


Missouri Department of Transportation
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**ADDENDUM 002
MOWERS
Request for Bid 3-151110TV**

Bidders should acknowledge receipt of Addendum 002 (TWO) by **signing and including it** with the original bid. The due date for receipt of bids was extended to **November 17, 2015 @ 2:00pm** by Addendum 001. Accordingly, the following clarifications are believed to be of general interest to all potential bidders. All other terms and conditions remain unchanged and in full force.

Name and Title of Signer (Print or type)	Name and Title of Department Authority Name: Tom Veasman Title: Sr. General Services Specialist
Contractor/Bidder Signature	Department of Transportation 
(Signature of person authorized to sign)	(Authorizing Signature)
Date Signed:	Date Signed: November 6, 2015

ADDENDUMS AND CLARIFICATIONS TO ITEM #2 HEAVY DUTY THREE SECTION FLEXIBLE 15' CUT ROTARY MOWER SPECIFICATION E683 (10/2015):

DRIVE – Page 11

REMOVE: Drivelines will have a three year warranty.
REPLACE WITH: Drivelines will have a ONE year warranty.

DRIVE LINES AND U-JOINTS – Page 11

REMOVE: The splitter gear box end yoke shall have a spring tension lock coupler for quick attachment/removal to the splitter gearbox shafts. Spindle gearbox yoke shall be an interference bolt type.

BLADES AND RUNNERS – Page 12

REMOVE: Blades shall overlap 6".

HYDRAULICS – Page 12

REMOVE: Safe-guards shall be provided to stop the wings from raising to a point that would prevent it from being lowered from the operators station.

HYDRAULICS – Page 12

REMOVE: The piston seal shall be poly-hone glass-filled-teflon type, O-ring seal designs are not acceptable. The piston rod packing shall be a V-stack or U-pack design. V-stack shall include provisions for adjustment. U-pack shall be retained in an internal groove. Rod wiper shall be a urethane wiper ring (not metal clad). Gland collar will be either externally threaded onto the outside of the cylinder barrel or internally threaded into the cylinder barrel. Designs using an internal wire/lock ring to hold the gland in/on are not acceptable. The hydraulic inlet and outlet shall be welded fixed ferrules located on the cylinder shell.

ADDENDUMS AND CLARIFICATIONS TO ITEM #3 AND #4 COMMERCIAL HEAVY DUTY THREE SECTION FLEXIBLE 15' OR TWO SECTION 10' CUT ROTARY MOWER SPECIFICATIONS (E683-A Revised 10/15):

DRIVE – Page 16

REMOVE: Bondioli and Pavesi drivelines are required.

GEAR BOX ASSEMBLIES – Page 16

REMOVE: Bondioli and Pavesi drivelines are required.

DRIVE LINES AND U-JOINTS – Page 16

REMOVE: This Equal Angle hitch shall have a Weasler main power shaft in lieu of the Bondioli and shall be u-joint style verses CV style shaft requiring greasing once every 40 hours.

DRIVE LINES AND U-JOINTS – Page 16

REMOVE: The splitter gearbox end yoke shall have a spring tension lock coupler for quick attachment/removal to the splitter gearbox shafts. Spindle gearbox yoke shall be an interference bolt type.

BLADES AND RUNNERS – Page 17

REMOVE: The Blades shall overlap 6 1/2".

HYDRAULICS – Page 17

REMOVE: The two hydraulic wing lift cylinders should each be 3" X 12" welded cylinders, 3" diameter bore, 12" stroke, 1.25" diameter rod, 22 1/4" closed pin center. A Hydraulic Phasing System shall be used to level the cutter from the center to the wing sections. This hydraulic phasing cylinder system shall consist of one 3 1/2" X 5" center cylinder, one 3 1/4" X 5" wing wheel standard cylinder and one other 3" X 5" wing wheel standard cylinder. Each phasing cylinder shall have 1 1/4" diameter rods, 18 1/8" closed pin center, rephasing orifices and mechanical stop collars fitted to all cylinders. Cylinder seals shall be as follows: Static and dynamic O-ring seals with nitrile 90 durometer, ASTM D2000, 86/SAE J200. Static and dynamic backup washers, unithane 395A, and liquid cast polyurethane. 3000-PSI series piston seal, 15% fiberglass filled Teflon piston seal c/w 90 durometer o-ring expander. 3000-PSI series piston and cylinder rod wear rings, #66 nylon, 33% glass filled. 3000-PSI series rod seal, #605 twin lip u-cup seal. Cylinder rod wipers seals, 3000-PSI series, metal encased nitrile lip wiper seal.

SUBMIT REVISED COMMERCIAL HEAVY DUTY 10' & 15' ROTARY MOWER MINIMUM SPECIFICATION E683-A CHECKLIST ATTACHED ON NEXT PAGE IN LIEU OF ORIGINAL

REVISED COMMERCIAL HEAVY DUTY 10' & 15'
ROTARY MOWER MINIMUM SPECIFICATION E683-A CHECKLIST
 Submit the following checklist w/ your Pricing Pages for Items #3 and #4.

	Bidders	Bidders
	Item #3	Item #4
	<u>MEETS</u>	<u>MEETS</u>
1. ROUND SPUN FORMED STUMP JUMPER	_____	_____
2. CONTINUOUS WELDED SEAMS	_____	_____
3. SINGLE DOMED DECK	_____	_____
4. PHASING CENTER & WING LIFT CYLINDERS	_____	_____
5. CENTER DECK WALKING TANDEMS	_____	_____
6. PENTAGON BLADE BOLTS	_____	_____
7. REPLACEABLE BLADE BOLT BUSHINGS	_____	_____
8. TIRES – LAMINATED OR SEVERE DUTY AIRPLANE TIRES; (4) CENTER DECK; (1) TIRE PER WING;	_____	_____
9. 5 BOLT WHEELS	_____	_____
10. RETRACTABLE WING WHEELS	_____	_____
11. GREASABLE, REPLACEABLE SPRING STEEL BUSHINGS w/ANTI-ROTATION PINS AT PIVOT POINTS	_____	_____
12. 540 RPM	_____	_____
13. MINIMUM 235 HP SPLITTER GEARBOX	_____	_____
14. MINIMUM 200 HP DECK GEARBOXES	_____	_____
15. MINIMUM 15 FT CUT WIDTH; 3 SECTION HYDRAULIC FOLD (applies to item #4)	_____	_____
16. MINIMUM 10 FT CUT WIDTH; 2 SECTION HYDRAULIC FOLD (applies to item #3)	_____	_____

Explanation of Any Exceptions to Above Requirements: _____

 Signature of Bidder

 Date