



DEKALB COUNTY HIGHWAY DEPARTMENT

Office of
County Engineer
1826 Barber Greene Road
DeKalb, Illinois 60115

NATHAN F. SCHWARTZ, P.E.
County Engineer

Office Phone: (815) 756-9513
Fax: (815) 756-8705

TO WHOM IT MAY CONCERN:

DATE: February 22, 2017

REF: DeKalb County Bid Letting Scheduled for March 1, 2017 - For Snow Plow, Frame, Hydraulic System, Dump Body, Underbody Scraper, Spreader and Pre-Wet Tank System

This letter will serve as notice that an addendum to the above referenced project has been published. Enclosed is a corrected page 4 of the posted proposal. The table indicating "The valve is to be arranged as follows;" has been modified to delete "Wing toe, Wing heel and Push bar" and "Underbody scraper (up/down); Underbody scraper (left/right)" has been inserted in their place. Please remove and destroy the current page 4 and replace it with the attached.

This addendum clarifies the valve arrangement.

In addition, a copy of this cover letter is to be attached to any bid proposal returned by your company as proof of receipt thereof.

If you have any questions concerning this addendum please do not hesitate to contact this Department and speak with Wayne Davey.

Very truly yours,

Nathan F. Schwartz, P.E.
County Engineer

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The dump body manifold shall be stacked next to the inlet section, and capable of 40 GPM with SAE #12 porting. The hydraulic control valves shall be pulse-width modulated, proportionally controlled. Each hydraulic valve segment shall be individually mounted to the manifold base assembly and be serviceable without removing any hydraulic hoses or any other hydraulic valve segments. Each hydraulic valve segment shall have individual pressure compensation to achieve independent simultaneous operations. All segments shall have heavy-duty continuous duty coils and connections shall be with Din connectors. All coils shall operate at 12 VDC and require a maximum of 1400 mille-amps. Each segment shall be equipped with a manual override except for the auger and spinner sections. The dump body segment shall be rated to 40 GPM, with all other segments rated to 20 GPM. If a double acting hoist is utilized, the dump body segment shall be equipped with a down side relief to protect the body down function. This relief shall be set to the hoist manufacturer's specifications. Valve segments shall be **Force America Add-A-Fold® 4020** model or prior approved equal.

The valve is to be arranged as follows:

Hoist	4-way 40 GPM with 500 PSI down side work port relief valve
Plow lift	4-way 21 GPM
Plow angle	4-way 21 GPM
Underbody scraper (up/down)	4-way 21 GPM
Underbody scraper (left/right)	4-way 21 GPM with 1500-psi (A) port relief valve
Auger	4-way 14 GPM (for momentary reversing for clean out)
Spinner	4-way 7 GPM (for momentary reversing for clean out)
Liquid	2-way proportional cartridge 7 GPM

CONTROL JOYSTICK:

The control console shall be equipped with a Hall Effect joystick for activation of the hydraulic functions. The unit shall be designed for severe duty conditions encountered in military, construction and agricultural applications. There shall be three safety interlock zones on the joystick activated by capacitive sensors. Mechanical trigger style contact type safety interlocks are not acceptable. All three interlock zones must be programmable to control specific functions. The joystick shall have proportional control with X, Y and Z axis movement. The single joystick shall provide one point-of-control for hydraulic functions. The joystick shall communicate through a Can Buss communication system to all of the modules of the control system. The single joystick shall be fully proportional and operate all of the cylinder functions. The joystick shall be equipped with left side buttons for spreader rate increase/decrease and standby, right side buttons for spinner speed increase/decrease and blast. The joystick face shall be equipped with five programmable control switches with LED colored backlighting for activation and control of multiple cylinder, spreader and anti-ice functions.

One (1) additional pre-programmed Hall Effect joystick for stock (Shipped Loose)

CONTROL CENTER:

Controls for all valve functions and electronic spreader control will be integrated into a single, self-contained control center. The control center shall be a padded armrest style that is ergonomically designed. Control center shall be modular in design for ease of installation and service, and wiring and connectors shall be keyed and color-coded throughout. All components must be durable for long life and trouble free operation.

The electronic controller shall be fully proportional to operate all cylinder functions. Controls for spreader must be located on armrest at the operator's fingertips.