

AN ORDINANCE 2010-09-30-0824

**AUTHORIZING THE CITY TO UTILIZE COOPERATIVE CONTRACTS WITH FREIGHTLINER OF SAN ANTONIO, LTD., SIDDON'S FIRE APPARATUS AND PHILPOTT MOTORS TO PROVIDE THE FIRE DEPARTMENT WITH 6 WILDLAND FIRE ENGINE BRUSH TRUCKS FOR A TOTAL COST OF \$878,093.42, FUNDED THROUGH THE FIRE DEPARTMENT'S FY 2010 BUDGET AND THE CITY'S EQUIPMENT RENEWAL & REPLACEMENT FUND.**

\* \* \* \* \*

**WHEREAS**, offers were submitted by Freightliner of San Antonio, LTD., Siddons Fire Apparatus and Philpott Motors, through the Texas Local Government Purchasing Cooperative (a.k.a. the "Buyboard"), to provide the City with six wildland fire engine brush trucks for a total cost of \$878,093.42; and

**WHEREAS**, this purchase meets the requirements under the terms of the Texas Local Government Purchasing Cooperative agreement adopted by the City of San Antonio by Ordinance No. 97097 on January 30, 2003; **NOW THEREFORE:**

**BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF SAN ANTONIO:**

**SECTION 1.** The offers from Freightliner of San Antonio, LTD., Siddons Fire Apparatus and Philpott Motors to provide the City with six wildland fire engine brush trucks for a total cost of \$878,093.42 are hereby accepted, subject to and contingent upon the deposit of all required bonds, performance deposits, insurance certificates and endorsements. The bid tabulation sheet and contracts are attached hereto and incorporated herein for all purposes as **Exhibit I**.

**SECTION 2.** Funding in the amount of \$878,093.42 for this ordinance is available as part of the Fiscal Year 2010 Budget per the table below.

Amount	Cost Center	General Ledger	Fund
\$761,680.28	1503200001	5501050	72001000
\$116,413.14	2004010001	5709090	11001000
Total Amount: \$878,093.42			

**SECTION 3.** Payment not to exceed the budgeted amount is authorized to the appropriate parties in accordance with their contracts and should be encumbered with a purchase order.

**SECTION 4.** The financial allocations in this Ordinance are subject to approval by the Chief

LOC; cah  
09/30/10  
Item No. 12

Financial Officer, City of San Antonio. The Chief Financial Officer may, subject to concurrence by the City Manager or the City Manager's designee, correct allocations to specific Cost Centers and Fund Numbers as necessary to carry out the purpose of this Ordinance.

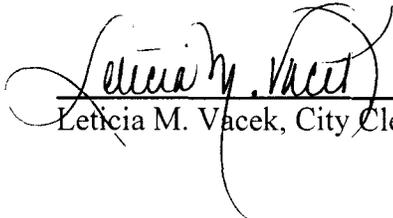
**SECTION 5.** This ordinance shall be effective immediately upon passage by eight affirmative votes; otherwise it shall be effective on the tenth day after passage hereof.

**PASSED and APPROVED** this 30<sup>th</sup> day of September, 2010.



**M A Y O R**  
Julián Castro

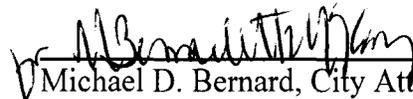
**ATTEST:**



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Leticia M. Vacek, City Clerk

**APPROVED AS TO FORM:**



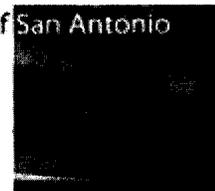
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Michael D. Bernard, City Attorney



Request for  
**COUNCIL  
ACTION**

City of San Antonio



## Agenda Voting Results - 12

<b>Name:</b>	6, 8, 9, 10, 11, 12, 13, 14, 15A, 15B, 20, 21, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 36, 37, 38, 39						
<b>Date:</b>	09/30/2010						
<b>Time:</b>	10:29:12 AM						
<b>Vote Type:</b>	Motion to Approve						
<b>Description:</b>	An Ordinance authorizing the City to utilize cooperative contracts with Freightliner of San Antonio, Ltd., Siddons Fire Apparatus and Philpott Motors to provide the Fire Department with 6 Wildland fire engine brush trucks for a total cost of \$878,093.42, funded through the Fire Department's FY 2010 Budget and the City's Equipment Renewal & Replacement Fund. [Ben Gorzell, Chief Financial Officer; Janie Cantu, Director, Purchasing & General Services]						
<b>Result:</b>	Passed						
<b>Voter</b>	<b>Group</b>	<b>Not Present</b>	<b>Yea</b>	<b>Nay</b>	<b>Abstain</b>	<b>Motion</b>	<b>Second</b>
Julián Castro	Mayor		x				
Mary Alice P. Cisneros	District 1		x				x
Ivy R. Taylor	District 2		x				
Jennifer V. Ramos	District 3		x			x	
Philip A. Cortez	District 4		x				
David Medina Jr.	District 5		x				
Ray Lopez	District 6		x				
Justin Rodriguez	District 7	x					
W. Reed Williams	District 8		x				
Elisa Chan	District 9		x				
John G. Clamp	District 10		x				

# Exhibit I

## City of San Antonio Bid Tabulation

Opened: August 24, 2010 For: Brush Trucks  10-109		DDG	<b>BuyBoard</b>
		Freightliner of San Antonio, Ltd. 8700 IH 10 East Converse, TX 78109 210-277-4373	
Item	Description	QTY	
1	Wildland Fire Engine/Brush Trucks - NWCA Type III		
A	Cab & Chassis	3	
	Price Each		\$103,932.00
	Price Total		\$311,796.00
	Make - Cab & Chassis		2011 Freightliner M2-106V AWD
	Model - Engine		Cummins ISC 300HP
B	Body	3	
	Price Each		\$73,904.00
	Price Total		\$221,712.00
	Make - Body		Siddons Skeeter Magnum Wildland
2	Buyboard Fee	1	
	Price Each		\$400.00
	Price Total		\$400.00
	Delivery		180-240 days
	Payment Terms		Net 30
	Total		\$533,908.00
<b>Total Award</b>			<b>\$533,908.00</b>

City of San Antonio Bid Tabulation

Opened: August 24, 2010			<b>BuyBoard</b>
For: Brush Trucks			Philpott Motors
10-109			1400 N Highway 69
DDG			Nederland, TX 77627
			409-727-3564
Item	Description	QTY	
3	Wildland Fire Engine/Brush Truck - NWCA Type V- Two Door		
A	Cab & Chassis	2	
	Price Each		\$38,155.14
	Price Total		\$76,310.28
	Make - Cab & Chassis		2011 Ford F-550 4X4
	Model - Engine		Ford 6.7L V8 Diesel 400 HP
B	Body	2	
	Price Each		\$75,531.00
	Price Total		\$151,062.00
	Make - Body		Siddons Fire Apparatus
4	Wildland Fire Engine/Brush Truck - NWCA Type V - Four Door		
A	Cab & Chassis	1	
	Price Each		\$40,882.14
	Price Total		\$40,882.14
	Make Cab & Chassis		2011 Ford F-550 4X4 Crew Cab
	Model - Engine		Ford 6.7L V8 Diesel 400HP
B	Body	1	
	Price Each		\$75,531.00
	Price Total		\$75,531.00
	Make/Model - Body		Siddons Fire Apparatus
5	Buyboard Fee	1	
	Price Each		\$400.00
	Price Total		\$400.00
	Delivery		120 days
	Payment Terms		Net 30
	Total		\$344,185.42
	<b>Total Award</b>		<b>\$344,185.42</b>

**CITY OF SAN ANTONIO PURCHASING & GENERAL SERVICES DEPT.**

Issued By: DDG CITY CONTRACT NO. 10-109  
COOPERATIVE CONTRACT NO.: 281-07 and 323-09  
PROCURING ENTITY/COOPERATIVE: Buyboard

Date Issued: August 31, 2010

Page 1 of 42

**TERMS & CONDITIONS FOR CONTRACT FOR  
WILDLAND FIRE ENGINE/BRUSH TRUCKS**

**PLEASE REVIEW THE TERMS AND CONDITIONS FOR THIS REQUEST AND  
PROVIDE YOUR OFFER NO LATER THAN 12:00 PM, September 2, 2010**

Contract Documents: The terms and conditions for performance and payment of compensation for this contract are set forth in the following contract documents, true and correct copies of which are attached hereto and fully incorporated herein for all purposes:

- a. This Terms and Conditions Document;
- b. Any Purchase Orders Issued hereunder by the City of San Antonio ("City"); and
- c. Exhibit I – All applicable terms and conditions of Contract # 281-07 and 323-09, procured by Texas Local Government Purchasing Cooperative and made available to local governmental entities through the Buyboard.

Should a conflict arise among the provisions of the contract documents, this Terms and Conditions Document and any Purchase Order issued hereunder shall govern over Exhibit I, unless otherwise specifically provided herein.

This Terms & Conditions Document includes the following: General Terms and Conditions, Product Specifications and Description of Services, Price Schedule, any Attachments identified herein

The City's Purchasing and General Services Department is willing to assist any vendor(s) in the interpretation of this Terms and Conditions Document. Assistance may be received by visiting the Purchasing Office at 111 Soledad, 11th Floor, San Antonio, Texas 78205, or by calling (210) 207-7260.

The undersigned, by his/her signature, represents that he/she is authorized to bind the Vendor to fully comply with the contract for the amount(s) shown on the accompanying Price Schedule. A signature below indicates that the Vendor has read the entire document, which is incorporated herein, and agreed to the terms therein.

**Cab and Chassis Vendor: Philpott Motors**

Signer's Name: A. Glen Angelle Firm Name: Philpott Motors  
 (Please Print or Type)  
 Address: 1400 N. Huey Ln  
 Signature of Person Authorized to Sign Offer: [Handwritten Signature] City, State, Zip Code: McDeraland TX 77627  
 Email Address: glen.angelle@philpottmotors.com Telephone No.: 409-727-3564  
 Fax No.: 409-724-0886

**Body Vendor: Siddous Fire Apparatus**

**FOR CITY USE ONLY**

**AWARD**

Items Accepted:	Ordinance No:	Date:	Amount:
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Approved: \_\_\_\_\_

CITY OF SAN ANTONIO

CITY CONTRACT NO.: 10-109

Page 2 of 42

Signer's Name: CORBIN STRONG Firm Name: SIDDONS FIRE APPARATUS  
(Please Print or Type)  
Address: P.O. Box 2461  
Signature of Person Authorized to Sign Offer: *Corbin Strong* City, State, Zip Code: HOUSTON TX 77252  
Email Address: CORBIN@SIDDONSFIRE.COM Telephone No.: 866-334-0737  
Fax No.: 281-219-2560

Please complete the following:

Prompt Payment Discount:     %      days. (If no discount is offered, Net 30 will apply.)

Please check the following blanks which apply to your company:

Ownership of firm (51% or more):

Non-minority  Hispanic  African-American  Other Minority (specify) \_\_\_\_\_  
 Female Owned  Handicapped Owned  Small Business (less than \$1 million annual receipts or 100 employees)

Indicate Status:  Partnership  Corporation  Sole Proprietorship  Other (specify) \_\_\_\_\_

Tax Identification Number: 76-0572301

## I. GENERAL TERMS AND CONDITIONS

1. The terms “bidder”, “contractor”, and “vendor” all mean the party providing goods or services to the City pursuant to this contract.
2. **Rejection of Disclaimers of Warranties & Limitations of Liability.** Any term or condition in Exhibit I, or any document furnished by Vendor, disclaiming the implied warranty of merchantability or of fitness for a particular purpose, or attempting to limit Vendor’s liability shall be of no force or effect, and shall be stricken from the contract documents as if never contained therein.
3. Acceptance of Offer. By signing and submitting this document, Vendor is making an offer to City. A written award of acceptance (manifested by a City Ordinance) and appropriation or purchase order mailed or otherwise furnished to the Vendor results in a binding contract without further action by either party.
4. Vendors shall make all investigations necessary to thoroughly inform themselves regarding plant and facilities for delivery of material and equipment as required by the contract documents. No plea of ignorance by the vendor of conditions that exist or that may hereafter exist as a result of failure or omission on the part of the vendor to make the necessary examinations and investigations, or failure to fulfill in every detail the requirements of the contract documents, will be accepted as a basis for varying the requirements of the City or the compensation to the vendor.
5. Taxes. Vendor shall not include federal taxes nor State of Texas limited sales excise and use taxes in prices, since the City of San Antonio is exempt from payment of such taxes. An exemption certificate will be signed by City where applicable upon request by Vendor.
6. Point of Destination. All goods, materials and equipment shall be delivered FOB Destination, City of San Antonio’s designated facility, or to the “ship to” address indicated on the purchase order, inside delivery. Regardless of shipping terms used, title and risk of loss shall pass to City only upon receipt at City’s “ship to” address.
7. Delivery Times. Proposed delivery time must be shown and shall include weekends and holidays, unless specified otherwise herein.
8. Failure to Meet Delivery Schedule. When delivery is not met as provided for in the contract, the Purchasing and General Services Department reserves the right to make the purchase on the open market, with any cost in excess of the contract price paid by the vendor, in addition to any other damages, direct, indirect, consequential, or incidental incurred by the City as a result thereof.
9. Acceptance By City. The City shall have a reasonable time (but not less than 30 days) after receipt to inspect the goods and services tendered by Vendor. The City at its option may reject all or any portion of such goods or services which do not, in City’s sole discretion, comply in every respect with all terms and conditions of the contract. The City may elect to reject the entire goods and services tendered even if only a portion thereof is nonconforming. If the City elects to accept nonconforming goods and services, the City, in addition to its other remedies, shall be entitled to deduct a reasonable amount from the price thereof to compensate the City for the nonconformity. Any acceptance by the City, even if non-conditional, shall not be deemed a waiver or settlement of any defect in such goods and services.
10. Warranty. Unless a specific warranty is provided elsewhere in these contract documents, the supplies or services furnished under this contract shall be covered by the most favorable commercial warranties given to any customer for same or similar supplies or services.
11. Change Orders. In order to comply with Texas law governing purchases made by municipalities, the follow rules shall govern all change orders made under this contract.

- (a) Any change orders that become necessary during the term of this contract as a result of changes in plans, specifications, quantity of work to be performed, materials, equipment or supplies to be furnished may be approved by the Director of Purchasing and General Services Department ("Purchasing Director"), or her designee, provided that such change orders:
- (1) are made in writing, signed by the Purchasing Director or her designee;
  - (2) do not involve an increase or decrease in contract price of more than \$25,000; and
  - (3) sufficient funds have already been allocated by City or are available to the Purchasing Director to cover any increase in contract price.
- (b) Any other change will require approval of the City Council, City of San Antonio.
- (c) Changes that do not involve an increase in contract price may, however, be made by the Purchasing Director.

## 12. Contract Termination

### TERMINATION-BREACH:

- (a) Should Vendor fail to fulfill in a timely and proper manner, as determined solely by the Director of Purchasing and General Services, its obligations under this contract, or violate any of the material terms of this contract, the City shall have the right to immediately terminate the contract. Notice of termination shall be provided in writing to the contractor, effective upon the date set forth in the notice. Such termination shall not relieve the vendor of any liability to the City for damages sustained by virtue of any breach by the vendor.

### TERMINATION-NOTICE:

- (b) The City may cancel this contract for convenience upon ten days prior written notice.

### TERMINATION-FUNDING:

- (c) City retains the right to terminate this contract at the expiration of each of City's budget periods. This contract is conditioned on a best efforts attempt by City to obtain and appropriate funds for payment of any debt due by City herein.

## 13. INDEMNIFICATION

**VENDOR covenants and agrees to FULLY INDEMNIFY, DEFEND and HOLD HARMLESS, the CITY and the elected officials, employees, officers, directors, volunteers and representatives of the CITY, individually and collectively, from and against any and all costs, claims, liens, damages, losses, expenses, fees, fines, penalties, proceedings, actions, demands, causes of action, liability and suits of any kind and nature, including but not limited to, personal or bodily injury, death and property damage, made upon the CITY directly or indirectly arising out of, resulting from or related to VENDOR'S activities under this Agreement, including any acts or omissions of VENDOR, any agent, officer, director, representative, employee, consultant or subcontractor of VENDOR, and their respective officers, agents employees, directors and representatives while in the exercise of the rights or performance of the duties under this Agreement. The indemnity provided for in this paragraph shall not apply to any liability resulting from the negligence of CITY, it s officers or employees, in instances where such negligence causes personal injury, death, or property damage. IN THE EVENT VENDOR AND CITY ARE FOUND JOINTLY LIABLE BY A COURT OF COMPETENT JURISDICTION, LIABILITY SHALL BE APPORTIONED COMPARATIVELY IN ACCORDANCE WITH THE LAWS FOR THE STATE OF TEXAS, WITHOUT, HOWEVER, WAIVING ANY GOVERNMENTAL IMMUNITY AVAILABLE TO THE CITY UNDER TEXAS LAW AND WITHOUT WAIVING ANY DEFENSES OF THE PARTIES UNDER TEXAS LAW.**

The provisions of this INDEMNITY are solely for the benefit of the parties hereto and not intended to create or grant any rights, contractual or otherwise, to any other person or entity. VENDOR shall advise the CITY in writing within 24 hours of any claim or demand against the CITY or VENDOR known to VENDOR related to or arising out of VENDOR's activities under this AGREEMENT and shall see to the investigation and defense of such claim or demand at VENDOR's cost. The CITY shall have the right, at its option and at its own expense, to participate in such defense without relieving VENDOR of any of its obligations under this paragraph.

14. Assignment and Subcontracting

- (a) Vendor shall not sell, assign, pledge, transfer or convey any interest in this contract, nor delegate the performance of any duties hereunder, by transfer, by subcontracting or any other means, without the consent of the Director of City's Purchasing and General Services Department. As a condition of such consent, if such consent is granted, Vendor shall remain liable for completion of the services outlined in this contract in the event of default by the successor vendor, assignee, transferee or subcontractor.
- (b) Any work or services approved for subcontracting hereunder shall be subcontracted only by written contract and, unless specific waiver is granted in writing by the City, shall be subject by its terms to each and every provision of this Contract. Compliance by subcontractors with this contract shall be the responsibility of Vendor. City shall in no event be obligated to any third party, including any subcontractor of Vendor, for performance of services or payment of fees.
- (c) Any attempt to transfer, pledge or otherwise assign this contract without said written approval, shall be void ab initio, and shall confer no rights upon any third person. Should Vendor assign, transfer, convey, delegate, or otherwise dispose of any part of all or any part of its right, title or interest in this contract, City may, at its option, cancel this contract and all rights, titles and interest of Vendor shall thereupon cease and terminate, notwithstanding any other remedy available to City. The violation of this provision by Vendor shall in no event release Vendor from any obligation under the terms of this contract, nor shall it relieve or release Vendor from the payment of any damages to City, which City sustains as a result of such violation.

15. Independent Contractor. Vendor covenants and agrees that it is an independent contractor and not an officer, agent, servant or employee of City. City shall not be liable for any claims which may be asserted by any third party occurring in connection with the services to be performed by the vendor under this contract and that the vendor has no authority to bind the City.

16. Patents/Copyrights. The Vendor agrees to indemnify and hold the City harmless from any claim involving patent infringement or copyrights on goods supplied.

17. Public Information Act. Vendor is advised that all City contracts are subject to all legal requirements provided for in the City Charter and/or applicable City Ordinances, state and federal statutes. All contracts are subject to the Public Information Act, Texas Government Code Chapter 552; therefore Vendor must clearly indicate any portion of the contract documents that Vendor claims is not subject to public inspection under the Public Information Act.

18. Conflict of Interest. No officer or employee of the City shall have a financial interest, direct or indirect, in any contract with the City, or shall benefit financially, directly or indirectly, in the sale to the City of any materials, supplies or services, except on behalf of the City as an officer or employee. This prohibition extends to the City Public Service Board, San Antonio Water System, and all City boards and commissions other than those which are purely advisory. In this instance a City employee is defined as any employee of the City who is required to file a financial involvement report pursuant to the City's ethics ordinance.

19. Severability. If any clause or provision of this contract is held invalid, illegal or unenforceable under present or future federal, state or local laws, including but not limited to the City Charter, City Code, or ordinances of the City of San Antonio, Texas, then and in that event it is the intention of the parties hereto that such invalidity, illegality or unenforceability shall not affect any other clause or provision hereof and that the remainder of this contract shall be

construed as if such invalid, illegal or unenforceable clause or provision was never contained herein; it is also the intention of the parties hereto that in lieu of each clause or provision of this contract that is invalid, illegal, or unenforceable, there be added as a part of the contract a clause or provision as similar in terms to such invalid, illegal or unenforceable clause or provision as may be possible, legal, valid and enforceable.

20. Nonwaiver of Performance. Unless otherwise specifically provided for in this contract, a waiver by either Party of a breach of any of the terms, conditions, covenants or guarantees of this contract shall not be construed or held to be a waiver of any succeeding or preceding breach of the same or any other term, condition, covenant or guarantee herein contained. Further, any failure of either Party to insist in any one or more cases upon the strict performance of any of the covenants of this contract, or to exercise any option herein contained, shall in no event be construed as a waiver or relinquishment for the future of such covenant or option.

21. Non-discrimination Policy. It is the City's policy that Small and/or Minority Business Enterprises shall have the maximum practicable opportunity to participate in the performance of public contracts. Vendor agrees that if this offer is accepted, he/she will not engage in employment practices which have the effect of discriminating against employees or prospective employees because of race, color, religion, national origin, sex, age, handicap or political belief or affiliation.

22. Compliance with Law. Vendor shall provide and perform all services required under this contract in compliance with all applicable federal, state and local laws, rules and regulations.

23. Venue. **Venue of any court action brought directly or indirectly by reason of this contract shall be in Bexar County, Texas. This contract is made and is to be performed in Bexar County, Texas, and is governed by the laws of the State of Texas.**

24. Entire Agreement. This contract, together with its authorizing ordinance and its attachments, purchase orders, and exhibits, if any, constitute the final and entire agreement between the parties hereto and contain all of the terms and conditions agreed upon. No other agreements, oral or otherwise, regarding the subject matter of this contract shall be deemed to exist or to bind the parties hereto, unless same be in writing, dated subsequent to the date hereto, and duly executed by the parties, in accordance with the Change Order provision herein.

25. Invoicing and Payment.

- (a) Address for Invoices. All invoices must be sent to: City of San Antonio, Attn: Accounts Payable, P.O. Box 839976, San Antonio, Texas 78283-3976.
- (b) Information Required On Invoice.  
All invoices must be in a form and content approved by the City. City may require modification of invoices if necessary in order to satisfy City that all billing is proper and pursuant to the terms of the contract. Invoices are required to show each City Purchase Order Number. Invoices must be legible. Items billed on invoices must be specific as to applicable stock, manufacturer, catalog or part number (if any). All invoices must show unit prices for each item being billed, the quantity of items being billed and the total for each item, as well as the total for all items on the invoice. If prices are based on list prices basis, then the list prices, the percentage discount or percentage surcharge, net unit prices, extensions and net total prices must be shown. Prompt payment discounts offered shall be shown separately on the invoice.
- (c) Payment by City. City shall have not less than 30 days to pay for goods or services. Time for payment, including payment under discount terms, will be computed from the later of: (1) the date the City receives conforming goods under the contract; (2) the date performance of the service under the contract is completed; or (3) the date the City receives a correct and valid invoice for the goods or services. Payment is deemed to be made on the date of mailing of the check. Payment is made in US dollars only.

This provision shall not apply where there is a bona fide dispute between the City and Vendor about the goods delivered or the service performed that causes the payment to be late, or where the invoice is not mailed to the address provided herein.

The payment amount due on invoices may not be manually altered by City personnel. Once disputed items are reconciled, Vendor must submit a corrected invoice, or a credit memorandum for the disputed amount, or the item must be issued by the vendor. City will not make partial payments on an invoice where there is a dispute.

- (d) **NECESSITY OF TIMELY INVOICE / WAIVER OF PAYMENT.** NOTWITHSTANDING THE FORGOING, THE CITY CANNOT PAY FOR ANY GOODS OR SERVICES WITHOUT AN INVOICE. VENDOR MUST INVOICE CITY NO LATER THAN 90 CALENDAR DAYS FROM THE DATE GOODS ARE DELIVERED OR SERVICES RENDERED. FAILURE TO SUBMIT AN INVOICE WITHIN SAID 90 DAY SHALL NEGATE ANY LIABILITY ON THE PART OF CITY AND CONSTITUTE A **WAIVER** BY VENDOR OF ANY AND ALL RIGHT OR CLAIMS TO COLLECT MONEYS THAT VENDOR MAY RIGHTFULLY BE OTHERWISE ENTITLED TO FOR GOODS OR SERVICES PERFORMED.
- (e) The total price for all goods and/or services is shown on the Price Schedule. No additional fees or expenses of Vendor shall be charged by Vendor nor be payable by City. The parties hereby agree that all compensable expenses of Vendor are shown on the Price Schedule. If there is a discrepancy on the Price Schedule between the unit price for an item, and the extended price, the unit price shall govern.
- (f) **Tax Exemption.** The City of San Antonio is exempt from payment of federal taxes, and State of Texas limited sales excise and use taxes. Bidders must not include such taxes in bid prices. An exemption certificate will be signed by City where applicable upon request by bidder after contract award.
- (g) **Prompt Payment Discount.** Provided Bidder meets the requirements stated herein, City shall take Bidder's offered prompt payment discount into consideration in determining who the low bidder is. The evaluation will not be based on the discount percentage alone, but rather the net price as determined by applying the discount to the bid price, either per line item or total bid amount. However, the City reserves the right to reject a discount if the percentage is too low to be of value to the City, all things considered. The City may also reject a discount if the percentage is so high as to create an overly large disparity between the price City would pay if it is able to take advantage of the discount and the price City would pay if it were unable to pay within the discount period. City may always reject the discount and pay within the 30 day period, at City's sole option.

The City will not consider discounts that provide fewer than 10 days to pay in order to receive the discount.

For example, payment terms of 2% 5, Net 30 will NOT be considered in bid evaluations or in the payment of invoices. However, payment terms of 2% 10, Net 30 will result in a two percent reduction in the bid price during bid evaluation, and the City will take the 2% discount if the invoice is paid within the 10 day time period.

## II. PRODUCT SPECIFICATIONS & DESCRIPTION OF SERVICES

1. **Period of Contract.** This contract shall begin upon award by the San Antonio City Council by passage of an ordinance therefore, and terminate upon completion of all services described herein. Philpott Motors ("Philpott") shall deliver turnkey units to City no later than 180 calendar days after receipt of City's Purchase Order, unless extension is granted in writing by the City's Director of Purchasing and General Services, or her designee. Siddons Fire Apparatus, Inc. ("Siddons") shall complete its installation of body equipment and conversion no later than 60 calendar days after receipt of the Cab & Chassis from Philpott, unless extension is granted in writing by the City's Director of Purchasing and General Services, or her designee.
2. **General Description of Scope & Services.**
  - (a) **Background:** The City of San Antonio is soliciting offers for three (3) Cab & Chassis from Philpott, in accordance with the specifications listed herein. These vehicles shall be converted by Siddons, who shall add the three (3) bodies in accordance with the specifications listed herein.
  - (b) **Turnkey Delivery.** The City desires a turnkey delivery for these Wildland Engine Fire/Brush Trucks (the "Trucks" or "Units" or "Vehicles". However, since the cab and chassis and body are sold by different vendors pursuant to individual Buyboard contracts, the City requires the two vendors to work together to ensure the successful delivery of the final, turnkey Unit(s). By submitting an offer pursuant to this contract, each Vendor is accepting these terms and conditions, acknowledging interdependence with the other vendor, and agreeing that payment shall only be made once the final Unit is delivered to and accepted by the City. City shall have no responsibility to pay or perform until such time as a turnkey Unit is accepted by City.
  - (c) **Nature of Contract Document.** Due to the unique nature of this agreement, City is presenting this contract to both vendors for signature. It is understood by the parties that while many terms and conditions contained herein apply to both parties, some will, by their nature, be applicable to only one party. A party should disregard a provision that is inapplicable to that party. Should there be any doubt as to the applicability of a provision, same shall be resolved by City.
  - (d) **Responsibility of Vendors.** Philpott shall be responsible for delivery of the completed trucks, with the bodies installed and operational. Philpott shall be responsible for handling all title documents and invoicing and payment to Siddons. Philpott shall be responsible for resolving any issues regarding the cab and chassis and body prior to final delivery. Philpott shall be responsible for delivery of the cab & chassis to Siddons for installation of the body by Siddons. Philpott shall be responsible for the completion of pre-delivery inspections.
  - (e) **Representations from the Body Vendor.** Body Vendor hereby represents:
    - 1) that it takes full responsibility for ensuring problem free installation of equipment and conversion of the cab and chassis and body; and
    - 2) that it shall coordinate and jointly take responsibility for any issues with conversion and installation of equipment prior to delivering the completed trucks to the City of San Antonio;
  - (f) **Representations from both vendors:**
    - 1) warranty information: warranties will be serviced by the respective awarded vendor; and
    - 2) Vendor will perform training at a time mutually agreed upon by the City and Vendor pursuant to the section of this document entitled "Training".
  - (g) **Damages for Delay:** The Parties agree that the actual damages that might be sustained by City by reason of the breach by Vendor of its covenant to make delivery within the timelines specified herein are uncertain and

would be difficult of ascertainment, and that the sum of .25% of the item's purchase price (as set forth for the breaching vendor on the Price Schedule) per day for each day delivery is late would be a reasonable compensation for such breach. Vendor hereby promises to pay, and City hereby agrees to accept, such sum as liquidated damages, and not as a penalty, in the event of such breach. Furthermore, both Parties agree that City may withhold said liquidated damages from any payments due to the vendor causing the breach hereunder.

- (h) **Payment:** City will issue a Purchase Order for the full contract price for turnkey Units to Philpott Motors. Philpott Motors is responsible for invoicing City in full for all payments due for the turn key Trucks, including charges incurred for work performed by Siddons. Payment for the turnkey equipment will be made in full to Philpott. Philpott shall pay Siddons for Siddons' portion of the turnkey Vehicle. City shall have no obligation to pay Siddons directly. Siddons agrees to look solely to Philpott for payment.

3. **Additional Specifications.**

A. The following general conditions will apply to all items within this bid unless specifically excluded within any item. Equipment shall be manufacturer's latest design, standard production model and shall have been manufactured within the last twelve (12) months. All components shall be installed new, unused, and shall be manufacturer's standard equipment unless otherwise specified or replaced herein. Equipment is to be inspected, serviced, and adjusted in accordance with manufacturer's recommended pre-delivery checklist, and ready for operation upon delivery. Manufacturer's Statement of Origin (MSO) showing manufacture within the last 12 calendar months, and completed pre-delivery checklists for chassis and body will be required at delivery. Equipment offered under the below listed specifications will be considered unacceptable if, for any reason, the equipment's, or major component's, long term availability on the U.S. market, or in the local area, is in doubt.

B. Warranty and Parts – Dealer and manufacturer must provide the maximum standard manufacture's warranty on all components parts and service included. All components, parts, and service are required to provide as a minimum **one year unlimited mileage/hour warranty**. All warranty times to start the date the vehicle is placed in service, not on the delivery date. The dealer will be notified by letter of the in-service date of each vehicle by serial number. Warranty will be fully explained by attaching separate, authenticated correspondence or entering such information in the remarks section of this bid. Warranty, reliability, and replacement captive parts costs and availability shall be a consideration in award of this bid. Bidders will certify that all repairs needed before and after the warranty period will be available from and by a factory-authorized dealer identified below (NO EXCEPTIONS) and within a ten (10) mile radius of Bexar county line. All warranty repairs will be completed within three (3) days from the date equipment is delivered to the vendor unless otherwise approved by the appropriate City of San Antonio maintenance superintendent.

LOCAL WARRANTY DEALER NAME: CAB & CHASSIS: \_\_\_\_\_

ADDRESS OF SERVICE CENTER: \_\_\_\_\_

C. Equipment Manuals – Successful bidder to furnish one set of operator manuals covering all major components of the vehicle (cab, chassis, bodies, hydraulic loaders) for each unit delivered. Successful bidder shall also provide five (5) complete sets of operator and shop repair manuals or CD/DVDs for each item bid, to include all major components, or prepaid 8-year subscription to manufacturer's maintenance/parts web site at no cost to the City.

D. Delivery – All deliveries are to be made inside the City limits of San Antonio. Vendor must deliver equipment to Brooks City Base, 8220 Lindbergh Landing, Building 1106, San Antonio, TX 78235. Delivery to a non-specified location will result in non-acceptance of the equipment by the City. All deliveries must be pre-arranged with a minimum 24-hour notification, NO EXCEPTIONS. The Manufacturer's Statement of Origin (MSO) and an invoice

are required upon delivery of each unit and before payment can be processed. Vehicles with more than 1000 miles accumulated on the odometer will not be accepted. All vehicles are required to have a full tank of fuel. Vehicles to be delivered with current State Inspection Decal.

E. All accessories and equipment will be OEM. The manufacturer will rate all equipment provided as low emission.

F. Unit to be equipped at the factory with air conditioning, full headliner, fresh air heater and defroster units, minimum AM/FM OEM radio. **All lights on cab and chassis and / or bodies are to be of light emitting diode (L.E.D.) type, except front turn signals.**

G. Air Conditioning – Air conditioning with integral heater and defroster units supplied under this specification to be OEM installed and designed for use with R-134A refrigerant. System must be capable of maintaining a temperature inside the operator cab of 70° F or less with an ambient temperature of not less than 95° F with a relative humidity of not less than 90%. As a minimum, system must have a radiator-mounted condenser, 3-speed fan and variable thermostat. If radiator mounted condenser is not practical, remote mount must be approved by the Fleet Maintenance and Operations Manager before installation. Roof mounted units not acceptable. All air conditioner components to be compatible and recommended for end item.

H. Under this bid the left and right side is determined by sitting in the operator seat.

I. Unless otherwise specified under individual items, vehicles provided will have a minimum of a driver’s seat and one passenger seat.

J. For questions pertaining to technical specifications or questions regarding bidding procedures contact Dena Guevara at (210) 207-4046.

K. Under this bid, the City reserves the right to reject any bids and to waive irregularities and any requirements of the bid if deemed to be in the best interest of the City.

L. All units must be delivered to the City in a ready for service condition.

M. Transmission temperature gauge or light required on all automatic transmissions.

N. Maximum capacity cooling system offered by manufacturer.

O. Vehicles to be equipped with State Inspection Decal.

P. Transmission temperature gauge required on all automatic transmissions.

Q. Successful offeror or offeror’s subcontractor, whoever will be converting the turnkey unit, must hold a current Converter’s License pursuant to the State of Texas Department of Transportation guidelines for converting/mounting truck bodies on to truck cab & chassis and provide said proof of licensing upon request by the City of San Antonio. Failure to comply with the State of Texas laws regarding conversion may result in disqualification of the offer. Offerors will certify that all services needed to successfully converted the cab & chassis and body will be performed by a company who has met all the above mentioned licensing requirements and provide company’s information as follows:

DEALER NAME: Philpott Ford

ADDRESS: 1400 N Hwy 69 Nederland, TX 77627

ITEM	QUANTITY	DESCRIPTION
1	2 Each	Wildland Fire Engine/Brush Trucks NWCG Type V 19,500 GVW Off Road Fire Apparatus

**CHASSIS**

The chassis will be a 2011 Ford, Model F-550 Super Duty, two doors, four wheel drive (4X4), 60" CA supplied with the following specifications:

**DELIVERY & INFORMATION**

The apparatus will be delivered under its own power to insure proper break-in of all components while the apparatus is still under warranty. At the time of delivery, complete operation and maintenance manuals covering the apparatus will be provided.

**PERFORMANCE TESTS**

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than 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 vibration or noise.

**SEATING CAPACITY**

The seating capacity in the cab will be two (2).

**WHEELBASE**

The wheelbase of the vehicle will be 141".

**GVW RATING**

The gross vehicle weight rating will be 19,500 pounds.

**FRAME**

The frame rails will be single channel type.

**FRONT AXLE**

The front axle will be a driving type with a 7,000 pound capacity rating at the ground. The front axle hubs will be manually operated.

**TRANSFER CASE**

A manually shifted, two (2) speed transfer case will be provided.

**FRONT SUSPENSION**

- Leaf Spring Type
- Capacity at ground: 6,000 pounds
- Shock absorbers: Double acting, 1.375" gas type
- Front Stabilizer Bar

**REAR AXLE**

- The single reduction rear axle will have a ground rating capacity of 14,760 pounds.
- The unit will have 4.88 gearing with Limited-Slip.

**REAR SUSPENSION**

- The rear suspension will be a leaf spring type, with a capacity at ground level of 15,000 lbs.

- Shock absorbers will be provided on the front axle.
- The rear stabilizer bar will be included.

### **PARKING BRAKE**

The parking brake will be located on the rear axle service brake.

### **ANTI-LOCK BRAKE SYSTEM**

The vehicle will be equipped with an anti-lock braking system. The ABS system will provide anti-lock braking control on both the front and rear wheels. It is to be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel is to be monitored by the system. When any particular wheel begins to lockup, a signal is to 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.

### **BRAKES**

The front and rear brakes will be hydraulic disc type.

### **ENGINE**

- Model: Power Stroke 6.7 turbocharged Diesel, Cast iron block and heads
- Number of Cylinders: Eight (8), "V" configuration
- Bore and Stroke: 3.9 x 4.25
- Displacement: 6.7 liters
- Compression Ratio: 16.2:1
- Rated Brake Horsepower: 390 at 2800 rpm
- Peak Torque: 735 at 1600 rpm
- Turbocharger
- Combustion System: Hydraulic Rail Fuel System

### **ENGINE ACCESSORIES**

- Air Cleaner: Dry type, with restriction indicator in cab.
- Governor: Limiting speed type
- Lube Oil Cooler
- Lube Oil Filter: Full flow
- Fuel Filter: Single fuel filter/water separator, heated
- Starting Motor: 12-volt
- Oil Fill and Level Gauge

### **EMISSIONS SYSTEM**

A DPF (Diesel Particulate Filter) system will be encompassed in the exhaust system. The system is designed to significantly reduce engine emissions to be compliant with new EPA requirements. It will require periodic regeneration (stationary high idle operation) if minimum hi-way usage is encountered. Apparatus produced after 1-2010 may require the usage of urea to meet manufacturer's requirements.

### **RADIATOR**

- Pressurized System, Tube and Fin
- Anti-Freeze Protection to -20 degrees Fahrenheit

### **EXHAUST SYSTEM**

The exhaust will exit on the right side behind the rear wheels.

**COOLANT LINES**

Hose clamps will be the "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.

**FUEL TANK**

- The fuel tank provided will be 40 gallon capacity and mounted behind the rear axle by the chassis manufacturer. It will comply with all DOT regulations. It will be designed and installed so that it does not interfere with the mounting of the pump, plumbing or other components.
- An auxiliary fuel tap will be provided.

**TRANSMISSION**

A six (6) speed automatic overdrive transmission will be provided.

**TRANSMISSION COOLER**

A transmission oil cooler will be provided in the lower tank of the radiator.

**TRANSMISSION WARRANTY**

The Transmission will have the standard warranty as supplied by the chassis manufacturer.

**DRIVELINE**

The driveline will be a heavy duty metal tube type. A splined slip joint will be provided in each driveshaft.

**STEERING**

- The steering will consist of a hydraulically driven steering system.
- The steering gear ration will be 20.3:1.00.
- The steering wheel will be 15.00" in diameter.

**TIRES, FRONT**

The front tires will be 225/70R1619.50, radial all terrain tread.

**WHEELS, FRONT**

Wheels for the front axle will be 19.50" x 6.00" steel disc, eight (8) hole pattern.

**TIRES, REAR**

The rear tires will be 225/70R19.50, radial all terrain tread.

**WHEELS, REAR**

The rear wheels will be 19.50"x 6.00" steel disc with an eight (8) hole pattern.

**SPARE TIRE**

A full size spare tire and wheel will be mounted on top of the water tank.

**MUD FLAPS**

Mud flaps will be installed behind the front and rear wheels.

**CAB**

Type: Conventional (engine forward)

Construction: Welded Steel

Interior: XL Package

Accessories:

- Tinted Glass in all Windows
- Gray Vinyl Upholstery

- Black Rubber Floor Mats
- Dual Sun-Visors
- Electric Windshield Washer
- Two (2) speed Electric Windshield Wipers, with intermittent control
- Dome Light
- Air Conditioning
- Fresh Air Heater and Defroster
- Painted Hood Mounted Grille
- Dual Electric Horns
- Driver and Passenger Air Bags
- Gray Vinyl Upholstery
- Power windows

### CHASSIS PAINT

Chassis cab will be painted in **RED** by the manufacturer.

### MIRRORS

The mirrors will be black, manual, foldaway type. The mirrors will manually telescope in/out for view adjustment.

### SEATING

Seating inside the cab will consist of two (2) bucket seats. All seats will have shoulder belts. There will be no factory center console, due to the center console will be fabricated.

### CAB INSTRUMENTATION

- Instrument panel controls and switches will be identified to function by imprinted word(s) adjacent to each item. Actuation of the headlight switch will illuminate ("back-lite") wording for after dark operation. Turn signal and high beam headlight indicator lights will also be provided.
- To avoid confusion, warning indicators will be (where possible) the "dead front" type, meaning the warning light and word identification of the same, does not show up unless it is necessary. The built-in emergency light switch panel will have a master switch plus individual switches for selective control.
- Switches will be rocker type containing an indicator light, which is an integral part of the switch. Instrument panel gauges, vehicle lights and other electrical accessories will have proper size wiring to accommodate the expected current load. Wiring will meet SAE J-1128 specifications for high temperature (250 degrees Fahrenheit minimum) conditions and will be color, number and function coded.
- Cab instruments and controls will be conveniently located within the forward cab section. Gauges and emergency vehicle switches will be installed on removable panels for ease of service. The following gauges and controls will be furnished:

### CAB INSTRUMENTS

- Engine Temperature Gauge
- Engine Oil Pressure Gauge
- Speedometer
- Odometer
- Engine Tachometer
- Engine Hour Meter
- Fuel Level Gauge
- Voltmeter

- Air Restriction Indicator

#### **ENGINE HOUR METER**

The engine hour meter will be connected in a fashion to activate with the engine oil pressure or only while the engine is operating.

#### **BATTERY SYSTEM**

A single starting battery system will be provided consisting of two (2) 12 volt, 850 CCA, maintenance-free, group 31 batteries. The battery system will have a total of 1700 CCA.

#### **MASTER BATTERY DISCONNECT**

An electronic solenoid will be incorporated into the ignition switch that cuts the electrical power to the body of the vehicle. The ignition switch must be on for the electric starter on the pump to work.

#### **ELECTRICAL SYSTEM**

Alternator: Single 155 amps, internally regulated.

#### **EXTERIOR LIGHTING**

- Exterior lighting will meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at this time.
- Front headlights shall be halogen type and comply with all FMVSS requirements.
- Five (5) clearance/marker lights will be installed across the leading edge of the cab.

#### **BUMPER**

- The factory bumper will be removed and replaced with a steel Trail Boss bumper/grille guard. It will be mounted to the chassis frame rails. The factory two loops will be installed.
- There will be a 5/16" skid plate from the grill extending below the radiator.
- A winch will be installed in the bumper.
- The bumper will be painted **RED**.

#### **WINCH**

A Warn Industrial 15,000 lbs capacity 12 volt electric winch will be installed. The winch will be installed in the front bumper. A control lanyard will be supplied.

#### **SKID PLATES**

Two (2) 5/16" steel skid plates will be installed under the chassis frame, one (1) covering the radiator, and one (1) covering the transmission/transfer case.

#### **BODY ARMOR**

2" sch 40 round tubing will be used to construct body armor that contours to the bottom of the wheel openings, cab and body. It shall run the full length of the apparatus. It shall be mounted to the chassis frame. Cab entry steps/running boards, made of 3/16" expanded metal will be integral within the armor.

#### **CAB PROTECTORS**

Two (2) 1 1/2" sch 40 cab protector bars will be installed between the headache rack and the front bumper. It shall be flexibly mounted with polyurethane mounts on each end and removable for service. The bars will have a connector bar between them.

#### **BODY STYLE**

The body will be a Skeeter Storage-Side type constructed of steel and aluminum. The deck and side panels will be covered with 1/8" Diamond Brite Aluminum.

#### **BODY LENGTH**

The length of the body shell will be 114" from front to back, excluding bumpers, steps or other ancillary components. Individual compartment dimensions will be described within the text of each component.

### **BODY FRAME**

The frame rails are 5" standard steel channel. The cross members are standard 3" steel channel, on 12" centers. Upon completion, the frame is sand blasted, cleaned, primed and coated with RED epoxy paint. The frame is covered with 1/8" Diamond Brite aluminum formed and welded to fit tight.

### **ALUMINUM TREAD PLATE ON FRONT OF BODY**

The front sheet of the body will have Diamond Brite aluminum tread plate installed to provide top-to-bottom coverage.

### **HEADACHE RACK**

There is a 2" steel tube headache rack that is primed and painted with RED hard coat enamel. The rack includes mounts for the light bar and two work lights. Wiring for the lights will be placed inside the tubing for protection.

### **PROTECTIVE RAILS**

Protective 1" sch 40 tubing will run along both sides of the upper portion of the body. Welded to the steel frame/crossmembers. They will be painted RED hard coat enamel.

### **REAR SKIRT & BUMPER**

- A rear aluminum and steel bumper/tailboard will be provided that is an integral part of the body substructure. The rear bumper will be constructed of smooth aluminum to accommodate reflective chevron striping.
- The rear step/bumper will be covered on the top with Diamond Brite aluminum tread plate.

### **REAR HITCH**

- A receiver hitch will be installed at the rear of the apparatus below the rear bumper.
- The hitch will be constructed of heavy steel tubing and reinforced to the truck framework, for the receiving portion. This will be a Class III/IV trailer hitch. A class IV rating will be obtained only when a weight distributing hitch is used.
- A seven prong trailer wiring plug will be provided at the rear with a weatherproof snap cover.

### **SIDE STORAGE LOCKERS**

Two (2) 24"W x 24"L x 40"H cubicles for storage will be constructed in aluminum tread plate on the driver's and passenger's side in the front of the body. The compartments will have a shelf 30" above the floor.

### **SIDE BODY COMPARTMENTS**

- Two (2) aluminum compartments will be mounted, one (1) on each side of the body over the rear wheels, The dimensions of the compartments are approximately 18"W x 48"L x 24"H. The compartment floors will be lined with Turtle Tile.
- The compartments will be lockable.

### **REAR BODY COMPARTMENT**

A rear compartment will be constructed of steel 5"H x 34"W x 96"L between the frame rails for suction hoses, pike poles, or ladders. There is a hinged drop door in the center of the rear skirt above the rear step with dual rubber mount stretch latches.

### **TOOL BOX**

- An 1/8" thick Diamond Brite aluminum tool box will be mounted on the passenger's side above the compartment. The dimensions of the tool box are 16"W x 60"L x 9"H and will have a Diamond Brite aluminum cover, hinged, with a rubber mount stretch latch. The tool box floor will be lined with Turtle Tile.
- The box can be used for storage of shovels, rakes, brooms, etc.

### **HOSE TRAY**

An 1/8" thick Diamond Brite Aluminum hose tray will be mounted on the driver's side above the compartment designed for rear unloading. The dimensions of the hose tray are 16"W x 48"L x 9"H and will have a Diamond Brite aluminum tray cover, hinged, with a rubber mount stretch latch. The hose tray floor will be lined with Turtle Tile.

#### **PUMP ENCLOSURE**

A removable 1/8" aluminum Diamond Brite pump enclosure will be constructed.

#### **BODY WARRANTY**

The body structure will be warranted for five (5) years.

#### **WATER TANK**

- Booster tank will have a capacity of 400 gallons and be constructed of polypropylene plastic by Plas Mac, Inc. Tank will be rectangular in shape and white in color. Tank joints and seams will be nitrogen welded inside and out.
- Tank will be baffled in accordance with NFPA Bulletin 1906 requirements. Baffles will have vent openings at both the top and bottom to permit movement of air and water between compartments. All partitions will interlock and will be welded to the tank bottom and sides.
- Tank top will be constructed of .50" polypropylene. Tank top will be sufficiently supported to keep it rigid during fast filling conditions.
- The fill tower will have stainless steel strainers. The overflow pipe extends through the tank from the fill tower through the bottom. A drain line and valve will be provided.
- Tank will be installed in a fabricated cradle assembly constructed of steel. It will be designed to support the tank when full of water. This substructure will extend to include a mounting structure for the pump and plumbing assembly.
- Mounting provisions will be provided to keep the tank in position while the vehicle is moving.

#### **WATER TANK SITE GAUGE**

A clear, water level, site gauge will be provided inside the water tank. The site gauge will be visible from the rear of the apparatus.

#### **ELECTRONIC WATER TANK LEVEL GAUGES**

Two (2) Class 1 electronic water tank level gauges will be installed; one (1) in pump panel and one (1) in the cab console.

#### **ELECTRONIC FOAM TANK LEVEL GAUGES**

Two (2) Class 1 electronic foam tank level gauges will be installed; one (1) in pump panel and one (1) in the cab console.

#### **FOAM TANK**

The foam tank will be an external part of the polypropylene water tank. The cell will have a capacity of 10 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.

"CLASS A FOAM" will be installed in 3" red reflective on the foam portion of the tank.

#### **WATER TANK WARRANTY**

Tank will have a limited lifetime warranty from the tank manufacturer.

#### **FIRE PUMP**

A Hale HPX 200BD 26 HP pump with the following:

##### **Pump Performance**

The pump/engine shall perform to the standards of ISO 9 and NFPA 1906 low-pressure pump rating. Typical pump performance from 4 foot (1.52 mt) draft at sea level using a 2.5in Suction line and a 2.5in discharge shall be: 60 GPM (227 ltpm) @ 150 PSI, 150GPM (567.8 ltpm) @ 100 PSI, and 245 GPM (927.42ltpm) @ 25 PSI.

##### **Pump**

The pump body shall be made of alloy aluminum castings coupled together with a stainless steel band clamp with an O-ring seal which allows quick pump volute removal for servicing. The pump end shall be factory hydrostatically tested to 350 PSI for 10 minutes. The impeller shall be bronze. The renewable clearance rings shall be made of anodic plated bronze to inhibit galvanic corrosion. The impeller shall be 4.87 inches (12.38 cm) in diameter and designed with a sleeve back end to prevent water from coming in contact with the engine shaft. The pump shaft seal shall be an automatically adjusting, maintenance free, mechanical type. The pump body shall be equipped with a petcock drain valve.

**Priming**

The pump shall be equipped with an exhaust venture primer of brass and stainless steel construction. The primer shall be capable of 20 inches of mercury vacuum. The primer shall be actuated with a spring return, single control lever located at the operator's panel.

**Discharge**

The discharge ports shall be female pipe thread, designed and located to accept applicable hose thread adapters installed so proper clearance is provided for spanner wrenches or adapters.

**Engine**

The engine shall be a 4 cycle diesel Briggs and Stratton Vanguard DM950D, overhead valve, water cooled design. Engine rating shall be 26 BHP. Engine displacement shall be designed to meet CARB (California Air Resources Board) standards. A 12-volt electric system shall be provided with electric starter and a 16amp alternator. Recoil backup engine starting shall be provided. Engine shall be equipped with a residential muffler with USDA approved spark arrestor.

**Mounting Platform**

The pump/engine shall be isolation mounted onto a steel base plate accessible from the rear of the body behind the tank.

**Ball Valves**

Valves will be R&W 5044F with a brass housing, stainless ball and Teflon seats.

**Instrumentation**

The pump shall be supplied with a control panel set up for easy viewing. This includes a throttle lever, primer control cable, master switch, starter button, choke control, a 2.5 inch liquid filled discharge gauge, light switch, hose reel button, and an oil pressure warning light.

**Piping and Manifolds**

All the piping and pump body attached manifolding shall be galvanized schedule 40.

**Tank Fill**

There shall be a 2.5" pump to tank fill stainless steel valve.

**Tank to Pump**

The tank to pump valve shall be 2.5" inline, installed between the water tank and the pump. The valve shall be a quarter turn ball type, fixed pivot design and be constructed of brass with a stainless steel ball.

**Gated Suction Connection**

The Gated Suction valve shall be 2.5" inline, with a 2.5" NST female coupling with a plug and chain.

**FOAM SYSTEM**

- A Waterous Aquis 1.5 Class A foam system will be installed on the discharge side of the pump. A ¼" turn ball valve will be located at the tank to cut off the foam. The foam cell will be located in the tank in the vicinity of the pump. A flush system will be installed.

- There will be two (2) sets of controls for the foam system, one (1) on the pump panel at the rear of the body, and one (1) inside the cab in the center console.

**BOOSTER HOSE REEL**

- An aluminum Hannay electric rewind, booster hose reel will be installed at the rear of the apparatus on the driver's side. Reel rewind buttons to be provided at rear near water pump. The reel will have chrome roller fairleads.
- Discharge control will be provided at the pump operator's location. Plumbing to the reel will consist of 1.00" Aeroquip hose and 1.00" valve.
- Booster hose, 1.00" diameter and 150 feet, with Barway, or equal couplings will be provided.

**OUTLETS/INLET**

- A 1.5" combination tank refill and pump bypass line will be provided, using a quarter-turn full flow ball valve controlled from the pump.
- One (1) 2 ½" discharge ball valves facing out the rear. A 2.5" NST female X 1.5" NST male chrome adapter will be supplied with a cap and chain.
- One (1) 2" discharge will be piped to the front of the chassis for supplying the monitor and sweep nozzles.
- One (1) 1.5" line with valve will supply the hose reel.
- One (1) 2" line with valve will supply the pre-connect tray.
- One (1) 2.5" suction inlet with a swivel and cap will be provided.

**ELECTRIC TANK TO PUMP VALVE**

- An electric 3" tank to pump valve will be installed. The pump inlet will be connected with a Victaulic coupling.
- The entire intake system will be 3".

**PLUMBING**

All plumbing and KC nipples will be schedule 40 welded stainless steel. There will be victaulic couplings to allow ease of repair.

**FRONT TURRET**

- There will be an Elkhart Model 5000-14 Sidewinder Wildland discharge turret mounted on the front of the vehicle. It will be installed so that it does not interfere with the opening of the hood.
- It will have a remote control joystick that will be mounted inside the cab that will control turret operations.
- Control of water flow shall be via an electronically controlled valve.
- It shall be supplied with a 95 gpm electronically operated nozzle.

**SWEEP NOZZLES**

- Two (2) spray nozzles will be installed (one each side) under the front bumper. They will be independently controlled from inside the cab. Each nozzle will have a separate electrically operated control valve.
- Each valve will have a protective cage surrounding it to protect it from obstacles.
- The flow rate will be approximately 15-20 gpm. They will be threaded with NPT and machined from one piece of aluminum or brass stock.

**PUMP CONTROLS**

- The pump will be controlled at two (2) locations: one (1) control panel at the passenger's side rear of the body, and one (1) inside the cab, in the center console.
- The rear controls will have pressure gauge, a suction gauge, a tachometer, oil and temp lights, primer, foam controls, tank to pump control, water and foam level lights, throttle, starter, and a light.
- The cab controls will have a pressure gauge, a tachometer, oil and temp lights, foam control switch (on/off), tank to pump control, water and foam level lights, throttle, starter, and a flexible mount light.

-All controls will be labeled with permanent labels.

### **CENTER CONSOLE**

A 1/8" aluminum center console will be constructed between the front seats. It will contain the pump controls, monitor controls, sweep nozzles, department supplied radio, siren controller, emergency light switches, two Survivor flashlights, and a flexible light.

### **DRAINS**

The pump will be equipped with a drain system to drain the water pump and the discharge plumbing from their lowest points. It will be controlled at the pump.

### **PUMP MANUALS**

One (1) copy of operation and maintenance manuals will be provided to the purchaser with the unit. Manuals will include detailed instructions in the operation and maintenance of the overall modular pump unit, engine, and water pump.

### **ELECTRICAL**

Wiring and battery cables are run the length of the body in 1" tubing welded to the underside of the body. All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run in loom or 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:

- (1) The only hole made in the roof will be for customer requested antennas. It will be caulked with silicon.
- (2) 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 is defined as any location outside of the cab or body.
- (3) 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. 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.
- (4) 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).
- (5) All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
- (6) All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches will be mounted on a separate panel installed in the cab. A master warning light switch and individual switches will be provided to allow preselection of emergency lights. The light switches will be "rocker" type with an internal indicator light to show when switch is energized. All switches will be properly identified and mounted in a removable panel for ease in servicing.

Identification of the switches will be done by either printing or etching on the switch panel. The switches and identification will be illuminated.

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.

#### **IN SERVICE/OUT of SERVICE SYSTEM**

- A sealed box containing five (5) 20 amp circuit breakers will be installed behind the driver's seat. The box will include a single ground stud.
- The breakers will be for all SAFD installed equipment (radios, computers, etc).
- There system will be supplied 12 volt power via a 50 amp solenoid with remote armored switch mounted under the left side (drivers) dash. The switch and the box will both be labeled "IN SERVICE/OUT of SERVICE SYSTEM".

#### **ELECTRONIC SIREN**

A Whelen, Model: 295SLSA1, electronic siren with noise canceling microphone shall be provided. Siren head will be mounted low on the front dash in easy reach of the driver.

#### **SPEAKERS**

There shall be two (2) Whelen, Model SA314A, 100-watt, with natural aluminum finish speakers installed on the grill guard plate.

#### **STEP LIGHTS**

Two (2) Weldon, clear step lights will be provided in rear pump area.

#### **REAR FMVSS LIGHTING**

- The rear stop/tail and directional LED lighting will consist of the following:
  - Two (2) Weldon red LED round stop/tail/turn lights.
  - Two (2) Weldon halogen backup lights.
- All lights will be placed on the rear skirt of the apparatus.
- Four (4) red reflectors will be placed on the lower-rear body of the apparatus on the rear corners.
- A Weldon, Model 23882-2600-00, license plate bracket will be mounted on the driver's side above the warning lights. A Weldon, Model 9186-23882-30, step lamp will illuminate the license plate.
- The three (3) identification lights located at the rear will be installed per the following:
  - Truck-Lite, round, recessed, LED
  - As close as practical to the vertical centerline.
  - Centers spaced not less than six (6) inches or more than twelve (12) inches apart.
  - Red in color.
  - All at the same height.
- The four (4) clearance lights located at the rear will be installed per the following:
  - Truck-Lite, round, recessed 35, LED
  - To indicate the overall width of the vehicle.
  - One (1) each side of the vertical centerline.
  - All at the same height.
  - As near the top as practical.
  - To be visible from the rear and the side.
    - One (1) each side, facing the side.
    - One (1) each side, facing the rear.
- Per FMVSS 108 and CMVSS 108 requirements.
- All marker lights will be round, recessed, LED.

#### **PERIMETER SCENE LIGHTS, CAB AND BODY**

There will be four (4) Truck-Lite, model 40003, 4.00" grommet mount weatherproof light provided, one (1) for each cab door, and two (2) under the tailboard. Lighting will be designed to provide illumination on cab area, which will be activated automatically when the exit doors are opened, by the door jam switch and by the same means as the body perimeter lights. All perimeter lighting will activate when the parking brake is applied.

### **COMPARTMENT LIGHTS**

There will be four (4) LED high intensity 4" round compartment lights installed, one (1) in each compartment.

### **WARNING LIGHT**

- A Whelen Justice lightbar shall be mounted in front of the headache rack within the protection area of the headache rack.
- The length of the lightbar shall be 50". All the lenses shall be clear.
- The lightbar shall include the following:
  - Four (4) red flashing forward facing LED modules.
  - Two (2) clear flashing forward facing LED modules.
  - Two (2) red flashing front corner LED modules.
  - One (1) red flashing driver side facing LED module.
  - One (1) red flashing officer side facing LED module.
- One (1) switch located in the cab, on the switch panel, shall control this lightbar.

### **LIGHT BAR SHROUD**

A custom ¼" x 1" aluminum shroud will be fabricated for the light bar.

### **FRONT WARNING LIGHTS**

- Two (2) Whelen 700 Series, Model 70\*02F\*R Super-LED flashing lights shall be provided in the front bumper, one (1) side.
- The color of these lights shall be **red**.
- The lights will be controlled by a single rocker switch on the siren control panel.

### **SIDE WARNING LIGHTING**

- Six (6) Whelen 700 Series, Model 70\*02F\*R Super-LED® flashing lights shall be provided in the following positions.
  - Front bumper extension, one (1) each side.
  - Rear cross hand-rails one (1) each side.
  - Rear of body, low, one (1) each side.
- The color of these lights shall be **red**.
- The lights will be controlled by a single rocker switch on the siren control panel.

### **REAR WARNING LIGHTING**

- Four (4) Whelen 700 Series, Model 70\*02F\*R, Super-LED® warning lights shall be located at the rear of the apparatus.
- Two (2) upper lights shall be **RED**.
- Two (2) lower light shall be **AMBER**.

### **HEADLIGHT FLASHER**

- The high beam headlights will flash alternately between the left and right side, with a control switch located on the cab instrument panel in the center console.
- The flash mode will automatically cancel when the parking brake is set.

### **OFF ROAD LIGHTS**

There will be two (2) 7" HID off road lights mounted in the front bumper.

### **SCENE LIGHTS**

There will be six (6) high intensity LED scene lights installed on the body. Two (2) will be mounted at the upper corners of the body each side and two (2) on mounted at the upper corners of the rear of the upper body. They will be switched as follows:

- "LEFT SCENE"

- "RIGHT SCENE"
- "REAR SCENE"

### **BACK UP ALARM**

Federal back up alarm will be installed on the rear of the apparatus.

### **CAMERA/MONITOR**

A Rear View Safety MIS-770614 color monitor will be mounted on the dash board of the cab. It will be wired to two (2) color cameras. One (1) camera will observe the area in front of the chassis and one (1) will observe the ground behind the body.

### **FLASHLIGHTS**

- Two (2) Streamlight Litebox flashlights with chargers will be mounted inside the driver's side vertical compartment.
- Two (2) Streamlight Survivor LED flashlights with chargers will be mounted on the rear of the center console inside the cab. They will be wired to the "IN SERVICE" switch.

### **REFLECTIVE BAND**

- A 4.00" reflective band will be provided across the front of the vehicle. A 4" white stripe will be placed along the side of the cab. A 4.00" band will also be provided at the rear of the apparatus.
- The reflective band provided on the cab will be between the front grille and the front bumper.

### **LETTERING**

The following graphics will be supplied and installed:

- SAFD shields (3)
- "KEEP BACK 500 FEET", 4" gold reflective
- "NWCG TYPE 5 ENGINE", 2" gold reflective, both sides of hood
- "SAFD", 4" gold reflective, front of hood

### **FRONT BUMPER STRIPING**

There shall be alternating chevron striping located on the front bumper of the apparatus. The striping shall consist of 4" diamond grade striping in the following colors:

- The first color shall be red diamond grade
- The second color shall be lime yellow diamond grade

### **REAR SKIRT STRIPING**

There shall be alternating chevron striping located on the rear skirt of the apparatus. The striping shall consist of 4" diamond grade striping in the following colors:

- The first color shall be red diamond grade
- The second color shall be lime yellow diamond grade

### **PAINT**

- The cab will be painted in **RED** unless otherwise directed by the purchaser.
- Body structures will be painted **RED**.

### **SPANNER WRENCH SET**

A spanner wrench set will be provided and mounted on the rear side of the driver's side compartment in front of the hose reel.

### **MOUNTED EQUIPMENT**

The following equipment will be mounted using PAC brackets at the direction of SAFD:

- Drip Torch with mounting bracket
- Pick Head Axe
- Polaski
- Wheel Clock/Holder
- Nozzle .75"

- Nozzle 1"
- Nozzle 1.5"
- Forestry Hose .75" x 300'
- Forestry Hose 1" x 300'
- Forestry Hose 1.5 x 300'
- .75" x 1.5" Adapter
- 1"x1.5" Adapter
- 2" x 8' x2" Hard suction drafting hose
- 2.5" suction strainer

**WARRANTIES**

- The overall chassis warranty\*: 1 year/unlimited mileage
- Engine warranty\*: 2 years/unlimited mileage
- Transmission warranty\*: 2 years/unlimited mileage
- Rear Axle warranty\*: 2 years/unlimited mileage
- \*All chassis related warranty issues will be covered by Philpott
- Tank: Lifetime warranty
- Pump: Hale, two years parts and labor
- Body Bed Substructure: Body Mfg., 5 years
- Body, electrical, paint, plumbing, package: Body Mfg., 1 year unless exceeded by component manufacturer

ITEM	QUANTITY	DESCRIPTION
2	1 Each	Wildland Fire Engine/Brush Trucks NWCG Type V 19,500 GVW Off Road Fire Apparatus

**CHASSIS**

The chassis will be a 2011 Ford, Model F-550 Super Duty, four door crew cab, four wheel drive (4X4), 60" CA supplied with the following specifications:

**DELIVERY & INFORMATION**

The apparatus will be delivered under its own power to insure proper break-in of all components while the apparatus is still under warranty. At the time of delivery, complete operation and maintenance manuals covering the apparatus will be provided.

**PERFORMANCE TESTS**

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than 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 vibration or noise.

**SEATING CAPACITY**

The seating capacity in the cab will be four (4).

**GVW RATING**

The gross vehicle weight rating will be 19,500 pounds.

**FRAME**

The frame rails will be single channel type.

**FRONT AXLE**

The front axle will be a driving type with a 7,000 pound capacity rating at the ground. The front axle hubs will be manually

operated.

**TRANSFER CASE**

A manually shifted, two (2) speed transfer case will be provided.

**FRONT SUSPENSION**

- Leaf Spring Type
- Capacity at ground: 6,000 pounds
- Shock absorbers: Double acting, 1.375" gas type
- Front Stabilizer Bar
- Shock absorbers will be provided on the front axle.

**REAR AXLE**

- The single reduction rear axle will have a ground rating capacity of 14,760 pounds.
- The unit will have 4.88 gearing with Limited-Slip.

**REAR SUSPENSION**

- The rear suspension will be a leaf spring type, with a capacity at ground level of 15,000 lbs.
- Shock absorbers will be provided on the front axle.
- The rear stabilizer bar will be included.

**PARKING BRAKE**

The parking brake will be located on the rear axle service brake.

**ANTI-LOCK BRAKE SYSTEM**

The vehicle will be equipped with an anti-lock braking system. The ABS system will provide anti-lock braking control on both the front and rear wheels. It is to be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel is to be monitored by the system. When any particular wheel begins to lockup, a signal is to 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.

**BRAKES**

The front and rear brakes will be hydraulic disc type.

**ENGINE**

- Model: Power Stroke 6.7 turbocharged Diesel, Cast iron block and heads
- Number of Cylinders: Eight (8), "V" configuration
- Bore and Stroke: 3.9 x 4.25
- Displacement: 6.7 liters
- Compression Ratio: 16.2:1
- Rated Brake Horsepower: 390 at 2800 rpm
- Peak Torque: 735 at 1600 rpm
- Turbocharger
- Combustion System: Hydraulic Rail Fuel System

**ENGINE ACCESSORIES**

- Air Cleaner: Dry type, with restriction indicator in cab.
- Governor: Limiting speed type
- Lube Oil Cooler
- Lube Oil Filter: Full flow
- Fuel Filter: Single fuel filter/water separator, heated
- Starting Motor: 12-volt
- Oil Fill and Level Gauge

**EMISSIONS SYSTEM**

A DPF (Diesel Particulate Filter) system will be encompassed in the exhaust system. The system is designed to significantly reduce engine emissions to be compliant with new EPA requirements. It will require periodic regeneration (stationary high idle operation) if minimum hi-way usage is encountered. Apparatus produced after 1-2010 may require the usage of urea to meet manufacturer's requirements.

**RADIATOR**

- Pressurized System, Tube and Fin
- Anti-Freeze Protection to -20 degrees Fahrenheit

**EXHAUST SYSTEM**

The exhaust will exit on the right side behind the rear wheels.

**COOLANT LINES**

Hose clamps will be the "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.

**FUEL TANK**

- The fuel tank provided will be 40 gallon capacity and mounted behind the rear axle by the chassis manufacturer. It will comply with all DOT regulations. It will be designed and installed so that it does not interfere with the mounting of the pump, plumbing or other components.
- An auxiliary fuel tap will be provided.

**TRANSMISSION**

A six (6) speed automatic overdrive transmission will be provided.

**TRANSMISSION COOLER**

A transmission oil cooler will be provided in the lower tank of the radiator.

**TRANSMISSION WARRANTY**

The Transmission will have the standard warranty as supplied by the chassis manufacturer.

**DRIVELINE**

The driveline will be a heavy duty metal tube type. A splined slip joint will be provided in each driveshaft.

**STEERING**

- The steering will consist of a hydraulically driven steering system.
- The steering gear ration will be 20.3:1.00.
- The steering wheel will be 15.00" in diameter.

**TIRES, FRONT**

The front tires will be 225/70R1619.50, radial all terrain tread.

**WHEELS, FRONT**

Wheels for the front axle will be 19.50" x 6.00" steel disc, eight (8) hole pattern.

**TIRES, REAR**

The rear tires will be 225/70R19.50, radial all terrain tread.

**WHEELS, REAR**

The rear wheels will be 19.50"x 6.00" steel disc with an eight (8) hole pattern.

**SPARE TIRE**

A full size spare tire and wheel will be mounted on top of the water tank.

**MUD FLAPS**

Mud flaps will be installed behind the front and rear wheels.

**CAB**

Type: Conventional (engine forward)

Construction: Welded Steel

Interior: XL Package

Accessories:

- Tinted Glass in all Windows
- Gray Vinyl Upholstery
- Black Rubber Floor Mats
- Dual Sun-Visors
- Electric Windshield Washer
- Two (2) speed Electric Windshield Wipers, with intermittent control
- Dome Light
- Air Conditioning
- Fresh Air Heater and Defroster
- Painted Hood Mounted Grille
- Dual Electric Horns
- Driver and Passenger Air Bags
- Gray Vinyl Upholstery
- Power windows

**CHASSIS PAINT**

Chassis cab will be painted in **RED** by the manufacturer.

**MIRRORS**

The mirrors will be black, manual, foldaway type. The mirrors will manually telescope in/out for view adjustment.

**SEATING**

Seating inside the cab will consist of two (2) bucket seats. All seats will have shoulder belts. There will be no factory center console, due to the center console will be fabricated.

**CAB INSTRUMENTATION**

- Instrument panel controls and switches will be identified to function by imprinted word(s) adjacent to each item. Actuation of the headlight switch will illuminate ("back-lite") wording for after dark operation. Turn signal and high beam headlight

indicator lights will also be provided.

- To avoid confusion, warning indicators will be (where possible) the "dead front" type, meaning the warning light and word identification of the same, does not show up unless it is necessary. The built-in emergency light switch panel will have a master switch plus individual switches for selective control.
- Switches will be rocker type containing an indicator light, which is an integral part of the switch. Instrument panel gauges, vehicle lights and other electrical accessories will have proper size wiring to accommodate the expected current load. Wiring will meet SAE J-1128 specifications for high temperature (250 degrees Fahrenheit minimum) conditions and will be color, number and function coded.
- Cab instruments and controls will be conveniently located within the forward cab section. Gauges and emergency vehicle switches will be installed on removable panels for ease of service. The following gauges and controls will be furnished:

#### **CAB INSTRUMENTS**

- Engine Temperature Gauge
- Engine Oil Pressure Gauge
- Speedometer
- Odometer
- Engine Tachometer
- Engine Hour Meter
- Fuel Level Gauge
- Voltmeter
- Air Restriction Indicator

#### **ENGINE HOUR METER**

The engine hour meter will be connected in a fashion to activate with the engine oil pressure or only while the engine is operating.

#### **BATTERY SYSTEM**

A single starting battery system will be provided consisting of two (2) 12 volt, 850 CCA, maintenance-free, group 31 batteries. The battery system will have a total of 1700 CCA.

#### **MASTER BATTERY DISCONNECT**

An electronic solenoid will be incorporated into the ignition switch that cuts the electrical power to the body of the vehicle. The ignition switch must be on for the electric starter on the pump to work.

#### **ELECTRICAL SYSTEM**

Alternator: Single 155 amps, internally regulated.

#### **EXTERIOR LIGHTING**

- Exterior lighting will meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at this time.
- Front headlights shall be halogen type and comply to all FMVSS requirements.
- Five (5) clearance/marker lights will be installed across the leading edge of the cab.

#### **BUMPER**

- The factory bumper will be removed and replaced with a steel Trail Boss bumper/grille guard. It will be mounted to the chassis frame rails. The factory two loops will be installed.
- There will be a 5/16" skid plate from the gill extending below the radiator.
- A winch will be installed in the bumper.
- The bumper will be painted **RED**.

#### **WINCH**

A Warn Industrial 15,000 lbs capacity 12 volt electric winch will be installed. The winch will be installed in the front bumper. A control lanyard will be supplied.

#### **SKID PLATES**

Two (2) 5/16" steel skid plates will be installed under the chassis frame, one (1) covering the radiator, and one (1) covering the transmission/transfer case.

#### **BODY ARMOR**

2" sch 40 round tubing will be used to construct body armor that contours to the bottom of the wheel openings, cab and body. It shall run the full length of the apparatus. It shall be mounted to the chassis frame. Cab entry steps/running boards, made of 3/16" expanded metal will be integral within the armor.

#### **CAB PROTECTORS**

Two (2) 1 1/2" sch 40 cab protector bars will be installed between the headache rack and the front bumper. It shall be flexibly mounted with polyurethane mounts on each end and removable for service. The bars will have a connector bar between them.

#### **BODY STYLE**

The body will be a Skeeter Storage-Side type constructed of steel and aluminum. The deck and side panels will be covered with 1/8" Diamond Brite Aluminum.

#### **BODY LENGTH**

The length of the body shell will be 114" from front to back, excluding bumpers, steps or other ancillary components. Individual compartment dimensions will be described within the text of each component.

#### **BODY FRAME**

The frame rails are 5" standard steel channel. The cross members are standard 3" steel channel, on 12" centers. Upon completion, the frame is sand blasted, cleaned, primed and coated with RED epoxy paint. The frame is covered with 1/8" Diamond Brite aluminum formed and welded to fit tight.

#### **ALUMINUM TREAD PLATE ON FRONT OF BODY**

The front sheet of the body will have Diamond Brite aluminum tread plate installed to provide top-to-bottom coverage.

#### **HEADACHE RACK**

There is a 2" steel tube headache rack that is primed and painted with RED hard coat enamel. The rack includes mounts for the light bar and two work lights. Wiring for the lights will be placed inside the tubing for protection.

#### **PROTECTIVE RAILS**

Protective 1" sch 40 tubing will run along both sides of the upper portion of the body. Welded to the steel frame/crossmembers. They will be painted RED hard coat enamel.

#### **REAR SKIRT & BUMPER**

- A rear aluminum and steel bumper/tailboard will be provided that is an integral part of the body substructure. The rear bumper will be constructed of smooth aluminum to accommodate reflective chevron striping.
- The rear step/bumper will be covered on the top with Diamond Brite aluminum tread plate.

#### **REAR HITCH**

- A receiver hitch will be installed at the rear of the apparatus below the rear bumper.
- The hitch will be constructed of heavy steel tubing and reinforced to the truck framework, for the receiving portion. This will be a Class III/IV trailer hitch. A class IV rating will be obtained only when a weight distributing hitch is used.
- A seven prong trailer wiring plug will be provided at the rear with a weatherproof snap cover.

**SIDE STORAGE LOCKERS**

Two (2) 24"W x 24"L x 40"H cubicles for storage will be constructed in aluminum tread plate on the driver's and passenger's side in the front of the body. The compartments will have a shelf 30" above the floor.

**SIDE BODY COMPARTMENTS**

- Two (2) aluminum compartments will be mounted, one (1) on each side of the body over the rear wheels, The dimensions of the compartments are approximately 18"W x 48"L x 24"H. The compartment floors will be lined with Turtle Tile.

- The compartments will be lockable.

**REAR BODY COMPARTMENT**

A rear compartment will be constructed of steel 5"H x 34"W x 96"L between the frame rails for suction hoses, pike poles, or ladders. There is a hinged drop door in the center of the rear skirt above the rear step with dual rubber mount stretch latches.

**TOOL BOX**

- A 1/8" thick Diamond Brite aluminum tool box will be mounted on the passenger's side above the compartment. The dimensions of the tool box are 16"W x 60"L x 9"H and will have a Diamond Brite aluminum cover, hinged, with a rubber mount stretch latch. The tool box floor will be lined with Turtle Tile.

- The box can be used for storage of shovels, rakes, brooms, etc.

**HOSE TRAY**

An 1/8" thick Diamond Brite Aluminum hose tray will be mounted on the driver's side above the compartment designed for rear unloading. The dimensions of the hose tray are 16"W x 48"L x 9"H and will have a Diamond Brite aluminum tray cover, hinged, with a rubber mount stretch latch. The hose tray floor will be lined with Turtle Tile.

**PUMP ENCLOSURE**

A removable 1/8" aluminum Diamond Brite pump enclosure will be constructed.

**BODY WARRANTY**

The body structure will be warranted for 5 years.

**WATER TANK**

- Booster tank will have a capacity of 400 gallons and be constructed of polypropylene plastic by Plas Mac, Inc. Tank will be rectangular in shape and white in color. Tank joints and seams will be nitrogen welded inside and out.

- Tank will be baffled in accordance with NFPA Bulletin 1906 requirements. Baffles will have vent openings at both the top and bottom to permit movement of air and water between compartments. All partitions will interlock and will be welded to the tank bottom and sides.

- Tank top will be constructed of .50" polypropylene. Tank top will be sufficiently supported to keep it rigid during fast filling conditions.

- The fill tower will have stainless steel strainers. The overflow pipe extends through the tank from the fill tower through the bottom. A drain line and valve will be provided.

- Tank will be installed in a fabricated cradle assembly constructed of steel. It will be designed to support the tank when full of water. This substructure will extend to include a mounting structure for the pump and plumbing assembly.

- Mounting provisions will be provided to keep the tank in position while the vehicle is moving.

**WATER TANK SITE GAUGE**

A clear, water level, site gauge will be provided inside the water tank. The site gauge will be visible from the rear of the apparatus.

**ELECTRONIC WATER TANK LEVEL GAUGES**

Two (2) Class 1 electronic water tank level gauges will be installed; one (1) in pump panel and one (1) in the cab console.

**ELECTRONIC FOAM TANK LEVEL GAUGES**

Two (2) Class 1 electronic foam tank level gauges will be installed; one (1) in pump panel and one (1) in the cab console.

**FOAM TANK**

The foam tank will be an external part of the polypropylene water tank. The cell will have a capacity of 10 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.

"CLASS A FOAM" will be installed in 3" red reflective on the foam portion of the tank.

**WATER TANK WARRANTY**

Tank will have a limited lifetime warranty from the tank manufacturer.

**FIRE PUMP**

A Hale HPX 200BD 26 HP pump with the following:

**Pump Performance**

The pump/engine shall perform to the standards of ISO 9 and NFPA 1906 low-pressure pump rating. Typical pump performance from 4 foot (1.52 mt) draft at sea level using a 2.5in Suction line and a 2.5in discharge shall be: 60 GPM (227 ltpm) @ 150 PSI, 150GPM (567.8 ltpm) @ 100 PSI, and 245 GPM (927.42ltpm) @ 25 PSI.

**Pump**

The pump body shall be made of alloy aluminum castings coupled together with a stainless steel band clamp with an O-ring seal which allows quick pump volute removal for servicing. The pump end shall be factory hydrostatically tested to 350 PSI for 10 minutes. The impeller shall be bronze. The renewable clearance rings shall be made of anodic plated bronze to inhibit galvanic corrosion. The impeller shall be 4.87 inches (12.38 cm) in diameter and designed with a sleeve back end to prevent water from coming in contact with the engine shaft. The pump shaft seal shall be an automatically adjusting, maintenance free, mechanical type. The pump body shall be equipped with a petcock drain valve.

**Priming**

The pump shall be equipped with an exhaust venture primer of brass and stainless steel construction. The primer shall be capable of 20 inches of mercury vacuum. The primer shall be actuated with a spring return, single control lever located at the operator's panel.

**Discharge**

The discharge ports shall be female pipe thread, designed and located to accept applicable hose thread adapters installed so proper clearance is provided for spanner wrenches or adapters.

**Engine**

The engine shall be a 4 cycle diesel Briggs and Stratton Vanguard DM950D, overhead valve, water cooled design. Engine rating shall be 26 BHP. Engine displacement shall be designed to meet CARB (California Air Resources Board) standards. A 12-volt electric system shall be provided with electric starter and a 16amp alternator. Recoil backup engine starting shall be provided. Engine shall be equipped with a residential muffler with USDA approved spark arrestor.

**Mounting Platform**

The pump/engine shall be isolation mounted onto a steel base plate accessible from the rear of the body behind the tank.

**Ball Valves**

Valves will be R&W 5044F with a brass housing, stainless ball and Teflon seats.

**Instrumentation**

The pump shall be supplied with a control panel set up for easy viewing. This includes a throttle lever, primer control cable, master switch, starter button, choke control, a 2.5 inch liquid filled discharge gauge, light switch, hose reel button, and an oil pressure warning light.

**Piping and Manifolds**

All the piping and pump body attached manifolding shall be galvanized schedule 40.

**Tank Fill**

There shall be a 2.5" pump to tank fill stainless steel valve.

**Tank to Pump**

The tank to pump valve shall be 2.5" inline, installed between the water tank and the pump. The valve shall be a quarter turn ball type, fixed pivot design and be constructed of brass with a stainless steel ball.

**Gated Suction Connection**

The Gated Suction valve shall be 2.5" inline, with a 2.5" NST female coupling with a plug and chain.

**FOAM SYSTEM**

- A Waterous Aquis 1.5 Class A foam system will be installed on the discharge side of the pump. A ¼" turn ball valve will be located at the tank to cut off the foam. The foam cell will be located in the tank in the vicinity of the pump. A flush system will be installed.
- There will be two (2) sets of controls for the foam system, one (1) on the pump panel at the rear of the body, and one (1) inside the cab in the center console.

**BOOSTER HOSE REEL**

- An aluminum Hannay electric rewind, booster hose reel will be installed at the rear of the apparatus on the driver's side. Reel rewind buttons to be provided at rear near water pump. The reel will have chrome roller fairleads.
- Discharge control will be provided at the pump operator's location. Plumbing to the reel will consist of 1.00" Aeroquip hose and 1.00" valve.
- Booster hose, 1.00" diameter and 150 feet, with Barway, or equal couplings will be provided.

**OUTLETS/INLET**

- A 1.5" combination tank refill and pump bypass line will be provided, using a quarter-turn full flow ball valve controlled from the pump.
- One (1) 2 ½" discharge ball valves facing out the rear. A 2.5" NST female X 1.5" NST male chrome adapter will be supplied with a cap and chain.
- One (1) 2" discharge will be piped to the front of the chassis for supplying the monitor and sweep nozzles.
- One (1) 1.5" line with valve will supply the hose reel.
- One (1) 2" line with valve will supply the pre-connect tray.
- One (1) 2.5" suction inlet with a swivel and cap will be provided.

**ELECTRIC TANK TO PUMP VALVE**

- An electric 3" tank to pump valve will be installed. The pump inlet will be connected with a victaulic coupling.
- The entire intake system will be 3".

**PLUMBING**

All plumbing and KC nipples will be schedule 40 welded stainless steel. There will be victaulic couplings to allow ease of repair.

### **FRONT TURRET**

- There will be an Elkhart Model 5000-14 Sidewinder Wildland discharge turret mounted on the front of the vehicle. It will be installed so that it does not interfere with the opening of the hood.
- It will have a remote control joystick that will be mounted inside the cab that will control turret operations.
- Control of water flow shall be via an electronically controlled valve.
- It shall be supplied with a 95 gpm electronically operated nozzle.

### **SWEEP NOZZLES**

- Two (2) spray nozzles will be installed (one each side) under the front bumper. They will be independently controlled from inside the cab. Each nozzle will have a separate electrically operated control valve.
- Each valve will have a protective cage surrounding it to protect it from obstacles.
- The flow rate will be approximately 15-20 gpm. They will be threaded with NPT and machined from one piece of aluminum or brass stock.

### **PUMP CONTROLS**

- The pump will be controlled at two (2) locations: one (1) control panel at the passenger's side rear of the body, and one (1) inside the cab, in the center console.
- The rear controls will have pressure gauge, a suction gauge, a tachometer, oil and temp lights, primer, foam controls, tank to pump control, water and foam level lights, throttle, starter, and a light.
- The cab controls will have a pressure gauge, a tachometer, oil and temp lights, foam control switch (on/off), tank to pump control, water and foam level lights, throttle, starter, and a flexible mount light.
- All controls will be labeled with permanent labels.

### **CENTER CONSOLE**

A 1/8" aluminum center console will be constructed between the front seats. It will contain the pump controls, monitor controls, sweep nozzles, department supplied radio, siren controller, emergency light switches, two Survivor flashlights, and a flexible light.

### **DRAINS**

The pump will be equipped with a drain system to drain the water pump and the discharge plumbing from their lowest points. It will be controlled at the pump.

### **PUMP MANUALS**

One (1) copy of operation and maintenance manuals will be provided to the purchaser with the unit. Manuals will include detailed instructions in the operation and maintenance of the overall modular pump unit, engine, and water pump.

### **ELECTRICAL**

Wiring and battery cables are run the length of the body in 1" tubing welded to the underside of the body. All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run in loom or 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:

- (1) The only hole made in the roof will be for customer requested antennas. It will be caulked with silicon.
- (2) 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 is defined as any location outside of the cab or body.

(3) 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. 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.

(4) 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).

(5) All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.

(6) All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches will be mounted on a separate panel installed in the cab. A master warning light switch and individual switches will be provided to allow preselection of emergency lights. The light switches will be "rocker" type with an internal indicator light to show when switch is energized. All switches will be properly identified and mounted in a removable panel for ease in servicing.

Identification of the switches will be done by either printing or etching on the switch panel. The switches and identification will be illuminated.

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.

#### **IN SERVICE/OUT of SERVICE SYSTEM**

- A sealed box containing five (5) 20 amp circuit breakers will be installed behind the driver's seat. The box will include a single ground stud.

- The breakers will be for all SAFD installed equipment (radios, computers, etc).

- There system will be supplied 12 volt power via a 50 amp solenoid with remote armored switch mounted under the left side (drivers) dash. The switch and the box will both be labeled "IN SERVICE/OUT of SERVICE SYSTEM".

#### **ELECTRONIC SIREN**

A Whelen, Model: 295SLSA1, electronic siren with noise canceling microphone shall be provided.

Siren head will be mounted low on the front dash in easy reach of the driver.

#### **SPEAKERS**

There shall be two (2) Whelen, Model SA314A, 100-watt, with natural aluminum finish speakers installed on the grill guard plate.

#### **STEP LIGHTS**

Two (2) Weldon, clear step lights will be provided in rear pump area.

#### **REAR FMVSS LIGHTING**

- The rear stop/tail and directional LED lighting will consist of the following:

- Two (2) Weldon red LED round stop/tail/turn lights.

- Two (2) Weldon halogen backup lights.
- All lights will be placed on the rear skirt of the apparatus.
- Four (4) red reflectors will be placed on the lower-rear body of the apparatus on the rear corners.
- A Weldon, Model 23882-2600-00, license plate bracket will be mounted on the driver's side above the warning lights. A Weldon, Model 9186-23882-30, step lamp will illuminate the license plate.
- The three (3) identification lights located at the rear will be installed per the following:
  - Truck-Lite, round, recessed, LED
  - As close as practical to the vertical centerline.
  - Centers spaced not less than six (6) inches or more than twelve (12) inches apart.
  - Red in color.
  - All at the same height.
- The four (4) clearance lights located at the rear will be installed per the following:
  - Truck-Lite, round, recessed 35, LED
  - To indicate the overall width of the vehicle.
  - One (1) each side of the vertical centerline.
  - All at the same height.
  - As near the top as practical.
  - To be visible from the rear and the side.
    - One (1) each side, facing the side.
    - One (1) each side, facing the rear.
- Per FMVSS 108 and CMVSS 108 requirements.
- All marker lights will be round, recessed, LED.

#### **PERIMETER SCENE LIGHTS, CAB AND BODY**

There will be four (4) Truck-Lite, model 40003, 4.00" grommet mount weatherproof light provided, one (1) for each cab door, and two (2) under the tailboard. Lighting will be designed to provide illumination on cab area, which will be activated automatically when the exit doors are opened, by the door jam switch and by the same means as the body perimeter lights. All perimeter lighting will activate when the parking brake is applied.

#### **COMPARTMENT LIGHTS**

There will be four (4) LED high intensity 4" round compartment lights installed, one (1) in each compartment.

#### **WARNING LIGHT**

- A Whelen Justice lightbar shall be mounted in front of the headache rack within the protection area of the headache rack.
- The length of the lightbar shall be 50". All the lenses shall be clear.
- The lightbar shall include the following:
  - Four (4) red flashing forward facing LED modules.
  - Two (2) clear flashing forward facing LED modules.
  - Two (2) red flashing front corner LED modules.
  - One (1) red flashing driver side facing LED module.
  - One (1) red flashing officer side facing LED module.
- One (1) switch located in the cab, on the switch panel, shall control this lightbar.

#### **LIGHT BAR SHROUD**

A custom ¼" x 1" aluminum shroud will be fabricated for the light bar.

#### **FRONT WARNING LIGHTS**

- Two (2) Whelen 700 Series, Model 70\*02F\*R Super-LED flashing lights shall be provided in the front bumper, one (1) side.
- The color of these lights shall be red.
- The lights will be controlled by a single rocker switch on the siren control panel.

#### **SIDE WARNING LIGHTING**

- Six (6) Whelen 700 Series, Model 70\*02F\*R Super-LED® flashing lights shall be provided in the following positions.
  - Front bumper extension, one (1) each side.
  - Rear cross hand-rails one (1) each side.
  - Rear of body, low, one (1) each side.
- The color of these lights shall be **red**.
- The lights will be controlled by a single rocker switch on the siren control panel.

#### **REAR WARNING LIGHTING**

- Four (4) Whelen 700 Series, Model 70\*02F\*R, Super-LED® warning lights shall be located at the rear of the apparatus.
- Two (2) upper lights shall be RED.
- Two (2) lower lights shall be AMBER.

#### **HEADLIGHT FLASHER**

- The high beam headlights will flash alternately between the left and right side, with a control switch located on the cab instrument panel in the center console.
- The flash mode will automatically cancel when the parking brake is set.

#### **OFF ROAD LIGHTS**

There will be two (2) 7" HID off road lights mounted in the front bumper.

#### **SCENE LIGHTS**

There will be six (6) high intensity LED scene lights installed on the body. Two (2) will be mounted at the upper corners of the body each side and two (2) on mounted at the upper corners of the rear of the upper body. They will be switched as follows:

- "LEFT SCENE"
- "RIGHT SCENE"
- "REAR SCENE"

#### **BACK UP ALARM**

Federal back up alarm will be installed on the rear of the apparatus.

#### **CAMERA/MONITOR**

A Rear View Safety MIS-770614 color monitor will be mounted on the dash board of the cab. It will be wired to two (2) color cameras. One (1) camera will observe the area in front of the chassis and one (1) will observe the ground behind the body.

#### **FLASHLIGHTS**

- Two (2) Streamlight Litebox flashlights with chargers will be mounted inside the driver's side vertical compartment.
- Two (2) Streamlight Survivor LED flashlights with chargers will be mounted on the rear of the center console inside the cab. They will be wired to the "IN SERVICE" switch.

#### **REFLECTIVE BAND**

- A 4.00" reflective band will be provided across the front of the vehicle. A 4" white stripe will be placed along the side of the cab. A 4.00" band will also be provided at the rear of the apparatus.
- The reflective band provided on the cab will be between the front grille and the front bumper.

#### **LETTERING**

The following graphics will be supplied and installed:

- SAFD shields (3)
- "KEEP BACK 500 FEET", 4" gold reflective
- "NWCG TYPE 5 ENGINE", 2" gold reflective, both sides of hood
- "SAFD", 4" gold reflective, front of hood

#### **FRONT BUMPER STRIPING**

There shall be alternating chevron striping located on the front bumper of the apparatus. The striping shall consist of 4" diamond grade striping in the following colors:

- The first color shall be red diamond grade
- The second color shall be lime yellow diamond grade

#### **REAR SKIRT STRIPING**

There shall be alternating chevron striping located on the rear skirt of the apparatus. The striping shall consist of 4" diamond grade striping in the following colors:

- The first color shall be red diamond grade
- The second color shall be lime yellow diamond grade

#### **PAINT**

- The cab will be painted in **RED** unless otherwise directed by the purchaser.
- Body structures will be painted **RED**.

#### **SPANNER WRENCH SET**

A spanner wrench set will be provided and mounted on the rear side of the driver's side compartment in front of the hose reel.

#### **MOUNTED EQUIPMENT**

The following equipment will be mounted using PAC brackets at the direction of SAFD:

- Drip Torch with mounting bracket
- Pick Head Axe
- Polaski
- Wheel Clock/Holder
- Nozzle .75"
- Nozzle 1"
- Nozzle 1.5"
- Forestry Hose .75" x 300'
- Forestry Hose 1" x 300'
- Forestry Hose 1.5 x 300'
- .75" x 1.5" Adapter
- 1"x1.5" Adapter
- 2" x 8' x2" Hard suction drafting hose
- 2.5" suction strainer

#### **WARRANTIES**

- The overall chassis warranty\*: 1 year/unlimited mileage
- Engine warranty\*: 2 years/unlimited mileage
- Transmission warranty\*: 2 years/unlimited mileage
- Rear Axle warranty\*: 2 years/unlimited mileage

\*All chassis related warranty issues will be covered by Philpott

- Tank: Lifetime warranty
- Pump: Hale, two years parts and labor
- Body Bed Substructure: Body Mfg., Five (5) years
- Body, electrical, paint, plumbing, package: Body Mfg., 1 year unless exceeded by component manufacturer

IV. PRICE SCHEDULE

ITEM	QUANTITY	DESCRIPTION
1	2 Each	Wildland Fire Engine/Brush Trucks (Two Door), NWCG Type V 19,500 GVW Off Road Fire Apparatus
A.	\$ <u>38155.14</u>	Price Each – Cab & Chassis
B.	\$ <u>75,531.00</u>	Price Each – Bodies
C.	\$ <u>113686.14</u>	Grand Total (Complete for two (2) Units)
E.	\$ _____	Price Each – Diagnostic Software (If applicable)

**OFFEROR MUST FILL IN THE FOLLOWING:**

- A) YEAR, MAKE & MODEL CAB & CHASSIS:  
2011 FORD F-550 4X4
- B) SPECIFIC MAKE & MODEL OF TRANSMISSION OFFERED:  
FORD Torqshift 6Spd select shift Automatic
- C) SPECIFIC MAKE & MODEL OF ENGINE OFFERED (INCLUDE SAE NET HP):  
FORD 6.7L V8 Diesel 400 HP
- D) MAKE & MODEL BODY:  
Siddons Fire Apparatus

SPECIFIC MAKE & MODEL OF ENGINE OFFERED (INCLUDE SAE NET HP):

DELIVERY: Delivery will be made within 120 calendar days after receipt of purchase order  
(Deliveries must be made within 180 days.)

INDICATE THE LAST DAY THAT THE CITY CAN PLACE ORDERS UNDER THIS CONTRACT WITHOUT MISSING THE PRODUCTION CUT OFF DATE: 2012 Model year change

BID PRICES SHALL REMAIN FIRM FOR ALL ORDERS PLACED PRIOR TO THIS CUT OFF DATE.

IN THE EVENT THAT CITY DOES NOT AWARD A CONTRACT PRIOR TO PRODUCTION CUT OFF DATE, CAN BIDDER PROVIDE BID ITEMS, AT THE BID PRICE SUBMITTED, AFTER PRODUCTION CUT OFF DATE? Must Rebid New Model

ITEM	QUANTITY	DESCRIPTION
2	1 Each	Wildland Fire Engine/Brush Truck (Four Door), NWCG Type V 19,500 GVW Off Road Fire Apparatus
A.	\$ <u>40882.14</u>	Price Each – Cab & Chassis
B.	\$ <u>75531.00</u>	Price Each – Bodies
C.	\$ <u>116413.14</u>	Grand Total (Complete for Unit)
E.	\$ _____	Price Each – Diagnostic Software (If applicable)

**OFFEROR MUST FILL IN THE FOLLOWING:**

A) YEAR, MAKE & MODEL CAB & CHASSIS:

2011 Ford F-550 4x4 Crew Cab

B) SPECIFIC MAKE & MODEL OF TRANSMISSION OFFERED:

Ford Torq Shift 6spd. Select Shift Automatic

C) SPECIFIC MAKE & MODEL OF ENGINE OFFERED (INCLUDE SAE NET HP):

FORD 6.7 L V8 Diesel 400 HP

D) MAKE & MODEL BODY:

Siddans Fire Apparatus

SPECIFIC MAKE & MODEL OF ENGINE OFFERED (INCLUDE SAE NET HP):

DELIVERY: Delivery will be made within 120 calendar days after receipt of purchase order  
(Deliveries must be made within 180 days.)

INDICATE THE LAST DAY THAT THE CITY CAN PLACE ORDERS UNDER THIS CONTRACT WITHOUT MISSING THE PRODUCTION CUT OFF DATE: 2012 Model year  
BID PRICES SHALL REMAIN FIRM FOR ALL ORDERS PLACED PRIOR TO THIS CUT OFF DATE.

IN THE EVENT THAT CITY DOES NOT AWARD A CONTRACT PRIOR TO PRODUCTION CUT OFF DATE, CAN BIDDER PROVIDE BID ITEMS, AT THE BID PRICE SUBMITTED, AFTER PRODUCTION CUT OFF DATE? Re Bid New Model

ITEM	QUANTITY	DESCRIPTION	
3	1 Each	Buyboard Fee	\$ <u>400</u>

**Statement:**

“Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that persons, or their agents, who seek to contract for the sale or purchase of property, goods, or services with the City, shall file a completed conflict of interest questionnaire with the City Clerk not later than the 7<sup>th</sup> business day after the date that the person: (1) begins contract discussions or negotiations with the City; or (2) submits to the City an application, response to a request for proposals or bids, correspondence, or another writing related to a potential agreement with the City. The conflict of interest questionnaire form is available from the Texas Ethics Commission at [www.ethics.state.tx.us/forms/CIQ.pdf](http://www.ethics.state.tx.us/forms/CIQ.pdf). Completed conflict of interest questionnaires may be mailed or delivered by hand to the Office of the City Clerk. If mailing a completed conflict of interest questionnaire, mail to: Office of the City Clerk, P.O. Box 839966, San Antonio, TX 78283-3966. If delivering a completed conflict of interest questionnaire, deliver to: Office of the City Clerk, City Hall, 2<sup>nd</sup> floor, 100 Military Plaza, San Antonio, TX 78205.”

**IMPORTANT MAILING INSTRUCTIONS:**

**MAIL TO:** CITY OF SAN ANTONIO  
PURCHASING & GENERAL SERVICES  
P.O. BOX 839966  
SAN ANTONIO, TX 78283-3966

**PHYSICAL ADDRESS:** PURCHASING & GENERAL SERVICES  
111 SOLEDAD, 11TH FLOOR  
SAN ANTONIO, TEXAS 78205

**REMARKS:**

CITY OF SAN ANTONIO PURCHASING & GENERAL SERVICES DEPT.

Issued By: DDG, CITY CONTRACT NO. 10-109  
COOPERATIVE CONTRACT NO.: 281-07 and 323-09  
PROCURING ENTITY/COOPERATIVE: Buyboard

Date Issued: August 31, 2010

Page 1 of 27

TERMS & CONDITIONS FOR CONTRACT FOR  
WILDLAND FIRE ENGINE/BRUSH TRUCKS

PLEASE REVIEW THE TERMS AND CONDITIONS FOR THIS REQUEST AND  
PROVIDE YOUR OFFER NO LATER THAN 12:00 PM, September 2, 2010

**Contract Documents:** The terms and conditions for performance and payment of compensation for this contract are set forth in the following contract documents, true and correct copies of which are attached hereto and fully incorporated herein for all purposes:

- a. This Terms and Conditions Document;
- b. Any Purchase Orders Issued hereunder by the City of San Antonio ("City"); and
- c. Exhibit I – All applicable terms and conditions of Contract # 281-07 and 323-09, procured by Texas Local Government Purchasing Cooperative and made available to local governmental entities through the Buyboard.

Should a conflict arise among the provisions of the contract documents, this Terms and Conditions Document and any Purchase Order issued hereunder shall govern over Exhibit I, unless otherwise specifically provided herein.

This Terms & Conditions Document includes the following: General Terms and Conditions, Product Specifications and Description of Services, Price Schedule, any Attachments identified herein

The City's Purchasing and General Services Department is willing to assist any vendor(s) in the interpretation of this Terms and Conditions Document. Assistance may be received by visiting the Purchasing Office at 111 Soledad, 11th Floor, San Antonio, Texas 78205, or by calling (210) 207-7260.

The undersigned, by his/her signature, represents that he/she is authorized to bind the Vendor to fully comply with the contract for the amount(s) shown on the accompanying Price Schedule. A signature below indicates that the Vendor has read the entire document, which is incorporated herein, and agreed to the terms therein.

**Cab and Chassis Vendor: Freightliner of San Antonio, Ltd.**

Signer's Name: Mike Crockett Firm Name: Freightliner of San Antonio, Ltd.  
 (Please Print or Type)  
[Signature] Address: 8700 IH 10 East  
 Signature of Person Authorized to Sign Offer City, State, Zip Code Converse, Tx. 78109  
 Email Address: mcrockett@ofuskane.com Telephone No.: (210) 277-4373  
 Fax No.: (210) 661-0289

**Body Vendor: Siddons Fire Apparatus**

FOR CITY USE ONLY

AWARD

Items Accepted:	Ordinance No:	Date:	Amount:
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Approved: \_\_\_\_\_

CITY OF SAN ANTONIO

Signer's Name: CORBIN STRONG Firm Name: SIDDONS FIRE APPARATUS  
 (Please Print or Type)  
Corbin Strong Address: PO BOX 2461  
 Signature of Person Authorized to Sign Offer City, State, Zip Code: HOUSTON TX 77252  
 Email Address: \_\_\_\_\_ Telephone No.: 281.219.1920  
CORBIN@SIDDONSFIRE.COM Fax No.: 281.219.2560

Please complete the following:  
 Prompt Payment Discount:      %      days. (If no discount is offered, Net 30 will apply.)

Please check the following blanks which apply to your company:  
 Ownership of firm (51% or more):  
 Non-minority  Hispanic  African-American  Other Minority (specify) \_\_\_\_\_  
 Female Owned  Handicapped Owned  Small Business (less than \$1 million annual receipts or 100 employees)  
 Indicate Status:  Partnership  Corporation  Sole Proprietorship  Other (specify) \_\_\_\_\_  
 Tax Identification Number: 76-0572301

Signer's Name: \_\_\_\_\_ Firm Name: \_\_\_\_\_  
(Please Print or Type)

Address: \_\_\_\_\_

Signature of Person Authorized to Sign Offer \_\_\_\_\_ City, State, Zip Code: \_\_\_\_\_

Email Address: \_\_\_\_\_ Telephone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

Please complete the following:

Prompt Payment Discount:    %    days. (If no discount is offered, Net 30 will apply.)

Please check the following blanks which apply to your company:

Ownership of firm (51% or more):

Non-minority  Hispanic  African-American  Other Minority (specify) \_\_\_\_\_

Female Owned  Handicapped Owned  Small Business (less than \$1 million annual receipts or 100 employees)

Indicate Status:  Partnership  Corporation  Sole Proprietorship  Other (specify) \_\_\_\_\_

Tax Identification Number: 74-2839297

## I. GENERAL TERMS AND CONDITIONS

1. The terms "bidder", "contractor", and "vendor" all mean the party providing goods or services to the City pursuant to this contract.
2. **Rejection of Disclaimers of Warranties & Limitations of Liability.** Any term or condition in Exhibit I, or any document furnished by Vendor, disclaiming the implied warranty of merchantability or of fitness for a particular purpose, or attempting to limit Vendor's liability shall be of no force or effect, and shall be stricken from the contract documents as if never contained therein.
3. **Acceptance of Offer.** By signing and submitting this document, Vendor is making an offer to City. A written award of acceptance (manifested by a City Ordinance) and appropriation or purchase order mailed or otherwise furnished to the Vendor results in a binding contract without further action by either party.
4. Vendors shall make all investigations necessary to thoroughly inform themselves regarding plant and facilities for delivery of material and equipment as required by the contract documents. No plea of ignorance by the vendor of conditions that exist or that may hereafter exist as a result of failure or omission on the part of the vendor to make the necessary examinations and investigations, or failure to fulfill in every detail the requirements of the contract documents, will be accepted as a basis for varying the requirements of the City or the compensation to the vendor.
5. **Taxes.** Vendor shall not include federal taxes nor State of Texas limited sales excise and use taxes in prices, since the City of San Antonio is exempt from payment of such taxes. An exemption certificate will be signed by City where applicable upon request by Vendor.
6. **Point of Destination.** All goods, materials and equipment shall be delivered FOB Destination, City of San Antonio's designated facility, or to the "ship to" address indicated on the purchase order, inside delivery. Regardless of shipping terms used, title and risk of loss shall pass to City only upon receipt at City's "ship to" address.
7. **Delivery Times.** Proposed delivery time must be shown and shall include weekends and holidays, unless specified otherwise herein.
8. **Failure to Meet Delivery Schedule.** When delivery is not met as provided for in the contract, the Purchasing and General Services Department reserves the right to make the purchase on the open market, with any cost in excess of the contract price paid by the vendor, in addition to any other damages, direct, indirect, consequential, or incidental incurred by the City as a result thereof.
9. **Acceptance By City.** The City shall have a reasonable time (but not less than 30 days) after receipt to inspect the goods and services tendered by Vendor. The City at its option may reject all or any portion of such goods or services which do not, in City's sole discretion, comply in every respect with all terms and conditions of the contract. The City may elect to reject the entire goods and services tendered even if only a portion thereof is nonconforming. If the City elects to accept nonconforming goods and services, the City, in addition to its other remedies, shall be entitled to deduct a reasonable amount from the price thereof to compensate the City for the nonconformity. Any acceptance by the City, even if non-conditional, shall not be deemed a waiver or settlement of any defect in such goods and services.
10. **Warranty.** Unless a specific warranty is provided elsewhere in these contract documents, the supplies or services furnished under this contract shall be covered by the most favorable commercial warranties given to any customer for same or similar supplies or services.
11. **Change Orders.** In order to comply with Texas law governing purchases made by municipalities, the follow rules shall govern all change orders made under this contract.

- (a) Any change orders that become necessary during the term of this contract as a result of changes in plans, specifications, quantity of work to be performed, materials, equipment or supplies to be furnished may be approved by the Director of Purchasing and General Services Department ("Purchasing Director"), or her designee, provided that such change orders:
  - (1) are made in writing, signed by the Purchasing Director or her designee;
  - (2) do not involve an increase or decrease in contract price of more than \$25,000; and
  - (3) sufficient funds have already been allocated by City or are available to the Purchasing Director to cover any increase in contract price.
- (b) Any other change will require approval of the City Council, City of San Antonio.
- (c) Changes that do not involve an increase in contract price may, however, be made by the Purchasing Director.

12. Contract Termination

TERMINATION-BREACH:

- (a) Should Vendor fail to fulfill in a timely and proper manner, as determined solely by the Director of Purchasing and General Services, its obligations under this contract, or violate any of the material terms of this contract, the City shall have the right to immediately terminate the contract. Notice of termination shall be provided in writing to the contractor, effective upon the date set forth in the notice. Such termination shall not relieve the vendor of any liability to the City for damages sustained by virtue of any breach by the vendor.

TERMINATION-NOTICE:

- (b) The City may cancel this contract for convenience upon ten days prior written notice.

TERMINATION-FUNDING:

- (c) City retains the right to terminate this contract at the expiration of each of City's budget periods. This contract is conditioned on a best efforts attempt by City to obtain and appropriate funds for payment of any debt due by City herein.

13. INDEMNIFICATION

**VENDOR covenants and agrees to FULLY INDEMNIFY, DEFEND and HOLD HARMLESS, the CITY and the elected officials, employees, officers, directors, volunteers and representatives of the CITY, individually and collectively, from and against any and all costs, claims, liens, damages, losses, expenses, fees, fines, penalties, proceedings, actions, demands, causes of action, liability and suits of any kind and nature, including but not limited to, personal or bodily injury, death and property damage, made upon the CITY directly or indirectly arising out of, resulting from or related to VENDOR'S activities under this Agreement, including any acts or omissions of VENDOR, any agent, officer, director, representative, employee, consultant or subcontractor of VENDOR, and their respective officers, agents employees, directors and representatives while in the exercise of the rights or performance of the duties under this Agreement. The indemnity provided for in this paragraph shall not apply to any liability resulting from the negligence of CITY, its officers or employees, in instances where such negligence causes personal injury, death, or property damage. IN THE EVENT VENDOR AND CITY ARE FOUND JOINTLY LIABLE BY A COURT OF COMPETENT JURISDICTION, LIABILITY SHALL BE APPORTIONED COMPARATIVELY IN ACCORDANCE WITH THE LAWS FOR THE STATE OF TEXAS, WITHOUT, HOWEVER, WAIVING ANY GOVERNMENTAL IMMUNITY AVAILABLE TO THE CITY UNDER TEXAS LAW AND WITHOUT WAIVING ANY DEFENSES OF THE PARTIES UNDER TEXAS LAW.**

The provisions of this INDEMNITY are solely for the benefit of the parties hereto and not intended to create or grant any rights, contractual or otherwise, to any other person or entity. VENDOR shall advise the CITY in writing within 24 hours of any claim or demand against the CITY or VENDOR known to VENDOR related to or arising out of VENDOR's activities under this AGREEMENT and shall see to the investigation and defense of such claim or demand at VENDOR's cost. The CITY shall have the right, at its option and at its own expense, to participate in such defense without relieving VENDOR of any of its obligations under this paragraph.

14. Assignment and Subcontracting

- (a) Vendor shall not sell, assign, pledge, transfer or convey any interest in this contract, nor delegate the performance of any duties hereunder, by transfer, by subcontracting or any other means, without the consent of the Director of City's Purchasing and General Services Department. As a condition of such consent, if such consent is granted, Vendor shall remain liable for completion of the services outlined in this contract in the event of default by the successor vendor, assignee, transferee or subcontractor.
- (b) Any work or services approved for subcontracting hereunder shall be subcontracted only by written contract and, unless specific waiver is granted in writing by the City, shall be subject by its terms to each and every provision of this Contract. Compliance by subcontractors with this contract shall be the responsibility of Vendor. City shall in no event be obligated to any third party, including any subcontractor of Vendor, for performance of services or payment of fees.
- (c) Any attempt to transfer, pledge or otherwise assign this contract without said written approval, shall be void ab initio, and shall confer no rights upon any third person. Should Vendor assign, transfer, convey, delegate, or otherwise dispose of any part of all or any part of its right, title or interest in this contract, City may, at its option, cancel this contract and all rights, titles and interest of Vendor shall thereupon cease and terminate, notwithstanding any other remedy available to City. The violation of this provision by Vendor shall in no event release Vendor from any obligation under the terms of this contract, nor shall it relieve or release Vendor from the payment of any damages to City, which City sustains as a result of such violation.

15. Independent Contractor. Vendor covenants and agrees that it is an independent contractor and not an officer, agent, servant or employee of City. City shall not be liable for any claims which may be asserted by any third party occurring in connection with the services to be performed by the vendor under this contract and that the vendor has no authority to bind the City.

16. Patents/Copyrights. The Vendor agrees to indemnify and hold the City harmless from any claim involving patent infringement or copyrights on goods supplied.

17. Public Information Act. Vendor is advised that all City contracts are subject to all legal requirements provided for in the City Charter and/or applicable City Ordinances, state and federal statutes. All contracts are subject to the Public Information Act, Texas Government Code Chapter 552; therefore Vendor must clearly indicate any portion of the contract documents that Vendor claims is not subject to public inspection under the Public Information Act.

18. Conflict of Interest. No officer or employee of the City shall have a financial interest, direct or indirect, in any contract with the City, or shall benefit financially, directly or indirectly, in the sale to the City of any materials, supplies or services, except on behalf of the City as an officer or employee. This prohibition extends to the City Public Service Board, San Antonio Water System, and all City boards and commissions other than those which are purely advisory. In this instance a City employee is defined as any employee of the City who is required to file a financial involvement report pursuant to the City's ethics ordinance.

19. Severability. If any clause or provision of this contract is held invalid, illegal or unenforceable under present or future federal, state or local laws, including but not limited to the City Charter, City Code, or ordinances of the City of San Antonio, Texas, then and in that event it is the intention of the parties hereto that such invalidity, illegality or unenforceability shall not affect any other clause or provision hereof and that the remainder of this contract shall be

construed as if such invalid, illegal or unenforceable clause or provision was never contained herein; it is also the intention of the parties hereto that in lieu of each clause or provision of this contract that is invalid, illegal, or unenforceable, there be added as a part of the contract a clause or provision as similar in terms to such invalid, illegal or unenforceable clause or provision as may be possible, legal, valid and enforceable.

20. Nonwaiver of Performance. Unless otherwise specifically provided for in this contract, a waiver by either Party of a breach of any of the terms, conditions, covenants or guarantees of this contract shall not be construed or held to be a waiver of any succeeding or preceding breach of the same or any other term, condition, covenant or guarantee herein contained. Further, any failure of either Party to insist in any one or more cases upon the strict performance of any of the covenants of this contract, or to exercise any option herein contained, shall in no event be construed as a waiver or relinquishment for the future of such covenant or option.

21. Non-discrimination Policy. It is the City's policy that Small and/or Minority Business Enterprises shall have the maximum practicable opportunity to participate in the performance of public contracts. Vendor agrees that if this offer is accepted, he/she will not engage in employment practices which have the effect of discriminating against employees or prospective employees because of race, color, religion, national origin, sex, age, handicap or political belief or affiliation.

22. Compliance with Law. Vendor shall provide and perform all services required under this contract in compliance with all applicable federal, state and local laws, rules and regulations.

23. Venue. **Venue of any court action brought directly or indirectly by reason of this contract shall be in Bexar County, Texas. This contract is made and is to be performed in Bexar County, Texas, and is governed by the laws of the State of Texas.**

24. Entire Agreement. This contract, together with its authorizing ordinance and its attachments, purchase orders, and exhibits, if any, constitute the final and entire agreement between the parties hereto and contain all of the terms and conditions agreed upon. No other agreements, oral or otherwise, regarding the subject matter of this contract shall be deemed to exist or to bind the parties hereto, unless same be in writing, dated subsequent to the date hereto, and duly executed by the parties, in accordance with the Change Order provision herein.

25. Invoicing and Payment.

- (a) Address for Invoices. All invoices must be sent to: City of San Antonio, Attn: Accounts Payable, P.O. Box 839976, San Antonio, Texas 78283-3976.
- (b) Information Required On Invoice.

All invoices must be in a form and content approved by the City. City may require modification of invoices if necessary in order to satisfy City that all billing is proper and pursuant to the terms of the contract. Invoices are required to show each City Purchase Order Number. Invoices must be legible. Items billed on invoices must be specific as to applicable stock, manufacturer, catalog or part number (if any). All invoices must show unit prices for each item being billed, the quantity of items being billed and the total for each item, as well as the total for all items on the invoice. If prices are based on list prices basis, then the list prices, the percentage discount or percentage surcharge, net unit prices, extensions and net total prices must be shown. Prompt payment discounts offered shall be shown separately on the invoice.
- (c) Payment by City. City shall have not less than 30 days to pay for goods or services. Time for payment, including payment under discount terms, will be computed from the later of: (1) the date the City receives conforming goods under the contract; (2) the date performance of the service under the contract is completed; or (3) the date the City receives a correct and valid invoice for the goods or services. Payment is deemed to be made on the date of mailing of the check. Payment is made in US dollars only.

This provision shall not apply where there is a bona fide dispute between the City and Vendor about the goods delivered or the service performed that causes the payment to be late, or where the invoice is not mailed to the address provided herein.

The payment amount due on invoices may not be manually altered by City personnel. Once disputed items are reconciled, Vendor must submit a corrected invoice, or a credit memorandum for the disputed amount, or the item must be issued by the vendor. City will not make partial payments on an invoice where there is a dispute.

- (d) **NECESSITY OF TIMELY INVOICE / WAIVER OF PAYMENT.** NOTWITHSTANDING THE FORGOING, THE CITY CANNOT PAY FOR ANY GOODS OR SERVICES WITHOUT AN INVOICE. VENDOR MUST INVOICE CITY NO LATER THAN 90 CALENDAR DAYS FROM THE DATE GOODS ARE DELIVERED OR SERVICES RENDERED. FAILURE TO SUBMIT AN INVOICE WITHIN SAID 90 DAY SHALL NEGATE ANY LIABILITY ON THE PART OF CITY AND CONSTITUTE A WAIVER BY VENDOR OF ANY AND ALL RIGHT OR CLAIMS TO COLLECT MONEYS THAT VENDOR MAY RIGHTFULLY BE OTHERWISE ENTITLED TO FOR GOODS OR SERVICES PERFORMED.
- (e) The total price for all goods and/or services is shown on the Price Schedule. No additional fees or expenses of Vendor shall be charged by Vendor nor be payable by City. The parties hereby agree that all compensable expenses of Vendor are shown on the Price Schedule. If there is a discrepancy on the Price Schedule between the unit price for an item, and the extended price, the unit price shall govern.
- (f) Tax Exemption. The City of San Antonio is exempt from payment of federal taxes, and State of Texas limited sales excise and use taxes. Bidders must not include such taxes in bid prices. An exemption certificate will be signed by City where applicable upon request by bidder after contract award.
- (g) Prompt Payment Discount. Provided Bidder meets the requirements stated herein, City shall take Bidder's offered prompt payment discount into consideration in determining who the low bidder is. The evaluation will not be based on the discount percentage alone, but rather the net price as determined by applying the discount to the bid price, either per line item or total bid amount. However, the City reserves the right to reject a discount if the percentage is too low to be of value to the City, all things considered. The City may also reject a discount if the percentage is so high as to create an overly large disparity between the price City would pay if it is able to take advantage of the discount and the price City would pay if it were unable to pay within the discount period. City may always reject the discount and pay within the 30 day period, at City's sole option.

The City will not consider discounts that provide fewer than 10 days to pay in order to receive the discount.

For example, payment terms of 2% 5, Net 30 will NOT be considered in bid evaluations or in the payment of invoices. However, payment terms of 2% 10, Net 30 will result in a two percent reduction in the bid price during bid evaluation, and the City will take the 2% discount if the invoice is paid within the 10 day time period.

## II. PRODUCT SPECIFICATIONS & DESCRIPTION OF SERVICES

1. **Period of Contract.** This contract shall begin upon award by the San Antonio City Council by passage of an ordinance therefore, and terminate upon completion of all services described herein. Freightliner of San Antonio, Ltd. ("Freightliner"), shall deliver turnkey units to City no later than 180 calendar days after receipt of City's Purchase Order, unless extension is granted in writing by the City's Director of Purchasing and General Services, or her designee. Siddons Fire Apparatus, Inc. ("Siddons") shall complete its installation of body equipment and conversion no later than 60 calendar days after receipt of the Cab & Chassis from Freightliner, unless extension is granted in writing by the City's Director of Purchasing and General Services, or her designee.
2. **General Description of Scope & Services.**
  - (a) **Background:** The City of San Antonio is soliciting offers for three (3) Cab & Chassis from Freightliner, in accordance with the specifications listed herein. These vehicles shall be converted by Siddons, who shall add the 3 bodies in accordance with the specifications listed herein.
  - (b) **Turnkey Delivery.** The City desires a turnkey delivery for these Wildland Engine Fire/Brush Trucks (the "Trucks" or "Units" or "Vehicles"). However, since the cab and chassis and body are sold by different vendors pursuant to individual Buyboard contracts, the City requires the two vendors to work together to ensure the successful delivery of the final, turnkey Unit(s). By submitting an offer pursuant to this contract, each Vendor is accepting these terms and conditions, acknowledging interdependence with the other vendor, and agreeing that payment shall only be made once the final Unit is delivered to and accepted by the City. City shall have no responsibility to pay or perform until such time as a turnkey Unit is accepted by City.
  - (c) **Nature of Contract Document.** Due to the unique nature of this agreement, City is presenting this contract to both vendors for signature. It is understood by the parties that while many terms and conditions contained herein apply to both parties, some will, by their nature, be applicable to only one party. A party should disregard a provision that is inapplicable to that party. Should there be any doubt as to the applicability of a provision, same shall be resolved by City.
  - (d) **Responsibility of Vendors.** Freightliner shall be responsible for delivery of the completed trucks, with the bodies installed and operational. Freightliner shall be responsible for handling all title documents and invoicing and payment to Siddons. Freightliner shall be responsible for resolving any issues regarding the cab and chassis and body prior to final delivery. Freightliner shall be responsible for delivery of the cab & chassis to Siddons for installation of the body by Siddons. Freightliner shall be responsible for the completion of pre-delivery inspections.
  - (e) **Representations from the Body Vendor.** Body Vendor hereby represents:
    - 1) that it takes full responsibility for ensuring problem free installation of equipment and conversion of the cab and chassis and body; and
    - 2) that it shall coordinate and jointly take responsibility for any issues with conversion and installation of equipment prior to delivering the completed trucks to the City of San Antonio;
  - (f) **Representations from both vendors:**
    - 1) warranty Information: warranties will be serviced by the respective awarded vendor; and
    - 2) Vendor will perform training at a time mutually agreed upon by the City and Vendor pursuant to the section of this document entitled "Training".

- (g) **Damages for Delay:** The Parties agree that the actual damages that might be sustained by City by reason of the breach by Vendor of its covenant to make delivery within the timelines specified herein are uncertain and would be difficult of ascertainment, and that the sum of .25% of the item's purchase price (as set forth for the breaching vendor on the Price Schedule) per day for each day delivery is late would be a reasonable compensation for such breach. Vendor hereby promises to pay, and City hereby agrees to accept, such sum as liquidated damages, and not as a penalty, in the event of such breach. Furthermore, both Parties agree that City may withhold said liquidated damages from any payments due to the vendor causing the breach hereunder.
- (h) **Payment:** City will issue a Purchase Order for the full contract price for turnkey Units to Freightliner. Freightliner is responsible for invoicing City in full for all payments due for the turn key Trucks, including charges incurred for work performed by Siddons. Payment for the turnkey equipment will be made in full to Freightliner. Freightliner shall pay Siddons for Siddons' portion of the turnkey Vehicle. City shall have no obligation to pay Siddons directly. Siddons agrees to look solely to Freightliner for payment.

3. Additional Specifications.

A. The following general conditions will apply to all items within this bid unless specifically excluded within any item. Equipment shall be manufacturer's latest design, standard production model and shall have been manufactured within the last twelve (12) months. All components shall be installed new, unused, and shall be manufacturer's standard equipment unless otherwise specified or replaced herein. Equipment is to be inspected, serviced, and adjusted in accordance with manufacturer's recommended pre-delivery checklist, and ready for operation upon delivery. Manufacturer's Statement of Origin (MSO) showing manufacture within the last 12 calendar months, and completed pre-delivery checklists for chassis and body will be required at delivery. Equipment offered under the below listed specifications will be considered unacceptable if, for any reason, the equipment's, or major component's, long term availability on the U.S. market, or in the local area, is in doubt.

B. **Warranty and Parts** – Dealer and manufacturer must provide the maximum standard manufacture's warranty on all components parts and service included. All components, parts, and service are required to provide as a minimum **one year unlimited mileage/hour warranty**. All warranty times to start the date the vehicle is placed in service, not on the delivery date. The dealer will be notified by letter of the in-service date of each vehicle by serial number. Warranty will be fully explained by attaching separate, authenticated correspondence or entering such information in the remarks section of this bid. Warranty, reliability, and replacement captive parts costs and availability shall be a consideration in award of this bid. Bidders will certify that all repairs needed before and after the warranty period will be available from and by a factory-authorized dealer identified below (NO EXCEPTIONS) and within a ten (10) mile radius of Bexar county line. All warranty repairs will be completed within three (3) days from the date equipment is delivered to the vendor unless otherwise approved by the appropriate City of San Antonio maintenance superintendent.

LOCAL WARRANTY DEALER NAME: CAB & CHASSIS: Freightliner OF San Antonio, LTD

ADDRESS OF SERVICE CENTER: 8700 IH 10 East, Converse, Tx 78109

C. **Equipment Manuals** – Successful bidder to furnish one set of operator manuals covering all major components of the vehicle (cab, chassis, bodies, hydraulic loaders) for each unit delivered. Successful bidder shall also provide five (5) complete sets of operator and shop repair manuals or CD/DVDs for each item bid, to include all major components, or prepaid 8-year subscription to manufacturer's maintenance/parts web site at no cost to the City.

D. **Delivery** – All deliveries are to be made inside the City limits of San Antonio. Vendor must deliver equipment to Brooks City Base, 8220 Lindbergh Landing, Building 1106, San Antonio, TX 78235. Delivery to a non-specified location will result in non-acceptance of the equipment by the City. All deliveries must be pre-arranged with a minimum 24-hour notification, NO EXCEPTIONS. The Manufacturer's Statement of Origin (MSO) and an invoice are required upon delivery of each unit and before payment can be processed. Vehicles with more than 1000 miles

accumulated on the odometer will not be accepted. All vehicles are required to have a full tank of fuel. Vehicles to be delivered with current State Inspection Decal.

E. All accessories and equipment will be OEM. The manufacturer will rate all equipment provided as low emission.

F. Unit to be equipped at the factory with air conditioning, full headliner, fresh air heater and defroster units, minimum AM/FM OEM radio. All lights on cab and chassis and / or bodies are to be of light emitting diode (L.E.D.) type, except front turn signals.

G. Air Conditioning – Air conditioning with integral heater and defroster units supplied under this specification to be OEM installed and designed for use with R-134A refrigerant. System must be capable of maintaining a temperature inside the operator cab of 70° F or less with an ambient temperature of not less than 95° F with a relative humidity of not less than 90%. As a minimum, system must have a radiator-mounted condenser, 3-speed fan and variable thermostat. If radiator mounted condenser is not practical, remote mount must be approved by the Fleet Maintenance and Operations Manager before installation. Roof mounted units not acceptable. All air conditioner components to be compatible and recommended for end item.

H. Under this bid the left and right side is determined by sitting in the operator seat.

I. Unless otherwise specified under individual items, vehicles provided will have a minimum of a driver’s seat and one passenger seat.

J. For questions pertaining to technical specifications or questions regarding bidding procedures contact Dena Guevara at (210) 207-4046.

K. Under this bid, the City reserves the right to reject any bids and to waive irregularities and any requirements of the bid if deemed to be in the best interest of the City.

L. All units must be delivered to the City in a ready for service condition.

M. Transmission temperature gauge or light required on all automatic transmissions.

N. Maximum capacity cooling system offered by manufacturer.

O. Vehicles to be equipped with State Inspection Decal.

P. Transmission temperature gauge required on all automatic transmissions.

Q. Successful offeror or offeror’s subcontractor, whoever will be converting the turnkey unit, must hold a current Converter’s License pursuant to the State of Texas Department of Transportation guidelines for converting/mounting truck bodies on to truck cab & chassis and provide said proof of licensing upon request by the City of San Antonio. Failure to comply with the State of Texas laws regarding conversion may result in disqualification of the offer. Offerors will certify that all services needed to successfully converted the cab & chassis and body will be performed by a company who has met all the above mentioned licensing requirements and provide company’s information as follows:

DEALER NAME: Siddons Fire Apparatus  
ADDRESS: 5511 Binz Engleman, Kirby, Tx 78219

ITEM                      QUANTITY                      DESCRIPTION

1                      3 Each                      Wildland Fire Engine/Brush Trucks NWCG Type III 35,000 GVW Off Road

**CHASSIS**

The chassis will be a 2011 Freightliner M2 106V, extended cab configuration, four-wheel drive (4x4) supplied with the following specifications:

**DELIVERY & INFORMATION**

The apparatus will be delivered under its own power to insure proper break-in of all components while the apparatus is still under warranty. At the time of delivery, complete operation and maintenance manuals covering the apparatus will be provided.

**PERFORMANCE TESTS**

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than 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 vibration or noise.

**SEATING CAPACITY**

The seating capacity in the cab will be four (4).

**WHEELBASE**

The wheelbase of the vehicle will be 206", with a 108" cab to axle.

**GVW RATING**

The gross vehicle weight rating will be 35,000 GVWR (Limited by axles).

**FRAME**

- The frame rails will be single channel type 10 15/16" x 3 1/2" x 11/32", 120,000 psi heat treated.
- The frame will be extended 24" past the front chassis hood to accommodate the firefighting package.
- There will be front tow hooks installed.

**FRONT AXLE**

The front drive axle will be a MX-12-120 single reduction 12,000 pound capacity rating at the ground.

The ratio will be 5.13:1.

**FRONT SUSPENSION**

- Parabolic Leaf Spring Type
- Capacity at Ground: 12,000 pounds
- Shock Absorbers: Double acting, 1.375" gas-type
- Front Stabilizer Bar

Shock absorbers will be provided on the front axle.

**REAR AXLE**

- The rear axle will be a RS 23-160D single reduction and will have a ground rating capacity of 23,000 pounds.
- The ratio will be 5.13:1.
- There will be a driver controlled locking differential.

**REAR SUSPENSION**

- The rear suspension will be a Vari-rate leaf spring type, with a capacity at ground level of 23,000 lbs.
- There will be a 4,500 lbs capacity multi-leaf auxiliary pack.

- The rear stabilizer bar will be included.

#### **PARKING BRAKE**

The parking brake will be air type, and engage the rear brake chambers.

#### **ANTI-LOCK BRAKE SYSTEM**

The vehicle will be equipped with a Bendix anti-lock braking system. The four channel ABS system will provide anti-lock braking control on both the front and rear wheels. It is to be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel is to be monitored by the system. When any particular wheel begins to lockup, a signal is to 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.

#### **AIR BRAKES**

- The front and rear brakes will be drum type, with automatic slack adjusters.
- The compressor will be a Cummins 18.7 cm.
- There will be an automatic air drain valve installed.
- A Bendix AD-9 automatic air dryer will be installed.
- The air lines will be wire braid.

#### **ALL WHEEL DRIVE CONTROL**

The chassis will be equipped with an all wheel drive configuration.

#### **EXHAUST BRAKE**

The chassis will be equipped with an exhaust brake.

#### **ENGINE**

- Model: Cummins ISC turbocharged Diesel, Cast iron block and heads
- Number of Cylinders: Six (6), In line configuration
- Rated Brake Horsepower: 300 @ 2000 rpm
- Peak Torque: 860 at 1300 rpm
- Turbocharger
- Engine Exhaust Brake
- Block Heater

#### **ENGINE ACCESSORIES**

- Air Cleaner: Dry type, with restriction indicator in cab. Ember separator equipped.
- Governor: Limiting speed type
- Lube Oil Cooler
- Lube Oil Filter: Full flow
- Fuel Filter: Single fuel filter/water separator, heated
- Starting Motor: 12-volt
- Oil Fill and Level Gauge

#### **EMISSIONS SYSTEM**

A DPF (Diesel Particulate Filter) system will be encompassed in the exhaust system. The system is designed to significantly reduce engine emissions to be compliant with new EPA requirements. It will require periodic regeneration (stationary high idle operation) if minimum hi-way usage is encountered. Apparatus produced after 1-2010 may require the usage of urea to

meet manufacturer's requirements.

**CHASSIS WARRANTIES**

- The standard chassis, engine, and transmission warranty will apply.
- All chassis related warranty issues will be covered by Freightliner.

**RADIATOR**

- Pressurized System, Tube and Fin, 1200 sqr inch
- Anti-Freeze Protection to -40 degrees Fahrenheit

**EXHAUST SYSTEM**

The exhaust will be horizontal, and exit on the right side of the chassis, in front of the rear wheels.

**COOLANT LINES**

Hose clamps will be the "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.

**FUEL TANK**

- The fuel tank provided will be 70 gallon capacity and mounted on the left side of the chassis, under the right side of the cab. It will comply with all DOT regulations.
- An auxiliary fuel tap will be provided for the firefighting pump (if needed).

**TRANSMISSION**

The transmission will be an Allison EVS 3500 5 speed automatic with PTO provision and level sensor. It shall be rated at 330 hp, 985 ft lbs torque input.

The transmission will be limited to 5 speeds due to the 4x4 conversion.

**TRANSMISSION COOLER**

A transmission oil cooler will be provided. There will be a transmission temp gauge in the dash.

**TRANSFER CASE**

An electrically operated, Meritor MTC-4210 2 two (2) speed transfer case will be provided. It will be rated at 10,000 ft lbs.

**TRANSFER CASE COOLER**

A transfer case oil cooler will be provided.

**DRIVELINE**

The driveline will be a heavy duty metal tube type. A splined slip joint will be provided in each driveshaft.

**STEERING**

The steering will consist of a hydraulically driven steering system rated at 14,600 lbs.

**WHEELS**

- The front wheels will be steel 22.5x8.25 steel disc white e-coat, hub pilot mount. 7400lb max rating. 5 hole.
- The rear wheels will be steel 22.5x8.25 steel disc white e-coat, hub pilot mount. 7400lb max rating. 5 hole.
- There will be a total of 7.

**TIRES**

- The front tires will be Goodyear G177 385/65 12R22.5 H, rated at 9,370 lbs single.
- The rear tires will be Goodyear G177 385/65 12R22.5 H, rated at 9,370 lbs single.

**MUD FLAPS**

Mud flaps will be installed behind the front and rear wheels.

**CAB**

Type: Conventional, extended (engine forward)

Construction: Steel, Aluminum and Fiberglass

Interior: Deluxe

Accessories:

- Tinted Glass in all Windows
- Gray Vinyl Upholstery
- Black Rubber Floor Mats
- Dual Sun-Visors
- Electric Windshield Washer
- Two (2) speed Electric Windshield Wipers, with intermittent control
- Dome Light
- Air Conditioning
- Fresh Air Heater and Defroster
- Dual Electric Horns
- Gray Vinyl Upholstery

**HOOD**

The hood shall be fiberglass tilt, and have a chrome grille.

**CAB PAINT**

Chassis will be painted by RED from the bottom of cab windows down, and White from the bottom of the cab windows up.

The chassis and wheels will be painted job RED

**MIRRORS**

The mirrors will be stainless steel, powered electric, foldaway type. They will have two (2) auxiliary convex mirrors.

**AIR HORNS**

Dual Grover air horns will be installed. They shall be activated from the steering wheel center.

**RADIO**

An AM/FM/Weather band radio will be installed with two (2) speakers.

**SEATING**

- The driver's seat will be Bostrum Talladega High Back air ride high back.
- The passenger's seat will be Bostrum Talladega High Back air ride high back.
- The rear seats will be forward facing two (2) flip up jump seats.
- Shoulder belts will be installed for all positions.

**ENGINE COMPARTMENT LIGHT**

An engine compartment lights will be installed under the engine hood, of which the switches are an integral part.

**CAB INSTRUMENTATION**

Instrument panel controls and switches will be identified to function by imprinted word(s) adjacent to each item. Actuation of the headlight switch will illuminate ("back-lite") wording for after dark operation. Turn signal and high beam headlight indicator lights will also be provided.

To avoid confusion, warning indicators will be (where possible) the "dead front" type, meaning the warning light and word

identification of the same, does not show up unless it is necessary. The built-in emergency light switch panel will have a master switch plus individual switches for selective control.

Switches will be rocker type containing an indicator light, which is an integral part of the switch. Instrument panel gauges, vehicle lights and other electrical accessories will have proper size wiring to accommodate the expected current load. Wiring will meet SAE J-1128 specifications for high temperature (250 degrees Fahrenheit minimum) conditions and will be color, number and function coded.

Cab instruments and controls will be conveniently located within the forward cab section. Gauges and emergency vehicle switches will be installed on removable panels for ease of service. The following gauges and controls will be furnished:

**CAB INSTRUMENTS**

- Engine Temperature Gauge
- Engine Oil Pressure Gauge
- Speedometer
- Odometer
- Engine Tachometer
- Engine Hour Meter
- Fuel Level Gauge
- Voltmeter
- Air Restriction Indicator
- Air pressure gages

**EMERGENCY SWITCH PANEL**

An emergency switch panel will be provided in the cab.

**ENGINE HOUR METER**

The engine hour meter will be connected in a fashion to activate with the engine oil pressure or only while the engine is operating.

**BATTERY SYSTEM**

A single starting battery system will be provided consisting of two (2) 12 volt, 1100 CCA, maintenance-free, group 31 batteries. The battery system will have a total of 2200 CCA.

**MASTER BATTERY DISCONNECT**

An electronic solenoid will be incorporated into the ignition switch that cuts the electrical power to the body of the vehicle. The ignition switch must be on for the electric starter on the pump to work.

**ELECTRICAL SYSTEM**

Alternator: Leece-Neville Single 270 amps internally regulated or equal.

**EXTERIOR LIGHTING**

- Exterior lighting will meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at this time.
- Front headlights shall be halogen type and comply with all FMVSS requirements.
- Five (5) clearance/marker lights will be installed across the leading edge of the cab.

**BUMPER/GRILLE GUARD**

- A custom fabricated bumper will be used, and a hinged tubular grille guard built and mounted in front of the bumper. The bumper will be made of 6" channel steel, angled inward 25 degrees on the ends.
- A hinged tubular grille guard built and mounted in front of the bumper. It will be made of 2" round sch 40 steel, and conform to the bumper and hood. The grille guard will be hinged, and allow for the hood to be opened. A locking device will secure the grille when in the upright position.
- The bumper will be extended from the chassis enough to allow installation of the grille guard, and monitor.

#### **BODY STYLE**

The body will be a custom flatbed type constructed of steel and aluminum.

#### **BODY LENGTH**

The length of the body shell will be 96" wide and 168" from front to back, excluding bumpers, steps or other ancillary components. Individual compartment dimensions will be described within the text of each component.

#### **BODY FRAME**

The frame rails are 8" standard steel channel. The cross members are standard 3" steel channel, on 12" center. Upon completion, the frame is sand blasted, cleaned, primed and coated with black epoxy paint. The frame is covered with 1/8" Diamond Brite aluminum formed and welded to fit tight.

#### **ALUMINUM TREAD PLATE ON FRONT OF BODY**

The front sheet of the body will have Diamond Brite aluminum tread plate installed to provide top-to-bottom coverage.

#### **HEADACHE RACK**

There is a 2" steel tube headache rack that is primed and painted with sterling silver hard coat enamel. The rack includes mounts for the light bar and two work lights. Wiring for the lights will be placed inside the tubing for protection.

#### **PROTECTIVE RAILS**

All protective rails and hardware will be primed and painted with sterling silver hard coat enamel and welded to the steel frame.

#### **REAR SKIRT & BUMPER**

- A rear bumper/tailboard will be provided that is an integral part of the body substructure. The rear bumper will be covered with Diamond Brite aluminum tread plate. The rear skirt is constructed of smooth aluminum to accommodate reflective chevron striping.
- The bumper will be designed to maximize the angle of departure.

#### **REAR HITCH**

- A receiver hitch will be installed at the front and rear of the apparatus.
- The hitch will be constructed of heavy steel tubing and reinforced to the truck framework, for the receiving portion. This will be a Class III/IV trailer hitch. A class IV rating will be obtained only when a weight distributing hitch is used.
- A seven prong trailer wiring plug will be provided at the rear with a weatherproof snap cover.

#### **SIDE BODY COMPARTMENTS**

- Two (2) 1/8" aluminum diamond plate compartments will be mounted, one on each side of the body over the rear wheels. The dimensions of the compartments are approximately 18"W x 48"L x 24" H. The compartment floor will be lined with Turtle Tile.
- The compartments will be lockable.

#### **UNDER BODY COMPARTMENTS**

Two (2) lower body compartments will be installed. They will be located one (1) each side, two in front of the rear axle, and

two behind. They will have full length piano hinges, and a D Ring twist type latch. They shall be sweep-out design, and be water resistant. The approximate dimensions will be as large as possible for the space available.

#### **REAR BODY COMPARTMENT**

A rear compartment will be constructed of steel 8"H x 34"W x 96"L between the frame rails for suction hoses, pike poles, or ladders. There is a hinged drop door in the center of the rear skirt above the rear step with a single, stainless, half-turn twist-lock latch.

#### **TOOL BOX**

- An 1/8" thick Diamond Brite aluminum tool box will be mounted on the passenger's side above the compartment. The dimensions of the tool box are 16"W x 60"L x 9"H and will have a Diamond Brite aluminum cover, hinged, with a single, stainless, half-turn twist-lock latch. The tool box floor will be lined with Turtle Tile.
- The box can be used for storage of shovels, rakes, brooms, etc.

#### **PRE-CONNECT HOSE TRAY**

- A 1/8" thick Diamond Brite aluminum hose tray will be mounted on the driver's side above the compartment designed for rear unloading. The dimensions of the hose tray are 16"W x 48"L x 9"H and will have a Diamond Brite aluminum tray cover, hinged, with a single, stainless, half-turn twist-lock latch. The hose tray floor will be lined with Turtle Tile.
- The tray will house 200' of 1 3/4" hose with nozzle.

#### **BODY WARRANTY**

A five (5) year body warranty will be supplied.

#### **WATER TANK**

- Booster tank will have a capacity of 1000 gallons and be constructed of polypropylene plastic. Tank will be rectangular in shape and white in color. Tank joints and seams will be nitrogen welded inside and out. Tank will be baffled in accordance with NFPA Bulletin 1906 requirements. Baffles will have vent openings at both the top and bottom to permit movement of air and water between compartments. All partitions will interlock and will be welded to the tank bottom and sides.
- Tank top will be constructed of .50" polypropylene. Tank top will be sufficiently supported to keep it rigid during fast filling conditions.
- The fill tower will have stainless steel strainers. The overflow pipe extends through the tank from the fill tower through the bottom. A drain line and valve will be provided.
- Tank will be installed in a fabricated cradle assembly constructed of steel. It will be designed to support the tank when full of water. This substructure will extend to include a mounting structure for the pump and plumbing assembly.
- Mounting provisions will be provided to keep the tank in position while the vehicle is moving.

#### **WATER TANK SITE GAUGE**

A clear, water level, site gauge will be provided inside the water tank. The site gauge will be visible from the rear of the apparatus.

#### **FOAM TANK**

The foam tank will be an external part of the polypropylene water tank. The cell will have a capacity of 20 gallons of foam with the intended use of Class 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.

#### **TANK LEVEL GAUGES**

Four (4) LED tank level gauges will be installed. One (1) water and one (1) foam gauge will be installed in the rear pump panel, and the cab console.

**WATER TANK WARRANTY**

Tank will have a limited lifetime warranty from the tank manufacturer.

**DIESEL PUMP**

A Hale HPX 200BD 26 HP pump with the following:

**Pump Performance**

The pump/engine shall perform to the standards of ISO 9 and NFPA 1906 low-pressure pump rating. Typical pump performance from 4 foot (1.52 mt) draft at sea level using a 2.5in Suction line and a 2.5in discharge shall be: 60 GPM (227 ltpm) @ 150 PSI, 150GPM (567.8 ltpm) @ 100 PSI, and 245 GPM (927.42ltpm) @ 25 PSI.

**Pump**

The pump body shall be made of alloy aluminum castings coupled together with a stainless steel band clamp with an O-ring seal which allows quick pump volute removal for servicing. The pump end shall be factory hydrostatically tested to 350 PSI for 10 minutes. The impeller shall be bronze. The renewable clearance rings shall be made of anodic plated bronze to inhibit galvanic corrosion. The impeller shall be 4.87 inches (12.38 cm) in diameter and designed with a sleeve back end to prevent water from coming in contact with the engine shaft. The pump shaft seal shall be an automatically adjusting, maintenance free, mechanical type. The pump body shall be equipped with a petcock drain valve.

**Priming**

The pump shall be equipped with an exhaust venture primer of brass and stainless steel construction. The primer shall be capable of 20 inches of mercury vacuum. The primer shall be actuated with a spring return, single control lever located at the operator's panel.

**Discharge**

The discharge ports shall be female pipe thread, designed and located to accept applicable hose thread adapters installed so proper clearance is provided for spanner wrenches or adapters.

**Engine**

The engine shall be a 4 cycle diesel Briggs and Stratton Vanguard DM950D, overhead valve, water cooled design. Engine rating shall be 26 BHP. Engine displacement shall be designed to meet CARB (California Air Resources Board) standards. A 12-volt electric system shall be provided with electric starter and a 16amp alternator. Recoil backup engine starting shall be provided. Engine shall be equipped with a residential muffler with USDA approved spark arrestor.

**Mounting Platform**

The pump/engine shall be isolation mounted onto a steel base plate accessible from the rear of the body behind the tank.

**Ball Valves**

Valves will be R&W 5044F with a brass housing, stainless ball and Teflon seats.

**Instrumentation**

The pump shall be supplied with a control panel set up for easy viewing. This includes a throttle lever, primer control cable, master switch, starter button, choke control, a 2.5 inch liquid filled discharge gauge, light switch, hose reel button, and an oil pressure warning light.

**Piping and Manifolds**

All the piping and pump body attached manifolding shall be galvanized schedule 40.

**Tank Fill**

There shall be a 2.5" pump to tank fill stainless steel valve.

**Tank to Pump**

The tank to pump valve shall be 2.5" inline, installed between the water tank and the pump. The valve shall be a quarter turn ball type, fixed pivot design and be constructed of brass with a stainless steel ball.

**Gated Suction Connection**

The Gated Suction valve shall be 2.5" inline, with a 2.5" NST female coupling with a plug and chain.

**FOAM SYSTEM**

- A Waterous Aquis 1.5 Class A foam system will be installed on the discharge side of the pump. A ¼" turn ball valve will be located at the tank to cut off the foam. The foam cell will be located directly behind the pump on the outside of the tank.
- The foam system has been designed for simplicity of operation and maintenance. A flush system will be installed.
- There will be two (2) sets of controls for the foam system, one (1) on the pump panel at the rear of the body, and one (1) inside the cab in the center console.

**BOOSTER HOSE REEL**

- A Hannay, model SF24-23-24 electric rewind, booster hose reel will be installed at the rear of the apparatus on the driver's side. Reel rewind buttons to be provided at rear near water pump.
- Discharge control will be provided at the pump operator's location. Plumbing to the reel will consist of 1.00" Aeroquip hose and a 1.00" valve.
- Booster hose, 1.00" diameter and 150 feet, with Barway, or equal couplings will be provided. A Viper model number 1560 1" nozzle with pistol grip will be provided, and attached to a Red Head coupling.

**OUTLETS/INLET**

- A 1.5" combination tank refill and pump bypass line will be provided, using a quarter-turn full flow ball valve controlled from the pump
- One (1) 2 ½" discharge ball valves facing out the rear. A 2.5" NST female X 1.5" NST male chrome adapter will be supplied with a cap and chain.
- One (1) 2" discharge will be piped to the front of the chassis for supplying the monitor and sweep nozzles.
- One (1) 1.5" line with valve will supply the hose reel.
- One (1) 2" line with valve will supply the pre-connect tray.
- One (1) 2.5" suction inlet with a swivel and cap will be provided.

**ELECTRIC TANK TO PUMP VALVE**

- An electric 3" tank to pump valve will be installed. The pump inlet will be connected with a Victaulic coupling.
- The entire intake system will be 3".

**PLUMBING**

All plumbing and KC nipples will be schedule 40 welded stainless steel. There will be Victaulic couplings to allow ease of repair.

**PUMP CONTROLS**

- The pump will be controlled at two (2) locations: one (1) control panel at the passenger's side rear of the body, and one (1) inside the cab, in the center console.
- The rear controls will have pressure gauge, a suction gauge, a tachometer, oil and temp lights, primer, foam controls, tank to pump control, water and foam level lights, throttle, starter, and a light.
- The cab controls will have a pressure gauge, a tachometer, oil and temp lights, foam control switch (on/off), tank to pump control, water and foam level lights, throttle, starter, and a flexible mount light.
- All controls will be labeled with permanent labels.

**CENTER CONSOLE**

A 1/8" aluminum center console will be constructed between the front seats. It will contain the pump controls, monitor controls, sweep nozzles, department supplied radio, siren controller, emergency light switches, two Survivor flashlights, and a flexible light.

#### **FRONT TURRET**

- There will be an Elkhart Model 5000-14 Sidewinder Wildland discharge turret mounted on the front of the vehicle. It will be installed so that it does not interfere with the opening of the hood.
- It will have a remote control joystick that will be mounted inside the cab that will control turret operations.
- Control of water flow shall be via an electronically controlled valve.
- It shall be supplied with a 95 gpm electronically operated nozzle.

#### **SWEEP NOZZLES**

Two (2) spray nozzles will be installed (one each side) under the front bumper. They will be independently controlled from inside the cab. Each nozzle will have its own valve.

#### **DRAINS**

The pump will be equipped with a drain system to drain the water pump and the discharge plumbing from their lowest points. It will be controlled at the pump.

#### **PUMP MANUALS**

One (1) copy of operation and maintenance manuals will be provided to the purchaser with the unit. Manuals will include detailed instructions in the operation and maintenance of the overall modular pump unit, engine, and water pump.

#### **ELECTRICAL**

Wiring and battery cables are run the length of the body in 1" tubing welded to the underside of the body. All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run in loom or 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:

- (1) The only hole made in the roof will be for customer requested antennas. It will be caulked with silicon.
- (2) 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 is defined as any location outside of the cab or body.
- (3) 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. 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.
- (4) 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).
- (5) All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.
- (6) All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches will be mounted on a separate panel installed in the cab. A master warning light switch and individual switches will be provided to allow preselection of emergency lights. The light switches will be "rocker" type with an internal indicator light to show when switch is energized. All switches will be properly identified and mounted in a removable panel for ease in servicing.

Identification of the switches will be done by either printing or etching on the switch panel. The switches and identification will be illuminated.

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.

#### **IN SERVICE/OUT of SERVICE SYSTEM**

- A sealed box containing five (5) 20 amp circuit breakers will be installed behind the driver's seat. The box will include a single ground stud.
- The breakers will be for all SAFD installed equipment (radios, computers, etc).
- There system will be supplied 12 volt power via a 50 amp solenoid with remote armored switch mounted under the left side (drivers) dash. The switch and the box will both be labeled "IN SERVICE/OUT of SERVICE SYSTEM".

#### **ELECTRONIC SIREN**

- A Whelen, Model: 295SLSA1, electronic siren with noise canceling microphone shall be provided.
- Siren head will be mounted low on the front dash in easy reach of the driver.

#### **SPEAKERS**

There shall be two (2) Whelen, Model SA314A, 100-watt, with natural aluminum finish speakers installed on the front skid plate and behind the grill guard.

#### **STEP LIGHTS**

Two (2) Weldon, Model 9186-23882-30, clear step lights will be provided in rear pump area.

#### **REAR FMVSS LIGHTING**

- The rear stop/tail and directional LED lighting will consist of the following:
  - Two (2) Weldon red LED round stop/tail/turn lights.
  - Two (2) Weldon halogen backup lights.
- All lights will be placed on the rear skirt of the apparatus.
- Four (4) red reflectors will be placed on the lower-rear body of the apparatus on the rear corners.
- A Weldon, Model 23882-2600-00, license plate bracket will be mounted on the driver's side above the warning lights. A Weldon, Model 9186-23882-30, step lamp will illuminate the license plate.
  
- The three (3) identification lights located at the rear will be installed per the following:
  - Truck-Lite, round, recessed, LED
  - As close as practical to the vertical centerline.
  - Centers spaced not less than six (6) inches or more than twelve (12) inches apart.
  - Red in color.
  - All at the same height.
  
- The four (4) clearance lights located at the rear will be installed per the following:
  - Truck-Lite, round, recessed 35, LED
  - To indicate the overall width of the vehicle.
  - One (1) each side of the vertical centerline.
  - All at the same height.

As near the top as practical.

To be visible from the rear and the side.

One (1) each side, facing the side.

One (1) each side, facing the rear.

- Per FMVSS 108 and CMVSS 108 requirements.
- All marker lights will be round, recessed, LED.

**PERIMETER SCENE LIGHTS, CAB**

- There will be four (4) Truck-Lite, model 40003, 4.00" grommet mount weatherproof light provided. One (1) for each cab door, and two (2) under the front bumper. Lighting will be designed to provide illumination on cab area, which will be activated automatically when the exit doors are opened, by the door jam switch and by the same means as the body perimeter lights.
- The lighting will be capable of providing illumination at a minimum level of one (1) foot-candle on ground areas within 30.00" of the edge of the apparatus in areas which personnel climb in or out of the apparatus or descend from the apparatus to the ground level.

**PERIMETER SCENE LIGHTS, BODY**

- There will be a total of two (2) Truck-Lite, model 40003, 4.00" grommet mount weatherproof lights provided on the apparatus. Two (2) lights will be provided under the rear step area. The lights will be spaced one (1) each side of the apparatus and will have clear lenses.
- The lighting will be capable of providing illumination at a minimum level of one (1) foot-candle on ground areas within 30.00" of the edge of the apparatus in areas designed for personnel to climb onto the apparatus or descend from the apparatus to the ground level.
- All perimeter lighting will activate when the parking brake is applied.

**DECK LIGHTS**

- Two (2) 4.00" Unity AG deck lights with swivel mount will be provided at the rear of the tank area.
- One (1) light will be furnished with a 160,000 candle power halogen spot bulb and the other will be furnished with a 6,000 candle power halogen flood bulb.

**OFF ROAD LIGHTS**

Two (2) 6" off road lights will be installed in the front grille.

**WARNING LIGHT (Cab Roof)**

- A Whelen Justice light bar shall be mounted in front of the headache rack within the protection area of the headache rack.
- The length of the light bar shall be 50". All the lenses shall be clear.
- The light bar shall include the following:
  - Four (4) red flashing forward facing LED modules.
  - Two (2) clear flashing forward facing LED modules.
  - Two (2) red flashing front corner LED modules.
  - One (1) red flashing driver side facing LED module.
  - One (1) red flashing officer side facing LED module.
- One (1) switch located in the cab, on the switch panel, shall control this light bar.

**FRONT WARNING LIGHTS**

- Two (2) Whelen 700 series LED lights shall be installed in the truck grille.
- The color of these lights shall be red.
- The lights will be controlled by a single rocker switch on the siren control panel.

**SIDE WARNING LIGHTING**

- Six (6) Whelen 700 Series, LED® flashing lights shall be provided in the following positions.
  - Cab Hood, one (1) each side.

- Rear lower body, one (1) each side.
- Rear upper body, one (1) each side.
- The color of these lights shall be **red**.
- The lights will be controlled by a single rocker switch on the siren control panel.

**REAR WARNING LIGHTING**

- Four (4) Whelen 700 Series, LED® warning lights shall be located at the rear of the apparatus.
- Two (2) will be mounted above the body in the body rail, these will be **amber**
- Two (2) will be mounted on the rear of the body, these lights will be **red**
- The lights will be controlled by a single rocker switch on the siren control panel.

**CAMERA/MONITOR**

A color monitor will be mounted on the dash board of the cab. It will be wired to two (2) color cameras. One (1) camera will observe the area in front of the chassis, and one (1) will observe the area behind the chassis.

**FLASHLIGHTS**

One (1) Streamlight SL 45 box light (orange) and charger will be installed in the cab. It will be wired to the IN SERVICE/OUT of SERVICE system.

Two (2) Koehler model #500221 Zenon flashlights will be installed in the cab. They will be wired to the IN SERVICE/OUT of SERVICE system.

**REFLECTIVE BAND**

Three (3) white reflective bands consisting of 1"- 4"- 1" will installed be installed along the sides of the cab and body.

**LETTERING**

The following graphics will be supplied and installed:

- SAFD shields (3)
- SAFD Eagle, (2) both sides of hood
- "SAN ANTONIO FIRE DEPARTMENT", 6" gold reflective, both sides of water tank
- "KEEP BACK 500 FEET", 6" gold reflective
- "NWCG TYPE 3 ENGINE", 2" gold reflective, both sides of hood
- "SAFD", 4" gold reflective, front of hood

**FRONT BUMPER STRIPING**

There shall be alternating chevron striping located on the front bumper of the apparatus. The striping shall consist of 4" diamond grade striping in the following colors:

- The first color shall be red diamond grade
- The second color shall be lime yellow diamond grade

**REAR SKIRT STRIPING**

There shall be alternating chevron striping located on the rear skirt of the apparatus. The striping shall consist of 4" diamond grade striping in the following colors:

- The first color shall be red diamond grade
- The second color shall be lime yellow diamond grade

**PAINT**

The cab and body compartments will be painted in **red (PPG FTB 75492 or equal)** on the cab from the bottom of the windows down, and **white (PPG FTB 91776 or equal)** from the bottom of the windows up.

Body structures will be painted **red and silver**.

**SPANNER WRENCH SET**

A spanner wrench set will be provided and mounted on the rear side of the driver's side compartment in front of the hose reel.

**SUCTION HOSE**

Two (2) 2" x 10' hard suction hoses will be supplied. A 2.5" strainer will also be supplied.

**WARRANTIES**

The overall chassis warranty\*: 1 year/unlimited mileage

Engine warranty\*: 2 years/unlimited mileage

Transmission warranty\*: 2 years/unlimited mileage

Rear Axle warranty\*: 2 years/unlimited mileage

\*All chassis related warranty issues will be covered by Freightliner.

Tank: Lifetime warranty

Pump: Hale, two years parts and labor

Body Bed Substructure: Body Mfg., Five (5) years

Body, electrical, paint, plumbing, package: Body Mfg., 1 year unless exceeded by component manufacturer

**IV. PRICE SCHEDULE**

ITEM	QUANTITY	DESCRIPTION
1	3 Each	Wildland Fire Engine/Brush Trucks NWCG Type III 35,000 GVW Off Road
A.	\$ <u>103,932<sup>00</sup></u>	Price Each – Cab & Chassis
B.	\$ <u>73,904<sup>00</sup></u>	Price Each – Bodies
C.	\$ <u>177,836<sup>00</sup></u>	Price Total (A + B – complete unit)
D.	\$ <u>533,508<sup>00</sup></u>	Grand Total (For three (3) Units)

E. \$ N/A Price Each – Diagnostic Software (If applicable)

**OFFEROR MUST FILL IN THE FOLLOWING:**

A) YEAR, MAKE & MODEL CAB & CHASSIS:

2011 Freightliner m2-106V AWD

B) SPECIFIC MAKE & MODEL OF TRANSMISSION OFFERED:

Allison 3500 EVS

C) SPECIFIC MAKE & MODEL OF ENGINE OFFERED (INCLUDE SAE NET HP):

Cummins ISC - 300HP

D) MAKE & MODEL BODY:

Siddons Skeeter Magnum Wildland

SPECIFIC MAKE & MODEL OF ENGINE OFFERED (INCLUDE SAE NET HP):

DELIVERY: Delivery will be made within 180-240 calendar days after receipt of purchase order  
(Deliveries must be made within 180 days.)

INDICATE THE LAST DAY THAT THE CITY CAN PLACE ORDERS UNDER THIS CONTRACT WITHOUT MISSING THE PRODUCTION CUT OFF DATE: 10-15-10

BID PRICES SHALL REMAIN FIRM FOR ALL ORDERS PLACED PRIOR TO THIS CUT OFF DATE.

IN THE EVENT THAT CITY DOES NOT AWARD A CONTRACT PRIOR TO PRODUCTION CUT OFF DATE, CAN BIDDER PROVIDE BID ITEMS, AT THE BID PRICE SUBMITTED, AFTER PRODUCTION CUT OFF DATE? NO

ITEM	QUANTITY	DESCRIPTION	
2	1 Each	Buyboard Fee	\$ <u>400<sup>00</sup></u>

**Statement:**

"Effective January 1, 2006, Chapter 176 of the Texas Local Government Code requires that persons, or their agents, who seek to contract for the sale or purchase of property, goods, or services with the City, shall file a completed conflict of interest questionnaire with the City Clerk not later than the 7<sup>th</sup> business day after the date that the person: (1) begins contract discussions or negotiations with the City; or (2) submits to the City an application, response to a request for proposals or bids, correspondence, or another writing related to a potential agreement with the City. The conflict of interest questionnaire form is available from the Texas Ethics Commission at [www.ethics.state.tx.us/forms/CIQ.pdf](http://www.ethics.state.tx.us/forms/CIQ.pdf). Completed conflict of interest questionnaires may be mailed or delivered by hand to the Office of the City Clerk. If mailing a completed conflict of interest questionnaire, mail to: Office of the City Clerk, P.O. Box 839966, San Antonio, TX 78283-3966. If delivering a completed conflict of interest questionnaire, deliver to: Office of the City Clerk, City Hall, 2<sup>nd</sup> floor, 100 Military Plaza, San Antonio, TX 78205."

**IMPORTANT MAILING INSTRUCTIONS:**

**MAIL TO:** CITY OF SAN ANTONIO  
PURCHASING & GENERAL SERVICES  
P.O. BOX 839966  
SAN ANTONIO, TX 78283-3966

**PHYSICAL ADDRESS:** PURCHASING & GENERAL SERVICES  
111 SOLEDAD, 11TH FLOOR  
SAN ANTONIO, TEXAS 78205

**REMARKS:**