State of New Mexico
General Services Department

Statewide Price Agreement

Awarded Vendor
2 Awarded Vendors (See page 6)

Price Agreement Number: 95-000-19-00045
Payment Terms: Net 30
F.O.B.: Destination
Delivery: See page 6
Procurement Specialist: Amber Sanchez
Telephone No.: (505) 827-0554
Email: Amber.Sanchez2@state.nm.us

Ship To:
All State of New Mexico agencies, commissions, institutions, political subdivisions and local public bodies allowed by law.

Invoice:
As Requested

Title: Wildland Firefighting Engine Truck Bed
Term: October 7, 2019 thru May 15, 2020

This Statewide Price Agreement is made subject to the “terms and conditions” as indicated on subsequent pages.

Accepted for the State of New Mexico

Mark Hayden, New Mexico State Purchasing Agent

Date: 10/1/2019

Purchasing Division: 1100 St. Francis Drive, Santa Fe, NM 87505; PO Box 6850, Santa Fe, NM 87502 (505) 827-0472
State of New Mexico  
General Services Department  
Purchasing Division  
Price Agreement #: 95-000-19-00045  

Terms and Conditions  
(Unless otherwise specified)

1. **General**: When the State Purchasing Agent or his/her designee issues a purchase document in response to the Vendor's bid, a binding contract is created.

2. **Variation in Quantity**: No variation in the quantity of any item called for by this order will be accepted unless such variation has been caused by conditions of loading, shipping, packing or allowances in manufacturing process and then only to the extent, if any, specified in this order.

3. **Assignment**:
   a. Neither the order, nor any interest therein, nor any claim thereunder, shall be assigned or transferred by the Vendor, except as set forth in Subparagraph 3b or as expressly authorized in writing by the State Purchasing Agent or his/her designee. No such assignment or transfer shall relieve the Vendor from the obligations and liabilities under this order.
   b. Vendor agrees that any and all claims for overcharge resulting from antitrust violations which are borne by the State as to goods, services, and materials purchased in connection with this bid are hereby assigned to the State.

4. **State Furnished Property**: State furnished property shall be returned to the State upon request in the same condition as received except for ordinary wear, tear and modifications ordered hereunder.

5. **Discounts**: Prompt payment discounts will not be considered in computing the low bid.

6. **Inspection**: Final inspection and acceptance will be made at the destination. Supplies rejected at the destination for nonconformance with specifications shall be removed at the Vendor's risk and expense, promptly after notice of rejection.

7. **Inspection of Plant**: The State Purchasing Agent or his/her designee may inspect, at any reasonable time, the part of the Contractor's, or any subcontractor's plant or place of business, which is related to the performance of this contract.

8. **Commercial Warranty**: The Vendor agrees that the supplies or services furnished under this order shall be covered by the most favorable commercial warranties the Vendor gives for such to any customer for such supplies or services. The rights and remedies provided herein shall extend to the State and are in addition to and do not limit any rights afforded to the State by any other clause of this order. **Vendor agrees not to disclaim warranties of fitness for a particular purpose of merchantability**.

9. **Taxes**: The unit price shall exclude all state taxes.

10. **Packing, Shipping and Invoicing**:
    a. The State's purchasing document number and the Vendor's name, user's name and location shall be shown on each packing and delivery ticket, package, bill of lading and other correspondence in connection with the shipments. The user's count will be accepted by the Vendor as final and conclusive on all shipments not accompanied by a packing ticket.
    b. The Vendor's invoice shall be submitted duly certified and shall contain the following information: order number, description of supplies or services, quantities, unit price and extended totals. Separate invoices shall be rendered for each and every complete shipment.
    c. Invoices must be submitted to the using agency and NOT the State Purchasing Agent.

11. **Default**: The State reserves the right to cancel all or any part of this order without cost to the State, if the Vendor fails to meet the provisions of this order and, except as otherwise provided herein, to hold the Vendor liable for any excess cost occasioned by the State due to the Vendor's default. The Vendor shall not be liable for any excess costs if failure to perform the order arises out of causes beyond the control and without the fault or negligence of the Vendor, such causes include but are not restricted to, acts of God or the public enemy, acts of the State or Federal Government, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather and defaults of subcontractors due to any of the above, unless the State shall determine that the supplies or services to be furnished by
the subcontractor were obtainable from other sources in sufficient time to permit the Vendor to meet the required delivery scheduled. The rights of the State provided in this paragraph shall not be exclusive and are in addition to any other rights now being provided by law or under this order.

12. Non-Collusion: In signing this bid the Vendor certifies he/she has not, either directly or indirectly, entered into action in restraint of free competitive bidding in connection with this offer submitted to the State Purchasing Agent or his/her designee.


15. Items: All bid items are to be NEW and of most current production, unless otherwise specified.

16. Payment for Purchases: Except as otherwise agreed to: late payment charges may be assessed against the user state agency in the amount and under the conditions set forth in Section 13-1-158 NMSA 1978.

17. Workers' Compensation: The Contractor agrees to comply with state laws and rules pertaining to Workers' Compensation benefits for its employees. If the Contractor fails to comply with Workers' Compensation Act and applicable rules when required to do so, this Agreement may be terminated by the contracting agency.

18. Submission of Bid: Bids must be submitted in a sealed envelope with the bid number and opening date clearly indicated on the bottom left hand side of the front of the envelope. Failure to label bid envelope will necessitate the premature opening of the bid in order to identify the bid number.

19. Contractor Personnel: Personnel proposed in the Contractor’s written bid to the Procuring Agency are considered material to any work performed under this Price Agreement. Once a Purchase Order or contract has been executed, no changes of personnel will be made by the Contractor without prior written consent of the Procuring Agency. Replacement of any Contractor personnel, if approved, shall be with personnel of equal ability, experience, and qualifications. The Contractor will be responsible for any expenses incurred in familiarizing the replacement personnel to insure their being productive to the project immediately upon receiving assignments. Approval of replacement personnel shall not be unreasonably withheld. The Procuring Agency shall retain the right to request the removal of any of the Contractor’s personnel at any time.

20. Subcontracting: The Contractor shall not subcontract any portion of the Price Agreement without the prior written approval of the Procuring Agency. No such subcontracting shall relieve the Contractor from its obligations and liabilities under this Price Agreement, nor shall any subcontracting obligate payment from the Agency.

21. Records and Audit: The Contractor shall maintain detailed time and expenditure records that indicate the date, time, nature, and cost of services rendered during this Price Agreement’s term and effect, and retain them for a period of three (3) years from the date of final payment under this Price Agreement. The records shall be subject to inspection by the Agency, State Purchasing Division, Department of Finance and Administration, and for Information Technology contracts, State Chief Information Officer. The Agency shall have the right to audit billings, both before and after payment. Payment for services under this Price Agreement shall not foreclose the right of the Agency to recover excessive or illegal payments.

22. Subcontracts: The foregoing requirements for Contractor Personnel, Subcontracting, and Audit shall be inserted into all subcontracts from the prime contractor to the subcontractor.
New Mexico Employees Health Coverage

A. If Contractor has, or grows to, six (6) or more employees who work, or who are expected to work, an average of at least 20 hours per week over a six (6) month period during the term of the contract, Contractor certifies, by signing this agreement, to have in place, and agrees to maintain for the term of the contract, health insurance for its New Mexico Employees and offer that health insurance to its New Mexico Employees if the expected annual value in the aggregate of any and all contracts between Contractor and the State exceeds $250,000 dollars.

B. Contractor agrees to maintain a record of the number of its New Mexico Employees who have (a) accepted health insurance; (b) declined health insurance due to other health insurance coverage already in place; or (c) declined health insurance for other reasons. These records are subject to review and audit by a representative of the state.

C. Contractor agrees to advise all of its New Mexico Employees of the availability of State publicly financed health care coverage programs by providing each of its New Mexico Employees with, as a minimum, the following web site link to additional information: http://www.insurenewmexico.state.nm.us/.

D. For purposes of this Paragraph, the following terms have the following meanings:

(1) "New Mexico Employee" means any resident of the State of New Mexico employed by Contractor who performs the majority of the employee’s work for Contractor within the State of New Mexico, regardless of the location of Contractor’s office or offices; and

(2) “offer” means to make available, without unreasonable restriction, enrollment in one or more health coverage plans and to actively seek and encourage participation in order to achieve the goals of Executive Order 2007-049. This could include State publicly financed public health coverage programs such as Insure New Mexico!

Statewide Price Agreement

Article I – Statement of Work
Under the terms and conditions of this Price Agreement all State of New Mexico agencies, commissions, institutions, political subdivisions and local public bodies allowed by law may issue orders for items and/or services described herein. The terms and conditions of this Price Agreement shall form a part of each order issued hereunder.

The items and/or services to be ordered shall be as listed under Article IX - Price Schedule. All orders issued hereunder will bear both an order number and this Price Agreement number. It is understood that no guarantee or warranty is made or implied by the New Mexico State Purchasing Agent, his/her designee or the user that any order for any definite quantity will be issued under this Price Agreement. The Contractor is required to accept the order and furnish the items and/or services in accordance with the articles contained hereunder for the quantity of each order.

Article II – Term
The term of this Price Agreement, for issuance of orders, shall be as indicated in the specifications.

Article III – Specifications
Items and/or services furnished hereunder shall conform to the requirements of specifications and/or drawings applicable to items listed under Article IX-Price Schedule. Orders issued against this schedule will show the applicable Price Agreement item(s), number(s), and price(s); however they may not describe the item(s) fully.

Article IV – Shipping and Billing Instructions
Contractor shall ship in accordance with the following instructions: Shipment shall be made only against specific orders which the user may place with the Contractor during the term; The Contractor shall enclose a packing list with each shipment listing the order number, price agreement number and the commercial parts number (if any) for each item; Delivery shall be made as indicated on page 1. If vendor is unable to meet stated delivery the State Purchasing Agent or his/her designee must be notified.
Article V – Termination
The Agency may terminate this Agreement for convenience or cause. The Contractor may only terminate this Agreement based upon the Agency’s uncured, material breach of this Agreement. Contractor shall give Agency written notice of termination at least thirty (30) days prior to the intended date of termination, which notice shall (i) identify all the Agency’s material breaches of this Agreement upon which the termination is based and (ii) state what the Agency must do to cure such material breaches. Contractor’s notice of termination shall only be effective (i) if the Agency does not cure all material breaches within the thirty (30) day notice period or (ii) in the case of material breaches that cannot be cured within thirty (30) days, the Agency does not, within the thirty (30) day notice period, notify the Contractor of its intent to cure and begin with due diligence to cure the material breach. Termination of this Contract, however, shall not affect any outstanding orders. This provision is not exclusive and shall not waive other rights and remedies afforded either party in the event of breach of contract or default. In such instances the contract may be cancelled effective immediately.

Article VI – Amendment
This Price Agreement may be amended by mutual agreement of the New Mexico State Purchasing Agent or his/her designee and the Contractor upon written notice by either party to the other. An amendment to this Price Agreement shall not affect any outstanding orders issued prior to the effective date of the amendment as mutually agreed upon, and as published by the New Mexico State Purchasing Agent or his/her designee. Amendments affecting price adjustments and/or the extension of a price agreement expiration date are not allowed unless specifically provided in the bid and price agreement specifications.

Article VII – Indemnity Clause
Contractor shall indemnify and hold harmless the State, its officers and employees, against liability, claims, damages, losses or expenses arising out of bodily injury to persons or damage to properties caused by, or resulting from Contractor’s, and/or its employees, own negligent act or omission while Contractor, and/or its employees, perform or fails to perform its obligations and duties under the Terms and Conditions of this agreement. This save harmless and indemnification clause is subject to the immunities, provisions, and limitations of the Tort Claims Act (Section 41-4-1, et seq., N.M.S.A. 1978 comp. and Section 57-7-1 N.M.S.A. 1878 comp. and any amendments thereto.

It is specifically agreed between the parties executing this agreement that it is not intended by any of the provisions of any part of the agreement to create in the public or any member thereof a third party beneficiary or to authorize anyone not a party to the agreement to maintain a suit(s) for wrongful death(s), bodily and/or personal injury(s) to person(s), damage(s) to property(ies) and/or any other claim(s) whatsoever pursuant to the provisions of this agreement. Vendor shall provide all insurance necessary to employees on the work site, including but not limited to Worker’s Compensation.

Article VIII – Issuance or Orders
Only written signed orders are valid under this Price Agreement.

Article IX – Packing (if applicable)
Packing shall be in conformance with standard commercial practices.

Article X – Price Schedule
Prices as listed in the price schedule hereto attached are firm.
Awarded Vendors:

(AA) 0000055613
Cascade Fire Equipment Company
PO Box 4248
640 Brian Way
Medford, OR 97501
(800) 654-7049
sales@cascadefire.com

Delivery: ARO: 6 Months

(AB) 0000143261
Watts Manufacturing, LLC
230 S. Broadway Suite F
Salina, KS 67401
(785) 404-6003
manager@wattsmfg.com

Delivery: To Buying Fire Department
State of New Mexico  
General Services Department  
Purchasing Division  
Price Agreement #: 95-000-19-00045  

Specifications:

The State of New Mexico wishes to establish a Statewide Price Agreement for wildland fire fighting truck bed units.

The term of this agreement shall be for one (1) year from date of award with the option to extend for three (3) additional years, on a year-to-year basis, by mutual agreement of all parties and approval of the New Mexico State Purchasing Agent at the same price, terms and conditions. This Price Agreement shall not exceed four (4) years.

Chassis
Using agencies shall provide chassis to the Vendor. The fire body shall be built according to the length and width measurements for a current year or late model vehicle, in either two door, four door extended cab, and four door crew cab/chassis configurations.

Service Life and Appearance
The fire body is expected to have a ten (10) year service life. The fire body must remain structurally and operationally sound and the outward appearance remains in a “like new” condition, with minimal maintenance and upkeep throughout the intended service life.

Final Acceptance Inspection
Vendor shall make a completed fire body mounted on a chassis available for a final acceptance inspection to be held at the Vendor’s facility. Vendor shall make available necessary personnel to assist in the inspection of the fire body and mounting and to conduct a draft flow test.

Escalation/Reduction Clause
In the event of a product cost increase, an escalation request will be reviewed by the State Purchasing Division an individual basis. Please be aware this measure is not intended to allow any increase in profit margin, only to compensate for an actual cost increase. Price decreases as well as increases shall apply. If Vendor’s prices are reduced for any reason, users shall receive the benefit of such reductions. Price increases will not be retroactive to orders already in house or backorders. Orders will be filled at the price in effect on the date of receipt of the order by the Vendor. Vendors must also include a letter from the manufacturer with their escalation request.

Minimum Requirements:

Fire Body
Body shall be completely modular in design, allowing transfer of body components to a new chassis in the event of an accident or wear. Body components shall be removable from chassis without cutting or bending. Modular design shall also facilitate ease of repair or replacement of major or minor body parts. All metal work shall be free of sharp or rough edges, objects, or corners. All cuts shall be ground to a smooth finish. The pump module, plumbing, and hose reel shall be positioned to allow unobstructed access from the bumper up to the top of the water tank. Vendor shall provide fire body drawings (top, driver-side, passenger-side, rear view) showing position of compartments, water tank, pump module, foam system, hose reel, plumbing, and spare tire rack.

Platform
Platform shall be 114” long by 96” wide constructed from 6” structural steel frame rails with 4” formed edges and 3” structural steel channel members on 18” centers. The platform shall be covered with ¼” thick steel diamond plate. One inch thick polyurethane cushions shall be provided between the platform frame rails and the chassis frame. Platform shall be bolted to the chassis frame rails at a minimum of three locations per side using grade 8 bolts. All materials and hardware shall be new and of commercial/industrial grade.

Vendor must include a hand rail for ease of climbing on back of the unit and to prevent damage to hose reel or any plumbing components. Hand rail shall start at the back of the unit and extend around the hose reel and connect to the upper passenger side of the top tool bins. Hand rail shall be painted black.
Tailboard
Tailboard shall consist of a 3/16" tapered smooth plate extending approximately 12" down from the platform top to provide mounting of turn signal/tail lights, backup lights, marker lights, license plate bracket/mount, and license plate light in accordance with dot requirements. Tailboard shall be sufficiently reinforced to prevent bending and flexing.

Fuel Tank Filler
Fuel tank filler shall be mounted in accordance with chassis manufacturer's requirements beneath the platform facing outward near the driver side rear corner and shall not extend beyond the platform edge.

Mud Flaps
Two (2) heavy duty, rubber mud flaps shall be mounted behind the rear wheels. Flaps shall be sized and positioned so as to not contact the exhaust pipe or to be torn off by rear wheels.

Rear Step Bumper
A heavy duty step bumper shall be provided beneath and extending rearward from the tailboard. Bumper shall be sufficiently wide to protect the tailboard and provide a step for personnel to climb onto the platform from the rear (approx. 80" wide, 3" high, 5" deep, and ½" thick steel angle). Bumper corners shall be rounded/tapered. The vertical edge of bumper shall be in line with the tailboard. The standing surface shall be positioned approximately 7" below the tailboard bottom edge and covered with expanded metal, friction tape, or similar friction providing material. The bottom edge shall be approximately 21" above ground. The bumper shall be fitted with and rated (5,000# tow capacity, 500# hitch weight) to carry a 2" receiver hitch with a 5/8" hitch pinhole and safety chain attachments. A seven-pin trailer lights/brakes socket for shall be mounted near the receiver hitch and connected to the chassis trailer wire harness. Bumper shall be 3" past furthest point of the bed and allow for departure.

Header/Headache Rack
A cab height, header/headache rack shall be provided at the platform front. The rack shall be constructed with 2" by ¼" square steel tubing and extend upward from the front corners to cab and compartment height. The cab window area shall be protected with ¾" flattened, expanded metal or louvers.

Spare Tire Rack
A passenger side, lockable spare tire rack shall be mounted outside of the chassis frame, underneath the platform, in front of the rear wheels. The rack shall be constructed from 3" structural steel channel. The rack shall be sufficiently angled down (approximately 13° outboard to 18° inboard below the cross members) to accommodate the factory stock tire/wheel diameter and minimize amount of tire extending beyond the platform edge. The tire/wheel shall be secured by inboard stops and a lockable, hinged swing arm.

Compartments
Enclosed compartments shall be constructed of 14 gauge steel plate with formed corners. Enclosed compartments shall be designed, constructed, and mounted in order to support anticipated loads. All mounting holes shall be sealed against dust and water penetration.

Upper Compartments
Two (2) horizontal, 84" wide by 24" deep by 26" high enclosed compartments shall be mounted above the platform on the driver and passenger sides. These compartments are to be mounted flush with the platform sides and front edges. The height of compartments shall match water tank height. Both compartments shall be divided 1/3 forward—2/3 rearward with a reinforced bulkhead. The smaller cabinet shall be positioned forward.

Shelves
Each large and small cabinet is to be provided with one (1) adjustable aluminum shelf. Shelves shall be sized to use the maximum interior horizontal area available. Shelves shall have 1½" turned up edges on four (4) sides and welded corners. Struts for adjustable shelves shall be bolted or welded into place.
Doors
Each small cabinet shall have a single forward swing door. Each large cabinet shall have double swing open doors. Doors shall be recessed into the compartment front and fitted with bulb style adhesive weather stripping and weld-on hinges with grease fittings. Doors shall be reinforced to prevent bending and flexing and fitted with spring door checks. The door check operator arm shall be designed to permit the spring section to be concealed from view. Each small cabinet door and forward double doors on each large cabinet shall be fitted with stainless steel, lockable (keyed-alike), d-handle, and two point (vertical) latches. All latches shall turn counter-clockwise to open.

Lower Compartment
One (1) horizontal, 36” wide by 18” deep by 18” high enclosed compartment shall be mounted on the driver side below the platform. This compartment is to be mounted flush with platform side and front edges. A reinforced, drop-down door shall be recessed into the compartment front and fitted with bulb style adhesive weather stripping and weld-on hinges with grease fittings. Compartment door shall be fitted with a stainless steel, lockable (keyed-alike), d-handle, single point latch. The latch shall turn counter-clockwise to open. Door sides shall be fitted with two (2) removable, plastic coated cables or chains with protective sleeves to limit the door drop to horizontal.

Rear/Frame Compartment
One (1) approximately 34” wide by 114” deep by 6” high compartment is to be provided under the platform. A recessed, drop-down door, with bulb style adhesive weather stripping and weld-on hinges with grease fittings shall be provided in the tailboard. Compartment door shall be fitted with a stainless steel, lockable (keyed-alike), d-handle, single point latch. The latch shall turn counter-clockwise to open.

Tool Bins
84” long by 24” wide by 16” high open top horizontal tool bins shall be mounted on top of each horizontal compartment. Bin walls and floors bins shall be fabricated from (1 ¼” x 1 ½” x ½”) square tubing and ¾” flattened expanded metal. One-half inch polypropylene spacers shall be provided between the bin floor/wall framing and the compartment tops to allow dirt and debris to be washed from compartment tops. All mounting holes shall be sealed against dust and water penetration.

(Optional) - over tank storage – the area above the water tank shall be finished as an open storage area. Front and rear walls and floor of this area shall be fabricated from 1 ¼” x 1 ½” x ½” angle iron (or appropriate square tubing) and ¾” flattened, expanded metal. The front and rear walls shall be 48” wide and match the adjoining tools bin height. The front wall shall align with the forward tool bin walls. The rear wall shall be positioned in front of tank fill towers. Front and rear walls and floor shall be bolted together to facilitate easy removal for cleaning of dirt and debris. One-half inch thick polypropylene spacers shall be provided between wall bottoms and floor and the water tank top to allow dirt and debris to be washed from the water tank top.

Storage Box – Fabricate 12 ga gasketed lockable box to fit on top of UPF tank, 64” wide, 46” deep, 16” tall, gas springs, and SS hardware painted black.

Pump Module
Pump module shall consist of a Wildfire BB-4 (or equal) four stage high pressure wildland fire pump powered by a 4-cycle, air-cooled 23 HP gasoline Briggs-Stratton Vanguard (or equal) motor. The motor shall include the following features: 12-volt electric starter wired to chassis electric system, manual recoil backup starter, magnetron electronic ignition, dual circuit alternator charging system, pressure lubrication, Vernier throttle, manual choke, U.S. Forest Service approved muffler/spark arrestor, and over-speed protection governor. To facilitate used oil draining and collection, the motor oil drain shall be fitted with an industrial, ¼ turn, ball valve, small diameter piping or hydraulic hose, and a cap or plug. Piping or hose shall be above the platform surface and extend to the driver side. The pump shall include the following features: lightweight aluminum alloy body, anodized aluminum corrosion resistant components, stainless steel shaft, mechanical seals, 2” suction intake, 1½” discharge outlet, detachable quick release pump head, and belt drive speed increaser.
Position and Mounting
Pump module shall be position on the platform at the driver side rear corner with the manual recoil starter facing outward and pump inlet facing toward the passenger side. Pump motor shall be cushioned with 1” heavy duty, rubber bushings between the motor and platform. If possible, the 1½” manual barrel primer connection on the pump head should be accessible and positioned up. Otherwise, a provision shall be made for a vertical 1½” NH thread male connection with anodized aluminum cap with chain located near the pump outlet.

Fuel Tank
A 4-gallon, rectangular, aluminum fuel tank, meeting US DOT, specifications shall be mounted at the driver side compartment rear wall. Fuel tank shall have a vented, brass fill cap with keeper chain; top feed; and bottom drain fitted with a brass plug. An in-line automotive type fuel filter shall be provided on the fuel line between the pump motor and fuel tank.

Pump Primer
A manual diaphragm pump (Guzzler no. 400-h ¾” f or equal) shall be mounted on or near the pump control panel. The primer pump suction shall be plumbed to the pump discharge near the outlet and include an industrial, ¼ turn, ball valve. The primer pump shall discharge away from the operator’s position below platform at the driver side rear corner.

Foam System
Vendor shall provide a (Foam Pro Model 1601 Class A Foam system or equal). The foam concentrate injection point shall be positioned on the discharge plumbing such that all outlets are foam solution capable and foam solution does not enter the water tank via the tank fill or pump cooling recirculation lines. It is not acceptable for foam solution to enter the water tank. Foam proportioner injection pump and microprocessor shall be mounted to the rear of the water tank between the pump module and hose reel. Injection pump and microprocessor shall be covered with a reinforced, bright finish, aluminum diamond plate box. The box shall be easily removable to allow unobstructed access for system maintenance and repair. The box shall serve as a step between the platform and the top of the water tank. Foam system controls shall be mounted on the pump control panel. The foam inlet and discharge lines shall comply with the system manufacturer’s requirements.

Pump Panel and Controls
All pump motor, foam system, and work lighting controls shall be located in an enclosed water and dust resistant, aluminum plate, pump panel. The pump panel shall be mounted facing rearward to the rear of the pump motor at the driver side platform corner. The pump panel mounting shall be reinforced to prevent damage to the panel due to passing brush and tree branches. The pump panel shall have a removable access plate to ease maintenance and repair and be adequately illuminated for nighttime use. The following controls and indicators shall be mounted on the panel: pump panel light switch; work lighting switch; pump motor starter switch, on/kill switch, throttle, and manual choke control; foam system on/off switch, concentrate control, and low concentrate warning indicator; and 0 – 600 psi pump output pressure gauge. The pressure gauge shall be 5” diameter, oil filled with a white face and black numbering. Pump motor controls shall include a low water level shut down with an override (on/off) switch. An electronic pump total cumulative hour meter shall be supplied. All controls, gauges, indicators, and meters shall be environmentally sealed (marine grade) to prevent moisture/dirt damage and marked with engraved plastic labels (black with white letters). All exposed wires and cables shall be loomed/encased.

Optional Water Level Gauge
Pump panel shall be equipped with a class 1 "inteli-tank" level gauge for indicating water level. The water tank level gauge shall be mounted in a convenient location and indicate the foam concentrate level on an easy to read led display and show increments of 1/8 tank capacity. The tank level gauge system shall include: a pressure transducer that shall be mounted on the outside of the tank in an easily accessible area, a super bright LED four-light display with a visual indication at nine (9) accurate levels, and a set of weather resistant connectors to connect to the digital display to the pressure transducer and to the apparatus power.
Water Tank
A tank with a water capacity of approximately 300 or 400 gallons with approximate dimensions of 48" wide, 70" long and 26" high shall be provided. The rear tank wall shall include a water level sight gauge. Tank shall be properly baffled, both longitudinal and transverse to meet or exceed NFPA 1901 requirements. Tank and integral plumbing shall carry a “lifetime” maintenance free warranty to the original purchaser, barring accidents or abuse. Tank shall be constructed of black, ½” non-corrosive, stress relieved polypropylene sheet stock. All joints and seams are to be nitrogen welded and tested inside and out for maximum strength. Transverse swash partitions shall be manufactured of ¾” pt2 polypropylene and extended from approximately 4" off the floor to just under the cover. Longitudinal swash partitions shall be constructed of ¾” pt2 polypropylene and extended from the tank floor through the cover to allow for positive welding. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments. Partitions shall be designed to provide maximum water flow. All swash partitions shall interlock with one another and be welded to each other as well as to the walls. All tank fittings and plumbing shall be PVC, mechanically locked, and totally sealed from the inside. Tank shall be mounted on the platform in accordance with the tank manufacturer’s requirements.

Position
The tank longitudinal centerline shall be positioned along the platform centerline behind the cab between the compartments. The tank front shall be in line with the front of the compartments. The tank top shall be level with the compartment tops.

Tank Inlets and Outlets
The tank shall be supplied with a 1½” direct tank refill (pump to tank) connection with a flow deflector and a 2” pump supply outlet. The outlet shall be positioned as low as possible on the rear wall of the tank so as to provide a straight line for the suction (no bends). The tank suction outlet, using appropriate valving, shall also serve as an overboard tank fill/pump suction inlet from a pressurized water source (hydrant, pump). The 2” inlet/outlet shall be equipped with a flow deflector/anti-swirl baffle plate. The tank inlet/outlets shall be located as far as possible to the left of center (driver side) such that piping does not impede personnel access to the top of the tank from the rear of the apparatus.

Class A Foam Concentrate Reservoir
Integral to the water tank shall be a 10-gallon polypropylene class a foam concentrate reservoir. The reservoir shall be located at the driver side rear corner of the tank, be properly vented, and include an electronic low concentrate level sensor, concentrate suction outlet, low point drain, and level sight gauge on the rear wall of the tank. The foam concentrate outlet shall be plumbed to the on board “class a” foam system and include an industrial, ¼ turn, brass, ball valve. The foam drain shall be equipped with an industrial, ¼ turn, brass, ball valve and a flexible hose to allow the concentrate to be drained and collected.

Fill Towers
The tank shall be constructed with a combination water fill tower and vent located at the passenger side rear corner and a Class A Foam concentrate fill tower located at the driver side rear corner. The foam tank fill tower shall be equipped with a pressure/vacuum vent. Inside the water fill tower there shall be a combination vent overflow pipe. The vent overflow shall be an integral 2” id schedule 40 PVC pipe running from the fill tower through the tank to a coupling flush mounted into the tank bottom to allow water to overflow beneath the chassis. Each fill tower shall be clearly labeled indicating “water” and “class a foam”. Each fill tower shall contain a hinged cover.

Plumbing
All piping shall be located as far left of centerline (driver side) and as low as possible such that piping does not impede personnel access to the top of the tank from the rear of the apparatus. All hard pipe shall be heavy-duty (schedule 40 minimum) galvanized pipe. All hard pipe and in-line valves shall be supported on vertical pedestals/cradles with vertically oriented U-BOLTS (bolts underneath). Except as noted below, discharge/pressure piping shall be ½” diameter. Intake/suction piping shall be 2” diameter. Victaulic (or equal) couplings are to be used wherever chassis flexing or vibration may loosen or damage piping or the pump housing and to provide for maintainability and serviceability. A short section of 2” diameter, flexible, suction hose shall be provided between the tank suction outlet
and hard piping. 1½" id high-pressure hydraulic hose and couplings and an in-line valve shall be used for the tank refill/recirculation line. 1" id high-pressure hydraulic hose and couplings and an in-line valve shall be used to plumb the hose reel. The use of reinforced hard rubber hose with compression fitted threaded fittings with swivels instead of hard piping is only acceptable if the hose with attached couplings is pressure rated by the builder at 1.5 times the maximum pump pressure rating. The Vendor shall provide plumbing layout drawings for approval prior to construction.

**Discharge Outlets**
Three (3) rear overboard discharges shall consist of the following: two (2) – 1½" NH outlets and one (1) – 1" NPSH outlets. Overboard discharges shall be plumbed from a single horizontal manifold. Discharge outlets shall be positioned in line with the tailboard with sufficient space for unimpeded coupling of appliances and/or hoses. All discharges shall have their own valve and be equipped with an anodized aluminum cap and keeper chain. The manifold shall be located left of tank centerline (driver side), next to the pump panel, above the overboard suction intake. The manifold shall have a minimum cross-sectional area perpendicular to the discharge outlets of twelve (12) square inches so as to not impede flow during full discharge.

**Discharge and Inline Valves**
Except as noted above, all discharge and in-line valves (tank fill/recirculation, hose reel, overboard discharges) shall be fire service grade, dropout type, and ¼-turn, ball valves (Elkhart, Hale, or equal).

**Suction Intake and Valves**
A 2" diameter overboard suction intake and tank suction piping shall be provided. One (1) 2" fire service grade, ¼-turn, suction valve shall be provided between the tank outlet and the pump suction inlet. One (1) 2" fire service grade, ¼-turn, suction valve shall be provided between the pump suction inlet and overboard suction intake. The intake line and valves shall be supported on flanges/cradles and terminate in a 2" NPSH threaded male coupling with an anodized aluminum cap and keeper chain. The male coupling shall be positioned rearward beyond the platform edge to provide easy coupling of supply and hard suction hoses. Any hard rubber or flexible suction hose with couplings used for the suction intake plumbing shall be rated to withstand a minimum of 150 PSI inlet pressure.

**Hose Reel**
An (Aluminum Hannay Reels or equal) electric hose reel shall be provided. The hose reel shall be configured for top rewind. The motor shall be positioned to the bottom, left (looking forward), rear of the frame. The auxiliary manual rewind shall be positioned horizontally, with the crank attachment forward. The Vendor shall provide a hand crank. The reel shall be sized to hold 200 feet of 1" hard line with an approximate diameter of 24" and width of 16". The outlet shall be 1" NPSH thread. The reel shall be provided with high mounted, chrome hose rollers (one horizontal, two vertical). The reel frame shall be positioned at the platform rear edge, approximately 16" from the passenger side with the hose roller guides at the platform rear edge. A push button electric rewind control shall be provided at the platform rear on or near the reel frame. Wiring to be encased/loomed.

**Hose**
The Vendor shall provide 200 feet of new one-inch ID lightweight, high pressure hard line in fifty (50) feet lengths with NPSH coupling threads.

**Hard Suction Hose**
The Vendor shall provide two (2) new sections of 2" by 8' long translucent, flexible, hard suction hose. The suction hose shall be coupled with both 2" female swivel and male NPSH couplings. The Vendor shall also provide one (1) 2" female NPSH thread foot valve/strainer.
Electrical and Lighting
All electrical wiring and equipment shall be installed to conform to current fire apparatus construction practices and NFPA 1901 standards. All wiring shall be run in heat resistant, plastic, corrugated loom split along its entire length and protected by automatic reset circuit breakers. All wiring shall be secured with insulated metal, cable hangers/anchors. All wiring shall be color and number coded and heat resistant. Rubber grommets shall be used wherever wires or looms pass through holes in metal.

Main Electric Supply Switch
A main electric supply cutoff switch with a remote, heavy-duty relay shall be provided to control the electric supply to the fire body.

Automotive Lighting
Six (6) red, (Trucklite Model 10 or equal) led marker lights shall be installed in the platform edge as follows: one (1) each on the driver and passenger sides of the rear corners, one (1) each on rear corners facing rearward, and three (3) evenly spaced in the center of the tailboard above the rear compartment. Two (2) amber, (Trucklite Model 10 or equal) LED marker lights shall be positioned one (1) each on the driver and passenger sides of the platform front corners. Two (2) (Trucklite Model 60 or equal) LED, oblong combination tail, stop, and directional lights shall be provided. Two (2) (Trucklite Model 60 or equal) LED oblong back-up lights shall be provided. The combination and back-up lights shall be recessed diagonally into the tailboard. All marker and clearance lights and reflectors shall be provided and mounted as necessary to meet U.S. DOT requirements and NFPA 1901 standards. One (1) license plate light shall be positioned right of center on the tailboard at an appropriate location to mount a license plate.

Work Lights
Two (2) Buyers or approved equal LED work lights shall be provided. The work lights shall be mounted at the rear upper, outside corners, below the top of each tool bin. The wiring shall be routed and securely anchored to avoid damage from tools, tree branches and brush. The work lights shall be connected to a switch on the pump panel.

Automatic Back-Up Alarm
One (1) solid state electronic, variable volume, backup alarm shall be installed beneath the platform behind the tailboard and wired to the chassis backup light circuit. Should meet NFPA 1901 standards.

NFPA 1906 Standard for Wildland Fire Apparatus Features
Label showing fluids used in truck, readily visible to driver
Label for Number of personnel allowed on apparatus, readily visible to driver
Safety Sign FAMA43, warning to not wear helmets in apparatus, readily visible to passengers
Handrail at rear, paint yellow
Safety Sign FAMA24, personnel should not ride on vehicle, visible at rear
Pump engaged indicator light in cab Note: gas engine powered pump do not require OK to pump indicator
Test label for rated discharge/pressure of pump, visible to operator/engineer
One set of tire tools, including a jack and a lug wrench
Safety sign FAMA07, which warns of the importance of seat belt use
Vehicle Stability shall meet criterion as per NFPA 1906
Wheel chocks with mount (Optional)
Label showing Height, weight, GVWR, readily visible to driver (Optional)
Tow hooks (retain factory front hooks) add (2) weld on rear hooks, vertical bumper support (Optional)
Low voltage electrical warning system, audible and visual (Optional)
Non-slip tape on rear bumper and surface between reel and plumbing (Optional)
4” Retro Reflective Strip, Down boxes, doors, across grill, across tailboard (Optional)
TPMS, tire pressure monitoring system, all tires with monitor in cab (Optional)
Finishes
All steel components of the platform, compartments, and tool bins shall be thoroughly cleaned and prepared. All individual components are then to be completely primed with epoxy base primer. The platform and compartments shall have all irregularities removed or filled and be prepared for a final prime coat. Exteriors of platform and components shall have multiple coats of paint. The entire platform, spare tire rack, step bumper, below bed compartment, metal piping, manifold, and tool bins shall be painted glossy black. The above bed compartment exteriors shall be painted white to match the cab. Cab paint code will be furnished to the Vendor. Compartment interior surfaces shall be primed as indicated above and coated with white, two-part epoxy "trunk-coat". All metal piping shall be painted glossy red.

Paint Warranty
The Vendor shall warrant the paint finish on the platform, compartments, compartment doors, and tool bins for a period of five (5) years from date of delivery. This warranty shall apply only to the finished areas for the following defects: cracking or checking, a total loss of gloss caused by chalking or fading, top coat peeling or all layers included in the process from the substrate, or spot or random discoloration in the overall finish.

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*** 1 Item Total ***