

NOTICE TO BIDDERS
17,950 GVWR BRUSH TRUCKS

Notice is hereby given that the Board of County Commissioners of Santa Rosa County, Florida, will receive sealed bids for two 17,950 GVWR brush trucks.

All bids must be original and delivered by hand, Fed Ex, or mail to the Office of the Santa Rosa County Procurement Department, 6495 Caroline Street, Suite G, Milton, Florida, 32570; and must be received by 10:00 a.m., May 13, 2008, at which time bids will be opened and read aloud. Bids received after the time set for the bid opening will be rejected and returned unopened to the bidder. All interested parties are invited to attend.

Specifications and bid form may be secured from Santa Rosa County Website (www.santarosa.fl.gov/bids) or at the Santa Rosa County Procurement Department at the above address. Telephone (850) 983-1833.

Questions regarding this request should be directed to Mr. Brad Baker at (850)983-4610

The Board of County Commissioners reserves the right to waive irregularities in bids, to reject any or all bids with or without cause, and to award the bid that it determines to be in the best interest of Santa Rosa County.

Santa Rosa County does not discriminate on the basis of race, color, national origin, sex, religion, age, or handicapped status in employment or provision of service.

By order of the Board of County Commissioners of Santa Rosa County, Florida.

LEGAL NOTICE

One issue – April 12, 2008 - Press Gazette, and April 17, 2008 - Navarre Press

Bill and proof to Santa Rosa County Procurement Department, 6495 Caroline Street, Suite G, Milton, Florida, 32570, Attn.: Orrin L. Smith.

April 12, 2008

MEMORANDUM

TO: Company Addressed

FROM: Santa Rosa County Procurement Department

SUBJECT: 17,950 GVWR Brush Trucks

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MINIMUM SPECIFICATIONS 17,950 GVWR Brush Truck

General Instructions

The fire apparatus and equipment to be furnished in meeting these specifications must be the product of an established, reputable fire apparatus manufacturer. Each bidder shall furnish satisfactory evidence of the manufacturer's ability to construct, supply service parts and technical assistance for the apparatus specified. He must state the location of the factory and the location for service. Bidder must submit a list of equivalent type trucks of the specified design sold and in service by the manufacturer in this state.

The general construction of the apparatus shall give due consideration to the nature and distribution of the load to be sustained and the general character of the service to which the apparatus is to be subjected when placed in service. The general design and construction shall be of the latest modern type and be fully modular for transfer of the body to another chassis without cutting or welding and be in accordance with the best fire fighting apparatus engineering and practice. These specifications cover specific requirements as to the type of construction and test to which the apparatus must conform, together with certain details as to finish, material preferences, equipment and appliances which the successful bidder must include.

The intent of these specifications is to describe the minimum quality level acceptable. Any brand name and/or model number mentioned is intended to be descriptive and not restrictive to bidders who cannot provide those brands. Each bidder must state the brand of any item which is not available to the bidder along with a complete description of the substituted item. The buyer reserves the right to require a bidder to provide proof in each case that a substituted item is equal to the item specified. The buyer shall be the sole judge in determination of acceptable substitutes and that decision shall be final.

Standards Compliance

The equipment shall conform to the National Fire Protection Association Standard for Automotive Fire Apparatus, Number 1901, in its most recent edition, unless otherwise specified in this document. Only the specified firefighting support equipment listed in these specifications shall be provided. The equipment specified in this request shall be new, unused, and shall be of the latest type and model unless otherwise specified. No prototype apparatus will be considered.

Bid Submission

The bidder must submit detailed specifications on each item in the bid. The bidder shall furnish detailed engineered drawings of compartmentalization, material, and performance data on the chassis to be furnished.

Bids will be addressed and submitted in accordance with the instructions provided on the cover sheet. The words "Bid - Brush Truck", the date, and bid opening time shall be stated on the front of the sealed bid envelope.

The intent of the specifications is to describe the minimum quality acceptable. Any brand name and/or model number mentioned is intended to be descriptive and not restrictive to any bidder. Bidder must state the brand of any item provided which is a substitute for the brand or model specified for evaluation by the buyer. The buyer reserves the right to require a bidder to provide proof in each case that a substituted item is equal to that specified. The buyer shall be the sole judge in determination of acceptable substitutes. Each bidder shall make accurate statements in his documentation as to all principle dimensions and weight distribution of the fully loaded completed vehicle. The buyer reserves the right to initiate and/or consider negotiations in construction which will be in the best interest of the fire department once the bid has been awarded.

Each bidder must submit detailed specifications which accurately details the construction methods used in the construction of the truck. The buyer will utilize this information to compare the unit proposed with the specifications. All details are to be submitted in the same sequence as the advertised specifications for ease of comparison. Any bidder who fails to submit detailed construction specifications, or who photo copies and submits these specifications as their own construction details will be considered non-responsive. This shall render such proposals ineligible for award.

It shall be the responsibility of the bidder to assure that their bid arrives at the proper location by the time indicated.

Any erasures, strike overs and/or changes to prices written in numerals should be initialed by the bidder. Failure to initial may be cause to reject the bid as irregular and disqualified from consideration.

Buyer Protection

The successful contractor shall defend any and all legal suits and assume all liability for any and all claims made against the buyer and/or any of its officials or agents for the use of any patented process, device or article forming a part of the apparatus or any other appliance furnished under the contract.

The amount of available product liability and facility insurance is known to be a mark of the protection available to the buyer. Each manufacturer is required to provide with the bid an original certificate with the buyer shown as certificate holder in the amount of \$ 25,000,000.00. Should the builder be unable to provide the amount of liability insurance requested, a certificate for the largest amount available from that builder shall be provided, with the understanding that this certificate amount will be an influential factor in determining of the best bid. The non-availability of acceptable liability insurance or the failure to provide original certificates with the buyer as certificate holder will render the manufacturer an unacceptable vendor for this class of vehicle. No photostatic copies will be acceptable.

Warranties

The manufacturer of the fire apparatus shall offer, as a minimum warranty, one year full parts and labor on the complete apparatus. All bidders must state in writing their detailed warranty.

Each bidder shall offer as a minimum, warranties as described in this specification. A copy of each warranty supplied by the apparatus builder shall be provided in the bid.

Delivery

Bidder shall state his delivery time in calendar days. State your delivery keeping in mind that the buyer may award the bid based on delivery as well as price and conformance to specifications. The successful bidder shall not be responsible for delays in delivery due to strikes, acts of God, failure of suppliers to deliver, chassis shortage and other reasons beyond the reasonable control of the builder. In the interest of public safety, an early delivery will be an extremely important consideration and will be a major factor in the awarding of a contract.

Guaranteed delivery date must be shown on the bid proposal. Time is of the essence, and failure to meet the delivery date specified shall constitute a breach of contract. Bidder shall note that if said guaranteed delivery date cannot be complied with, the Purchasing Director shall be notified in writing of the reason for failure to comply.

Bidder shall include prepaid delivery. A factory trained representative shall deliver the unit, unless factory acceptance and instruction is preferred. The representative shall be prepared to familiarize the fire department personnel with the operation and maintenance of the apparatus. No bid will be considered that requires the buyer to deposit with the bidder a down payment, prepayment of chassis, or any other such consideration as a condition to the bidder. Such a requirement shall be grounds for rejection of the bid.

The responsibility for the apparatus and equipment remains with the manufacturer until satisfactory completion of acceptance test and formal acceptance of the apparatus is made.

Apparatus, to insure proper break-in of all components while still under warranty, shall be delivered under its own power. Rail or truck freight is not acceptable.

Exceptions

It is not the intent of these specifications to eliminate any qualified bidder. Exceptions will be allowed if they are equal to or superior to that specified and provided they are listed and fully explained on the bid form in the Comment Section. The buyer cannot determine the acceptability of an exception without detailed information supporting the equivalence of the item proposed. The exception list shall refer to specification page number and paragraph heading. Exceptions taken for the convenience of a bidder where the item specified is available to all builders will not be accepted. If there are no exceptions to the specifications listed, then it shall be assumed that the buyer will find no deviations between the advertised specifications and the bid submitted.

The apparatus will be inspected upon delivery for compliance with the specifications. Deviations will not be tolerated and will be cause for rejection of the apparatus unless they were originally listed in the Comment Section on the bid form. Bids taking total or general exceptions shall not be accepted. Where a manufacturer is unable to meet the specification, any alternate offered for consideration must be the closest equivalent offered in the industry.

The buyer will closely compare each bid submitted with the advertised specifications to determine the level of compliance of each bid to those specifications. All bidders are hereby advised that bids that are found to have deviations without listing them will be rejected.

Minor details of construction and materials, where not otherwise specified, are left to the discretion of the contractor who shall be solely responsible for the design and construction of all features.

Bonds

A bid bond in the amount of 5% of the total bid shall accompany the bid. Bids submitted without a bid bond will not be read. Bonds must be signed by an officer of the bidder's company. A performance bond will be required of the successful bidder in the amount of 20% of the contract price to guarantee delivery in the time frame provided on the bid form.

Manuals

Two complete operational and maintenance manuals shall be furnished upon delivery, including two pump manuals.

Service Capability

As "the entity having jurisdiction" as defined by NFPA 1071, the buyer requires that each bidder be capable of providing both in-house and on-site service for the apparatus proposed through the use of either an established emergency vehicle service center or a mobile technician. The bidder shall have full time EVT certified maintenance technicians in compliance with NFPA 1071 classifications F-2 through F-6 on staff to provide service. On-site service shall be the primary mode of maintenance and warranty repair to eliminate the requirement of transporting the vehicle outside the fire department jurisdiction. Bidder shall include a copy of the mechanics EVT certification showing their certified classifications with the bid as proof of meeting this requirement.

General Body Construction

As all material and equipment specified herein are available to all bidders, aluminum type apparatus are being solicited. Steel bodied type apparatus are not being called for and shall not be considered. The entire apparatus body, including sub-frame, will be constructed of aluminum.

The apparatus body must be of all aluminum modular type, and shall be completely assembled prior to installation on the chassis.

Special consideration will be given to the accessibility of various components requiring periodic maintenance operations, ease of operation, and symmetrical proportions.

The body is to be completely built, painted and installed by the prime body manufacturer, which minimizes third part involvement on engineering, design, service and warranty questions. Apparatus using a subcontracted body will not be acceptable.

Design History

No prototype apparatus will be considered. Bidders shall include a list of locations where a vehicle of this design has been placed in service. Designs which do not meet this qualification shall be considered a prototype.

Manufacturer History

A written review of the company, in chronological order, detailing the background of the manufacturer shall be provided as part of the bid package.

Fluid Data Plaque

A fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, meeting current NFPA Standards as follows:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Drive axle lubrication fluid
- Power steering fluid
- Pump transmission lubrication fluid
- Other NFPA applicable fluid levels or data as required.

Location shall be in the driver's compartment or on driver's door.

Overall Height Data Plaque

The cab dash area shall have a highly visible plaque indicating the maximum overall height of the vehicle.

Personnel Payload Capacity

A label shall be installed in cab to denote that five personnel may be carried. For engineering purposes, an allowance of 1250# shall be provided for personnel.

Ford F-550 Chassis

The commercial chassis shall be a Ford F-550 two door, 2007 or newer, supplied with the following equipment:

Powertrain

Powerstroke 6.4L V-8 OHV direct diesel injection 32 valve twin turbo diesel engine * 135 amp dual alternator * 750 amp 78 amp hours (Ah) battery dual batteries * Transmission oil cooler * 5-speed electronic automatic transmission with overdrive, lock-up, driver selection * Part-time four-wheel drive with manual transfer case shift, manual locking hubs * Limited slip differential * 4.88 axle

ratio * Stainless steel exhaust

Steering and Suspension

Hydraulic power-assist re-circulating ball steering * 4 wheel disc brakes with front and rear vented discs * Firm ride suspension * Mono-beam non-independent front suspension * Front anti-roll bar * Front coil springs * HD front shocks * Rigid rear axle * Rear leaf suspension * Rear anti-roll bar * HD rear leaf springs * HD rear shocks * Front and rear 19.5" x 6.00" argent steel wheels * LT225/70SR19.5 BSW AT front and rear tires

Safety

4-wheel anti-lock braking system * Dual airbags * Front height adjustable seatbelts

Comfort and Convenience

Air conditioning * AM/FM stereo, clock, seek-scan, 2 speakers, fixed antenna * 2 12V DC power outlets, * Analog instrumentation display includes tachometer, oil pressure gauge, engine temperature gauge, turbo/supercharger boost gauge, transmission fluid temp gauge, engine hour meter, trip odometer * Warning indicators include oil pressure, engine temperature, battery, key in ignition, low fuel, door ajar * Manual front and rear windows with light tint * Variable intermittent front windshield wipers * Passenger side vanity mirror * Day-night rearview mirror * Interior lights include dome light with delay, front and rear reading lights * Glove box, front cup holder, instrument panel bin, dashboard storage, 2nd row under seat storage

Seating and Interior

Seating capacity of 6 * 40-20-40 split-bench front seat with fixed head restraints, center armrest with storage * 4-way adjustable driver seat includes lumbar support * 4-way adjustable passenger seat includes lumbar support * 60-40 folding rear split-bench seat with Flex Fold flip forward cushion/seatback, 2 fixed rear head restraints, center armrest * Vinyl faced front seats with vinyl back material * Vinyl faced rear seats with vinyl back material * Full cloth headliner, full vinyl/rubber floor covering, plastic/rubber gear shift knob, cab back insulator, chrome interior accents

Exterior Features

Side impact bars, front license plate bracket, fully galvanized steel body material * Black fender flares * Black side window moldings, black front windshield molding, black rear window molding * Black door handles * Black grille * 4 doors * Trailer harness * Driver and passenger manual black folding outside mirrors * Front chrome bumper with front black rub strip/fascia accent, front tow hooks * Aero-composite halogen headlamps * Additional exterior lights include cab clearance lights, under hood light * Clear coat monotone paint

Warranty

- Basic 36 month/36,000 miles
- Powertrain 60 month/60,000 miles
- Corrosion Perforation 60 month/unlimited mileage
- Roadside Assistance 60 month/60,000 miles
- Diesel Engine 60 month/100,000 miles

Dimensions and Capacities

GVWR	17,950 lbs.
Payload	9,550 lbs.
Output	325 hp @ 3,000 rpm
Torque	600 lb.-ft. @ 2,000 rpm
1st gear ratio	3.110
2nd gear ratio	2.220
3rd gear ratio	1.550
4th gear ratio	1.000
5th gear ratio	0.710
Reverse gear ratio	2.880
Curb weight	7,735 lbs.
Front GAWR	7,000 lbs.
Front curb weight	4,497 lbs.
Rear curb weight	3,238 lbs.
Front spring rating	7,000 lbs.
Towing capacity	16,000 lbs.
Maximum GCWR	26,000 lbs.
5th-wheel towing capacity ...	17,000 lbs.
Front legroom	41.0 "
Rear legroom	41.8 "
Front headroom	41.4 "
Rear headroom	41.4 "
Front hip room	67.6 "
Rear hip room	67.3 "
Front shoulder room	68.0 "
Rear shoulder room	68.0 "
Length	261.4 "
Body width	93.9 "
Height	80.3 "
Wheelbase	176.0 "
Cab to axle	60.0 "
Turning radius	25.8 '
Fuel tank	40.0 gal.

Brush Guard

A front bumper mounted brush guard for a Ford F550 shall be provided. The guard shall be designed to protect the entire width of the front of the truck. The brush guard shall be polished stainless steel.

Stainless Steel Wheel Covers

The front and rear outer wheels of the apparatus shall be covered with Real Wheels mirror finish, stainless steel, full wheel covers. The rear wheels shall be furnished with stainless steel braided air valve extensions.

Ember Separator - F550

An Ember Separator shall be provided for the engine air intake in accordance with NFPA.

Master Electric Switch

A battery disconnect switch shall be located conveniently to the driver of the apparatus. The switch shall disconnect the 12/24 volt power supply from the battery system.

Battery System Indicator Light

There shall be a green battery "on" light provided front center of the cab.

Battery Charger

A Super Smart 20 amp battery charger shall be wired to the 12 volt battery system. The charger unit shall be mounted in a clean dry area and will be accessible for service and/or maintenance.

Shore Power Receptacle

One Kussmaul model 15 amp 120 volt "auto-eject" shore power receptacle shall be installed. The shore power plug shall "eject" when the engine is started. The receptacle shall be wired to specified electrical equipment. A female plug shall be shipped loose for use with shore power.

Location shall be: left side cab step area.

Rocker Switch Panel

A switch panel with six individual rocker switches to control electrical equipment and emergency lighting shall be installed in the chassis cab dash area.

Cab Console

A custom fabricated aluminum electrical console and enclosure shall be provided to house cab mounted electrical switching devices and equipment. The console shall be located between the driver's and the officer's seating.

Map Light

A Federal model #LF18-TRB map light with a goose neck light arm shall be provided on the right side of dash or console area. The light shall be 12 volt and have an on-off switch located on the base

of the light.

Interior Cab Ceiling Clear Light

A 7" diameter ceiling mounted light with a push button switch shall be provided in the cab. Lens color shall be clear.

Location shall be: cab ceiling

Ground Illumination Lights

Four automatic ground illumination lights shall be installed. One light will be mounted to illuminate each cab door area.

Round Tube Step Bars

There will be a set of round tube step bars mounted under the cab doors for ease of entering the cab.

Rear Mud Flaps

There shall be a set of mud flaps installed, with the reflective logo, behind the rear chassis wheels.

Rear Pintle Hitch

A 10,000# pintle hitch shall be installed at the rear of the apparatus. The hitch shall be hard mounted to the bumper.

A four pin electrical connector wired to the chassis stop, running, and turn lights shall be installed near the hitch.

Front Mounted Electric Winch

A 12,000 pound capacity (6-ton) winch manufactured by the Warn Winch Company shall be provided. The 12-volt electric winch system shall be installed on the front of the apparatus. The winch shall have forward and reverse gears.

The unit shall have three stage planetary gearing and a rotating ring gear clutch that will permit free-spooling for quick unwinding of cable.

The winch shall be controlled with a push button device attached to a twelve foot control cable and weatherproof receptacle.

The winch shall have 125 feet of 3/8" diameter galvanized aircraft cable, with slip hook installed. A 4 way roller shall be installed to guide the cable.

Fire Pump Specifications

The fire pump shall be a Hale Model HPX200-BD26 MaxStream mounted at the rear of the water tank. The unit shall have a Briggs & Stratton 26 horsepower diesel engine.

The fire pump shall be equipped with an electric starting system, with battery supply from the chassis batteries. A terminal junction connection panel shall be provided for wiring to the pump installation and engine start.

The pump panel shall be separate for the fire pump and plumbing area. The slanted panel shall contain the following:

- Light switch
- Start and stop switch
- Class 1 2.5" Pressure gauge
- Engine controls

The plumbing system shall be of all stainless steel with Victaulic type couplings between the plumbing and the fire pump. All valve handles shall be labeled on valve operations.

Fire Pump Testing

The fire pump shall be tested after all of its associated piping and valving have been installed on the apparatus. The tests shall be conducted at the manufacturer's facility and certified by the manufacturer.

Fire Pump Primer

The fire pump shall be equipped with a Class I model #ESP oil-less electrically driven priming pump. The unit shall be a positive displacement vane type. A Hale PVG priming control shall be located at the pump operator's panel and when pulled it shall open the priming valve and start the priming motor.

Fire Pump Plumbing System

The engine driven fire pump plumbing system shall be built completely of stainless steel piping, stainless steel and/or brass fittings, and connections.

Tank connections, front discharges, and other piping shall use high-pressure flexible piping. Flexible hose couplings shall be threaded stainless steel or Victaulic connections.

Intake and Discharge Valves

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

Hose Threads

The hose threads shall be National Standard (NST) on all base threads on the apparatus intakes and discharges, unless otherwise specified.

Water Tank to Pump Line

A 3" water tank to fire pump line shall be provided with a full flow quarter turn ball valve, 3" piping, and with flex hose and stainless steel hose clamps. The valve control shall be accessible from the pump operation area.

A 2.5" drafting valve shall be provided with a full flow quarter turn ball valve. 2.5" piping shall also be provided.

Fire Pump to Water Tank Fill Line

A 1" fire pump to water tank refill and pump bypass cooler line shall be provided. The valve shall be a full flow quarter turn ball valve with 1" piping and flex hose to tank. The valve control shall be directly on the valve.

1-1/2" Discharge

A 1-1/2" discharge shall be provided at the pump control area. The valve shall be a 1-1/2" quarter turn ball valve. The control handle mounted directly on the valve.

Hose Reel

Hannay electric rewind, painted steel booster reel. The reel capacity shall be 100' of 1" booster hose. The reel shall be bolted to a mounting system for easy service or removal. The hose reel shall be top mounted. An option for a back mounted location is provided on the bid form. The reel shall be painted black.

Hose Reel Electric Rewind Switch

The electric rewind control shall be a weather-resistant enclosed momentary push button switch.

Hose

100' foot length(s) of 1" booster hose with hard coat aluminum pin lug couplings and an 800 PSI working pressure shall be provided.

Hose Reel Nozzle

One Elkhart 1" booster nozzle model SB-275A w/ S-205-BAF23 shall be provided. The nozzle allows for both non-aerated & aerated streams, fog and straight bore application.

Hose Reel Nozzle Mounting

The hose reel nozzle shall be mounted in a PAC clip type nozzle mounting.

Roller

A stainless steel roller assembly shall be provided for the hose reel assembly on the left side of the apparatus.

Roller

A stainless steel roller assembly shall be provided the for hose reel assembly on the right side of the apparatus.

1" Hose Reel Discharge

A 1" discharge shall be provided and piped to the hose reel with flexible high pressure hose. The quarter turn ball valve shall be controlled directly at the valve.

Foam System

A Hypro/FoamPro, Model 1601 shall be a fully automatic electronic direct injection foam proportioning system furnished and installed on the apparatus. The system shall be capable of Class A foam concentrate. The proportioning operation shall be based on an accurate direct measurement of water flows with no water flow restriction.

The proportioning system shall meet NFPA standards for foam proportioning systems and the design shall have passed testing against SAE automotive reliability standards appropriate for the application. The foam system shall be installed in accordance with the manufacturer recommendations. The system shall be equipped with a control module. It shall be installed on the pump operators panel and enable the pump operator to perform the following functions:

- Activate the foam system
- Change foam concentrate proportioning rates from .1% to 1%
- Flash a low concentrate warning light when the foam concentrate tank runs low of concentrate and in two minutes if foam concentrate is not added to tank shut the foam concentrate pump down.

The foam system shall have a 12 Volt, 1/3 hp electric motor driven positive displacement piston type foam concentrate pump with a rated capacity of .01 to 1.0 GPM @ 200 PSI, with operating pressures up to 400 PSI. The system will draw 19 amps @ 12 VDC or 15 amps @ 24 VDC. The maximum electrical draw of the system will be 30 amps.

Foam discharge outlet(s):

Water Tank

A 400 gallon water tank shall be supplied. The tank shall have a 4" overflow. The construction

shall be of co-polymer polypropylene and shall be rectangular shaped. The exterior portion of the tank shall be left natural black finish.

Water Tank

Sides, top and bottom, shall be constructed of a minimum of 1/2" black UV stabilized copolymer polypropylene.

The tank shall undergo extensive testing prior to installation in the truck. The process shall include an electronic spark and water fill test.

The tank shall have a combination vent and manual fill tower. The tank overflow shall be 4" diameter and shall dump behind the rear wheels to permit maximum traction. The tower shall have a hinged cover and screen.

There shall be two standard tank openings; one for the tank to pump suction line and one for a tank fill line.

Baffles, both longitudinal and latitudinal shall be interlocking and welded to minimize water surge during travel. Openings in the baffles shall allow water flow during filling or pumping operations.

The tank shall be mounted on hard rubber cushions to isolate the tank from road shock and vibration.

The tank shall be completely removable from the apparatus body structure.

The water tank shall have an integral foam tank installed.

The foam concentrate tank shall be provided with baffles if needed.

The foam concentrate tank shall be provided with a fill tower or expansion compartment having a minimum area of twelve square inches.

The fill tower opening shall be protected by a completely sealed air-tight cover.

The fill tower 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 vent shall be protected to prevent foam concentrate from escaping or directly contacting the vent at any time.

10 Gallon Foam Tank

There shall be a ten gallon foam tank supplied. The tank shall be an integral part of the water tank and shall be of polypropylene construction.

Foam Tank Drain Valve

The foam tank shall have a 1" diameter gate type drain valve.

Aluminum Flatbed

The apparatus body shall be of the flatbed design, and be constructed of all welded aluminum. No bolts, screws, or rivets shall be used in the construction of the aluminum flatbed. The body shall be custom designed for use in the fire service, and shall incorporate the latest design and construction techniques. The body shall be built of all aluminum #3003-H22 diamond plate, #5005-H3 expanded aluminum plate, and 6061-T6/6063-T6 aluminum extrusions. This allows for greater strength, stiffness, and rust/corrosion resistance. The aluminum flatbed shall carry a 10-year warranty.

Flatbed dimensions shall be 96" wide x 108" long. All cross members shall be 4" aluminum extruded I-beam and there shall be six latitudinal cross members.

All framing extrusions shall be C-channel extrusions. Framing extrusions shall have locations for warning lights.

The floor of the flatbed shall be constructed of .125" aluminum diamond plate. The framing extrusions shall be slotted allowing a flush fitting of the diamond plate floor to the framing extrusions. The floor shall be welded the cross members and framing extrusions.

The rear skirt of the apparatus shall be constructed of .125" aluminum plate. The rear skirt shall bolt on to aluminum angle extrusions that are welded the rear framing extrusion of the flatbed body. This plate shall be removable for access to the inside frame area of the chassis for easy maintenance. For F350-550 Ford chassis, the fuel fill neck will be located in the rear skirt.

The headache rack of the flatbed body shall be constructed of 2" extruded aluminum tube, and shall be bolted to the framing extrusions of the flatbed body. This design shall allow for maximum strength of the headache rack. The upper area of the rack shall have expanded aluminum plate for ease of visibility.

The flatbed body shall be mounted using 1/4" steel plates bent at a 90 degree angle on each side for strength. There shall be a total of six plates mounting the body to the chassis.

Diesel Fuel Label

A metallic label, that designates "Diesel Fuel Only" requirements, shall be located above each fuel filler housing. It shall be black with white or equivalent contrasting letters a minimum of .5" high.

Body Compartments

There shall be two aluminum diamond plate compartments mounted on the forward edge on each side of the flatbed. The compartments shall be made of 1/8" aluminum diamond plate and all non-

formed edges shall be welded.

There shall be two overlapping doors with single D-ring latch on each compartment with a weather-proof seal preventing water leakage into the compartments. All hardware shall be stainless steel.

The compartment dimensions shall be 72" long, 30" high, and 18" deep.

Hinge orientation must be specified at time of order.

Hose / Tool Tray (1)

There shall be an expanded metal hose / tool tray installed over one compartment. The tool / hose tray shall be 72"L x 8"H x 18"D.

The tray shall be mounted to the upper outer surface of the compartment.

Cargo Net Cover

A removable web cover shall be supplied to cover hose/tool tray on top of compartment.

Hand Rail

A non-slip extruded aluminum hand rail, approximately 24" in length, shall be installed on the apparatus. The hand rail shall be secured to the body with chrome plated fittings.

The location shall be:

Low Voltage Electrical System Specifications

The following specifications describe the low voltage electrical system on the specified brush truck type fire apparatus. The electrical system shall include all panels, electrical components, switches and relays, wiring harnesses and other electrical components.

All 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 in all wiring from the power source to the using device shall not exceed 10 percent. 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. All exposed wiring shall be run in a loom with a minimum 289 degree Fahrenheit rating. All wiring looms shall be properly supported and attached to body members. The electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

The wiring connections and terminations shall use a method that provides a positive mechanical and electrical connection and shall be installed in accordance with the device manufacturer's instructions.

Electrical connections shall be with mechanical type fasteners and large rubber grommets where wiring passes through metal panels.

The wiring between the cab and body shall be split using Deutsche type connectors or an enclosed in a terminal junction panel area. This system will permit body removal with minimal impact on the apparatus electrical system. All 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 to ensure the integrity of the electrical system.

Any electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless they are enclosed in an electrical junction box or covered with a removable electrical panel. The wiring shall be secured in place and protected against heat, liquid contaminants and damage. Wiring shall be uniquely identified at least every two feet by color coding or permanent marking with a circuit function code.

The electrical circuits shall be provided with low voltage over-current protective devices. Such devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. The over-current protection shall be suitable for electrical equipment and shall be automatic reset type 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. The system shall have electro-magnetic interference suppression provided as required in applicable SAE standards.

The electrical system shall include the following:

- a) Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. A corrosion preventative compound shall be applicable to all terminal plugs located outside of the cab or body.
- b) The electrical wiring shall be harnessed or be placed in a protective loom.
- c) Heat shrink material and sealed connectors shall be used to protect exposed connections.
- d) Holes made in the roof shall be caulked with silicone. Large fender washers shall be used when fastening equipment to the underside of the cab roof.
- e) Any electrical component that is installed in an exposed area shall be mounted in a manner that will not allow moisture to accumulate in it.
- f) 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.
- g) All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.

The warning lights shall be switched in the chassis cab with labeled switching in an accessible location. Individual rocker switches shall be provided only for warning lights provided over the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be mounted on a switch panel mounted in the cab convenient to the operator. The warning light switches shall be of the rocker type. For easy nighttime operation, an integral indicator light shall be provided to indicate when the circuit is energized. All switches shall be appropriately identified as to their function.

A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency and "call for the right of way". When the parking brake is activated, a "blocking right of way" system shall be automatically activated. All "clear" warning lights shall be automatically shed on actuation of parking brake.

DOT Lighting Package

The 12 volt lighting on the brush truck body shall conform to DOT standards. LED lighting shall be used.

Stop/Tail, Turn and Back-Up Lights

The tail lights provided with the chassis shall be reinstalled at the rear of the apparatus body.

Rear License Plate Mount with Light

There shall be a license plate mount with light supplied at the rear of the apparatus.

Rear Step Ground Lights

Two incandescent lights shall be installed under the rear step. These lights shall automatically activate when the vehicle is in park or neutral.

Telescopic 150 Watt Floodlight

Fire Research Focus model FCA530-D15 side mount push up telescopic light shall be installed. The light pole shall be anodized aluminum and have a knurled twist lock mechanism to secure the extension pole in position. The extension pole shall rotate 360 degrees. The outer pole shall be a grooved aluminum extrusion and qualify as an NFPA compliant handrail. The pole mounting brackets shall have a 3 1/2" offset. Wiring shall extend from the pole bottom with a 4' retractile cord.

The lamp head shall have one quartz halogen 150 watt 12 volt bulb. The bulb will draw 12.5 amps and generate 2600 lumens. The bulb shall be accessible through the front. The lamp head shall direct 50 percent of the light onto the action area while providing 50 percent to illuminate the working area. The lamp head angle of elevation shall be adjustable at a pivot in the mounting arm and the position locked with a round knurled locking knob. The lamp head shall incorporate heat-dissipating fins and be no more than 5" deep by 3 3/8" high by 10" wide. Lamp head and mounting arm shall be

powder coated white. The floodlight shall be UL listed as a scene light for fire service use.

Location of floodlight shall be directly behind cab area.

Deck Light

One 4" x 6" pedestal light shall be provided. The location shall be mounted over pump/plumbing area with the switch on the pump panel.

Back-Up Alarm

An automatic electric back-up alarm shall be wired to the back-up light circuit, and mounted under the rear of the apparatus body.

Compartment Light

Two exterior compartments shall each be equipped with one incandescent light fixture that shall be recessed mounted in compartment wall. The light shall have a clear lens.

The compartment light shall be activated by an automatic door switch wired to the tell-tale warning in the cab.

Hazard Warning Light

A flashing light with a red lens, located in the driving compartment, shall be illuminated automatically whenever any cab door or equipment compartment door is open. The light shall be also wired to any other device that is opened, extended or deployed that creates a hazard or is likely to cause damage to the apparatus if the apparatus is moved.

The light shall be marked, "DO NOT MOVE APPARATUS WHEN LIGHT IS ON".

Light Bar

A Whelen Edge LFL-Liberty series LED 54" light bar shall be installed. The color and configuration shall be designated by the fire department. The light bar shall carry a five year warranty on the LED modules.

Front Corner Warning Lights

Two Whelen Model 500 warning lights shall be installed.
Lens color shall be: Red.
Location shall be: Front chassis grille.

Front Corner Warning Lights

Two Whelen Model 500 warning lights shall be installed.

Lens color shall be: Red.
Location shall be: Front chassis corners.

LED Lower Body Warning Lights

Two Whelen Model #600 LED warning lights shall be installed. The dimensions of the light shall be 4" x 6".
Lens color shall be: Red.
Location shall be: lower side of body.

LED Lower Rear of Body Warning Lights

Two Whelen Model #600 LED warning lights shall be installed. The dimensions of the light shall be 4" x 6".
Lens color shall be: Red.
Location shall be: lower rear of body.

Federal Electronic Siren

One Federal Signal PA-300 full function electronic siren shall be mounted in the cab. The siren shall have the following features: electronic air horn, wail, yelp, hi-lo, radio rebroadcast, P.A. and shall have a hard wired microphone.

Siren Speaker

Federal Signal DynaMax Model #MS-100 watt speaker shall be mounted.

Exterior Cab Finish

The apparatus cab exterior shall be washed and polished prior to delivery.

Cab Paint

The truck cab shall remain the standard commercial chassis manufacturer's stock color. The cab will not be re-painted.

NFPA Inner Door Striping

There shall be 96 square inches of reflective material located inside each cab door. The reflective material shall be visible to traffic approaching from the rear of the apparatus.

This striping is required by NFPA 1901, 2003.

Cab and Body Stripe

A Scotchlite reflective stripe for the cab and body shall be supplied. The straight stripe shall conform to current NFPA standards. The color of the material and location are to be specified by the purchaser.

The stripe shall be 4" minimum in width.

Documentation and Manuals

This apparatus shall be accompanied by all of the following information located in a manual for the fire package. The required information shall be furnished on delivery of the apparatus in a printed format and CD format. This shall include the following information:

- General information for major components: including serial number, model number, and manufacturer of major components on the vehicle.
- Certified weight analysis of vehicle as shipped, noting total weight, front axle weight, rear axle weight.
- All fluid data information, filters, cartridges, etc. that is required for servicing the vehicle.
- Final "as built" drawing of the apparatus.
- Contact listing of all service centers, factory warranty and parts centers, and other information on service, warranty, or where information can be secured on this apparatus.
- Service & Parts manuals on the chassis (printed only, unless electronically supplied by the chassis manufacturer).
- Service & Parts manuals on the apparatus body and its major components.

Warranty - One Year Standard

The apparatus manufacturer shall provide a full one year standard warranty. All components manufactured by the apparatus manufacturer shall be covered against defects in materials or workmanship for a one year period. All components covered by separate suppliers such as engines, transmissions, tires, and batteries shall maintain the warranty as provided by the component supplier. A copy of the warranty document shall be provided with the submittal.

Warranty – Structural

The apparatus manufacturer shall provide a comprehensive ten year/100,000-mile structural warranty. This warranty shall cover all structural components of the cab and/or body manufactured by the apparatus manufacturer against defects in materials or workmanship for ten years or 100,000 miles, whichever occurs first. Excluded from this warranty are all hardware, mechanical items, electrical items, or paint finishes. A copy of the warranty document shall be provided with the submittal.

Warranty - Polypropylene Tank

The apparatus manufacturer shall provide a full lifetime polypropylene tank warranty. This warranty shall cover all defects in materials or workmanship of the polypropylene tank for the lifetime of the covered apparatus with its original owner. A copy of the warranty document shall be provided with

the submittal.

Warranty - Stainless Steel Plumbing

The apparatus manufacturer shall provide a full ten year stainless steel plumbing components warranty. This warranty shall cover defects in materials or workmanship of apparatus manufacturer designed foam/water plumbing system stainless steel components for ten years. A copy of the warranty document shall be provided with the submittal.

Warranty - 10 Year Paint

The apparatus manufacturer shall provide a ten year limited paint and corrosion perforation warranty. This warranty shall cover paint peeling, cracking, blistering, and corrosion provided the vehicle is used in a normal and reasonable manner. Paint shall be prorated for ten years and corrosion perforation shall be covered 100% for ten years. The warranty period shall begin upon delivery of the apparatus to the original user-purchaser. A copy of the warranty document shall be provided with the submittal.

UV paint fade shall be covered in a separate warranty supplied by DuPont and shall be for a minimum of ten years.

BID FORM

Santa Rosa County Procurement Department
6495 Caroline Street, Suite G
Milton, Florida 32570

Date _____

Dear Sir:

The undersigned agrees to furnish the equipment as requested by you for Santa Rosa County in your invitation to bid and certifies that the equipment bid meets or exceeds the specifications called for, except as set out in "Exceptions to Bid Conditions" and attached to this form.

Make and Model of Equipment _____

Name & Address of Bidder _____

Cash Bid Price FOB – Milton, Florida

17,950 GVWR Brush Truck	\$ _____	each
Optional back mount hose reel	\$ _____	each

Specify Warranty Information _____

Delivery Date **Must** Be Specified _____

Company Representative Signature

Telephone

NOTE: Please return this bid form to the above address. NO OTHER BID FORM WILL BE ACCEPTED.

COMMENTS: _____

**SWORN STATEMENT UNDER SECTION 287.133 (3) (A),
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES**

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to _____

by _____
(print individual's name and title)

for _____
(print name of entity submitting sworn statement)

whose business address is _____

_____ and (if applicable) its Federal Employer Identification Number (FEIN) is _____. If the entity has no FEIN, include the Social Security Number of the individual signing this Sworn Statement: _____.

2. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.

3. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

4. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:

1. A predecessor or successor of a person convicted of a public entity crime; or
2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of public entity crime.

5. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with legal power to enter into a binding contract and which bids or appeals to bid on contracts for the provision of goods and services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Indicate which statement applies.)

_____ Neither the entity submitting this sworn statement, nor one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____ The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officers determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list. (ATTACH A COPY OF THE FINAL ORDER.)

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH 1 (ONE) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

(Signature) _____

Sworn to and subscribed before me this _____ day of _____, 2_____.

Personally known _____

or Produced identification _____ Notary Public – State of _____

_____ My commission expires _____

(Type of identification)

(Printed, typed, or stamped commissioned name of notary public.)