IBV or IRB	6/600/P
TRISTOP [™] D Actuator	3/300/P
UNISTOP [™] Actuator	2/200/P
Trailer MAXX22T [™] Air Disc Brake	5/500/P and 1/L

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ An extended warranty of 4/400/P will apply when a WABCO Trailer Control Line Filter is used in combination with a WABCO Trailer ABS valve.

HEAVY SERVICE (VOCATIONAL) WARRANTY INFORMATION

HEAVY SERVICE VEHICLES

- Airport Rescue Fire (ARF)
- Airport Shuttle
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer Combination
- Cementing Vehicle
- City Bus
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Crash Fire Rescue (CFR)
- Mixer
- Demolition
- Drill Rig
- Dump
- Emergency Service
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Trains
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Newspaper Delivery
- Package Delivery
- Pick-up and Delivery
- Rapid Intervention Vehicle (RIV)
- Rear Loader
- Recycling Truck
- Residential Pick-Up/Waste
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Transit Bus
- Trolley
- Utility Truck
- Winch Truck

HEAVY SERVICE TYPICALLY IS

- On/Off road vocations (10% or more off-road) OR
- Moderate to frequent starts/stops typically more than three (3) stops per mile



WABCO Components¹

WABCO Components ¹	
Air Management	
Air Brake Valves	1/100/P&L
Air Compressors (ALL) ²	
Air Dryers (ALL)	
Trailer Control Line Filter ³	
Braking Systems	
ABS (Anti-Lock Braking System) Air	3/300/P&L
ABS (Anti-Lock Braking System) Hydraulic	2/200/P&L
Electronic Braking System (EBS)	3/300/P&L
Electronic Stability Control (ESC)	
Trailer ABS Valve ³	
Roll Stability Control (RSS)	
Trailer Roll Stability Support (RSS)	
Driveline Suspension Control	
OptiRide [®] Electronically Controlled Air Suspension (ECAS)	2/200/P&L
Leveling Valves	1/100/P&L
Clutch Controls	2/200/P&L
Safety	
OnGuardACTIVE [®]	3/300/P&L
OnLane [®]	
OnLaneALERT [®]	
OnSide [®]	
Trailer SafeStart [™]	
Trailer TailGUARD [™]	
Telematics	
TrailerCAST [™] Telematics Device	3/300/P&L
Wheel End Solutions	
EasyFit [™] Slack Adjuster	2/200/P
MAXXUS [™] Air Disc Brake	1/Unl/P&L
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 22, 19 and 17 Air Disc Brake	1/Unl/P&L
Trailer MAXX22T [™]	1/Unl/P&L
TRISTOP [™] D Actuator w/ IBV	3/Unl/P
TRISTOP [™] D Actuator	2/200/P
UNISTOP [™] Actuator	1/100/P

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ An extended warranty of 4/400/P will apply when a WABCO Trailer Control Filter is used in combination with a WABCO Trailer ABS valve.

WARRANTY - MODEL YEAR 2021 VEHICLES

INDUSTRIAL/OFF-HIGHWAY SERVICE WARRANTY INFORMATION

INDUSTRIAL AND OFF-HIGHWAY SERVICE TYPICALLY IS

- Low mileage operation³
- Vehicles are not typically licensed for highway use

Market	Common Application Types
Agriculture	Fertilizer Spreader, Tractor, Heavy Duty Ag Trailers, Harvester, Sprayer, Skid Loader, Silage Bagger, Slurry Wagons, Grain Cart
Airport Support	Pushback Tractor, Towing Tugs, Aircraft Tow Tractor, Refueling Trucks, Food Service Trucks, Baggage Tractors, De-Icing Equipment, Runway Clearing Equipment
Construction	All-Terrain Crane, Rough Terrain Crane, Excavator, Compactor, Wheel Loader, Road Roller, Motor Grader, Articulated Dump Truck, Rubber Tire Road Roller, Backhoe Loaders, Haul Trucks, Scraper Rough Terrain Forklifts, Trenchers, Drills
Forestry	Logging Forwarder, Kidder, Loaders, Yard Forklifts, Harvesters Fellers
Material Handling	Port Tractor, Rail Yard Spotter, Stevedoring Tractor, Trailer Spotter, Yard Jockey, Scissor Lift, Straddle Carrier, Manlift, Forklift, Boom Lift Telehandlers, Aerial Work Platforms
Mining	Specialized Mining, Excavator, Haul Truck, Underground Loader, Service Trucks, Wheel Loaders, Scrapers, Load Haul Dumps, Personnel Transports, Bolters, Scalers
Municipal	Street Sweeper, Utility Tractor, Utility Trucks, Tree Trimmers, Dump Trucks, Tow Trucks, Flat Bed Trucks, Winch Applications
Oil & Gas	Fracturing Trailer, Injector Heads, Top Drives, Jack/Lift Boats, Wireline Trucks, Load-On / Load-Off
Rail	Railcar Mover, Track Layers, Grinders, Platform Crane, Locomotive Railcars, Ballast Equipment, Winch Applications



WABCO Components ¹	
Air Management	
Air Brake Valves	2/Unl/P
Air Compressors (ALL) ²	
Air Dryers (ALL)	
Brake Actuation	
Air/Hydraulic Actuators	2/Unl/P
Master Cylinders	
Remote Actuators	
Slave and Wheel Cylinders	
Two Fluid Actuators	
Brake Locks	
Brake Locks (ALL)	2/Unl/P
Electric Brake Locks	
Lever Locks	
Braking Systems	
ABS (Anti-Lock Braking System) Air	1/100/P&L
ABS (Anti-Lock Braking System) Hydraulic	
Driveline Suspension Control	
Clutch Controls	1/100/P&L
Leveling Valves	
Electrohydraulics & Controls	
Electronic Pedals	2/Unl/P
Electrohydraulic Brake Valves (EBV)	
Pressure Switches	
Hydraulic Braking Solutions	
Accumulator Charging Valves	2/Unl/P
Hydraulic Throttle Controls and Switches	
Modulating Brake Valves	
Wheel End Solutions	
EasyFit™ Slack Adjuster	2/200/P
Caliper Disc Brakes	2/Unl/P
MAXXUS™ Air Disc Brake	1/Unl/P&L
Multiple Disc Brakes	2/Unl/P
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 22, 19 and 17 Air Disc Brake	1/Unl/P&L
TRISTOP™ D Actuator w/ IBV	3/Unl/P
TRISTOP™ D Actuator	2/200/P
UNISTOP™ Actuator	1/100/P

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ Equivalent hours of service limit: 2,000 hours for all components.

TERMS AND CONDITIONS

COVERAGE EXCLUSIONS

PRODUCT DESCRIPTION

ALL PRODUCTS

This Warranty shall not apply to the following, but not limited to: (1) damage to the product or its component parts caused by incorrect use, installation, maintenance or repair, including without limitation (a) improper fit of mating components or brackets, damaged threads, cut, broken, chafed, pinched or otherwise damaged wiring (sensors, harnesses and connectors), (b) sensors damaged during removal when seized in block, or associated with sensor adjustments/ alignments, and (c) damage resulting from the use or installation of non-genuine WABCO components or materials; (2) damage to the product, its component parts, or diminished product or component part performance due to incorrect operation, deviation from approved conditions or misapplication; (3) any unauthorized disassembly of the product or its component parts including without limitation (a) obliterated, defaced or missing WABCO or WABCO name plate, serial numbers or label identifying the device as a ZF product or WABCO component, (b) changes to sealed adjusting screws, and (c) opening or attempted repair of non-serviceable components; (4) malfunction of the component due to internal contamination of the vehicle system including without limitation (a) water and other contamination damage that is due to the use of a non-genuine air dryer cartridge or (b) valve failures due to contamination in air system, (5) complaints associated with noise, (6) damage resulting from corrosion (including oxidation of electrical devices and connections).

AIR DRYERS

Mounting brackets (see vehicle OEM). Desiccant cartridge housing only.

AIR SYSTEM COMPONENTS

Normal wear items; Gladhand seals, dash valve knobs, valve actuation handles, treadles, pedals.

ABS, ELECTRONIC STABILITY CONTROL (ESC), ROLL STABILITY CONTROL (RSC), OPTIRIDE®, ONGUARD® AND ONLANE®, COLLECTIVELY “ELECTRONICS”

Failure of electronic components due to overvoltage condition, improper grounding, electrostatic discharge (ESD), improper shielding, electromagnetic interference (EMI), or other wiring or installation issues. Malfunctions and failure codes caused by other electronic subsystem failures (data bus, engine, transmission, dashboard, etc.)

HYDRAULIC COMPONENTS

For certain components, brake fluid DOT3 or DOT4 is used as the operating medium. Use of any other fluid will void all warranties associated with that component. For hydraulic braking applications the brake fluid is considered a maintenance item. Maintenance intervals are listed in TB-1367.

COVERAGE LIMITATIONS

PRODUCT DESCRIPTION

ALL PRODUCTS

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program.

Products purchased on an incomplete vehicle (glider) are limited to one year, 1/Unl/P.

For vehicles that operate full- or part-time outside of the United States and Canada, a 1-Year/Unlimited Miles parts only (1/Unl/P) will apply.

TOOLBOX PLUS™ DIAGNOSTIC SOFTWARE

Proper diagnostics of WABCO Electronics may require the latest version of TOOLBOX PLUS™. Additional labor due to use of an outdated version of TOOLBOX™ software and/or the time to purchase or install the latest version of TOOLBOX PLUS™ are not covered under product warranty.

WARRANTY - MODEL YEAR 2021 VEHICLES

TERMS AND CONDITIONS

- (1) What is Covered by this Commercial Warranty?
 ZF CV Systems North America LLC and its North American subsidiaries and affiliates (ZF) warrant to the owner ("Owner") that the components listed in this publication, which have been installed by an Original Equipment Manufacturer ("OEM") as original equipment will be free from defects in material and workmanship. This warranty coverage begins from the original in-service date to the limits provided and runs concurrently with any warranties provided by OEMs and/or any distribution agreements and/or any service contracts that cover the components listed in this publication, if any. If the components listed in this publication are covered by an OEM warranty and/or service contract, then the OEM's warranty and/or service contract shall supersede ZF's warranty and Owner shall comply with all OEM's warranty and/or service contract requirements for claims under such OEM's warranty and/or service contract until those agreements expire. Once those agreements expire and provided the ZF warranty has not expired under the terms stated above, the ZF warranty will be in effect until its expiration date.
- Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner, or, the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed previously in this publication. Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Additional diagnostic time due to use of an outdated version of TOOLBOX™, time to purchase or install latest version of TOOLBOX™ are the responsibility of the authorized ZF distributor networks and are not covered under product warranty. Components installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.
- (2) Designation of Vocational Use Required. To obtain warranty coverage, each Owner must notify ZF through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the WABCO components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with ZF directly. Failure to notify ZF of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date. A second Owner and each subsequent Owner must also notify ZF as to the intended vocational use of the vehicle. This notification can be sent directly to ZF or through
- the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use. Coverage under ZF's warranty requires that the application of products be properly approved pursuant to OEM and ZF, approvals.
- (3) What is the Cost of this Warranty? There is no charge to the Owner for this warranty.
- (4) What is not Covered by this Warranty? In addition to the items listed on "Coverage Exclusions," this warranty does not cover normal wear and tear, or service items; nor does it cover a component that fails, malfunctions or is damaged as a result of (a) improper handling, storage, installation, adjustment, repair or modification including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage, or vocation from that which was originally approved by ZF, (b) accident, fire or other casualty, natural disaster, road debris, negligence, misuse, abuse, or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the brake system capacity), or (c) improper or insufficient maintenance (including deviation from maintenance intervals, approved lubricants, or lube levels). This warranty does not cover any component or part that is not sold by ZF.
- (5) To obtain service. If the owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either ZF or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM dealer or ZF distributor networks' servicer. The dealer or ZF authorized servicer will inspect the vehicle and contact ZF for an evaluation of the claim. When authorized by ZF, the dealer or ZF authorized servicer will repair or replace during the term of this warranty any defective WABCO component covered by this warranty.
- (6) Disclaimer of Warranty and Limitation of remedies. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE LIMITED WARRANTY SET FORTH HEREIN IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR WARRANTY FOR HIDDEN OR LATENT DEFECTS, AND IN NO EVENT WILL ZF OR ANY OF ITS AFFILIATES BE LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, PROGRESSIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND.

- (7) Legal action. Any legal action or claim arising from or related to this Warranty, in contract or otherwise, must be commenced within one year from the accrual of that cause of action, or be barred forever. Any dispute arising in connection with this agreement shall be governed by and construed according to the laws of the State of Michigan and be brought, heard and determined exclusively in either the Circuit Court for the County of Oakland, State of Michigan or the United States District Court for the Eastern District of Michigan. The parties stipulate that the referenced venues are convenient.
- (8) Remedy. The exclusive remedy under this warranty shall be the repair or replacement of the defective component at ZF's option. ZF reserves the right to require that all applicable covered components are available and/or returned to ZF for review and evaluation. THE MAXIMUM LIABILITY, IF ANY, OF ZF FOR ALL DAMAGES, INCLUDING WITHOUT LIMITATION CONTRACT DAMAGES, BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORT, IS LIMITED TO AN AMOUNT NOT TO EXCEED THE PURCHASE PRICE OF THE PRODUCT and where indicated in the product and application warranty information above, the inclusion of labor is limited to the standard repair time. THE PARTIES ACKNOWLEDGE AND AGREE THAT THE LIMITATION OF DAMAGES PROVISION SET FORTH IN THIS PARAGRAPH SURVIVES BETWEEN THE ORIGINAL END USER AND ZF EVEN IF THE EXCLUSIVE REMEDY SET FORTH ABOVE IS DEEMED TO FAIL OF ITS ESSENTIAL PURPOSE. ZF may change the design or make improvements to its Products without incurring any warranty obligation for previously manufactured Product .
- (9) Entire Agreement. This is the entire agreement between ZF and the Owner about warranty and no, ZF employee, or dealer is authorized to make any additional warranty on behalf of ZF unless in writing and signed by an authorized representative of ZF.





**For further product details contact your distributor or the
WABCO Customer Care Center at 855-228-3203.**

About ZF Friedrichshafen AG

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies different kinds of vehicles. With its products, the company contributes to reducing emissions and protecting the climate.

ZF, which acquired WABCO Holdings Inc. on May 29, 2020, now has 160,000 employees worldwide with approximately 260 locations in 41 countries. In 2019, the two then-independent companies achieved sales of €36.5 billion (ZF) and \$3.4 billion (WABCO). For more information, visit: www.wabco-na.com



Fire and Rescue Apparatus

Ten (10) Year Structural Integrity

Custom Cab

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The Pierce Custom Cab shall be free from structural failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the cab tubular support and mounting structures and other structural components of the cab of the vehicle model, as identified in the Pierce specifications for the Fire and Rescue Apparatus. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Pro-Rated Paint and Corrosion

Cab

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the cab painted by Pierce shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	<p>This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any:</p> <p>Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25%</p> <p>Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25%</p> <p>Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25% 73-120 months 10%</p> <p>Corrosion Perforation 0-120 months 100%</p> <p>This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Pierce Basic One Year Limited Warranty.</p> <p>Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade. (c) Any cab not manufactured by Pierce.</p>

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus Five (5) Year Material and Workmanship Command Zone Electronics Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Command Zone control modules shall be free from failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty applies to all of the control modules for the Command Zone system, including the full color graphic displays. Related wire harnesses, cables and connectors are not covered under this limited warranty and are instead covered under the Pierce One Year Basic Apparatus Limited Warranty.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

54 Months Material and Workmanship

Camera System

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	This limited warranty covers repairs to correct any defect related to materials or workmanship of the Sharpvision camera system installed on the apparatus occurring during the warranty period.
Warranty Begins:	The date of delivery.
Warranty Period Ends After:	Fifty - Four (54) months
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty does not apply to related wire harnesses, cables, and connectors, which are covered by the Pierce one (1) year basic apparatus limited warranty.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

NEW PRODUCT WARRANTY

PARTICIPATING OEM SALES
DISTRIBUTOR SALESLIMITED WARRANTY ON NEW ALLISON AUTOMATIC TRANSMISSIONS
USED IN EMERGENCY VEHICLE APPLICATIONS

Allison Transmission will provide for repairs or replacement, at its option, during the warranty period of each new Allison transmission listed below that is installed in an Emergency Vehicle in accordance with the following terms, conditions, and limitations.

WHAT IS COVERED

- **WARRANTY APPLIES** — This warranty is for new Allison transmission models listed below installed in an Emergency Vehicle and is provided to the original and any subsequent owner(s) of the vehicle during the warranty period.
- **REPAIRS COVERED** — The warranty covers repairs or replacement, at Allison Transmission's option, to correct any transmission malfunction resulting from defects in material or workmanship occurring during the warranty period. Needed repairs or replacements will be performed using the method Allison Transmission determines most appropriate under the circumstances.
- **TOWING** — Towing is covered to the nearest Allison Transmission Distributor or authorized Dealer only when necessary to prevent further damage to your transmission.
- **PAYMENT TERMS** — Warranty repairs, including parts and labor, will be covered per the schedule shown in the chart contained in section "APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE."
- **OBTAINING REPAIRS** — To obtain warranty repairs, take the vehicle to any Allison Transmission Distributor or authorized Dealer within a reasonable amount of time and request the needed repairs. A reasonable amount of time must be allowed for the Distributor or Dealer to perform necessary repairs.
- **TRANSMISSION REMOVAL AND REINSTALLATION** — Labor costs for the removal and re-installation of the transmission, when necessary to make a warranty repair, are covered by this warranty.
- **WARRANTY PERIOD** — The warranty period for all coverages shall begin on the date the transmission is delivered to the first retail purchaser, with the following exception:

Demonstration Service - A transmission in a new truck or bus may be demonstrated to a total of 5000 miles (8000 kilometers). If the vehicle is within this limit when sold to a retail purchaser, the warranty start date is the date of purchase. Normal warranty services are applicable to the demonstrating Dealer. Should the truck or bus be sold to a retail purchaser after these limits are reached, the warranty period will begin on the date the vehicle was first placed in demonstration service and the purchaser will be entitled to the remaining warranty.

APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE

APPLICABLE MODELS	WARRANTY LIMITATIONS (Whichever occurs first)		ADJUSTMENT CHARGE TO BE PAID BY THE CUSTOMER	
	Months	Transmission Miles Or Kilometers	Parts	Labor
MT, MD 3000, 3200, 3500, 3700	0-24	No Limit	No Charge	No Charge
HT with Hydraulic Controls	0-24	No Limit	No Charge	No Charge
AT, 1000 Series™, 2000 Series™, 2400 Series™	0-36	No Limit	No Charge	No Charge
HT with Electronic Controls	0-60	No Limit	No Charge	No Charge
HD 1000 EVS, 2100 EVS, 2200 EVS 2350 EVS, 2500 EVS, 2550 EVS, 3000 EVS, 3500 EVS, 4000, 4000 EVS, 4500, 4500 EVS, 4700, 4700 EVS, 4800, 4800 EVS	0-60	No Limit	No Charge	No Charge

WHAT IS NOT COVERED

- **DAMAGE DUE TO ACCIDENT, MISUSE, or ALTERATION** — Defects and damage caused as the result of any of the following are not covered:
 - Flood, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle;
 - Misuse of the vehicle;
 - Installation into unapproved applications and installations;
 - Alterations or modification of the transmission or the vehicle, and
 - Damage resulting from improper storage (refer to long-term storage procedure outlined in the applicable Allison Service Manual)
 - Anything other than defects in Allison Transmission material or workmanship

NOTE: This warranty is void on transmissions used in vehicles currently or previously titled as salvaged, scrapped, junked, or totaled.

- **CHASSIS, BODY, and COMPONENTS** — The chassis and body company (assemblers) and other component and equipment manufacturers are solely responsible for warranties on the chassis, body, component(s), and equipment they provide. Any transmission repair caused by an alteration(s) made to the Allison transmission or the vehicle which allows the transmission to be installed or operated outside of the limits defined in the appropriate Allison Installation Guideline is solely the responsibility of the entity making the alteration(s).
- **DAMAGE CAUSED by LACK of MAINTENANCE or by the USE of TRANSMISSION FLUIDS NOT RECOMMENDED in the OPERATOR'S MANUAL** — Defects and damage caused by any of the following are not covered:
 - Failure to follow the recommendations of the maintenance schedule intervals applicable to the transmission;
 - Failure to use transmission fluids or maintain transmission fluid levels recommended in the Operator's Manual.
- **MAINTENANCE** — Normal maintenance (such as replacement of filters, screens, and transmission fluid) is not covered and is the owner's responsibility.
- **REPAIRS by UNAUTHORIZED DEALERS** — Defects and damage caused by a service outlet that is not an authorized Allison Transmission Distributor or Dealer are not covered.
- **USE of OTHER THAN GENUINE ALLISON TRANSMISSION PARTS** — Defects and damage caused by the use of parts that are not genuine Allison Transmission parts are not covered.
- **EXTRA EXPENSES** — Economic loss and extra expenses are not covered. Examples include but are not limited to: loss of vehicle use; inconvenience; storage; payment for loss of time or pay; vehicle rental expense; lodging; meals; or other travel costs.
- **"DENIED PARTY" OWNERSHIP** — Warranty repair parts and labor costs are not reimbursed to any participating or non-participating OEMs, dealers or distributors who perform warranty work for, or on behalf of, end users identified by the United States as being a "denied party" or who are citizens of sanctioned or embargoed countries as defined by the U.S. Department of Treasury Office of Foreign Assets Control. Furthermore, warranty reimbursements are not guaranteed if the reimbursement would be contrary to any United States export control laws or regulations as defined by the U.S. Department of Commerce, the U.S. Department of State, or the U.S. Department of Treasury.

OTHER TERMS APPLICABLE TO CONSUMERS AS DEFINED by the MAGNUSON-MOSS WARRANTY ACT

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Allison Transmission does not authorize any person to create for it any other obligation or liability in connection with these transmissions.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THESE TRANSMISSIONS IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY. PERFORMANCE OF REPAIRS AND NEEDED ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, LOST WAGES OR VEHICLE RENTAL EXPENSES) RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.**

** Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

OTHER TERMS APPLICABLE TO OTHER END-USERS

THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE ALLISON TRANSMISSION MODELS LISTED ABOVE AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLISON TRANSMISSION DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH TRANSMISSIONS. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY.

QUESTIONS

If you have any questions regarding this warranty or the performance of warranty obligations, you may contact any Allison Transmission Distributor or Dealer or write to:

Allison Transmission, Inc.
 P.O. Box 894
 Indianapolis, IN 46206-0894
 Attention: Warranty Administration PF-9



Fire and Rescue Apparatus

Five (5) Year Material and Workmanship - Transmission Oil Cooler Three (3) Year Collateral Damage Coverage

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The transmission cooler shall be free from component or structural failures caused by defects in material and/or workmanship. Collateral damage up to \$10,000 per occurrence is available for the first three (3) years.
Warranty Begins:	The date of delivery to the first retail purchaser.
Warranty Period Ends After:	Five (5) Years on Oil Cooler and three (3) years on collateral damage coverage
Conditions and Exclusions: See Also Paragraphs 2 thru 4	<p>This warranty does not cover repair due to accidents, misuse, and excessive vibration, flying debris, storage damage (freezing), negligence or modification. This warranty is void if any modification or repairs are performed without authorization. This also voids any future warranty.</p> <p>This warranty does not cover cost of maintenance or repairs due to lack of required maintenance services as recommended. Performance of the required maintenance and use of proper fluids are the responsibility of the owner.</p> <p>Towing is covered to the nearest distributor or authorized dealer only when necessary to prevent further damage to your transmission.</p> <p>Labor costs for the removal and reinstallation of goods may be covered when necessary to make repairs. Please contact your OEM for authorization.</p> <p>Replacement of cooler during the warranty period is limited to 100% of reasonable labor costs up to a maximum of \$700 to remove, replace, or repair the oil cooler.</p>

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

- (a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;
- (b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;
- (c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or
- (d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.



UNITED PLASTIC FABRICATING
Limited Lifetime Warranty

Effective as of January 1, 2024

1. General. United Plastic Fabricating, Inc. (the "Company") warrants to the owner (the "Owner") that the products set forth on Exhibit A, attached hereto (the "Product") will be reasonably free from defects in materials and workmanship for the service life of the Product. This Limited Lifetime Warranty (the "Warranty") only applies to Company Products that are: (a) owned by a federal, state, county or local government, a volunteer fire department or dedicated commercial fire service operation; (b) continuously and actively used in emergency response and/or fire suppression vehicles; and (c) used, stored, handled and installed in the manner recommended by Company.

2. Warranty Obligations. Subject to the exclusions and limitations set forth in this Warranty, Company will, at its option, repair or offer a one (1) time replacement of the Product without charge, if the Product fails or does not perform as warranted during the warranty period due to a manufacturing defect or a defect in materials. Repair or replacement shall include reasonable labor charges necessary to repair or replace the defective Product but shall not include: (a) the costs associated with removal of the Product from the vehicle or the cost to otherwise provide access to the Product in the vehicle; (b) the cost associated with any required upgrades the vehicle (including, without limitation, upgrades required to strengthen the vehicle's frame); or (c) travel costs, except as provided by Section 3. Company's obligation as to repair or replacement shall further be limited to repair or replacement with the models of the Product that are available at the time of the repair or replacement, and shall be limited to the repair or replacement of only the specific Product that fails due to a manufacturing defect. In the event a Product becomes unavailable or cannot be supplied by Company for any reason a substitute Product of equal quality and functionality of the subject Product may be substituted by Company. Any repaired Product shall remain subject to this Warranty and any repair shall not extend the warranty period in any manner or start a new warranty period. Any Product that is replaced by Company shall be excluded from this Warranty. In no

event shall Company be required to expend, in any one (1) or series of expenditures, more than the purchase price of the Product to repair or replace a defective Product. Amounts expended by Company shall include all amounts paid by Company in connection the repair or replacement, including without limitation, amounts paid to third-parties, material costs, incidental costs and travel costs (except as provided by Section 3).

3. Travel; Expenses; Product Access. Company shall be responsible for any travel costs incurred to repair or replace the Product provided that: (a) the Product is located in the continental United States or Canada; and (ii) the warranty claim is initiated prior to the date on which NFPA 1912 Standards (Annex D) recommends replacement of the Product. All other travel costs incurred by Company or its agents to repair or replace the Product shall be the responsibility of the party asserting the warranty claim. Company reserves the right to require, as a condition to undertaking any repair or replacement: (y) pre-payment of its anticipated travel costs; and (z) satisfactory arraignments concerning scheduling and access to the Product. If the subject Product is located in an area of the world considered, in Company's sole discretion, to be unsafe Company may refuse to process the claim or require relocation of the Product, at no expense to Company, to an area where such repairs can be performed safely by Company or its agents. In the event Company or Company's agents are dispatched to repair or replace a defective Product and the vehicle in which the Product has been installed is not available or the Product is not readily accessible, for any reason, Company or Company's agents, as the case may be, shall be immediately reimbursed for all expenses incurred therewith.

4. Exclusions: Products must be stored, handled, installed, used and maintained in accordance with instructions provided by Company, and this Warranty is conditioned upon compliance with all such instructions. This Warranty does not cover defects caused by: (a) improper installation; (b) modification, alteration or repair of the Product by any unauthorized third-party; (c) misuse, including, without limitation, improper

storage or handling of the Product (e.g. excessive exposure to UV rays); chemical abuse (e.g. harsh cleansers and solvents), thermal abuse or shock (e.g. excessive heat or cold); (d) damage not resulting from manufacturing defects that occur while the Product is not in Company's possession (e.g. accidents); or (e) unreasonable or unintended use of the Product. Copies of the Company's operation and maintenance instructions are available on the Company's website <https://www.unitedplastic.com/upf-documents/>

5. Disclaimer. THE WARRANTIES SET FORTH HEREIN ARE THE ONLY WARRANTIES MADE BY COMPANY IN CONNECTION WITH THE PRODUCT. COMPANY CAN NOT AND DOES NOT MAKE ANY IMPLIED OR EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT, AND DISCLAIMS ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. PRODUCTS SOLD BY COMPANY ARE SOLD ONLY TO THE SPECIFICATIONS SPECIFICALLY SET FORTH BY COMPANY IN WRITING. OTHER THAN THE LIMITED WARRANTY SET FORTH HEREIN, COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. COMPANY'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE REPAIR OR REPLACEMENT OF NON-CONFORMING PRODUCT. BUYER ASSUMES ALL RISK WHATSOEVER AS TO THE RESULT OF THE USE OF THE PRODUCT PURCHASED, WHETHER USED SINGULARLY OR IN COMBINATION WITH ANY OTHER PRODUCTS OR SUBSTANCES.

6. Limitation of Liability. NO CLAIM BY OWNER OF ANY KIND, INCLUDING CLAIMS FOR INDEMNIFICATION, SHALL BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL COMPANY BE LIABLE TO OWNER IN TORT, CONTRACT OR OTHERWISE, FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, ANY OBLIGATION OF COMPANY TO REPAIR OR REPLACE ANY CHASSIS, SUB-FRAMES, BODIES, VALVES, DUMPS, HOSES, PRESSURE VACUUM VENTS OR OTHER SIMILAR COMPONENTS), RELIANCE, STATUTORY, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF USE, LOSS OF TIME,

LOSS OF REVENUES, INCONVENIENCE, LOSS BUSINESS OPPORTUNITIES, OR DAMAGE TO GOOD WILL OR REPUTATION, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR SUCH DAMAGES COULD HAVE BEEN REASONABLY FORESEEN, IN CONNECTION WITH, ARISING OUT OF, OR AS A RESULT OF, THE SALE, DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS SOLD HEREUNDER, OR FOR ANY LIABILITY OF BUYER TO ANY THIRD PARTY WITH RESPECT THERETO.

7. Reformation. If any term or provision of this Warranty shall be held or deemed to be, or shall in fact be, invalid, inoperative, illegal or unenforceable as applied in any case or in any jurisdiction or jurisdictions because of the conflicting nature of any provision with any constitution or statute or rule of public policy or for any other reason, then: (a) such circumstance shall not have the effect of rendering the provision or provisions in question invalid, inoperative, illegal or unenforceable in any other jurisdiction or in any other case or circumstance or of rendering any other provision or provisions herein contained invalid, inoperative, illegal or unenforceable to the extent that such other provisions are not themselves actually in conflict with such constitution, statute or rule of public policy; and (b) any such invalid, inoperative, illegal or unenforceable provision shall be reformed and construed in any such jurisdiction or case so that such provision would be valid, operative and enforceable to the maximum extent permitted in such jurisdiction or case.

8. Headings. The headings contained herein are for convenience and reference only, and shall be given no effect in the interpretation of any term or condition of this Warranty.

9. Submitting a Warranty Claim. To request coverage under this Warranty you must submit a claim through Company's website:
<https://www.unitedplastic.com/contact/product-support/>

10. Transferability. This Warranty is transferable and entitles the transferee to coverage for the remainder of the original warranty period.

11. Modification. This Warranty may be modified (a) as set forth on a binding sales order for the Product or (b) by a written agreement between Company and the Owner.

Exhibit A

Covered Product List

- Poly-Tanks®
- PolySide® Wetside Tanks
- Defender™ Skid Tanks
- Ellip-T™ Elliptical Tanks
- ARFF Tanks



Fire and Rescue Apparatus

Ten (10) Year Structural Integrity Apparatus Body

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The apparatus body shall be free from structural failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the body tubular support and mounting structures and other structural components of the body of the vehicle model, as identified in the Pierce specifications for the Fire and Rescue Apparatus. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Pierce Warranty Statement for Gortite Roll Up Doors Rev 2/24/2011

All mechanical components of the door shall be warranted to be free from defects in materials and workmanship for the lifetime of the vehicle. All parts covered under this warranty shall be to the original owner.

A&A manufacturing warrants that painted doors shall be free of blistering, peeling, bubbling, or any other adhesion defect caused by defective manufacturing methods or paint material selection. The time period for the coverage shall be 6 years from date of door shipment to Pierce. Satin anodized finish doors shall be warranted for 6 years against corrosion defects from date of door shipment to Pierce. Replacement of decals/Scotchlite is not covered.

The maximum amount A&A will reimburse for labor is \$60.00 per hour and the maximum amount of time allowed for repair is as follows:

Door	1.0 Hr.
Slat Replacement	1.0 Hr.
Pennant Plate Replacement	1.0 Hr.
Roller Replacement	.5 Hr.
Seal Replacement	.5 Hr.
Switch/Magnet Replacement	1.0 Hr.
Travel Time	4.0 Hr.

Waterous Seven-Year Limited Warranty

WATEROUS warrants, to the original Buyer only, that products manufactured by WATEROUS will be free from defects in material and workmanship under normal use and service for a period of seven (7) years from the date the product is first placed in service, or seven and one-half (7-1/2) years from the date of shipment by WATEROUS, whichever period shall be the first to expire; provided the Buyer notifies WATEROUS, in writing, of the defect in said product within the warranty period, and said product is found by WATEROUS to be nonconforming with the aforesaid warranty. When required in writing by WATEROUS, defective products must be promptly returned by Buyer to WATEROUS at WATEROUS' plant at South St. Paul, Minnesota, or at such other place as may be specified by WATEROUS, with transportation and other charges prepaid. A Returned Material Authorization (RMA) is required for all products and parts and may be requested by phone, fax, email, or mail. The aforesaid warranty excludes any responsibility or liability of WATEROUS for:

- (a) damages or defects due to accident, abuse, misuse, abnormal operating conditions, negligence, accidental causes, use in non-firefighting applications, or improper maintenance, or attributable to written specifications or instructions furnished by Buyer;
- (b) defects in products manufactured by others and furnished by WATEROUS hereunder, it being understood and agreed by the parties that the only warranty provided for such products shall be the warranty provided by the manufacturer thereof which, if assignable, WATEROUS will assign to Buyer, if requested by Buyer;
- (c) any product or part, altered, modified, serviced or repaired other than by WATEROUS, without its prior written consent;
- (d) the cost of dismantling, removing, transporting, storing, or insuring the defective product or part and the cost of reinstallation; and
- (e) normal wear items (packing, strainers, filters, light bulbs, anodes, intake screens, mechanical seals, etc.).

ALL OTHER WARRANTIES ARE EXCLUDED, WHETHER EXPRESS OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR ANY OTHER CAUSE OF ACTION, SHALL WATEROUS BE LIABLE FOR ANY PUNITIVE, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR FOR PERSONAL INJURY OR PROPERTY DAMAGES.

The exclusive remedy of Buyer and the sole liability of WATEROUS, whether based on contract, warranty, tort or any other basis of recovery whatsoever, is expressly limited at the election of WATEROUS to:

- (a) the replacement at the agreed point of delivery of any product or part, which upon inspection by WATEROUS or its duly authorized representative, is found not to conform to the limited warranty set forth above, or
- (b) the repair of such product or part, or
- (c) the refund or crediting to Buyer of the net sales price of the defective product or part.

BUYER'S REMEDIES CONTAINED HEREIN ARE EXCLUSIVE OF ANY OTHER REMEDY OTHERWISE AVAILABLE TO BUYER.

Waterous Company
125 Hardman Avenue South
South St. Paul, MN 55075 USA
www.waterousco.com

WATEROUS



Fire and Rescue Apparatus

Ten (10) Year Material and Workmanship Stainless Steel Piping Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Stainless steel piping shall be free from structural failures caused by defects in material and workmanship, or perforation caused by corrosion.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	Pierce's obligation under this warranty is limited to repairing or replacing without charge, as Pierce may elect, the stainless steel piping or components which Pierce determines to have failed due to defective material and workmanship, or perforation caused by corrosion. This warranty does not cover the use of fluoroprotein (FP) type foam. The sodium chloride within FP foam can cause long-term damage to system components if not thoroughly flushed immediately after use.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

- (a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;
- (b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;
- (c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or
- (d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

One (1) Year Material and Workmanship Foam System & Five (5) Year Material and Workmanship Control Head

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Limited warranty 1 year parts and labor for the foam system and 5 years parts and labor for the control head.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	One (1) Year & Five (5) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	<p>This warranty does not cover repair due to accidents, misuse, and excessive vibration, flying debris, storage damage (freezing), negligence or modification. This warranty is void if any modification or repairs are performed without authorization. This also voids any future warranty.</p> <p>This warranty does not cover cost of maintenance or repairs due to lack of required maintenance services as recommended. Performance of the required maintenance and use of proper fluids are the responsibility of the owner.</p>

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.



Fire and Rescue Apparatus

Twenty (20) Year Structural Integrity Pierce Aerial Device

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Each new Pierce Aerial Device shall be free from defects in material and workmanship. Aerial Device Models Covered by this warranty include: Aerial Platforms Aerial Ladders SkyBoom
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Twenty (20) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the torque box, turntable, aerial sections and other structural components of the aerial device, as identified in the Pierce specifications for the aerial device. This warranty shall be void if, or to the extent that the aerial device is not maintained in strict compliance with NFPA Standard 1911 in effect at time of sale, including such periodic inspections and testing by qualified third parties as are required by that Standard as it may be in effect from time to time. Proof of such compliance shall accompany any claims under this warranty. Third party testing agencies known to Pierce to be qualified for such purposes may be obtained from the Pierce Customer Service Department This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

- (a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;
- (b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;
- (c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or
- (d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



AMITY FIRE AND SAFETY, INC.

3750 CHESTNUT ROAD
ALBURTIS, PA 18011-0451
Phone: 610-966-3115
Fax: 610-965-6313

* STANDARD FIVE YEAR WARRANTY *

(standard warranty is in effect for parts shipped after 4/15/10)

Three Function Swivel

A. PRESHIPMENT TESTING The Three Function Swivel fabricated by Amity which is exposed to pressure during normal use is subject to final inspection using the following pressure minimums:

1. Hydrostatic applications will be tested to 400 PSI unless specified otherwise on approved drawings. Operating pressures on installed systems are not to exceed 250 PSI at any point in the system. Warranty will be voided and Amity will not be held liable for failure and/or damage occurring from Water Hammering or freezing of water in any system.
2. Hydraulic applications will be tested to 4000 PSI. System operating pressure in application to be 3000 PSI maximum.
3. Dielectric and Continuity Test all circuits. 30 Amp max current loading.

B. THREE FUNCTION SWIVEL MAINTENANCE – Our Three Function Swivel has been fully tested at assembly. Under no circumstances is there to be any maintenance performed internally or externally to the Three Function Swivel by Purchaser or any other third party other than an authorized representative of or Amity itself. The Three Function Swivel is sealed and must remain so. The Three Function Swivel is designed for a long maintenance free life. Should any problems occur or replacement be necessary, first contact Amity. There is to be no field maintenance performed on the Three Function Swivel .

C. MOUNTING REQUIREMENTS – The following are the mounting requirements for the Three Function Swivel:

1. Mounting points and methods are to be determined at the initial design stage. All drawings and applicable documentation must be signed off by both parties and filed for future reference. No deviation to the approved mounting is allowed without approval from Amity.
2. The Three Function Swivel is to be mounted concentric to the center of the turntable bearing.
3. All inlet and outlet plumbing to conform to swivel mounting, under no circumstances is the Three Function Swivel to be positioned to match connections. This will avoid putting excessive loads on the Three Function Swivel. All tubing or piping to be supported by means other than the Three Function Swivel.

D. LIMITED WARRANTY, LIMITATIONS, CONDITIONS AND PROCEDURES REQUIRED.

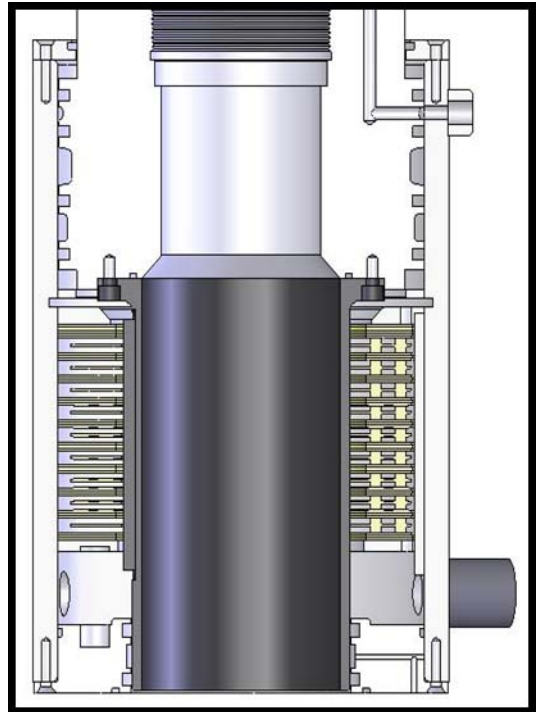
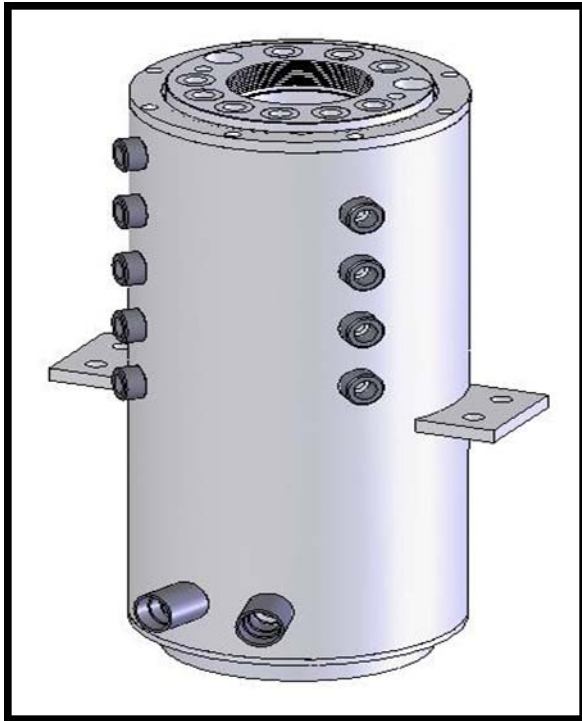
1. The Three Function Swivel is warranted to be free of defects in labor and/or materials for a period of five (5) years from the Date of Service. For purposes here, "Date of Service" shall mean the date when the Three Function Swivel, or the unit to which the Three Function Swivel is incorporated, passes final Underwriters Laboratory testing, or similarly compliant testing, and is certified for service. Evidence of such Date of Service shall be required in connection with any warranty claim by Purchaser.
2. The Three Function Swivel shall be repaired or replaced at the sole option and expense of the Amity provided the Three Function Swivel alleged to be defective was used for its intended normal use of operation and subject to the following qualifications and limitations.
3. Any alteration of the Three Function Swivel without consent from Amity is strictly forbidden and shall void warranty.
4. No welding shall be performed on finished Three Function Swivel.
5. No responsibility is assumed for any malfunctions or damages which are occasionally caused by foreign objects which may be ingested into water or hydraulic systems such as, but not limited to stones, sand or metal chips.
6. Amity assumes responsibility for our Three Function Swivel, which is defective only, and therefore, it will not assume responsibility for labor to either remove or install our Three Function Swivel unless it agrees in writing to assume such responsibility.
7. Unless otherwise approved in writing by the Amity all returns of defective Three Function Swivels (or allegedly defective Three Function Swivels) are at Purchaser's expense and must include a RGA number issued by the Amity.

8. All warranty claims must be presented at the time the problem occurs, or as soon as practical thereafter, either called or faxed to the Amity and include the numbers on the assembly's Amity's label with a detailed explanation of the difficulty in order for the matter to be appropriately evaluated and resolved.
9. Amity will not be held liable for damage incurred during shipment.
10. No responsibility shall be assumed for misuse or improper mounting, unreasonably use or abuse of the Three Function Swivel and or failure to provide or use improper maintenance, failure to follow written installation and use in instruction or any use other than the customary designed use.

THE REMEDIES PROVIDED IN THE ABOVE EXPRESS LIMITED WARRANTY AND ARE THE SOLE AND EXCLUSIVE REMEDIES AVAILABLE. NO OTHER EXPRESS WARRANTIES ARE MADE. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE ARE LIMITED IN DURATION AS SET FORTH ABOVE. IN NO EVENT SHALL THE AMITY ASSUME OR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THE WITHIN DESCRIBED WARRANTY SHALL ONLY BE AFFORDED TO THE ORIGINAL PURCHASER OR FOR INCORPORATION INTO ANOTHER UNIT AND TO FIRST PURCHASER AS PART OF COMPLETED UNIT, HOWEVER, THE WARRANTY PERIOD OF FIVE YEARS IS FROM THE DATE OF SERVICE WITH THE UNDERSTANDING IT IS INSTALLED WITHIN A REASONABLE TIME PERIOD.

Dated: _____, 20__





Fire and Rescue Apparatus

Five (5) Year Material and Workmanship Aerial Hydraulic System Components

Three (3) Year Material and Workmanship Aerial Hydraulic System Seals

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The aerial hydraulic system components and seals shall be free from component or structural failures caused by defects in material and/or workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years and Three (3) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	Pierce's obligation under this warranty is limited to repairing or replacing without charge, as Pierce may elect, the hydraulic lines, fittings, valves, seals, cylinders, filters, pumps, hydraulic motors, rotary actuators, or components which Pierce determines to have failed due to defective material and workmanship. This warranty shall not apply unless the aerial device is inspected in accordance with NFPA 1911 Standard for Inspection, Maintenance, Testing, and Retirement of In-Service Automotive Fire Apparatus and the applicable Pierce Operator and Maintenance Manuals.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.



AMITY FIRE AND SAFETY, INC.

3750 CHESTNUT ROAD
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Phone: 610-966-3115
Fax: 610-965-6313

* STANDARD TEN YEAR WARRANTY *

(standard warranty is in effect for parts shipped after 4/15/10)

Telescopic Waterways

A. PRESHIPMENT TESTING All waterways fabricated by Amity are final inspected using the following pressure minimums:

1. Hydrostatic applications will be tested to 400 PSI unless specified otherwise on approved drawings. Operating pressures on installed systems are not to exceed 250 PSI at any point in the system. Warranty will be voided and Amity will not be held liable for failure and/or damage occurring from Water Hammering or freezing of water in any system.

B. COMPONENTS DESCRIPTION AND MAINTENANCE

1. All components are thoroughly greased at assembly. Since internally lubricated seals are used, regular greasing is not required. We recommend components not be greased at installation.
2. Slip Tube Assemblies may be greased at the Amity's regularly scheduled Aerial Inspections. The seals in the Slip Tube Assemblies are self-lubricating, so greasing is not mandatory. We do recommend a visual inspection of the Slip Tube Assembly while it is fully extended after initial installation, from that point on we recommend inspection every ten hours of aerial operation. If any deposits of aluminum appear, they are to be rubbed off using a Teflon scouring pad. Slip Tube Assemblies are designed to give long maintenance free service; however, like any product, problems may occur and periodic visual inspections will aid in determining if a potential problem exists and warrants a call to us. Care must be taken to keep debris off of extended tubes. We recommend wiping tubes with light oil (10 weight) or hydraulic oil after use, if tubes appear to have contamination on them. Under no circumstance are tubes to be cleaned with lacquer thinner, or any other solvent.

C. LIMITED WARRANTY, LIMITATIONS, CONDITIONS AND PROCEDURES REQUIRED.

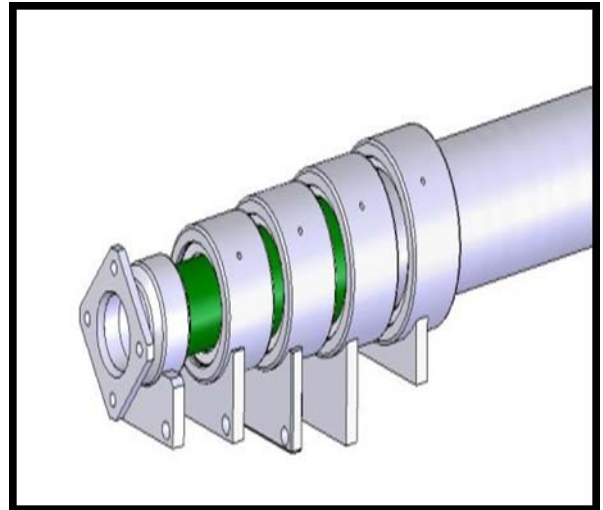
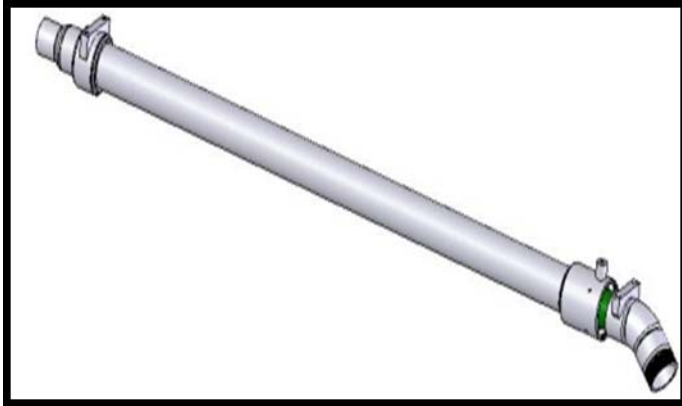
1. Products are warranted to be free of defects in labor and/or materials for a period of ten years from the date of purchase from the Amity and shall be repaired or replaced at the sole option and expense of the Amity provided the products alleged to be defective was used for its intended normal use operation and subject to the following qualifications and limitations.
2. Any alteration of product without consent from Amity is strictly forbidden and shall void warranty.
3. No welding shall be performed on finished product.
4. No responsibility is assumed for any malfunctions or damages which are occasionally caused by foreign objects which may be ingested into water system such as, but not limited to stones, sand or metal chips.
5. Amity assumes responsibility for our product, which is defective only, and therefore, it will not assume responsibility for labor to either remove or install our product unless it agrees in writing to assume such responsibility.
6. Unless otherwise approved in writing by the Amity all returns of defective (or allegedly defective products) are at Purchaser's expense and must include a RGA number issued by the Amity.
7. All warranty claims must be presented at the time the problem occurs, or as soon as practical thereafter, either called or faxed to the Amity and include the numbers on the assembly's Amity's label with a detailed explanation of the difficulty in order for the matter to be appropriately evaluated and resolved.
8. Amity will not be held liable for damage incurred during shipment.
9. No responsibility shall be assumed for misuse or improper mounting, unreasonably use or abuse of the Product and or failure to provide or use improper maintenance, failure to follow written installation and use in instruction or any use other than the customary designed use.

THE REMEDIES PROVIDED IN THE ABOVE EXPRESS LIMITED WARRANTY AND ARE THE SOLE AND EXCLUSIVE REMEDIES AVAILABLE. NO OTHER EXPRESS WARRANTIES ARE MADE. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR

FITNESS FOR A PARTICULAR PURPOSE OR USE ARE LIMITED IN DURATION AS SET FORTH ABOVE. IN NO EVENT SHALL THE AMITY ASSUME OR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THE WITHIN DESCRIBED WARRANTY SHALL ONLY BE AFFORDED TO THE ORIGINAL PURCHASER OR FOR INCORPORATION INTO ANOTHER UNIT AND TO FIRST PURCHASER AS PART OF COMPLETED UNIT, HOWEVER, THE WARRANTY PERIOD OF TEN YEARS COMMENCES UPON INSTALLATION INTO FINAL ASSEMBLY WITH THE UNDERSTANDING IT IS INSTALLED WITHIN SIX MONTHS OF PURCHASE.

Dated: _____, 20__





Fire and Rescue Apparatus

Four (4) Year Pro-Rated Paint and Corrosion

Aerial Device

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Aerial device shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection for exterior surfaces.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Four (4) Years
Conditions and Exclusions:	<p>This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any:</p> <p>Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-24 months 100% 25-48 months 50%</p> <p>Integrity of Coating System: Adhesion, Blistering/Bubbling 0-24 months 100% 25-48 months 50%</p> <p>Corrosion: Dissimilar Metal and Crevice 0-24 months 100% 25-48 months 50%</p> <p>Corrosion Perforation 0-24 months 100% 25-48 months 50%</p> <p>This limited warranty applies only to exterior paint.</p> <p>Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade.</p>

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Pro-Rated Paint and Corrosion

Custom Body

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the body shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	<p>This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any:</p> <p>Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25%</p> <p>Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25%</p> <p>Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25% 73-120 months 10%</p> <p>Corrosion Perforation 0-120 months 100%</p> <p>This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Pierce Basic One Year Limited Warranty.</p> <p>Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade. (c) Any cab not manufactured by Pierce.</p>

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

One (1) Year Material and Workmanship Graphics Fading and Deterioration

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Each graphic lamination shall be free from defects in material workmanship, fading, and deterioration.
Warranty Begins:	The date the apparatus is placed in service, or 60 days from the original buyer invoice date, whichever comes first.
Warranty Period Ends After:	One (1) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty does not cover damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual).

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

5 DEALER SUPPLIED PRODUCTS AND /OR SERVICES

Exhibit "D"

PROPOSAL INTRODUCTION

With over three decades of industry expertise, Golden State Fire Apparatus, Inc. (GSFA) proudly stands as the premier authorized dealership for top-tier fire apparatus in Central and Northern California. Our steadfast commitment to detail and customer satisfaction has earned us a trusted reputation among first responders.

We sincerely appreciate the opportunity to present this comprehensive proposal for a PIERCE MANUFACTURING, INC. 107' ENFORCER ASCENDANT QUINT AERIAL. Your consideration of this proposal is greatly valued, and we are eager for the opportunity to support your department with the highest level of excellence and professionalism.

DEALER-SUPPLIED PRODUCTS AND SERVICES

Golden State Fire Apparatus Inc. (GSFA) will furnish the following items and/or services before final delivery so that all necessary components and support are in place, contributing to an efficient final delivery process. Please refer to the detailed list below for a comprehensive overview of the products and/or services included:

AUTHORIZED MANUFACTURER

In accordance with the State of California Vehicle Code, specifically Section 11701, it is mandated that "every manufacturer of a vehicle subject to registration shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number." The manufacturer, as of the proposal submission, holds a valid license in compliance with this requirement and is prepared to furnish a copy upon request. This adherence to regulatory standards ensures that the manufacturer maintains a current and official status, promoting transparency and compliance with legal requirements throughout the duration of the proposal and subsequent processes.

AUTHORIZED DEALERSHIP

In compliance with the State of California Vehicle Code, specifically Section 11701, it is mandated that "a dealer in vehicles of a type subject to registration shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number." Golden State Fire Apparatus, Inc. possesses a valid license at the time of the bid, as detailed above, and can promptly provide a copy upon request. This adherence to regulatory standards ensures that the dealership maintains a current and official status, promoting transparency and compliance with legal requirements throughout the duration of the proposal and subsequent processes.

AUTHORIZED SALES REPRESENTATIVE

In accordance with the State of California Vehicle Code, specifically Section 11800, it is expressly prohibited for any individual to function as a vehicle salesperson without obtaining a license issued by the Department of Motor Vehicles (DMV). The representative, at the time of

proposal, holds a valid vehicle salesperson's license and is ready to furnish a copy upon request. This adherence to regulatory standards ensures that the sales representative maintains a current and official status, promoting transparency and compliance with legal requirements throughout the bidding process and subsequent phases.

VEHICLE REGISTRATION

In adherence to the State of California Vehicle Code Section 11739, it is mandated that the "dealer of a new motor vehicle sale is responsible for applying for the title, securing vehicle registration, and obtaining license plates for the Customer" through the Department of Motor Vehicles (DMV). Being a factory-authorized dealer of the vehicle being sold, Golden State Fire Apparatus, Inc. is duly authorized to register the vehicle with the State of California as a new vehicle manufacturer.

GSFA is committed to facilitating an excellent vehicle ownership experience for the customer. As such, we will manage all necessary applications and complete all transfer papers, including the application for California Exempt "E" license plates. This approach ensures compliance with regulatory requirements and a hassle-free registration process for our valued customers.

WEEKLY PROGRESS PHOTOGRAPHS

GSFA is committed to ensuring transparency and comprehensive reporting throughout the construction process of the apparatus. To achieve this, GSFA will provide weekly photographs capturing various stages of the apparatus or major components under construction.

Commencing from the initiation of the manufacturing process, the photographic documentation will extend throughout the entire production phase by the manufacturer. These weekly reports will offer a visual representation of the ongoing progress of the apparatus, highlighting key milestones and showcasing unique features and aspects as construction unfolds.

Our focus is to provide customers with a clear and detailed insight into the evolution of the apparatus, fostering a deeper understanding of the craftsmanship and distinct elements incorporated during the construction process. This commitment to regular, visual updates aims to enhance communication and transparency regarding the progress of the apparatus.

PRE-CONSTRUCTION, FACTORY VISIT

A pre-construction trip to the manufacturing facility is included for three (3) Customer representatives. The primary objective of this visit is to review and finalize, in detail, the specifications prior to the start of production. The pre-construction trip is anticipated to span four (4) days and three (3) nights, with scheduling details collaboratively determined between GSFA and the Customer.

GSFA will cover the costs associated with airfare, lodging, meals, and ground transportation during the stay at the manufacturer's location. Air travel will be arranged from one of the following airports: Sacramento, San Francisco, or San Jose.

It is important to note that certain costs, including Customer ground transportation within California, airport parking, luggage fees, and incidental expenses during travel to the factory, fall within the responsibility of the Customer. Furthermore, flight reservations are non-refundable, and in the event of a cancellation post-booking, the Customer will bear all associated costs, encompassing not only the original ticket cost but also any change or cancellation fees levied by the airline and/or travel agency. Additionally, flight reservations are non-transferable. This delineation aims to establish clarity and transparency regarding the allocation of responsibilities and potential costs associated with the pre-construction trip.

FINAL INSPECTION, FACTORY VISIT

A final inspection trip to the manufacturing facility is included for three (3) Customer representatives. The primary objective of this visit is to ensure the adherence of the apparatus to specifications and promptly identify any potential deficiencies. The final inspection trip is anticipated to span four (4) days and three (3) nights, with scheduling details collaboratively determined between GSFA and the Customer.

GSFA will cover the costs associated with airfare, lodging, meals, and ground transportation during the stay at the manufacturer's location. Air travel will be arranged from one of the following airports: Sacramento, San Francisco, or San Jose.

It is important to note that certain costs, including Customer ground transportation within California, airport parking, luggage fees, and incidental expenses during travel to the factory, fall within the responsibility of the Customer. Furthermore, flight reservations are non-refundable, and in the event of a cancellation post-booking, the Customer will bear all associated costs, encompassing not only the original ticket cost but also any change or cancellation fees levied by the airline and/or travel agency. Additionally, flight reservations are non-transferable. This delineation aims to establish clarity and transparency regarding the allocation of responsibilities and potential costs associated with the final inspection trip.

DELIVERY TO AUTHORIZED SERVICE FACILITY

GSFA will deliver the apparatus to one our Northern California facilities (either Tracy or Sacramento – whichever is closest) for a comprehensive dealer preparation inspection. This service, conducted at the expense of GSFA, aims to have the apparatus in optimal condition at the time of final delivery.

To ensure the proper break-in of all components while still under warranty, the apparatus will be delivered under its own power. The use of rail or truck freight for transportation is deemed

unacceptable in order to uphold the highest standards of quality assurance during the delivery process. This approach reflects our commitment to delivering a fully operational, road-tested apparatus to our valued customers.

PRE-DELIVERY SERVICE

Before reaching its final destination, the apparatus undergoes a pre-delivery service conducted by Golden State Emergency Vehicle Service, Inc. This service is designed to tap into the expertise of an external source, providing an experienced perspective that enhances the thoroughness of your final inspection. Our pre-delivery service covers the following areas:

1. Engine Compartment and Undercarriage:
 - Inspect for broken mounting brackets.
 - Inspect and identify locations of any fluid leaks.
 - General inspection of hoses, wiring, and linkage, focusing on potential wear points.
 - Verify correct fluid capacities for engine oil, coolant, power steering fluid, washer reservoir fluid, transmission fluid, rear-end fluid, pump transmission oil, and primer oil if applicable.
 - Re-torque U-bolts to OEM specifications if equipped with leaf spring suspension (Pierce Custom chassis only).

2. Interior:
 - Confirm proper operation of doors, windows, and locks, ensuring accurate adjustment.
 - Confirm proper operation of seatbelt alarms.
 - Confirm proper operation of all compartment door alarms, as well as hose bed cover, ladder rack, light tower, and deck gun alarms.
 - Ensure functionality of auxiliary power points, interior lighting, mirror, and seat controls, and if applicable - headsets and radios.
 - Inspect upholstery for quality and condition.

3. Exterior:
 - Address reasonable paint scratches or chips.
 - Tighten any loose hardware.
 - Inspect tires and wheels, ensure proper pressure.
 - Check compartment doors for proper operation and latch fit.
 - Lubricate compartment door locks if applicable.

4. Road Test:
 - Conduct a road test with a full water tank (if applicable), covering approximately twenty miles on both city and highway roads.

- Perform a DOT compliant brake test to verify the system is holding air.
 - Inspect brake condition, wheel seals, and ensure drive train components reach optimal operating temperatures.
 - Conduct an Allison Transmission self-diagnostic to verify fluid level, fluid and filter life, and check for fault codes.
5. Electrical:
- Verify the operation of all lights, sirens, and other electrical accessories.
6. Pump:
- Operate the Pressure Governor or Relief Valve, transfer valve, and check pump shift.
 - Inspect water tank, pump and plumbing for leaks and calibrate the water level gauge.
 - Ensure smooth operation of all discharge, suction, and drain valves.
7. Pierce Husky™ Foam System:
- If applicable, draft and inject clean water to ensure proper operation of the foam pump.
8. Fuel and DEF Tanks:
- Fill the fuel tank and DEF tank prior to final delivery.
9. Wash:
- Thoroughly wash the apparatus prior to final delivery.

This pre-delivery service assists the apparatus to meet our high standards of quality and operational efficiency before reaching its final destination.

FINAL DELIVERY (CUSTOMER LOCATION)

GSFA will deliver the completed Product, inclusive of any relevant equipment, spare parts, and supplies, to the Customer's specified address at GSFA's expense.

In preparation for the Product's delivery, the Customer is required to furnish GSFA with proof of liability and physical damage insurance. GSFA will withhold the release of the Product until such proof of insurance is provided.

To ensure a timely delivery process, it is incumbent upon the Customer to settle any outstanding balance owed to GSFA before or at the time the Product is completed and ready for delivery. In the event of delayed payment or delivery, GSFA reserves the right to impose a

late fee and daily storage charge as outlined in the Standard Terms and Conditions until payment is received.

For compliance with insurance liability considerations, the Product will only be delivered upon full acceptance and full payment, or through a prior written agreement mutually reached between the Customer and GSFA. This ensures a secure and efficient finalization of the delivery process, aligning with both parties' obligations and safeguarding against potential liabilities.

COMPREHENSIVE SALES AND SERVICE SUPPORT

At GSFA, we understand that immediate response is essential - and the service and support of your apparatus should be no different. Since our founding in 1989, our mission has been to provide first responders with the highest quality, most reliable fire and emergency apparatus from top-tier manufacturers. We specialize in guiding our customers through the entire process - from apparatus evaluation and customization to final inspection - and ensuring years of reliable service through our Golden State Emergency Vehicle Service (GSEVS) division.

Golden State Emergency Vehicle Service (GSEVS)

Established in 2014, GSEVS is committed to building long-term, collaborative relationships by providing exceptional warranty and technical support. Our services cover a wide range of needs, including chassis, electrical systems, pump, aerial, routine maintenance, equipment mounting, and pump testing - with priority given to new units sold by GSFA. Our goal is to deliver prompt, professional service and unwavering support for your apparatus.

Sacramento Facility

Our Sacramento location features a 33,814-square-foot facility with 18 working bays and a 4,500-square-foot, two-story parts distribution department stocked with an extensive inventory of Pierce and non-Pierce parts. Conveniently located near Highway 99 with easy access to Interstates 80 and 50, we are positioned to serve you efficiently. If a part is not in stock, we order it directly from the factory to minimize downtime.

Tracy Facility (Opening Fall 2025)

Our second location in Tracy will expand our service capacity with a 49,634-square-foot facility featuring 22 working bays and a parts department equal in size to our Sacramento facility. Strategically located within the "Tracy Triangle" - bordered by I-580, I-205, and I-5 - this facility will enhance our ability to serve customers in the Bay Area and beyond.

Mobile Service

To minimize emergency apparatus downtime, we offer a robust mobile service program for on-site repairs and maintenance.

Certified and Experienced Technicians

Our service team includes factory-trained professionals certified by Pierce, ASE, and EVT. They undergo regular training to stay current on chassis, electrical systems, and aerial devices, ensuring expert handling of any challenge.

Your Single Source for Sales and Service

With Golden State Fire, you have a single point of contact for sales, service, and support - all under one roof, with two strategically located facilities to serve you better. We are confident that our combination of expertise, customer service, and product support is unmatched by any other fire and emergency apparatus dealership in California.

END OF EXHIBIT "D"



City of Grass Valley
City Council
Agenda Action Sheet

Title: Appointment of Planning Commissioner

CEQA: Not a Project

Recommendation: That Council approve the appointment of Matthew Wich as Planning Commissioner for Councilmember Ivy.

Prepared by: Taylor Whittingslow, Deputy City Manager

Council Meeting Date: 4/8/2025

Date Prepared: 4/3/2025

Agenda: Consent

Background Information: By Council policy, each council member submits a candidate for appointment to the Planning Commission to the members of the City Council for their approval and appointment. The terms of appointed Planning Commissioners coincide with the nominating Council Member’s term of office and may be changed by that city council member at any time during their term in office. Councilmember Ivy has chosen Matthew Wich to fill the position of his Planning Commissioner.

Council Goals/Objectives: This item executes portions of work tasks towards High Performance Government and Quality Service Goal # 5.A.3: Continue to build cooperative relationships with representatives from service clubs and other community groups.

Fiscal Impact: N/A

Funds Available: N/A

Account #: N/A

Reviewed by: ___ City Manager

Attachments: None



City of Grass Valley City Council Agenda Action Sheet

Title: Loma Rica Open Space Fuel Reduction Project

CEQA: Exempt under CEQA Guideline §15304, Categorical Exemption Class 4 (“Minor Alterations to Land”)

Recommendation: That Council authorize the advertisement for bids for the Loma Rica Open Space Fuels Reduction Project.

Prepared by: Tim Kiser, City Manager

Council Meeting Date: 04/08/2025

Date Prepared: 04/04/2025

Agenda: Consent

Background Information: At its meeting on November 12, 2024, the City Council authorized staff to accept the dedication of open space land across the Loma Rica Ranch property. This land dedication is intended to enhance the City’s ability to protect and manage the natural, scenic, historical, and conservation values of the area, while also supporting future trail development and land improvement projects.

The newly acquired City-owned open space encompasses approximately 200 acres of heavily forested land with dense underbrush. To mitigate wildfire risk and improve overall forest health, a hazardous fuel reduction project is proposed. The project will involve the selective removal of surface fuels, brush and shrubs, live trees under 10 inches in diameter at breast height, and other ladder fuels that contribute to the ignition and spread of wildfire. Vegetation removal will be achieved through a combination of mechanical mastication, hand crew cutting, chipping, and mulching.

The primary goals of the project are to:

- Disrupt vertical and horizontal fuel continuity;
- Reduce the intensity and spread of potential wildfires;
- Enhance ingress and egress for emergency response; and
- Restore a healthy, park-like forest condition that is more fire-resilient.

Vegetation in the treatment area is best described as a mixed conifer forest with a manzanita understory. Residual trees will be pruned to a height of approximately 8 to 10 feet. Dead trees of any size may be felled and chipped, masticated, or mulched. The resulting material may be scattered on site in a manner consistent with habitat preservation, burned using an air curtain burner (with appropriate permits), or removed for offsite processing.

Environmental protection measures will be strictly observed. All activities will avoid watershed areas within 50 feet of Whitewater Creek, Wolf Creek, their tributaries, or any

blue line waterways, including irrigation ditches, as identified on current USGS 7.5-minute topographic maps. Areas located within FEMA-designated flood zones will be treated using hand tools only. Known archaeological or cultural resources will be avoided, and if any such resources are discovered during operations, work in the area will cease until a qualified cultural resource specialist provides further guidance.

The Loma Rica Open Space Fuel Reduction Project qualifies for a Categorical Exemption under the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15304, Class 4 (“Minor Alterations to Land”).

The total project cost is estimated at \$400,000. Bid documents are available for public review at City Hall. Staff anticipates awarding a contract in Spring 2025, with fuel reduction work to commence shortly thereafter.

Staff recommends that the City Council authorize the public bidding process for this project.

Council Goals/Objectives: The Loma Rica Hazardous Fuels Reduction Project works towards achieving/maintaining the 2022 Strategic Plan Update: Community Safety and City Infrastructure Investment.

Fiscal Impact: Measure B Funds are anticipated to be used to hire a contractor to prepare a hazardous fuel treatment prescription and carry out treatment of the City-owned Loma Rica Open Space parcels. This will be subject to Measure B oversight committee and City Council approval prior to the award of this project.

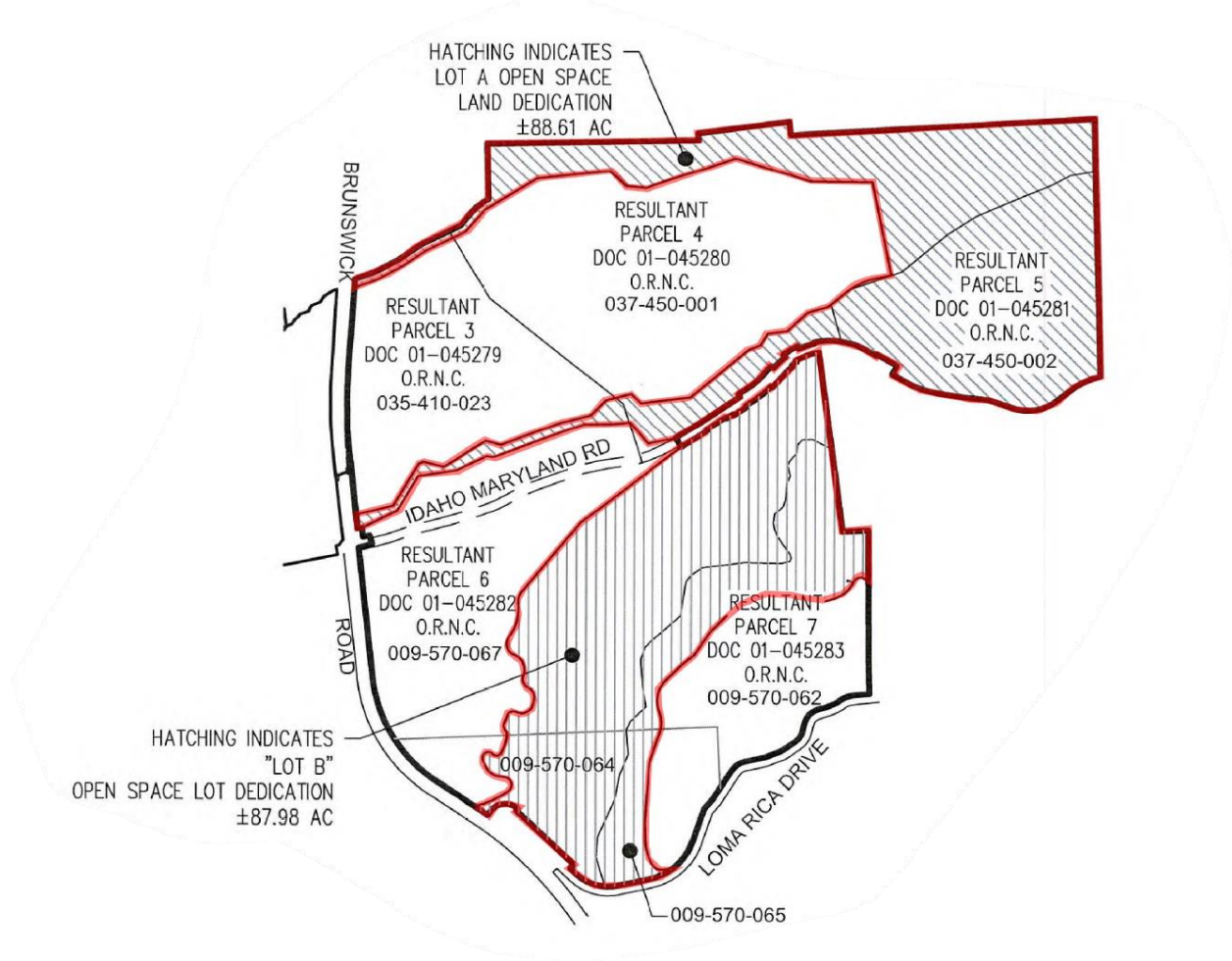
Funds Available: Yes

Account #: 207-102-51110

Reviewed by: ____ City Manager

Attachments: Project Area Maps

Location Project Maps





City of Grass Valley City Council Agenda Action Sheet

Title: Appointment of Measure E Oversight Committee Members

CEQA: Not a Project

Recommendation: That the City Council appoint Measure E Oversight Committee member Branstrom to a term ending December 2028.

Prepared by: Taylor Whittingslow, Deputy City Manager

Council Meeting Date: 4/8/2025

Date Prepared: 4/7/2025

Agenda: Consent

Background Information: In 2018, Grass Valley citizens voted to approve Measure E, a voter initiative tax measure that repealed the previous 1/2 percent City transaction and use (sales) tax and replaced it with an ongoing 1 percent sales tax. Measure E expands funding for such general fund purposes as increased police and fire services, enhancing parks and recreational services, and improving streets and sidewalks. All Measure E funds stay local, and all expenditures are subject to an annual audit by an independent citizen oversight committee.

The Citizen’s Oversight Committee reviews an independent audit of tax receipts and how they are spent each year and advises the City Council on how tax money should be spent. The Council must discuss the audit results at a public meeting each year and post them on the City’s website.

The most recently elected city councilmembers were tasked with nominating one new Measure E Oversight Committee member:

- Councilmember Arbuckle has nominated Grass Valley community member Bob Branstrom.

Council Goals/Objectives: The Measure E Oversight Committee executes portions of work tasks towards achieving/maintaining Strategic Plan - Open and Collaborative City Government.

Fiscal Impact: N/A

Funds Available: N/A

Account #: N/A

Reviewed by: ___ City Manager



**City of Grass Valley
City Council
Agenda Action Sheet**

Title: Approve Resolution 2025-09 Renaming the road through Memorial Park to Lou Conter Way

CEQA: Not a project

Recommendation: That the City Council approve Resolution 2025-09 naming of a street within Memorial Park in Grass Valley, CA, in honor of Lou Conter, in recognition of his distinguished military service and contributions to the nation and community.

Prepared by: Tim Kiser, City Manager

Council Meeting Date: 04/08/2025

Date Prepared: 04/03/2025

Agenda: Administrative

Background Information: Lou Conter (1921-2024) was a highly decorated U.S. Navy veteran and a longtime Grass Valley resident. At the time of his passing, he was the last surviving crew member of the USS Arizona, which was tragically lost during the attack on Pearl Harbor in 1941. On that fateful day, he courageously aided wounded shipmates and helped evacuate those who were blinded, burned, or injured. In the aftermath of the attack, he assisted with recovery efforts and continued serving his country with distinction.

Following Pearl Harbor, Conter's military career spanned World War II and the Korean War. He was awarded the Distinguished Flying Cross for his heroic role in rescuing 219 Australians in New Guinea. He later served as an intelligence officer and advisor to Presidents Eisenhower, Kennedy, and Johnson, and played a pivotal role in the development of the Navy's Survival, Evasion, Resistance, and Escape (SERE) training program. Among his many honors, he received the Navy Commendation Medal and was the first recipient of the USS Arizona Medal of Freedom.

Naming a street in Memorial Park after Lou Conter is a fitting tribute to his extraordinary service and heroism, ensuring that his sacrifices and contributions are remembered for generations to come. Memorial Par

Honoring Lou Conter by naming a street in Memorial Park aligns with the City of Grass Valley's commitment to recognizing distinguished community members and military heroes. Staff recommends that the City Council approve this initiative.

Council Goals/Objectives: The execution of this action attempts to achieve the following Strategic Goals - Community and Sense of Place.

Fiscal Impact: The cost of signage and minor administrative updates is expected to be minimal and will be covered under the city's existing budget for park maintenance and improvements.

Funds Available: Yes

Account #: 100-503-51020

Reviewed by: City Manager

Attachments:

- Resolution 2025-09 Approving the Naming of the Street through Memorial Park from Oak Street to Race Street as "Lou Conter Way"
- Exhibit A - Location Map

Exhibit A - Location Map

Proposed Lou Conter Way in Memorial Park (Green Highlighted Section)



RESOLUTION 2025-09

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GRASS VALLEY APPROVING THE NAMING OF THE STREET THROUGH MEMORIAL PARK FROM OAK STREET TO RACE STREET AS "LOU CONTER WAY"

WHEREAS, the City of Grass Valley is committed to recognizing distinguished community members and military heroes who have made significant contributions to the nation and local community; and

WHEREAS, Lou Conter (1921–2024) was a highly decorated U.S. Navy veteran and a longtime Grass Valley resident, whose heroic actions and military service exemplify courage, dedication, and sacrifice; and

WHEREAS, Lou Conter was the last surviving crew member of the USS Arizona, which was tragically lost during the attack on Pearl Harbor on December 7, 1941, and on that day, he displayed exceptional bravery in aiding and evacuating wounded shipmates; and

WHEREAS, following the attack on Pearl Harbor, Lou Conter continued his distinguished military career through service in World War II and the Korean War, earning the Distinguished Flying Cross for his heroic role in rescuing 219 Australians in New Guinea; and

WHEREAS, Lou Conter further served as an intelligence officer and advisor to Presidents Eisenhower, Kennedy, and Johnson and played a pivotal role in developing the U.S. Navy's Survival, Evasion, Resistance, and Escape (SERE) training program; and

WHEREAS, among his many honors, Lou Conter received the Navy Commendation Medal and was the first recipient of the USS Arizona Medal of Freedom; and

WHEREAS, after retiring as a Lieutenant Commander in 1967, Lou Conter dedicated his life to educating future generations through veterans' ceremonies and student lectures, ensuring that the sacrifices of those who served would never be forgotten; and

WHEREAS, naming a street in Memorial Park in his honor serves as a fitting and lasting tribute to his legacy, ensuring that his service, heroism, and dedication to the nation and the Grass Valley community are memorialized for future generations; and

WHEREAS, the proposed street renaming has been reviewed and recommended by City staff, and the minor cost associated with signage and administrative updates will be covered under the existing city budget for park maintenance and improvements.

NOW THEREFORE BE IT RESOLVED

The City Council of the City of Grass Valley hereby approves the naming of the street through Memorial Park, from Oak Street to Race Street, as "Lou Conter Way" in honor of Lieutenant Commander Lou Conter's distinguished service and contributions to the community and the nation.

ADOPTED as a Resolution of the City Council of the City of Grass Valley at a regular meeting held on the 8th day of April 2025 by the following vote:

- AYES: Council Member
- NOES: Council Member
- ABSENT: Council Member
- ABSTAINING: Council Member

Hilary Hodge, Chair

ATTEST:

Taylor Whittingslow, City Clerk

APPROVED AS TO FORM:

Michael Colantuono, City Attorney



City of Grass Valley City Council Agenda Action Sheet

Title: Partnership between Grass Valley Police Animal Services and Wayward Journey

CEQA: Not a project

Recommendation: That Council (1) receive a presentation by GVPD and Wayward Journey; and (2) direct the Chief of Police to sign an MOU, subject to legal review.

Prepared by: Brian Blakemore, Police Lieutenant

Council Meeting Date: 04/08/2025

Date Prepared: 04/01/2025

Agenda: Administrative

Background Information

In mid-2024, the Grass Valley Police Department was approached by Alexandra Maloney who was interested in starting a new non-profit organization (NPO) with a goal of working with the Grass Valley Animal Shelter. The intent of the NPO, in coordination with staff, is to care for shelter animals by coordinating in-home foster care, conducting socialization and behavioral training, hosting vaccine clinics, raising money for specialized medical care, and more. GVPD staff met with Maloney and incorporated representatives from California Intergovernmental Risk Authority (CIRA) to come up with the framework of a relationship. That framework has been transformed into an MOU between the City and Wayward Journey and has been reviewed by the City Attorney.

The formalized partnership between the City and Wayward Journey will enhance the services we provide to the community. Their work inside and outside of the shelter will undoubtedly lead to an increase in the successful adoption of shelter animals. Wayward Journey's investment in socialization and training will also free up some City staff time which can be redirected into other meaningful endeavors.

Wayward Journey intends to raise money through community donations, offering these services as a benefit to the community's animals and is not asking for financial support from the City.

Council Goals/Objectives: This action executes portions of Strategic Plan Core Goal of an efficient workplace and high-quality public safety services.

Fiscal Impact: No direct financial impact. Net positive in staff-time savings and shorter animal shelter stays.

Funds Available: N/A

Account #:

Reviewed by: City Manager

MEMORANDUM OF UNDERSTANDING

(City of Grass Valley / Wayward Journey)

1. IDENTIFICATION

This MEMORANDUM OF UNDERSTANDING (“Agreement”) is entered into by and between the City of Grass Valley, a California municipal corporation (“City”), and Wayward Journey, a California non-profit public benefit corporation (“Consultant”). The City and Consultant are collectively referred to herein as the “Parties.”

2. RECITALS

- 2.1. City has determined that it requires the following professional services from a consultant: **Animal shelter services.**
- 2.2. Consultant represents that it is fully qualified to perform such professional services by virtue of its experience and the training, education and expertise of its principals and employees. Consultant further represents that it is willing to accept responsibility for performing such services in accordance with the terms and conditions set forth in this Agreement.
- 2.3. Consultant represents that it has no known relationships with third parties, City Council members, or employees of City which would (1) present a conflict of interest with the rendering of services under this Agreement under Government Code Section 1090, the Political Reform Act (Government Code Section 81000 *et seq.*), or other applicable law, (2) prevent Consultant from performing the terms of this Agreement, or (3) present a significant risk of the disclosure of confidential information.

NOW, THEREFORE, for and in consideration of the mutual covenants and conditions herein contained, City and Consultant agree as follows:

3. DEFINITIONS

- 3.1. “Scope of Services”: Such professional services as are set forth in Exhibit A, attached hereto and incorporated herein by this reference.
- 3.2. “Agreement Administrator”: The Agreement Administrator for this project is [Name and title]. The Agreement Administrator shall be the principal point of contact at the City for this project. All services under this Agreement shall be performed at the request of the Agreement Administrator. The Agreement Administrator will establish the timetable for completion of services and any interim milestones. City reserves the right to change this designation upon written notice to Consultant
- 3.3. “Approved Fee Schedule”: Consultant’s compensation rates are set forth in the fee schedule attached hereto as Exhibit B and incorporated herein by this reference. This

fee schedule shall remain in effect for the duration of this Agreement unless modified in writing by mutual agreement of the parties.

- 3.4. “Maximum Amount”: The highest total compensation and costs payable to Consultant by City under this Agreement. The Maximum Amount under this Agreement is [redacted] Dollars (\$ [redacted]).
- 3.5. “Commencement Date”: [date].
- 3.6. “Termination Date”: [date]

4. CAMPAIGN CONTRIBUTIONS

This Agreement is subject to Government Code section 84308. Consultant shall disclose any contribution to an elected or appointed City official’s campaign or committee of more than \$500 in 12 months preceding the Commencement Date or earlier date provided by the statute, by Consultant, its, her, or his agent, or another party affiliated with Consultant. Consultant shall provide a signed copy of the attached Campaign Contribution Disclosure Form to City before, or concurrently with, Consultant’s execution of this Agreement and no later than the Commencement Date.

5. TERM

The term of this Agreement shall commence at 12:00 a.m. on the Commencement Date and shall expire at 11:59 p.m. on the Termination Date unless extended by written agreement of the parties or terminated earlier under Section 17 (“Termination”) below. Consultant may request extensions of time to perform the services required hereunder. Such extensions shall be effective if authorized in advance by City in writing and incorporated in written amendments to this Agreement.

6. CONSULTANT’S AND CITY’S DUTIES

6.1. Consultant’s Duties

- 6.1.1. **Consultant’s Services.** Consultant shall perform the services identified in the Scope of Services. City shall have the right to request, in writing, changes in the Scope of Services. Any such changes mutually agreed upon by the parties, and any corresponding increase or decrease in compensation, shall be incorporated by written amendment to this Agreement.
- 6.1.2. **Coordination with City.** In performing services under this Agreement, Consultant shall coordinate all contact with City through its Agreement Administrator.
- 6.1.3. **Budgetary Notification.** Consultant shall notify the Agreement Administrator, in writing, when fees and expenses incurred under this Agreement have reached eighty percent (80%) of the Maximum Amount. Consultant shall concurrently

inform the Agreement Administrator, in writing, of Consultant's estimate of total expenditures required to complete its current assignments before proceeding, when the remaining work on such assignments would exceed the Maximum Amount.

- 6.1.4. **Business License.** Consultant shall obtain and maintain in force a City business license for the duration of this Agreement.
- 6.1.5. **Professional Standards.** Consultant shall perform all work to the standards of Consultant's profession and in a manner reasonably satisfactory to City. Consultant shall keep itself fully informed of and in compliance with all local, state, and federal laws, rules, and regulations in any manner affecting the performance of this Agreement, including all Cal/OSHA requirements, the conflict-of-interest provisions of Government Code § 1090 and the Political Reform Act (Government Code § 81000 et seq.).
- 6.1.6. **Avoid Conflicts.** During the term of this Agreement, Consultant shall not perform any work for another person or entity for whom Consultant was not working at the Commencement Date if such work would present a conflict interfering with performance under this Agreement. However, City may consent in writing to Consultant's performance of such work.
- 6.1.7. **Appropriate Personnel.** Consultant has, or will secure at its own expense, all personnel required to perform the services identified in the Scope of Services. All such services shall be performed by Consultant or under its supervision, and all personnel engaged in the work shall be qualified to perform such services. [Name of Project Manager] shall be Consultant's project administrator and shall have direct responsibility for management of Consultant's performance under this Agreement. No change shall be made in Consultant's project administrator without City's prior written consent.
- 6.1.8. **Substitution of Personnel.** Naming any persons in the proposal or Scope of Services constitutes a promise to the City that those persons will perform and coordinate their respective services under this Agreement. Should one or more of such personnel become unavailable, Consultant may substitute other personnel of at least equal competence upon written approval of City. If City and Consultant cannot agree as to the substitution of key personnel, City may terminate this Agreement for cause.
- 6.1.9. **Permits and Approvals.** Consultant shall obtain, at its sole cost and expense, all permits and regulatory approvals necessary for Consultant's performance of this Agreement. This includes, but shall not be limited to, professional licenses, encroachment permits, and building and safety permits and inspections.
- 6.1.10. **Notification of Organizational Changes.** Consultant shall notify the Agreement Administrator, in writing, of any change in name, ownership or control of

Consultant's firm or of any subcontractor. Change of ownership or control of Consultant's firm may require an amendment to this Agreement.

6.1.11. **Records.** Consultant shall maintain all ledgers, books of account, invoices, vouchers, canceled checks, and other records or documents evidencing or relating to charges for services or expenditures and disbursements charged to City under this Agreement for a minimum of three (3) years, or for any longer period required by law, from the date of final payment to Consultant under this Agreement. All such documents shall be made available for inspection, audit, and/or copying at any time during regular business hours, upon oral or written request of City. In addition, pursuant to Government Code § 8546.7, if the amount of public funds expended under this Agreement exceeds \$10,000, all such documents and this Agreement shall be subject to the examination and audit of the State Auditor, at the request of City or as part of any audit of City, for a period of three (3) years after final payment under this Agreement.

6.2. **City's Duties**

6.2.1. **City's Duties.** City shall perform the services identified in the Scope of Services. The Parties shall have the right to request, in writing, changes in the Scope of Services. Any such changes mutually agreed upon by the parties, and any corresponding increase or decrease in compensation, shall be incorporated by written amendment to this Agreement.

7. **SUBCONTRACTING**

7.1. **General Prohibition.** This Agreement covers professional services of a specific and unique nature. Except as otherwise provided herein, Consultant shall not assign or transfer its interest in this Agreement or subcontract any services to be performed other than by an amendment to this Agreement.

7.2. **Consultant Responsible.** Consultant shall be responsible to City for all services to be performed under this Agreement.

7.3. **Identification in Fee Schedule.** All subcontractors shall be specifically listed, and their billing rates identified in the Approved Fee Schedule, Exhibit B. Any changes must be approved by the Agreement Administrator in writing.

7.4. **Compensation for Subcontractors.** City shall pay Consultant for work performed by its subcontractors, if any, only at Consultant's actual cost plus an approved mark-up as set forth in the Approved Fee Schedule, Exhibit B. Consultant shall be liable and accountable for all payments, compensation, and federal and state taxes to all subcontractors performing services under this Agreement. City shall not be liable for any payment, compensation, or federal and state taxes to or for any subcontractors.

8. COMPENSATION

- 8.1. **General.** City agrees to compensate Consultant for the services provided under this Agreement, and Consultant agrees to accept payment in accordance with the Fee Schedule in full satisfaction for such services. Compensation shall not exceed the Maximum Amount. Consultant shall not be reimbursed for any expenses unless provided for in this Agreement or authorized in writing by the Agreement Administrator in advance.
- 8.2. **Invoices.** Consultant shall submit to City an invoice, on a monthly basis or as otherwise agreed to by the Agreement Administrator, for services performed pursuant to this Agreement. Each invoice shall identify the Maximum Amount, the services rendered during the billing period, the amount due for the invoice, and the total amount previously invoiced. All labor charges shall be itemized by employee name and classification or position with the firm, the corresponding hourly rate, the hours worked, a description of each labor charge, and the total amount due for labor charges.
- 8.3. **Taxes.** City shall not withhold applicable taxes or other payroll deductions from payments made to Consultant except as otherwise required by law. Consultant shall be solely responsible for calculating, withholding, and paying all taxes.
- 8.4. **Disputes.** The parties agree to meet and confer at mutually agreeable times to resolve any disputed amounts in an invoice submitted by Consultant.
- 8.5. **Additional Work.** Consultant shall not be reimbursed for any expenses incurred for work performed outside the Scope of Services unless prior written approval is given by the City through a fully executed written amendment to this Agreement. Consultant shall not undertake any such work without prior written approval of the Project Administrator.
- 8.6. **City Satisfaction as Precondition to Payment.** Notwithstanding any other terms of this Agreement, no payments shall be made to Consultant until City is satisfied that the services are satisfactory.
- 8.7. **Right to Withhold Payments.** If Consultant fails to provide a deposit or promptly satisfy an indemnity obligation described in Section 12, City shall have the right to withhold payments under this Agreement to offset that amount.

9. PREVAILING WAGES

Consultant is aware of the requirements of California Labor Code Section 1720, et seq., and 1770, et seq., as well as California Code of Regulations, Title 8, Section 16000, et seq., (“Prevailing Wage Laws”), which require the payment of prevailing wage rates and the performance of other requirements on certain “public works” and “maintenance” projects. This Agreement is subject to Prevailing Wage Laws, for all work performed under this Agreement for which the payment of prevailing wage is required by those laws. Consultant shall defend,

indemnify, and hold the City, its elected officials, officers, employees, and agents free and harmless from any claim or liability arising out of any failure or alleged failure of Consultant to comply with the Prevailing Wage Laws.

10. OWNERSHIP OF WRITTEN PRODUCTS

All reports, documents or other written material, and all electronic files, including computer-aided design files, developed by Consultant in the performance of this Agreement (such written material and electronic files are collectively known as “written products”) shall be and remain the property of City without restriction or limitation upon its use or dissemination by City except as provided by law. Consultant may take and retain copies of such written products as desired, but no such written products shall be the subject of a copyright application by Consultant.

11. RELATIONSHIP OF PARTIES

- 11.1. **General.** Consultant shall be a wholly independent contractor as to the City under this Agreement.
- 11.2. **No Agent Authority.** Consultant shall have no power to incur any debt, obligation, or liability on behalf of City or to otherwise act on behalf of City as an agent. Neither City nor any of its agents shall have control over the conduct of Consultant or any of Consultant’s employees, except as set forth in this Agreement. Consultant shall not represent in any manner that it is, or that any of its agents or employees are, employees of City.
- 11.3. **Independent Contractor Status.** Under no circumstances shall Consultant or its employees look to the City as an employer. Consultant shall not be entitled to any benefits. City makes no representation as to the effect of this independent contractor relationship on Consultant’s previously earned California Public Employees Retirement System (“CalPERS”) retirement benefits, if any, and Consultant specifically assumes the responsibility for making such a determination. Consultant shall be responsible for all reports and obligations including, but not limited to: social security taxes, income tax withholding, unemployment insurance, disability insurance, and workers’ compensation, and other applicable federal and state taxes.
- 11.4. **Indemnification of CalPERS Determination.** If Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement claims or is determined by a court of competent jurisdiction or CalPERS to be eligible for enrollment in CalPERS as an employee of the City, Consultant shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for CalPERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

12. INDEMNIFICATION

- 12.1. **Definitions.** For purposes of this Section, “Consultant” shall include Consultant, its officers, employees, servants, agents, or subcontractors, or anyone directly or indirectly employed by either Consultant or its subcontractors, in the performance of this Agreement. “City” shall include City, its officers, agents, employees and volunteers.
- 12.2. **Consultant to Indemnify City.** To the fullest extent permitted by law, Consultant shall indemnify, hold harmless, and defend City from and against all claims, losses, costs or expenses for any personal injury or property damage arising out of or in connection with Consultant’s alleged negligence, recklessness or willful misconduct or other wrongful acts, errors or omissions of Consultant or failure to comply with any provision in this Agreement.
- 12.3. **Scope of Indemnity.** Personal injury shall include injury or damage due to death or injury to any person, whether physical, emotional, consequential or otherwise. Property damage shall include injury to any personal or real property. Consultant shall not be required to indemnify City for such loss or damage as is caused by the sole active negligence or willful misconduct of the City.
- 12.4. **Attorney Fees.** Such costs and expenses shall include reasonable attorney’ fees for counsel of City’s choice, expert fees, and all other costs and fees of litigation. Consultant shall not be entitled to any refund of attorney’ fees, defense costs, or expenses if it is adjudicated to have been non-negligent.
- 12.5. **Defense Deposit.** The City may request a deposit for defense costs from Consultant with respect to a claim. If the City requests a defense deposit, Consultant shall provide it within 15 days of the request.
- 12.6. **Waiver of Statutory Immunity.** The obligations of Consultant under this Section are not limited by the provisions of any workers’ compensation act or similar act. Consultant expressly waives its statutory immunity under such statutes or laws as to City.
- 12.7. **Indemnification by Subcontractors.** Consultant agrees to obtain executed indemnity agreements with provisions identical to those set forth here in this Section from every subcontractor or any other person or entity involved in the performance of this Agreement on Consultant’s behalf.
- 12.8. **Insurance Not a Substitute.** City does not waive any indemnity rights by accepting any insurance policy or certificate required pursuant to this Agreement. Consultant’s indemnification obligations apply whether or not any insurance policies are determined to be applicable to the claim, demand, damage, liability, loss, cost or expense.

13. INSURANCE

13.1. **Insurance Required.** Consultant shall maintain insurance as described in this Section and shall require all its subcontractors, consultants, and other agents to do the same. Approval of the insurance by the City shall not relieve or decrease any liability of Consultant. Any requirement for insurance to be maintained after completion of the work shall survive this Agreement.

13.2. **Documentation of Insurance.** City will not execute this Agreement until it has received a complete set of all required documentation of insurance coverage. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant’s obligation to provide them. Consultant shall file with City:

- Certificate of Insurance, indicating companies acceptable to City, with a Best’s Rating of no less than A:VII showing. The Certificate of Insurance must include the following reference: Animal shelter services.
- Documentation of Best’s rating acceptable to the City.
- Original endorsements effecting coverage for all policies required by this Agreement.
- Complete, certified copies of all required insurance policies, including endorsements affecting the coverage.

13.3. **Coverage Amounts.** Insurance coverage shall be at least in the following minimum amounts:

- Professional Liability Insurance: \$1,000,000 per occurrence,
\$2,000,000 aggregate
- General Liability:
 - General Aggregate: \$2,000,000
 - Products Comp/Op Aggregate \$2,000,000
 - Personal & Advertising Injury \$1,000,000
 - Each Occurrence \$1,000,000
 - Fire Damage (any one fire) \$ 50,000
 - Medical Expense (any 1 person) \$ 5,000
- Workers’ Compensation:
 - Workers’ Compensation Statutory Limits
 - EL Each Accident \$1,000,000
 - EL Disease - Policy Limit \$1,000,000
 - EL Disease - Each Employee \$1,000,000
- Automobile Liability
 - Any vehicle, combined single limit \$1,000,000

Any available insurance proceeds broader than or in excess of the specified minimum insurance coverage requirements or limits shall be available to the additional insured. Furthermore, the requirements for coverage and limits shall be the greater of (1) the minimum coverage and limits specified in this Agreement, or (2) the broader coverage and maximum limits of coverage of any insurance policy or proceeds available to the named insured.

- 13.4. **General Liability Insurance.** Commercial General Liability Insurance shall be no less broad than ISO form CG 00 01. Coverage must be on a standard Occurrence form. Claims-Made, modified, limited or restricted Occurrence forms are not acceptable.
- 13.5. **Worker’s Compensation Insurance.** Consultant is aware of the provisions of Section 3700 of the Labor Code which requires every employer to carry Workers’ Compensation (or to undertake equivalent self-insurance), and Consultant will comply with such provisions before commencing the performance of the work of this Agreement. If such insurance is underwritten by any agency other than the State Compensation Fund, such agency shall be a company authorized to do business in the State of California. If Consultant is an individual and has no employees, the Project Administrator may accept an affirmation of that fact in lieu of proof of workers compensation insurance.
- 13.6. **Automobile Liability Insurance.** Covered vehicles shall include owned, if any, non-owned, and hired automobiles and trucks.
- 13.7. **Professional Liability Insurance or Errors & Omissions Coverage.** The deductible or self-insured retention may not exceed \$50,000. If the insurance is on a Claims-Made basis, the retroactive date shall be no later than the commencement of the work. Coverage shall be continued for two years after the completion of the work by one of the following: (1) renewal of the existing policy; (2) an extended reporting period endorsement; or (3) replacement insurance with a retroactive date no later than the commencement of the work under this Agreement.

The Project Administrator may, in his or her sole discretion, waive the requirement for Professional Liability Insurance by initialing here:

Initials: _____

Name: _____

- 13.8. **Claims-Made Policies.** If any of the required policies provide coverage on a claims-made basis, the Retroactive Date must be shown and must be before the date of this Agreement or the beginning of work under this Agreement. Claims-Made Insurance must be maintained, and evidence of insurance must be provided for at least five (5) years after completion of work under this Agreement. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a Retroactive Date prior to the effective date of this Agreement, the Consultant must purchase

“extended reporting” coverage for a minimum of five (5) years after completion of work under this Agreement.

- 13.9. **Additional Insured Endorsements.** The City, its City Council, Commissions, officers, and employees must be endorsed as additional insureds for each policy required herein, other than Professional Errors and Omissions and Worker’s Compensation, for liability arising out of ongoing and completed operations by or on behalf of the Consultant. Consultant’s insurance policies shall be primary as respects any claims related to or as the result of the Consultant’s work. Any insurance, pooled coverage or self-insurance maintained by the City, its elected or appointed officials, officers, agents, employees, volunteers, or consultants shall be non-contributory. All endorsements shall be signed by a person authorized by the insurer to bind coverage on its behalf. General liability coverage can be provided using an endorsement to the Consultant’s insurance at least as broad as ISO Form CG 20 10 11 85 or both CG 20 10 and CG 20 37.
- 13.10. **Failure to Maintain Coverage.** In the event any policy is canceled prior to the completion of work under this Agreement and the Consultant does not furnish a new certificate of insurance prior to cancellation, City has the right, but not the duty, to obtain the required insurance and deduct the premium(s) from any amounts due the Consultant under this Agreement. Failure of the Consultant to maintain the insurance required by this Agreement, or to comply with any of the requirements of this Section, shall constitute a material breach of this Agreement.
- 13.11. **Notices.** Consultant shall provide immediate written notice if (1) any of the required insurance policies is terminated; (2) the limits of any of the required policies are reduced; (3) or the deductible or self-insured retention is increased. Consultant shall provide no less than 30 days’ notice of any cancellation or material change to policies required by this Agreement. Consultant shall provide proof that cancelled or expired policies of insurance have been renewed or replaced with other policies providing at least the same coverage. Such proof will be furnished at least two weeks before expiration of the coverages. The name and address for Additional Insured Endorsements, Certificates of Insurance and Notices of Cancellation is: City of Grass Valley, Attn: [insert department or individual], 125 East Main Street, Grass Valley, CA 95945.
- 13.12. **Consultant’s Insurance Primary.** The insurance provided by Consultant, including all endorsements, shall be primary to any coverage available to City. Any insurance or self-insurance maintained by City and/or its officers, employees, agents or volunteers, shall be in excess of Consultant’s insurance and shall not contribute with it.
- 13.13. **Waiver of Subrogation.** Consultant hereby waives all rights of subrogation against the City. Consultant shall additionally waive such rights either by endorsement to each policy or provide proof of such waiver in the policy itself.

13.14. **Report of Claims to City.** Consultant shall report to the City, in addition to the Consultant’s insurer, all insurance claims submitted to Consultant’s insurer in connection with the services under this Agreement.

13.15. **Premium Payments and Deductibles.** Consultant must disclose all deductibles and self-insured retention amounts to the City. The City may require the Consultant to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within retention amounts. Ultimately, City must approve all such amounts before execution of this Agreement.

City has no obligation to pay any premiums, assessments, or deductibles under any policy required in this Agreement. Consultant shall be responsible for all premiums and deductibles in all of Consultant’s insurance policies.

13.16. **Duty to Defend and Indemnify.** Consultant’s duties to defend and indemnify City under this Agreement shall not be limited by the foregoing insurance requirements and shall survive the expiration of this Agreement or its early termination.

14. MUTUAL COOPERATION

14.1. **City Cooperation in Performance.** City shall provide Consultant with all pertinent data, documents and other requested information as are reasonably available for the proper performance of Consultant’s services under this Agreement.

14.2. **Consultant Cooperation in Defense of Claims.** If any claim or action is brought against City relating to Consultant’s performance in connection with this Agreement, Consultant shall render any reasonable assistance that City may require in the defense of that claim or action.

15. NOTICES

Any notices, bills, invoices, or reports required by this Agreement shall be deemed received on: (i) the day of delivery if delivered by hand, facsimile or overnight courier service during Consultant’s and City’s regular business hours; or (ii) on the third business day following deposit in the United States mail if delivered by mail, postage prepaid, to the addresses listed below (or to such other addresses as the parties may, from time to time, designate in writing).

If to City:

[Name]
City of Grass Valley
[Department/Division]
125 E Main Street
Grass Valley, CA 95945
Telephone: (530) 274-[XXXX]
Facsimile: (530) 274-4399

If to Consultant:

[Name]
[Address]
[Address]
Telephone:
Facsimile:

With courtesy copy to:

Michael G. Colantuono, Esq.
 Grass Valley City Attorney
 Colantuono, Highsmith & Whatley, PC
 420 Sierra College Drive, Suite 140
 Grass Valley, CA 95945
 Telephone: (530) 432-7357
 Facsimile: (530) 432-7356

16. SURVIVING COVENANTS

The parties agree that the covenants contained in Section 6.11 (Records), Section 11.4 (Indemnification of CalPERS Determination), Section 12 (Indemnification), Section 13.8 (Claims-Made Policies), Section 14.2 (Consultant Cooperation in Defense of Claims), and Section 19.1 (Confidentiality) of this Agreement shall survive the expiration or termination of this Agreement.

17. TERMINATION

- 17.1. **City Termination.** City may terminate this Agreement for any reason on five calendar days' written notice to Consultant. Consultant agrees to cease all work under this Agreement on or before the effective date of any notice of termination. All City data, documents, objects, materials or other tangible things shall be returned to City upon the termination or expiration of this Agreement.
- 17.2. **Consultant Termination.** Consultant may terminate this Agreement for a material breach of this Agreement upon 30 days' notice to allow City time to procure replacement services.
- 17.3. **Compensation Following Termination.** Upon termination, Consultant shall be paid based on the work satisfactorily performed at the time of termination. In no event shall Consultant be entitled to receive more than the amount that would be paid to Consultant for the full performance of the services required by this Agreement. The City shall have the benefit of such work as may have been completed up to the time of such termination.
- 17.4. **Remedies.** City retains all available legal and equitable remedies for Consultant's breach of this Agreement.

18. INTERPRETATION OF AGREEMENT

- 18.1. **Governing Law.** This Agreement shall be governed and construed in accordance with the laws of the State of California.

- 18.2. **Integration of Exhibits.** All documents referenced as exhibits in this Agreement are hereby incorporated into this Agreement. In the event of any material discrepancy between the provisions of this Agreement and its exhibits, the provisions of this Agreement shall prevail. This instrument contains the entire Agreement between City and Consultant with respect to the transactions contemplated herein. No other prior oral or written agreements are binding upon the parties. Amendments hereto or deviations from this Agreement shall be effective and binding only if made in writing and executed by City and Consultant.
- 18.3. **Headings.** The headings and captions appearing at the commencement of the sections hereof, and in any paragraph thereof, are for convenience of reference to this Agreement. Should there be any conflict between such heading, and the section or paragraph thereof at the head of which it appears, the language of the section or paragraph shall govern in the construction of this Agreement.
- 18.4. **Pronouns.** Masculine or feminine pronouns shall be substituted for the neuter form and vice versa, and the plural shall be substituted for the singular form and vice versa, in any place or places herein in which the context requires such substitution(s).
- 18.5. **Severability.** If any term or provision of this Agreement or the application thereof to any person or circumstance shall, to any extent, be invalid or unenforceable, then such term or provision shall be amended to, and solely to the extent necessary to, cure such invalidity or unenforceability, and shall be enforceable in its amended form. In such event, the remainder of this Agreement, or the application of such term or provision to persons or circumstances other than those as to which it is held invalid or unenforceable, shall not be affected, and each term and provision of this Agreement shall be valid and be enforced to the fullest extent permitted by law.
- 18.6. **No Presumption Against Drafter.** Each party had an opportunity to consult with an attorney in reviewing and drafting this agreement. Any uncertainty or ambiguity shall not be construed for or against any party based on attribution of drafting to any party.

19. GENERAL PROVISIONS

- 19.1. **Confidentiality.** All data, documents, discussion, or other information developed or received by Consultant for performance of this Agreement are deemed confidential and Consultant shall not disclose them without prior written consent by the Project Administrator. City shall grant such consent if disclosure is legally required. Consultant shall return all City data to City upon the termination or expiration of this Agreement.
- 19.2. **Conflicts of Interest.** Consultant maintains and warrants that it has not employed nor retained any company or person, other than a bona fide employee working solely for Consultant, to solicit or secure this Agreement. Further, Consultant warrants that it has not paid, nor has it agreed to pay any company or person, other than a bona fide employee working solely for Consultant, any fee, commission, percentage, brokerage fee, gift or other consideration contingent upon or resulting from the award or making

of this Agreement. Consultant further agrees to file, or shall cause its employees or subcontractors to file, a Statement of Economic Interest under the Political Reform Act with the City's Filing Officer if required under state law in the performance of the services. For breach or violation of this warranty, City shall have the right to rescind this Agreement without liability. No City Councilmember, officer, or employee of City, during the term of his or her service to City, shall have any direct interest in this Agreement, or obtain any present or anticipated material benefit arising from it.

- 19.3. **Multiple Phased Projects.** Pursuant to Government Code section 1097.6, Consultant's duties and services under this Agreement shall not include preparing or assisting City with any portion of City's preparation of a request for proposals, request for qualifications, or any other solicitation regarding a subsequent or additional contract with City. City shall at all times retain responsibility for public contracting, including with respect to any subsequent phase of this project. Consultant's participation in the planning, discussions, or drawing of project plans or specifications, if any, shall be limited to conceptual, preliminary, or initial plans or specifications. Consultant shall cooperate with City to ensure that all bidders for a subsequent contract on any subsequent phase of this project have access to the same information, including all conceptual, preliminary, or initial plans or specifications prepared by Consultant, if any, pursuant to this Agreement.
- 19.4. **Non-assignment.** Consultant shall not delegate, transfer, subcontract or assign its duties or rights hereunder, either in whole or in part, without City's prior written consent, and any attempt to do so shall be void and of no effect. City shall not be obligated or liable under this Agreement to any party other than Consultant.
- 19.5. **Binding on Successors.** This Agreement shall be binding on the successors and permitted assigns of the parties.
- 19.6. **No Third-Party Beneficiaries.** Except as expressly stated herein, there is no intended third-party beneficiary of any right or obligation assumed by the parties under this Agreement.
- 19.7. **Time of the Essence.** Time is of the essence for each and every provision of this Agreement.
- 19.8. **Non-Discrimination.** Consultant shall not discriminate against any employee or applicant for employment because of race, sex (including pregnancy, childbirth, or related medical condition), creed, national origin, color, disability as defined by law, disabled veteran status, Vietnam veteran status, religion, age (40 and above), medical condition (cancer-related), marital status, ancestry, or sexual orientation or any other unlawful basis. Employment actions to which this provision applies shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; or in terms, conditions or privileges of employment, and

selection for training. Consultant shall post this nondiscrimination clause in conspicuous places, available to employees and applicants for employment.

- 19.9. **Waiver.** No provision, covenant, or condition of this Agreement shall be deemed to have been waived by City or Consultant unless in writing signed by one authorized to bind the party asserted to have consented to the waiver. The waiver by City or Consultant of any breach of any provision, covenant, or condition of this Agreement shall not be deemed to be a waiver of any subsequent breach of the same or any other provision, covenant, or condition.
- 19.10. **Excused Failure to Perform.** Consultant shall not be liable for any failure to perform if Consultant presents acceptable evidence, in City's sole judgment, that such failure was due to causes beyond the control and without the fault or negligence of Consultant.
- 19.11. **Remedies Non-Exclusive.** Each right, power and remedy provided for herein or now or hereafter existing at law, in equity, by statute, or otherwise shall be cumulative and shall be in addition to every other right, power, or remedy provided for herein or now or hereafter existing at law, in equity, by statute, or otherwise. The exercise, the commencement of the exercise, or the forbearance from the exercise by either party of any one or more of such rights, powers or remedies shall not preclude the simultaneous or later exercise by such party of any or all such other rights, powers or remedies.
- 19.12. **Attorneys' Fees.** If legal action shall be necessary to enforce any term, covenant or condition contained in this Agreement, the prevailing party shall be entitled to an award of reasonable and actual attorneys' fees and costs expended in the action.
- 19.13. **Venue.** The venue for any litigation shall be Nevada County, California and Consultant hereby consents to jurisdiction there for purposes of resolving any dispute or enforcing any obligation arising under this Agreement.
- 19.14. **Counterparts; Electronic Signatures.** This Agreement may be signed in one or more counterparts, each of which shall be deemed an original, but all of which together shall be deemed one and the same instrument. The parties acknowledge and agree that this Agreement may be executed by electronic signature, which shall be considered as an original signature for all purposes. Without limitation, "electronic signature" shall include faxed or emailed versions of an original signature, electronically scanned and transmitted versions (e.g., via pdf) of an original signature, or a digital signature.

[Signature Page Follows]

TO EFFECTUATE THIS AGREEMENT, the parties have caused their duly authorized representatives to execute this Agreement on the dates set forth below.

[Two signatures are required to bind a corporation]

“City”
City of Grass Valley

“Consultant”
Wayward Journey

By: _____
Signature

By: _____
Signature

Tim Kiser

Printed: _____

City Manager

Title: _____

Date: _____

Date: _____

By: _____
Signature

Printed: _____

Title: _____

Date: _____

Attest:

By: _____
Taylor Whittingslow, City Clerk

Date: _____

Approved as to form:

By: _____
Michael G. Colantuono, City Attorney

Date: _____

EXHIBIT A
SCOPE OF SERVICES

City Responsibilities

- A. Janitorial - All janitorial cleaning will be done by City staff and City volunteers.
- B. Animal Husbandry - City is responsible for all of the animal husbandry at the Shelter which includes all of the feeding and cleaning appropriate to all animal species housed at the Shelter.
- C. C. Animal Intake - City is responsible for animal intake, including initial health assessment of all animals; Bordetella, DAPP, and general dewormer vaccinations for dogs, and; FVRCP and dewormer vaccinations for cats.
- D. Medical - City staff will administer medical protocols in consultation with a veterinarian to all animals within the Shelter, and will be responsible for the medical costs associated with intake and continuing care including all vaccinations, dewormer, and microchips for all cats and dogs, and spay or neuter for all animals. City staff will administer medical care as part of their normal Shelter animal husbandry tasks.
- E. Information Technology - City will be responsible for all repair and maintenance of information technology equipment and software used at the Shelter and in connection with Shelter activities, but shall not be responsible for repair, maintenance, or replacement of equipment used solely by Consultant. This includes phones, computers, and hardware associated with the operation of this equipment. Consultant shall not download any programs on equipment which is connected to the City's computer network without the approval of the City's IT Coordinator or their designee. In the event that Consultant downloads unapproved programs or fails to comply with the City's technology maintenance and replacement standards, the City may deny access to the City's computer network and may terminate any obligation under this paragraph.
- F. Facility Maintenance - City will provide repair and maintenance of the Shelter through City's Facilities Maintenance unit. This includes, but is not limited to, the structure (both interior and exterior), water systems, and HVAC systems.
- G. City Front Counter - City will staff the Animal Services front counter as appropriately determined during the open hours of the Shelter. City responsibilities will include but not be limited to: dog licensing, stray animal intake and return, owner relinquishment of animals, and inquiries from the public regarding Animal Services operations.
- H. Pet Point Data Management System - City will maintain the Pet Point Data Management System at the Shelter. Consultant will have limited access to the use of this system.
- I. Adoptions - City will be responsible for administering and processing all adoptions that occur out of the Shelter. Consultant may run promotions and specials to keep

adoptions at a constant flow. Consultant may advertise the animals available for adoption or foster in the Shelter. Advertisements and promotions may include posters, flyers, and electronic communications, among other avenues for publicity.

- J. Euthanasia - Except for animals that are irremediably suffering from a serious illness or severe injury per, or otherwise covered by, California Food and Agriculture Code section 17006, City is responsible for destroying animals that City and Consultant deem unadoptable after complying with the statutorily required minimum holding period. Except for animals that are irremediably suffering from a serious illness or severe injury per, or otherwise covered by, California Food and Agriculture Code section 17006, City will give Consultant at least two (2) weeks notice prior to the planned destruction of an animal in order to give Consultant and other animal rescue organizations an opportunity to discuss euthanasia with the City and/or request release of the animal to Consultant or another animal rescue organization pursuant to California Food and Agriculture Code section 31108(b). With Consultant's consent, City may advance the planned destruction of an animal prior to the fulfillment of the 2 week period.
- K. Animal Control Duties - City will be responsible for all animal control related services, procedures, and outcomes.
- L. Compliance with State Law - City Shelter staff will be responsible for being familiar with, complying with, and implementing state laws applicable to public animal shelters, including but not limited to California Food and Agriculture Code Division 14, relating to the regulation and licensing of dogs; Division 14.5, relating to the regulation of cats; and Division 14.8, relating to animal facilities and shelters.

Consultant Responsibilities

- A. Medical - Consultant may, at its discretion, identify animals for which Consultant will cover the costs of medical care by directly paying the medical provider. This may include medical care provided during intake, as continuing care, or by veterinary specialists (e.g., cardiologists, ophthalmologists, etc.), or any other type of veterinary care. Animals will be selected for medical coverage depending on various factors, including the animal's need and Consultant's budget. When Consultant selects an animal for which Consultant will cover medical costs, Consultant will notify Shelter staff in writing which animals Consultant has selected for medical cost coverage and which of the animal's costs Consultant will cover.
- B. Animal Foster Program - Consultant is responsible for all the needs, excluding food and medical care administered upon intake, of animals that Consultant places into a foster program outside of the Shelter. If the City or Consultant receives an animal that is too young, frail, or a nursing mother, or has any other ailment or issue that shelter living does not accommodate well, Consultant may find temporary foster care for that animal until it is ready to be housed in the Shelter.
- C. Humane Education Program - Consultant may provide humane education programs on and off the Shelter site, including but not limited to tours, field trips, summer camps,

seminars, and in-class presentations. Consultant must seek and receive City approval prior to holding any program at the Shelter site.

- D. Dog Training - Consultant may work directly with positive reinforcement dog trainers to provide structure and training for the dogs awaiting permanent homes. Consultant may also provide opportunities for training for dogs adopted through Consultant.
- E. Troubleshooting - Consultant may provide trouble-shooting services to anyone looking to relinquish an animal within and outside of the City's jurisdiction, with the intent of keeping the animals in their homes, rather than relinquishing them to the Shelter.
- F. Pet Pantry - Consultant may, at its sole expense, run a Pet Pantry Program, providing free pet food to community members who cannot otherwise afford to feed their animals. Consultant may work directly with the City to ensure proper food storage and distribution.
- G. Special Events - Consultant may host special events on an ongoing basis throughout each year. Consultant anticipates that most of these events will be at off-site locations and will not utilize Shelter space with the exception of storage. Consultant shall provide the City with advance written notice and request City approval prior to planning and execution of any event that will be held at the Shelter.
- H. Fundraising - Consultant will consistently work to raise funds for the organization. Fundraising may include but is not limited to mailings, special events, merchandise sales, donation requests, holiday appeals, etc.
- I. Volunteer Program - Consultant will hold responsibility for its volunteers on site and off site while on their volunteer shift. Volunteers have approval from the City to provide services for Shelter animals including but not limited to dog walking, cat socialization, and taking Shelter animals to events. Volunteers may also support the Shelter with administrative tasks at the front counter, transporting Shelter animals, and other services. Volunteers that will be in and around the shelter are to be approved by both Consultant and City.

**EXHIBIT B
FEE SCHEDULE**

DRAFT

CAMPAIGN CONTRIBUTION DISCLOSURE PROVISIONS

Cities are subject to the campaign disclosure provisions detailed in Government Code Section 84308.

Please carefully read the following information to determine if the provisions apply to you. If you determine that the provisions are applicable, the Campaign Disclosure Form must be completed and returned to the City with your application.

1. No City councilmember or commissioner shall accept, solicit, or direct a contribution of more than \$500 from any party,¹ financially interested participant,² or agent³ while a proceeding is pending or for 12 months subsequent to the date a final decision is rendered by the City. This prohibition commences when your application has been filed, or the proceeding is otherwise initiated.

2. A party to a City proceeding shall disclose on the record of the proceeding any contribution of more than \$500 made to any councilmember or commissioner by the party, or agent, during the preceding 12 months. No party to or participant in a City proceeding shall make a contribution of more than \$500 to a councilmember or commissioner during the proceeding and for 12 months after the City makes a final decision. No agent to a party or participant shall make a contribution in any amount to a councilmember or commissioner during the proceeding and for 12 months after the City makes a final decision.

3. Before rendering a decision on a City proceeding, any councilmember or commissioner who received a contribution of more than \$500 in the preceding 12 months from any party to a proceeding, or agent, shall disclose that fact on the record of the proceeding, and shall be disqualified from participating in the proceeding. However, if any councilmember or commissioner receives a contribution that otherwise would require disqualification, and returns the contribution within 30 days of: (a) making the decision, or (b) knowing about the contribution and the relevant proceeding, whichever comes last, that councilmember or commissioner may participate in the proceeding.

¹ "Party" is defined as any person who files an application for, or is the subject of, a proceeding.² "Participant" is defined as any person who actively supports or opposes a particular decision in a proceeding.

³ "Agent" is defined as a person who represents a party in connection with a proceeding for compensation who appears before or otherwise communicates with the City for the purpose of influencing the proceeding. If an individual acting as an agent also is acting as an employee or member of a law, architectural, engineering, or consulting firm, or a similar entity or corporation, both the individual and the entity or corporation are agents. When a closely held corporation is a party to a proceeding, the majority shareholder is subject to these provisions.

To determine whether you or your agent made a campaign contribution of more than \$500 to a councilmember or commissioner in the past 12 months, all contributions made by you or your agent in that time must be aggregated.

Names of current City councilmembers and commissioners are available on the City's website. If you have questions about Government Code Section 84308, FPPC regulations, or the Campaign Disclosure Form, please contact the City Clerk.

CAMPAIGN CONTRIBUTION DISCLOSURE FORM

(a) Document:

- License
- Lease
- Permit
- Franchise
- Other Contract
- Other Entitlement

Name and address of any party, participant, or agent who has contributed more than \$500 to any councilmember or commissioner in the preceding 12 months:

1. _____
2. _____
3. _____

(b) Date and amount of contribution:

- Date _____ Amount \$ _____
- Date _____ Amount \$ _____
- Date _____ Amount \$ _____

(c) Name of councilmember or commissioner to whom contribution was made:

1. _____
2. _____
3. _____

(d) I certify that the above information is provided to the best of my knowledge.

Printed Name _____

Signature _____

Date _____ Phone _____

To be completed by City:

Document No: _____

DRAFT



City of Grass Valley City Council Agenda Action Sheet

Title: Condon Park Road Maintenance Project - Authorization to Award Contract

CEQA: Categorically Exempt - Section 15301 "Existing Facilities"

Recommendation: That Council 1) award a contract for the Condon Park Road Maintenance Project to the lowest responsive bidder, subject to the bid protest period, 2) authorize the Mayor to execute the construction contract, subject to legal review, and 3) authorize the City Engineer to approve construction change orders for up to 10% of the contract amount.

Prepared by: Bjorn P. Jones, PE, City Engineer

Council Meeting Date: 4/8/2025

Date Prepared: 4/3/2025

Agenda: Administrative

Background Information: The Condon Park Road Maintenance Project involves asphalt concrete pavement resurfacing of existing roads and parking lots throughout Condon Park as well as the placement of a new pavement surfacing over the existing gravel parking lot near the disc golf area. The intention

Bids will be opened on the afternoon of the Council meeting, April 8th at 3:30 PM. In order to expedite project award, Staff is requesting authorization to award a contract to the lowest responsive bidder, subject to the bid protest period. Proposals will be evaluated for completeness and a bid summary will be compiled and provided to Council prior to the meeting.

Staff recommends that Council authorize award and execution of a construction contract for the Condon Park Road Maintenance Project to the lowest responsive bidder and authorize the City Engineer to approve construction change orders up to 10% of the contract amount.

Council Goals/Objectives: The Condon Park Road Maintenance Project executes portions of work tasks towards achieving/maintaining Strategic Plan Goal - Recreation and Parks and Transportation.

Fiscal Impact: The Condon Park Road Maintenance Project was budgeted at \$300,000 in the FY 24/25 CIP Budget with Measure E funds. Up to \$100,000 in additional Measure E funds are available from the Loma Rica Trail Improvements Project that will not be delivered this fiscal year in order to make up a shortfall, should bids come in higher than estimated.

Funds Available: Yes

Account #: 200-406-64140

Reviewed by: ____ City Manager



City of Grass Valley City Council Agenda Action Sheet

Title: Downtown Street Rehab Project - Authorization to Award Contract

CEQA: Categorically Exempt - Section 15301 “Existing Facilities”

Recommendation: That Council 1) award a contract for the Downtown Street Rehab Project to Hansen Bros Enterprises, 2) authorize the Mayor to execute the construction contract, subject to legal review, 3) authorize the City Engineer to approve construction change orders for up to 10% of the contract amount, 4) authorize the Finance Director to execute a budget amendment of \$400,000 in Water Funds to the project and 5) provide any further direction to Staff on final intersection and pedestrian safety controls.

Prepared by: Bjorn P. Jones, PE, City Engineer

Council Meeting Date: 04/08/2025

Date Prepared: 04/03/2025

Agenda: Administrative

Background Information: Over several meetings between August 2024 and January 2025, Council was offered the chance to provide input and direction on the upcoming street restoration project along the Main St and S Auburn St downtown corridors; the Downtown Street Rehabilitation Project. The project primarily involves pavement rehabilitation, sidewalk replacement and utility line replacements, along with pavement marking and other safety enhancements proposed for all the high traffic intersections.

The Engineering proposal to remove the traffic signal at the Main St and S Auburn intersection and revert to a four way stop control intersection was approved at the January 14, 2025 Council meeting. Engineering has also evaluated various pedestrian safety improvements including signage, flashing beacons, enhanced crosswalk markings, and increased lighting. Specifically, as designed in the project plans that were released for bidding, the improvements include the following treatments that Engineering would like to highlight to Council for any further direction:

- Stop control at both Main @ Mill and Main @ Auburn intersections would be identified with LED ringed stop signs similar to the existing signs at the Mill St intersection. The flashing signs operate 24/7 and are subtle, yet effective in getting drivers’ attention. No flashing beacons are currently proposed.
- Pedestrian awareness at all intersections would be stressed with MUTCD standard fluorescent yellow green pedestrian walking signs and arrow placards at the crossing locations. No rectangular rapid flashing beacons (RRFB) are currently proposed. The utility of these pedestrian activated flashing signs at stop controlled intersections is unproven and they are commonly used only at mid-block (uncontrolled) crossings. The higher pedestrian levels at these

downtown intersections leads to either the flashing beacons being activated repeatedly, with a tendency to be ignored by drivers, or conversely, not being activated by a number of pedestrians, such that their usefulness is irregular. Motorists will be stopping at the intersection, evaluating the environment before making a decision to proceed and the effectiveness of a sporadically activated flashing sign is diminished. Additionally, there were some concerns raised about added rapid flashing LED signs detracting from the ambiance in the downtown area. These signs could always be added in the future, however there is a cost consideration as well; recent projects have seen installation of a RRFB assembly exceed \$11,000 per unit.

- Crosswalk markings would use a two color, alternating longitudinal striped (“Continental” or “Zebra” style) resin coating to demarcate the pedestrian crossing areas. Engineering has found the continental style crosswalk to be the most effective in getting motorists’ attention of the pedestrian zones. However, the efficacy decreases over time as the asphalt (black) portion of crossing tends to fade or gray out, while the paint or thermoplastic (white) portion likewise gets worn down, such that the attention getting contrast between the two colors is diminished. Engineering has proposed a durable resin coating system, which is specified to be longer lasting than thermoplastic. By using an application of both white and red coatings, a vibrancy is created through the contrasting colors, which will be better maintained for many years. A sample of the proposed colors will be submitted for review and approval before final selection.
- Added streetlights at the Main @ Auburn intersection would increase area lighting at night for enhanced safety. New streetlights to match the antique style assemblies in place up and down Main St are proposed on all four corners of the intersection.

Bids were opened on April 3, 2025 and four bids were received. A bid summary is attached. Staff reviewed the low bid of \$2,415,093.00 submitted by Hansen Bros and determined the bid to be complete and responsive. Construction is expected to begin in Spring and be completed over the summer 2025. The majority of the more disruptive street and sidewalk work is expected to be performed at night to minimize daytime closures, although some inconveniences are inevitable on such a large scale project.

Staff requests that Council authorize award and execution of a contract for the Downtown Street Rehab Project to Hansen Bros Enterprises in the amount of \$2,415,093.00 and authorize the City Engineer to approve construction change orders for up to 10% of the contract amount. Authorization of a budget amendment of \$400,000 in Water Rate Funds to the project is also requested, as discussed in the Fiscal Impact Statement below.

Council Goals/Objectives: The street rehabilitation and associated improvements proposed execute portions of work tasks towards achieving/maintaining Strategic Plan Goals - Transportation, Water & Wastewater Systems & Underground Infrastructure

Fiscal Impact: The Downtown Street Rehabilitation Project is a combination of two street projects budgeting in the FY 24/25 CIP Budget with Measure E and RMRA funds; the S Auburn Street Renovation Project and the Main Street Sealing and Striping Project for a total of \$2,100,000. At the final stages of design, replacement of the City water

facilities along S Auburn St was added as a project component, with an engineer's estimated cost of approximately \$400,000. A budget amendment of \$400,000 in available Rate funds from the Water Line Replacement (Depot St, Cherry Ln) Project that will not be delivered this fiscal year, will fully fund the water improvements and the initial construction contract, plus approximately 3.5% in contingencies. Staff will evaluate added funding sources in the next budget cycle to finance construction change orders as necessary.

Funds Available: Yes

Account #: 300-406-63457

Reviewed by: City Manager

Attachments: Bid Summary

**DOWNTOWN STRET REHAB PROJECT
PROJECT No. 24-04
PLAN HOLDER'S LIST**

Date: April 3, 2025; 3:30 p.m.

Engineer's Estimate: \$2,500,000

BIDDER	DATE/TIME REC'VD	AMOUNT
S.T. Rhoades Construction Inc	4/3/25, 1:53pm	\$2,862,310.00
Hansen Bros Enterprises	4/3/25, 3:12pm	\$2,415,093.00 *
McGuire and Hester	4/3/25, 3:18pm	\$3,417,173.00
Consolidated Engineering	4/3/25, 3:18pm	\$3,459,543.00

*** Apparent Low Bidder**