



## INVITATION FOR SEALED BID

**BID 00-345**

Description: BUCKET TRUCK(S)  
Department: CITY OF TULSA

NIGP Commodity Code(s):070-53-00-000-0  
Total pages including this page is 31

**FAXING OF BID WILL NOT BE ACCEPTED**

**Important Instruction - Read Carefully:**

If you have obtained these bid specifications from either of:  
City of Tulsa's Fax-on-Demand (918-596-1171) or  
City of Tulsa's Website : [www.cityoftulsapurchasing.org](http://www.cityoftulsapurchasing.org)

you must notify the buyer **EARNIE SUMERALL** of your intent to bid by e-mail [esumerall@ci.tulsa.ok.us](mailto:esumerall@ci.tulsa.ok.us) in order to receive addenda. The buyer will always acknowledge your e-mail for your records. All addenda will be posted on fax-on-demand and the website.

**TABLE OF CONTENTS**

**Pay special attention to those pages with a reference to the following notes:**

**Note #1: Signature of authorized agent required**

**Note #2: Signature of an authorized agent and notarized required**

Table of Contents		2
Invitation for Sealed Bid	( Note #1 )	3
General Terms and Conditions		4
Interest Affidavit	( Note #2 )	5
Bidder Affidavit	( Note #2 )	6
Contractor Information Sheet		7
Summary Price Sheet		8

**Your bid response should follow the same format listed above plus any additional format requested in the body of the bid invitation.**

**INVITATION FOR SEALED BIDS  
TO  
City of Tulsa**

200 CIVIC CENTER, ROOM 109, TULSA, OKLAHOMA 74103

Bid number and date of bid opening must appear on the lower  
left outside corner of bid envelopes and all related containers.

**DATE OF OPENING: MARCH 15, 2001**

**BID NUMBER: 00-345**

**BID MUST BE IN THE CITY CLERK'S OFFICE AT THE ABOVE ADDRESS BY 5:00 P.M. THE DAY PRECEDING THE "DATE OF OPENING" SHOWN ABOVE.**

**BIDS WILL BE OPENED AT 8:30 A.M. IN THE CITY COUNCIL ROOM ON THE DAY SPECIFIED UNDER "DATE OF OPENING."**

PUBLISHED IN THE TULSA DAILY COMMERCE AND LEGAL NEWS: FEBRUARY 26,27,28, MARCH 1,2, .2001

Bid must be accompanied by bidder's bond, cashier's check or certified check in the amount of: **NOT REQUIRED**

PLEASE READ TERMS AND CONDITIONS ON THE NEXT PAGE BEFORE COMPLETING BID DOCUMENTS

\*\*\*\*\* **THE FOLLOWING SECTION MUST BE COMPLETED BY BIDDER** \*\*\*\*\*

Delivery will be made in not more than \_\_\_\_\_ days after receipt of order.

Payment terms \_\_\_\_\_ % \_\_\_\_\_ days.

City of Tulsa may increase quantity of order at the unit price bid for \_\_\_\_\_ days. (Bidder to Specify Days) I have examined the terms and specifications and the instructions to bidders herein and agree, provided I am awarded a contract, to provide the above described items for the sum shown in accordance with the terms and specifications stated herein. All deviations are in writing and attached hereto.

Enclosed is a  BID BOND ;  CASHIER'S CHECK;  Certified Check in the amount of \$ \_\_\_\_\_, which I agree the City of Tulsa may retain as liquidated damages in the event of my failure to comply with the terms of this bid.

**MUST BE SIGNED BY AUTHORIZED AGENT TO BE VALID**

FIRM NAME \_\_\_\_\_ by \_\_\_\_\_

STREET \_\_\_\_\_ TITLE \_\_\_\_\_

CITY STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_ PHONE NUMBER \_\_\_\_\_ DATE \_\_\_\_\_

## GENERAL TERMS AND CONDITIONS OF SEALED BIDS

THESE ITEMS APPLY TO AND BECOME A PART OF THE BID.

### NO EXCEPTIONS TO THESE TERMS & CONDITIONS WILL BE CONSIDERED.

1. **BIDS MUST BE SUBMITTED ON THIS FORM ONLY INCLUDING A SIGNATURE OF AN AUTHORIZED AGENT.** Each bid shall be placed in a separate envelope. Be sure envelope is completely and properly identified and sealed, showing the bid number and date in the lower left hand corner. Bids must be time stamped in the office of the City Clerk by 5:00 P.M. on the day before date of opening.
2. No bidder may withdraw his proposal for a period of thirty (30) days after the date and hour set for the opening of bids.
3. All prices shall be quoted F.O.B. Tulsa, Oklahoma, and delivery to City of Tulsa location shall be without additional charge.
4. The bidder shall attach the manufacturer's name of the equipment or material to be furnished, type, model numbers, manufacturer's descriptive bulletins and specifications. All guarantees and warranties should be clearly stated. This data shall be in sufficient detail to describe accurately the equipment or material to be furnished. Manufacturer's specifications, in respect to the successful bidder, shall be considered as part of his contract with the City of Tulsa.
5. The bidder shall show in the proposal both the unit prices and total amount, where required, of each item listed. In the event of error or discrepancy in the mathematics, the unit prices shall prevail.
6. Any exceptions or deviations from written specifications shall be shown in writing and attached to the bid form.
7. Each bidder agrees to comply with the terms of Title 5, Chapter 1, of Tulsa, Oklahoma Charter and revised ordinances relating to equal employment opportunity.
8. **THE ENCLOSED FORMS REGARDING NON-COLLUSION AND FINANCIAL INTEREST MUST BE SIGNED, NOTARIZED, AND RETURNED WITH THE BID.**
9. The City of Tulsa reserves the right to reject any and all bids, to waive any technicalities in the bidding, and to award each item to different bidders or all items to a single bidder.
10. All bids must be accompanied by bidders bond, cash, certified or cashier's check in the amount shown on the face of the bid form. This amount shall be retained by the City of Tulsa as liquidated damages in the event the successful bidder (or bidders) fails to execute a contract, if required. The bidder agrees that said amount is presumed to be the damages sustained by the City due to the impracticability and extreme difficulty in fixing the actual damages. The office of the City Clerk will return the bid deposits to the unsuccessful bidders, after a contract has been awarded or all bids have been rejected.
11. In the event cash discounts are offered by the bidder, the discount date shall begin with the date of invoice, the date of receipt of all material covered by the purchase order, or the date of receipt by the City of Tulsa of the original copy of the purchase order with properly executed Affidavit of Claimant, whichever is the later date.
12. Direct purchase of certain items of equipment or material by the City of Tulsa are exempt from Federal Excise Tax and Oklahoma Sales Tax. In such cases the bidder shall quote prices which do not include Federal Excise Tax and Oklahoma Sales Tax. The City of Tulsa will furnish executed exemption certificates upon presentation by the bidder at the time of purchase.
13. Bid must show number of days required for delivery under normal conditions. Failure to state delivery time obligates bidder to complete delivery in fourteen (14) calendar days. Unrealistically short or long delivery promises may cause bid to be disregarded. Contractor must keep Purchasing Department advised at all times of status of order. Default in promised delivery or failure to meet specifications authorizes the Purchasing Agent to purchase supplies elsewhere and charge full increase of cost and handling to defaulting contractor. Consistent failure to meet delivery promises without valid reason may cause removal from bid list.
14. Bidder agrees to defend and save City of Tulsa from and against all demands, claims, suits, costs, expenses, damages and judgments based upon infringement of any patent relating to goods specified in this order or the ordinary use or operation of such goods by City or use or operation of such goods in accordance with bidders direction.
15. If the bid requires a written contract, the successful bidder shall execute a written contract with the City of Tulsa and return the required bonds and insurance certificates within ten (10) days after submission of contracts to said bidder by the City.



# BIDDER AFFIDAVIT - TITLE 74 O.S. (1974 SUPP.) 85.22-85.25

STATE OF \_\_\_\_\_ COUNTY OF \_\_\_\_\_

\_\_\_\_\_, of lawful age, being first duly sworn on oath says

**Authorized Agent**

1. (s)he is the duly authorized agent of \_\_\_\_\_, the bidder submitting the competitive bid which is attached to this statement, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and municipal officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached.
2. (s)he is fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bid; and
3. neither the bidder nor anyone subject to the bidder's direction or control has been a party;
  - a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding,
  - b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, nor
  - c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract.

\_\_\_\_\_  
SIGNATURE OF AUTHORIZED AGENT

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_\_.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
MY COMMISSION EXPIRES

**The Bidder Affidavit must be completed, signed by an authorized agent, and notarized.**

# CONTRACTOR/BIDDER INFORMATION SHEET

To be completed by all Bidders  
For Contracts with the City of Tulsa  
(Please print or type)

Project No. or Description \_\_\_\_\_  
\_\_\_\_\_

Full Name of Bidder \_\_\_\_\_

Legal Identity  
(Corporation, Partnership,  
Individual, etc.) \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Telephone No. \_\_\_\_\_

FAX No. \_\_\_\_\_

Taxpayer Identification Number \_\_\_\_\_

Contact Person \_\_\_\_\_

Phone No. \_\_\_\_\_

Fax No. \_\_\_\_\_

E-mail address \_\_\_\_\_

Webpage Address \_\_\_\_\_

## Price Sheet Summary

---

Vendor Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

---

**You will be able to obtain a copy of the Bid Summary on the City of Tulsa's Purchase-Net Fax-on-Demand and Website shortly after bid opening.**

**BIDDER AGREES TO FURNISH ONE (1) OR MORE BUCKET TRUCK(S) IN ACCORDANCE WITH THE MINIMUM SPECIFICATIONS AT THE UNIT PRICE SHOWN:**

\$ \_\_\_\_\_ EACH

**MAKE AND MODEL:** \_\_\_\_\_

## **BID 00-345**

# **BUCKET TRUCK(S) FOR THE CITY OF TULSA**

### **INTENT**

THE INTENT OF THESE SPECIFICATIONS IS TO SET MINIMUM REQUIREMENTS, NOT TO OTHERWISE LIMIT BIDDING FOR THE SUPPLY OF **ONE (1) OR MORE BUCKET TRUCK(S) FOR THE CITY OF TULSA.**

### **WARRANTY**

THE MANUFACTURER SHALL WARRANT EACH VEHICLE TO BE OF GOOD MATERIAL AND WORKMANSHIP AND AGREES TO PROMPTLY REPLACE ANY PART OR PARTS, WHEN THE VEHICLE IS RETURNED TO THE PLACE OF BUSINESS, WHICH BY REASON OF DEFECTIVE MATERIALS OR WORKMANSHIP SHALL FAIL UNDER NORMAL USE, FREE OF NEGLIGENCE OR ACCIDENT, FOR A MINIMUM PERIOD OF ONE (1) YEAR OR 12,000 MILES, WHICHEVER OCCURS FIRST FROM THE DATE OF DELIVERY. SUCH REPLACEMENT MUST BE FREE OF ANY CHARGE TO THE OWNER. IN ADDITION, IF SUCH FAILURES TAKES PLACE OUTSIDE THE DEALER'S SERVICE AREA, THE VENDOR SHALL BE RESPONSIBLE FOR REIMBURSING THE NEAREST AUTHORIZED DEALER FOR SERVICES RENDERED UNDER THIS WARRANTY.

TIRES AND DEALER ADD-ON ITEMS ARE EXEMPTED FROM THIS WARRANTY, BUT MUST BE COVERED BY THE MANUFACTURER'S STANDARD WARRANTY AND SERVICED BY THE LOCAL AUTHORIZED DEALER FOR SERVICES RENDERED UNDER THIS WARRANTY.

STANDARD WARRANTY INFORMATION IS TO BE SUPPLIED WITH YOUR BID.

THE CITY OF TULSA SHALL EXPECT THE MANUFACTURER TO HAVE AN ADEQUATE STOCK OF REPLACEMENT PARTS AVAILABLE TO SERVICE CITY VEHICLES AND TO MAKE DELIVERY WITHIN A REASONABLE TIME OF ALL NORMAL REPLACEMENT PARTS TO THEIR DEALERS WHO SERVICE THE CITY VEHICLES. THE CITY FURTHER EXPECTS THAT WARRANTY SERVICE AND REPAIRS AS WELL AS NON-WARRANTY SERVICE AND REPAIRS WILL BE HANDLED WITHOUT PREJUDICE BY LOCAL DEALERSHIPS THROUGHOUT THE UNITED STATES.

### **METHODS OF SAMPLING, INSPECTIONS & TESTS**

1. AFTER BID RESULTS ARE TABULATED, THE CITY OF TULSA PURCHASING DIVISION RESERVES THE RIGHT TO REQUIRE SAMPLES OF SELECTED EQUIPMENT AND/OR PRODUCTS FOR INSPECTION AND EVALUATION.
2. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR PURCHASE ORDER, THE SUPPLIER SHALL BE RESPONSIBLE FOR THE PERFORMANCE OF ALL INSPECTION AND TEST REQUIREMENTS NECESSARY TO INSURE COMPLIANCE WITH REQUIREMENTS FOR THIS SPECIFICATION. THIS DOES NOT PRECLUDE SUBSEQUENT INSPECTION AND TESTIMONY BY THE CITY OF TULSA TO FURTHER DETERMINE CONFORMANCE WITH SPECIFICATION REQUIREMENTS OF QUALITY STANDARDS OF WORKMANSHIP, MATERIAL AND CONSTRUCTION TECHNIQUES.

### **PREPARATION FOR DELIVERY**

PRE-DELIVERY SERVICING AND ADJUSTMENT: PRIOR TO ACCEPTANCE BY THE CITY, THE DEALER SHALL SERVICE AND ADJUST EACH VEHICLE FOR OPERATIONAL USE, TO INCLUDE, AS A MINIMUM, THE FOLLOWING:

1. FOCUSING OF LIGHTS
2. TUNING OF ENGINE
3. ADJUSTMENT OF ACCESSORIES
4. CHECKING OF ELECTRICAL, BRAKING AND SUSPENSION SYSTEMS
5. CHARGING OF BATTERY(S)
6. ALIGNMENT OF FRONT END
7. INFLATION OF TIRES
8. BALANCING OF ALL WHEELS, INCLUDING THE SPARE (IF REQUIRED)
9. COMPLETE LUBRICATION OF ENGINE, CHASSIS AND OPERATING MECHANISMS WITH RECOMMENDED GRADES OF LUBRICANTS FOR THE AMBIENT AIR TEMPERATURE AT THE POINT OF DELIVERY.
10. SERVICING OF COOLING SYSTEM WITH A PERMANENT TYPE ANTI-FREEZE AND SUMMER COOLANT FOR A MINUS 30 DEGREES FAHRENHEIT.
11. FULL TANK OF FUEL.
12. OKLAHOMA SAFETY INSPECTION STICKER.
13. WARRANTY PAPERS AND OPERATOR'S MANUAL.
14. FACTORY CERTIFIED DATA PLATES INSTALLED ON VEHICLE DOOR.

**DELIVERY AND SPECIAL INSTRUCTIONS**

THE SUCCESSFUL BIDDER(S) SHALL DELIVER ALL VEHICLES, AT THEIR EXPENSE, TO THE LOCATION(S) SPECIFIED BY THE CITY. THE MANUFACTURER'S CERTIFICATE OF ORIGIN (MSO) AND ONE (1) EXTRA SET OF KEYS ARE TO BE DELIVERED WITH EACH VEHICLE.

**ADDENDA AND INTERPRETATIONS**

IF IT BECOMES NECESSARY TO REVISE ANY PART OF THIS BID, A WRITTEN ADDENDUM WILL BE PROVIDED TO ALL THE BIDDERS. THE CITY OF TULSA IS NOT BOUND BY ANY ORAL REPRESENTATION, CLARIFICATIONS OR CHANGES MADE IN THE WRITTEN SPECIFICATIONS BY CITY OF TULSA EMPLOYEES UNLESS SUCH CLARIFICATION OR CHANGE IS PROVIDED TO BIDDERS IN WRITTEN ADDENDUM FORM FROM THE PURCHASING DIVISION.

**ALTERING BIDS**

BIDS CANNOT BE ALTERED OR AMENDED AFTER SUBMISSION DEADLINE. ANY INTERLINEATION, ALTERATION, OR ERASURE MADE BEFORE OPENING TIME AND DATE MUST BE INITIALED BY THE SIGNER OF THE BID, GUARANTEEING AUTHENTICITY. BIDS MUST BE SUBMITTED IN INK OR TYPEWRITTEN, PENCILING WILL NOT BE ACCEPTED.

**AMERICANS WITH DISABILITIES ACT**

THE CONTRACTOR SHALL TAKE THE NECESSARY ACTIONS TO ENSURE ITS FACILITIES AND EQUIPMENT ARE IN COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. IT IS UNDERSTOOD THAT THE PROGRAM OF THE CONTRACTOR IS NOT A PROGRAM OR ACTIVITY OF THE CITY OF TULSA. THE CONTRACTOR AGREES THAT ITS PROGRAM OR ACTIVITY WILL COMPLY WITH THE REQUIREMENTS OF THE ADA. ANY COSTS OF SUCH COMPLIANCE WILL BE THE RESPONSIBILITY OF CONTRACTOR. UNDER NO CIRCUMSTANCES WILL CONTRACTOR CONDUCT ANY ACTIVITY WHICH IT DEEMS TO NOT BE IN COMPLIANCE WITH THE ADA.

**EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED**

A. DURING THE PERFORMANCE OF THIS CONTRACT, THE CONTRACTOR AGREES AS FOLLOWS:

- (1) THE CONTRACTOR WILL NOT DISCRIMINATE AGAINST ANY EMPLOYEE OR APPLICANT FOR EMPLOYMENT BECAUSE OF RACE, RELIGION, COLOR, SEX OR NATIONAL ORIGIN, EXCEPT WHERE RELIGION, SEX OR NATIONAL ORIGIN IS A BONA FIDE OCCUPATIONAL QUALIFICATION REASONABLY NECESSARY TO THE NORMAL OPERATION OF THE CONTRACTOR. THE CONTRACTOR AGREES TO POST IN CONSPICUOUS PLACES, AVAILABLE TO EMPLOYEES AND APPLICANTS FOR EMPLOYMENT, NOTICES SETTING FORTH THE PROVISION OF THIS NON-DISCRIMINATION CLAUSE.

**EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED (CONTINUED)**

(2) THE CONTRACTOR, IN ALL SOLICITATIONS OR ADVERTISEMENTS FOR EMPLOYMENT PLACED BY OR ON BEHALF OF THE CONTRACTOR, WILL STATE THAT SUCH CONTRACTOR IS AN EQUAL OPPORTUNITY EMPLOYER.

(3) NOTICES, ADVERTISEMENTS AND SOLICITATIONS PLACED IN ACCORDANCE WITH FEDERAL LAW, RULE OR REGULATION SHALL BE DEEMED SUFFICIENT FOR THE PURPOSE OF MEETING THE REQUIREMENTS OF THIS SECTION.

B. THE CONTRACTOR WILL INCLUDE THE PROVISION OF THE FOREGOING PARAGRAPHS OF THIS SECTION IN EVERY SUB CONTRACT OR PURCHASE ORDER OF OVER \$10,000, SO THAT THE PROVISIONS WILL BE BINDING UPON EACH SUBCONTRACTOR OR VENDOR.

**AWARD OF BID**

THE BID SHALL BE AWARDED TO THE FIRM WHOSE PROPOSAL IS RESPONSIVE TO THE BID AND IS MOST ADVANTAGEOUS TO THE CITY, CONSIDERING THE FACTORS IDENTIFIED IN THE BID AND SECTION 406E OF TITLE 6, THE PURCHASING ORDINANCE SET FORTH BELOW:

E. AWARD OF CONTRACT.

1. AUTHORITY OF MAYOR. THE MAYOR SHALL HAVE THE AUTHORITY TO AWARD CONTRACTS WITHIN THE PURVIEW OF THIS CHAPTER.

2. LOWEST SECURE BIDDER. CONTRACTS SHALL BE AWARDED TO THE LOWEST SECURE BIDDER MEETING SPECIFICATIONS. IN DETERMINING "LOWEST SECURE BIDDER", IN ADDITION TO PRICE, THE FOLLOWING FACTORS SHALL BE CONSIDERED:

A. THE ABILITY, CAPACITY AND SKILL OF THE BIDDER TO PERFORM THE CONTRACT OR PROVIDE THE SERVICE REQUIRED;

B. WHETHER THE BIDDER CAN PERFORM THE CONTRACT OR PROVIDE THE SERVICE PROMPTLY OR WITHIN THE TIME SPECIFIED, WITHOUT DELAY OR INTERFERENCE;

C. THE CHARACTER, INTEGRITY, REPUTATION, JUDGMENT, EXPERIENCE AND EFFICIENCY OF THE BIDDER;

D. THE QUALITY OF PERFORMANCE OF PREVIOUS CONTRACTS OR SERVICES;

E. THE PREVIOUS AND EXISTING COMPLIANCE BY THE BIDDER WITH LAWS AND ORDINANCES RELATING TO THE CONTRACT OR SERVICE;

F. THE SUFFICIENCY OF THE FINANCIAL RESOURCES AND ABILITY OF THE BIDDER TO PERFORM THE CONTRACT OR PROVIDE THE SERVICE;

G. THE QUALITY, AVAILABILITY AND ADAPTABILITY OF THE SUPPLIES OR CONTRACTUAL SERVICES TO THE PARTICULAR USE REQUIRED;

H. THE ABILITY OF THE BIDDER TO PROVIDE FUTURE MAINTENANCE AND SERVICE FOR THE USE OF THE SUBJECT OF THE CONTRACT, AND;

**AWARD OF BID (CONTINUED)**

I. WHERE AN EARLIER DELIVERY DATE WOULD BE OF GREAT BENEFIT TO THE REQUISITIONING AGENCY, THE DATE AND TERMS OF DELIVERY MAY BE CONSIDERED IN THE BID AWARD, AND;

J. THE NUMBER AND SCOPE OF CONDITIONS ATTACHED TO THE BID.

K. IF A POINT SYSTEM HAS BEEN UTILIZED IN THE BID SPECIFICATIONS, THE NUMBER OF POINTS EARNED BY THE BIDDER.

**BID DOCUMENTS**

BIDDER SHALL RETURN ALL BID DOCUMENTS (31 PAGES) EXACTLY AS FURNISHED IN IT'S ORIGINAL FORM. ALL BID DOCUMENTS REQUIRING SIGNATURE MUST BE SIGNED BY AN AUTHORIZED AGENT OF THE COMPANY BIDDING.

PRINTING YOU NAME IN LIEU OF SIGNATURE WILL NOT BE ALLOWED.

**FAILURE TO COMPLY WILL RESULT IN REJECTION OF YOUR BID.**

## 33,000 LB. GVW, DUAL REAR WHEEL, 2-DOOR CONVENTION CHASSIS CAB

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 (BIDDER'S PROPOSAL COLUMN). THE BIDDER SHALL GIVE A COMPLETE DESCRIPTION OF THE ITEM BEING BID, SUCH AS SIZES, CAPACITIES, DIMENSIONS, ETC.

SECTION 1 ITEM	SPECIFICATIONS ( MINIMUM )	SECTION 2 BIDDER'S PROPOSAL
EQUIPMENT	CURRENT YEAR MODEL 33,000 LB. GVW, DUAL REAR WHEEL, 2-DOOR CONVENTIONAL CHASSIS CAB.	MODEL YEAR: _____ MANUFACTURER: _____ MODEL NUMBER: _____
GROSS VEHICLE WEIGHT	<u>33,000 LBS.</u>	GVW: _____ LBS.
CAB	<p>1. <u>STYLE : 2-DOOR CONVENTIONAL CHASSIS CAB</u></p> <p>2. <u>SEAT (S): BENCH TYPE WITH SEAT BELTS FOR 3-PEOPLE.</u></p> <p>3. <u>SEAT COVERING: HEAVY-DUTY VINYL.</u></p> <p>4. <u>SUNVISORS: (1) L.H. AND (1) R.H..</u></p> <p>5. <u>ARM RESTS: (1) L.H. AND (1) R.H.</u></p> <p>6. <u>INTERIOR LIGHTING: DOME WITH DOOR ACTIVATED SWITCH.</u></p> <p>7. <u>WINDSHIELD WIPERS: ELECTRIC 2-SPEED INTERMITTENT WITH DUAL WASHERS.</u></p> <p>8. <u>MIRRORS: EXTERIOR WESTCOAST STYLE, APPROXIMATE 7" X 16" WITH 3" DIAMETER BOLT- ON TYPE CONVEX MIRRORS, MOUNTED ON EACH SIDE.</u></p> <p>9. <u>AIR CONDITIONING FACTORY INSTALLED, THROUGH-DASH TYPE.</u></p> <p>10. <u>GAUGES: FULL GAUGE PACKAGE WITH FACTORY AUDIBLE ALARMS AND LIGHTS.</u></p> <p>(A) <u>TRANSMISSION TEMP GAUGE</u></p> <p>(B) <u>TACHOMETER</u></p> <p>(C) <u>OIL PRESSURE GAUGE</u></p> <p>(D) <u>AIR PRESSURE GAUGE</u></p> <p>(E) <u>SPEEDOMETER</u></p> <p>(F) <u>HOUR METER</u></p> <p>(G) <u>COOLANT TEMP GAUGE</u></p> <p>11. <u>ADDITIONAL INSTRUCTIONS : INCLUDE THE FOLLOWING:</u></p> <p>(A) <u>CIGAR LIGHTER</u></p> <p>(B) <u>FULL HEAD LINER.</u></p> <p>(C) <u>FULL RUBBER FLOOR MAT.</u></p> <p>(D) <u>FACTORY INSTALLED AM/FM RADIO.</u></p> <p>(E) <u>HIGH HEAT WARNING LIGHT FOR TRANSMISSION.</u></p> <p>(F) <u>TINTED GLASS THROUGHOUT</u></p> <p>(G) <u>TILTING HOOD</u></p>	<p>1. STYLE: _____</p> <p>2. SEAT (S): _____</p> <p>3. SEAT COVERING: _____</p> <p>4. SUNVISORS: _____</p> <p>5. ARMRESTS: _____</p> <p>6. INTERIOR LIGHTING: _____</p> <p>7. WINDSHIELD WIPERS: _____</p> <p>8. MIRRORS: _____</p> <p>9. AIR CONDITIONING: _____</p> <p>10. GAUGES: _____</p> <p>11. ADDITIONAL INSTRUCTIONS: _____</p>

## 33,000 LB. GVW, DUAL REAR WHEEL, 2-DOOR CONVENTION CHASSIS CAB

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 (BIDDER'S PROPOSAL COLUMN). THE BIDDER SHALL GIVE A COMPLETE DESCRIPTION OF THE ITEM BEING BID, SUCH AS SIZES, CAPACITIES, DIMENSIONS, ETC.

SECTION 1 ITEM	SPECIFICATIONS ( MINIMUM )	SECTION 2 BIDDER'S PROPOSAL
ENGINE	<ol style="list-style-type: none"> <li>1. <u>FUEL: DIESEL</u></li> <li>2. <u>LITER: 8.7 LITER.</u></li> <li>3. <u>HORSEPOWER 275</u></li> <li>4. <u>DISPLACEMENT: 530 CUBIC INCH.</u></li> <li>5. <u>TORQUE: 800 AT ** RPM.</u></li> <li>6. <u>AIR CLEANER: DRY TYPE, DUAL REPLACEABLE ELEMENTS.</u></li> <li>7. <u>OIL FILTER: FULL FLOW, SPIN-ON TYPE.</u></li> <li>8. <u>FUEL FILTER: IN-LINE TYPE.</u></li> <li>9. <u>ENGINE HOUR METER : TO BE INCLUDED, MOUNTED INSIDE OF CAB.</u></li> <li>10. <u>110 VOLT 1250 WATT BLOCK HEATER: TO BE TO BE INCLUDED..</u></li> <li>11. <u>WATER SEPARATOR: IN-LINE, RACOR OR EQUAL WITH HEATER AND WARNING LIGHT.</u></li> <li>12. <u>EXHAUST SYSTEM: HORIZONTALLY MOUNTED ON LEFT SIDE OF TRUCK.</u></li> <li>13. <u>ELECTRONIC ENGINE OVERSPEED PROTECTION FOR PTO</u></li> <li>14. <u>ELECTRONIC ENGINE SHUTDOWN DERATE SYSTEM FOR LOW OIL PRESSURE, COOLANT TEMPERATURE, AND COOLANT LEVEL.</u></li> </ol>	<ol style="list-style-type: none"> <li>1. FUEL: _____</li> <li>2. LITER: _____</li> <li>3. HORSEPOWER: _____</li> <li>4. DISPLACEMENT: _____ CUBIC INCH.</li> <li>5. TORQUE: _____ AT _____ RPMS</li> <li>6. AIR CLEANER: _____</li> <li>7.OIL FILTER: _____</li> <li>8. FUEL FILTER: _____</li> <li>9. ENGINE HOUR METER: _____</li> <li>10. BLOCK HEATER: _____</li> <li>11. WATER SEPARATOR: _____</li> <li>12. EXHAUST SYSTEM: _____</li> <li>13.OVERSPEED PROTECTION: _____</li> <li>14. ENGINE SHUTDOWN: _____</li> </ol>
TRANSMISSION	<ol style="list-style-type: none"> <li>1. <u>TYPE: AUTOMATIC</u></li> <li>2. <u>SPEED: FIVE (5) SPEED WITH OVERDRIVE.</u></li> <li>3. <u>MANUFACTURER: ALLISON</u></li> <li>4. <u>MODEL NO: MD3060</u></li> <li>5. <u>FLUID COOLER: TO BE INCLUDED</u></li> <li>6. <u>ADDITIONAL INSTRUCTIONS: PTO TO HAVE ENABLER CAPACITY OR "HOT SHIFT" TYPE WITH ELECTRONIC "OVERSPEED PROTECTION" TP PREVENT PTO FROM TURNING AT MORE RPM'S THAN SYSTEM DESIGNED FOR. MUST BE GEARED TO ALLOW CONTINUOUS OPERATION AT 0-30 MPH. ELECTRONIC DASH MOUNTED CONTROLS WITH ENGAGEMENT LIGHT. NO LEVERS OR CABLES. MUST BE ABLE TO SHIFT PTO WHILE TRUCK IS IN MOTION AT 20-30 MPH. CHELSEA 230 SERIES OR</u></li> </ol>	<ol style="list-style-type: none"> <li>1. TYPE: _____</li> <li>2. SPEED: _____</li> <li>3. MANUFACTURER: _____</li> <li>4. MODEL NUMBER: _____</li> <li>5 FLUID COOLER: _____</li> <li>6. ADDITIONAL INSTRUCTIONS: _____</li> </ol>

## 33,000 LB. GVW, DUAL REAR WHEEL, 2-DOOR CONVENTION CHASSIS CAB

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 (BIDDER'S PROPOSAL COLUMN). THE BIDDER SHALL GIVE A COMPLETE DESCRIPTION OF THE ITEM BEING BID, SUCH AS SIZES, CAPACITIES, DIMENSIONS, ETC.

SECTION 1 ITEM	SPECIFICATIONS ( MINIMUM ) <u>EQUAL.</u>	SECTION 2 BIDDER'S PROPOSAL
COOLING SYSTEM	1. <u>RADIATOR: LARGEST CAPACITY AVAILABLE FROM THE MFG'ER</u> 2. <u>COOLANT RECOVERY SYSTEM: TO BE INCLUDED.</u>	1. RADIATOR: _____ 2. COOLANT RECOVERY SYSTEM: _____
ELECTRICAL SYSTEM	1. <b>12 VOLT SYSTEM</b> 2. <b>BATTERY (S):</b> (A) QUANTITY: <u>AS REQUIRED</u> (B) C.C.A. EACH: <u>1800</u> 3. <b>ALTERNATOR AMP HOURS: <u>170</u></b> _____ 4. <u>INCLUDE ALL LIGHTS AND REFLECTORS TO COMPLY WITH ALL FEDERAL AND OKLAHOMA STATE LAWS FOR 24 HOUR OPERATION ON ALL HIGHWAYS.</u> 5. <u>MUST PROVIDE MFG'ERS SEPARATE ELECTRONIC JUNCTION BOX FOR ADDITIONAL WIRING OF BODY ATTACHMENTS.</u>	1. _____ VOLT SYSTEM. 2. BATTERY (S) (A) QUANTITY: _____ (B) C.C.A. EACH: _____ 3. ALTERNATOR AMP HOURS: _____ 4. LIGHTS, REFLECTORS: _____ _____ 5. JUNCTION BOX: _____ _____ _____
BRAKE SYSTEM	1. <b>SERVICE BRAKES: <u>DUAL AIR SYSTEM.</u></b> 2. <b>PARKING BRAKE: <u>MGM SPRING.</u></b> 3. <b>AIR COMPRESSOR: <u>13.2 CFM, BENDIX 550 WITH DV-2 AUTOMATIC AIR TANK DRAINS AND WABCO SYSTEM SAVER 1200 AIR DRYER.</u></b>	1. SERVICE BRAKES: _____ 2. PARKING BRAKE: _____ 3. AIR COMPRESSOR: _____ _____ _____
STEERING	<b>TYPE: <u>POWER STEERING</u></b>	STEERING: _____
SUSPENSION	1. <b>FRONT AXLE <u>12,000</u> LBS.</b> 2. <b>FRONT SPRINGS: <u>12,000</u> LBS. CAPACITY AT PAD.</b> 3. <b>REAR SPRINGS: <u>23,500</u> LBS. CAPACITY AT PAD.</b> 4. <b>REAR AXLE <u>21,000</u> LBS. CAPACITY</b> 5. <b>REAR AXLE SPEED: <u>SINGLE</u></b> 6. <b>REAR AXLE RATIO: <u>GOVERNED TO 65 MPH</u></b> 7. <b>REAR AXLE MANUFACTURER AND STOCK NUMBER: <u>THE MANUFACTURER'S STANDARD.</u></b> 8. <b>AUXILIARY SPRINGS: <u>MULTI-LEAF 4500 LB. CAP..</u></b>	1. FRONT AXLE: _____ LBS. 2. FRONT SPRINGS AT PAD: _____ LBS. 3. REAR SPRINGS AT PAD: _____ LBS. 4. REAR AXLE: _____ LBS. CAPACITY 5. REAR AXLE SPEED: _____ 6. REAR AXLE RATIO: _____ 7. REAR AXLE MANUFACTURER: _____ STOCK NUMBER: _____ 8. AUXILIARY SPRINGS: _____ _____

## 33,000 LB. GVW, DUAL REAR WHEEL, 2-DOOR CONVENTION CHASSIS CAB

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 (BIDDER'S PROPOSAL COLUMN). THE BIDDER SHALL GIVE A COMPLETE DESCRIPTION OF THE ITEM BEING BID, SUCH AS SIZES, CAPACITIES, DIMENSIONS, ETC.

SECTION 1 ITEM	SPECIFICATIONS ( MINIMUM )	SECTION 2 BIDDER'S PROPOSAL
SUSPENSION (CONTINUED)	9. <b>STABILIZER BAR (S):</b> <u>MFG STD.</u> 10. <b>SHOCKS:</b> <u>HEAVY-DUTY, FRONT AND REAR.</u> 11. <b>WHEEL SEALS:</b> <u>OIL TYPE ON ALL AXLES.</u> 12. <b>ADDITIONAL INSTRUCTIONS:</b> <u>** MFG STD FOR THE GVWR.</u>	9. STABILIZER BAR (S): _____ 10. SHOCKS: _____ 11. WHEELSEALS: _____ 12. _____
FRAME	1. <b>SECTION MODULES:</b> <u>18.0</u> 2. <b>YIELD STRENGTH:</b> <u>50,000</u> PSI. 3. <b>RBM:</b> <u>2,015,000</u> LBS.	1. SECTION MODULUS: _____ 2. YIELD STRENGTH: _____ 3. RBM: _____
WHEELBASE	<u>AS REQUIRED FOR MOUNTING BODY AND ACCESSORIES.</u>	WHEELBASE _____ INCHES.
WHEELS	1. <b>FRONT SIZE:</b> <u>22.5 X 8.25</u> 2. <b>FRONT TYPE:</b> <u>10 HOLE HUB PILOTED</u> 3. <b>REAR SIZE:</b> <u>22.5 X 8.25</u> 4. <b>REAR TYPE:</b> <u>10 HOLE HUB PILOTED</u>	1. FRONT SIZE: _____ 2. FRONT TYPE: _____ 3. REAR SIZE: _____ 4. REAR TYPE: _____
TIRES	1. <b>FRONT SIZE:</b> <u>11R22.5 14 PLY</u> 2. <b>FRONT TREAD DESIGN:</b> <u>HWY RADIAL.</u> 3. <b>REAR SIZE:</b> <u>11R22.5 14 PLY</u> 4. <b>REAR TREAD DESIGN:</b> <u>MUD AND SNOW RADIAL.</u> 5. <b>SPARE:</b> <u>NOT REQUIRED (SEE OPTIONS).</u>	1. FRONT SIZE: _____ 2. FRONT TREAD DESIGN: _____ 3. REAR SIZE: _____ 4. REAR TREAD DESIGN: _____ 5. SPARE: _____
FUEL TANK (S)	1. <b>QUANTITY:</b> <u>ONE</u> 2. <b>CAPACITY:</b> <u>50</u> GALLONS EACH. 3. <b>TOTAL CAPACITY:</b> <u>50</u> GALLONS. 4. <b>TYPE AND CONSTRUCTION:</b> <u>STEEL</u> 5. <b>NOTE:</b> <u>SPECIFY IF FUEL TANK, EXHAUST, AIR DRYER, ETC. ARE MOUNTED IN SUCH A WAY AS TO PROTRUDE BEHIND THE CAB OR REARWARD OF CAB ON FRAME.</u>	1. QUANTITY: _____ 2. CAPACITY: _____ GALLONS EACH. 3. TOTAL CAPACITY: _____ GALLONS. 4. TYPE AND CONSTRUCTION: _____ 5. NOTE: _____
UNDERCOATING	<u>AS PER CITY OF TULSA STANDARD NO. 00001.</u>	UNDERCOATING: _____

## 33,000 LB. GVW, DUAL REAR WHEEL, 2-DOOR CONVENTION CHASSIS CAB

BIDDER SHALL COMPLETE EVERY SPACE IN SECTION 2 (BIDDER'S PROPOSAL COLUMN). THE BIDDER SHALL GIVE A COMPLETE DESCRIPTION OF THE ITEM BEING BID, SUCH AS SIZES, CAPACITIES, DIMENSIONS, ETC.

SECTION 1 ITEM	SPECIFICATIONS ( MINIMUM )	SECTION 2 BIDDER'S PROPOSAL
PAINT	<u>MFG STANDARD WHITE</u>	PAINT: _____
ADDITIONAL	<u>(A) PARTS MANUAL PERSONALIZED TO THE TRUCK.</u> <u>(B) SERVICE MANUAL.</u>	(A) _____ _____ (B) _____ _____

**SPECIFICATIONS**  
**BODY TO ACCOMMODATE 55 FT. BUCKET TRUCK**

The purpose of this specification is to define the requirements of The City of Tulsa for a body to be installed and used in conjunction with a 55 foot aerial device intended for heavy duty service. These are minimum requirements for an all steel body.

This body shall be the manufacturer's standard. It shall be equipped with the manufacturer's equipment and accessories which are included as standard in the advertised/published literature for the unit. No items, equipment or accessories, are to be removed or replaced for the reason that it was not specified in the bid.

This specification shall provide for a new steel body, the latest model. Complete with manufacturer's standard equipment and accessories, fully serviced ready to operate. To include manufacturer's certificate of warranty, and be bid less all applicable State and Federal Taxes. (Warranty shall be the standard for the industry as offered to the general public.) This body shall be equipped to meet all Federal and State of Oklahoma Safety Standards and Requirements. No dealer advertisement shall be affixed to the unit.

		<b>COMPLY</b>	
		<b>YES</b>	<b>NO</b>
<b>1.</b>	<b>UNDERSTRUCTURE</b>		
<b>1.1</b>	<b>Front crossmember 7 gauge commercial grade steel channel - floor width.</b>	_____	_____
<b>1.2</b>	<b>Rear crossmember 7 gauge commercial grade steel channel - floor width.</b>	_____	_____
<b>1.3</b>	<b>12 gauge commercial grade steel full width channel - crossmember for &amp; aft of the wheelhouse panel.</b>	_____	_____
<b>1.4</b>	<b>Intermediate Crossmember - (1) Front floor width 12 gauge Commercial Grade Steel Channel.</b>	_____	_____
<b>1.5</b>	<b>Center Frame Reinforcement - (3) 12 gauge Commercial Grade steel channel - full length longitudinal reinforcements.</b>	_____	_____

**SPECIFICATIONS**  
**BODY TO ACCOMMODATE 55 FT. BUCKET TRUCK**

- |  |       |       |
|--|-------|-------|
| <b>2. FLOOR - 12 gauge Safety Tread Plate Steel</b>                      | _____ | _____ |
| <br>   |       |       |
| <b>3. DOORS</b>  |       |       |
| <b>3.1 Double panel construction A60 Galvannealed steel.</b>             | _____ | _____ |
| <b>3.2 Exterior panel 20 gauge A60 Galvannealed steel.</b>               | _____ | _____ |
| <b>3.3 Interior panel 20 gauge A60 Galvannealed steel.</b>               | _____ | _____ |
| <b>3.4 Nylon Coated Aircraft Cable supports on all horizontal doors.</b> | _____ | _____ |
| <br>   |       |       |
| <b>4. LOCKS</b>  |       |       |
| <b>4.1 Flush Mounted</b>   | _____ | _____ |
| <b>4.2 Slam Action</b>   | _____ | _____ |
| <b>4.3 Keyed alike</b>   | _____ | _____ |
| <b>4.4 Striker plates must be 2-stage safety catches.</b>                | _____ | _____ |
| <br>   |       |       |
| <b>5. DOOR HINGES</b>  |       |       |
| <b>5.1 Concealed Pin, Door length hinges.</b>                            | _____ | _____ |
| <b>5.2 5/16" diameter Electro-Zink steel rod</b>                         | _____ | _____ |
| <b>5.3 Cadmium Plated Steel Hinge Brackets</b>                           | _____ | _____ |
| <b>5.4 Securely welded</b>   | _____ | _____ |

## SPECIFICATIONS

### BODY TO ACCOMMODATE 55 FT. BUCKET TRUCK

#### 6. BODY CONSTRUCTION

##### 6.1 Body construction and shelving material is to be steel with a minimum thickness as follows:

A. Body sides	16 gauge	_____	_____
B. Body Top Panels	16 gauge	_____	_____
C. Body End Panels	16 gauge	_____	_____
D. Door Inner Panels	20 gauge	_____	_____
E. Door Outer Panels	20 gauge	_____	_____
F. Shelving	18 gauge	_____	_____
G. Wheel Panels	14 gauge	_____	_____
H. Floor Sheeting (treadplate)	12 gauge	_____	_____

##### 6.2 Compartmentation - Right or Curbside

A. One compartment to be 20"-22" wide with five material hooks. (vertical)	_____	_____
B. One compartment to be 20"-22" wide with three material hooks & water cask bracket with drain. (vertical)	_____	_____
C. One compartment to be 28" wide with hinged access step and storage space below, leading to cargo area with grab handle	_____	_____
D. One compartment to be horizontal 60"-69" with two shelves and removable dividers.	_____	_____
E. One compartment to be 28"-36" wide with three shelves with removable dividers. (vertical)	_____	_____

##### 6.3 Compartmentation - Left or Streetside

A. One compartment 20"-30" wide with three hooks.(vertical)	_____	_____
B. Three compartments 22"-36" wide with adjustable shelves and dividers.(vertical)	_____	_____
C. One compartment to be horizontal 60"-69" with two shelves and removable dividers.	_____	_____
D. Hotstick shelf - extending from rear of body through second vertical compartment with two hot stick brackets and rear access door(s).	_____	_____

##### 6.4 Compartmentation - Rear

A. Metal drop-in tail board.	_____	_____
------------------------------	-------	-------

**SPECIFICATIONS**  
**BODY TO ACCOMMODATE 55 FT. BUCKET TRUCK**

**7. OTHER REQUIREMENTS**

- 7.1 Rain gutters/shields to be installed on the top and forward edge of all doors.** \_\_\_\_\_
- 7.2 Doors are to be full double paneled and a non-porous material is to be used to seal out moisture.** \_\_\_\_\_
- 7.3 Compartment locks shall be paddle handled, recessed, and all keyed alike.** \_\_\_\_\_
- 7.4 Lighting package is to meet FMVSS#108 Federal Safety Standards.** \_\_\_\_\_
- 7.5 Mud flaps are to be installed behind the rear wheels.** \_\_\_\_\_
- 7.6 Wheel chocks and holders to be provided near the rear wheels. One on each side.** \_\_\_\_\_
- 7.7 The body is to be undercoated with automotive underseal.** \_\_\_\_\_
- 7.8 Wiring to be in loom and properly secured to prevent sagging.** \_\_\_\_\_
- 7.9 The complete body is powder coat painted to match the chassis and aerial device.** \_\_\_\_\_
- 7.10 Access ladder to bucket to be included.** \_\_\_\_\_
- 7.11 Martex non-skid surface shall be applied to all walk surfaces.** \_\_\_\_\_
- 7.12 Bin lites to be provided with master switch in cab.** \_\_\_\_\_

**SPECIFICATIONS**  
**FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE**

**The purpose of this specification is to define the requirements of The City of Tulsa for a two-man, end hung, 55' (bottom of bucket to ground), aerial device.**

**The aerial device shall be the manufacturer's standard. It shall be equipped with the manufacturer's equipment and accessories which are included as standard in the advertised/published literature for the unit. No items, equipment or accessories, are to be removed or replaced for the reason that it was not specified in the bid.**

**COMPLY**  
**YES      NO**

**1. GENERAL SPECIFICATIONS**

- |            |  |       |       |
|------------|--|-------|-------|
| <b>1.1</b> | <b>The unit is to be a minimum of 55' to the bottom of the platform when installed with a standard subbase and based on a chassis height of 36".</b> | _____ | _____ |
| <b>1.2</b> | <b>The working height is to be a minimum of 60'.</b>   | _____ | _____ |
| <b>1.3</b> | <b>The stored height, based on a 36" frame height, is not to exceed 12'.</b>   | _____ | _____ |
| <b>1.4</b> | <b>The lower boom articulation is to be a minimum of 98 degrees.</b>   | _____ | _____ |
| <b>1.5</b> | <b>The upper boom articulation is to be a minimum of 159 degrees.</b>  | _____ | _____ |
| <b>1.6</b> | <b>The platform capacity is to be a minimum of 700 lbs. throughout the range of boom articulation.</b>   | _____ | _____ |
| <b>1.7</b> | <b>Continuous 360 degree rotation is to be provided.</b>   | _____ | _____ |
| <b>1.8</b> | <b>Unit is to meet the requirements as specified in ANSI92.2 - 1990.</b>   | _____ | _____ |
| <b>1.9</b> | <b>The aerial device pedestal is to be bolted to the chassis positioned over the rear axle.</b>  | _____ | _____ |

**SPECIFICATIONS**  
**FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE**

**2. OUTRIGGERS**

- 2.1 **One (1) set of rear outriggers, "A" frame type, is to be provided.** \_\_\_\_\_
- 2.2 **Spread of the outriggers is to be a minimum of 145".** \_\_\_\_\_
- 2.3 **One (1) set of front outriggers, "A" frame type, with a spread of 140" is to be provided.** \_\_\_\_\_
- 2.4 **The penetration of the outriggers is to be a minimum of 6".** \_\_\_\_\_
- 2.5 **The outrigger shoe is to be of the rigid type with a dimension of at least 12" X 12".** \_\_\_\_\_
- 2.6 **Each outrigger cylinder is to be equipped with a double acting check valve to prevent retraction or extension of the outrigger cylinder in the event of hydraulic failure.** \_\_\_\_\_
- 2.7 **Outrigger controls are to be located at the rear of the body on each side.** \_\_\_\_\_
- 2.8 **Outriggers will have Down interlocks.** \_\_\_\_\_
- 2.9 **Outriggers will have down alarm, and sense valve.** \_\_\_\_\_

**SPECIFICATIONS**  
**FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE**

**3. ROTATION**

- 3.1 Rotation is to be powered by a hydraulic motor, close coupled to a self-locking worm gear drive. \_\_\_\_\_
- 3.2 The rotation drive assembly must provide for a eccentric ring external adjustment of the gearbox pinion gear to the main rotation bearing to provide for the elimination of boom side play. \_\_\_\_\_
- 3.3 The gearbox is to be provided with an external shaft to allow manual rotation. \_\_\_\_\_
- 3.4 Must be equipped with a double check valve to ensure against unwarranted rotation. \_\_\_\_\_

**4. LOWER BOOM**

- 4.1 The fiberglass is to be bolted and bonded to the steel structure, providing a 24" minimum isolation gap between the steel members. \_\_\_\_\_
- 4.2 The inner surface of the fiberglass is to impregnated with a wax compound to provide for beading of moisture. \_\_\_\_\_
- 4.3 Resins used in the fiberglass insert are to include ultraviolet ray inhibitors. \_\_\_\_\_
- 4.4 The lower boom insert is to be tested for delamination and voids. \_\_\_\_\_
- 4.5 The lower boom is to be equipped with a lower boom protection system to hydraulically relieve pressure in the lower boom cylinder to prevent excessive down pressure when stowing the lower boom. \_\_\_\_\_

**SPECIFICATIONS**  
**FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE**

- 4.6 The lower boom cylinder is to be manufactured in accordance with ANSI A92.2 current standards. \_\_\_\_\_
- 4.7 The lower boom is to be tested to three times the rated load of the aerial and marked with a permanent test number. \_\_\_\_\_
- 4.8 The lower boom is to be fastened to the turntable with a stressproof, chrome-plated steel pivot pin with a minimum 2.5" diameter. The pin is to be mounted in a self-lubricating replaceable bearing. \_\_\_\_\_
- 4.9 The lower boom is to contain a hydraulic valve actuation mechanism designed to provide two separate hydraulic shut-offs, either of which will stop boom motion which might cause the upper boom to go over-center. \_\_\_\_\_
  
- 5. **UPPER BOOM**
- 5.1 The upper boom is to provide a fiberglass isolation gap of at least 15', between external and internal metal components of the upper boom in any boom configuration. \_\_\_\_\_
- 5.2 The fiberglass boom component is to be bolted and bonded to the steel knuckle weldment. \_\_\_\_\_
- 5.3 The inner surface of the fiberglass boom is to be impregnated with a wax compound to provide for beading of moisture. \_\_\_\_\_
- 5.4 Resins in the boom construction are to include ultraviolet ray inhibitors. \_\_\_\_\_
- 5.5 The assembled unit must be tested in accordance with ANSI-A92.2 current standards for "46 KV" rating. \_\_\_\_\_

**SPECIFICATIONS**  
**FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE**

**6. UPPER BOOM ARTICULATION**

- 6.1 **The articulation of the boom is to be by a linkage system. Chains and/or cables are not acceptable.** \_\_\_\_\_
- 6.2 **The links are to be tested to a load equal to three times their nominal loading and marked with a permanent test number.** \_\_\_\_\_
- 6.3 **The upper boom articulation is to be activated by a cylinder directly connected to the linkage.** \_\_\_\_\_
- 6.4 **The upper boom cylinder must be manufactured in accordance with ANSI A92.2 current standards.** \_\_\_\_\_
- 6.5 **The upper boom cylinder is to be tested to three times the rated load of the aerial & marked with a permanent test number.** \_\_\_\_\_
- 6.6 **The upper boom lift cylinder shall not go into tension during articulation.** \_\_\_\_\_
- 6.7 **The upper boom cylinder is to be equipped with counterbalance holding valves.** \_\_\_\_\_

**7. PLATFORM**

- 7.1 **One (1) single, two-man fiberglass platform. 24" x 48"** \_\_\_\_\_
- 7.2 **Two steps for platform entry are to be provided on the curbside of the platform.** \_\_\_\_\_
- 7.3 **The platform is to be positively & automatically leveled by fiberglass insulating rods & cables maintaining the dielectric integrity of the booms. Leveling chains are unacceptable.** \_\_\_\_\_
- 7.4 **The leveling rod and end fitting attachment is to be pull tested to two (2) times the normal design load and permanently marked with a test number.** \_\_\_\_\_
- 7.5 **Platform capacity shall be 700 lbs.** \_\_\_\_\_
- 7.6 **Hydraulic tilting platform for man rescue and clean out.** \_\_\_\_\_

**SPECIFICATIONS**  
**FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE**

**8. HYDRAULIC SYSTEM**

- 8.1 The hydraulic system is to be a high efficiency, pressure-compensating load-sensing type to provide hydraulic pressure and flow on system demand. \_\_\_\_\_
- 8.2 The pump must be a high-efficiency pressure-compensating, load sensing type, capable of producing:
  - A. Pressure range of 350-2500 PSI \_\_\_\_\_
  - B. Flow range of 0 to 15 GPM. \_\_\_\_\_
- 8.3 The oil reservoir must be a minimum of 12 gallons.
  - A. Have access cover with gasket. \_\_\_\_\_
  - B. Be equipped with breather filler cap with dip stick and strainer. \_\_\_\_\_
  - C. Suction line must have a shut-off valve. \_\_\_\_\_
  - D. Return line to be equipped with a 10 micron, replaceable filter. \_\_\_\_\_
  - E. Equipped with internal baffles. \_\_\_\_\_

**9. CONTROLS**

- 9.1 The control system must be a hydraulic, low pressure, non-captive type. \_\_\_\_\_
- 9.2 The upper controls are to be of the single handle pistol grip type. \_\_\_\_\_

**SPECIFICATIONS**  
**FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE**

- 9.3 **The single handle control is to activate:**
  - A. Lower boom "up" and "down". \_\_\_\_\_
  - B. Upper boom "up" and "down". The upper boom must not automatically raise when the lower boom is activated. \_\_\_\_\_
  - C. Rotation "left" and "right". \_\_\_\_\_
  - D. An automatic engine throttle when trigger is pressed. \_\_\_\_\_
  
- 9.4 **Multiple, simultaneous boom movements possible by operating the single handle control.** \_\_\_\_\_
  
- 9.5 **When the single handle control trigger is released:**
  - A. Oil pressure and flow is positively blocked to the control head and main control valves. \_\_\_\_\_
  - B. The interlock system must be mechanically or hydraulically activated.(no electrical activation) \_\_\_\_\_
  
- 9.6 **The control is to be mounted on the platform, streetside.** \_\_\_\_\_
  
- 9.7 **Platform control valves & single handle controller must be fully enclosed in a top accessible, fiberglass cover.** \_\_\_\_\_
  
- 9.8 **Lower controls must be located on the street side of the turntable with the valves under protective cover and valve handles extending through the cover.** \_\_\_\_\_
  
- 9.9 **The lower control station must activate:**
  - A. Lower boom "up" and "down". \_\_\_\_\_
  - B. Upper boom "up" and "down". \_\_\_\_\_
  - C. Rotation "right" and "left". \_\_\_\_\_
  
- 9.10 **The lower station must override the upper station.** \_\_\_\_\_
  
- 9.11 **Lower station control system purging must be provided.** \_\_\_\_\_
  
- 9.12 **Must have boom tip hydraulic line flashover protection.** \_\_\_\_\_

## SPECIFICATIONS

### FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE

- 9.13 Hydraulic tool circuit to be provided at Bucket. \_\_\_\_\_
- 9.14 Hydraulic tool circuit to be provided at rear of truck curb side. Altec # 297 \_\_\_\_\_
- 9.15 Hydraulic, spring loaded hose reel and 35' of hose to be mounted at rear of truck curb side. \_\_\_\_\_
- 9.16 Start /stop to be provided at platform. Altec # 310 \_\_\_\_\_
  
- 10. OTHER REQUIREMENTS
  
- 10.1 All fasteners in the aerial unit must be minimum grade 5. \_\_\_\_\_
- 10.2 All steel hydraulic tubing in the unit must be plated. \_\_\_\_\_
- 10.3 The unit is to have an emergency operating system equipped with a pump and heavy duty electric motor operating from a battery designated for this purpose. Control switch to be at platform and lower control station. \_\_\_\_\_
- 10.4 Two (2) copies each of the Parts, Maintenance, and Operators manuals required upon delivery. (Parts & maintenance manuals must list all major hydraulic and mechanical components by part number) \_\_\_\_\_
- 10.5 A pictorial hydraulic flow chart as well as SAE, JIC hydraulic schematics are required upon delivery. \_\_\_\_\_
- 10.6 Aerial unit is to be powder coat painted to match the chassis. \_\_\_\_\_
- 10.7 A polyethylene bucket liner is to be provided. \_\_\_\_\_
- 10.8 A nylon reinforced vinyl platform cover is to be provided. \_\_\_\_\_
- 10.9 A safety harness and lanyard OSHA current standard is to be furnished. Size, large \_\_\_\_\_

## SPECIFICATIONS

### FIFTY-FIVE FOOT, TWO-MAN AERIAL DEVICE

10.10 A cushioned pedestal rest for the platform to rest on during transit is to be installed beneath platform.

\_\_\_\_\_

10.11 A 3/4" drive hydraulic impact wrench, reversable.

\_\_\_\_\_

10.12 An 8' length of Red rubber hydraulic hose and fittings.

\_\_\_\_\_

10.13 A reflective triangle set ( 3 triangles) with case.

\_\_\_\_\_

**11. OPTIONS - MANDATORY BID**  
(Individual prices must be included for these options)

11.1 One hydraulic Tamper with control on top.  
All hoses and fitting to match truck.  
system to be open and closed center  
4 - 6 gpm flow range  
1000 - 2000 psi operating pressure  
foot to be kidney shaped  
9/16 - 18 SAE o-ring pressure port thread  
3/4 - 16 SAE o-ring return port thread  
min. blows per min. 1160 @ 5 gpm.

\_\_\_\_\_

11.2 One variable speed, Reversable hydraulic drill with 3/4" chuck.

\_\_\_\_\_

11.3 One hydraulic chainsaw with 18" to 20" bar.  
system to be open and closed center  
4 - 8 gpm flow range  
1000 - 2000 psi operating pressure  
9/16 - 18 SAE o-ring pressure port thread  
3/4 - 16 SAE o-ring return port thread

\_\_\_\_\_

11.4 One 2500 Watt Inverter "DC to AC" with recepticle mounted near rear step, curb side of truck. Battery to be isolated from starter battery. Unit should have a low voltage shutoff.

\_\_\_\_\_