# Aitkin County Board of Commissioners Request for County Board Action/Agenda Item Cover Sheet



To: Chairperson, Aitkin County Board of Commissioners Date: 12-31-12
Via: Patrick Wussow, County Administrator
From: John Welle
Title of Item:
Equipment Purchase – Motor Graders
Requested Meeting Date: 1-08-13 Estimated Presentation Time: 15 minutes
Presenter:John Welle
Type of Action Requested (check all that apply)
For info only, no action requested Approve under Routine Business
For discussion only with possible future action Adopt Ordinance Revision
Let/Award Bid or Quote (attach copy of basic bld/quote specs or summary of complex specs, each bid/quote received & bid/quote
comparison)  X Approve/adopt proposal by motion Approve/adopt proposal by resolution (attach draft resolution)
Authorize filling vacant staff position
Request to schedule public hearing or sale Other (please list)
Request by member of the public to be heard
Item should be addressed in closed session under MN Statute
Fiscal Impact (check all that apply)
Is this item in the current approved budget? X Yes X No (attach explanation)
What type of expenditure is this? Operating _C Capital Other (attach explanation)
Revenue line account # that funds this item is: 5001
Expenditure line account # for this item is:6600
Staffing Impact (Any yes answer requires a review by Human Resources Manager before going to the board)
Duties of a department employee(s) may be materially affected YesNo
Applicable job description(s) may require revisionYes No
Item may impact a bargaining unit agreement or county work policyYes No  Item may change the department's authorized staffing levelYes No
Supporting Attachment(s)
X_ Memorandum Summary of Item Copy of applicable county policy and/or ordinance (excerpts acceptable)
Copy of applicable state/federal statute/regulation (excerpts acceptable)
Copy of applicable contract and/or agreement
Original bid spec or quote request (excluding complex construction projects)
Bids/quotes received (excluding complex construction projects, provide comparison worksheet)
X Bid/quote comparison worksheet
Draft County Board resolution
Plat approval check-list and supporting documents
Copy of previous minutes related to this issue
Other supporting document(s) (please list)

## **AITKIN COUNTY COMMISSIONER'S MEMO**

TO:

Aitkin County Commissioners

Patrick Wussow, County Administrator

FROM:

John Welle

DATE:

January 2, 2013

### Regular Agenda Item:

Equipment Purchase – Motor Graders

#### **Summary:**

Two of our fleet of eight motor graders are scheduled to be replaced in our 2013 Capital Equipment Replacement Program. These motor graders were acquired in 1987 and 1989 and have nearly 23,000 hours on each machine.

Utilizing Contract Release M-439(5) of the Cooperative Purchasing Venture program offered through the State of Minnesota Department of Administration, options and pricing were researched for Caterpillar machines offered by Zeigler, Inc. and John Deere machines offered by RDO Equipment. Note that options and pricing were also available for Volvo and Case machines, however, these machines were not considered for this purchase.

Enclosed is a worksheet that shows the cost comparison for the Caterpillar 120M2, Caterpillar 120M AWD, John Deere 670G, and John Deere 672G. Note that the Caterpillar 120M AWD and John Deere 672G are the same machine as the other corresponding model with the addition of all-wheel drive instead of four-wheel drive.

Line 3 of the worksheet shows the comparative cost per machine after trade-in allowance for the four models listed. This comparative cost was based on the listed required specifications that were developed for this purchase and the sealed bid for trade-in values submitted by the two vendors. From this line, note that the Caterpillar 120M AWD is the lowest cost, largely due to the fact that Caterpillar has a surplus of this package machine and is offering trade-in allowance incentives. The total cost per machine for the Caterpillar 120M AWD is \$150,910 compared to a cost of \$155,442 for the John Deere 670G, which is the next lowest in cost.

Based on this comparison, the purchase of two Caterpillar 120M2 AWD motor graders is recommended at the total cost of \$301,820 as shown on line 4. Not only is the Caterpillar the lowest cost machine, it is also the best value, as it has additional options that include all-wheel drive, autoshift transmission, enhanced lighting package, and a larger and thicker moldboard. Note that the comparative cost of the all-wheel drive John Deere 672G is \$339,638 for two machines. This cost for the John Deere machines does not include the autoshift transmission, enhanced

lighting, upgraded moldboard, and other minor options that the Caterpillar machine has.

In addition to the base machine, additional machine options are recommended as shown on the bottom portion of the worksheet. These additional options, which primarily includes a rear compaction attachment, adds \$30,370 per machine for the Caterpillar M2 AWD as shown on line 5, for a total of \$60,740 for the two machines as shown on line 6.

Therefore, the total recommended purchase from Zeigler, Inc. under Contract No. 46477 for two Cat 120M AWD machines is \$362,560 as shown on line 7. \$310,000 is budgeted in the 2013 Capital Equipment budget for this purchase, with an additional \$70,000 programmed in the 2014 Capital Equipment Program.

#### Motor Grader Comparison

#### Zeigler, Inc. 901 West 94th Street Bloomington, MN 55420

Line 1 Line 2 Line 3 Line 4

Line 5 Line 6 Line 7 RDO Equipment Company 12500 Dupont Avenue South Burnsville, MN 55337

		Caterpillar 120M2	\$ 188,290		Caterpillar 120M AWD	erpillar 120M AWD \$188,290		ohn Deere 670G Base Price \$ 171,512		John Deere 67	John Deere 672G Base Price \$ 180,653		
	Machine Specifications:									400 405 (4.4			
	Net Horsepower	145-189 (1st gear to 8th gear)			145-189 (1st gear to 8th gear)			160-195 (1st gear to 8th gear)		160-195 (1st g	ear tp 8th gear)		
	Operating Weight	36,073 pounds			37,573 pounds (approx.)			35220 pounds			37470 pounds		
	Number of Drive Tires	4			6			4			6		
	Alternator Size	150 amp			150 amp			100 amp			100 amp		
	Battery CCA	Two 1125 CCA			Two 1125 CCA			Two 1400 CCA			Two 1400 CCA		
	Differential Type	Lock-unlock, automatic			Lock-unlock, automatic			lock-unlock, automatic		lock-ur	llock, automatic		
	Fuel Tank Size	100 gallons			100 gallons			111 gallon		0.6	111 gallon		
	Transmission	8 forward, 6 reverse			8 forward, 6 reverse			8 forward, 8 reverse		8 tor	ward, 8 reverse		
	Powershift Transmission	Powershift			Autoshift			Powershift			Powershift		
	Deduct for Tier III emissions compliance	NA			yes	\$ (1	14,840)	NA			NA		
	Required Specifications:												
	(Highlighted Items denotes exceeded specification	•	•		مريكه الممايين الم		20 202	1100	\$		all-wheel drive \$	100	
	Tandem Rear Drive	yes	\$	•	all-wheel drive		14,000	yes NA	Φ 💌		NA NA		
	Snow Fighter Package	NA	e.		yes		110000		\$ -		yes \$	*	
	Air Conditioning	yes	\$	-	yes		*	,	\$ 18,70	n	yes \$		
	Electronic Steering and Hydraulic Controls	yes	\$	•	Included In snow-fighter package option			-	\$	5	yes \$		
	Air Suspension Seat	yes				\$	-		\$ -		yes \$		
	Rear Window Wiper/Washer Rear Window Defrost	yes yes	S	980	included in snow-lighter package option	•	200	•	\$ *		yes \$		
	Cab Air Precleaner	ves	120	#		\$		,	\$ 42	1	yes \$		
	Rear Vision Camera	ves	195000	,150		\$	1967	,	\$ 1,37		yes \$		
	Exterior Mounted Rear View Mirror	yes	4			\$			\$ +		yes \$		
		yes	Š		ves	-			\$ -		yes \$		
	Front Window Wiper/Washer	ves	Š		yes			yes			yes \$	_	
	Rear Defroster Fan	yes	Š		yes				\$ *		yes \$		
	RH Cab Door	yes	Š	4	yes		17.	yes	T	4	yes \$		
	Intermittent Wiper for RH Cab Door RH Ladder	yes	S		yes			yes	•		yes \$		
	Speedometer/Tachometer	yes	Š	× 1	yes				\$ -		yes \$		
	AM/FM weatherband radio	yes			included in snow-fighter package option				\$ 44	7	yes \$		
	Rear Sunshade	yes			included in snow-fighter package option				\$ 10		yes \$	•	
	24 Volt to 12 Volt converter	yes	\$	890		\$	160	yes	•		yes \$		
	Fluid Sample Ports	yes	\$	-	yes	- 1		yes	\$ 4		yes \$		
	Black Exhaust Pipe	yes	Ψ	0	yes			yes			yes \$	5 -	
	Transmission Soleniod Guard	yes		0	ves	_		yes	\$ 9	7	yes \$		
	Engine Coolant Heater	yes	S		yes			yes	\$ -		yes \$		
	Basic Work Lights	yes	\$	350	included in snow-fighter package option		in.	yes	\$ 49	8	yes \$	\$ 506	
	Rt Flip Down Bracket	yes	5	*	yes	-		yes		2	yes \$		
	Cab-Mounted Strobe Light	yes	5	800	yes		800	yes	\$ 37	'9	yes \$	\$ 379	
	17.5 x 25" Rim/Tires	Bridgestone VKT, multi piece rim	3.50	2,260	Bridgestone VKT, multi piece rim		2,260	Michelin XTLA, single piece	\$ 6,84	8 Michelin XT	LA, single piece \$	\$ 6,955	
	Base Hydraulics Plus Rear Function	yes	1000	970	Included in snow-fighter package (front, rear, and two	ľ		yes	\$ 1,34		yes \$		
	Base Hydraulics Plus Front Function	yes	Š	860	side functions)	\$	-	yes	\$ 75		yes \$		
	14'x24"x7/8" Blade	yes	\$	540	Included in snow fighter package (14"x 27"x1" blade)		0	yes	\$ 71	3	yes \$	\$ 724	
	Left Blade Extension	yes	220 .	,570	yes		1,570	yes	\$ 1,00	8	yes \$	\$ 1,024	
	Standard Pin-on Hitch	yes		720	yes		2,720	NA	\$ -		NA S	\$ -	
	Dozer Blade	Falls 9-foot		1,310	Falls 9-foot		4,310	105" Dozer Blade	\$ 4,57	75 1	05" Dozer Blade \$	\$ 4,647	
	Front-Mount Hitch	yes		200	included in snow fighter package	\$	*						
	Front Steerable Fenders	yes		,270	yes	\$	1,270	yes	\$ 85	53	yes S	\$ 866	
	Slopemeter	yes	\$	380	yes		380	yes	\$ 46	37	yes \$	\$ 467	
	60 month/5,000 hour full machine warranty	yes	\$ 6	3,760	yes	\$	8,760	yes	\$ 5,11	11	yes S	\$ 9,752	
	Delivery	yes		4	yes	\$	-	yes	\$ 36	30	yes \$	\$ 360	
1	Total with Options (each):	ŕ	\$214	1,300		\$2	231,910		\$ 215,94	12		\$ 230,319	
2	Trade-in Allowance (each):		\$ 50	0,300		\$	81,000		\$ 60,50	00		\$ 60,500	
_			<b>#</b> 40	1.000		E 1	15A 040		\$ 155,44	10		\$ 169,819	
3	Total per unit after trade-in allowance:		\$164	4,000		φı	150,910						
4	Total for two Units:		\$328	3,000		\$3	301,820		\$ 310,88	34	:	\$ 339,638	
	Additional Project Oatlance												
	Additional Desired Options: Rear Compaction Attachment	Walk N' Roll w/HD lift and accumulator	¢ 20	370	Walk N' Roll w/HD lift and accumulator	g.	30.370	Handi Hitch 90-inch	\$ 246	14 Ha	ndi Hltch 90-inch	\$ 24,614	
	Side Window Wipers	yes		-	yes		-	Tibilat I mail by mail	<b>4</b> – 1,0				
	Inside Wide Angle Rear View Mirror	yes		100	yes		_						
	Heated outside mirrors	yes		300	included in snow-fighter package option		-						
	fire extinguisher	yes	Ψ		monocod in onow lighter package option	*		yes	\$	60	yes	\$ 60	
	Font Sun Visor							yes	OFFILE C	69	yes		
	Reversible Hydraulic Fan							yes	0.00	6	yes		
	Hydraulic Disconnect							yes		85	yes		
	Ether Starting Aid				included in snow-fighter package option	\$	-	yes				\$ *	
5	Total Additional Options Per Unit:		\$ 30	0,370			30,370		\$ 24,8	28		\$ 24,831	
-			, ,,						100				
6	Total Additional Options for Two Units:		\$ 60	0,740		\$	60,740		\$ 49,6	56		\$ 49,662	
7	Grand Total with All Options for Two Units:		\$38	8,740		\$3	362,560		\$ 360,5	40		\$ 389,300	