

COUNCIL WORKSHOP ITEM

ITEM: Equipment Purchase – Backhoe-End Loader
DATE: January 10, 2002
PREPARED BY: John J. Bajor, Jr., Public Works Director
Stan Balicki, Support Services Manager
PURPOSE: Authorize Purchase
BID AMOUNT: \$63,103 **ACCOUNT: 530.960.0000.5836**
BUDGET AMOUNT: \$66,000

DISCUSSION:

The use of a backhoe-end loader is integral to the daily operation of the Public Works Department's Drainage Division. It is used for roadside ditching, inlet/manhole replacement, storm sewer installation, creek cleaning, and loading vehicles with materials. The current backhoe was purchased in 1984, and is at the end of its useful life. It is presently in need of about \$5,000 in repairs to bring it to the manufacturer's operating specification, for example. Further, the overall condition of the machine is such that it will soon be placed out of service due to safety concerns.

Village staff opened two sealed bids for the proposed backhoe-end loader on January 3, 2002. Please note that three sealed bid invitations went out, and that the invitation to bid was advertised in accordance with accepted procedures. The low bid response was due to the fact that the machines are sold and serviced through territorial regions. The recommended piece of equipment is a 2002 Caterpillar 430D. Based on a review of the bids submitted, a recommendation for purchase is made as follows:

Patten Tractor & Equipment Co. \$63,103 (Net price after trade-in.)
635 W. Lake St.
Elmhurst, IL 60126

Other pricing was received from:

Roland Machinery Co. \$71,040 (Net price after trade-in.)
220 E. Frontage Rd.
Bolingbrook, IL 60440

ATTACHMENT:

Specifications and bid results are attached.

RECOMMENDATION:

Staff recommends that the Village Council consider awarding the purchase of this piece of equipment to Patten Tractor & Equipment Company in the amount of \$63,103.

General: The backhoe/loader shall be regular production model for which published specifications are available. Machine modifications to meet the operational requirements of this specification shall be limited to the manufacturer's published standard and optional equipment. The unit shall be completely serviced and ready for use prior to inspection and delivery. Design shall be current or within the last twelve (12) months. Model year 2001/2002 Four Wheel Drive.

COMPLY
 Yes No

1.0 Electrical:

- | | | | |
|---|-------------------------------------|-------------------------------------|------------|
| A) 90 amp alternator | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B) Backup alarm | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C) Four (4) work lights forward | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D) Four (4) rearward lights and adjustable | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E) Brake lights, turn signals & hazard lights | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F) Two (2) Heavy Duty batteries, 700 CCA each, and maintenance free | <input type="checkbox"/> | <input checked="" type="checkbox"/> | One 850CCA |
| G) 12 volt electrical system with 12 volt power port | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| H) Warning amber strobe light on top of cab | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| I) Audible fault alarm system | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| J) All electrical connectors sealed and moisture free, color-coded and numbered wires | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

2.0 Operators Compartment:

- | | | |
|---|-------------------------------------|--------------------------|
| A) Tachometer | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B) Fuel level gauge | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C) Engine coolant temperature gauge | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| D) Hydraulic oil temperature gauge | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| E) Torque converter oil temperature gauge | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| F) Alternator warning indicator | <input type="checkbox"/> | <input type="checkbox"/> |
| G) Coolant temperature warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| H) Parking brake warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| I) Engine oil pressure warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| J) Transmission oil temperature warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| K) Service brake warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| L) Heater with variable fan and temperature control | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| M) Window defrosters | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| N) Interior rearview mirror | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| O) Lighted gauges | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| P) Rear fenders | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Village of Downers Grove
Public Works Department
Backhoe / Loader Detailed Specifications

COMPLY

- | | Yes | No | |
|---|-------------------------------------|-------------------------------------|------------------|
| Q) Rollover Protection Structure (ROPS) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| R) Falling Object Protection Structure (FOPS) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| S) Tilt steering | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| T) Hand and foot throttle | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| U) Air suspension cloth seat with adjustable flip up arm | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Not Air |
| V) Radio ready with built in speakers and antenna | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| W) Retractable 3" seatbelt | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| X) Two (2) cab doors – when opened, flush to cab | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Not Flush to Cab |
| Y) Side windows open 180* on cab and door | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Z) Front and Rear Wipers and Washers | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| AA) HVAC system with choice of fresh outside air or recirculated air | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| BB) Hour Meter shall be functional with key in off position | <input type="checkbox"/> | <input checked="" type="checkbox"/> | ELECTRONIC |
| CC) Operators compartment shall be flat laminated glass on front and windshield tempered glass on all other windows | <input checked="" type="checkbox"/> | <input type="checkbox"/> | NOT FLAT |

3.0 Hydraulics & Controls:

1) *Front Loader*

- | | | | |
|---|-------------------------------------|--------------------------|---------------|
| A) Single joystick control lever with transmission neutralizer switch | <input checked="" type="checkbox"/> | <input type="checkbox"/> | SEE ENCLOSURE |
| B) Loader arms shall be divergent, widening at bucket | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C) Return to dig | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D) Loader shall have positive down pressure sufficient to lift tractor front end off level ground | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E) Bucket breakout force shall be no less than 10,000 lbs. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 13,825 LBS |
| F) 1.5 cubic yard general purpose bucket with two piece reversible auxiliary cutting edges | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| G) Loader shall have a lift capacity of no less than 6,000 lbs. at full height | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8,925 LBS |
| H) Loader shall be equipped with a lift cylinder brace to hold loader arms in raised position | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

2) *Backhoe*

- | | | | |
|---|-------------------------------------|-------------------------------------|---------------|
| A) Center pivot type with hydraulic stabilizers | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B) Backhoe shall come standard with curved boom to work in confined spaces and reach over obstacles | <input type="checkbox"/> | <input checked="" type="checkbox"/> | SEE ENCLOSURE |
| C) Backhoe shall have an extendable stick, reaching from swing pivot when retracted shall be no less than 20 ft and when extended no less than 24 ft. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| D) Boom and stick shall be weld repairable | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Village of Downers Grove
Public Works Department
Backhoe / Loader Detailed Specifications

COMPLY
Yes No

- E) Extendable stick shall be self-lubricating and require no grease
- F) Bucket shall have a minimum break out force of 14,000 lbs. 14,685 LBS
- G) Backhoe is to have hydraulic operated (excavator) pilot controls **SEE ENCLOSURE**
- H) Reversible stabilizer pads
- I) Stabilizer shall have lock valves
- J) Bucket linkage to have lift eye

4.0 Axles/Brakes:

- A) Rear axle has foot operated differential lock (100% lockup on the go)
- B) Front wheel drive with driveshaft guard
- C) Front axle oscillation sealed in oil
- D) Front wheel driveshaft yokes sealed
- E) Sealed king pin joints
- F) Brakes shall be inboard oil immersed, hydraulically actuated
- G) Foot operated brake pedal shall be able to interlock for roading
- H) Parking/secondary brakes shall be independent of service brake system *Parking brake acts on service brakes and automatically disengages transmission **SEE ENCLOSURE** *Ensured Safety

5.0 Powertrain:

- A) Engine shall be minimum 92 net H.P. diesel 98 Net H.P.
- B) Thermal starting aid for cold weather operation without using ether
- C) All filters to be vertical spin-on
- D) Engine to be protected to a minimum of -34* F
- E) Engine oil service interval every 500 hours 34.3 Gal
- F) Minimum 30 gallon fuel tank
- G) Fuel/ Water separator
- H) 12 volt block heater
- I) Transmission to be made by machine manufacturer
- J) Unit shall have fully synchronized power shuttle transmission
- K) Transmission shall have an electrical neutral lock switch
- L) Unit shall have a top travel speed of no less than 20 mph 23.5 M.P.H.

6.0 Hydraulic System:

- A) Machine shall have variable displacement load sensing, axial piston pump
- B) Hydraulic pump shall be rated at 43 GPM at 2,200 RPM
- C) Maximum hydraulic pump shall be at least 3,300 PSI for both backhoe and loader

COMPLY
Yes No

- D) Machine must be able to reach maximum lifting capacity at any engine speed
- E) Hose fitting shall have O-ring face seal connections
- F) Unit shall have hydrostatic steering

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

7.0 Tires:

- A) Front tires: radial design
- B) Rear tires: radial design

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

8.0 Structures:

- A) 1250 lbs. counterweight minimum
- B) Impact absorbing grill
- C) Machine weight minimum 19,000 lbs.
- D) Rear fenders
- E) Transportation tie downs
- F) Exterior mirrors
- G) Tool box – exterior mounted

<input type="checkbox"/>	<input checked="" type="checkbox"/>	1,035 LBS
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	

9.0 Warranty

- A) Minimum of 12 months or 1500 hours full machine

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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10.0 Manuals & Special Requirements:

- A) Two (2) operators manuals
- B) Two (2) parts manuals
- C) Backhoe loader shall meet all OSHA & EPA requirements in effect of date of bid opening and be furnished with lead-free paint
- D) 24 Hour parts/service request
- E) Color: manufacturer standard color

<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	See Enclosure
<input checked="" type="checkbox"/>	<input type="checkbox"/>	

11.0 Options Bid Separately

		COMPLY	
		Yes	No
A) Wain-roy swinger coupler		<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) Extended warranty – state length and price	P.T. 60 Months/ 5000 HRS	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C) Powershift transmission – auto shift		<input checked="" type="checkbox"/>	<input type="checkbox"/>
D) Proportional control for loader which operates auxiliary functions		<input checked="" type="checkbox"/>	<input type="checkbox"/>
E) Reversible blade for loader (snow removal operations)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
F) Ride control system (reduces machine loping when roading)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
G) 36" Heavy Duty bucket with teeth (wain-roy quick disconnect if purchased with wain-roy option)		<input checked="" type="checkbox"/>	<input type="checkbox"/>

12.0 Training:

A) One four-hour period for operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) One four-hour period for mechanical personnel	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**IV. BID CONTRACT FORM
CONTRACT 2002**

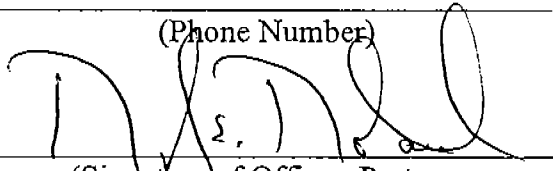
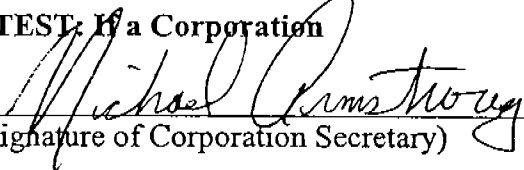
The undersigned proposes to furnish at the prices indicated and conforming to the attached Village of Downers Grove specifications, the following: **2001/02 Backhoe/Loader**, F.O.B. 700 West Curtiss, Downers Grove, IL 60515, within 30 days of award of contract

<u>Description</u>	<u>Price</u>
2001/02 Backhoe/Loader (not including Section II.0)	\$ <u>65,854.00</u>
Make: <u> Komatsu</u>	
Model No.: <u> WB150-2</u>	
Year of Manufacture: <u> 2002</u>	
TRADE-IN 1984 John Deere 510B Backhoe/Loader	\$ <u>10,000.00</u>
Net price after trade-in	\$ <u>55,854.00</u>
OPTIONS:	
A) Wain-roy swinger coupler	\$ <u>3,474.00</u>
B) Extended warranty 60 Month/5000 PT Warranty	\$ <u>1,257.00</u>
C) Powershift transmission – auto shift	\$ <u>1,532.00</u>
D) Proportional control for loader which Operates auxiliary functions	\$ <u>672.00</u>
E) Reversible blade for loader (snow removal operations Hyd. Angle (Left&Right))	\$ <u>6,014.00</u>
F) Ride control system (reduces machine loping when roading)	\$ <u>1,184.00</u>
G) 36" Heavy Duty bucket with teeth (wain-roy quick disconnect if purchased with wain-roy option)	\$ <u>1,053.00</u>

IV.
BID/CONTRACT FORM

BACKHOE/LOADER

Entire Block Must Be Complete When Bid is Submitted To Be Considered For Award

Date of Bid: <u>January 3, 2002</u>	CONTRACTOR:
<u>630-739-9443</u>	<u>Roland Machinery Company</u> (Company Name)
(Fax Number, if available)	<u>220 E. Frontage Road</u> (Street)
<u>jmallory@rolandmachinery.com</u>	<u>Bolingbrook Illinois 60440</u> (City) (State) (Zip)
(E-Mail address, if available)	<u>630-739-7474</u> (Phone Number)
Contact Name: <u>Jim Thornton</u>	 (Signature of Officer, Partner Or Sole Proprietor)
<u>800-826-9608</u> (24-Hour Telephone)	<u>Raymond E. Roland</u> (Print Name)
ATTEST: If a Corporation  (Signature of Corporation Secretary)	<u>January 3, 2002</u> (Date)
<u>Secretary</u> (Title)	

ATTEST:

(Village Clerk Signature)

(Date)

VILLAGE OF DOWNERS GROVE

(Authorized Signature)

(Title)

(Date)

In compliance with the specifications, the undersigned offers and agrees, if this bid is accepted within 90 calendar days from the date of opening, to furnish any or all of the services upon which prices are quoted, at the price set opposite each item, delivered at the designated point within the time specified above.

THIS BID, WHEN ACCEPTED AND SIGNED BY AN AUTHORIZED SIGNATORY OF THE VILLAGE OF DOWNERS GROVE SHALL BECOME A CONTRACT BINDING UPON BOTH THE PERSON, PARTNERSHIP OR CORPORATION, TO SUPPLY OR PERFORM AS SPECIFIED AND UPON THE VILLAGE TO ACCEPT THE PRODUCT OR SERVICE.

General: The backhoe/loader shall be regular production model for which published specifications are available. Machine modifications to meet the operational requirements of this specification shall be limited to the manufacturer's published standard and optional equipment. The unit shall be completely serviced and ready for use prior to inspection and delivery. Design shall be current or within the last twelve (12) months. Model year 2001/2002 Four Wheel Drive.

COMPLY
Yes No

1.0 Electrical:

- | | | |
|---|-------------------------------------|--------------------------|
| A) 90 amp alternator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B) Backup alarm | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C) Four (4) work lights forward | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| D) Four (4) rearward lights and adjustable | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| E) Brake lights, turn signals & hazard lights | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| F) Two (2) Heavy Duty batteries, 700 CCA each, and maintenance free | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| G) 12 volt electrical system with 12 volt power port | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| H) Warning amber strobe light on top of cab | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| I) Audible fault alarm system | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| J) All electrical connectors sealed and moisture free, color-coded and numbered wires | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

2.0 Operators Compartment:

- | | | |
|---|-------------------------------------|--------------------------|
| A) Tachometer | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B) Fuel level gauge | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C) Engine coolant temperature gauge | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| D) Hydraulic oil temperature gauge | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| E) Torque converter oil temperature gauge | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| F) Alternator warning indicator | <input type="checkbox"/> | <input type="checkbox"/> |
| G) Coolant temperature warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| H) Parking brake warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| I) Engine oil pressure warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| J) Transmission oil temperature warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| K) Service brake warning indicator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| L) Heater with variable fan and temperature control | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| M) Window defrosters | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| N) Interior rearview mirror | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| O) Lighted gauges | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| P) Rear fenders | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Village of Downers Grove
Public Works Department
Backhoe / Loader Detailed Specifications

		COMPLY	
		Yes	No
Q) Rollover Protection Structure (ROPS)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
R) Falling Object Protection Structure (FOPS)		<input checked="" type="checkbox"/>	<input type="checkbox"/>
S) Tilt steering		<input checked="" type="checkbox"/>	<input type="checkbox"/>
T) Hand and foot throttle		<input checked="" type="checkbox"/>	<input type="checkbox"/>
U) Air suspension cloth seat with adjustable flip up arm		<input checked="" type="checkbox"/>	<input type="checkbox"/>
V) Radio ready with built in speakers and antenna		<input checked="" type="checkbox"/>	<input type="checkbox"/>
W) Retractable 3" seatbelt		<input checked="" type="checkbox"/>	<input type="checkbox"/>
X) Two (2) cab doors – when opened, flush to cab		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Y) Side windows open 180* on cab and door		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Z) Front and Rear Wipers and Washers		<input checked="" type="checkbox"/>	<input type="checkbox"/>
AA) HVAC system with choice of fresh outside air or recirculated air		<input checked="" type="checkbox"/>	<input type="checkbox"/>
BB) Hour Meter shall be functional with key in off position		<input checked="" type="checkbox"/>	<input type="checkbox"/>
CC) Operators compartment shall be flat laminated glass on front and windshield tempered glass on all other windows		<input checked="" type="checkbox"/>	<input type="checkbox"/>

3.0 Hydraulics & Controls:

1) *Front Loader*

A) Single joystick control lever with transmission neutralizer switch		<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) Loader arms shall be divergent, widening at bucket		<input checked="" type="checkbox"/>	<input type="checkbox"/>
C) Return to dig		<input checked="" type="checkbox"/>	<input type="checkbox"/>
D) Loader shall have positive down pressure sufficient to lift tractor front end off level ground		<input checked="" type="checkbox"/>	<input type="checkbox"/>
E) Bucket breakout force shall be no less than 10,000 lbs.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
F) 1.5 cubic yard general purpose bucket with two piece reversible auxiliary cutting edges		<input checked="" type="checkbox"/>	<input type="checkbox"/>
G) Loader shall have a lift capacity of no less than 6,000 lbs. at full height		<input checked="" type="checkbox"/>	<input type="checkbox"/>
H) Loader shall be equipped with a lift cylinder brace to hold loader arms in raised position		<input checked="" type="checkbox"/>	<input type="checkbox"/>

2) *Backhoe*

A) Center pivot type with hydraulic stabilizers		<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) Backhoe shall come standard with curved boom to work in confined spaces and reach over obstacles		<input checked="" type="checkbox"/>	<input type="checkbox"/>
C) Backhoe shall have an extendable stick, reaching from swing pivot when retracted shall be no less than 20 ft and when extended no less than 24 ft.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
D) Boom and stick shall be weld repairable		<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMPLY
Yes No

- | | | |
|---|-------------------------------------|--------------------------|
| E) Extendable stick shall be self-lubricating and require no grease | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| F) Bucket shall have a minimum break out force of 14,000 lbs. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| G) Backhoe is to have hydraulic operated (excavator) pilot controls | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| H) Reversible stabilizer pads | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| I) Stabilizer shall have lock valves | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| J) Bucket linkage to have lift eye | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

4.0 Axles/Brakes:

- | | | |
|---|-------------------------------------|--------------------------|
| A) Rear axle has foot operated differential lock
(100% lockup on the go) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B) Front wheel drive with driveshaft guard | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C) Front axle oscillation sealed in oil | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| D) Front wheel driveshaft yokes sealed | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| E) Sealed king pin joints | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| F) Brakes shall be inboard oil immersed, hydraulically actuated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| G) Foot operated brace pedal shall be able to interlock for roading | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| H) Parking/secondary brakes shall be independent of service
brake system | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

5.0 Powertrain:

- | | | |
|---|-------------------------------------|--------------------------|
| A) Engine shall be minimum 92 net H.P. diesel | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B) Thermal starting aid for cold weather operation without
using ether | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C) All filters to be vertical spin-on | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| D) Engine to be protected to a minimum of -34* F | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| E) Engine oil service interval every 500 hours | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| F) Minimum 30 gallon fuel tank | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| G) Fuel/ Water separator | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| H) 12 volt block heater | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| I) Transmission to be made by machine manufacturer | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| J) Unit shall have fully synchronized power shuttle transmission | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| K) Transmission shall have an electrical neutral lock switch | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| L) Unit shall have a top travel speed of no less than 20 mph | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

6.0 Hydraulic System:

- | | | |
|--|-------------------------------------|--------------------------|
| A) Machine shall have variable displacement load sensing,
axial piston pump | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B) Hydraulic pump shall be rated at 43 GPM at 2,200 RPM | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C) Maximum hydraulic pump shall be at least 3,300 PSI for
both backhoe and loader | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

COMPLY
 Yes No

- D) Machine must be able to reach maximum lifting capacity at any engine speed
- E) Hose fitting shall have O-ring face seal connections
- F) Unit shall have hydrostatic steering

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

7.0 Tires:

- A) Front tires: radial design
- B) Rear tires: radial design

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

8.0 Structures:

- A) 1250 lbs. counterweight minimum
- B) Impact absorbing grill
- C) Machine weight minimum 19,000 lbs.
- D) Rear fenders
- E) Transportation tie downs
- F) Exterior mirrors
- G) Tool box – exterior mounted

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

9.0 Warranty

- A) Minimum of 12 months or 1500 hours full machine

<input checked="" type="checkbox"/>	<input type="checkbox"/>
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10.0 Manuals & Special Requirements:

- A) Two (2) operators manuals
- B) Two (2) parts manuals
- C) Backhoe loader shall meet all OSHA & EPA requirements in effect of date of bid opening and be furnished with lead-free paint
- D) 24 Hour parts/service request
- E) Color: manufacturer standard color

<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

11.0 Options Bid Separately

	COMPLY	
	Yes	No
A) Wain-roy swinger coupler	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) Extended warranty – state length and price	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C) Powershift transmission – auto shift	<input checked="" type="checkbox"/>	<input type="checkbox"/>
D) Proportional control for loader which operates auxiliary functions	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E) Reversible blade for loader (snow removal operations)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
F) Ride control system (reduces machine loping when roading)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G) 36" Heavy Duty bucket with teeth (wain-roy quick disconnect if purchased with wain-roy option)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

12.0 Training:

A) One four-hour period for operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B) One four-hour period for mechanical personnel	<input checked="" type="checkbox"/>	<input type="checkbox"/>

III.
Village of Downers Grove
Public Works Department
Backhoe / Loader Detailed Specifications

Please use this section to provide a more detailed explanation of equipment bid.

A. WAIN ROY SWINGER COUPLER INCLUDES COUPLER, EXTRA BANK

STACK VALVE, MEDIUM PRESSURE LINES TO THE COUPLER AND LABOR TO

INSTALL.

B. EXTENDED POWERTRAIN WARRANTY IS FOR 5 YEARS OR 5,000 HOURS

WHICHEVER OCCURS FIRST.

E. HENKE MODEL LB 30R10 REVERSIBLE SNOWPLOW - DIMENSIONS, 10'

WIDTH, 30" HEIGHT, 3/16" THICKNESS, EXTERNAL COMPRESSION

SPRING TRIPS, HYDRAULIC POWER REVERSE.

**IV. BID CONTRACT FORM
CONTRACT 2002**

The undersigned proposes to furnish at the prices indicated and conforming to the attached Village of Downers Grove specifications, the following: **2001/02 Backhoe/Loader**, F.O.B. 700 West Curtiss, Downers Grove, IL 60515, within 30 days of award of contract

<u>Description</u>	<u>Price</u>
2001/02 Backhoe/Loader (not including Section II.0)	\$ <u>60,626</u>
Make: <u>Caterpillar</u>	
Model No.: <u>430D</u>	
Year of Manufacture: <u>2002</u>	
TRADE-IN 1984 John Deere 510B Backhoe/Loader	\$ <u>16,000</u>
Net price after trade-in	\$ <u>44,626</u>
OPTIONS:	
A) Wain-roy swinger coupler	\$ <u>5,271</u>
B) Extended warranty	\$ <u>1,340</u>
C) Powershift transmission – auto shift	\$ <u>2,315</u>
D) Proportional control for loader which Operates auxiliary functions	\$ <u>634</u>
E) Reversible blade for loader (snow removal operations)	\$ <u>6,998</u>
F) Ride control system (reduces machine loping when roading)	\$ <u>888</u>
G) 36" Heavy Duty bucket with teeth (wain-roy quick disconnect if purchased with wain-roy option)	\$ <u>1,031</u>

IV.
BID/CONTRACT FORM

BACKHOE/LOADER

Entire Block Must Be Complete When Bid is Submitted To Be Considered For Award

Date of Bid: <u>1-2-02</u>	CONTRACTOR:
<u>630-279-0121</u> (Fax Number, if available)	<u>Patten Tractor & Equipment Co</u> (Company Name)
<u>(E-Mail address, if available)</u>	<u>635 W. Lake St</u> (Street)
Contact Name: <u>CHRIS BURNS</u>	<u>Elmhurst IL 60126</u> (City) (State) (Zip)
<u>630-284-4040</u> <u>Chris Burns</u> (24-Hour Telephone)	<u>630 279-4400</u> (Phone Number)
ATTEST: If a Corporation	<u>Richard G. Nagode</u> (Signature of Officer, Partner Or Sole Proprietor)
<u>[Signature]</u> (Signature of Corporation Secretary)	<u>Richard G. Nagode</u> (Print Name)
<u>Secretary</u> (Title)	<u>1-2-02</u> (Date)

ATTEST:

VILLAGE OF DOWNERS GROVE

(Village Clerk Signature)

(Date)

(Authorized Signature)

(Title)

(Date)

In compliance with the specifications, the undersigned offers and agrees, if this bid is accepted within 90 calendar days from the date of opening, to furnish any or all of the services upon which prices are quoted, at the price set opposite each item, delivered at the designated point within the time specified above.

THIS BID, WHEN ACCEPTED AND SIGNED BY AN AUTHORIZED SIGNATORY OF THE VILLAGE OF DOWNERS GROVE SHALL BECOME A CONTRACT BINDING UPON BOTH THE PERSON, PARTNERSHIP OR CORPORATION, TO SUPPLY OR PERFORM AS SPECIFIED AND UPON THE VILLAGE TO ACCEPT THE PRODUCT OR SERVICE.