

**AGENDA ITEM EXECUTIVE SUMMARY**

Agenda Item number: *IT

Title:

Recommendation to Approve a Resolution Authorizing the Mayor and the City Clerk of the City of St. Charles to Approve the Award of One (1) 2020 Altec Model DB37 Hydraulic Derrick “Backyard” Machine and Sell the replaced Altec Model DB30 unit number 2184 and its trailer unit number 2183.

Presenter:

Paul Hopkins

Meeting: City Council

Date: April 27, 2020

Proposed Cost: \$145,419

Budgeted Amount: \$146,000

Not Budgeted: **Executive Summary** *(if not budgeted please explain):*

The Electric Utility staff recommends the purchase of a 37’ Altec Industries Hydraulic Derrick “Backyard” Machine and matched 16,000 lb. trailer via the Sourcewell Cooperative Purchasing Program. The Electric Utility Division utilizes this piece of equipment year-round for access to residential area yards for overhead distribution utility pole replacement and installation which is necessary to maintain the electric distribution lines in older residential neighborhoods.

The replacement of this equipment was reviewed by the City’s Fleet Committee. The Sourcewell Cooperative Purchasing Program bid is for \$133,008 with an additional manufacturer required 16,000 lb. trailer at \$11,317 and complete unit delivery cost of \$1,094 from St. Joseph, Missouri. The existing unit’s pole height limitations and the significant repairs required in recent years have driven the need to replace the existing equipment. Staff is also seeking approval to sell the replacement equipment and trailer units number 2184 and 2183, backyard machine and trailer respectively.

Attachments *(please list):*

*Altec Specification and Bid Sheet *Altec Required Trailer, Delivery, and necessary pole handling jib Bid Sheet *Altec factory Cut-Sheet

Recommendation/Suggested Action *(briefly explain):*

Recommendation to approve the purchase of a new 2020 Altec DB37 Hydraulic Derrick “Backyard” Machine and trailer and sell the existing Altec DB30 unit and trailer, units number 2184 and 2183.



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 **Altec**
BACKYARD
DIGGER DERRICK

FEATURES

- 5-Function HOP, Including Boom Down
- Hydraulic Tilting Pole Guides
- Electronic Side Load Protection (ESLP)
- Proportional Hydraulic Drive Pendant
- Insulating, Fiberglass Third Stage with 46 kV and Below Rating
- All Boom Sections Extend/Retract Hydraulically
- Full Capacity Fiberglass Upper Boom
- Fixed Steel Boom Flares at Boom Tip
- Hydraulic Auger Release
- Tool Circuit
 - » Below Rotation: Two-way, adjustable flow up to 6 GPM at 2,000 PSI
 - » Above Rotation: Adjustable flow up to 4.5 GPM at 2,000 PSI
- Capable of Setting a 50 ft, Class 1 Pole
- Travel/Drive Tilt Alarm for 15° Side Slope
- Boom and Auger Stow Protection (proximity switch)
- Radial Outriggers with 5 in of Penetration
- 12 in of Outrigger Ground Clearance
- Outrigger Interlocks (proximity switch)
- Outrigger Motion Alarm

OPTIONS

- Full-Function Radio Controls for Unit Drive and Boom
- Radio Remote Control Docking Station (for radio remote upper controls, ANSI compliant control interlocks)
- 16,000 lb (7257.5 kg) GVWR Capacity Trailer
- Single or Dual Aerial Platform with 300 lb Capacity
- 8 ft Fiberglass Material Handling Jib
- 110V AC Power Inverter w/ GFI Outlet
- Non-Marking “Gray Tracks”
- Turf Protection Pads (3 x 8 ft)
- Pole Dolly - 2,200 lb (997.9 kg) Capacity
- Pole Puller (includes chain)
- Hydraulic Tamp

Recommended safety equipment, available through Altec Supply, include a 5 lb fire extinguisher, triangular reflectors/road flares, fall protection equipment, outrigger pads, and 2 in front/rear receiver hitches.

Maximum Sheave Height	36.7 ft (11.2 m) 44.6 ft (13.6 m) with Optional Jib
Maximum Horizontal Reach	30.2 ft (9.2 m)
Maximum Lift Capacity	3,800 lb (1,724 kg)
Minimum Stowed Unit Width	34.5 in (87.6 cm)
Minimum Stowed Unit Length	18 ft (5.5 m)
Stowed Travel Height	6.9 ft (2.1 m)
Auger Diameter	18 in (45.7 cm)
Minimum Digging Depth	7 ft (2.1 m)
Digger Radius (min - max)	10.5 ft (3.2 m) - 19.5 ft (6 m)
Maximum Digging Motor Torque (Two Speed Hydraulic)	2,000 lb-ft (2,712 N-m)
Hydraulic Pump	16.5 GPM
Winch Rope Spec	90 ft (24.7 m) 1/2" minimum tensile 22,500 lb (10,206 kg)
Winch Line Pull	5,000 lb (2,268 kg)
Rotation	Continuous
Articulation	-6 to 75°
Rotation	Continuous
Unit Weight	8,900 lb (4,037 kg)
Kubota D902-E Diesel Engine	21.6 hp
Fuel Tank Capacity	6 gal (22.7 L) (operates 4.6 hrs @ full throttle)
Ground Contact Pressure	5.4 psi (.37 bar)
Cargo Deck with Anchor Points	34 x 45 x 39 in (86.4 x 114.3 x 99 cm)
Cargo Capacity	3,000 lb (1,360 kg)
Track Drive	2-speed, piston motor
Track Length	78 in (198 cm)
Track Extension (Tracks Extend Outward 9 in Each Side)	18 in (45.7 cm)
Maximum Drive Slope	15° Front to Back 15° Side to Side
Maximum Travel Speed	100 ft/min (1.8 k/hr) (high speed)

EXPANDABLE TRACKS

With an industry-leading minimum travel width of 34.5 inches, the DB37 is designed to fit through most 36 inch gates and other tight areas. The tracks are capable of extending 9 inches to provide the ability to traverse slopes up to 15 degrees side-to-side.



TIE-DOWN POINTS ON OUTRIGGERS

Tie-down points on all four of the fully hydraulic outriggers give the operator the ability to easily carry a pole up to 2,000 pounds in weight and 50 feet in length without having to unstow and maneuver the pole with the unit.



OPTIONAL COMBINED USE PLATFORM

The DB37 has an optional platform and material handling jib that gives the operator up to 38 feet of working height with the platform, in addition to simultaneously lifting up to 2,210 pounds with the material handling jib.



For more complete information on Altec products and services, visit us on the web at www.altec.com. Material and specifications are subject to change without notice. Featured units in photos may include optional features. Please contact an Altec representative for all available options. Altec® and the Altec logo are registered trademarks of Altec Inc. in the United States and various other countries and may not be used without permission.

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Quoted for: CITY OF ST CHARLES
Customer Contact: GARY SITTLER
Phone: / **Email:** gsittler@stcharlesil.gov

Quoted by: VICKIE BELL
Phone: / **Email:** vickie.bell@altec.com
Altec Account Manager: CLAY GRAVES

REFERENCE ALTEC MODEL

DB37	Backyard Digger Derrick - Requires TRA (Trailer) Selection	\$131,573
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(A.) SOURCEWELL OPTIONS ON CONTRACT (Unit)

1	DB37-TRA	MUST Quote feature required for BASE, 16K trailer	\$11,317
2			
3			
4			

(A1.) SOURCEWELL OPTIONS ON CONTRACT (General)

1	DEL-TRLR	Delivery other than standard drive away service per mile (delivery on trailer)	\$1,094
2			
3			
4			
5			
6			
7			
8			

SOURCEWELL OPTIONS TOTAL: \$143,984

(B.) OPEN MARKET ITEMS (Customer Requested)

1	UNIT		
2	UNIT & HYDRAULIC ACC	8 FT MATERIAL HANDLING JIB	\$1,435
3	BODY		
4	BODY & CHASSIS ACC		
5	ELECTRICAL		
6	FINISHING		
7	CHASSIS		
8	OTHER		

OPEN MARKET OPTIONS TOTAL: \$1,435

SUB-TOTAL FOR UNIT/BODY/CHASSIS: \$145,419

TOTAL FOR UNIT/BODY/CHASSIS: \$145,419

(C.) ADDITIONAL ITEMS (items are not included in total above)

1			
2			
3			
4			

Pricing valid for 45 days

NOTES

PAINT COLOR: White to match chassis, unless otherwise specified

WARRANTY: Standard Altec Warranty for Aerials and Derricks - One (1) year parts warranty One (1) year labor warranty Ninety (90) days warranty for travel charges (Mobile Service) Limited Lifetime Structural Warranty. Chassis to include standard warranty, per the manufacturer.

TO ORDER: To order, please contact the Altec Account Manager listed above.

CHASSIS: Per Altec Commercial Standard

DELIVERY: No later than 30-45 days ARO depending on stock availability, FOB Customer Location

TERMS: Net 30 days

BEST VALUE: Altec boasts the following "Best Value" features: Altec ISO Grip Controls for Extra Protection, Only Lifetime Warranty on Structural Components in Industry, Largest Service Network in Industry (Domestic and Overseas), Altec SENTRY Web/CD Based Training, Dedicated/Direct Gov't Sales Manager, In-Service Training with Every Order.

TRADE-IN: Equipment trades must be received in operational condition (as initial inspection) and DOT compliant at the time of pick-up. Failure to comply with these requirements, may result in customer bill-back repairs.

BUILD LOCATION: St. Joseph, MO

February 12, 2020
Our 91st Year

Ship To:
CITY OF ST CHARLES (IL)
2 EAST MAIN ST
SAINT CHARLES, IL 60174
US

Bill To:
CITY OF ST CHARLES (IL)
2 EAST MAIN ST
SAINT CHARLES, IL 60174
United States

Attn: Gary Sittler
Phone: 630-514-5157
Email: gsittler@stcharlesil.gov

Altec Quotation Number: 624967 - 1
Account Manager: Bradley Clay Graves
Technical Sales Rep: Vickie L Bell

<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
	<u>Unit</u>		
1.	Altec model DB37 hydraulic derrick, designed for mounting on a tracked carrier with a turntable winch, built in accordance with Altec's standard specifications and to include the following features:	1	
	<ul style="list-style-type: none"> A. Maximum sheave height is 36.7 feet (without jib), maximum sheave height is 44.6 feet (with jib), maximum horizontal reach is 30.2 feet, maximum digging radius is 19.5 feet, boom articulation is -6 degrees below horizontal to 75 degrees above horizontal. B. Winch, mounted at base end of the main boom - 3,800 pound working capacity (includes cable guides). C. Rope, material handling, 1/2 inch x 90 feet - installed, 3,800 pound rating. Includes eyes at both ends. D. Swivel hook/downhaul weight, 2.75 ton capacity. E. Continuous rotation is given by worm gear drive rotation, equipped with extended shaft for manual rotation. F. Hydraulic auger release. G. Pendant drive controls installed include proportional, independent drive controls for each track, track extend/retract, hi/low speed, and emergency stop. H. Drive control operation from radio or pendant controller. I. Start/stop from radio controls and at lower controls. J. Five (5) function Hydraulic Overload Protection (HOP) system operates from lower control station and radio remote. Visible load indicator gauge at operators platform. K. Outrigger/Unit Selector Control: Allows operator to divert hydraulic oil from machine circuit for outrigger operation. This reduces the potential for inadvertent outrigger movement during machine operation if outrigger controls are bumped. L. Outrigger motion alarm: Provides audible alarm when any of the outriggers are being hydraulically actuated. M. Outrigger/boom interlock system, prevents operation of unit until all outriggers are lowered. N. Tool circuit below rotation: two way, adjustable flow up to 6 GPM @ 2,000 psi. Tool circuit above rotation: adjustable flow up to 4.5 GPM @ 2,000 psi. 		

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UTILITY EQUIPMENT AND BODIES SINCE 1929

<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
	<ul style="list-style-type: none"> O. 23.5 hp diesel engine and direct drive pump provide hydraulic power for carrier and unit operation. P. Fuel tank, installed, 6 gallon capacity. Q. Hydraulic oil reservoir, 16.8 gallon capacity. R. Pole carrier, one D ring installed on each outrigger leg (2,000 lb capacity). S. Carrier, track driven, skid-steer with retractable tracks and 2 speed hydraulic piston motors providing max travel speed of 100 feet/minute. Tracks have a minimum spread of 34 inches and maximum spread of 46.8 inches. Maximum drive slopes while tracks are extended are 15 degrees side to side and 15 degrees front to back. Maximum drive slopes while tracks are retracted are 5 degrees side to side and 15 degrees front to back. T. Insulated, 46 kV and below. U. Painted white with Altec's powder coat paint process which is highly resistant to chipping, scratching, abrasion, and corrosion. Paint is electro-statically applied to the inside as well as outside of fabricated parts then high temperature cured prior to assembly ensuring maximum coverage and protection. V. Digger derrick conforms to ANSI A10.31-2006. W. This product is designed and manufactured in facilities that are certified to meet ISO 9001 requirements. X. ANSI Z535 Safety and Instructional Signs, installed. Y. Two (2) Operators and Maintenance/Parts Manuals. 		
2.	Combined Use, Platform/Material Handling	1	
3.	Digger function, two speed, fully proportional, 2,000 ft-lbs (2710 N-m) - includes all of the components necessary to operate digger (installed).	1	
4.	Feeder Tubes: Addition of feeder tubes will give a dedicated line to the digger preventing the operator from having to disconnect the digger each time after use.	1	
5.	Altec Electronic Side Load Protection (eSLP) - includes indicator gauge and lamp	1	
6.	Radio Remote Lower Controls (Traditional) (DB37)	1	
7.	Radio Remote Control Layout: COUNTER-CLOCKWISE, push lever to Right rotates boom Counter-Clockwise	1	
8.	Platform docking station for radio controls.	1	
9.	No Derrick Tong Protectors	1	
10.	Outriggers - Four (4) hydraulic operated radial outriggers with pivot shoes. Outriggers are equipped with D-rings to carry up to a 2,000 LB (907 kg) pole on either side of unit, combined total not to exceed 3,000 lbs. Outrigger spread is 8' 8" at front of machine and 10' 8" at the rear of machine. The distance from front outrigger shoe to rear outrigger shoe at maximum spread setup is 10' 8".	1	
11.	Jib - Fiberglass, 8 foot material handling (one piece). Manual articulation accomplished utilizing five (5) pinning positions. Includes boom mounting bracket and hardware, pins, and trailer bracket.	1	
12.	Platform - Fiberglass, pin-on, 24 x 24 x 40 nominal. Includes interior/exterior platform access step and mounting bracket. 300 pound platform capacity, platform can be attached to either side of bracket, provides up to 40 foot working height. (Note: Requires radio remote controls and docking station).	1	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
13.	Platform cover - Soft vinyl, 24 x 24 inches (610 x 610 mm).	1	
14.	Platform liner - for single, one-man, side mounted fiberglass platform (24 x 24 x 40). 50kV.	1	
15.	Hydraulic Tilting Pole Guides with hydraulic open and close. Provides 60 degrees of articulation.	1	
16.	16,000 LB GVWR Steel, Tandem Axle Trailer, Load Trail 16K-CH8018082_19017, to Include:	1	
	A. Full powder coat black paint, 2 x 6 treated wood floor, and 2 foot diamond plate dovetail		
	B. 10 Inch Channel Frame		
	C. 80 inch Bed Width x 18 Feet Long. 102 inches overall width		
	D. 5 foot trailer tongue		
	E. Two (2) 8,000 Lb Dexter Spring Axles, Non Oil Bath		
	F. Four (4) Tires, 215-75R-175H- Single 17.5 - 8 Lug		
	G. Safety Chains: 18,800 LB 5/16 x 28 G#80 with slip hook and latch		
	H. Electric brakes with break-a-way & charger		
	I. Enclosed electrical wiring, LED lighting and 6-way round electric plug wired to SAE standards		
	J. Heavy duty full width, split center, spring assist loading ramps with support legs		
	K. 12K spring loaded drop leg jack		
	L. Flat Mounting Plate with multiple hole position for pintle adjustment, 3 inch pintle ring		
	M. Front tongue mount tool box with locking latch, 22 inches tall		
	N. Four (4) D-ring tie downs welded to trailer frame and four (4) heavy duty nylon ratchet tie down straps		
	O. Outrigger pad and wheel chock holders		
17.	Black tracks, standard tread.	1	
	(Note: By nature of the material, rubber will crack due to UV and ozone degradation with age. To minimize this, store tracks or tacked equipment indoors or cover the track to avoid excessive sunlight exposure.)		
18.	Cargo Platform - Maximum weight capacity of 3,000 lbs.	1	
19.	Fall protection system - to include one body harness and deceleration type lanyard.	1	
20.	Additional Unit Option Altec Nylon Outrigger Pad, Yellow, 18 x 18 x 0.63 Inch, With Handle.	4	
21.	Additional Unit Option Install outrigger pad holder to the front of the boom rest. Need to be able to access outrigger pads from both curbside and streetside. Include a lip at the bottom of holder to retain pads. Include a pendulum retainer in center on each side of pad holder.	1	
<u>Unit & Hydraulic Acc.</u>			
22.	Dirt Auger, 18 Inch DIA, 2 Inch Hex X 59 Inch L, Dual Flight (Painted Black)	1	
23.	HVI-22 Hydraulic Oil (Standard).	25	

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<u>Item</u>	<u>Description</u>	<u>Qty</u>	<u>Price</u>
<u>Body and Chassis Accessories</u>			
24.	Rubber Wheel Chocks, (1 pair), with metal hair pin handle.	1	
25.	Triangular Reflector Kit, Shipped Loose	1	
26.	5 LB Fire Extinguisher With Light Duty Bracket, Shipped Loose	1	
<u>Finishing Details</u>			
27.	Powder Coat Unit Altec White	1	
28.	Apply Non-Skid Coating to all walking surfaces	1	
29.	English Safety And Instructional Decals	1	
30.	Dielectric test unit according to ANSI requirements.	1	
31.	Stability test unit according to ANSI requirements.	1	
32.	Completed Test Forms To Be Included In The Manual Pouch	1	
	A. Stability Test Form		
	B. Dielectric Test Form (For Insulated Units)		
33.	Focus Factory Build	1	
34.	Delivery Of Completed Unit	1	
35.	As Built Electrical And Hydraulic Schematics To Be Included In The Manual Pouch	1	
36.	FA Unit Designator - DB37	1	
37.	Stock Unit	1	
<u>Additional Pricing</u>			
38.	Standard Altec Warranty: One (1) year parts warranty, one (1) year labor warranty, ninety (90) days warranty for travel charges, limited lifetime structural warranty	1	

Unit / Body / Chassis Total	145,419.00
FET Total	0.00
Total	145,419.00

Altec Industries, Inc.

BY _____

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Vickie L Bell

Notes:

**City of St. Charles, Illinois
Resolution No. _____**

A Resolution Authorizing the Mayor and the City Clerk of the City of St. Charles to Approve the Award of One (1) 2020 Altec Model DB37 Hydraulic Derrick “Backyard” Machine and Sell the replaced Altec Model DB30 unit number 2184 and its trailer unit number 2183

**Presented & Passed by the
City Council on _____, 2020**

BE IT RESOLVED by the Mayor and City Council of the City of St. Charles, Kane and DuPage Counties, Illinois, that the Mayor and City Clerk be and the same are hereby authorized to approve the award of one (1) 2020 Altec Model DB37 Hydraulic Derrick “Backyard” Machine and Sell the replaced Altec Model DB30 unit number 2184 and its trailer unit number 2183.

PRESENTED to the City Council of the City of St. Charles, Illinois, this _____ day of April, 2020

PASSED by the City Council of the City of St. Charles, Illinois this _____ day of April, 2020

APPROVED by the Mayor of the City of St. Charles, Illinois, this _____ day of April, 2020

Raymond P. Rogina, Mayor

ATTEST:

City Clerk

COUNCIL VOTE:

Ayes:

Nays:

Absent:

Abstain: