City of San Leandro

Meeting Date: February 1, 2021

Staff Report

File Number: 21-040 **Agenda Section:** CONSENT CALENDAR

Agenda Number: 8.E.

TO: City Council

FROM: Fran Robustelli
Interim City Manager

BY: Susan Hsieh
Finance Director

FINANCE REVIEW: Susan Hsieh
Finance Director

TITLE: Staff Report for a City of San Leandro City Council Resolution Authorizing the Acquisition of a Replacement Fire Truck from Golden State Fire Apparatus, Inc. and Relevant Costs for Tool Purchase and Equipment Mounting and Authorizing the City Manager to Execute the Purchase Agreement and Other Documents Necessary to Finance the Acquisition at a Cost Not to Exceed $301,000.00

SUMMARY AND RECOMMENDATIONS

Staff recommends that the City Council approve the resolution authorizing the acquisition of a replacement fire truck and relevant costs for tool purchase and equipment mounting. The resolution authorizes the City Manager to execute the purchase agreement and other documents necessary to finance the acquisition.

BACKGROUND

The City's contract with the Alameda County Fire Department (ACFD) for fire services includes provisions for City ownership of all fire facilities and equipment, including fire engines. Currently, the apparatus in City service includes five engines and three trucks. The Fiscal Year 2020-2021 Fire Service Budget approved by the City Council included the replacement of a fire truck. Since the City owned unit was retired in August 2011, the ACFD has been providing San Leandro Station 9 with the use of a Type 6 (Wildland Firefighting) apparatus under a mutual agreement. The County owned Type 6 apparatus currently placed at Station 9 is now 25 years old and is in need of replacement.

Analysis

ACFD recently went through a procurement process with HGACBuy Cooperative to select a replacement fire truck for Station 9. HGACBuy is the piggyback purchase system ACFD uses to purchase its fire apparatus. The procurement process is also consistent with the City's

purchasing policy. HGACBuy is a nationwide, government procurement service striving to make the governmental procurement process more efficient. Units of local government, including non-profits providing governmental services, are eligible to become participating members of the HGACBuy Cooperative. All contracts available to participating members of HGACBuy have been awarded through a public competitive procurement process compliant with state statutes.

The proposal for the replacement fire truck is attached hereto. The price for the Type 5 Wildland Pumper Fire Truck is not to exceed $238,318.07, which includes costs for inspection, delivery, and sales tax. Additional costs of approximately $62,000 are expected for tool purchase and equipment mounting, and the work will be performed by the ACFD. If approved by the City Council, the fire truck will be purchased through Golden State Fire Apparatus, Inc. The specifications for the equipment were developed by ACFD and meet all safety and environmental requirements of the City.

The truck that would be acquired through a piggyback purchase on the ACFD's bid and contract meets the City's equipment requirements and is consistent with equipment currently in use. For these reasons, staff recommends that the City acquire a new fire truck utilizing ACFD's bid.

Fiscal Impacts

The total cost including inspection, delivery, sales tax, tool purchase and equipment mounting is approximately $301,000.

Budget Authority

Acquisition costs are included in the City’s 2020-21 Adopted Budget, account number 010-23-002-7410.

PREPARED BY: Susan Hsieh, Finance Director

ATTACHMENT

Fire Truck Proposal

GOLDEN STATE
FIRE APPARATUS

PROPOSAL PREPARED FOR
City of San Leandro
Skeeter Brush Trucks, LLC
Type 5 Wildland Pumper
HGAC FS12-19, Code FS19BBB03
December 3, 2020

SALES CONSULTANT
Daron Wright
Golden State Fire Apparatus, Inc.
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PROPOSAL PREPARED FOR:

City of San Leandro
835 East 14th Street
San Leandro, CA 94578

Submitted Date:	December 3, 2020
Proposal Number:	81203-20
Expiration Date:	**February 28, 2021**
Sales Consultant:	Daroin Wright

Pursuant to this proposal (the "Proposal"), Golden State Fire Apparatus, Inc. ("GSFA") hereby proposes to furnish CITY OF SAN LEANDRO ("Customer"), the following fire apparatus and equipment, hereinafter called the "Product":

#	Description	Unit Price
A	One (1) Skeeter Brush Trucks, LLC Type 5 Wildland Pumper	227,662.15
B	Discount for HGAC contract FS12-19, Product Code FS19BBB03	(8,000.00)
C	Pre-Payment Discount for 100% Payment at Time of Order	(2,525.41)

SUBTOTAL	**217,136.74**
9.75% State Sales Tax	21,170.83
California Tire Fee	10.50
GRAND TOTAL	**238,318.07**

PROPOSAL SUMMARY

This Proposal includes the following items in accordance with the specifications hereto attached:

- Fire apparatus and equipment
- Pre-delivery inspection/services by GSFA
- Delivery to GSFA service center in Sacramento
- Final delivery from service center to Customer
- Demonstration and familiarization of the Product
- California Tire Fee

PRODUCT COMPLETION

The Product shall be built in accordance with the specifications hereto attached within approximately **345** calendar days after Customer's acceptance of this Proposal, subject to the force majeure provisions contained in the Purchase Agreement (defined below). The Purchase Agreement shall further describe the delivery schedule for the Product.

DELIVERY LOCATION

Product shall be shipped in accordance with the specifications hereto attached and be delivered to you at **SAN LEANDRO, CALIFORNIA**. Prior to final delivery of the Product to Customer, Customer agrees to provide proof of liability and physical damage insurance to GSFA. GSFA shall not deliver the Product until such proof of insurance is provided.

ACCEPTING THIS PROPOSAL

In the event Customer wishes to purchase the Product described in this Proposal and the attached specifications, then, prior to the expiration date listed on page 2 of this Proposal, Customer shall sign and return this Proposal. Thereafter, GSFA and Customer will endeavor to enter into a purchase agreement incorporating this Proposal and including additional terms (a "Purchase Agreement"). If Customer returns a signed copy of this Proposal alone, GSFA will send Customer its form of Purchase Agreement for Customer's review and signature. **If Customer desires to use its standard form of purchase order as the Purchase Agreement, then Customer should return a signed copy of this Proposal along with a copy of such purchase order. All purchase orders shall be made out to GSFA**. GSFA will review such purchase order and contact the Customer regarding any required revisions. Only upon a full execution of a Purchase Agreement shall GSFA and Customer be obligated to purchase and sell the Product set forth in this Proposal.

TERMS AND CONDITIONS

The following Terms and Conditions are hereby made part of this Proposal:

1. Payment Terms, 100% Pre-Payment at Time of Order – Customer shall pay the amount listed on page 2 of this Proposal, which includes: (i) the total price for the Product (the "Purchase Price") less the Pre-Payment discount, (ii) the estimated state sales tax on the Product, and (iii) the California tire fee (together with the Purchase Price and estimated state sales tax, the "Grand Total") within fifteen (15) calendar days from the date on which the Purchase Agreement is fully executed. In the event Customer does not pay GSFA the Grand Total in the timeframe set forth in this Section 1, Customer shall not receive the Pre-Payment discount shown on page 2 of this Proposal and GSFA may, in its sole discretion cancel the Purchase Agreement entered into between the parties.

2. Multiple Unit Purchase – If the Purchase Price includes pricing for multiple units, the price stated on this Proposal shall only be valid if the quantity of Products being proposed are purchased at the same time, pursuant to the same Purchase Agreement.

3. Stock / Demo Units – If applicable, any stock/demo units, including those identified by this Proposal, are available for sale on an as-is, first-come and first served-basis. Regardless of this Proposal, the first Customer to enter into a Purchase Agreement identifying any such stock/demo unites shall obtain said units.

4. Order Changes – The Customer may request that GSFA incorporate a change to the Product or the Specifications for the Product by delivering a written change order to GSFA, which shall include a description of the proposed change sufficient to permit GSFA to evaluate the feasibility of such change (a "Change Order"). GSFA will provide Customer a written response (a "Response") stating (i) whether GSFA will accommodate such Change Order (which GSFA may decide in its sole and absolute discretion) and (ii) the terms of the modification to the order, including any increase or decrease in the Purchase Price resulting from such Change Order, and any effect on production scheduling or Delivery resulting from such Change Order. Customer shall have seven (7) days after receipt of the Response to notify GSFA as to whether Customer desires to make the changes GSFA has approved in the Response. In the event Customer counter-signs GSFA's Response, Customer shall pay the increase (or be refunded the decrease) in the Purchase Price prior to final delivery to Customer location.

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

6. Cancellation/Termination – In the event Customer and GSFA enter into a Purchase Agreement and Customer thereafter cancels or terminates the Purchase Agreement, GSFA will charge a cancellation fee as follows: (a) 10% of the Purchase Price after order is accepted and entered by GSFA; (b) 20% of the Purchase Price after completion of the pre-construction phase of the order process; and (c) 50% of the Purchase Price after the requisition of any materials or commencement of any manufacturing or assembly of the Product by either GSFA or the manufacturer of the Product. The tier of cancellation fee applicable to any cancellation shall be in the sole and absolute discretion of GSFA.

7. State Sales Tax – Customer shall be responsible for the cost of state sales tax associated with, or attributable to the Product. The taxes owed by Customer for the Product is subject to adjustment for the applicable state sales tax rate in effect when the Product is delivered to the Customer. Therefore, the sales tax will be increased or decreased at the time of delivery if a change in the sales tax rate has occurred, in which case Customer shall pay GSFA (or be refunded by GSFA) the applicable change in sales tax.

8. Proposal Expiration – After the Expiration Date shown on page one of this Proposal, Customer shall require GSFA's written consent to accept this Proposal.

9. Governing Law – This Proposal is to be governed by and under the laws of the state of California.

Thank you for providing Golden State Fire Apparatus, Inc. with the opportunity to provide this proposal. If you have any questions regarding the options presented or need additional options, please contact me.

Sincerely,

Daron Wright
Golden State Fire Apparatus, Inc.

I, _____authorized representative of CITY OF SAN LEANDRO agrees to purchase the proposed Product(s) and agree to the terms and conditions of this proposal and the specifications hereto attached.

SIGNATURE: _____

TITLE: _____ DATE: _____

Component List

Customer:	CITY OF SAN LEANDRO	Spec Number:	5350
Address:	Civic Center, 835 E. 14th Street	Job Number:	
City, State Zip:	San Leandro CA 94577	Spec Date:	November 30, 2020
Contact:	Pete Pegadiotes , General Services Mgr	Body:	Rescue Side, Alum, 114
Sales Rep:	Daron Wright	Chassis:	Ford F550 - 4x4 - Diesel - 4 Door
Dealership:	Golden State Fire Apparatus, Inc.	Tank:	400 Gallons, Poly

Line	Option	Qty	Description
001	100044.2	1	Paint (Single Stock Color)
002	100520.3	1	Window Tint (SPECIFY)
003	100026.2	1	Ford F550 - 4x4 - Diesel - 4 Door (2021)
004	100037.1	1	Power Package (Electric Windows, Locks, Mirrors)
005	100045.1	1	NO -- Lift or Larger Tires/Wheels
006	596566.3	1	2" Lift
007	596567.2	1	Tires & Wheels
008	100047.1	1	Stock Tires/Wheels
009	100451.2	1	Spare Tire and Wheel, 225/70 R19.50
010	100055.2	1	Spare Tire, Top of Tank
011	100062.8	1	Skeeter Aluminum Custom Bumper
012	596572.3	1	Shovel storage tubes
013	100058.1	1	Mud Flaps, Rear Wheels, SBT Logo
014	100063.1	1	1/4" Skid Protection Panel
015	100065.1	1	Transfer Case, Skid Protection Panel, SMALL CHASSIS
016	100111.3	1	Cab Steps, Custom Painted, (4) Door or Extended Cab
017	100186.1	1	NO -- Cab Protection
018	100086.4	1	Cab Console, Poly, Custom
019	100543.3	1	Power Outlets 12V, Cigarette Lighter Type, Cab (3)
020	100372.1	1	NO -- Cab 2nd Row Poly Compartment
021	100081.1	1	Winch, Warn, #M15000, Electric, Front Mount, 15,000#
022	100178.1	1	Receiver, Rear, Winch/Rope/Trailer, 10,000#
023	100242.3	1	Pump, Hale, Aux, Diesel, HPX75-KBD 24 Kubota
024	100423.2	1	Thermal Relief Valve
025	100272.2	1	Standard Stainless Steel Manifold
026	100285.1	1	Valves, S/S, Quarter Turn
027	100263.2	1	Exhaust System, Vertical, Rain Cap, Aux Pump
028	100307.1	1	Primer, Electric, Aux Pump, Additional or IPOS
029	100266.2	1	Pump Enclosure - Diesel Pump
030	100419.1	1	Remote Pump Control in Cab (Manual), Gas Pump
031	100534.2	1	Low Water Pressure Cut-Off
032	100267.1	1	Pump Fuel from Chassis
033	100256.2	1	Battery Supply, 12V, Chassis, Master Switch & Solenoid
034	100254.1	1	Pump Engine Oil Drain
035	100255.2	1	Aux Fire Pump Mntg, P/S Rear, Bolted
036	100273.1	1	Upgrade Manifold for Bumper Discharges
037	100270.2	1	Intake, Gated, 2.5"FM, Rear, w/2.5" Plug, Aux Pump, Direct Vlv Cntrl
038	100283.1	1	Tank-To-Pump, Water Tank, 2.5", Install

039	100281.2	1	Tank Fill and Cooling Line, Water Tank, 1", Aux Pump
040	100278.2	1	Discharge, .75"GH, Rear, Garden Hose Outlet
041	100274.2	1	Discharge, 2.5", Rear, 2.5"FM x 1.5"M, 1.5" cap
042	100441.1	1	Discharge, 1.5", Front Body (Through Tank)
043	203717.2	1	30 Degree Elbow, NST, 2 1/2"
044	100290.4	1	Hose Reel, Hannay, Elec Rewind, Alum (2)
045	100293.2	2	100 Foot Reel Capacity
046	100295.5	2	Hose Reel Discharge, 1" Valve and Flex-Hose, Local Cntrl
047	100302.4	2	Nozzle Mounting
048	100297.6	2	Hose, Water, 300#, 1" x 150'
049	100280.4	1	Ground Sweep Discharges, Front Bumper
050	100261.2	1	Foam System, FoamPro, 1601, Class A
051	100224.1	1	NO -- Electronic Water Gauge
052	100226.1	1	Water Tank Gauge, Class 1, Rear & Cab
053	100200.1	1	Water Tank Capacity, 400 Gallons, Poly
054	100203.1	1	Water Tank, Specs
055	100204.1	1	Water Tank Shape, Rectangular
056	100205.1	1	Water Tank, NFPA Compliance
057	100206.1	1	Tank Gauge, Translucent Tank Sight Level
058	100207.2	1	Fill Tower, Water Tank, 12" x 12" x 6", D/S Rear Corner
059	100209.1	1	Overflow, Water Tank, 3" PVC Pipe, <500G
060	100212.1	1	Sump, Water Tank, 4" Deep x 12" Square
061	100213.1	1	Tank to Pump, Piping Connection, 3", 350 GPM Flow
062	100214.1	1	Pump to Tank, Fill Connection, 1", 100 GPM Flow
063	100216.1	1	Water Tank Drain Plug, 1.5"
064	100222.1	1	NO -- Tank Perimeter Wall
065	100228.1	1	Foam Tank Capacity, 20 Gallons, Class A, Poly
066	100232.1	1	Foam Tank, Fill and Vent, Class A
067	100233.1	1	Foam Tank to Foam System, 3/4"
068	100235.1	1	Foam Tank Drain and Valve, 3/4"
069	100237.1	1	NO -- Electric Foam Gauge
070	100239.1	1	Foam Tank Gauge, Class 1, Class A, Rear & Cab
071	100549.5	1	Rescue Side, Alum, 114" x 96", 60CA
072	596632.2	1	Tulip Clips
073	100121.1	1	Front of Body, 22 deg Corners
074	100437.4	1	Transverse Compartment (Flat Bed) 24"W x 24"H x 96"L w/Doors
075	100144.3	1	Compartment, Drivers Side, Lift-Up Door
076	100148.2	1	Compartment, Passengers Side, Lift-Up Door
077	100150.1	1	NO -- Underbody Compartments, Front Body
078	100585.1	1	Cmpt Under Rear Bdy, D/S & P/S, Alum, 20" W x 15"H x 23"D, Vert Hingd Dr
079	100159.5	1	Rear Center Under Body Compt, Drop Down Door
080	100166.3	1	Equipment Tray, Alum, UHMW slide
081	100160.2	1	Compartment Ventilation
082	100161.1	1	Key Locks, Compartments, Hinged Doors
083	100425.3	1	Compartment Lights, LED Strip Light
084	100163.1	1	Compartment Light Door Switches, Automatic
085	100164.3	1	Door Ajar Light, Flashing, Red LED
086	596646.3	1	Stokes Basket Storage Detail
087	100169.5	1	Hose Tray, Driver's Side, 72 in. long
088	100172.5	1	Hose Tray, Passengers Side, 72 in. long
089	100177.1	1	NO -- Tool Tray, Passengers Side
090	100175.1	1	NO -- Tool Tray, Drivers Side
091	100180.3	2	Rear Step, Pull out and drop down

092	100181.2	1	Step, Sig-4, Folding, Lighted, DS REAR(1)
093	100325.8	1	Fuse Box
094	100326.2	1	Chassis Harness
095	100327.1	1	Wiring Harness, Body Electrical
096	100090.2	1	Battery Master Disconnect, 12V
097	100094.10	1	Battery Charger and Shore Power Plug, Kussmaul 1000 and Auto-Eject
098	100328.1	1	Clearance Lights, LED, DOT
099	100329.1	1	License Plate, Mount, Lighting
100	100330.2	1	Stop/Tail/Turn Lights, Whelen M6BTT/M6FC
101	100331.1	1	Back up Lights, Whelen M6 Series, LED,
102	100095.1	1	NO -- Trailer Plug
103	100096.1	1	Trailer Hitch Power Plug, 12V, 7 Prong
104	100067.1	1	NO -- Off Road Lights
105	100070.1	1	No -- Bumper Ground Lights
106	200312.2	1	Ground Lights, Cab, 4 Door, LED STRIPS
107	100182.5	1	Ground Lights, Under Front Of Body Step, LED (2),
108	100184.3	1	Body Work Lights, LED, (4), Grote #63871
109	100318.3	1	Scene Light, Combo, Rigid 20"
110	100322.1	1	Scene Light, (6) Rigid Dually
111	100104.1	1	NO -- GPS
112	100106.1	1	NO -- Camera System
113	100100.3	1	Radio, Fire, Installation, Purchaser Supplied (2)
114	100101.1	1	NO -- Intercom System
115	100324.1	1	Back Up Alarm
116	203773.3	1	Whelen Cencom Carbide, Electronic Siren
117	100313.1	1	Speaker, Whelen, #SA315P, 100 Watt
118	100310.2	1	Lightbar Mounting, Headache Rack, Alum, Enclosure Protection
119	100309.3	1	Lightbar, Whelen,Legacy, 54"
120	100315.3	1	Warning Lights, Whelen, M-7 Series (12) Lights
121	204217.1	1	California Emergency Light Compliance, Title 13
122	100332.3	1	Lettering, Cab, 3" Scotchlite Reflective, 50 Letters
123	100335.2	1	Door Graphic Emblems, (2) Custom
124	100338.4	1	Stripe, Cab/Body, Triple Reflective, 1" x 4" x 1"
125	100340.1	1	NO -- Keep Back Lettering
126	100343.3	1	Stripe, Reflective, SCOTCHLITE, Chevron, Front Bumper, Alum Bumper
127	100345.4	1	Stripe, Reflective, SCOTCHLITE, Chevron, Rear
128	100346.3	1	Capacities Placard, Reflective
129	596689.8	1	TFT nozzles
130	100350.2	1	Spanner Set, Kocheck, 2-Spanner / Hydrant, Mounted
131	100040.1	1	Chassis Prep, Commercial Chassis
132	100041.1	1	Label Seating (Based upon # of Seated Positions)
133	100042.1	1	Label, Data, Seat Belt, Chassis Manufacturer Supplied
134	100043.1	1	Label, Noise Danger, Personnel
135	100135.1	1	Label, Data, "Do Not Ride On Rear Step"
136	100136.1	1	Emblems, Skeeter Brush Trucks (5)
137	100196.2	1	Final Assembly, Skeeter Brush Trucks, Hillsboro, TX
138	100361.2	1	Operational Pump Test, SBT
139	100362.1	1	12V Electrical Load Analysis
140	100363.1	1	NFPA Certificate
141	100365.1	1	Road Test, 10 miles
142	100366.1	1	Skeeter Warranty, 5-Year Parts & Labor, 10-Year Body Integrity
143	100368.1	1	Pump Warranty, 3-Year Parts & Labor Detail
144	100369.1	1	Tank Warranty, Limited Lifetime

145	100351.1	1	Pre-Construction Conference, At Factory
146	100353.1	1	Payment Terms, 100% on Delivery and Acceptance
147	100356.2	1	Training, Factory Supplied, Factory location
148	100358.1	1	Delivery, Purchaser Pickup

Specification for:

NWCG Type 5 Wildland Engine
Ford F550 - 4x4 - Diesel - 4 Door
Rescue Side, Alum, 114

Submitted To:

Pete Pegadiotes , General Services Mgr
CITY OF SAN LEANDRO
Civic Center, 835 E. 14th Street San Leandro, CA 94577

Specification **5350**
November 30, 2020

Prepared by:

Daron Wright
Golden State Fire Apparatus, Inc.

Proposal

We are pleased to submit the following specifications to you for a **Duplicate to Previous Job #14504** per your request for quotation. The following paragraphs will describe in detail the apparatus proposed. Loose equipment not specifically requested will not be provided.

Skeeter Brush Trucks, LLC. a wholly owned company of Siddons-Martin Emergency Group, is a custom fire apparatus manufacturer specializing in Brush-Grass-Wildland fire fighting vehicles. Our 22,000 square foot manufacturing facility is located in Hillsboro, Texas and is operated by some of the most experienced wildland firefighting vehicle manufacturing individuals in the business. Our performance and quality minded approach to manufacturing generates some of the most reliable vehicles in the industry, thus yielding a very high return on investment.

Skeeter Brush Trucks, LLC. provides the very best sole source product and service solutions to the fire service. Skeeter Brush Trucks LLC carries $1,000,000 in liability insurance, with $3,000,000 in excess umbrella liability insurance. The opportunity to place this Skeeter Brush Truck in your department is greatly appreciated and we are certain it will fulfill your every requirement. We look forward to working for you.

Siddons-Martin Emergency Group sales and service professionals are dedicated and experienced in all aspects of the fire apparatus business. Our core business is the sales and service of fire apparatus.

Service Advantage

Siddons-Martin Emergency Group currently staffs sixteen (16) service centers located throughout Texas, Louisiana, and New Mexico, and maintains a fleet of service vehicles to provide on-site service of your SKEETER Brush Truck. The Siddons-Martin Emergency Group Service Department is dedicated to the fire service and provides service and maintenance exclusively on fire apparatus. Siddons-Martin Emergency Group employs numerous EVT trained technicians and is constantly engaged in continuing factory and EVT training classes and programs in order to stay abreast of the rapidly improving technologies incorporated within today’s fire apparatus. SMEG is an authorized sales and service dealer for Pierce Mfg., and an authorized service center for Waterous, Hale, and Darley fire pumps, and an OEM distributor for all major fire equipment accessories.

Construction and Design

Skeeter Brush Trucks body and component designs are engineered. Body construction (unless otherwise noted) is done in-house, using the best in design and materials. RBM's for body frames are among the very highest in the industry. Wiring harnesses are custom manufactured in-house, and meet or exceed OEM standards. All wiring is protected, run through conduit, and distributed through one, easily accessed, sealed control box.

Chassis Operation Manual

The chassis manufacturer shall provide one (1) operational manual.Â This manual may be in either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Fire Pump Operational Manual

A fire pump service, instruction, and operational manual shall be supplied.Â This manual may be in either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Foam System Operational Manual

A foam system service, instruction, and operational manual shall be supplied.Â This manual may be in either a notebook type binder, with reference tabs or a compact disk (CD) with all of the printed material in an electronic format (Adobe Acrobat PDF).

Apparatus Operational Manuals

The chassis manufacturer shall provide one (1) operational manual. This manual may be in either a notebook type binder, with reference tabs or USB thumb drive with all of the printed material in an electronic format (Adobe Acrobat PDF).

100044.2 - PAINT

1. Cab Color: Red
2. Cab Secondary Color: N/A
3. Description: Solid Red
4. Bumper Color: Brushed Aluminum
5. Wheel Color: Black
6. Body Color: Polished Aluminum
7. Cab Steps: Black Bed Liner

100520.3 - WINDOW TINT

Window tinting for all windows.

50% on rear side windows
5% on rear center window
NO TINT ALLOWED ON FRONT SIDE WINDOWS

100026.2 - CHASSIS SPECIFICATIONS

One (1) FORD F-550, two axle drive 4x4, dual rear wheels (DRW), four (4) door, XL, Crew Cab chassis

Wheelbase: 180"

Cab to Axle: 60"

Grille: black

Tow Hooks: front loops

Driving Front Axle and Suspension: 7,500# HD front package, 7,500# suspension package, stabilizer bar, front shocks, manual hubs

Transfer Case: cab manual controlled high and low range HD front package, manual hubs

Tires: two (2) front tires shall be 225/70R19.50, radial all weather/off road tread

Front Wheels: two (2) 19.50" x 6.00" steel disc, ten (10)-hole pattern ALUMINUM disc wheels

Rear Axle and Suspension: 14,706# wide track rear axle, 14,706# suspension package, stabilizer bar,

Differential Gears: 4.88 Gears, Limited slip Rear Differential

Tires: four (4) 225/70R19.50 radial all weather/off road tread

Rear Wheels: four (4) 19.50" x 6.00" steel disc, ten (10)-hole pattern ALUMINUM disc wheels

Braking System: four (4) wheel disc brake system with an Anti Lock (ABS)

Engine:
- Model: Power Stroke 6.7 turbo-charged diesel
- Number of Cylinders: Eight (8) "V" configuration
- Displacement: 6.7 liters
- Rated Brake Horsepower: 330 at 2800 rpm
- Rated Torque: 770 ft lbs
- Turbocharger

High Idle Control

Cooling System: a coolant mixture protected to -30 degrees Fahrenheit

Exhaust System: horizontally mounted, discharge on passenger's side aft of wheels

Fuel Tank: 40 gallon rear mounted, driver's side filler extension

DEF Tank:

Transmission: TorqShift six speed automatic

Steering: power steering system

Batteries: two (2) 78 amp-hr 750CCA 12-volt batteries

Alternator: single 220 amp 12 volt

Cab Construction: XL Series four (4) door aluminum construction, sun visors, tinted glass, roof clearance lights, grab handles interior

Mirrors: black manually telescope fold-away in/out for view adjustment.

Air bags front and air curtains side

Climate Controls: controls for heat, defroster, and air conditioning

Window and Door Controls: manual

Air Bags: driver's and passenger's front, seat side, and side curtain

Cab Instruments: standard type, six (6) rocker switches

Drivers and Passenger Seat: 40/20/40 vinyl bucket type seats with three (3) point safety harness. center flip down seat back. Split fold down rear seats

Printed Manuals: one (1) printed chassis operation manual

Cab Accessories: AM/FM radio, two radio speakers and antenna

Operator Controlled Manual Regen System

Jack and Lug Wrench Set

Color: Ford Race Red

100037.1 - POWER PACKAGE
The chassis shall be equipped with power locks, windows, and mirrors.

100045.1 - NO LIFT OR LARGER TIRES/WHEELS
No Lift or Larger Tires/Wheels shall be installed on the apparatus.

596566.3 - 2" LIFT
Customer wants to put a 2" lift on the chassis IPO the standard suspension.

596567.2 - TIRES & WHEELS
There shall be factory size aluminum polished wheels.

100451.2 - SPARE TIRE WHEEL
One (1) spare tire and wheel shall be 225/70 R19.50, radial all weather highway tread. Wheel for the spare shall be 19.50" x 6.00" ALUMINUM disc, ten (10) hole pattern steel disc.

100055.2 - MOUNTING SPARE TIRE AND WHEEL
The spare tire and wheel shall be mounted on top of the water tank.

100062.8 - FRONT BUMPER

The factory bumper shall be removed and replaced with a custom fabricated, heavy duty aluminum bumper and grille protection assembly.

THERE SHALL BE NO OFF-ROAD LIGHT HOLES IN THE BUMPER
BUMPER SHALL BE MOUNTED AS CLOSE TO THE CHASSIS AS POSSIBLE IN ORDER TO REDUCE THE OVERALL LENGTH OF THE VEHICLE

LICENSE PLATE BRACKET SHALL BE SHIPPED LOOSE WITH THE TRUCK

596572.3 - SHOVEL STORAGE TUBES, FRONT BUMPER

Two (2) shovel storage tubes shall be installed on the rear face of the grille guard uprights, one (1) each side. See picture

100058.1 - REAR MUD FLAPS

The chassis shall be supplied with mud flaps with the manufacturer's logo. The mud flaps shall be installed behind the rear wheels.

100063.1 - FRONT BUMPER SKID PLATE

A .250" aluminum skid plate will be installed from the bumper area extending below the bumper extension and chassis radiator area.

100065.1 - TRANSFER CASE SKID PLATE, LONG

A removable heavy .250" aluminum skid plate assembly shall be installed to protect the oil pan and transfer case.

100111.3 - CAB STEPS

The cab shall be equipped with steel tubing step assemblies, on each side of the cab.

100086.4 - CUSTOM FABRICATED CONSOLE AND SWITCH PANEL

A custom fabricated poly (plastic) electrical console and enclosure shall be located between the driver's and passenger's seats. It shall house the siren, switches, cup holder, and auxiliary equipment.

LAYOUT TO MIRROR 14333

100543.3 - 12 VOLT POWER SOURCES

Four (4) 12 volt plug-in utility power outlets rated at 15 amps shall be provided in cab.

LOCATIONS: Center console

100081.1 - WINCH -- FRONT MOUNTED

A Warn Winch Company Model #M15000 PN47801 15,000 pound capacity 12-volt electric powered winch shall be shall be permanently installed at the front center bumper extension area . The unit shall include the following:

a) 3.86 feet per minute pulling speed at 12,000 lb rated load
b) 440 amps at full capacity
c) Cable roller guide assembly
d) 90 feet of 7/16" diameter galvanized cable and hawse fairlead & safety hook assembly shall be supplied.
e) Winch speed shall be constant with forward and reverse modes controlled with a push button device at the end of a 12 feet (12') minimum control cable which connects to the winch through a weatherproof receptacle.

100178.1 - REAR RECEIVER

The rear of the chassis shall be equipped with one (1) square steel tube receiver assembly for high or low angle rescue, trailer use, and winch applications. It shall be the same size as a Class III trailer hitch and shall be attached to the chassis frame assembly. The receiver shall be rated at approximately 10,000 lbs.

100242.3 - FIRE PUMP SPECIFICATIONS

A Hale HPX75-KBD 24 fire pump with diesel engine radiator cooled shall be installed on the apparatus to meet the following performance criteria:

155 GPM @ 50 PSI

127 GPM @ 150 PSI
102 GPM @ 200 PSI
55 GPM @ 300 PSI

The pump shall include the following components:

Self Adjusting Mechanical Pump Seal
Bronze Alloy Impeller with Double seal ring design to eliminate end thrust
Renewable double-labyrinth type, solid Bronze Impeller Seal Ring
Precision-ground Stainless Steel Pump Shaft splined for broached impeller hubs. The pump shall have hard ceramic coating under the packing glands to reduce friction
Deep Groove Radial-Type Ball Bearings for pump shaft
High-strength aluminum alloy pump casing with bronze fittings
Aluminum alloy transmission cast with precision spur cut gears from heat-treated alloy steel
Dependable splash-type lubrication system
24 HP Kubota diesel powered engine
Adjustable mechanical type governor and throttle control lever
12-volt electric start with rope recoil backup
Automatic compression release
40 Amp alternator

There shall be an electric oil less primer assembly installed for the auxiliary fire pump. The electric primer assembly shall be capable of taking suction and discharging water with a lift of 10 feet in not more than 30 seconds with the pump dry, through 20 feet of suction hose of appropriate size. A vacuum test with a capped suction of at least 20' long shall develop 22" of vacuum and hold a vacuum with a drop not in excess of 10" in 5 minutes. Priming pump shall be activated by a mechanical/electric valve with a single pull control located at the pump operator's panel area.

Hale Products, Inc., herein referred to as Ã¢â¬Å¬Hale", warrants products of its manufacture to be free from defects in material and workmanship, under normal use and service, for a period of three years (3). This limited warranty is effective only if the equipment or apparatus is used as directed, is not subjected to misuse, negligence or accident, and is not altered, treated or repaired by someone other than Hale or its designee. Additional details can be found in the Skeeter user's manual for this vehicle.

LOW WATER CUTOFF SWITCH SHALL BE A MOMENTARY TOGGLE.

100423.2 - THERMAL RELIEF UNIT

There shall be a Trident model brass thermal relief valve installed in the manifold allowing auto dump at 143Â° water temperature. The thermal relief valve shall auto close at 118Â° water temperature. There shall be a hose directing water under the body, but in a location visible by the pump operator.

100272.2 - STAINLESS STEEL PLUMBING SYSTEM

The auxiliary fire pump plumbing system shall be built mostly of stainless steel piping, fittings, and connections. Victaulic couplings shall be installed to permit flexing of the plumbing system and allow for quick removal of piping or valves for service. Tank connections and remote plumbing shall use high-pressure flexible piping. Flexible hose couplings shall be threaded stainless steel or Victaulic connections.

100285.1 - VALVES

All valves used in the plumbing installation shall be stainless steel quarter turn full flow type.

The plumbing installation shall include quarter turn ball valves with local "on-valve" handle control, with custom embossed labeling for each valve.

100263.2 - EXHAUST SYSTEM

The auxiliary fire pump and engine assembly shall have a muffler and vertical exhaust pipe. The exhaust pipe shall be directed upward and away from the pump operator. A rain cap shall be installed on exhaust pipe extension.

100307.1 - PRIMER ASSEMBLY

There shall be an electric oil less primer assembly installed for the auxiliary fire pump. The electric primer assembly shall be capable of taking suction and discharging water with a lift of 10 feet in not more than 30 seconds with the pump dry, through 20 feet of suction hose of appropriate size. A vacuum test with a capped suction of at least 20' long shall develop 22" of vacuum and hold a vacuum with a drop not in excess of 10" in 5 minutes. Priming pump shall be activated by a

mechanical/electric valve with a single pull control located at the pump operator's panel area.

100266.2 - FIRE PUMP ENCLOSURE

The fire pump house shall be installed around the pump and engine. The enclosure shall be fabricated of .125" aluminum tread plate. Hinged doors and access panels shall be installed for servicing of the engine.

An engine and pump control panel shall be provided at the rear of the vehicle. The following shall be located at the operator's position:

2.5" discharge pressure gauge
start/stop control
throttle control
low oil pressure warning light
tachometer

The pump control panel shall be mounted on pump enclosure.

100419.1 - SECONDARY PUMP CONTROLS

The cab shall be equipped with a secondary pump instrument control panel in the cab. This panel shall include the following:

1. On-off start switch
2. Oil and temperature alarm
3. Running indicator light - green
4. Pressure gauge
5. Manual vernier throttle

100534.2 - LOW WATER PRESSURE CUT-OFF

There shall be a low water pressure cut-off switch that will shut off the pump engine when pump pressure is lost. There shall be a manual override switch to bypass the cut-off.

LOW PRESSURE SWITCH SHALL BE A MOMENTARY TOGGLE

100267.1 - FUEL SYSTEM TO DIESEL FUEL TANK

The fuel system for the auxiliary fire pump shall be plumbed to the chassis fuel system. There shall be a separate fuel pickup tube mounted in the chassis fuel tank specifically for a separate engine driven pump assembly.

There shall be an electric fuel pump with spin on fuel filter and flexible fuel hose furnished between the chassis fuel tank and the auxiliary pump.

100256.2 - ELECTRIC START WIRING TO CHASSIS

The 12 volt positive and negative cables shall be provided from the chassis battery to the fire pump area. The cables shall have a circuit breaker installed at the chassis battery.

THE FIRE PUMP WILL HAVE LIVE PUMP WIRING, TO ALLOW THE FIRE PUMP TO OPERATE WHEN THE CHASSIS IS TURNED OFF.

100254.1 - PUMP ENGINE OIL DRAIN

The fire pump engine shall have an oil drain line installed. It shall allow for easy oil draining.

100255.2 - AUXILIARY FIRE PUMP MOUNTING PROVISIONS

The auxiliary fire pump shall be installed at the center rear of the body. The sub-structure shall have welded in mounting sub-plates between the structural members.

MATCH 14333

100273.1 - FRONT BUMPER MANIFOLD SUPPLY

There shall be an 1.5" stainless steel valve, with a flexible supply hose installed to feed the front discharge manifold.

100270.2 - 2-1/2" GATED INTAKE -- REAR

One (1) 2-1/2" gated suction intake shall be installed on rear area to supply the fire pump from an external water supply. The valve shall be a controlled with a direct quarter-turn ball valve control handle and shall have 2-1/2" NH female thread with removable screen with plug.

100283.1 - TANK TO PUMP LINE INSTALLATION

The 2.5" tank to pump line shall be installed with a flexible hump hose connection and stainless steel clamps to the water tank. The valve shall be controlled with a manually operated handle directly on the valve.

100281.2 - WATER TANK FILL AND COOLING LINE

One (1) 1" fire pump to water tank refill and bypass cooler line shall be provided. The pump to tank valve shall be a 1" full flow quarter turn ball valve with local control handle. A 1" flex hose shall be installed to the water tank.

100278.2 - 3/4" GARDEN HOSE DISCHARGE -- REAR

One (1) .75" garden hose discharge shall be installed on the rear pump area, controlled by a quarter turn ball valve with local control handle. The discharge shall have a .75" male garden hose threads and cap.

100274.2 - 2-1/2" DISCHARGE -- REAR

One (1) 2-1/2" discharge shall be installed at the rear pump area, controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NH male hose threads. The discharge shall be equipped with 2-1/2" female x 1-1/2" chrome plated brass reducer, 1-1/2" chrome cap and chain.

100441.1 - FRONT OF BODY DISCHARGE (THROUGH THE TANK)

A 1.5" discharge shall be piped from the rear pump area to the front on the body. A 1.5" master control valve shall be installed at the rear pump manifold area with direct control handle.

203717.2 - 2 1/2" NST 30 DEGREE ELBOW

There shall be one (1) 30 degree 2 1/2" NST elbow supplied.

100290.4 - HOSE REELS (2)

Two (2) Hannay aluminum hose reels shall be installed. The reels shall have leak proof ball bearing swing joints, adjustable friction brakes, electric 12 volt rewind and manual crank rewind provisions. The reels shall be plumbed with wire reinforced, high-pressure hose coupled with brass fittings. The reels shall be designed to hold 125% of the specified hose capacity.

The reels shall be installed at the front outside corners of the body, above the transverse compartment, facing outward, one (1) each side. Control valves for the reels shall be located at the reels.

REELS TO HAVE NPSH THREADS

100293.2 - REEL CAPACITY (Qty: 2)

Each hose reel shall have a capacity of 100 feet of hose.

100295.5 - HOSE REEL DISCHARGES (2) (Qty: 2)

Two (2) 3/4" discharges shall be piped from the fire pump to the hose reels with flexible high pressure hose. The quarter turn ball valves shall be controlled on the manifold.

100302.4 - NOZZLE MOUNT (Qty: 2)

There shall be an aluminum angle bracket installed at each hose reel on the hand rail in place of a nozzle holder.

100297.6 - HOSE REEL HOSES (Qty: 2)

One (1) 100' foot length of 3/4" water hose shall be installed on each hose reel. The hose shall be equipped with NPSH threaded couplings and have a 300 PSI working pressure.

100280.4 - GROUND SWEEP DISCHARGES -- FRONT BUMPER

One (1) 1.5" front bumper ground sweep discharge piping shall be piped to the front bumper area. The discharge shall be controlled by an 1.5" manual override valve at the rear pump area. Flexible 1.5" diameter high pressure hose shall be provided from the pump to the sweep nozzles with low point drains where necessary.

Two (2) ground sweep discharge nozzles shall be installed, one each side of the front bumper. Each nozzle shall have an 1"

electric control valve, switched independently in the cab. The discharges shall be equipped with removable ground sweeps nozzles angled accordingly with a 180 degree total front sweep pattern. The flow rate shall be 15-30 gpm.

Each nozzle shall have a custom fabricated brush guard installed to protect from damage when off road. The valves and manifold shall be protected from damage by the front bumper and skid plate.

100261.2 - FOAM SYSTEM

A FoamPro part number S106-1600/2.0 electronic foam system shall be provided. The system shall be designed for use with Class A foam concentrate. The foam proportioning operation shall be designed for direct measurement of water flows and shall remain consistent within the specified flows and pressures. The system shall be capable of accurately delivering foam solution as required by applicable sections of the NFPA standards.

The system shall be equipped with a control module suitable for installation on the pump panel. There shall be a microprocessor incorporated within the motor driver that shall receive input from the system's flow meter, while also monitoring the foam concentrate pump output. The microprocessor shall compare the values to ensure that the desired amount of foam concentrate is injected onto the discharge side of the fire pump. A "foam capable" paddlewheel-type flow meter shall be installed in the discharge side of the piping system.

The control module shall enable the pump operator to:

1. Activate the foam proportioning system
2. Select the proportioning rates from 0.1% to 1.0%
3. See a "low concentrate" warning light flash when the foam tank level becomes low and in two (2) minutes, if the foam concentrate has not been added to the tank, the foam concentrate pump shall be capable of shutting down.

A 12-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity range shall be 0.1 to 1.7 GPM at 200 PSI with a maximum operating pressure of 400 PSI. The system shall draw a maximum of 30 amps at 12 volts. The motor shall be controlled by the microprocessor which shall be mounted to the base of the pump. It shall receive signals from the control module and power the 1/3 horsepower electric motor in a variable speed duty cycle to ensure that the correct proportion of concentrate is injected into the water stream.

A full flow check valve shall be provided in the discharge piping to prevent foam contamination of the fire pump and water tank. A 5 PSI opening pressure check valve shall be provided in concentrate line.

Components of the complete proportioning system as described above shall include:

1. Operator control module
2. Paddlewheel flow meter
3. Pump and electric motor/motor driver
4. Wiring harnesses
5. Low level tank switch
6. Foam tank
7. Foam injection check valve
8. Main waterway check valve
9. Flowmeter and tee with NPT threads.

The foam system shall be installed and calibrated to manufacturer's requirements. In addition the system shall be tested and certified by the apparatus manufacturer to applicable NFPA standards.

The foam system design shall be tested and pass environmental testing in accordance with SAE standards. An installation and operation manual shall be provided for the unit. The system shall have a one (1) year limited warranty by the foam system manufacturer.

The FoamPro 1600 Series foam system shall be provided with a six (6) foot control cable from the controller to the foam pump assembly. The FoamPro 1600 Series foam system shall be provided with a standard pump panel mounted FoamPro control head.

A FoamPro part number 2660-0032 brass flowmeter shall be provided. The flowmeter shall be installed in the "foam capable" discharge line. The flowmeter shall have maximum accuracy between the flow range of 15 GPM and 520 GPM and be capable of operation between 5 GPM to 625 GPM. The tee shall have NPT and Victaulic inlet and outlets connections.

A FoamPro part number 6032-0018 instruction and system rating label shall be provided. The label shall display information

for a FoamPro 1600 Series foam system and shall meet applicable sections of the NFPA standards. A FoamPro foam system schematic label shall be installed on the pump panel near foam controls. The label shall be a diagram of the FoamPro 1600 foam system layout and shall meet applicable sections of the NFPA standards.

A SECOND POWER SWITCH SHALL BE PROVIDED AND MOUNTED IN THE CENTER CONSOLE.

100226.1 - WATER TANK GAUGES

One (1) Class 1 "Intelli-Tank" water tank level gauge shall be installed on pump panel. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 tank. A pressure transducer shall be mounted on the outside of the tank in an easily accessible area.

CAB MOUNTED -
One (1) Class 1 112124 Ã¢â¬Å Intelli-Tank" mini water tank level gauge shall be installed in the cab or center console. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 tank.

100200.1 - WATER TANK SPECIFICATIONS

The water tank shall have a capacity of 400 gallons.

100205.1 - NFPA COMPLIANCE

The water tank construction shall conform to applicable NFPA standards.

100206.1 - WATER TANK SIGHT GAUGE

The water tank shall be equipped with clear water level sight gauge in the rear wall of the tank.

100207.2 - FILL TOWER LOCATION

The tank fill tower shall be located in the driver's side rear corner of the water tank.

100209.1 - VENT AND OVERFLOW

The fill tower shall incorporate a vent and overflow system shall be designed into the water tank. The system shall include a 3" diameter pipe that functions both as an air vent while emptying the tank and as an overflow when filling the tank. The overflow shall discharge excess water below the frame rails of the vehicle.

100212.1 - TANK SUMP

A sump shall be installed in a central location in the bottom of the water tank. The tank-to-pump suction line shall be installed that will incorporate a dip tube type intake from the sump location. The tank shall be equipped with an anti-swirl plate located approximately 2-1/2" above the sump area.

100213.1 - TANK TO PUMP CONNECTION

A 3" pipe shall be provided on the water tank for connection of the tank to the suction side of the pump with a flexible hump hose assembly. The tank suction valve and hump hose required to complete this connection shall be supplied by the final assembler.

100214.1 - PUMP TO TANK CONNECTION

A 1" connection shall be provided on the water tank for connection of the discharge side of the pump to the tank for filling purposes. The valves and hose required to complete this connection shall be supplied by the final assembler.

100216.1 - WATER TANK DRAIN PROVISIONS

A 1.5" plugged drain provisions shall be installed in the bottom of the water tank, sump, or plumbing for water tank draining and flush-out of debris.

100228.1 - FOAM TANK SPECIFICATIONS

The Class A foam tank shall have a capacity of 20 gallons.

100232.1 - FOAM TANK AND VENTING PROVISIONS

The foam concentrate tank shall be provided with a fill pipe having a volume of not less than 2 percent of the total tank volume. The filler opening shall be capped with a sealed air-tight threaded cover. The fill opening shall be designed to incorporate a removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped into the tank.

The foam tank filler shall be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent shall not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent shall be protected to prevent foam concentrate from escaping or directly contacting the vent at any time. The vent shall be of sufficient size to prevent tank damage during filling or foam withdrawal.

A color coded label or visible permanent marking that reads "CLASS A -- FOAM TANK FILL" shall be placed at or near the foam concentrate tank fill opening. An additional label shall be placed at or near any foam concentrate tank fill opening stating the type of foam concentrate the system is designed to use.

Any restrictions on the types of foam concentrate that can be used with the system shall also be stated, along with a warning message that states "WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM."

100233.1 - FOAM SYSTEM PIPING

A 3/4" fitting shall be provided on the foam tank for connection of the foam tank to the suction side of the foam system.

100235.1 - FOAM TANK DRAIN AND VALVE PROVISIONS

A 3/4" diameter connection, piping, and valve shall be installed for the foam tank for draining purposes.

100239.1 - FOAM TANK GAUGES

One (1) Class 1 foam tank level gauge shall be installed on pump panel. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 tank. A pressure transducer shall be mounted on the outside of the tank in an easily accessible area.

CAB MOUNTED
One (1) Class 1 112124 Ã¢â¬Å Intelli-Tank" mini foam tank level gauge shall be installed in the cab or center console. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 of a tank.

100549.5 - CUSTOM RESCUE SIDE ALUMINUM BODY, 6" RAILS

The body will be a custom fabricated severe service rescue-side type, constructed of all aluminum. The body shall be 114" long by 96" wide, designed for a 60" cab to axle dimension. The body shall be specifically designed and engineered for off-road wildland firefighting.

MAIN FRAME
The body shall have 6" x 1.75" structural aluminum channel main frame rails. The body frame rails shall be isolated from the truck frame by .500" industrial isolators.

SUB-FRAME
The cross-members shall be 3" x 2 5/16"" structural aluminum I beams with cross-members on 12" centers.

MOUNTING
The body shall be bolted to the chassis frame rails at the rear end of the frame. There shall be brackets installed at the middle of the body frame to prevent side to side movement. The body shall be spring mounted at the front of the body frame. The flexible mounting system shall allow for body/chassis flexing during extreme off road conditions.

HEADACHE RACK
The front of the body shall have a 2" formed aluminum tube headache rack. The rack shall extend the full width of the body and be attached to the front body corners. The assembly shall extend above the chassis cab and have mounting platform for installation of the light bar and two work lights. Wiring for the lights will be placed inside the tubing for protection. The headache rack shall have four (4) vertical 2" tubes for extra strength.

FUEL FILLER
The fuel filler tube and cap shall be installed at the driver's side, rear of the body.

FENDER PANELS
The lower portion of the flat-bed body shall have fender panels over and aft of the rear wheel panel area. The panels shall be constructed of polished aluminum tread plate. The wheel well openings will be cut out to conform to the wheels.

REAR BODY PANEL
A vertical body panel shall be installed at the rear of the body constructed of .125" smooth aluminum. The panel shall house the running lights, taillights, back-up lights, and emergency lights. The body panel shall be angled to allow for a 27 degree

angle of departure.

PROTECTIVE RAILS
The upper body area shall be protected with radius corner 1" diameter aluminum tube railing assembly installed around the top of the body. The corners of the body shall have vertical risers space in critical areas. The railings shall act as protection for the upper body structures when off road in heavy brush conditions. The rear upper body corner rails shall house the upper emergency lights and work lights.

REAR VERTICAL RAILS TO BE WIDENED, TURNING DOWNWARD JUST INSIDE INBD WALL OF COMPARTMENTS

SIDE BODY COMPARTMENTS, FRONT BODY -- DRIVER AND PASSENGER'S SIDES
Two (2) body equipment storage compartments shall be installed at the front of the body just behind the headache rack, one each side of the apparatus. The dimensions shall be approximately: 30" wide, 44" high, and 24" deep. The compartments shall be constructed of .125" aluminum tread plate on all exterior surfaces. Each compartment shall be equipped with a vertically hinged door with a single latch installed. The doors shall be equipped with gas operated door opening assistant cylinders.

Each vertical compartment shall have one (1) fixed shelf.

The compartment floors shall be lined with turtle tile.

596632.2 - TULIP CLIPS
Two (2) small tulip clips shall be installed on aluminum brackets at the rear of the bed, one (1) each side, below the side facing Rigid lights. See picture.

100121.1 - ANGLED CORNERS, FLAT-BED
The front corners of the flat-bed body will be angled at approximately 45 degrees.

100437.4 - FRONT BODY TRANSVERSE COMPARTMENT
A transverse compartment 15"W x 24"H x 96"L will be installed in front of the water tank. The compartment shall be lined with turtle tile.

100144.3 - DRIVERS SIDE UPPER BODY COMPARTMENT
A body equipment storage compartment shall be installed on the flatbed surface, driver's side of the apparatus. The exterior dimensions shall be approximately 55" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" aluminum tread plate on all exterior surfaces. The compartment shall be equipped with a lift up door with latch installed. The door shall be equipped with dual gas operated door opening assistant cylinders. Turtle tile shall be installed on the floor.

A second compartment shall be installed aft of the above. The dimensions shall be 22"W x 24"H x 18" D. Materials shall be the same as above.

The actual door openings shall be approximately 3" smaller in dimension.

100148.2 - PASSENGERS SIDE UPPER BODY COMPARTMENT
A body equipment storage compartment shall be installed on the flatbed surface, passenger's side of the apparatus. The exterior dimensions shall be approximately 55" wide, 24" high, and 18" deep. The compartment shall be constructed of .125" aluminum tread plate on all exterior surfaces. The compartment shall be equipped with a lift up door with latch installed. The door shall be equipped with dual gas operated door opening assistant cylinders. Turtle tile shall be installed on the floor.

A second compartment shall be installed aft of the above. The dimensions shall be 22"W x 24"H x 18"D. Materials and construction shall be the same as above.

The actual door opening shall be approximately 3" smaller in dimension.

100585.1 - UNDER BODY COMPARTMENTS -- REAR BODY, D/S AND P/S
Two (2) under flat bed equipment storage compartments shall be installed under the flatbed surface, on the passenger's and driver's side of the apparatus, behind the rear axle. The exterior dimensions shall be approximately: 20" wide, 15" high, and 23" deep. The compartments shall be constructed of .125" aluminum on all exterior surfaces. The compartments shall be equipped with a vertically hinged door with latch installed. The compartment shall have turtle tile installed.

100159.5 - UNDER BODY COMPARTMENT -- REAR CENTER

An under body equipment storage compartment shall be installed under the flatbed surface located in the center rear of the apparatus. The dimensions shall be approximately: 33" wide, 6" high, and 108" front to rear. The compartment shall be for by the vertical body beams, upper floor surface, and an aluminum lower floor area. The compartment shall be equipped with a hinged drop down door with dual latches installed.

SHALL HAVE TWO (2) DIVIDERS ON P/S FOR HARD SUCTION

100166.3 - REAR SLIDE-OUT TRAY

The rear center compartment shall be equipped with an .190" aluminum slide out tray on UHMW plastic slide pads. The tray shall be full width and full length of the compartment interior.

100160.2 - INTERIOR COMPARTMENT VENTILATION LOUVERS

The interiors of the compartments shall be provided with louvered ventilation units.

100161.1 - COMPARTMENT DOOR KEY LOCKS

The hinged compartment doors shall be equipped with key type door locks.

100425.3 - COMPARTMENT LIGHTING, STRIP LIGHTS

Each upper body compartment shall be equipped with RED 40" LED strip light, installed on the upper side of the door opening.

100163.1 - AUTOMATIC COMPARTMENT DOOR LIGHT SWITCHES

Each exterior compartment light shall be automatically controlled by a door activated switch.

100164.3 - DOOR AJAR LIGHT

A "door ajar" or equipment operation warning light shall be installed on cab dash. The light shall be flashing BLUE LED light with a clear lens.

596646.3 - STOKES BASKET STORAGE

There shall be provisions to store a CMC 726112 (see hyperlink) on top of the body. It shall be installed inside the transverse compartment. The exact design shall be determined at the pre-construct conference. More

100169.5 - HOSE TRAY -- DRIVERS SIDE

A hose storage tray shall be installed over the driver's side equipment compartment, on the driver's side of the apparatus. The dimensions shall be approximately: 16" wide, 12" high, and 72" long. The hose tray shall be constructed entirely of .125" aluminum tread plate on all exterior surfaces. The assembly shall be equipped with a hinged lift up aluminum tread plate door on top, enclosed front panel, and open rear area. The hose tray shall be equipped with Turtle Tile floor covering.

100172.5 - HOSE TRAY -- PASSENGERS SIDE

A hose storage tray shall be installed over the passenger's side equipment compartment, on the passenger's side of the apparatus. The dimensions shall be approximately: 72" long, 16" wide, and 12" high. The hose tray shall be constructed entirely of .125" aluminum tread plate on all exterior surfaces. The assembly shall be equipped with a hinged lift up aluminum tread plate door on top, enclosed front panel, and open rear area. The hose tray shall be equipped with Turtle Tile floor covering.

100180.3 - REAR PULL OUT STEP (Qty: 2)

There shall be a rear "Pull-Out-Fold-Down" step located at the rear of the apparatus, step shall be stowed in a pocket under the rear of the unit. Storage pocket shall be fabricated to allow easy access to deploying for operation.

There shall be two (2) body access steps located at the front corners of the body, one (1) each side.

100181.2 - FOLDING STEP

A Signature 4 lighted 8" square folding step of die cast zinc shall be installed. The step shall comply with NFPA non-slip standards and shall be installed on the rear driver's side of the body. The step shall be equipped with lighting to NFPA standard.

100325.8 - ELECTRICAL ENCLOSURE

An electric wiring enclosure for the 12 volt wiring shall be installed in the front wall of the driver's side upper body compartment with a access panel. The dimensions of the enclosures shall be approximately 20" high, 14" wide, and 4" deep.

D/S UPPER BODY COMPARTMENT, FWD WALL

100326.2 - 12 VOLT ELECTRICAL SPECIFICATIONS

The following describes the low voltage electrical system on the apparatus including all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The apparatus manufacturer shall conform to the latest Federal DOT standards, current automotive electrical system standards and the applicable requirements of the NFPA.

Wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for which the circuit is protected. Voltage drops shall not exceed 10 percent in all wiring from the power source to the using device. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. Exposed wiring shall be run in a loom with a minimum 289 degree Fahrenheit rating. Wiring looms shall be properly supported and attached to body members. Electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

All wiring connections and terminations shall provide positive mechanical and electrical connections and be installed in accordance with the device manufacturer's instructions. When wiring passes through metal panels, electrical connections shall be with mechanical type fasteners and rubber grommets

Wiring between cab and body shall be split using connectors or enclosed in a terminal junction panel allowing body removal with minimal impact on the apparatus electrical system. Connections shall be crimp-type with heat shrink tubing with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather resistant connectors shall be provided throughout the system.

Electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. When required, automatic reset breakers and relays shall be housed in the main body junction panel.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless enclosed in an electrical junction box or covered with a removable electrical panel. Wiring shall be secured in place and protected against heat, liquid contaminants and damage.

Low voltage overcurrent protective devices shall be provided for the electrical circuits. The devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. Overcurrent protection devices shall be automatic reset type suitable for electrical equipment and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. Electro-magnetic interference suppression shall be provided in the system as required in applicable SAE standards.

The electrical system shall include the following:

Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. All terminal plugs located outside of the cab or body shall be treated with a corrosion preventative compound.
All electrical wiring shall be placed in a protective loom or be harnessed.
Exposed connections shall be protected by heat shrink material and sealed connectors.
Large fender washers shall be used when fastening equipment to the underside of the cab roof and all holes made in the roof shall be caulked with silicone.
Electrical components installed in exposed areas shall be mounted in a manner that will not allow moisture to accumulate inside.
A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.
All lights in a weather exposed area that have their sockets shall have corrosion preventative compound added to the socket terminal area.
Warning lights shall be switched in the chassis cab with labeled rocker type switches located in an accessible location. Individual rocker switches shall be provided only for warning lights provided exceeding the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be appropriately identified as to their function and mounted on a switch panel mounted in the cab convenient to the operator. For easy nighttime operation, an integral indicator light shall be provided to indicate when a circuit is energized.

100327.1 - ELECTRICAL HARNESS AND WIRING

All wiring shall be hidden, enclosed, or protected under the body in protective material, or within the apparatus body components. In addition, split loom conduits shall be installed and enclosed, suitably secured and protected against heat and physical damage.

100090.2 - BATTERY MASTER DISCONNECT

A battery disconnect system shall be installed to control the 12 volt power supply from the battery system to the body and cab final stage manufacturer installed equipment. The solenoid shall be controlled by the standard key starter switch.

THE FIRE PUMP WILL HAVE LIVE PUMP WIRING TO ALLOW THE FIRE PUMP TO OPERATE WHEN THE CHASSIS IS TURNED OFF.

100094.10 - BATTERY CHARGER AND120 VOLT SHORE POWER RECEPTACLE

A Kussmaul Autocharge 1000 model #091-215-12-194B, high output automatic battery charger shall be provided. The battery charger shall be wired to the 12 volt battery system. The unit shall be mounted in a clean, dry area accessible for service and/or maintenance. It shall be wired to the specified shore power receptacle.

It shall include a 091-194-IND Digital Status Display Center.

It shall also include a 091-55-15-120 15 amp "auto-eject" shore power receptacle with hinged weatherproof cover and an enclosure for protection from dirt and damage. The shore power plug shall be "ejected" when the chassis' engine starter is engaged and the receptacle shall be wired to any 120 volt A/C equipment requiring shore power.

Location shall be: rear body panel, driver's side, below M7, DISPLAY ABOVE AUTO-EJECT

CHARGER TO ME MOUNTED IN REAR CREW CAB AREA UNDER BENCH SEAT

100328.1 - DOT IDENTIFICATION LIGHTS

All LED identification lights shall be installed on the vehicle as required by applicable highway regulations.

100329.1 - LICENSE PLATE MOUNTING

An LED license plate light shall be installed on the rear vertical wall of the body.

100330.2 - BRAKE, TURN, TAIL LIGHTS

Two (2) Whelen M6 Series Model M6BTT 4-5/16" x 6-3/4" brake, turn, tail lights with M6FC chrome flanges shall be provided. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthead configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens. The lightheads shall be surface mountable via two screws.

The lightheads shall utilize optic collimators and chrome vacuum metalized reflectors for maximum illumination. The lighthead shall include 164 flash patterns including: a variety of CA Title 13 compliant, sinkable, left/right, top/bottom, in/out, and steady burn. The lightheads shall have the Whelen exclusive NERM (Non-Emergency Recognition Mode) feature.

The lens/reflector assembly shall be wet sealed and resistant to: water, moisture, dust, and other environmental conditions. The outer lens shall have a hard coating applied to increases strength and ensure longevity. The light engine shall be installed at the rear of the unit and be completely sealed. The pc board shall be conformal coated for additional protection.

The lights shall be furnished with five 6" wire pigtails, a Santoprene rubber gasket and the #M6FC chrome flanges shall be included for installation.

100331.1 - BACK-UP LIGHTS

Two (2) Whelen M-Series, 4" x 6" rear LED back-up lights shall be installed.

100096.1 - TRAILER PLUG

Wiring shall be provided at the rear of the apparatus for the towing of an auxiliary trailer. A 12 volt seven (7) pin electrical connector shall be wired to the chassis stop, running, and turn lights.

100067.1 - OFF ROAD LIGHTS

No off road lights shall be installed.

100070.1 - NO BUMPER GROUND LIGHTS
There shall be no under bumper ground lights installed.

200312.2 - GROUND LIGHTS, CAB, 2 DOOR, LED STRIPS
Two (2) LED ground strip lights shall be installed under the cab step area in compliance with NFPA standards, one (1) on each side of the apparatus, wired to the Cencom.

100182.5 - GROUND LIGHTS - UNDER REAR STEP
Two (2) Grote #63871 LED ground lights shall be installed under the rear step area, one on each side of the apparatus.

100184.3 - WORK LIGHTS
Four (4) Grote #63871 LED step lights with clear lens shall be installed, wired to switch on the Cencom. Location shall be: in each corner of the protective tubing assembly to light the pump panel and the front body walkway area.

100318.3 - FRONT BUMPER SCENE LIGHTS
A Rigid Manufacturing E series 12031 20" spot/flood light shall be installed. The LED scene lights shall incorporate clear LED's with a clear optic polycarbonate lens for maximum illumination.

Location shall be: ON THE FWD FACE OF THE BUMPER, AT THE TOP CORNER. SEE PICTURE

100322.1 - SCENE LIGHTS
Six (6) Rigid Manufacturing Dually 20211 scene lights shall be installed. The LED scene lights shall incorporate clear LEDs with a clear optic polycarbonate lens for maximum illumination.

Location shall be: Two (2) outward facing, each side of body, two (2) rear facing.

100100.3 - RADIO INSTALLATION
There shall be two (2) fire radio holes installed in the center console for department radios. The exact layout and dimensions shall be determined at the pre-construct conference.

There shall be two (2) radio antennas installed at the direction of the department.

APX EXCITE WIRE TO BE WIRED HOT

100324.1 - BACK-UP ALARM
One (1) Buyers #BA107 back up alarm shall be installed.

203773.3 - ELECTRONIC SIREN
One (1) Whelen, Model #CCSRNT4G CenCom Carbide siren with auxiliary switches with noise canceling microphone shall be provided. Siren head will be mounted on the center console in easy reach of the driver.

SLIDE 3 TO ACTIVATE WAIL
HORN RING FUNCTION TO ACTIVATE YELP
ADD PARK KILL FUNCTION

100313.1 - SIREN SPEAKER
One (1) Whelen Model #SA315P Projector Series siren speaker shall be provided with bracket. The 100 watt siren speaker shall be designed in a black nylon composite housing with 123 decibel rating.

Location shall be: Behind the front bumper.

100310.2 - MOUNTING OF LIGHT BAR WITH PROTECTIVE GUARD
The lightbar shall be mounted on the headache rack shelf with an aluminum brush guard protective assembly.

100309.3 - LIGHTBAR
A Whelen Legacy low profile Super-LED NFPA lightbar shall be installed. The 54" lightbar shall be designed to meet the

minimum clearing requirements for Zone A Upper. The internal components of the lightbar shall be housed within a two piece extruded aluminum base/top. The outer shell shall be clear optic polycarbonate lenses designed to maximize light output and shield against environmental elements.

The lightbar shall utilize snap-in brackets to hold in the lightheads. The brackets shall give the end user the ability to make quick repairs. The lightbar shall have all solid state components. The lightbar shall have two wire harnesses exiting the unit: one (1) 17 conductor 22 gauge control cable which controls all internal light functions; and one (1) 2 conductor 10 gauge cable for main power and ground. Each cable shall be 15' long.

The lightbar shall have four (4) red Linear Super-LED corner modules to provide off angle protection for the front and rear of the vehicle. Each corner module shall consist of twelve (12) Super-LEDs mounted within a vacuum metalized parabolic reflector. The corner module shall also utilize an optic collimator for maximum light output. The twelve (12) LEDs shall be mounted in one straight line.

The solid state I/O board shall be microprocessor controlled. The I/O board shall have built-in reverse-polarity protection and output-short protection. The board shall have the ability to flash sixteen (16) LED warning lights. There shall be a data bank of 13 Scan-Lock flash patterns including steady burn. The board shall also have outputs to add takedown and alley lights. Low power and cruise light function shall also be included. The cruise light function shall allow the user to employ the four (4) corner modules as marker courtesy lights.

The lightbar shall include clear "Take Down" and "Alley Lights" included.

The lightbar shall have an amber "Traffic Advisor" built into the rear portion of the lightbar.

The lightbar flash pattern shall be CA Double Flash 90.

100315.3 - NFPA WARNING LIGHTS

ZONE A -- LOWER FRONT WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights and a chrome flange shall be in the front forward facing area of the front bumper. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthead configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens. The lightheads shall be surface mountable via two screws. The lightheads shall utilize an optic collimator and a chrome vacuum metalized reflector for maximum illumination.

RED LED/CLEAR LENS

ZONE B AND D -- INTERSECTION LIGHTS
Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights and a M6FC chrome flange shall be installed on bumper extension, as far forward as possible. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthead configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

RED LED/CLEAR LENS

ZONE B AND D -- LOWER REAR CORNER WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights and a chrome flange shall be installed in lower rear side corner body area. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthead configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

RED LED/CLEAR LENS

ZONE B AND D -- UPPER SIDE REAR WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights and a M6FC chrome flange shall be installed in the upper rear body side panel. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthead configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

RED LED/CLEAR LENS

ZONE C -- UPPER REAR WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights and a chrome flange shall be installed in the upper rear corner of the handrails. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthead configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

RED LED/CLEAR LENS

ZONE C -- LOWER REAR WARNING LIGHTS
Two (2) Whelen M-7 Series Model #M7RC 3" x 7" warning lights and a chrome flange shall be lower rear of body. The warning lights shall incorporate Linear Super-LED and Smart LED technology. The lighthead configuration shall consist of 18 red Super-LEDs and a clear optic polycarbonate lens.

RED LED/CLEAR LENS

204217.1 - CALIFORNIA EMERGENCY LIGHT COMPLIANCE

The following items shall be included in order to comply with California state law Title 13:

1) There shall be one (1) steady red light on the front of the vehicle in the lightbar.

2) All clear forward facing lights be disabled when the parking brake is set.

3) A wire has to be run to â□□hook up the park brake wire to disable clear lights in lightbarâ□□.

4) All warning lights has to have their flash patterns set to being â□□California title 13 compliantâ□□.

100332.3 - CAB REFLECTIVE LETTERING

Want printed vs cut graphics, main logo center on the door and other logo on the side, eagle to face towards the front on both P/S and D/S, graphics on rear chevron in black lettering D/S to read FIRE and P/S to read E-5161 or E-5162, front of hood to read P/S CA-MTR and D/S to read FIRE, on D/S and P/S of the hood to read E-5161 or E-5162, no chevron on the front wheel well, chevrons on side of compartment to be facing front with lettering to read MTR - FIRE , start with feather prior to chevron and lettering on the rear compartments, mission statement on the back doors, compartments to be numbered as followed D/S compartment numbers are ODD numbered, P/S compartment numbers are EVEN numbered

100335.2 - CUSTOM GRAPHICS

The customer shall supply door logos for installation by Skeeter

100338.4 - REFLECTIVE STRIPING

See graphics drawing

100343.3 - FRONT CHEVRON STRIPING

There shall be alternating chevron striping installed across the front bumper where permitted. The chevron striping shall consist of 6" diamond grade striping in the following colors:

Red diamond grade

Lime yellow diamond grade

100345.4 - REAR CHEVRON STRIPING

There shall be alternating chevron striping installed on the rear vertical body panel. The chevron striping shall consist of 6" diamond grade striping in the following colors:

Red diamond grade

Lime yellow diamond grade

100346.3 - CAPACITIES PLACARD

The apparatus shall have a reflective placard that provides the following information:

Water Tank Capacity
Pump Capacities
NWCG Typing
Skeeter Contact Information

MATCH 14333-2

596689.8 - NOZZLES

Two (2) Task Force Tips model # DS1040BCPID Bubble Cup dual gallonage foam nozzles with stainless steel shutoff ball shall be supplied. The nozzles shall be capable of producing either a fog or straight stream with the ability to instantly aspirate foam by sliding a sleeve forward. For corrosion resistance the nozzles shall be constructed from hard coat anodized aluminum. An integral pistol grip handle shall be positioned directly below the valve handle. The nozzles shall be configured for flow settings of 10 and 40 GPM at 100 PSI, and have a 1" female NH swivel rocker lug inlet and have a twist off position for positive shut off of the water flow.

NPSH THREAD

100350.2 - SPANNER AND HYDRANT WRENCH SET WITH MOUNTING BRACKET

One (1) Kocheck lightweight spanner wrench holder shall be installed. The bracket shall hold one (1) hydrant wrench and two (2) universal spanners. It shall be mounted on the rear vertical exterior panel of the driver's side compartment.

100040.1 - CHASSIS PREPARATION

The chassis cab shall be "prepped" for fire apparatus production as follows:
a) Wash and clean chassis
b) Weight chassis for NFPA reports
c) Quality control check in.

100041.1 - SEATING

There shall be a label identifying the number of seat belted locations on the unit.

100042.1 - WARNING LABEL -- SEAT BELT USAGE

A warning label for use of seat belts shall be installed in the cab by the chassis manufacturer.

100043.1 - LOUD NOISE WARNING LABEL

A final stage manufacturer shall install "hearing loss" potential warning labels on the vehicle in any areas or fixed equipment that produces excessive noise levels. (exhaust outlet, sirens and air horns shall not be required for such equipment.)

100135.1 - WARNING LABEL -- NO RIDING ON REAR

A warning label stating: "NO RIDING ON REAR OF APPARATUS" shall be installed on rear of the apparatus. The label shall be applied to the vehicle at the rear step area. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion, is prohibited.

100136.1 - SKEETER BRUSH TRUCK EMBLEMS

Three (3) Skeeter Brush Trucks emblems will be affixed to the cab and body.

100196.2 - FINAL ASSEMBLY AND APPARATUS FINISHING PREP SPECIFICATIONS

The apparatus shall be assembled in a high quality and controlled environment. The fit, form, and finish of the body shall be to the highest level fire apparatus manufacturing standards. On completion, the apparatus shall be totally ready for final inspection and road testing as required by the general requirement section for this specified vehicle.

100361.2 - FIRE PUMP TEST

The fire pump shall undergo factory fire pump run-in tests for a minimum of 1 hour prior to delivery of the completed apparatus.

100362.1 - ELECTRICAL LOAD ANALYSIS

A 12 volt electrical load analysis shall be provided to denote response and stationary modes of electrical amp load.

100363.1 - COMPLIANCE

The fire apparatus shall be built to the purchaser's requirements in compliance to all State, Local, and Federal highway safety requirements. The vehicle is not intended to meet any or all standards of the NFPA.

100365.1 - ROAD TEST

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.

100366.1 - APPARATUS WARRANTY SKEETER MANUFACTURED ITEMS

A five (5) year parts and labor warranty on items manufactured by Skeeter Brush Trucks. Skeeter Brush Trucks is a subsidiary of Siddons/Martin Emergency Group, a Pierce Platinum Dealer, which has 13 service centers between Texas, Louisiana, and New Mexico. In the event the apparatus is deployed outside of its normal area of operational, warranty and service can be performed at any Siddons-Martin facility at the discretion of the fire department. For warranty issues please contact your local Siddons-Martin or Skeeter Brush Truck service center and request warranty from the service advisor at that location.

100368.1 - FIRE PUMP WARRANTY

Hale Products, Inc., herein referred to as Ã¢â¬Å"Hale", warrants products of its manufacture to be free from defects in material and workmanship, under normal use and service, for a period of three years (3). This limited warranty is effective only if the equipment or apparatus is used as directed, is not subjected to misuse, negligence or accident, and is not altered, treated or repaired by someone other than Hale or its designee. Items not manufactured by Hale shall bear only the limited warranties offered by their respective manufacturers.

The exclusive remedy for breach of this warranty shall be to give Hale written notice thereof and to request a Returned Goods Authorization. Upon receipt of the Returned Goods Authorization, the buyer will return the non-conforming material to Hale F.O.B. its plant within thirty days after the buyer has received the Returned Goods Authorization. Thereupon Hale at its own election shall repair or replace the same or repay the price thereof. No proximate, incidental, consequential or other damages shall be recoverable. Hale shall not be liable for consequential damages or contingent liabilities including; but not limited to, loss of life, personal injury, loss of crops, loss due to fire or water property damage, and consequential trade or other commercial loss arising out of the failure of Manufacturer's product.

HALE MAKES NO WARRANTIES OF FREEDOM FROM PATENT INFRINGEMENT, OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE OR ARISING FROM A COURSE OF DEALING OR USAGE OF TRADE OR OTHER LIKE OR DIFFERENT EXPRESS OR IMPLIED WARRANTIES EXCEPT AS MADE ABOVE. More

100369.1 - WATER TANK WARRANTY

MANUFACTURE LIMITED WARRANTY AND NOTICE OF DISCLAIMER OF EXPRESS AND IMPLIED WARRANTIES

Manufacture issues this limited warranty to the customer who is the original retail purchaser ("Customer") of a polypropylene tank (the "Tank") (10 to 4000) gallons.

Manufactures specific warranty will be issued at pre-construction meeting.

100351.1 - PRE-CONSTRUCTION MEETING

A pre-construction meeting shall be conducted at the manufacturer's plant. The transportation to this meeting shall be the responsibility of purchaser.

100353.1 - TERMS OF PAYMENT AND PREPAYMENT PROVISIONS

Terms of payment for the specified vehicle shall be only cash on delivery and acceptance for the unit. No bid will be considered which requires the purchaser to deposit with the bidder a down payment, prepayment of chassis, or any other such consideration as a condition of the bid. Such a requirement shall be grounds for immediate rejection of the bid.

100356.2 - DEMONSTRATION AND FAMILIARIZATION OF VEHICLE

The bidder shall demonstrate and familiarize the purchaser regarding the vehicle's operation. This shall included operation of chassis, major components, review of delivery information and documentation. This demonstration shall be completed at Skeeter Brush Trucks factory location in Hillsboro, Texas.

100358.1 - DELIVERY REQUIREMENTS

The apparatus shall be picked up at the manufacturer's plant by the purchaser.

PERFORMANCE BOND, 1 YEAR

The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required. Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Basic One (1) Year Limited Warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 100 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed one (1) year from the date of such satisfactory acceptance and delivery, or the actual Basic One (1) Year Limited Warranty period, whichever is shorter.

FINAL INSPECTION FACTORY TRIP

A final inspection trip to the manufacturing facility will be provided for one (1) Alameda County/City of San Leandro representative(s). The intent of this trip is to ensure that the apparatus is built to specification and to detect any deficiencies that require correction. The final inspection trip will have a duration of three (3) days and two (2) nights and be scheduled at times mutually agreed upon between Golden State Fire Apparatus (GSFA). and the Customer. Costs for airfare, lodging, meals and ground transportation while at the manufacturer’s location will be the responsibility of GSFA. Air travel will be from one of the following airports: Sacramento, San Francisco or San Jose.

Costs such as Customer ground transportation in California, Customer airport parking, Customer luggage fees and Customer incidentals while traveling to the factory will be the responsibility of the Customer. Flight reservations are non-refundable and in the event of a cancellation after booking, the Customer will be responsible for all costs associated with this cancellation, which may include not only the original ticket cost but also any change or cancellation fees imposed by the airline and/ or travel agency. Flight reservations are also non-transferable.

END OF PROPOSAL

City of San Leandro

Meeting Date: February 1, 2021

Staff Report

File Number: 21-041 **Agenda Section:** CONSENT CALENDAR

Agenda Number:

TO: City Council

FROM: Fran Robustelli
Interim City Manager

BY: Susan Hsieh
Finance Director

FINANCE REVIEW: Susan Hsieh
Finance Director

TITLE: RESOLUTION of the City of San Leandro City Council Approving the Acquisition of a Replacement Fire Truck from Golden State Fire Apparatus, Inc. and the Relevant Costs for Tool Purchase and Equipment Mounting and Authorizing the City Manager to Execute the Purchase Agreement and Other Documents Necessary to Effect the Acquisition

WHEREAS, the Alameda County Fire Department (ACFD), in serving as the City's fire department, needs to replace its existing fire apparatus; and

WHEREAS, although the City contracts with the ACFD for fire services, all facilities and equipment, including fire trucks, are purchased and owned by the City; and

WHEREAS, the bid price by Golden State Fire Apparatus, Inc. for the Type 5 Wildland Pumper Fire Truck is not to exceed $238,318.07, which includes costs for inspection, delivery, and sales tax; and

WHEREAS, additional costs of approximately $62,000 are expected for tool purchase and equipment mounting and the work will be performed by ACFD; and

WHEREAS, Acquisition costs are included in the City's 2020-2021 Adopted Budget, account number 010-23-002-7410; and

WHEREAS, the City proposes to purchase the fire truck by piggy-backing on the County bid to benefit from the County's bid process.

NOW, THEREFORE, the City Council of the City of San Leandro **RESOLVES** as follows:

That the acquisition of a replacement fire truck from Golden State Fire Apparatus, Inc. and the relevant costs for tool purchase and equipment mounting is approved and the City Manager is authorized to execute the purchase agreement and other documents necessary to effect the acquisition.