CITY OF CONCORD
CONCORD, NORTH CAROLINA

FOR

BID# 2295
ONE (1) 55' AERIAL TOWER TRUCK, 4 X 4

FOR

ELECTRIC SYSTEMS DEPARTMENT

ANNOUNCED DATE: TUESDAY, JULY 26, 2016

DUE DATE: WEDNESDAY, AUGUST 17, 2016

TIME: 2:00 PM
IN CONFERENCE ROOM C
ALFRED M. BROWN OPERATIONS CENTER
850 WARREN C. COLEMAN BOULEVARD
CONCORD, NORTH CAROLINA 28025

REQUEST FOR BID

The City of Concord will receive sealed bids on Wednesday, August 17, 2016 at 2:00 PM, in Conference Room C, Alfred M. Brown Operations Center, 850 Warren C. Coleman Boulevard, Concord, North Carolina 28025. Said proposals will be publicly opened and read for:

BID# 2295
ONE (1) 55' AERIAL TOWER TRUCK, 4 X 4

Copies of the specifications if not included in the bid can be obtained by contacting the Purchasing Department, Alfred M. Brown Operations Center, 850 Warren C. Coleman Blvd., P.O. Box 308, Concord, N.C. 28025. Telephone # 704-920-5441, Fax # 704-785-8856.

NC General Statutes, including G.S. §143-129, and the city of Concord, NC General Specifications and Instructions to bidders will govern the RFB and award of the contract.

The City of Concord reserves the right to reject any or all bids.

Sid Talbert
Purchasing Manager
City of Concord, N.C.

In accordance with state law (G.S. 143.129), the award shall be made to the lowest responsible, responsive bidder, taking into consideration quality, performance, the time specified in the bid. Prices should be quoted for each line as well as a price for the total award.

Each bid must be submitted in a sealed envelope, so marked as to indicate its contents when being opened. **All bids should be marked BID #2295 ONE (1) 55' AERIAL TOWER TRUCK, 4 X 4**

An authorized official of the firm must sign the bid.

The vendor will be required to submit a written request for payment. Payment will depend on projected delivery date stated in the bid for items and certified acceptable by Daniel Nuckolls – Fleet Services Director, for City of Concord, P.O. Box 308, Concord, North Carolina 28025. Telephone# 704-920-5431. Questions concerning bid requirements or specifications should be directed to the Purchasing Manager, Alfred M. Brown Operations Center, 850 Warren C. Coleman Boulevard, P.O. Box 308, Concord, NC 28025. Any changes in specifications will be in writing in form of an addendum and furnished to all bidders. Verbal information obtained otherwise will not be considered in the awarding of bids. No changes to specifications will be permitted within (5) days to the bid opening.

Instructions for preparation and submission of a bid/proposal are contained in the attached packet. Please note that specific forms for submission may be required. Any changes to the conditions and specifications must be in the form of a written addendum to be valid; therefore, the Purchasing Department will issue a written addendum to document on all approved changes. Any bid submitted which does not acknowledge the receipt of an issued addendum will not be considered. Bidders should have no contact with elected officials or appointed officials except the Purchasing Manager during the bidding process. Any such contact will subject bidders to immediate disqualification. Questions regarding specifications should be directed to the Purchasing Manager. A bid proposal from your firm will be appreciated.

Bid Proposal

City of Concord
P.O. Box 308
Concord, North Carolina

Gentlemen/Ladies:

The undersigned, as bidder, hereby declares the proposal is made without connection with any other person, company, or parties making a similar bid or proposal, and that it is in all respects fair and in good faith without collusion or fraud. The Bidder has carefully examined the annexed form of the specifications and instructions to the bidder and hereby declares that he will furnish the material called for in a manner prescribed in the specifications and instructions to bidders for the following prices listed.

PRICE _____

DELIVERY DATE_____

COMPANY NAME _____

AUTHORIZED SIGNATURE _____

TYPE NAME AND TITLE _____

FEDERAL ID # _____

NC CONTRACTORS LICENSE # _____

TELEPHONE # _____

Note:
This signature page must be signed for your bid to be valid.

GENERAL SPECIFICATIONS & INSTRUCTIONS TO BIDDERS

Scope

It is the intent of this bid invitation to obtain proposals for supplying the materials, supplies and/or equipment listed on the Proposal Sheet. You are requested to submit your bid on the enclosed Proposal Sheet and return the entire sealed package to Sid Talbert, Purchasing Manager, City of Concord (hereinafter "City"), PO Box 308, Concord, NC 28026-0308 no later than the time specified in the bid advertisement. Bidders will be required to comply with all applicable statutes, regulations, and local ordinances, ect. And those attached to and made a part of the proposal.

Marking of Bid Envelopes

Bids must be contained in a sealed envelope, plainly marked, showing the bid name, bid number, date, time for opening bids and the bidder's name.

Late Bids Not Considered

Bids received after the stipulated bid opening date and time will not be considered.

Compliance With Specifications

Your bid must be in strict compliance with the specifications and offer the same or equal equipment. Exceptions are to be listed separately in a letter that will become a part of your proposal; otherwise, it is fully understood that the equipment offered is exactly as specified. The City reserves the right to allow or disallow minor deviations from the specifications in order to purchase what is best for the City from a standpoint of quality, price and service to be rendered.

Standard Equipment

To protect the interest of the City, the bidder guarantees that the equipment bid is standard equipment with parts regularly used for equipment offered. There must be no parts or attachments substituted or applied contrary to the manufacturer's recommendations and standards unless expressly called for in the specifications.

Warranty

In submitting a bid, the bidder warrants that all goods furnished shall be free from all defects and shall conform in all respects to the Technical Specifications established herein. Unless otherwise specified, all items shall be guaranteed for a minimum of one (1) year against defects in material and workmanship. At any time during that period, if a defect should occur in any item, that item shall be repaired or replaced by the seller at no cost to the buyer except where it can be shown that the defect was caused by misuse. The bidder expressly warrants that all items bid are fit and sufficient for their intended purpose. If the specifications contain a statement of the particular

purpose for which the goods will be used, the goods offered by bidder shall be fit for this purpose.

Shipping

All prices are to be quoted f.o.b. Concord N.C. delivered unless otherwise specified. Risk of loss and/or damage shall be upon the seller until such time as the goods have been physically delivered and accepted by the buyer.

Unit Prices to Prevail

Prices shall be submitted on per unit basis by line item. In the event of a disparity between the unit price and the extended price, the unit price shall prevail.

Bid Price Corrections

All prices and notations shall be written in ink or typed. Changes or corrections made on the bid form must be initialed by the individual signing the bid. No corrections will be permitted once bids have been opened.

Withdrawal of Bids

Bids may be withdrawn at any time prior to the time specified for the bid opening upon written or personal request of the bidder. No bid may be withdrawn for a period of sixty (60) days after the scheduled bid opening time and date. Negligence on the part of the bidder shall not constitute a right to withdraw the bid subsequent to such bid opening.

Use of Brand Names and References

Unless otherwise stated, the use of manufacturer's names and product numbers are for descriptive purposes and establishing general quality levels only. They are not intended to be restrictive. Bidders are required to state exactly what they intend to furnish; otherwise it is fully understood that they shall furnish all items as stated.

Alternate Bids

Bid submitted as alternate which do not meet or exceed the minimum specifications shall be rejected except that minor deviations may be acceptable. The City shall be the sole judge of what is considered a minor deviation.

Time For Delivery

The time for delivery must be stated in calendar days on the Proposal Sheet and may be a factor in making awards, price notwithstanding.

Rejection of Bids

The City reserves the right to reject any and all bids.

Bonds

A 5% bid bond is waived for the purchases of apparatus, supplies, materials or equipment as stated in the cover section. A 100% performance bond is also waived.

Award

Award shall be made to the lowest responsible, responsive bidder, taking into consideration quality, performance, time specified in the bids for the performance of the contract.

Brochures and Literature

The proposal must be accompanied by descriptive literature marked, indicating the exact item(s) bid upon. The term "as specified" will not be acceptable.

Addendums

The City shall not be responsible for any oral instructions made by its employees or officers of the City with regard to bidding instructions, drawings, specifications or contract documents. Any changes to the specifications will be in the form of an Addendum, which will be mailed to all bidders who are listed with the Purchasing Department as having received the invitation or any other bidder who requests an Addendum.

Responsibility of Compliance With Legal Requirements

The bidder's products, service and facilities shall be in full compliance with any and all applicable state, federal, local, environmental and safety laws, regulations, ordinances and standards, or any standard adopted by nationally recognized testing facilities regardless of whether or not they are referred to in the invitation.

Taxes

The City of Concord is subject to 7% N.C. Sales & Use tax. Tax will not be shown on the proposal; however, invoices will indicate all applicable sales tax. The city is exempt from Federal Excise Tax and will provide a Federal Exemption number.

Terms and Conditions

Payment will be made by the City in full for all equipment delivered as soon after complete delivery and receipt of a correct invoice as can be processed in accordance with these specifications.

Any company submitting a "No Bid" response to a bid invitation should clearly mark the outside of the envelope.

Terms and Conditions attached to the bid by the bidder and made a condition of purchase may render the bid non-responsive and may be rejected by the City.

Terms and Conditions included herein are an integral part of the bid document and shall prevail, unless changes or attachments are agreed to and initialed by the City prior to the bid opening.

Introduction in Use of Goods: Demonstration

A demonstration may be required of the goods bid upon. The demonstration shall be at no cost to the City. If the bidder cannot make a demonstration within twenty days of the request, his or her bid may be rejected. Performance of the equipment at the demonstration must be made with the exact equipment offered in the bid and may be completed at the same time as competitive demonstrations.

Trade-ins

Goods listed for trade-in, if any, may be examined after contacting the Purchasing Department. Goods listed for trade-in are represented "as is" and "where is". Such goods will be released to the successful bidder after receipt of the new equipment and in the same condition as when examined, excepting normal wear and tear.

The City reserves the right to retain goods listed as trade-in if it is deemed to be in the best interest to do so.

Training/Safety

When requested or required, a factory-trained representative shall be present at the time of delivery to train City personnel in the use of and/or safety aspect of the equipment or chemical. The factory representative shall effectively train the City personnel in all aspects, including assembly, disassembly, operating procedures, safety and any other training necessary for its safe and effective use. Items received without sufficient training when requested will be set aside and payment withheld until sufficient training can be completed.

Training shall include OSHA related training in the handling of hazardous materials.

MSDS sheets must be sent with each order. Failure to provide MSDS sheets prior to or at the time of delivery will result in withholding payment until such sheets are received.

Service

All vehicles furnished under a bid shall receive without additional cost whatsoever the usual check-up, guarantees and adjustment identical to that which is normally furnished on vehicles sold to the general public.

Manuals

One parts, one service, and one operators manual shall be furnished with each type vehicle delivered if applicable to this bid.

Bankruptcy

Successful bidders shall execute a contract that contains the following language:

If any bankruptcy or insolvency proceedings are commenced against the contractor And are not dismissed within thirty (30) days after service of such proceeding on the Contractor, or if the contractor shall file petition in bankruptcy or for reorganization or To effect a plan or other arrangement with creditors, or be adjudicated bankrupt or make an assignment for the benefit of creditors, or be dissolved or liquidated, or shall Admit in writing its inability to pay its debts generally as they become due, or a receiver, trustee or liquidator of the contractor or of all or substantially all of the property of the contractor is appointed in any proceeding brought by the contractor, or if any such receiver, trustee, or liquidator is appointed in any proceeding against the contractor, and any such receiver, trustee or liquidator is not discharged within (30) days after service of such appointment on the contractor, this agreement shall be null and void.

W-9 Form

Prior to the first payment by the City under any contract awarded to the successful bidder, the successful bidder shall submit a complete and accurate W-9 form to the Purchasing Manager.

Dissolution of Corporate Status

Successful bidders shall execute a contract that contains the following language:

Failure to register the agent of the corporation or other business entity, if any, with the N.C. Secretary of State or voluntary, judicial or administrative dissolution of the corporation or other business entity shall automatically terminate this contract or agreement unless the bidder or contractor notifies the City of Concord in writing within 72 hours of the dissolution or failure to register the agent and makes satisfactory arrangements and/or guarantees with the City Purchasing Officer and City Attorney to fulfill the contractors obligations under the contract or agreement.

It is the intent of the City of Concord to issue purchase orders for the bid items to cover the Fiscal Year July 1, 2016 to June 30, 2017. Quantities are estimates only and the City reserves the right to purchase more or less for the entire fiscal year and extend pricing if mutually agreed upon with the vendor and the City of Concord.

CITY OF CONCORD
BID SPECIFICATIONS, FOR ONE (1) EACH, 55' AERIAL TOWER TRUCK, 4X4

The City of Concord desires to purchase one (1) 55' Aerial Tower Truck, 4x4 for our Electric Department. Bidders are encouraged to thoroughly inspect the specification package, and apply for approved equals in areas of minor discrepancy from their vehicles. Bidders may bid on chassis or body, or on the entire package. Prices for chassis and body must be separate.

Questions about the specifications and request for approved equals must be directed to Daniel Nuckolls, Fleet Services Director, City of Concord, P.O. Box 308, Concord, North Carolina 28026. Questions may be directed by phone to the above at 704-920-5431. All requests for approved equals must be in writing, and received at least ten working days before bid opening. Formal reply will be within three working days, with copies to all bidders.

Delivery of all equipment will be completed within 90 days of contract award unless otherwise noted in the bid package, and a delivery penalty of twenty-five dollars per day per bid section shall apply after that point unless other arrangements are specified in the bid.

Specifications:

The specifications herein describe vehicles that shall be new, with no concealed damages, (unused), 2017 model year production and equivalent in style, quality and appointments to those offered to the state government. The vehicles shall be supplied with all equipment and accessories indicated as standard equipment in the manufacturer's published literature, except for those accessories and equipment where furnishing such would conflict with a specific requirement otherwise called for herein. In such cases the specific requirement herein takes precedence. Optional equipment as necessary to meet the specifications shall also be installed. All such equipment shall be included in the bid price for each line item.

Note that it is possible that an item that is standard for the manufacturer may be listed as an option in this bid. In the cases, in accordance with the above paragraph, it is required that bidder still furnish such standard equipment in the base vehicle price; bidder is not to deduct this equipment from base vehicle offered herein in order to furnish and price it as an option (s). Such standard equipment so deducted from the base vehicle by bidder and priced herein as an option shall still be furnished with the base vehicle at the base vehicle price offered. All such equipment may be checked by the city using the manufacturer's data book or other published literature as necessary.

All parts, accessories, and equipment specified herein are to be manufacturer's original equipment (unless otherwise allowed), and are to be furnished and installed by the manufacturer. Those items furnished by manufacturer but normally shipped loose for dealer installation, such as wheel covers, certain bulbs, antennas, license plate brackets, and certain clock installations, are exempted from the requirement to be manufacturer installed (but they still must be manufacturer furnished).

Any equipment that is vendor-furnished (when allowed in bid) is to be fully compatible with the specific vehicle on which it is furnished. In addition such equipment is to be typical of best industry practices with respect to design, quality, size, color, material, construction, and any other applicable characteristics. Final approval of vendor-furnished equipment is to be by the city, using the above criteria, at the time of delivery or before the vendor orders such equipment, whichever is more appropriate.

Substitutions:

Substitutions and standard equipment changes are not permitted without prior written approval of the Fleet Services Director, City of Concord.

MINIMUM SPECIFICATIONS FOR
2017 MODEL 4X4 CAB & CHASSIS

DESCRIPTION	RESPONSE
Freightliner M2-106 or Kenworth T370	
GVWR: 35,600 lbs.	_____
WHEELBASE/CA: 183" / 108"	_____
(1) Parts Manual	_____
(1) Service Manual	_____
(1) Operator's Manual	_____
(1) Electrical Circuit Diagrams Manual	_____
ENGINE: Cummins ISL 300 HP @ 2000 rpm 860 lb - ft Torque @ 1400 rpm	_____
TRANSMISSION: Automatic (Allison 3500 RDS, 5-Speed) With transynd transmission fluid. With PTO Provision	_____
HOOD: Tilting with Engine Splash Guards Built in Hood	_____
FRONT AXLE: 14,600 lb. Minimum	_____
FRONT SPRINGS: 14,600 lb. Minimum	_____
REAR AXLE: 21,000 lb. Minimum (Single Speed) 5.29 Ratio, to provide Positive Traction Rear End with driver control locking differential.	_____
REAR SPRINGS: 23,000 lb. Minimum	_____
Power Steering	_____
Magnetic Trap Drain Plug	_____
Magnetic Trap Fill Plug	_____

2017 Model Cab & Chassis
Continued

DESCRIPTION	RESPONSE
Shock Absorbers Front	_____
Wheel Seals (Oil Lubricated) Front & Rear (CR)	_____
Dual Air Brake System	_____
FRONT BRAKES: 16.5 x 5 Q + Cast Spider cam	_____
REAR BRAKES: 16.5 x 7 Q + spider cam	_____
Automatic Slack Adjusters Front & Rear	_____
AIR COMPRESSOR: CUMMINS 18.7 CFM	_____
AUTOMATIC MOISTURE EJECTOR: Heated	_____
High back air driver seat with two-man passenger seat With storage compartment	_____
SEAT BELTS: 3 Sets (seat color)	_____
Engine Control remote mounted with ignition switch control	_____
Instrumentation Package	_____
SUNVISOR: Left & Right Sides	_____
GAUGES: Coolant Temp, Fuel, Electric Speedometer, Tachometer, Air Pressure, Oil Pressure	_____
CIGARETTE LIGHTER: Heavy Duty	_____
HORN: Air	_____
TURN SIGNALS: Flush Mounted	_____
Engine Hour Meter	_____
18 "Steering Wheel	_____
WINDSHIELD WIPERS: Two Speed Electric w/Intermittent Washers	_____
MIRRORS: Dual West Coast-Chrome Shell	_____

2017 Model Cab & Chassis
Continued

DESCRIPTION	RESPONSE
CAB: Minimum "Wide – 70" Headroom: Cab Floor to Headliner 56" Minimum	_____
Tilt/Telescopic steering wheel	_____
Circuit Breakers	_____
Air Conditioning	_____
PAINT: Pure White	_____
Cab Clearance Lights	_____
STARTER: 12 Volt	_____
ALTERNATOR: 160AMP	_____
BATTERIES: (3) Maintenance Free 2100 CCA	_____
BATTERY BOX: Metal Cover w/External Jump Start Terminals	_____
RADIO: AM/FM Stereo, With Weather Band	_____
Power Distribution Center	_____
Coolant Recovery Reservoir	_____
EXHAUST SYSTEM: Horizontal Muffler and Tail Pipe to curb side	_____
Backup Alarm	_____
GOVERNOR: Electronic	_____
Multiplex Wiring System	_____
Single Element Air Cleaner	_____
Body Builder Wiring Kit	_____
FUEL PUMP: Electronic	_____

2017 Model Cab & Chassis
Continued

DESCRIPTION	**RESPONSE**
OIL FILTER: one	_____
OIL COOLER: Engine Mounted	_____
Fuel / Water Separator	_____
Air Cleaner Restriction Indicator in Cab	_____
BLOCK HEATER: W/ Weatherproof Plug Built in Cab under FT Bumper Driver's Door 1000 Watt	_____
FRAME: (120,000 PSI)	_____
Factory installed grab handles behind cab door.	_____
All Bolted Frame	_____
RBM: 2,925,000	_____
FUEL TANK: 50 Gal Step Tank, Left Side under driver's door	_____
IGNITION SYSTEM: Engine Shutdown System, Electric - Warning Light & Buzzer, Low Oil Pressure / High Water Temp	_____
Convex Mirrors – 8.5 "	_____
WHEELS:	_____
Front - Steel Disc Wheels must meet axle-rating	_____
Rear - Steel Disc Wheels must meet axle rating	_____
TIRES: Tubeless Radials	_____
Front - Michelin 315/80 R22.5 XZU S	
Rear - Michelin 11R22.5 XDE M/S	_____
STANDARD TRUCK WARRANTY: 24 Months / Unlimited Miles	_____
BID AS OPTIONS	
EXTENDED ENGINE AND ELECTRONICS WARRANTY: 60 Months / 100,000 Miles w/After Treatment	_____
COST:	_____
EXTENDED TRANSMISSION WARRANTY: 5 years	_____
COST:	_____

MINIMUM SPECIFICATIONS FOR
A 55 ' Aerial Tower

It is the intent of the following specifications to set up minimum requirements for a 60-ft. working height, center-mounted over rear axle, insulated articulating aerial tower with single two-man end-mounted rotating basket. <u>These specifications must be considered as minimum requirements.</u> Any reference to a model or brand name is only to denote quality, and does not mean that equal equipment will not be considered. The unit must be tested to meet or exceed applicable ANSI or OSHA specifications, as well as all D.O.T. and FMVSS requirements, and to be mounted on Cab and Chassis with a Wheelbase/CA: 183" / 108".

The bidder shall indicate an appropriate response in every space provided. This may be a "YES", indicating complete compliance with the specifications, and "NO", indicating a complete non-compliance with the specification, or a detailed description of any and all deviations. Failure to respond, or any misrepresentation will be grounds for immediate rejection of your proposal.

GENERAL SPECIFICATIONS	RESPONSE
Height to bottom of basket to be a minimum of 56.5 feet	_____
Working height – 58.4 feet.	_____
Horizontal reach – 42.6 feet	_____
Rated capacity of bucket in all working positions – 700 lbs	_____
Upper boom travel arc – 188 degrees	_____
Lower boom travel arc – 120 degrees	_____
Stored road travel height – 12'6" ft. maximum	_____
Overall length of mounted aerial tower – 32 ft. maximum	_____
Weight of aerial tower and outriggers, not to exceed 5,700 lbs	_____
Upper boom insulation gap – 20'3", minimum	_____

AERIAL TOWER SPECIFICATIONS

RESPONSE

Lower boom insert insulation gap – 18" _____

Rated and tested for Category "C" 46 KV and below per ANSI A92.2 1990. _____

Simplified Compact, Hydraulic Extending Jib, 2000 full drum capacities complete with ½"x 75' load line swivel hook and latch.

_____

OUTRIGGERS

One set of "A" frame type outriggers shall be provided, and shall be constructed of rectangular welded steel tubing and will be mounted integrally with aerial tower pedestal and to a cross beam under the truck frame. To have 18" x 18" Dica pads with storage provided and 18"x18"foot pads welded to the bottom of the outriggers. _____

Outriggers will provide a minimum 12 foot spread at least 8" of penetration. _____

An outrigger boom interlock will be provided which prevents operation of the aerial tower unless the outriggers are properly lowered. _____

Outrigger cylinders will be equipped with pilot check valves to prevent collapse in the event of hydraulic failure. _____

Outrigger controls will be located at back of rear platform, (1) each side of the vehicle. Must be ¼ turn type, and will include shut-off valves for individual operation and an outrigger lowering alarm. _____

PEDESTAL

The pedestal shall be mounted over the chassis rear axle, and it must be structurally Capable of supporting the turntable assembly during aerial tower operation. In addition, the pedestal will house hydraulic system components (i.e., turntable gear box, turntable hydraulic motor). Rotation bearing to be a minimum of 36" _____

TURNTABLE AND ROTATION BEARING

The turntable shall consist of a heavy duty shear ball bearing with upper and lower steel mounting plates and high strength grade 8 bolts to attach the pedestal and turntable.. _____

360-degree continuous unrestricted rotation shall be provided. _____

A check valve must be provided on the rotation motor to prevent free rotation in the event of hydraulic line failure. _____

Shall be constructed of high strength steel and high strength fiberglass. _____

AERIAL TOWER SPECIFICATIONS

LOWER BOOM **RESPONSE**

The lower boom will have a fiberglass insert with a minimum of 18" metal-to-metal separation _____

Boom with 120 degree lower boom articulation to ground access with standard Upper boom rest with a cam type tie down strap. _____

The upper boom lift cylinder shall be supported and housed within the lower boom and will be located below the lower boom insert to facilitate easier access for inspection and maintenance, and to provide for more advantageous weight distribution. _____

UPPER BOOM

Shall be constructed of high strength steel with wound fiberglass boom. _____

The outside of the boom shall have a smooth finish, and be coated with "gel coat" for superior weather ability. _____

All control lines passing through the upper boom will be enclosed in a sealed polyvinyl tube filled with silicone rubber to make the control line bundle into a single unit. _____

The upper boom shall be dielectrically tested and certified for use under 46 KV (OSHA/ANSI A92.2-1990). _____

All control lines passing through the upper boom shall connect to a bracket using Bulkhead fittings. _____

Upper boom net insulation gap 20'3" minimum. _____

LEVELING SYSTEM

Shall be a positive leveling system with a dual set of ¼" aircraft type steel leveling cables and one 3/8" aircraft type steel hold back cable. _____

Leveling system cables will also incorporate ½" diameter insulator rods and a ¾" hold back rod. _____

Leveling cables will traverse a long sheave at the elbow to reduce tension on the leveling system and increase safety factor. _____

The platform leveling sheave will be a 24" half sheave, all cables will be routed through a nylon boom tip cable guide in lieu of small diameter sheaves.

AERIAL TOWER SPECIFICATIONS

RESPONSE

LIFT SYSTEM

Upper boom lift system shall furnish precise upper boom compensation offered by the cable/insulator rod lift system. This compensating design must allow the platform to be able to move upward or downward on a vertical plane without any forward or backward movement on a horizontal plane. _____

Lower boom lift shall be accomplished by a single double-acting cylinder. _____

Both the upper boom and lower boom lift cylinders will be equipped with Counter balance style holding valves to hold the booms in position in the event of hydraulic failure. _____

Lower boom cylinder shall be equipped with an automatic stop valve to prevent over-cradling of boom. _____

PLATFORMS

Totally enclosed all fiberglass platform 24" x 48" x 42" deep, end-mounted with steel insert molded into rear wall of platform for attachment to boom tip shaft. _____

Two eye bolts (for lanyards) shall be provided on the end of the upper boom or on the bucket. _____

The platform shall have an exterior step. The control handle with fiberglass guard will be located on the street side end. _____

Bucket access steps (grip strut type) and handrail at rear of body – curbside. _____

Engine remote start/stop at rear platform _____

The platform lifter provides 24" of vertical platform lift. Hydraulic Platform Tilt Is provided at platform and lower controls. _____

Hydraulic platform 180 degree rotator for end mount platform. _____

CONTROL SYSTEM

The aerial device shall have a remote single stick control at the platform to provide precise, metered control of all functions. Provide power assist control head with pilot controlled valves. Controls are to be self-purging, with reduced pressurization of control head at platform to prevent seal leakage. _____

A safety interlock system will be provided at the platform and lower controls. The Interlock must be activated before any boom movement can be accomplished. The safety interlock at the platform shall be air activated. _____

Tool pressure selector valve – allows for easy installation and removal of hydraulic tools. _____

Hydraulic platform tilt at lower controls. _____

AERIAL TOWER SPECIFICATIONS

RESPONSE

HYDRAULIC SYSTEM

A closed center, pressure-compensated variable volume displacement system shall be utilized. The hydraulic pump shall be an axial piston displacement pump. _____

Hydraulic tank will be a minimum 32-gallon capacity. _____

Hydraulic system operating pressure shall be 3,000 PSI with 10 GPM at 1000 RPM pump delivery. _____

A 200 mesh suction screen filter and a 10 micron (absolute) replaceable cartridge type pressure line filter with visual restriction indicator shall be furnished. _____

An automatic throttle control shall be provided. Must be preset by chassis dealer Prior to delivery _____

Hydraulic rotating bucket 180 degrees. _____

An air activated power take-off with dash-mounted control and warning light to indicate proper engagement shall be provided. _____

Hydraulic tool circuit outlets at bucket level with shut-off valve at basket an Bruning FF370-6FP 3/8" quick couplers _____

Hydraulic tool circuit outlets at base of tower with shut-off valve and Bruning FF370-6FP 3/8" quick couplers _____

Hydraulic tool circuit should be constructed so that it includes port relief to limit pressure to 2250 psi. Standard operation of tools with unit on low speed. Flow available for tools 6-8 GPM. Does not include couplers. Tool return backpressure is < 200 psi. _____

One (1) 70 KV bucket liner _____

One (1) Soft platform cover with tie _____

One (1) tool tray, fiberglass with hooks _____

One (1) impact wrench holder with Stanley impact. _____

AERIAL TOWER SPECIFICATIONS

RESPONSE

One (1) set of 8' non-conductive tool lines complete with all required Bruning quick couplers and fittings, Bruning Model FF370-6FP 3/8" with ½" threads _____

Six (6) sets of Bruning Model FF-370-8FP quick couplers _____

Paint aerial tower one standard color. Pure white, to match cab _____

An automatic throttle control shall be provided. Must be preset with chassis dealer prior to delivery. _____

Provide (1) 2400 watt pure sine wave inverter. To be mounted in the first curb side Bin on an adjustable shelf. One GFCI duplex receptacle to be mounted in cab and one GFCI duplex water proof receptacle to be recessed into tail shelf. Both receptacles to be hard wired with 12 gauge conductor. Indicator light on dash for inverter (on/off). _____

BODY SPECIFICATIONS

BASIC BODY CONSTRUCTION

The entire body shall be constructed of 16-gauge galvanneal steel. Body shall have 6" structural steel cross members. The body doors shall be double paneled and constructed of 20-gauge galvanneal steel. It is to be welded and riveted throughout so to constitute a single unit. All welding shall be accomplished in accordance with good commercial practice, and all welds shall be thoroughly sanded to insure a satisfactory appearance to the finished product.

All sheared edges of the bulkheads and side paneling, including door openings, shall have lapped or rolled edges. The door flanges shall be formed in this way, and not welded to the body structure. The forward portion of all door openings shall have water guards to keep out rainwater while truck is moving forward. The hinge rods shall be of cold-rolled steel, and installed bronze hinge pin fittings at the end of the door opening. All horizontal doors to open 180 degrees with rubber stop bumper, and have built-in water troughs to insure the carrying off of rain or wash water which might get past the drip moldings. All doors shall be provided with flush type door handles, automotive rotary type latches to be riveted in place for easy installation. All locks shall be keyed alike. Exterior paneling of all doors shall be free of excessive waves of welding marks in the metal. Wheel housings to be equipped with rubber federates.

RESPONSE: _____

BODY DIMENSION:

The body shall be approximately 156" long plus a rear platform extension of approximately 24". It shall be approximately 94" overall width, 46" overall height. Side compartment widths to be approximately 18".

RESPONSE: _____

CURBSIDE COMPARTMENTATION:
Full length hot stick shelf in upper portion of body with access door at rear, with part at second compartment 108".

One (1) front vertical compartment 46" high x 24" wide, with five (5) removable "J" hooks.

One (1) body access opening, 24" wide, between front vertical compartments, to include grab handles, and grip strut access steps.

One (1) vertical compartment to be approximately 48" high x 24" wide, and to have three (3) shelves with adjustable dividers between access steps and rear wheels.

One (1) center 60" horizontal compartment over wheels to be ventilated, and have shelf for long tools.

One (1) rear vertical compartment to be approximately 48" high x 24" wide, including shelf extending from horizontal compartment with access door at rear, and adjustable shelf. And to include (5) removable "J" hooks

Removable 2x4 at top of opening of the steps entering the bed of the truck.

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RESPONSE: _____

BODY SPECIFICATIONS

STREETSIDE COMPARTMENTATION

Full length hot stick shelf in upper portion of body with access door at rear, with part at second compartment 108".

One (1) front vertical compartment to be 48" high x 24" wide, with five (5) hooks, adjustable.

One (1) second vertical compartment to be 48" high x 24" wide, with two (2) adjustable shelves with dividers.

One (1) third vertical compartment to be 48" high x 24" wide, including two (2) shelves with dividers, adjustable.

One (1) 60" center horizontal compartment to have (2) stationary shelves equally spaced in lower portion of compartment with adjustable dividers.

One (1) rear compartment to be 48" high x 24" wide, and to include five (5) removable "J" hooks, to be adjusta

RESPONSE: _____

STANDARD BODY SHALL INCLUDE:

24" platform extension at rear of body with 6" tall thru compartments drop down doors both sides.

Diamond safety tread steel floor, 1/8" thick.

Wheel chock holders built into wheel well panels (one each side).

Full length door locking system.

All compartments to have rope led lights mounted around the inside compartments with one master switch mounted in cab.

12volt cigarette style weather tight power receptacle recessed into tail shelf. To be wired with 14 gauge conductors

Heavy-duty front type boom support.

D.O.T. FMVSS lighting package.

4 corner Lighting package (LED)

Tread plate installed on top of body with lapped edges.

Provide 2 x 4 at rear of body to be removable.

Provide 2" flat bar around rear of tail shelf with drain holes.

Mud flaps installed at rear of body.

Fold-down type Safety cone holder, to be mounted on front bumper.

BODY SPECIFICATIONS

Additional storage box that is 80" long, 10" high and 18" wide located on top of curb side bins. The top of the box shall be access from the bed and top shall open from the bed to the curb and have hydraulic stops to allow for ease of opening and holds top open and with chains on both sides to keep the bin from opening too far. This box is to be vented for storage of rubber goods. This box shall have a key lock identical to locks on the bins of this body.

Replaceable automotive door seals. (Stick or glued-on unacceptable).

12" flat bar lip around top of street side compartment with 24" dividers.

Provide six (6) nut and washer rods street side at rear made ½" rod 12" tall.

Material rail bar street side of body with four (4) ½" "J" hooks, adjustable to swivel type. To run full length of body and stop at the pedestal with adjustable hooks to be mounted on a piece of pipe and mounted on top of material rail.

2- Go lights on top of cage (LED).

2-Led spot lights to be mounted in back of bed one on the pedestal looking at the tail shelf the other looking In the bed mounted at the back near the cab with a switch to cut on and off at back of the truck at the tail shelf.

D.O.T. reflector kit.

Ten unit medical kit including supplies and holder. Ship loose.

3" angle iron behind cab 41" high from bed with ½" holes every 6".

Engine remote start/stop at rear tail shelf

RESPONSE: _____

ACCESSORIES

Model T-100A heavy-duty pintle hook, rear cross member, bracing, and safety chain anchors to be flush mounted. On front bumper of truck tow hooks to be mounted to frame on both sides.

EPCO Model 500-PS electronic solid state brake controller

Berg 7-way trailer/rv socket at rear of chassis mounted in cross member.

One pair (2) heavy-duty wheel chocks, rubber type.

Five (5) gallon Gott water cooler, plastic, mounted top curbside compartment at front.

Grounding cable assembly includes 50' of 2/0 cable and grounding clamp with reel permanently attached to rear of body under tail shelf, curbside, three-point ground, chassis, body and tower.

Full cab protector with front boom storage rest installed. Cab guard to be bolted on and removable.

Two LED lights mounted between cab and body with telescopic sticks wired into inverter with individual Switch for each light.

BODY SPECIFICATIONS

Pull out steps with handrail mounted at rear of body, curbside.

Back-up warning device, electric alarm.

Two (2) LED amber strobe emergency warning lights installed with switch mounted on dash. Mount on cab guard front each side with rod type with removable brush guards.

Fire extinguisher, 10 lb. type A, B, C with storage bracket. Mounted street side at front of body.

Ladder storage bracket, flat roller style rack on far crub side, mounted top of cab guard to run full length, 20 " wide with rails and tie-downs.

DESCRIPTION **Non-Compliance**

- Braden is our new standard PD18C
- Powered shaft extension to curbside
- 4-way cable roller guide
- Clutch controls on winch
- Hydraulic control in cab
- Hydraulic system "tie-in" components
- Installed
- Handle control inside cab to be two pieces.
- Primed and painted white _____

250' of ½' IWRC wire rope with eye, PD16A – ¾" quick hook and rubber strap winch line holder.

Paint body and cab protector one color to match cab.

Non-skid black paint to be applied to top of curbside compartment and floor of body load area.

Two (2) rubber dock bumpers.

Custom fabricated heavy duty front bumper with two hooks and tread plate from cab to bumper. To extend 20" from cab to accommodate cone storage and cab guard mounting. Bumper to have storage units in both ends with flip up lids.

Install two (2) Betts Model 305-B-07113 LED Lights, one (1) each side, located front of body

between top of compartment and top of cab

A pre-paint inspection is required, bidder is to provide transportation, meals and if necessary, overnight accommodations for two City employees.
RESPONSE: _____

WARRANTY:

Bidders are required to furnish all warranty information along with the Bids. The warranty coverage will be taken into consideration in the bid analysis.

INSPECTION AND ACCEPTANCE:

A pre-paint inspection is required; bidder is to provide the necessary Transportation, food and lodging accommodations for two City employees.

Complete unit is to be delivered to the City of Concord Alfred M Brown Operation Center.

FIELD DEMONSTRATION:

The purchaser reserves the right to request a demonstrator which is the same model as quoted. This unit will be evaluated to assist in the final bid analysis.

COMPLIANCE WITH SPECIFICATIONS:
Any deviation from these specifications must be explained in full detail, including drawings, and engineering explanations. Exceptions are to be listed separately in a letter which will become a part of your proposal, otherwise it is understood that the equipment offered is exactly as specified.

REQUIREMENTS:

Supplier to furnish copies of each of the following:

1. Final specification records _____
2. Title of origin _____
3. One (1) Service manual _____
4. One (1) Parts manual _____
5. One (1) Operator's manual _____
6. Final front and rear axle weights. _____

Drawings and any related brochures must be provided with bid and must Detail the complete package you propose to bid. _____

PLEASE INDICATE THE FOLLOWING:

1. Nearest Service Center for parts and service to be located within 100 miles of our facility.

City: _____State: _____Miles: _____

2. Enclose copies of all product and service warranties.

3. Weight Distribution Analysis. A complete drawing of cab/chassis and equipment package showing a weight distribution analysis must be provided prior to final award.

4. Bidder will be held responsible to show complete adherence to all applicable DOT and FMVSS standards.

Cab & Chassis Manufacturer_____Model_____Price $_____

Body Manufacturer_____Model_____Price $_____

Delivery_____days

NOTE:
To the successful bidder, no payment will be authorized until completed unit with all paper work in order to tag unit is delivered to the City of Concord Alfred M Brown Operation Center 850 Warren C. Coleman Boulevard Concord, North Carolina.