



CITY OF CONCORD  
CONCORD, NORTH CAROLINA

FOR

**BID# 2266**

**ONE (1) CENTER-MOUNT DERRICK / LINE TRUCK 4 X 2**

FOR

ELECTRIC SYSTEMS DEPARTMENT

ANNOUNCED DATE: WEDNESDAY, AUGUST 26, 2015

DUE DATE: THURSDAY, SEPTEMBER 17, 2015

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 Thursday, September 17, 2015 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# 2266**

#### **ONE (1) CENTER-MOUNT DERRICK / LINE TRUCK 4 X 2**

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 #2266 ONE (1) CENTER-MOUNT DERRICK / LINE TRUCK 4 X 2**

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

*City of Concord North Carolina General Specifications and Instructions to Bidders.*

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.

*City of Concord North Carolina General Specifications and Instructions to Bidders.*

**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.

## *City of Concord North Carolina General Specifications and Instructions to Bidders.*

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**

## *City of Concord North Carolina General Specifications and Instructions to Bidders.*

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.

**CITY OF CONCORD**  
**BID SPECIFICATIONS, FOR ONE (1) EACH, CENTER-MOUNT DERRICK/LINE TRUCK, 4X2**

The City of Concord desires to purchase one (1) Center-mount Derrick/Line Truck, 4X2 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), 2016 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.



**2016 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

\_\_\_\_\_

**2016 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: (2) Maintenance Free 2250 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

\_\_\_\_\_

Exhaust Brake: Cummins integral w/variable geometry turbo and  
on/off dash switch.

\_\_\_\_\_

**2016 Model Cab & Chassis  
Continued**

<b>DESCRIPTION</b>	<b>RESPONSE</b>
OIL FILTER: one	<hr/>
OIL COOLER: Engine Mounted	<hr/>
Fuel / Water Separator	<hr/>
Air Cleaner Restriction Indicator in Cab	<hr/>
BLOCK HEATER: W/ Weatherproof Plug Built in Cab under FT Bumper Driver's Door 1000 Watt	<hr/>
FRAME: (120,000 PSI)	<hr/>
Factory installed grab handles behind cab door.	<hr/>
All Bolted Frame	<hr/>
RBM: 2,925,000	<hr/>
FUEL TANK: 50 Gal Step Tank, Left Side under driver's door	<hr/>
IGNITION SYSTEM: Engine Shutdown System, Electric - Warning Light & Buzzer, Low Oil Pressure / High Water Temp	<hr/>
Convex Mirrors – 8.0 "	<hr/>
WHEELS: Front - Steel Disc Wheels must meet axle-rating Rear - Steel Disc Wheels must meet axle rating	<hr/>
TIRES: Tubeless Radials Front - Michelin 315/80 R22.5 XZU S Rear - Michelin 11R22.5 XZY-3 Mud & Snow	<hr/>
STANDARD TRUCK WARRANTY: 24 Months / Unlimited Miles	<hr/>
BID AS OPTIONS EXTENDED ENGINE WARRANTY: 7 years/150,000 miles	<hr/>
<b>COST:</b>	<hr/>
EXTENDED TRANSMISSION WARRANTY: 5 years	<hr/>
<b>COST:</b>	<hr/>

**MINIMUM SPECIFICATIONS FOR  
CENTER MOUNT DERRICK AND LINE CONSTRUCTION BODY**

It is the intent of the following specifications to set up minimum requirements for a center mounted behind the cab digger derrick with an all steel line body. These specifications must be considered as minimum requirements. Each bid should include a complete description and specifications of equipment you propose to furnish. All bidders must complete the compliance or non-compliance section. If a noncompliance is noted the bidder must reply with a written exception to the specification. Failure to respond or to clearly show all exceptions will be grounds for rejection of your proposal. The finished unit shall meet or exceed current industry and engineering safety standards. This unit to be completely tested and mounted on a cab and chassis with a cab to axle dimension of 120 ". Wheel Base/CA: 188" / 120 ".

**DESCRIPTION** **Compliance  
Non-Compliance**

DERRICK SPECIFICATIONS:

A completely hydraulically actuated boom package. Designed for center mounting directly behind the cab, directly to chassis frame through a full length tubular steel subframe. Completely tested and installed on chassis having a cab to axle dimension of approximately 120 ". \_\_\_\_\_

Detailed specifications of all items included in a standard basic derrick are as follows:

RATED CAPACITIES:

Capacity at 10 ft. radius with all sections retracted including all derrick equipment and accessories shall be 12,300 lbs \_\_\_\_\_

A custom load chart showing actual derrick capacities with all options installed at given radius and degree shall be provided with the derrick at given radius and degree shall be provided with derrick. \_\_\_\_\_

Maximum rated lifting capacity 26,500 lbs. at 80 degrees. \_\_\_\_\_

Bidder to indicate in the proper spaces below the actual boom ratings of this unit with all required options installed

<u>Fully Retracted</u>		<u>2nd Section Extended</u>		<u>2nd &amp; 3<sup>rd</sup> Sections Extended</u>	
Min. sheave height 26 '		Min. sheave height 35 '		Min. sheave height 45 '	
Radius		Radius		Radius	
Ft.	Capacity	Ft.	Capacity	Ft.	Capacity
10	_____	10	_____	10	_____

These capacities are to include digger motor, 18" auger, tilt pole plumber, hydraulic third stage and manual fourth stage and all other related derrick and all accessories.

Derrick must comply with ANSI A10.31-1987 Section Three Load Capacity definition, which takes into consideration completed unit stability for all final readings. \_\_\_\_\_

Load Radius

Minimum 25 ft. with second section extended. \_\_\_\_\_

Minimum 35 ft. with third section extended. \_\_\_\_\_

Minimum 49 ft. with manual fourth section extended. \_\_\_\_\_

Boom Elevation

Shall be from +80 degrees to -20 degrees \_\_\_\_\_

**DERRICK SPECIFICATIONS**  
**continued**

**DESCRIPTION**

**Compliance**  
**Non-Compliance**

Sheave Height

Minimum 35 ft. with second section extended.

\_\_\_\_\_

Minimum 45 ft. with third section extended.

\_\_\_\_\_

Minimum 49 ft. with manual fourth section extended.

\_\_\_\_\_

Digging Radius

Boom at 0-degrees shall be from 15 ft. to 24 ft.

\_\_\_\_\_

Lift Cylinders

Single or dual lift cylinder(s), hydraulic acting, chrome plated rod(s), and equipped with integral holding valves.

\_\_\_\_\_

Derrick Tower

All welded construction of high strength steel with access holes for maintenance of hydraulic plumbing.

\_\_\_\_\_

Turret

Fabricated construction of heavy steel plate. Geometrically designed and structured to provide for maximum strength and lift efficiency.

\_\_\_\_\_

Shall be welded steel fabrication with offset configuration.

\_\_\_\_\_

Self-aligning steel swivel ball bushings utilized in each side plate for mounting the main boom section.

\_\_\_\_\_

Rotation Bearing

A long life "Shear ball" rotation bearing minimum 24" designed for use on digger derricks shall be provided.

\_\_\_\_\_

Rotation Drive

Continuous, heavy-duty worm gear drive with hydraulic overload protection for rotation. Protects rotation system by stopping the function which causes excess side load on rotation system. The system leaves operational those functions necessary to relieve overload condition while holding the load until the situation is corrected.

\_\_\_\_\_

Hydraulic Oil Reservoir

A 50 gallon hydraulic oil reservoir shall be provided and located in the cargo area and include a 100 mesh filter screen, baffles, outlets filter screen, 10 micron cartridge type return line filter, clean-out access hole and dipstick.

\_\_\_\_\_

Hose and Fittings

All hoses to have a 4 - to - 1 bursting factor and to be at least two-wire constructed.

\_\_\_\_\_

**DERRICK SPECIFICATIONS**  
**continued**

**DESCRIPTION**

**Compliance**  
**Non-Compliance**

Boom Assembly

Main fabricated box boom, constructed of high-strength steel designed to store hydraulically extended second boom shall be provided.

\_\_\_\_\_

Second Section

Fabricated box boom, constructed of high-strength steel. Hydraulically extended in and out by a double-acting cylinder. The hydraulic extension cylinder shall be equipped with integral holding valves on both extend and retract ports.

\_\_\_\_\_

Tilt Pole Plumber

A tilt pole plumber, attached at the second stage, shall be provided and installed on the sheave assembly. The pole plumber arms shall be capable of handling poles up to 23 " in diameter. Hydraulic cylinders with holding valves shall operate the tilt and open and close on the pole plumber arms. Pole plumber hoses shall be contained in a chain type carrier including insulated section installed on the side of the boom.

\_\_\_\_\_

Hydraulically Extended Third Section

Filament-wound fiberglass power extended boom shall be provided. The extension shall move in/out on tapered non-metallic rollers. The side of the fiberglass boom to be supported and guided by non-metallic rollers to prevent boom tracking.

\_\_\_\_\_

Manual Fiberglass Extension

Fiberglass manual fourth section extension 48 " long with dielectrical rating to under 46 KV for use with derrick. Fourth section must store inside hydraulic fiberglass third section. Increases total sheave height to 49 ft. Pin on jib is not acceptable.

\_\_\_\_\_

Hydraulic System Pump

A tandem vane type high efficiency 3,000 PSI rated hydraulic pump shall be provided with a total output of 43.5 gallons per minute at 2,000 RPM and 2,500 PSI for use with single-speed hydraulic system.

\_\_\_\_\_

Power Take-Off

Electric/Air shift power take-off with flange mounted pump. Control will be mounted on dash.

\_\_\_\_\_

Winch

Boom tip mounted "pole grabbing" self-locking, high torque worm gear winch equipped with brake. 15,000 lbs. bare drum capacity with provisions for wire rope or synthetic rope shall be provided.

\_\_\_\_\_

50 ft. of 1" Samson "Spectron II rope eye for winch. (50,000 lbs. breaking strength).

\_\_\_\_\_

Three (3) wide mouth quick hooks.

\_\_\_\_\_

**DERRICK SPECIFICATIONS**  
**continued**

**DESCRIPTION**

**Compliance**  
**Non-Compliance**

Two (2) 4 ft. x 1/2" wire sling with small eye on each end to be used with Quick hooks.

\_\_\_\_\_

Derrick Controls

Tower mounted handle rack installed integral to the tower. All functions are controlled from either end of handle rack in sequential format. Full pressure stacked valves to be used. Dual foot throttle to be included, hydraulic operated to control engine RPM. All control handles to have permanent decals indicating control functions. Height of control handle to be 3 foot 6 inches from floor to top of handles. Refer to attachment 1.1 for control handle layout.

\_\_\_\_\_

Three position engine remote start-run-stop switch installed at center location of control station. Switch shall be weatherproofed with a rubber marine type cover.

\_\_\_\_\_

2 glycerin filled pressure gauge shall be provided to monitor system pressures.

\_\_\_\_\_

Hydraulic auger release at tower controls each side.

\_\_\_\_\_

Auxiliary hydraulic tool outlets at ground plumbed to retractable hydraulic hose reel installed on rear of body mounted under rear platform between frame rails and is to be enclosed with removable cover for maintenance including two (2) 60 ' lengths of 1/2 " hydraulic hose with hose stops.

\_\_\_\_\_

Hydraulic tool circuit should be constructed so that it includes port relief's to limit pressure to 2000 psi. Standard operation of tools with unit on low speed. Flow available for tools 6-8 GPM. Does not include couplers. Tool return back pressure is < 200 psi.

\_\_\_\_\_

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

\_\_\_\_\_

Hydraulic Digger

An 8,000 ft./lb. single-speed digger planetary gear drive powered by reversible hydraulic motor shall be provided and include the following: 60 " long x 2 1/2 " hex auger shaft with auger adjustment holes, auger storage bracket with self-latching auger catch, hydraulically activated auger release, safety pin, auger roll-up cable, and telescopic trombone tubes shall provide oil to the digger motor supported with non-metallic bearings. Digger hanger box shall be box section and equipped with automatic pickup and transfer protection system.

\_\_\_\_\_

Auger

A Medium Duty 18 " auger body, add 18" txc auger head, add 18" BTA auger head with 7 ft. stem and 5 ft. of flighting, equipped with (2-1/2 "hex) carbide teeth and P-1650 point with carbide teeth, shall be provided, equipped with cable storage strap.

\_\_\_\_\_

One (1) 12" auger (2-1/2 "hex), with carbide teeth and P-1650 point with carbide teeth.

\_\_\_\_\_

Torque Limiter

Hydraulically operated, installed on digger storage bracket for protection of digger and auger when storing.

\_\_\_\_\_

**DERRICK SPECIFICATIONS**  
**continued**

**DESCRIPTION**

**Compliance**  
**Non-Compliance**

A 2-1/2 " gate valve shall be provided for oil shut-off during maintenance.

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Boom Rest Assembly

A heavy-duty swing-out boom rest assembly shall be provided. Boom storage support to be protected with a down pressure relief system.

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Stabilizers

One set of hydraulic double-acting full A-frame primary outriggers shall be provided with 13.1 ft. of spread and 1.1 ft. of penetration. Outrigger pads shall be 18 " x 18 " x 5/8 ". Controls shall be mounted at main tower rack handle controls on the left and right outside ends to provide operator viewing when lowering outriggers.

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Auxiliary dual vertical outriggers installed in rear vertical compartment. 6 " of penetration based on 39 " chassis frame height. Controls shall be mounted next to the front outrigger controls. 18 " x 18 " x 5/8 " pads.

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Double pilot operated internal holding valves shall be provided for outriggers.

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Furnish and install alarm system activated when vehicle is in reverse or when outriggers are being operated. Alarm to be Acorn beeper type 90d-12 volt and installed in rear light bar.

\_\_\_\_\_

Full Subframe

Subframe shall be constructed of 6" x 6" tube rails with 3/8 " top and bottom plates. Tie-down bolts must be in shear. No welding to chassis frame rails.

\_\_\_\_\_

Body

The entire body shall be constructed of 16 and 18 gauge cold rolled galvanized steel. It is to be welded and riveted throughout so as 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. Basic body shall be in prime paint.

\_\_\_\_\_

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 rain water while truck is moving forward. The hinge rods shall be of cold rolled steel and installed in cast steel or bronze hinge pin fittings at the end of the door opening. All horizontal doors to open 180 degrees with rubber stop bumpers 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, slam-action double catches, and cylinder locks riveted in place for easy installation. All locks shall be keyed alike. Exterior paneling of all doors shall be free of excessive waves or welding marked in the metal. Wheelhousing to be equipped with rubber fenderettes. All doors to have automotive rotater type latches. Lights in each compartment with master switch in cab. Lights mounted in bin door with rubber grummets (Peterson Light), horizontal bins to have 5" doom light mounted top of compartment (Peterson Light)

\_\_\_\_\_

**DERRICK SPECIFICATIONS**  
**continued**

**BODY SPECIFICATIONS**

**Compliance**  
**Non-Compliance**

**DESCRIPTION**

Body Dimension

The body shall be approximately 168 " long plus a rear platform extension of approximately 24 ". It shall be approximately 92 " overall width, 47 " overall height at front of body, and 44 " overall height at rear of body. Side compartment widths to be approximately 18".

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All shelves to be 18 gauge galvaneal steel. All body interiors are to be painted gray with speckled paint.

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Curbside Compartmentation

Full length shelf in upper portion of body with access door at rear - corrugated fiberglass in bottom.

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Front vertical compartment shall be 47 " high x 27 " wide with five (5) " J " hooks.

\_\_\_\_\_

Second vertical compartment shall be approximately 47 " high x 27 " wide and shall have three (3) adjustable shelves with adjustable dividers.

\_\_\_\_\_

Third vertical compartment to be approximately 47 " high x 25 " wide and have three (3) adjustable shelves with adjustable dividers.

\_\_\_\_\_

Center horizontal compartment, over rear wheels, to be approximately 60 " long x 17 " high and inside shall be open. One shelf with adjustable dividers.

\_\_\_\_\_

Rear vertical compartment to be approximately 47 " high x 25 " wide with two (2) material hooks and water cask stand with drain.

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Streetside Compartmentation

Full length shelf in upper portion of body with access door at rear corrugated fiberglass in bottom.

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First vertical compartment to be 47 " high x 27 " wide with five (5) " J " hooks.

\_\_\_\_\_

Second vertical compartment to be 47 " high x 27 " wide with three (3) adjustable shelves with adjustable dividers.

\_\_\_\_\_

Third vertical compartment to be 47 " high x 25 " wide including three (3) adjustable shelves with adjustable dividers.

\_\_\_\_\_

Center horizontal compartment to be approximately 60 " long x 17 " high and have cross-arm bolt tray in bottom portion.

\_\_\_\_\_

Rear vertical compartment to be 47 " high x 25 " wide and to include five (5) " J " hooks and two (2) eye nuts mounted on the door itself (at the top).

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Compartmentation Accessories

Install replaceable automotive type door seals (stick-on not acceptable).

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Two (2) 6 " flat bars 11 " apart full length of body, curbside, starting at outside edge of body. Also divide every 24 ".

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**DERRICK SPECIFICATIONS**  
**continued**

**BODY SPECIFICATIONS**

**DESCRIPTION**

**Compliance**  
**Non-Compliance**

Compartmentation Accessories (continued)

Vertical ladder storage rack on top of curbside compartment under pole carrying rack with guide rails, roller at rear and a keeper chain at rear.

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Combination storage rack include Pike pole storage with tie-down strap, digging bar tray and long tool storage, streetside under pole rack. On top of pike pole storage add 3" flat bar opposite side from bed storage side, enclosed front and back to make second long tool storage.

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Material Rack

Eight (8) 5 " swivel type material hooks, equally spaced and installed with 3 " steel channel even with top of storage rack on inside of streetside compartment, reinforced with angle.

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Eight (8) 5 " swivel type material hooks same as above on curbside (same height).

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Platform Extension

A 24 " platform extension shall be installed. Through compartment in rear platform extension. Platform extension to have recessed doors of 1/8 " diamond treadplate with automotive rotater type latches on each side. Dovetail for departure angle. Compartment to store tamp (notch curbside top of compartment so tamp can be stored without disconnecting.

\_\_\_\_\_

4 " high flat bar on top of extension on streetside (outside compartment) and on curbside (inside compartment) with slot to hold 2 x 4 lumber across rear (furnish 2 x 4 ).

\_\_\_\_\_

Diamond safety treadplate steel floor, 1/8 " thick. All walking surfaces to be painted with non-skid.

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Six (6) nut and washer rods spaced approximately 5 " apart on streetside .

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A light bar will be included in the body extension. All required lights for the back of the truck will be mounted in the bar.

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ICC clearance lights and reflectors to meet North Carolina and Federal Safety specifications, FMVSS 108 lighting package. All required lights will be push-out type Peterson brand or equivalent.

\_\_\_\_\_

All body ICC push-out light will be wired with a plugin wiring harness or equivalent wiring harness which will accommodate Peterson brand push-out shockproof lights. Connections for the 7-way trailer/rv type socket will be included in the same assembly. All harness wires will be assembled, connected and protected by full length looming. Harness assembly will be protected as necessary to prevent any damage from tool storage or work at rear of body.

\_\_\_\_\_

**DERRICK SPECIFICATIONS**  
**continued**

**BODY SPECIFICATIONS**

<b>DESCRIPTION</b>	<b><u>Compliance</u></b> <b><u>Non-Compliance</u></b>
Full length locking bar system to lock all doors.	<hr/>
Treadplate installed on top of body with lapped edges.	<hr/>
Mud flaps installed at rear of wheelhousing opening.	<hr/>
Paint Body one color - Pure White	<hr/>
<u>Accessories</u>	
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). Two halogen lights mounted inside bed near cab and body with telescopic sticks wired into inverter with individual Switch for each light.	<hr/>
Pintle hook, Holland Model T-100 with chassis reinforcements including two (2) 3/4 " steel eye connectors for trailer safety chains. Mounted approximately 30 " from the ground.	<hr/>
Pipe vise support installed on top of curbside rear platform extension, removable type, with Walton Vice 655 .	<hr/>
Combination walk-thru operator's platform and cross tunnel storage compartment with access steps. Compartment is 92 " long, 18 " high, and 12 " wide with access door on each side of truck. All doors have flush type door handles, with automotive rotater type latches, and cylinder locks keyed alike. Door size is 17 " high x 12 " wide, and compartment interior provides two (1) shelve horizontal splicing the compartment in half to carry augar with augar storage latch running full 92 " length. Entire exterior of compartment, including access steps, is constructed of heavy gauge diamond plate steel.	<hr/>
Wheel chock holders built into wheelwell panel on streetside and curbside for two (2) chocks below horizontal compartment.	<hr/>
Wire reel storage mounted on boom support with 2 " spindle bar for 48 " reel.	<hr/>
Provide latches on top to hold 2" spindle bar in place.	<hr/>
Install stirrup steps with grab handles at rear of body, cable-type. Steps with 6 " Grip-strut.	<hr/>
Grounding cable assembly includes 50 ft. 2/0 cable with bracket permanently attached, and "C" type grounding clamps. Cable attached on front winch assembly. Grounding to be three places, aerial tower, body and chassis, all tied into one.	<hr/>
Storage for CR reel on front of tower base in body load area.	<hr/>
Safety cones to be stored on bracket mounted on front winch extension area. Cone holder will be fold-down type.	<hr/>
Provide EPCO 500-PS electronic solid state brake controller for air brake equipped chassis.	<hr/>

**DERRICK SPECIFICATIONS**  
**continued**

**BODY SPECIFICATIONS**

**Compliance**  
**Non-Compliance**

**DESCRIPTION**

Provide a Berg 7-way trailer/rv socket at rear of chassis mounted in crossmember.

\_\_\_\_\_

Centralized Switch Panel

The centralized electrical switch panel is installed in the cab providing easy access and clear visibility from the driver's seat. The panel is equipped with rocker switches, illuminated function indicators and plaques. All warning lights flash for clear distinction. A test feature is provided to ensure the warning lights are operable.

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The sealed automotive plug-in connectors are made with a thermoplastic housing and silicon seals to withstand conditions of extreme temperatures (-55 degrees to +125 degrees Celsius). The connectors utilize a double positive lock and keeper system to ensure a reliable contact retention system.

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All wires connecting to the chassis systems utilize a compatible connection to ensure consistency with the chassis electrical system.

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The wiring harness employs a standardized color-coding system

\_\_\_\_\_

Provide a complete Electrical wiring diagram.

\_\_\_\_\_

One (1) Stanley ID04810 wrench with 7/16" quick change hex and 1/2" square drive adapter and open and closed center. 8' or twin non conductive hose with ff-370 quick couplers.

\_\_\_\_\_

Burndy PatriotPatcut245-LI 18VOLT Lithium-Ion Battery Actuated Cutter

\_\_\_\_\_

One Stanley Model TA-54 handle with kidney foot.

\_\_\_\_\_

Cembre HT 131-C crimping tool with case and dies.

\_\_\_\_\_

Cembre HT-TCO50 cutting tool

\_\_\_\_\_

DP front bumper package 20,000 lbs.

- 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 1/2' IWRC wire rope with eye, PD16A - 3/4" quick hook and rubber strap winch line holder.

\_\_\_\_\_

Paint winch and assembly Pure White.

\_\_\_\_\_

Provide fire extinguisher, 10 lb. type B & C with storage bracket. Locate in curbside rear bid.

\_\_\_\_\_

Provide D.O.T. triangle type road reflector kit mounted in cab.

\_\_\_\_\_

**DERRICK SPECIFICATIONS**  
**continued**

**BODY SPECIFICATIONS**

**DESCRIPTION**

**Compliance**  
**Non-Compliance**

10-Unit medical kit with storage bracket - shipped loose, with door marking decal.

\_\_\_\_\_

Install Hide away strobes warning light system.

\_\_\_\_\_

Two (2) spotlights, one (1) each side in cab post.

\_\_\_\_\_

Install pole racks with winch and binder for carrying two (2) poles. Install over top of left and right compartment sides. Front section of pole racks to pull up and hinge down toward the rear of the truck. Total of four (4) cable binders.

\_\_\_\_\_

Install two (2) amber strobes, one (1) each side over cab mounted on walk-thru compartment, with brush guards.

\_\_\_\_\_

Outrigger storage under body between cab and wheel housing. Two (2) underbody outrigger pad storage racks. One (1) each side with 6 " underbody outrigger pad storage rack height, 30" deep 48"wide.

\_\_\_\_\_

One (1) pole jack with detachable base, with 7 ft. alloy steel chain.

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Install pole jack storage streetside at rear under tail shelf.

\_\_\_\_\_

Install two (2) Betts Model 305-B-07113 lights, one (1) each side located behind boom controls.

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Install 4 Transformer tie-off rings located at pre-paint.

\_\_\_\_\_

5 - gallon water cooler with bracket located and mounted in curbside rear bin with drain hole in bin.

\_\_\_\_\_

Supply ground wire reel rack located at prepaint.

\_\_\_\_\_

Two wheel chocks - rubber.

\_\_\_\_\_

D.O.T. FMVSS lighting package.

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**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.

\_\_\_\_\_

Upon delivery and prior to acceptance, the successful bidder must provide any necessary technical training in operation and maintenance.

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Complete unit is to be delivered to the to the City of Operation Center.

\_\_\_\_\_

**DERRICK SPECIFICATIONS**  
**continued**

**BODY SPECIFICATIONS**

**DESCRIPTION**

**Compliance**  
**Non-Compliance**

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.

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Compliance with Specifications

Any deviation from these specifications must be explained in full detail, including drawings, and engineering explanation. 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.

\_\_\_\_\_

Use of Other Names and References

Unless otherwise stated, the use of manufacturer's name 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.

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Drawings to be provided with Bid, detailing the complete package you propose to Bid.

\_\_\_\_\_

Bidder to supply temporary tag for truck until permaninaint tag can be Obtained.

\_\_\_\_\_

Supplier to furnish copies of each of the following:

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

\_\_\_\_\_

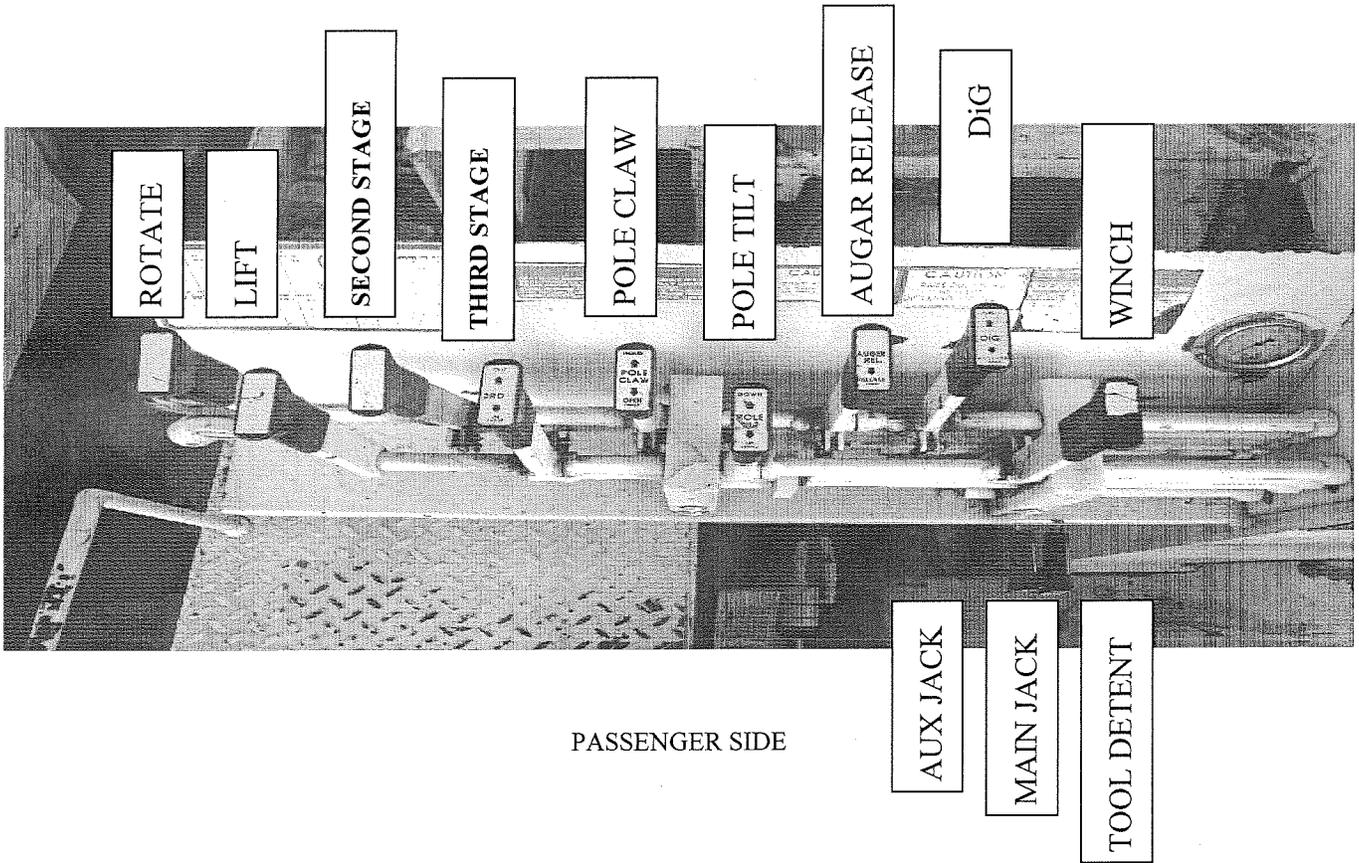
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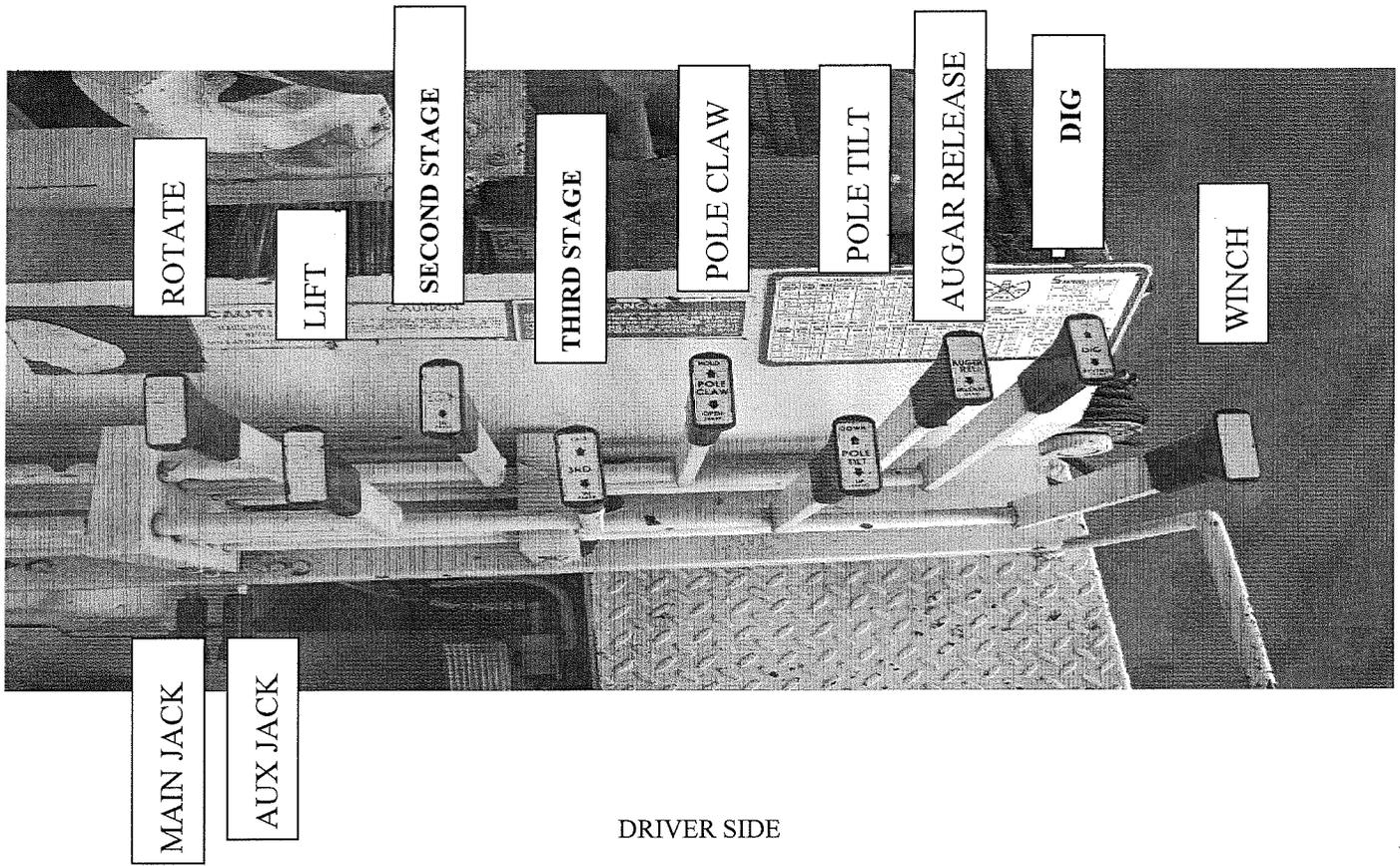
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DRIVER SIDE

**PRICING AND DELIVERY**

**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 \$ \_\_\_\_\_

**Total Cost (includes extended warranties):** \_\_\_\_\_

**Delivery:** \_\_\_\_\_ **days**