

LEGAL NOTICE

INVITATION TO SUBMIT BIDS

The Burlington Fire Protection District is accepting bids for one (1) 100' Aerial Ladder Truck. Bidders shall submit sealed bids in the format specified in the Invitation to Submit Bids no later than **7:00 p.m. on Monday, April 12th, 2010** at which time the bids will be publicly opened and read aloud. Bidding documents may be obtained at the District's main station during normal business hours or online at www.burlingtonkyfire.org.

Bids may be picked up and must be hand delivered to the:

Burlington Fire Protection District
6050 Firehouse Drive
Burlington, KY 41005

A copy of all bids and requested materials must be delivered in a sealed envelope marked "Formal Bid for Aerial Ladder Apparatus".

The Burlington Fire Protection District will not discriminate in the purchase of all goods and services on the basis of race, color, creed, sex, handicap or national origin.

Verbal bids or bids received after the closing date will not be accepted. The Burlington Fire Protection District reserves the right to reject any and all bids, to waive technicalities or informalities and to accept any bid deemed to be in the best interest of the District.

SECTION I – GENERAL INFORMATION

- A. The Burlington Fire Protection District desires to purchase one (1) 100' aerial ladder truck to be delivered after January 1, 2011 but not later than June 30, 2011.

Questions should be directed to Shaun D. Klaserner, Assistant Chief at (859) 586-6161 during normal business hours or by email at sklaserner@burlingtonkyfire.org.

- B. The Burlington Fire Protection District reserves the right to reject any and all bids, to waive technicalities or informalities and to accept any bid deemed to be in the best interest of the District.
- C. The bidder shall abide by and comply with the true intent of the specifications and not take advantage of any unintentional error or omission, but shall fully address the full intent and meaning of each aspect of the specifications.
- D. Section II & III shall be completed and included as an integral part of each bidder's proposal.
- E. Delivery of the apparatus shall be the responsibility of the vendor and should be included in the bid.
- F. The District is a tax exempt organization.
- G. Each bidder is required to list on the proposal and bid form the latest date she/he expects delivery to be made at the destination in terms of time interval following issuance of a purchase order.

Delivery will be accepted by the Burlington Fire Protection District, 6050 Firehouse Drive, Burlington, KY 41005, ready for regular and safe operation.

- H. The Burlington Fire Protection District, in accordance with Title VI of the Civil Rights Act of 1964 and Title 49, Code of Federal Regulations, hereby notifies all Bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, creed, sex, handicap or national origin in consideration for an award.

SECTION II – SPECIFICATIONS AND PRICE BID FOR ONE (1) 100’ AERIAL LADDER TRUCK

SCHEDULE OF QUANTITIES AND PRICES

Please quote your lowest price, best delivery date and payment discount terms for the following. Quote on each option separately as per the following specifications. The District intends to award this contract within 60 calendar days.

Option A: Payment upon Delivery & Options

Description:	Quantity:	Unit Cost:	Total Cost:
100’ Aerial Ladder Truck per the attached specifications	1		
Bid Options:			
		Option Cost:	Total Cost:
Hydraulic Hose Reels (New) per the attached specifications			
Hydraulic Hose Reels (Remove & Re-Mount) per the attached specifications			
Ladder Tip Controls per the attached specifications			
Electronic Stability Control per the attached specifications			
Automatic Traction Control per the attached specifications			
Trade-In Options:			
	Quantity:	Trade-In Credit	
Trade-In of a 2003 Multi-Purpose Vehicle	1		
Trade-In of a 1992 100’ Aerial Ladder Apparatus	1		
	Number of days to deliver: (after receipt of Purchase Order)		

Option B: Pre-Payment upon Contract Signing

Description:	Quantity:	Unit Cost:	Total Cost:
100’ Aerial Ladder Truck per the attached specifications	1		
	Number of days to deliver: (after receipt of Purchase Order)		

SECTION III – SPECIFICATION COMPLIANCE

Unless otherwise noted, all bids for the apparatus shall be in complete accordance with the specifications detailed herein.

Bidders shall note in the space provided below any exceptions or deviations in any way from the specifications of any section of this ISB. Bidders should provide complete detail of exceptions or deviations.

Proposal Exceptions

Section:

Brief Description:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

By signature below, the vendor acknowledges any quotation to be in full compliance with all aspects of each section of the ISB not noted above. The undersigned hereby declares that no person or party other than the undersigned have any interest whatever in this proposal, that it is without any connection or collusion with any person or persons making or having made any proposal for the same work and without any previous understanding with such person or persons as to relative prices, obviating competition, and that it is made in good faith.

Company

Fax Number

Representative Name & Title

Telephone Number

Signature

E-Mail Address

**SPECIFICATIONS FOR ONE (1) 100' AERIAL LADDER TRUCK
FOR THE
BURLINGTON FIRE PROTECTION DISTRICT
BURLINGTON, KENTUCKY**

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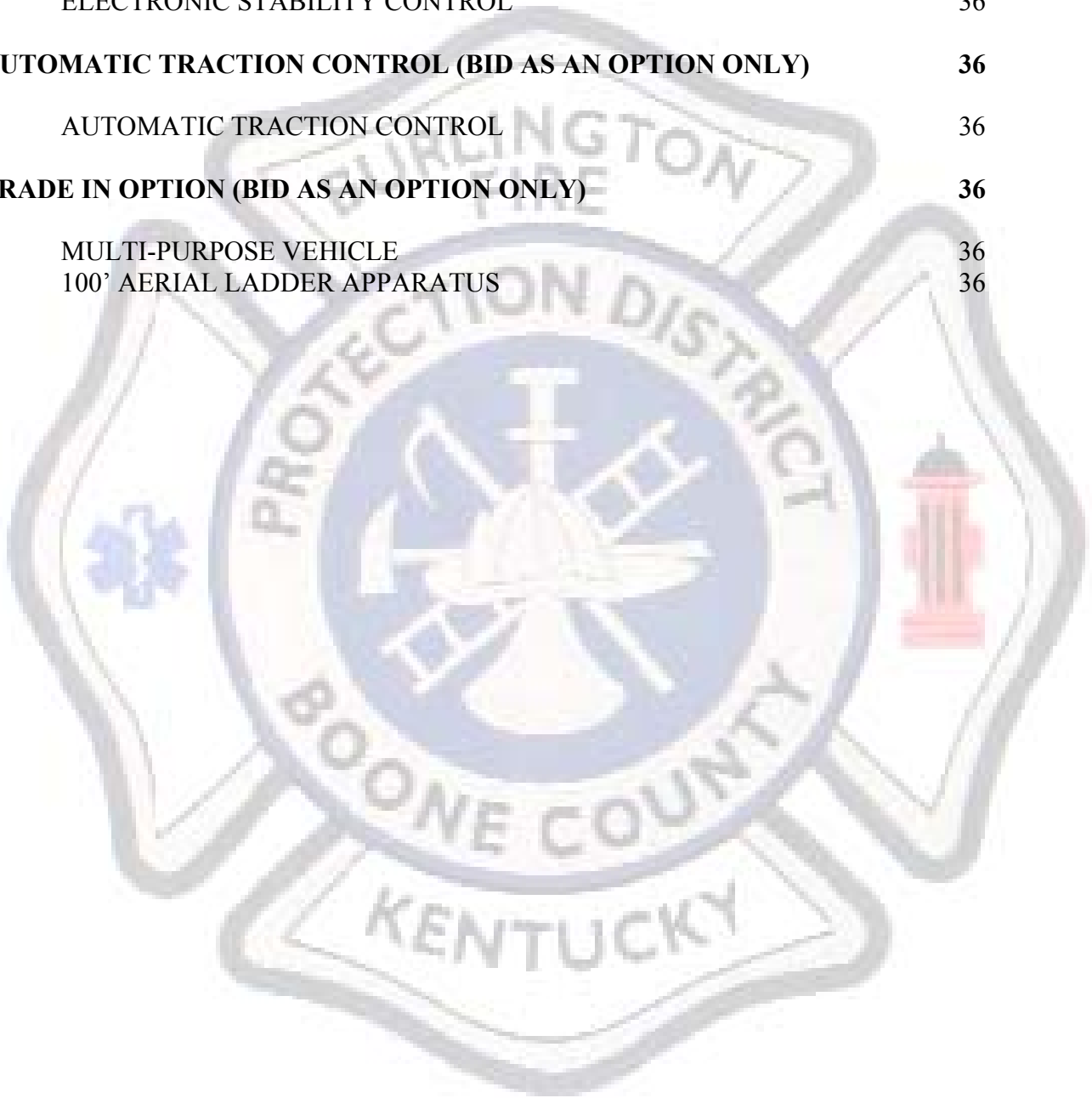
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**SPECIFICATIONS FOR ONE (1) 100' AERIAL LADDER TRUCK
FOR THE
BURLINGTON FIRE PROTECTION DISTRICT
BOONE COUNTY, KENTUCKY**

GENERAL

• INTENT OF SPECIFICATIONS

It shall be the intent of these specifications to clearly describe the furnishing and delivery to the Burlington Fire Protection District (Purchaser), a complete apparatus equipped as specified hereinafter. The primary objective of these specifications shall be to obtain the most acceptable apparatus for the service intended. These specifications cover general requirements as to the type of construction and tests to which the apparatus must conform, together with certain details as to finish, material preferences, equipment and appliances with which the successful bidder must conform.

The apparatus proposed by the bidder shall meet the applicable requirements of the National Fire Protection Association (NFPA), Standard 1901 as stated in the most recent edition at the time of contract execution. Loose equipment shall be provided only as stated on the following pages.

Each bidder shall furnish satisfactory evidence of their ability to design, engineer, and construct the apparatus specified and shall state the location of the factory producing the apparatus. They shall also substantiate they are in a position to render prompt and proper service and to furnish replacement parts for the apparatus proposed.

Each bid must be accompanied by a set of detailed contractor's specifications consisting of a detailed description of the apparatus and equipment proposed. These specifications shall include the size, location, type, and model of all component parts being furnished. Detailed information shall be provided on the materials used to construct all facets of the apparatus.

Bids shall be addressed and submitted in accordance with the instructions provided on the cover sheet. The words "Formal Bid for Aerial Ladder Apparatus", the date, and bid opening time shall be stated on the front of the bid envelope.

• SINGLE SOURCE MANUFACTURER

Bids shall only be accepted from single source apparatus manufacturers. A single source manufacturer is a manufacturer that designs and manufactures their products using an integrated approach, including the chassis, cab, and body being fabricated and assembled on the bidder's premises. The warranties relative to the chassis, cab and body design (excluding component warranties such as engine, transmission, axles, etc.) must be from a single source and not split between manufacturers.

• GENERAL DATA

The overall length of the apparatus is not to exceed 40' 6". The overall height is not to exceed 12' and the wheel base shall not exceed 240". The gross vehicle weight of the apparatus shall not exceed 70,000 lbs. and the seating capacity shall be six (6).

● **PRELIMINARY DRAWING**

A drawing of the proposed apparatus shall be provided with the bid. The drawing shall include the left and right side, front and rear elevation view of the apparatus as well as all body compartment dimensions.

● **PRE-CONTRACT MEETING**

A meeting shall be held between the apparatus committee, the sales representative and a representative of the manufacturer prior to contract signing for a thorough review and comparison of the Purchaser's bid specifications with the Bidder's detailed specifications, to ensure that all aspects of the detailed specifications have been addressed by the Bidder.

● **PRE-CONSTRUCTION MEETING**

A meeting shall be held between representatives of the apparatus committee, the sales representative and a representative of the manufacturer within 45 days of contract signing at the manufacturer's facility so that all specifications, details, drawings, questions and engineering work can be reviewed and approved by the Purchaser prior to commencement of any work being done on the apparatus. All travel and lodging expenses for this inspection shall be at the expense of the Purchaser.

● **PRE-DELIVERY INSPECTION**

There shall be a pre-delivery inspection performed by representatives of the apparatus committee at the manufacturing location. This inspection shall occur before the apparatus leaves the factory for delivery. All travel and lodging expenses for this inspection shall be at the expense of the Purchaser. Approval of the apparatus at the Pre-Delivery Inspection shall not constitute acceptance of the apparatus.

● **DELIVERY**

The apparatus, to insure proper break in of all components while still under warranty, shall be delivered under its own power to the District Headquarters located in Burlington, Kentucky.

● **TRAINING**

The manufacturer shall provide three (3) days of training covering apparatus maintenance and operations.

This training shall be provided by a full-time employee of the manufacturer who specializes in aerial training.

● **INFORMATION REQUIRED**

The manufacturer shall supply at the time of delivery, maintenance and operation manuals in electronic format (CD-ROM). This electronic manual shall be accessible from any computer operating system capable of supporting portable document format (PDF).

A permanent plate shall be mounted in the driver's compartment which specifies the quantity and type of fluids required for the apparatus.

● **LIABILITY**

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

● **SPECIFICATION BID REQUIREMENTS**

Bidder's shall indicate if their bid complies **on each item** (PARAGRAPH) specified. Exceptions (unless specified) shall be allowed if they are equal to or superior to that specified and provided they are listed and fully explained on a separate page.

● **CERTIFICATE OF INSURANCE**

Each bidder shall furnish, with their proposal, a Certificate of Product Liability Insurance. Failure to provide this documentation shall render the proposal non-responsive and the bid will be rejected.

The certificate shall be made out to the purchaser and must be original. Submission of a non-original certificate or a certificate provided that is not made out to the purchaser will not meet the requirements of this section.

● **BID BOND**

A bid security in the form of a Bid Bond, made payable to the Purchaser in the amount of 10% of the total bid shall be provided. This shall serve as a guarantee which may be forfeited and retained by the Purchaser in lieu of its other legal remedies if the bidder's proposal is accepted by the Purchaser and the bidder fails to execute and return to the Purchaser the required contract and bonds within ten (10) days after notice of award. The Bid Bond provided shall be issued by a bonding company licensed to bond in the Commonwealth of Kentucky.

● **PERFORMANCE BOND**

The bidder shall provide, within ten (10) days after award of the contract, along with a signed copy of the contract, a performance bond which guarantees performance of all terms and conditions of the contract. The performance bond will specifically cover the performance of the contract according to its terms and conditions, as well as payment of all related bills and encumbrances. The performance bond shall be issued by a surety company who is approved by the U.S. Department of Treasury. The performance bond shall be issued in an amount equal to 100% of the contract amount and shall be dated concurrent to, or subsequent to, the date of the contract.

● **PENALTY CLAUSE**

A penalty of two-hundred dollars (\$200.00) per day will be assessed against the bidder for each day after the contract stated delivery date. Time is of the essence regarding the delivery time frame.

CHASSIS

● CHASSIS

The chassis shall be manufactured in the apparatus body builder's facility, thus eliminating any split responsibility. The chassis shall be designed and manufactured for heavy-duty service, with adequate strength and capacity for the intended load to be sustained.

The chassis frame and undercarriage components shall be painted black.

● FRONT BUMPER

A heavy duty 10" high steel channel type front bumper, extended a minimum of 20" from the front of the cab shall be provided. The front corners of the bumper shall be angled at 45 degrees to reduce swing clearance.

The bumper shall be painted the same as the apparatus exterior color.

A gravel pan, constructed of bright aluminum treadplate, shall be furnished between the bumper and cab face. The gravel pan shall be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.

● BUMPER GUIDES

Two (2) bumper guides shall be provided and mounted, one (1) on each side of the bumper. The guides shall be polished stainless steel and lighted at the top.

The lights shall activate with the parking lights and when the apparatus turn signal is activated.

● FRONT AXLE

The front axle shall be appropriately rated for the apparatus proposed and have a nominal cramp angle of at least 45 degrees.

A sight glass shall be provided on each side of the axle to check the lubricant level of the axle spindles.

● REAR TANDEM AXLE

The rear tandem axle shall be appropriately rated for the apparatus proposed.

● REAR AXLE RATIO

A rear axle ratio shall be provided to allow the apparatus to reach an approximate top speed of 67 to 70 MPH.

● TIRES

The tires shall have tread suitable for both mud and snow.

- **TIRE PRESSURE MONITORING SYSTEM**

The apparatus shall be provided with a tire pressure monitoring system using either indicating valve stem caps or an in the cab monitoring system.

- **RIMS**

The rim and axle hubs shall be painted to match the apparatus exterior color. The rims shall be trimmed in silver paint to complete the wheel finish.

- **WHEEL ALIGNMENT**

In order to achieve maximum apparatus road performance and to promote long tire life a wheel alignment shall be provided. All wheel lug nuts and axle u-bolt retainer nuts shall be tightened to the proper torque at the time of alignment.

- **LUG NUT COVERS**

Chrome plated lug nut covers shall be provided on each lug nut.

- **MUD FLAPS**

Mud flaps shall be provided behind the front wheels and the rear dual wheels of the apparatus.

- **WHEEL CHOCKS**

Two (2) Zico model "SQCH-44-H" horizontal holders and two (2) Zico model "SAC-44" wheel chocks shall be provided and mounted on the driver's side of the apparatus.

- **DRIVER CONTROLLED DIFFERENTIAL**

A driver controlled main differential lock shall be provided. Operated from within the cab, it reduces wheel spinouts by transferring power from the slipping wheel to the wheel with traction.

- **BRAKES**

The front disc brakes shall be appropriately sized for the apparatus proposed.

The rear s-cam brakes with cast brake drums shall be appropriately sized for the apparatus proposed.

- **ANTI-LOCK BRAKING SYSTEM**

An anti-lock braking system shall be provided to prevent the wheels of the apparatus from locking up during braking.

- **ENGINE**

The apparatus shall be provided with a Cummins electronic diesel engine rated at a minimum of 500-hp.

If available a 2007 EPA compliant engine is preferred.

● **SECONDARY BRAKING**

A Jacobs engine brake shall be provided to assist in slowing and controlling the apparatus. An on-off control switch and a high-low selector switch shall be mounted in the cab within easy reach of the driver.

When the on-off switch is in the “on” position, the engine brake shall be automatically applied whenever the accelerator is in the idle position and the transmission is in the lock-up mode. If the accelerator is depressed or if the on-off switch is placed in the “off” position, the engine brake shall immediately release and allow the engine to return to its normal function.

● **EXHAUST SYSTEM**

The exhaust system shall be a minimum of 4” in diameter and exit, MagneGrip ready, on the officer’s side of the apparatus ahead of the rear wheels.

● **TRANSMISSION**

The apparatus shall be provided with an Allison EVS4000P, electronic, 5-speed automatic transmission.

● **TRANSMISSION SELECTOR**

A push button shift module shall be located to the right of the steering column, within easy reach of the driver.

● **TRANSMISSION FLUID**

The transmission shall be provided with TransSynd, or TES 295 equivalent heavy duty synthetic transmission fluid.

● **CLUTCH TYPE COOLING FAN**

The engine shall be equipped with a thermostatically controlled engine cooling fan.

● **FUEL SYSTEM**

The fuel tank provided shall have a minimum capacity of 50 U.S. gallons and plumbed with top-draw and top-return fuel lines in order to protect the lines from road debris.

An auxiliary 12-volt fuel pump shall be provided in the fuel system. The electric pump shall permit re-priming of the fuel lines and engine.

A fuel/water separator shall be provided with a drain. The unit shall utilize a three-step separate process: centrifuge for primary contaminant separation, conical baffles for water coalescing, and a replaceable filter for final particulate removal. The separator shall have a bottom drain for removing contaminants and heated.

A shut-off valve shall be provided to prevent drain back of fuel into the main supply line during filter changes.

Two (2) 2” diameter fuel fill inlets shall be provided, one (1) on each side of the apparatus in the rear wheel well area with a chain cap.

● **ALTERNATOR**

There shall be a minimum of a 320 amp alternator provided. The alternator shall be a brushless type with integral rectifier and adjustable voltage regulator.

● **BATTERY SYSTEM**

The battery system provided shall have a minimum combined rating of 6,000 cold cranking amps @ 0 degrees Fahrenheit and 1,230 minutes of reserve capacity for extended operation.

One (1) positive and one (1) negative jumper stud shall be provided below the battery box to allow for jump starting of the apparatus without raising the cab.

● **BATTERY CHARGER**

A battery charging system shall be provided and connected directly to the shoreline. The system shall provide a signal from a remote charge indicator panel if battery voltage drops below 11.5 volts. The panel shall be located near the shoreline receptacle.

● **SHORELINE RECEPTACLE**

One (1) receptacle shall be provided and installed at the driver’s seat riser area, near the air inlet.

● **BACK-UP ALARM**

An electronic back-up alarm shall be provided and wired into the apparatus back-up lights to signal when the apparatus is in reverse.

CAB

● **CAB TYPE**

The cab shall be distinguished by an all-welded aluminum and fully enclosed tilt-type cab designed exclusively for the fire service and pre-engineered to ensure a long life.

The inner structure shall be designed to create an interlocking internal “roll-cage”.

● **CAB EXTERIOR**

The exterior of the cab shall be a minimum of 94” wide x 130” long to allow for sufficient room within the cab. The back-of-cab to front axle length shall be a minimum of 58”.

Front axle fenderette trim shall be brushed aluminum for appearance and corrosion resistance. Bolt-in front wheel well liners shall be constructed of a composite material to provide a maintenance-free, damage-resistant surface that helps protect the underside of the cab structure and components from stones and road debris.

The cab windshield shall be of a two-piece replaceable design for lowered cost of repair.

A slip resistant handrail shall be provided adjacent to each door opening to assist with entry into the cab.

Two (2) fixed windows shall be provide, one (1) on each side of the cab between the front and rear doors.

● CAB MOUNTS AND CAB TILT SYSTEM

The cab shall be independently mounted from the body and chassis to isolate the cab structure from stresses caused by chassis twisting and body movements. Mounting points shall consist of two (2) forward-pivoting points, one (1) on each side; two (2) intermediate rubber load-bearing cushions located midway along the length of the cab, one (1) on each side; and two (2) combination rubber shock mounts and cab latches located at the rear of the cab, one (1) on each side.

An electric-over-hydraulic cab tilt system shall be provided to provide easy access to the engine. It shall consist of two (2) large-diameter, telescoping, hydraulic lift cylinders, one (1) on each side of the cab, with a frame-mounted electric-over-hydraulic pump for cylinder actuation.

The entire cab shall be tilted through a 45 degree arc to allow for easy maintenance of the engine, transmission and engine components. A positive-engagement safety latch shall be provided to lock the cab in the full tilt position to provide additional safety for personnel working under the raised cab.

In the lowered position, the cab shall be locked down by two (2) automatic, spring-loaded cab latches at the rear of the cab. A “cab ajar” indicator light shall be provided on the instrument panel to warn the driver when the cab is not completely locked into the lowered position.

● CAB INTERIOR

The interior of the cab shall be of the open design with an ergonomically-designed driver area that provides ready access to all controls as well as a clear view of critical instrumentation.

The engine cover between the driver and officer shall be a low-rise contoured design to provide sufficient seating and elbow room for the driver and officer. The engine cover shall blend in smoothly with the interior dash and flooring of the cab.

An aluminum equipment mounting plate shall be provided between the driver and officer on the engine cover. The plate shall be spaced approximately ½” up to provide clearance for equipment mounting hardware.

The rear portion of the engine cover shall be provided with a lift-up section to provide easy access for checking transmission fluid, power steering fluid, and engine oil without raising the cab.

The rear wall of the cab shall be covered with aluminum plate to protect against damage and provide a long service life.

The cab floor area shall be covered with aluminum treadplate to ensure an aggressive slip-resistant surface and long service life.

The dash, overhead console, windshield posts, headliner, and door post trim shall be covered with thermoformed, non-metallic, non-fiber trim pieces or panels to provide excellent scuff and abrasion resistance.

A seven-position tilt and telescopic steering column to accommodate various size driver's shall be provided with an 18" padded steering wheel and center horn button.

A full-width overhead console shall be mounted to the cab ceiling for placement of warning light switches, siren controls and mobile radios heads. The console shall be made from a thermoformed, non-metallic material and shall have easily removable mounting plates.

Storage areas, with hinged access doors, shall be provided below the driver and officer seats.

A black rubber grip handle shall be provided on the interior of each door below the door window to ensure proper hand holds while entering and exiting the cab. An additional black rubber grip handle shall be provided on the left and right side windshield post for additional hand holds.

The interior of the apparatus cab shall be gray.

● CAB DOORS

The interior of each cab door shall be covered with stainless steel to protect against damage and provide a long service life.

The doors shall be securely fastened to the doorframes with full-length, stainless steel piano hinges.

Stainless steel paddle-style door latches shall be provided on each cab door. "L"-type door handles shall be provided on the exterior of the doors.

Full roll-down windows shall be provided on each of the cab doors.

● CAB INSTRUMENTS AND CONTROLS

Cab controls shall be located on the cab instrument panel in the dashboard on the driver's side where they are clearly visible and easily reachable. Emergency warning light switches shall be installed in removable panels for ease of service.

Controls and switches shall be identified as to their function by backlit wording adjacent to each switch, or indirect panel lighting adjacent to the controls.

● FAST IDLE SYSTEM

A fast idle system shall be provided and controlled by a cab-mounted switch. The system shall increase engine idle speed to a preset RPM for increased alternator output.

● ELECTRICAL SYSTEM

The apparatus shall be provided with a multi-plexing electrical system, to provide diagnostic capability. The electrical system shall be pre-wired for computer modem accessibility to allow service personnel to easily plug in a modem to allow remote diagnostics, troubleshooting, or program additions.

All electrical components shall be located such that standard operations shall not interfere with or disrupt apparatus operations. An automatic thermal-reset master circuit breaker compatible with the alternator size shall be provided. An access cover shall be provided for maintenance access to the electrical distribution area.

A four (4) place constantly hot and four (4) place ignition switched fuse panel and ground for radios and chargers shall be provided at the electrical distribution area. Radio suppression shall be sufficient to allow radio equipment operation without interference.

An additional four (4) place constantly hot and four (4) place ignition switched fuse panel and ground for portable radio chargers and other equipment chargers shall be provided in the cab storage compartment.

All wiring shall be mounted in the chassis frame and protected from impact, abrasion, water, ice, and heat sources. Any wiring connections exposed to the outside environment shall be weather-resistant.

● CAB MIRRORS

Two (2) Ramco model 6001FFR remote controlled aluminum mirrors shall be provided and mounted on the front corners of the cab. The mirrors shall incorporate a full face main section with a convex mirror with housing, model CAS750, mounted to the top. Adjustment to the mirrors shall be through dash mounted switches.

● CAB HEATER/DEFROSTER/AIR CONDITIONER

A system shall be provided to adequately heat and/or cool all parts of the apparatus cab. Defrosting of the windshield and front side windows shall also be provided.

The air conditioning system shall be capable of cooling the interior of the cab from 100 degrees ambient temperature to 75 degrees or less with 50% relative humidity in 30 minutes or less.

● SEATING

One (1) H.O. Bostrom 400 Series Sierra Air-100RX4 seat shall be provided and installed in the driver's position. Adjustment controls shall be located within easy reach of the driver.

One (1) H.O. Bostrom Tanker 450 SCBA seat shall be provided and installed in the officer's position.

Two (2) H.O. Bostrom Tanker 450 SCBA seats shall be provided and installed rear-facing in the wheel well behind the driver and officer positions.

Two (2) fold down non-SCBA seats shall be provided and installed forward-facing on the rear wall with the center of the seat approximately 26" from the center of cab, one on each side.

Each seat shall be gray in color and covered with a Durawear material.

All seat positions shall have a bright red retractable 3-point lap and shoulder harness, providing additional safety and security for personnel. Extensions shall be provided with the seat belts so the male end can be easily grasped and the female end easily located while sitting in a normal position.

The H.O. Bostrom SecureAll SCBA Locking System shall be provided for each SCBA seat. The bracket system shall be free of straps and clamps that may interfere with auxiliary equipment on SCBA units. The standard release handle shall be integrated into the seat cushion for quick and easy release.

● **STORAGE COMPARTMENT**

There shall be an interior cab storage compartment provided and installed on the back wall of the cab with a roll-up door. The compartment shall be constructed of smooth aluminum plate approximately 48" high by 24" wide by 20" deep and painted to match the interior color of the cab.

Two (2) vertically adjustable shelves shall be provided and installed in the compartment. Each shelf shall have a 1" front for added strength and reinforcement.

● **RADIO WITH CD PLAYER**

The apparatus shall be equipped with an AM/FM stereo CD with weatherband located on the officer's side of the apparatus. Four (4) radio speakers shall be provided and installed two (2) in the front and two (2) in the rear of the cab.

The radio speakers shall be installed in such a way that anytime the emergency lights are activated the speakers are silenced.

A side-mounted antenna located on the officer's side of the cab shall be provided.

● **ANTENNAS**

There shall be two (2) antennas, supplied by the purchaser, mounted by the manufacturer on the roof of the apparatus, one (1) for a VHF radio and one (1) for an MDC. The location of the antennas shall be determined at the pre-construction meeting.

● **AIR INLET**

A single brass quick-release air inlet with a male connection shall be provided. The inlet shall allow a station shoreline air hose to be connected to the apparatus, discharging air directly into the wet tank. It shall be located in the driver side lower step well of the cab.

- **12-VOLT OUTLET**

Two (2) plug-in type 12-volt receptacles shall be provided and installed one (1) on the officer's side dash and one (1) on the rear wall of the cab centered on-top of the storage compartment.

APPARATUS BODY

- **APPARATUS BODY**

The body shall be constructed entirely of aluminum.

The body shall incorporate a rescue style body design to maximize compartment space and provide the maximum amount of compartment space available within the limitations set forth for the apparatus in the general section of this bid. The rescue style left and right side body shall combine upper and lower compartments to provide more efficient use of body storage capacity.

The top of the body side assemblies shall be covered with bright aluminum treadplate to minimize maintenance and allow for mounting of equipment.

The body shall be designed to accommodate four (4) apparatus stabilizer jacks, two (2) on each side. One (1) set shall be provided behind the rear axle and one (1) set shall be provided ahead of the rear axle. A stabilizer cover to provide a pleasing appearance shall be provided on each stabilizer.

The rear axle wheel well trim shall be constructed from a formed aluminum extrusion and painted the same color as the exterior of the apparatus. The wheel well liners shall be constructed of a composite material, bolt-in and provide a maintenance-free and damage-resistant surface.

The rear body shall be designed to provide ground ladder storage, hook storage and service access to aerial ladder components. The center rear of the body shall be open for ground ladder storage and the area below the ground ladder storage shall be for a waterway inlet.

The rear body platework shall be smooth to allow for chevron striping.

- **HORIZONTAL LADDER BRACKET**

Brackets shall be provided and mounted above the transverse compartment on the drivers' side to secure a Model 17 Little Giant ladder.

- **HORIZONTAL STOKES BRACKET**

Brackets shall be provided and mounted above the transverse compartment on the officers' side to secure a Model JSA-200 Junkin Plastic Stetcher.

- **LADDER TUNNEL**

To provide low level ladder access, there shall be a ladder tunnel provided at the rear of the apparatus beneath the aerial ladder frame work. The tunnel shall accommodate two (2) 35' 2-section extension ladders, one (1) 28' 2-section extension ladder, one (1) 20' roof ladder, one (1) 16' roof ladder, and one (1) 10' folding attic ladder.

The compartment shall be constructed in such a way that the ladders are totally enclosed, held captive top and bottom by aluminum tracks and slide on friction reducing material. Each ladder shall be removable individually.

A pair of vertically hinged doors that match the rear body finish with D-ring handles shall be provided to access the ladder storage compartment. Each door shall open a full 90 degrees to allow for the easy removal of ground ladders.

● **AERIAL LADDER TURNTABLE ACCESS**

To allow for continuous egress from the turntable to the ground two staircases shall be provided on the rear of the body. The staircases shall be mounted inboard of the taillights and outboard of the ground ladder storage area.

A pair of pocket style access steps shall be provided at the back of the apparatus to reduce the stepping height from the ground to the turntable staircase.

All handrail stanchions shall be located in such away that they do not interfere with aerial ladder operations at low angles.

● **DUNNAGE AREA**

An open storage area on top of the body between the side compartments shall be provided and finished with bright aluminum treadplate.

Working within the limitations of the apparatus as set forth in the general section of this bid the storage area provided should utilize the maximum amount of space available.

● **COMPARTMENTATION**

The compartments shall be modular in design and shall not be part of the body support structure.

A minimum of one (1) set of louvers to facilitate proper ventilation within the compartment shall be provided.

To maximize space within the compartments located over the rear wheel wells standard pan compartment doors shall be provided and painted the apparatus exterior color. The doors shall be installed in such a way that they open up and out of the way. The doors shall be held open with a gas shock-style hold-open device. A switch shall be provided for door ajar indication and compartment light activation.

All other side compartment doors shall be ROM brand roll-up doors with water dam sill plates to prevent water from entering the compartment and painted to match the apparatus exterior color. A magnetic type switch integral to the door shall be provided for door ajar indication and compartment light activation.

A ROM drip pan shall be provided for each roll-up door. The drip pan shall be made from a high strength aluminum alloy.

- **SHELVES**

Three (3) adjustable shelves shall be provided and mounted on the driver's side of the apparatus in the compartment just forward of the rear wheels. The tracks shall be mounted to the front of the compartment wall and the side of the stationary tool board located within the compartment.

Two (2) additional stationary shelves shall be provided and mounted in a location to be determined at the pre-construction meeting, most likely in the compartment and/or compartments on the officer's side of the apparatus behind the rear wheels. The shelves shall be sized, width and depth, to match the size of the compartment and/or compartments.

- **TRAYS/TOOLBOARDS**

One (1) roll-out/tilt-down tray shall be provided, with adjustable mounts, in the larger of the two (2) compartments on the officer's side of the apparatus over the rear wheel well. A positive twist lock shall be provided to lock the tray in the stored position. The tray shall roll-out approximately 90% from its stored position and shall tip 30 degrees from horizontal.

One (1) floor mounted roll-out tray shall be provided and mounted in the bottom of the transverse compartment on the driver's side. The tray shall be sized in width and depth, as applicable. For greater tray accessibility, the drawer slides shall feature 100% extension. The tray shall utilize a pneumatic shock to secure the tray in the open or closed position.

Two (2) roll-out trays shall be provided and mounted in the transverse compartment on top of the frame rails, one (1) on each side of the apparatus. The trays shall be sized in width and depth, as applicable. For greater tray accessibility, the drawer slides shall feature 100% extension, however the trays do not need to come completely out of the compartment. The tray shall utilize a pneumatic shock to secure the tray in the open or closed position.

Two (2) adjustable roll-out tool boards shall be provided and mounted on the officer's side of the apparatus in the compartment just forward of the rear wheels.

Two (2) stationary tool boards shall be provided and mounted on the driver's side of the apparatus, one (1) in the compartment just forward of the rear wheels and one (1) in the compartment just behind the rear wheels, splitting the compartments in half.

- **RUBRAIL**

A rubrail shall be provided along the length of the body on each side and at the rear.

The rubrail shall be of a C-channel design to allow marker and warning lights to be recessed inside for protection.

The area inside the rubrail C-channel shall be inset with a reflective material for increased side and rear visibility.

- **AUXILIARY GROUND PADS**

Four (4) auxiliary ground pads shall be provided. The pads shall be at least 24" x 24" in size and have a grab handle welded on one (1) side. The pads shall be stored in brackets that are welded below the body.

- **REAR HOOK STORAGE**

Storage for six (6) hooks shall be provided at the rear of the body. The storage area shall be labeled for two (2) 6' hooks, two (2) 8' hooks and two (2) 12' hooks. A hinged door that matches the rear body finish shall be provided to secure the hooks in place.

- **SCBA BOTTLE STORAGE**

Storage tubes for as many 45-minute 4500# SCBA bottles as possible shall be provided on the driver's side of the apparatus within the large compartment located over the rear wheel well.

Eight (8) storage compartments for 45-minute 4500# SCBA bottles shall be provided, four (4) on each side of the apparatus in the rear wheel well area. Each SCBA bottle shall be held in place by a hinged cast aluminum door with a positive latch and shall include an inner door seal for increased protection against the elements. The inner SCBA storage tube shall be made of high strength polyethylene to provide additional protection to the surface of the SCBA bottles.

AERIAL LADDER

- **AERIAL LADDER**

An aluminum telescopic aerial ladder shall be installed at the rear of the apparatus with the aerial pointed forward when it is in the travel position. The ladder shall be a minimum 100' in length.

The aerial ladder shall consist of four (4) telescopic ladder sections capable of operating from minus (-) 6 degrees to plus (+) 76 degrees at any ladder extension to give a full range of movement.

The ladder rungs shall be designed to eliminate the need for rubber rung covers.

- **AERIAL LADDER EXTENSION INDICATOR**

Reflective tape stripes shall be installed on the ladder top handrail of the base section to indicate extension in 5' increments. Numeric indicators shall be placed at 10' intervals. A reflective dot on the base of the 2nd section shall provide a visual reference for the operator to estimate aerial extension.

- **AERIAL LADDER RATED CAPACITY**

The aerial ladder shall have a rated tip capacity of at least 500 lbs. when the ladder is unsupported at full extension, zero (0) degrees elevation and flowing water.

● HYDRAULIC SYSTEM

Hydraulic power for all aerial ladder operations shall be supplied by the positive displacement power steering pump mounted on the apparatus engine to provide consistent pressure and rapid response. The pump shall operate both the apparatus power steering system and the aerial ladder hydraulic system. It shall draw hydraulic fluid from a single reservoir, ensuring that the hydraulic fluid is circulated and warmed while the apparatus is responding to an incident, thus protecting the aerial ladder hydraulic system from extreme cold.

An activation switch with a system “engaged” indicator light shall be provided and installed within easy reach of the driver.

● STABILIZATION

The stabilizers shall not exceed a spread of 12’ centerline to centerline of the stabilizer pads when fully extended.

Apparatus stabilization shall be accomplished without the assistance of the chassis suspension or tires in contact with the ground.

The stabilizer ground contact area for each foot pad shall be a minimum of 10” x 14” without auxiliary pads and 24” x 24” with auxiliary pads deployed.

● STABILIZER CONTROLS

To simplify leveling of the apparatus, two (2) color-coded level indicators shall be supplied at the rear of the apparatus. One (1) indicator shall be for front-to-rear level and one (1) for side-to-side level.

● AERIAL LADDER OPERATING POSITION & COVER

The aerial ladder operator’s position shall be located on the driver’s side of the aerial turntable.

A diamond plate hinged cover shall be supplied to protect the console from the elements. The cover shall latch in the stored position and swing away from the console so as not to interfere with sight of the aerial device.

● RUNG ALIGNMENT INDICATOR

A light on the control console shall indicate when the ladder rungs are aligned for climbing.

● AERIAL ALIGNMENT INDICATOR

A reflective arrow mounted to the body and to the turntable shall be provided to indicate when the aerial is aligned for bedding.

● LOAD INDICATION SYSTEM

A lighted elevation/safe load indicator diagram that is easy to read shall be provided mounted to the ladder base section to indicate safe load capacity at any angle of elevation.

- **AERIAL WATERWAY**

A 1,000 gpm pre-piped waterway shall be provided. The tubular waterway shall run under the aerial ladder.

The water system shall be capable of flowing 1,000 gpm at 100 psi nozzle pressure at full elevation and extension.

- **PINNED WATERWAY**

A remote-controlled monitor/nozzle assembly shall be attached to the ladder fly section that allows the monitor/nozzle assembly to be positioned at the tip of the fly section for maximum master stream reach or at the tip of the next section down for unobstructed rescue capabilities. The monitor/nozzle assembly shall be pinable at either operating location.

- **WATERWAY RELIEF VALVE**

An automatic relief valve preset at 250 psi shall be provided in the aerial waterway to prevent over-pressurization of the waterway system. The relief valve shall be installed in the lower portion of the waterway and dump under the apparatus.

- **ELECTRIC MONITOR**

An electrically controlled monitor with a straight stream to fog nozzle shall be provided. The monitor/nozzle shall be capable of discharging 300 to 1,000 gpm at 100 psi nozzle pressure.

Control switches for horizontal movement, vertical movement and pattern selection shall be located at the ladder tip and aerial ladder operator's position.

The monitor shall be painted to match the apparatus exterior color.

- **WATERWAY INLET**

One (1) 4" male NST threaded inlet shall be provided at the rear of the apparatus and shall be connected to the vertical pedestal waterway piping to supply water to the aerial waterway from an outside source.

- **WATERWAY PRESSURE GAUGE**

One (1) weatherproof 2 1/2" compound vacuum pressure gauge shall be provided adjacent to the waterway inlet. The gauge shall be filled with a liquid solution that is not susceptible to freezing.

- **AERIAL LADDER INFORMATION SYSTEM**

The aerial ladder shall be equipped with an electronic system that displays critical information to the operator for added safety.

The system shall include both audible and visual alarms to indicate when the tip temperature is greater than 300°F and hydraulic oil temperature is above 190°F.

The system shall detect faults through routine self-diagnostics.

- **LIFTING EYE**

A lifting eye shall be provided at the tip of the ladder. The eye shall be constructed with a slotted hole to allow for webbing to easily pass through. The lifting eye shall allow for a load of 500 lbs.

- **AXE BRACKET**

An ax bracket shall be provided at the tip of the ladder consisting of one (1) blade bracket and one (1) handle restrainer.

- **HOOK MOUNT**

A tube shall be provided at the tip of the ladder for storage of a 6' hook.

- **TURNTABLE SAW STORAGE BOX**

A diamond plate saw storage box appropriately sized to hold a Stihl model "TS410" quick cut saw shall be provided on the officer's side of the aerial ladder turntable. The box shall have an outwardly hinged lid with a butterfly latch.

- **ROOF LADDER BRACKET**

A lift-out style roof ladder mounting bracket shall be provided on the outside of the ladder base section. The bracket shall be designed to hold a Alco-Lite model "PRL-14" 14' roof ladder.

- **AERIAL LADDER SIGN PLATE**

Two (2) 10" x 144" smooth plates shall be provided and bolted on either side of the aerial ladder base section, approximately at the midpoint.

The plates shall be painted to match the apparatus exterior color.

REAR VISION SYSTEM

- **REAR VISION SYSTEM**

The apparatus shall be provided with a rear vision system. The monitor shall be installed on the front console area visible at night and in bright sunlight by the driver. The camera shall be mounted up high at the rear of the apparatus to provide a wide angle rear view.

A diamond plate shield shall be provided for the top and sides of the camera. The shield shall be designed as not to impede in the operational envelope of the camera.

120/240 VOLT AC ELECTRICAL SYSTEM

● HYDRAULIC GENERATOR

A Smart Power model “#ER110” modular style 10,000 watt hydraulic generator shall be provided and mounted in the dunnage area.

The unit shall come equipped with: modular generator unit (which includes the hydraulic motor and filter, generator, hydraulic reservoir and cooler), axial piston hydraulic pump and a gauge panel.

The gauge panel shall display voltage, hour meter, frequency, and amperage.

The hydraulic motor, generator, blower, cooler, and necessary hydraulic components shall be mounted in a rugged steel case.

The hydraulic pump shall be driven by the apparatus transmission mounted power take off (PTO).

A PTO engage switch and generator control switch shall be mounted on the cab instrument panel to engage the PTO and start the generator.

● CIRCUIT BREAKER PANEL

A twenty (20) place breaker box with up to twenty (20) appropriately sized ground-fault interrupter circuit breakers shall be provided. The breaker box shall include a master breaker sized according to the generator output. The location of the breaker box will be determined at the pre-construction meeting; however the run of the main wire shall not exceed 12’.

● CAB BROW QUARTZ LIGHTS

Two (2) cab brow quartz lights of at least 750 watts shall be provided and mounted in a special bracket on the front of the cab centered over each window.

● TELESCOPIC QUARTZ LIGHTS

Two (2) quartz lights of at least 750 watts shall be provided and mounted on 40” telescopic poles, one (1) on each side of the apparatus.

The light assembly shall be internally mounted in the body extrusion forward of the transverse compartment. The pole shall allow for 360-degree rotation of the light. A locking knob shall hold the pole at the desired height.

● REMOVABLE QUARTZ LIGHTS

Two (2) quartz lights of at least 750 watts shall be provided and mounted on portable bases, one (1) on each side of the apparatus.

The light assembly shall be mounted over the rear wheel well compartment. A release latch shall be provided to allow the light to also be used as a portable freestanding base unit.

- **AERIAL LADDER TIP QUARTZ LIGHTS**

Two (2) quartz lights of at least 750 watts shall be provided in mounts that allow the lights to swivel, one (1) on each side of the aerial ladder tip.

- **REMOTE SWITCHES**

Relays and switches shall be provided to allow for operation of the quartz scene lights from within the cab of the apparatus by the driver. Switches to control the front brow lights, driver's side body lights, officer's side body lights and aerial ladder tip lights shall be provided.

- **APPARATUS RECEPTACLES**

Eight (8) 20 amp, 110 volt 3-prong straight blade (NEMA #5-20) duplex receptacles shall be provided with a weatherproof cover plate and mounted as follows: One (1) on each side of the front bumper next to the lower level emergency warning light, one (1) on each side of the apparatus in the area of the rear wheel well, one (1) on each side of the apparatus on the rear under the lower level emergency warning light, and one (1) on each side of the apparatus over the rear wheel well compartment for the portable quartz scene light.

- **AERIAL LADDER TIP RECEPTACLE**

One (1) 20 amp, 110 volt 3-prong straight blade (NEMA #5-20) duplex receptacle shall be provided with a weatherproof cover plate and mounted at the tip of the aerial ladder.

- **CAB RECEPTACLE**

One (1) 20 amp, 110 volt 3-prong straight blade (NEMA #5-20) duplex receptacle shall be provided and mounted inside the compartment located in the cab and wired hot while the apparatus is plugged into a shoreline.

NON-EMERGENCY LIGHTING

- **NON-EMERGENCY LIGHTING**

Two (2) dual rectangular sealed beam halogen headlights shall be provided on the front of the cab, one (1) on each side, mounted in a polished chrome-plated bezel. The low beam headlights shall activate with the release of the parking brake to provide daytime running lights (DRL) for additional safety. The headlight switch shall automatically override the DRL for normal low beam/high beam operation.

Two (2) Whelen model "60A00TAR" LED amber turn signals, one (1) on each side shall be provided and mounted in polished chrome-plated bezels, located above the front emergency light and headlight stack.

The apparatus proposed by the bidder shall meet the applicable requirements of the Department of Transportation (DOT), as stated in the most recent edition at the time of contract execution with regards to clearance lights and reflectors. All lights provided shall be LED.

Two (2) Zico model “ZQL-SS-H7614” auxiliary back-up lights shall be provided, one (1) on each side of the apparatus and mounted in the rear wheel well area. The lights shall be activated when the apparatus is placed in reverse for additional lighting.

There shall be a clear LED license plate light provided at the rear of the apparatus.

Two (2) Whelen model “CAST4” quad stack polished cast aluminum housings shall be provided and mounted, one (1) on each side of the apparatus rear. One (1) Whelen model “60R00XRR” red LED brake/tail light shall be provided in the first position of the stack, One (1) Whelen model “60A00TAR” amber LED turn signal shall be provided in the second position of the stack, and one (1) Whelen model “60J000CR” certified back-up light shall be provided in the third position of the stack.

● CAB INTERIOR LIGHTING

Four (4) LED cab dome light assemblies with one (1) clear lens and one (1) red lens shall be provided and mounted two (2) in the front of the cab, one (1) on each side in the ceiling above the driver and officer and two (2) in the rear of the cab, one (1) on each side in the ceiling between the rear-facing and forward-facing flip-down seats. The clear light shall activate when the appropriate cab door is opened or the light assembly mounted push-button switch is depressed. The red light shall activate only when the light assembly mounted push-button switch is depressed.

● CAB STEP WELL LIGHTING

There shall be four (4) clear LED lights provided to illuminate the cab step well area. One (1) light shall be located on each cab door in the inboard position. Each light shall be activated by the cab door ajar circuit.

● COMPARTMENT LIGHTING

Each compartment over four (4) cubic feet in size shall be provided with LED lighting to illuminate the compartment when the door is open. A switch shall be provided on each door that activates the compartment lighting when the door is in the open position.

● EXTERIOR STEP WELL LIGHTING

To ensure sufficient illumination of each step, clear LED lights shall be provided. An on/off weather-resistant switch for the step lights shall be located at the rear of the apparatus in the area of the turntable access staircase.

● GROUND LIGHTING

To ensure sufficient illumination around the apparatus, clear LED lights shall be provided. Lights in areas under the cab doors shall activate automatically when the cab is opened.

● SCENE LIGHTING

Two (2) Federal model “GHSCENE” lights with clear lenses and housings shall be provided at the rear of the apparatus, one (1) on each side under the upper level warning light. The lights shall be activated

when the apparatus is placed in reverse to provide additional lighting, in addition to the back-up lights. An on/off switch for each light shall be located on the cab instrument panel.

Two (2) Federal model “GHSCENE” lights with clear lenses and housings shall be provided. The lights shall be mounted to the rear of the driver and officer doors as high on the cab as possible. The lights shall be activated through the appropriate cab door ajar switch for additional illumination. An on/off switch for each light shall be located on the cab instrument panel.

● **STABILIZER LIGHTING**

Four (4) clear LED lights shall be provided and installed in each stabilizer opening to illuminate the stabilizer and ground surrounding the opening. The lights shall illuminate when any stabilizer is moved from the stored position.

Four (4) red LED lights shall be provided and installed on each stabilizer cover. The lights shall activate when any stabilizer is moved from the stored position.

● **LADDER LIGHTING**

Two (2) 12-volt floodlights shall be mounted at the bottom of the ladder base section, one (1) on each side. They shall be controlled by a switch from the aerial ladder operator’s position.

Two (2) amber LED lights shall be provided and mounted at the ladder tip. The lights shall be mounted on each side of the aerial ladder in cast housing brackets and activated with the aerial master switch.

A lighting system to illuminate the climbing area inside each ladder section shall be provided. The lights shall be controlled by the same switch that activates the ladder base lighting at the aerial ladder operator’s position and the lens shall be blue in color.

EMERGENCY LIGHTING

● **CAB ROOF**

Two (2) 24” Whelen model “FNMINI” Mini Edge Ultra Freedom LED lightbars with clear lenses shall be provided and mounted on the forward portion of the cab at 45 degree angles, one (1) on each side. Each lightbar shall include the following: One (1) forward facing clear LED flashing light, one (1) side facing red LED flashing light, and two (2) corner red LED flashing lights.

Two (2) 24” Whelen model “FNMINI” Mini Edge Ultra Freedom LED lightbars with clear lenses shall be provided and mounted over the rear cab passenger doors, one (1) on each side. Each lightbar shall include the following: One (1) forward facing clear LED flashing light and two (2) corner red LED flashing lights.

● **FRONT ZONE LOWER**

Two (2) Whelen model “60RC6FCR” LED 600 series lightheads and two (2) Whelen model “60R02FRR” LED 600 series lightheads shall be provided and mounted in the same common bezel, one (1) on each side of the cab, above the headlights and below the turn signal indicator light. The Whelen model “60RC6FCR” shall be mounted in the outboard position of the bezel.

- **SIDE ZONE LOWER**

Two (2) Whelen model “60RC6FCR” LED 600 series lightheads shall be provided with bezels and mounted, one (1) on each side of the bumper.

Four (4) Whelen model “60R02FRR” LED 600 series lightheads shall be provided with bezels and mounted, one (1) on each side of the apparatus in the rear wheel well area and on the rear beavertail.

Two (2) Whelen model “50R03ZRR” LED 500 series lightheads shall be provided and mounted, one (1) on each side of the apparatus in the rubrail located under the transverse compartment.

- **REAR ZONE UPPER**

One (1) Whelen model “B6MMRRP” LED B6 series lighthead shall be provided and mounted on the driver’s side of the apparatus as close to the top of the body as possible.

One (1) Whelen model “B6MMARP” LED B6 series lighthead shall be provided and mounted on the officer’s side of the apparatus as close to the top of the body as possible.

- **REAR ZONE LOWER**

Two (2) Whelen model “60R02FRR” LED 600 series lightheads shall be provided and mounted, one (1) on each side of the apparatus in the lower portion of the Whelen model “CAST4V” housing.

AUDIBLE EMERGENCY WARNING DEVICES

- **MECHANICAL SIREN**

A chrome plated and exterior mounted Federal Q2B-P coaster siren shall be provided and mounted on top of the front bumper extension on the driver’s side of the apparatus. An electric siren brake switch shall be provided and installed on the cab instrument panel.

A heavy-duty metal push button switch shall be provided and mounted on the officer’s door within easy reach of the officer to operate the mechanical siren. The switch shall be wired in such a way that it can only activate the mechanical siren when the emergency master switch is in the on position.

- **AIR HORNS**

Dual air horns shall be provided, connected to the apparatus air system. The horns shall be mounted through the front bumper. The front bumper shall have two (2) holes punched in it to accommodate the horns. A pressure protection valve shall be provided to prevent the air brake system from being depleted of air pressure.

A heavy-duty metal push button switch shall be provided and mounted on the officer’s door within easy reach of the officer to operate the air horns.

- **ELECTRONIC SIREN**

One (1) Federal Signal model “PA300-012MSC” solid state electronic siren with attached noise-canceling microphone shall be provided.

The siren shall have the ability to be activated by the horn button in the steering wheel. The driver shall have the option to control the siren or the apparatus air horns from the horn button by means of a selector switch located on the instrument panel.

- **SPEAKER**

One (1) Federal Signal model “BP200-EF” siren speaker shall be provided and recessed in the front bumper.

INTERCOM SYSTEM

- **CAB INTERCOM SYSTEM**

One (1) Firecom model “3010R” intercom base shall be provided in the cab. One (1) model “UH-10S” under the helmet slotted radio transmit headset shall be provided for the driver’s position, one (1) model UH-10 under the helmet radio transmit headset shall be provided for the officer’s position and four (4) model UH-20 under the helmet intercom only headsets shall be provided for each seating position in the rear of the cab. Interior head set plug-in modules and hanger hooks shall be provided for each of the headset locations.

- **INTERCOM INTERFACE**

An analog interface shall be provided for the Firecom Panther Aerial Intercom system. This interface shall allow the Firecom Panther intercom to connect to the cab intercom system. The interface shall also provide full radio communications to the aerial system.

- **AERIAL INTERCOM SYSTEM**

A Firecom Panther Aerial Intercom system shall be provided. The intercom shall include one (1) base unit located at the turntable control console and one (1) remote unit located at the aerial tip.

The base unit shall include a push-to-talk (PTT) button to transmit to the aerial tip and one (1) integrated headset jack. The aerial tip shall be equipped with a hands-free intercom microphone and two (2) integrated headset jacks. Both the base and remote units shall be equipped with weatherproof speakers, volume controls and automatic squelch control.

PAINT

- **PAINT**

The exterior of the apparatus shall be painted Akzo-Nobel FLNA3042 Red. The paint shall be of the highest quality finish for low maintenance, long life, and attractive appearance.

The exterior of the apparatus shall have no mounted components prior to painting to assure full coverage of metal treatments and paint. All vertically or horizontally hinged doors shall be painted separately to assure proper paint coverage of the door jambs and edges.

STRIPING

● REFLECTIVE BAND

The apparatus shall be delivered without a reflective band and pricing for the reflective band should not be included in the bid.

● CHEVRON STRIPING, BUMPER

Chevron striping shall be provided across the front and sides of the bumper. The reflective red/fluorescent yellow material shall form an “A” shape when viewed from the front.

● CHEVRON STRIPING, REAR

Chevron striping shall be provided across the rear of the apparatus. The reflective red/fluorescent yellow material shall form an “A” shape when viewed from the rear.

● CHEVRON STRIPING, CAB DOORS

Chevron striping shall be provided on the interior lower portion of each cab door. The reflective red/fluorescent yellow material shall run from the lower outer corner to the top upper corner of each door, forming an “A” shape when viewed from the rear.

● CHEVRON STRIPING, STABILIZER JACKS

Chevron striping shall be provided on the front and rear portions of the stabilizer jacks that protrude from the side of the apparatus. The reflective red/fluorescent yellow material shall form an “A” shape when viewed from the front or rear.

LETTERING

● LETTERING

The apparatus shall be delivered without lettering and pricing for the lettering should not be included in the bid.

LOOSE EQUIPMENT

● LITTLE GIANT LADDER

One (1) model “17” Little Giant Ladder shall be provided.

● PLASTIC STOKES

One (1) model “JSA-200” one-piece Junkin plastic stokes shall be provided.

● **ALCO-LITE LADDERS**

Two (2) Alco-Lite model “PEL-35” 35’ two-section extension ladders shall be provided.

One (1) Alco-Lite model “PEL-28” 28’ two-section extension ladder shall be provided.

One (1) Alco-Lite model “PRL-20” 20’ roof ladder shall be provided.

One (1) Alco-Lite model “PRL-16” 16’ roof ladder shall be provided.

One (1) Alco-Lite model “PRL-14” 14’ roof ladder shall be provided.

One (1) Alco-Lite model “FL-10” 10’6” folding attic ladder shall be provided.

● **HOOKS**

Two (2) Ziamatic Plasticore model “PCM 12” 12’ hollow fiberglass poles shall be provided with a “Z” hook at one (1) end and a gas shut-off tool at the other.

Two (2) Ziamatic Plasticore model “PCM 8” 8’ hollow fiberglass poles shall be provided with a “Z” hook at one (1) end and a gas shut-off tool at the other.

Three (3) Ziamatic Plasticore model “PCM 6” 6’ hollow fiberglass poles shall be provided with a “Z” hook at one (1) end and a gas shut-off tool at the other.

● **WATERWAY INLET ADAPTOR**

One (1) 4” female NST thread x 5” storz 30 degree elbow adaptor shall be provided with a cap and chain.

HYDRAULIC HOSE REELS (BID AS AN OPTION ONLY)

● **HYDRAULIC HOSE REELS (NEW)**

The purchaser is seeking an option for two (2) Hanney high-pressure electric rewind dual hydraulic hose reels to be provided and mounted as high as possible in the middle of the transverse compartment. The reels shall be supplied with flexible HRT hose for connecting from a purchaser supplied Genesis hydraulic power supply to the reels. The reels shall be wired directly to the truck 12-volt system with guarded finger push button rewinds.

Hanney captive type nylon roller units shall be provided. The roller unit shall be mounted in the specified compartment to permit the HRT hose to feed directly off the reels. One (1) 100’ length of twin hydraulic hose shall be provided with each reel, one (1) set shall be red in color and the other set shall be blue in color.

● **HYDRAULIC HOSE REELS (REMOVE & RE-MOUNT)**

The purchaser is seeking an option for removing two (2) existing Hanney high-pressure electric rewind dual hydraulic hose reels from either Engine 701 or 702 (2005 E-One Custom Rescue Pumpers) and mounting the reels and captive roller units as specified above, in place of purchasing new reels and hoses.

LADDER TIP CONTROLS (BID AS AN OPTION ONLY)

● **LADDER TIP CONTROLS**

The purchaser is seeking an option to have controls placed at the ladder tip to control movement of the ladder.

ELECTRONIC STABILITY CONTROL (BID AS AN OPTION ONLY)

● **ELECTRONIC STABILITY CONTROL**

The purchaser is seeking an option for an electronic stability control system to improve apparatus stability by detecting and minimizing skids.

AUTOMATIC TRACTION CONTROL (BID AS AN OPTION ONLY)

● **AUTOMATIC TRACTION CONTROL**

The purchaser is seeking an option to further improve drive characteristics with automatic traction control to control wheel slip during acceleration.

TRADE IN OPTION (BID AS AN OPTION ONLY)

● **MULTI-PURPOSE VEHICLE**

The purchaser is seeking a trade-in credit against the bid price of the apparatus for one (1) 2003 Ford F-550/Welch multi-purpose vehicle with a 300 gpm portable pump, 225 gallon water tank, and a four (4) bottle cascade system with a Haskel model "AGD-62" booster. As of Monday, February 15, 2010 the vehicle had 6,769.9 miles on it.

The vehicle may be inspected by the bidder at the Burlington Fire Protection District, 6050 Firehouse Drive, Burlington, KY 41005-0479, during normal business hours. The purchaser shall not be required to accept the trade-in credit offered by the bidder. The purchaser reserves the right to award the contract for the apparatus to the successful bidder with or without accepting the trade-in credit.

● **100' AERIAL LADDER APPARATUS**

The purchaser is seeking a trade-in credit against the bid price of the apparatus for one (1) 1992 Seagrave model "LR-56DH" 100' aerial ladder quint with a 1,500 gpm two (2) stage pump and 300 gallon water tank. As of Monday, February 15, 2010 the apparatus had 26,774.0 miles on it.

The apparatus may be inspected by the bidder at the Burlington Fire Protection District, 6050 Firehouse Drive, Burlington, KY 41005-0479, during normal business hours. The purchaser shall not be required to accept the trade-in credit offered by the bidder. The purchaser reserves the right to award the contract for the apparatus to the successful bidder with or without accepting the trade-in credit.

