

BID SUBMITTAL FORM

**Cab and Chassis, Vehicle Mounted Elevating and Rotating Aerial Device and Work Platform,
Utility Box and Warning Light Package
City of Cedar Rapids**

These specifications are for the furnishing of one (1) new or high quality used, 19,000 lb gvwr, cab and chassis, and vehicle mounted elevating and rotating articulating/telescopic aerial device and work platform and one (1) utility body to be utilized for signal operations by the City of Cedar Rapids Traffic Engineering Department. It is our intent to purchase from available dealer stock, "ready to deliver". Any differences (exceptions) to the attached specifications shall be listed in the 'Comments' portion of this submittal form. The unit proposed shall meet or exceed the attached minimum specifications. Please see the Bid Document and Fleet Vehicle Inspection/Receiver Report for additional requirements of this equipment.

Aerial lift is not intended for use around electrically energized circuits however lift shall meet all applicable American National Safety Institute/Scaffold Industry Association (ANSI/SIA) standards Vehicle-Mounted Elevating and Rotating Aerial Devices.

SPECIFICATIONS: Any supplier who willfully falsifies responses indicating compliance or non-compliance with the minimum requirements listed below will be subject to suspension and/or debarment from bidding.

CAB & CHASSIS

Cab to Axle = 60" (in.)

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
1.	AXLES / SUSPENSION				
	Axles and springs shall be sized to handle utility body, lift and cargo				
	Shock absorbers front and rear				
	Synthetic oil lube for axle				
2.	BRAKES				
	Antilock brakes with traction control				
3.	BUMPER				
	Standard Front bumper				
4.	CAB & CHASSIS				
	Regular cab 141" Wheelbase				
	Straight frame rail chassis suitable for mounting a utility body				
	Cab to axle: 60 inches				
	Power steering				
5.	ELECTRICAL				
	Heavy-duty 12-volt battery, 78amp/hr minimum				
	Alternator, 140 amp				
	Shall include all necessary options for the aerial lift and utility body (body builder wiring to end of frame, remote engine start/stop, 2 speed idle for PTO, PTO operable up to 5 mph, etc)				
6.	ENGINE				
	6.4L diesel				
7.	ENGINE WARNING SYSTEM				
	Buzzer and light for low oil pressure, low water level and high water temperature required				
8.	EXHAUST SYSTEM				
	Standard with curbside out put				
9.	GVWR				
	19,000 lb GVWR				
10	HEATER/DEFROSTER/AC				
	Heavy-duty heater with defroster and standard air conditioning				
11	INSTRUMENTATION				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Full gauge package: oil pressure, engine temperature, voltmeter, odometer, speedometer, tachometer, fuel, air pressure				
	Engine hour meter				
	Transmission temperature gauge				
12	INTERIOR LIGHTS				
	Standard dome light package activated by either door and manual switch				
13	MIRRORS				
	Break away heated power convex mirrors				
14	POWER OUTLETS				
	Dash mounted 12-volt – quantity of 2				
15	RADIO				
	AM/FM/WB stereo with clock, antenna shall be clear of boom operation, relocate as necessary (mirror or fender mount antenna OK)				
16	SEATING				
	Standard seating for driver and two passengers with lumbar support				
17	STEERING				
	Power steering				
	Tilt and telescoping adjustable				
18	SUN VISORS				
	Dual padded				
19	TIRES				
	Front LT225/70R X 19.5 Steel belted radial load range appropriate to aerial device operations.				
	Rear LT225/70R X 19.5 Steel belted radial load range appropriate to aerial device operations, maximum traction tread				
20	TOW HOOKS				
	2 tow hooks on front, frame mounted				
21	TRANSMISSION				
	5 speed automatic w/overdrive				
22	COLOR				
	White paint clear coat bright				
23	WINDSHIELD WIPERS				
	Dual intermittent wiper system				
24	BACK-UP ALARM				
	95 dB minimum				
25	ADDITIONAL SPECIFICATIONS				
	Cold Weather kit including electric block heater				
	Trailer connection socket 7 pin at end of frame, turn signals combined with stop				
	Extended life antifreeze to -34 degrees F				
	Front license plate holder				

AERIAL DEVICE – THIS IS A PERSONNEL DEVICE

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
1.	PLATFORM				
1A	<i>Height</i>				
	The lift shall provide a maximum 41' working height				
1B	<i>Horizontal Reach</i>				
	The maximum side reach for the platform shall be 28' center of pedestal to far side of bucket. Specify maximum side reach at 12' working height				
1C	<i>Travel Height</i>				
	The stowed height of the lift as mounted on the vehicle shall be no more than 10' above the ground				
1D	<i>Boom Operation</i>				
	Continuous boom rotation is required				
	The boom shall be combination telescopic/articulating				
1E	A certified safety lanyard and harness must be provided with the anchor point attached to the upper platform support.				
1F	Compensation links must be located in side the boom for protection. The outer/inner boom assembly includes an outer boom, telescopic inner boom, extension system, and hose assemblies. The outer boom consists of an 8 in. x 10 in. (203 mm x 254 mm) rectangular steel section. The 6-1/2 in. x 8-1/2 in. (165 mm x 216 mm) rectangular aluminum inner boom is housed within the outer boom. The inner boom can be easily removed and disassembled for service and inspection. The extension system consists of a hydraulic cylinder, two integral holding valves, and dual #50 roller chains housed entirely within the boom assembly. The hoses routed through the outer/inner boom assembly are fully contained within the boom assembly. <u>Main boom strapped for extra strength to prevent bell mouth during long term use with 1/2" x 2" welded to boom.</u> The outer/inner boom assembly articulates from 25 degrees below horizontal to 85 degrees above horizontal. Actuated by a double acting cylinder that has two, integral holding valves, the outer/inner boom assembly is offset to one side to provide easy access to the platform. A boom support cradle and a boom tie down strap are included.				
1G	Non-lube bearings at points of motion. Excluding the rotation bearing and extension chain require periodic lubrication.				
1H	The pedestal is tubular with reinforced mounting plate. The top plate of the pedestal is 1-1/4 in. (32 mm) thick and machined flat to support the rotation bearing.				
2.	REQUIREMENTS				
2A	<i>Size</i>				
	36" x 60" inside diameter with 24" door. Constructed of 1 1/2" aluminum pipe schedule 40 bent at 6" radius for corner strength. Floor is aluminum diamond plate 3/16" with 4" kick-plate. Mounting Plate to Rotation Motor using 12 Bolts Grade 8 with Torque Strips.				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Mounting Plate to be made of Core Ten 1/2" thick. Wide Bracket Mounting on Platform offset mounting on Platform for Stability in operations, 2 braces on side of Boom Tip Pin to support side movement of Platform. Continuous upper rails on Platform, 30" door for access to Platform. Rubber Bumper mounted to Platform.				
	The boom rest shall be spring loaded type, with bucket stowed on tail shelf in travel mode				
2B	<i>Capacity</i>				
	An 11" x 17" label shall be inside each rear utility door showing range of motion and capacity ratings				
2C	<i>Leveling</i>				
	Automatic platform leveling with upper and lower manual controls and internal leveling arms (rods).				
2D	<i>Rotation</i>				
	180-degree platform rotation is required				
2E	<i>Access</i>				
	Curbside access with aluminum grip strut steps and two (2) handrails				
	Maximum step height of 18" will be permitted from the ground to the first step and a maximum height of 12" will be permitted for all other steps				
	Minimum step size 9" x 18"				
	All steps and any surface that can be walked on shall have an all-weather non-slip surface				
2F	<i>Outriggers</i>				
	H-frame outriggers are shear-plate mounted to the frame and are equipped with pilot operated check valves, internal thermal relief valves, and separate controls. At maximum extension, the outriggers furnish 96-in. (3.05 m) of spread and 9 in. (229 mm) of penetration. They have 17 in. (432 mm) of ground clearance based on 36-in. (0.91 m) or 31 in. (0.79 m) frame height.				
	Pivoting outrigger feet swivel 12 degree angle about a horizontal centerline				
	The outrigger/boom interlock system prevents lift operation until the outriggers contact the ground and outrigger retraction before the aerial lift is properly stored				
	Outriggers shall have 15" of ground clearance when raised				
	Additional 2-speed PTO idle switch located near outrigger controls				
	Outriggers shall have 15" of ground clearance when raised				
2G	<i>Torsion Bar</i>				
	A torsion bar shall be added to the rear axle to provide a personnel only capacity of 500 lbs with outriggers raised				
3	HYDRAULIC PUMP SYSTEM				
3A	<i>Pump</i>				
	The pump shall be gear type with cast iron housing direct mounted to transmission				
	Pump shall meet lift manufacturers specifications				
	Pump shall be electrically engaged				
	The open-center hydraulic operates at 2700 psi (176 kg/cm ²) at 6 gpm (22.7 lpm). A 10-micron return line				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	filter, mounted above the hydraulic oil level and inside the pedestal, can be easily changed without draining the reservoir. The 100 mesh (149 micron) suction strainer in the reservoir can be removed for cleaning. A gate valve, located below the reservoir, prevents oil loss when the pump is serviced. A magnetic drain plug attracts metal particles from the oil				
3B	<i>Oil Tank Reservoir</i>				
	Reservoir shall be in the pedestal 17 gallon (64.41) hydraulic oil reservoir is built integral to the pedestal. The reservoir includes anti-splash baffles and two sight gauges for quick hydraulic fluid level checks.				
	Level and temperature gauges shall be provided				
	Hydraulic oil shall be Mil spec 5606				
	120-volt 1000-watt hydraulic oil heater, with thermostat or indicator light				
3C	<i>Operation</i>				
	The hydraulic system shall provide both power-up and power-down operations				
3D	<i>Filter</i>				
	A 2-filter system, pressure and return, capable of providing 10 micron nominal filtration with shut-off valves for filter changes				
4	CONTROLS				
4A	<i>Control Systems</i>				
	Dual controls shall be used; one set near the boom pedestal and the second set located on the platform				
	A single control lever shall control most movements at the platform				
	All controls shall provide continuously variable speed for the platform				
	Any captive air plungers shall be brass				
	Lower controls and outrigger controls shall be covered or recessed to prevent anything from falling and actuating control				
4B	<i>Stop-Start and 2-Speed Switch</i>				
	A stop-start and a 2-speed idle control shall be provided in the control panel at the platform level so the operator may turn the vehicle engine off and on or adjust engine speed				
4C	<i>Vehicle Cab Control Panel</i>				
	A red light will indicate when the platform leaves the resting pads				
	A red light will indicate when the outriggers are not raised				
	A switch will engage the PTO with a light to indicate when the PTO is on				
4D	<i>Emergency Power</i>				
	A 12-volt emergency hydraulic power system shall be installed so that the boom and outriggers are fully operational in case of engine failure				
	The controls for this shall be at both upper and lower control station				
4E	<i>Holding Valve</i>				
	An in-line valve, connected to the lift cylinders, shall prevent falling of the lift platform in case of hose bursting				
	Hydraulic tool power at platform with HTMA driplless				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	quick connectors				
5	UTILITY BODY				
5A	<i>General</i>				
	It shall consist of a standard arrangement of weather-tight vertical and horizontal doors and compartments				
	All compartments shall be lockable and shall be keyed alike				
	Taillights shall have interior guards				
	Any added wiring shall have both ends labeled and include a wiring diagram				
5B	<i>Size</i>				
	The utility body shall be appropriate to the aerial device and the 60" CA chassis w/20" deep compartments, 108" long				
	It shall be sized to fit the chassis				
	The tail shelf shall be aluminum, 48" long, approximately 20" tall, with a gripstrut (or equivalent) step bumper				
5C	<i>Compartments</i>				
	Doors shall use spring-loaded over center door stops and rotary T - style twist latches				
	Fiberglass or galvanized steel construction. Please state:				
	Fiberglass body must have gelcoat finish and wood panel reinforced doors and structure				
	Steel Body must be 16 gauge galvanized material.				
	All shelves and drawers shall include 50% of available removable dividers				
6	EXTERIOR ACCESSORIES				
6A	<i>Lighting</i>				
	(2) sets 4" round backup lights and LED taillights; (1) set in tail shelf and (1) set mounted in utility body with location to be determined at pre-build meeting				
6B	Utility body bed, walls and top of body shall be reinforced with metal and coated with non-skid spray on bedliner, top of tail shelf and underside of utility body.				
6C	<i>Towing</i>				
	A pintle hitch and a 2" receiver hitch, rated for 12,000 pounds, with tow chain shackles				
	Pintle hitch mounted at 24" above ground				
	Receiver mounted 18" above ground				
	2-5/16" ball on 2" drop receiver insert				
	Front receiver hitch 500 lb tongue weight capacity, with cone holder hitch insert				
	Relocate front license plate as necessary				
6D	<i>Trailer Wiring</i>				
	7 pin RV style outlet with (2) adapters, (1) 7 pin to 6 pin round and (1) 7 pin to 4 pin flat				
6E	<i>Placard</i>				
	Mounted on dash with travel height				
6F	<i>Trailer Brakes</i>				
	Electric trailer brake controller shall be installed in cab and wired to trailer sockets				
6G	Mud flaps shall be installed front and rear				
6H	Storage in tail shelf for measuring rod, 5'6" long, with opening at rear				
6I	Cone holders at left and right rear corners of tail shelf, consisting of 8" diameter hole so that cones stack				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	upside down				
6J	<i>AC inverter</i>				
	Dimensions 1200 watt continuous rating with GFCI outlets				
	True sine wave, hard-wired to truck battery with 12-volt circuit breaker, set up to operate only when ignition on and inverter switched on				
	Additional AC outlets at right rear of utility body, near boom pedestal (for fluid heater) and in cab				
	Mounted in R1 top shelf, with vented cover				
6K	10:BC fire extinguisher with bracket mounted on front left of utility body				
7	WARNING LIGHT PACKAGE				
7A	<i>Lightbar</i>				
	PSE Excalibur X69A light bar, or approved equal, see drawing				
	Shall include arrow stick controller and (6) illuminated switch control box				
	Mounted on roof of cab with door frame attachment (no holes in cab roof)				
7B	<i>Rear Arrow Stick</i>				
	LED split arrow stick, 8 segment, with clear lenses				
	Each segment shall meet class 1 SAE, with controller, arrow stick mounted at top rear of utility body				
	Guard/shade mounted above arrow stick				
7C	<i>(2) Rear-Facing LEDS</i>				
	PSE 65RH or approved equal				
	Synchronized flash, 60 fpm (separate flasher as necessary)				
	Mounted on rear of tail shelf, toward sides				
7D	<i>4-Side Facing Strobes or LEDS</i>				
	4-head class 2 SAE amber strobe or LED system, flush or grommet mount, with wide viewing angle				
	(1) mounted on each side of tail shelf, toward rear				
	(1) mounted on each side of utility body, at front of wheel wells				
7E	<i>Warning Light Power</i>				
	Use OEM truck switch 1-3 for master control of light bar switch panel and controllers for arrow sticks				
	All switches and lamps shall be labeled (see drawing)				
	Arrow stick controllers and switch box location to be determined at pre-build meeting				
	Submit specifications for approval for all warning lights				

BID SUBMITTAL FORM
CAB AND CHASSIS, VEHICLE MOUNTED ELEVATING AND ROTATING AERIAL DEVICE AND
WORK PLATFORM, UTILITY BOX AND WARNING LIGHT PACKAGE
Cab and Chassis, Vehicle

CAB AND CHASSIS

Manufacturer: _____ Model: _____ Year: _____

AERIAL PLATFORM

Manufacturer: _____ Model: _____ Year: _____

UTILITY BODY

Manufacturer: _____ Model: _____ Year: _____

Is the unit new or high quality used? New High Quality Used

If high quality used, how many miles are on the unit: _____

TOTAL PRICE FOR COMPLETE UNIT \$ _____

An executed Purchase Order is the document which authorizes this purchase to be made.

Estimated Delivery Time Upon Receipt of Purchase Order _____ calendar days

It is our intent to purchase from available dealer stock, "ready to deliver".

Dealer Name _____

Dealer Representative Signature _____

Date _____

DELIVERY:
Vehicle shall be delivered to the address stated below. Delivery is FOB Destination.

DELIVERY ADDRESS

 Fleet Services Division
 Attn: Dennis Hogan
 1010 1st Street NW
 Cedar Rapids, IA 52405

BILLING ADDRESS

 City of Cedar Rapids
 Finance Department
 3851 River Ridge Dr. NE
 Cedar Rapids, IA 52402

SIGNATURE PAGE

The undersigned bidder, having examined these documents and having full knowledge of the condition under which the work described herein must be performed, hereby proposes that she/he will fulfill the obligations contained herein in accordance with all instructions, terms, conditions, and specifications set forth; and that she/he will furnish all required products/services and pay all incidental costs in strict conformity with these documents, for the stated prices as payment in full.

Submitting Firm: _____

Address: _____

City: _____ State: _____ Zip: _____

Authorized Representative (print): _____ Title: _____

Authorized Signature: _____

Date: _____ E-mail: _____

Phone # () _____ Fax # () _____

EXCEPTIONS/DEVIATIONS to this Request for Bid shall be taken below – please be as specific as possible. All exceptions shall be stated no matter how seemingly minor. If adequate space is not provided for exceptions/deviations, please use a separate sheet of paper. If your company has no exceptions/deviations, please write "No Exceptions" in the space below.

GENERAL INFORMATION

- FOB point in terms of loss or damage is destination.
- Freight and/or delivery charges shall be included in the price of the goods.

FIRM PRICING

Offered prices shall remain firm for a minimum of 60 days after the due date of this solicitation unless indicated otherwise. Accepted prices shall remain firm for the duration of the contract.

PIGGYBACK PROCUREMENT METHOD

If you are the successful bidder, will you consider extending the pricing to other City of Cedar Rapids departments and to other governmental entities as described in the General Terms and Conditions (located at the back of this document)? Your response will not be considered as an evaluation factor in awarding this bid/proposal.

Yes No

ADDENDA {It is Bidder's responsibility to check for issuance of any addenda}

The authorized representative hereby acknowledges receipt of the following addenda:

Addenda Number: _____ Date: _____ Addenda Number: _____ Date: _____

Addenda Number: _____ Date: _____ Addenda Number: _____ Date: _____

PAYMENT METHOD

Do you accept MasterCard for payment of purchases? Yes No

QUICK PAY DISCOUNT

If you provide a discount for quick payment, please state the discount and terms: _____ % _____ days

Does this discount apply to payments made by MasterCard? Yes No

We choose not to bid at this time but would like to be considered for future requests for bid.