

VILLAGE OF LINCOLNSHIRE

NOTICE TO BIDDERS

SINGLE AXLE DUMP TRUCK

The Village of Lincolnshire will receive sealed proposals until 10:00 a.m. local time on February 26, 2015 at the Lincolnshire Village Hall, located at One Olde Half Day Road, Lincolnshire, Illinois 60069-3035 at which time and place the bids will be publicly opened.

The proposed project consists of the provision of one Single Axle Dump Truck as specified. Proposal specifications will be made available free of charge on February 12, 2015, at the Village Hall of the Village of Lincolnshire, Lake County, One Olde Half Day Road, Lincolnshire, Illinois.

All Contracts for the Construction of Public Works are subject to the Illinois Prevailing Wage Act (820 ILCS 130/1-12) and the Employment of Illinois Workers on Public Works Act (30 ILCS 570).

The Village of Lincolnshire reserves the right to defer the acceptance of a proposal for a period not to exceed 45 calendar days after the date proposals are to be received and to accept or reject any and all proposals and to waive technicalities and to accept the proposal which best meets the needs and requirements of the Village.

Village of Lincolnshire

Nick Azzone,
Fleet Maintenance Supervisor

**Village of Lincolnshire
Proposal for one new Single Axle Dump Truck
With Bonnell Snowplow, Tailgate Salt Spreader, and Pre-wet System**

TO: Mayor and Board of Trustees
Village of Lincolnshire
One Olde Half Day Road
Lincolnshire, Illinois 60069

FROM: _____
Company

Address

City State Zip

(_____) _____
Telephone

Dear Mayor and Trustees:

We, the undersigned, hereby propose to furnish a new Single Axle Dump Truck and all accessories, to the Village of Lincolnshire, Illinois, in accordance with the Notice to Bidders, Instructions to Bidders and General Conditions, and Specifications for an amount equal.

Single Axle Dump Truck with all accessories. \$ _____

Add/alternate:

3 gallon pre-wet flush tank kit \$ _____

Air Disk Brake System \$ _____

Single Air Ride Suspension \$ _____
(Hendrickson HAS 230) 23,000-lb. Capacity,
9.5" Ride Height, With Shock Absorbers

Trade in will be a 2004 GMC 8500 Tandem Dump Body (10/13 YD), Force America Hydraulic System, 11 FT. Flink Snowplow, Under Tailgate Salt Spreader and Pre-wet System.

Less Trade-in \$ _____

Total Price \$_____.

The undersigned declares that the following listed exceptions or substitutions as indicated below are the only exceptions or substitutions proposed.

The undersigned acknowledges that the Village of Lincolnshire, at its sole discretion, shall either except or decline any or all exceptions or substitutions as allowed in the terms and conditions.

The Contractor understands that a contract to purchase the product and/or work shall be formed based upon the terms of the Request for Proposal upon acceptance of Contractor's proposal by the Village and that the Village will not execute any form of contract submitted by the Contractor. No substitutes will be permitted unless specified by the Contractor in the proposal and approved by the Village.

The undersigned submits the following Lump Sum Price for the items as shown on the Specifications, and agrees that the items of work not specifically mentioned in the Schedule which are necessary and required to complete the work intended shall be done incidental to and as part of the items of work for which a price is given, and understands that no additional payment will be made for such incidental work.

The undersigned has received and considered in this proposal the following:

Addendum # _____

Addendum # _____

Addendum # _____

If no addenda were received, mark not applicable.

The prices stated in this proposal are guaranteed for 45 days from the date hereof.

Dated this _____ day of _____ 2015.

Respectfully submitted,

Company Name

Signature

By _____
Name and Title, printed

CONTRACTOR'S CERTIFICATION

_____, of _____, Illinois, apart of its bid on a contract for a new Single Axle Dump Truck and accessories for the Village of Lincolnshire, hereby certifies that said contractor is not barred from bidding on the aforementioned contract as a result of a violation of either Sec5/33E-3or5/33E-of Article 33E of Chapter 720 of the Illinois 5/33E-4 of Article 33E of Compiled Statutes,1994.

_____, having submitted a bid/proposal for a new Single Axle Dump Truck and accessories to the Village of Lincolnshire, hereby certifies that said contractor has a written sexual harassment policy in place in full compliance with Chapter 775 ILCS 5/2-105(A) 1994.

I, _____, duly authorized agent for _____, having been first duly sworn depose and state as follows:

1. The above-named company is not delinquent in payment of any tax administered by the Illinois Department of Revenue or if it is:

2.a.It has previously filed the appropriate document contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate revenue Act; or

b.It has entered into an agreement with the Department of Revenue for payment of all its taxes due and is in compliance with that agreement.

By: _____
Signature

Name, printed
Authorized Agent of Contractor

Subscribed and sworn to before me this ____day of _____, 2015.

Notary Public

SEAL

INSTRUCTIONS TO BIDDERS

GENERAL CONDITIONS

1. **Examination of Specifications:** The bidder shall carefully examine the specifications, and forms of proposal, and contract before submitting his bid for the purchase contemplated. The submission of a proposal shall be considered conclusive evidence that the bidder has investigated and is satisfied as to all conditions to be encountered in supplying the new. Single Axle Dump Truck and accessories, and is fully informed as to the character, quality, quantities and costs of work to be performed and materials to be furnished, and to the requirements of the Specifications, Notice to Contractors, Instructions to Bidders, Proposal, and Contract. If his bid is accepted, the bidder will be responsible for all errors in his proposal resulting from his failure or neglect to comply with these instructions, and for any anticipated profits resulting from such failure or neglect.

2. **Preparation of Proposal:** The bidder shall submit his proposal on forms furnished by the Village. All writing shall be in ink or typewriter, except the signature of the bidder shall be written with ink. A proposal made by an individual shall be signed by the bidder or his duly authorized agent. A proposal made by a partnership shall be signed by one partner or by a duly authorized agent thereof. A proposal made by a corporation shall be signed by an authorized officer or duly authorized agent of such corporation.

3. **Delivery of Proposal:** The proposal shall be placed in a sealed envelope plainly marked to indicate its contents and the bidder's name and address. Proposals shall be delivered prior to the time and at the place designated in the Notice to Contractors. When delivered by mail, the sealed proposal marked as specified above shall be enclosed in an additional envelope addressed to the Village and preferably sent by registered or certified mail. If the proposal is received after the opening of bids, it will be returned to the bidder unopened.

4. **Opening of Proposals:** Proposals will be opened and read publicly at the time and place designated in the Bid invitation letter. Bidders, their authorized agents, and other interested parties are invited to be present

5. **Rejection of Proposals:** The Village reserves the right to reject a bidder's proposal for any of the following causes:

5.1 Developments subsequent to the bid opening which in the Owner's opinion would reasonably be construed as affecting the competency or responsibility of the bidder.

5.2 Conviction of a violation of State or Federal law, or rule or regulation of a State or Federal agency, relating to or reflecting on the competency of the bidder for performing the work contemplated.

5.3 More than one proposal for the same work from an individual, partnership, or corporation under the same or different names, or evidence of collusion among bidder.

5.4 Proposal contains omissions, erasures, alterations, unauthorized additions, conditional or alternate bids, or irregularities of any kind which tend to make the proposal

incomplete, indefinite, or ambiguous as to its meaning.

5.5 Proposal form is other than furnished by the Village.

5.6 Proposal is not accompanied by a proper bidder's statement of competency.

5.7 Lack of qualifications as revealed by the bidder's statement of competency.

5.8 Uncompleted work which in the judgment of the Village might hinder or prevent the prompt completion of additional work if awarded.

6. **Award of Contract:** Unless all proposals are rejected for good cause, award of contract will be made to the responsive, responsible bidder whose proposal best meets the Village's requirements and whose proposal complies with all specified requirements stated herein. The successful bidder will be notified by letter that his bid has been accepted and he has been awarded the contract by the Village.

7. **Failure to Deliver Equipment:** Failure on the part of the successful bidder to deliver the Single Axle Dump Truck and accessories, within one hundred twenty (**120**) days after the date the contract was mailed or otherwise delivered to him, will be just cause for the annulment of the award. If the Village fails to execute the contract agreement within a reasonable time, not to exceed ninety (**90**) days after receiving the executed contract agreement from the successful bidder, the Contractor shall have the right to withdraw his proposal.

8. **Tax Exempt:** The Village of Lincolnshire is a tax exempt body. All purchases of materials subject to a sales or use tax shall be coordinated with the Village of Lincolnshire in order to claim this tax exempt status.

9. **Delays and Extensions of Time:** If the Contractor is delayed at any time in progress of the work by an act or neglect of the Village, or of an employee of either, or of a separate contractor employed by the Village, or by changes ordered in the work, or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties or other causes beyond the Contractor's control, or by delay authorized by the Village, at its sole discretion, pending arbitration, or by other causes which the Village, at its sole discretion, determines may justify delay, then the contract time shall be extended by change order for such reasonable time as the Village may determine at its sole payment

10. **Payment** of invoices submitted before the 15th of the month will be submitted for Board approval and payment will be made by the 15th of the following month. Any errors or omissions in mathematics shall inure to the benefit of the Village of Lincolnshire.

11. **Substitutions/Approved Equal:** Any component may be substituted or declared to be an approved equal in accordance with the following conditions.

11.1 The section on the proposal form marked substitution shall be marked with an appropriate reference indicating a substitution. No substitutions shall be allowed unless the substitution section is marked on the proposal in accordance with this section.

11.2 All substitutions must be accompanied by catalog cuts and a text narrative clearly and explicitly detailing how and why the proposed substitution meets or exceeds the

specified item.

11.3 Plans and drawings, as applicable, showing the connections and interrelationships to the system must accompany the proposal.

11.4 Any additional wiring, cabling and interconnection changes related to the substitution shall be considered incidental to and included in the price of the proposed substitution. The Village, at its sole discretion, shall either accept or reject any item marked as a substitution prior to contract approval.

12. **Subcontractor:** If Contractor proposes to perform contract with Sub-contractor(s), then all qualifications, insurance requirements, and other applicable terms and conditions shall apply to each and every Sub-contractor. The proposal shall include such documentation for each Sub-contractor. Prior to any work being performed by the Sub-Contractor, the Contractor shall submit all the necessary information to the Village regarding Sub-contractor including company name, company address, certificate of insurance, licenses, years in business, bid certification, name of project contact person; and the Village, at its sole discretion, may require additional insurance, bonds, or deposits to assure faithful performance.

13. **Functional/Operational:** The Village, at its sole discretion, shall make the determination of "functional and operational" in the event of any questions, disputes, or concerns regarding this Contract.

14. **Village Orientation/Training/Documentation** - The following items shall be considered as incidental to the contract;

14.1 The Contractor shall supply two (2) bound copies, or DVDs, of any and all manuals, service/parts, and, documents and specifications for each installed piece of equipment, along with a text narrative explaining the operation and function of each installed piece of equipment.

14.2 The Contractor shall provide for and perform up to two (2) hours of training for Village's representatives prior to final payout to Contractor.

14.3 The Contractor shall in the presence of Village and Village's representative demonstrate and operate each piece of installed equipment and submit a signed certification as to the operational status of all installed equipment prior to final payout to Contractor.

15. **Warranty:** The Contractor shall guarantee that the materials and workmanship of the installed equipment are of the highest quality in every respect and that he will make good any defects in materials or workmanship which may develop within 2 years from the date of final delivery at no cost to the Village.

All merchandise furnished by the Contractor hereunder is unconditionally warranted by the Contractor for full year against defects in materials or workmanship. If defects appear due to faulty workmanship or materials within the warranted period, the Contractor will upon receipt of notice thereof repair or replace same without charge to the Village. All other services furnished by the Contractor after installation and acceptance will be provided by the Contractor at the regular hourly rate for the trade required. The Contractor will provide such service through its own

mechanics and subcontractors and shall charge only the effective rate with no profit added. Replacement merchandise and parts other than those furnished under warranty shall be provided at the same rates as the basic products sold under these General Conditions. In the case of any work performed in correcting defects pursuant to the guarantees provided for by the Contractor the guarantee period shall begin anew from the date of the notice of acceptance of the repair work. The forgoing remedies shall not deprive the Village of any action, right or remedy otherwise available for breach of any of the provisions of the Contract Documents by the Contractor and the periods referred to above and shall not be construed as a limitation on the time in which the Village may pursue other action, right or remedy.

16. **Conditions:** All merchandise furnished by the contractor shall be new and unused.

17. **Delivery:** The Single Axle Dump Truck and accessories shall be delivered to the Village of Lincolnshire Public Works Facility located at 205 Schelter Road, Lincolnshire, Illinois between the hours of 7:00am. and 2:30 pm., Monday through Friday, excluding holidays. The Operations Superintendent or the Fleet Maintenance Supervisor shall be notified at (847) 883-8600 of the delivery date at least 48 hours prior to that date. The unit shall be delivered within 120 days of the date of acceptance by the Mayor and Board of Trustees.

**SPECIFICATIONS FOR ONE NEW SINGLE AXLE DUMP TRUCK
WITH BONNELL'S SNOWPLOW, TAILGATE SALT SPREADER, AND PRE-WET SYSTEM**

1. **GENERAL:** It is the intent of these specifications to describe the minimum requirements, except as otherwise specified, for one (1) new, unused, and of the current model year's production, Single Axle Dump Truck hereafter called "the unit". The unit shall be completely serviced, ready for work in accordance with all manufacturers' specifications prior to delivery to the Village of Lincolnshire.

- a. The unit shall have a full year warranty on parts and labor as provided by the manufacturer and upon delivery. The engine shall have a manufacturer's warranty. Any defective parts or materials, or defects caused by whatever reason found on the unit shall be replaced or repaired by the bidder to new condition with reasonable promptness but not more than 14 days.
- b. The supplier shall have a fully stocked parts and service facility within 100 miles of the Village of Lincolnshire. Bidders shall have service and support available 24/7 for on-site service and repair. The Village of Lincolnshire shall have the right to inspect the facility and shall be the sole judge of its adequacy to fulfill this requirement.
- c. The unit bid shall be a manufacturer's standard production model. It shall have been in continuous use municipal and industrial owners for a minimum of one year. A list of five end users contacts including contact names and telephone numbers shall be provided with the bid submittal. Failure to supply a verifiable users list may be cause for rejection of the bid.

Bids will be accepted for consideration on any make and model that is **equal** to superior to the specified one, (2015 or newer) Single Axle Dump Truck and accessories or **equal**, as interpreted by the Village of Lincolnshire. A blank statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence, but will require an explanation at deviation or substitution.

When delivered the unit shall be completed in every way, with all necessary and usual appurtenances, fixtures and equipment commonly provided or furnished on units sold for commercial purposes, even if not directly specified herein. Also, the bidders shall furnish a competent factory representative to instruct the Village's operating and maintenance personal in the proper operation and maintenance of the unit for a period of not less than four hours.

The bidder shall note in writing in the manner provided for on this proposal, any deficiency which may be required by law or by manufacturer's recommendation which is required or recommended to be furnished or installed on the unit for its safe operation and the item(s) shall be provided for as part of this proposal.

3. **SPECIFICATIONS:** It is the intent of these specifications to describe the minimum requirements for a new (2015 or newer). The Single Axle Dump Truck and accessories machine described will be designed to deliver high performance capabilities and provide maximum safety and convenience. All parts not specifically mentioned which are required for complete unit shall conform in design, strength, quality of material, and workmanship to the highest standards of engineering practice.

Add-alternates- The following are items that are to be considered additional to bid not Substitutions and Exceptions – (attach additional to the following on separate sheet)

TRADE-IN ACCEPTANCE: Trade-in cash value for Village owned 2005 GMC 8500 Tandem Dump truck with snowplow, salt spreader to be applied towards purchase.

3 gallon pre-wet flush tank kit \$ _____

Air Disk Brake System (**Front & Rear**) \$ _____

Single Air Ride Suspension (**REAR**) \$ _____
 (Hendrickerson HAS 230) 23,000-lb. Capacity,
 9.5” Ride Height, With Shock Absorbers

ACCEPTABLE MAKES AND MODELS: The following listed makes and models shall be acceptable for the purpose of this bid. Other makes and models not listed shall also be acceptable, provided minimum specifications as described below are met or exceeded.

FREIGHTLINER 108 SD
 PETERBUILT 348
 INTERNATIONAL WORK STAR 7400

List make and model bid	
(Make)	(Model)

SPECIFICATIONS FOR A SINGLE AXLE DUMP TRUCK WITH BONNELL EQUIPMENT

GENERAL:

The Village of Lincolnshire is seeking competitive bids for one (1) Single axle dump truck. This specification shall describe a **Single Axle Dump Snowplow/Salt Truck and Related Equipment**. Bidders must submit with their bid complete specifications on the unit they propose to furnish.
 NOTE: Due to standardization of fleet, all items specified by name brand product must be bid specific.
 (NO ALTERNATES) For consideration.

MINIMUM CHASSIS REQUIREMENTS	COMPLIANCE
VEHICLE CONFIGURATION	
Most Current Model Year – Please state year_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
Set Back Axle	<input type="checkbox"/> Yes <input type="checkbox"/> No
GENERAL SERVICE	
Expected front axle load of 16,000 pounds	<input type="checkbox"/> Yes <input type="checkbox"/> No
Expected rear axle load of 23,000 pounds	<input type="checkbox"/> Yes <input type="checkbox"/> No
Expected gross vehicle weight capacity of 40,000 pounds	<input type="checkbox"/> Yes <input type="checkbox"/> No
ENGINE	
In line six (6) cylinders turbo charged rated at 300 HP @ 2000 RPM, 2200 GOV, 860lb/ft@1200 RPM	<input type="checkbox"/> Yes <input type="checkbox"/> No
ENGINE EQUIPMENT	
2013 EPA/CARB emission certification	<input type="checkbox"/> Yes <input type="checkbox"/> No
Air Filter Dual Element, with Integral snow Valve and In-Cab Controller	<input type="checkbox"/> Yes <input type="checkbox"/> No
VGT Exhaust brake	<input type="checkbox"/> Yes <input type="checkbox"/> No
Omit - Clean Idle Certified sticker on left side of hood	<input type="checkbox"/> Yes <input type="checkbox"/> No
Engine mounted oil check and fill	<input type="checkbox"/> Yes <input type="checkbox"/> No
Extended Oil Life	<input type="checkbox"/> Yes <input type="checkbox"/> No
Side of hood air intake with firewall mounted Donaldson air cleaner	<input type="checkbox"/> Yes <input type="checkbox"/> No
Engine Block Heater Pan Shall Be Metal / Plastic / Metal Coated Material (No Exceptions) -(Phillips) 120 volt/1250 Watt with Y cord from socket in Standard Location or equal.	<input type="checkbox"/> Yes <input type="checkbox"/> No
12V 200 AMP 28-SI quadramount pad alternator with remote battery voltage sense.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Two (2) Alliance model 1231, group 31, 12 volt maintenance free 2250 CCA threaded stud batteries.or equal or pre-approved	<input type="checkbox"/> Yes <input type="checkbox"/> No
Battery box to be frame mounted on the right side at back of cab or pre-approved.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Jump Start Stud - remote mounted	<input type="checkbox"/> Yes <input type="checkbox"/> No
18.7 CFM air compressor with internal safety valve or equal .	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electronic engine integral shutdown protection system	<input type="checkbox"/> Yes <input type="checkbox"/> No
Right hand outboard under step mounted horizontal after-treatment device with right hand horizontal tailpipe with a single vertical tailpipe, turn back type, with bright finish.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Engine after-treatment device, automatic over the road regeneration and dash mounted regeneration request switch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
7 gallon diesel exhaust fluid tank with 100% diesel exhaust fluid fill frame mounted outside outside left rail under cab or to be pre-approved	<input type="checkbox"/> Yes <input type="checkbox"/> No

Borg Warner (Kysor) rear on/off engine fan clutch or equal	<input type="checkbox"/> Yes <input type="checkbox"/> No
Spin on style fuel filter.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Full flow oil filter.	<input type="checkbox"/> Yes <input type="checkbox"/> No
1200 square inch aluminum radiator.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Antifreeze rated to -34F, NOAT extended life.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Gates blue stripe coolant hoses.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Constant tension hose clamps for coolant hoses.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electric grid air intake warmer.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Delco 12V, 38MT Type 300 HD starter with Therma Over – Crank Protection.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>TRANSMISSION</u>	
Allison 3000 RDS- P automatic transmission 5 th Generation Controls, close ratio with PTO provision.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>TRANSMISSION EQUIPMENT</u>	
WTEC calibration – 6 speed RDS package with Allison Optimized. (Package 223)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Vehicle interface wiring with Body Builder connector at back of cab.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electronic transmission customer access connector firewall mounted.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Allison push button, electronic shift control to be dash mounted	<input type="checkbox"/> Yes <input type="checkbox"/> No
Shift Control Parameters Allison 3000 Transmission 5 th Generation Controls, Performance Programing	<input type="checkbox"/> Yes <input type="checkbox"/> No
Transmission Prognostics enabled	<input type="checkbox"/> Yes <input type="checkbox"/> No
Water to oil transmission cooler (Modine)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Transmission oil check and fill with electronic oil level check	<input type="checkbox"/> Yes <input type="checkbox"/> No
Transmission to be supplied with synthetic transmission fluid and be TES-295 compliant.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Allison Spare input/output for Rugged Duty Series (RDS)General Purpose Trucks, Constuction.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Transmission oil Synthetic 29 thru 42 pints.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Transmission TCM Location located inside of cab	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>FRONT AXLE AND EQUIPMENT</u>	
16,000 pound front axle	<input type="checkbox"/> Yes <input type="checkbox"/> No
Mentior MFS-16-143A Wide Track, I- Beam Type or equal	<input type="checkbox"/> Yes <input type="checkbox"/> No
16.5 x 6 Q+ cast spider cam front brakes, Double anchor fabricated shoes.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Non-asbestos front brake lining.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Conmet cast iron front brake drums.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Front oil seals.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Vented front hub caps with window – oil.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Standard spindle nuts for all axles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Haldex automatic front slack adjusters.	<input type="checkbox"/> Yes <input type="checkbox"/> No
TRW TAS-85 power steering.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Power steering pump.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2 quart see through power steering reservoir.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Steering Gear (2) Shepard (M-100/M-80) Dual Power or equal	<input type="checkbox"/> Yes <input type="checkbox"/> No
Synthetic 75W-90 front axle lube.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>FRONT SUSPENSION</u>	
16,000 pound Parabolic tapered leaf	<input type="checkbox"/> Yes <input type="checkbox"/> No
Springs, Front, Auxiliary, rubber	<input type="checkbox"/> Yes <input type="checkbox"/> No
Graphite bronze bushings with seals for front suspension.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Front shock absorbers.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>REAR AXLE AND EQUIPMENT</u>	
23,000 pound single rear axle, Mentior RS-23-186, Single Reduction ,200 Wheel Ends Driver Controlled Locking Differential.	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.83 rear axle ratio.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Iron rear axle carrier with standard axle housing.	<input type="checkbox"/> Yes <input type="checkbox"/> No
17T main extended lube driveline with half round yokes.	<input type="checkbox"/> Yes <input type="checkbox"/> No
16.5 x 7 P cam rear brakes, double achor, cast shoes.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Brake cams and chambers on forward side of drive axle.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Non-asbestos rear brake lining.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Conmet cast iron rear brake drums.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Rear oil seals.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Haldex Goldseal longstroke 1 drive axle spring parking chambers.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Haldex automatic rear slack adjusters.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Synthetic 75W-90 rear axle lube.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>REAR SUSPENSION</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No
23,000 pound flat leaf rear suspension with helper and radius rod.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Standard U-bolt pad.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fore and aft control rods.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>BRAKE SYSTEM</u>	
Air brake package for Straight Truck Applications	<input type="checkbox"/> Yes <input type="checkbox"/> No
Wabco 4S/4M ABS without traction control or a Bendix AntiLock Brake System,full Vehicle Control system (4 channel) With Automatic Traction Control, to be pre-approved.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Reinforced nylon, fabric braid and wire braid chassis air lines.	<input type="checkbox"/> Yes <input type="checkbox"/> No
BW AD-IS (DRM) air dryer with integrated air governor and heater or equal .	<input type="checkbox"/> Yes <input type="checkbox"/> No
Air dryer reservoir mounted.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Steel air brake reservoirs.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Petcock drain valves on all air reservoirs shall have pull chains on all tanks .	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>WHEELBASE AND FRAME</u>	
160 inch wheelbase minimum, 90 inch cab-to-axle, minimum, to be pre-approved.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Prior to ordering The Village Of Lincolnshire's trucks chassis, both the body builder and truck dealer must go over the truck spec. to ensure the truck chassis component location's will accept the body builder components	<input type="checkbox"/> Yes <input type="checkbox"/> No
11/32"x 3-1/2"x 10-5/16" steel frame, 120 PSI	<input type="checkbox"/> Yes <input type="checkbox"/> No
¼" C-channel inner frame reinforcement.	<input type="checkbox"/> Yes <input type="checkbox"/> No
24" integral front frame extension, for Snowplow Attachment	<input type="checkbox"/> Yes <input type="checkbox"/> No
Primary connector/receptacle wired for separate Stop/Turn with center pin power through ignition.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>CHASSIS EQUIPMENT</u>	
14" painted steel bumper with Swept Back .	<input type="checkbox"/> Yes <input type="checkbox"/> No
Front tow hooks	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fender and front of hood mounted front mudflaps.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Huckspin round collar chassis frame fasteners.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>FUEL TANKS</u>	
70 gallon aluminum fuel tank, left side,Under Cab 23" diameter.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fuel Tank Heater (Arctic Fox) or equal	<input type="checkbox"/> Yes <input type="checkbox"/> No

Plain aluminum/painted steel fuel/hydraulic tank(s) with painted bands.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fuel tank forward.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fuel tank cap with Quick Connect Outlet.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Inboard fuel filter/water separator with heated bowl and primer pump.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Equiplo inboard fuel system.	<input type="checkbox"/> Yes <input type="checkbox"/> No
High temperature reinforced nylon fuel line.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>TIRES</u>	
Goodyear G661 HAS 12R22.5 16 ply radial front tires.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Goodyear G662 RSD 11R22.5 16 ply radial rear tires.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>HUBS</u>	
Comnet pre-set bearing iron front and rear hubs.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>WHEELS</u>	
22.5x8.25 10 hub pilot 5 hand steel disc front wheels.	<input type="checkbox"/> Yes <input type="checkbox"/> No
22.5x8.25 10 hub pilot 2 hand steel disc rear wheels.	<input type="checkbox"/> Yes <input type="checkbox"/> No
One (1) Spare Front tire and Wheel	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>CAB EXTERIOR</u>	
108" BBC flat roof conventional aluminum cab.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Air Bag Cab Type mounts.(rear)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Non-removable bug screen mounted behind the grille.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Bolt-on molded flexible fender extensions or to be pre-approved	<input type="checkbox"/> Yes <input type="checkbox"/> No
Left hand and Right hand grab handles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Stationary chrome grille.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Chrome hood mounted air intake grille.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fiberglass hood.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Hood liner, added firewall and floor heat insulation with premium insulation throughout.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Dual 14 inch round polished air horns with snow shields.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Dual electric horns.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Door locks and ignition switch keyed the same with four keys.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Long Life Halogen composite headlights for Two Light System.	<input type="checkbox"/> Yes <input type="checkbox"/> No
LED aerodynamic marker lights.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Integral stop/tail and back up lights.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Dual West Coast bright finish heated mirrors with left hand and right hand remote.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Door mounted mirrors.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Left hand and right hand bright finish convex mirrors mounted under primary mirror.	<input type="checkbox"/> Yes <input type="checkbox"/> No
63" x 14" tinted rear window.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tinted door glass left hand and right hand with tinted operating wing windows.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Right hand and Left hand electric powered windows.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Left hand and right hand electric door locks.	<input type="checkbox"/> Yes <input type="checkbox"/> No
1 piece tinted curved bonded windshield with heated wiper blade park areas and on driver side and passenger side pillars.	<input type="checkbox"/> Yes <input type="checkbox"/> No
8 liter windshield washer reservoir.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>CAB INTERIOR</u>	
Cab Interior Trim - Shall be Premium Package Interior.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Left hand and right hand molded door panels with aluminum kick plate on lower door.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Black mats with single insulation.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Dash mounted ash tray and lighter.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Forward roof mounted console with upper storage compartments without netting.	<input type="checkbox"/> Yes <input type="checkbox"/> No
(2) or more coffee cup holders, cupholders left hand, right hand dash and center of dash.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Gray/Charcoal flat dash.	<input type="checkbox"/> Yes <input type="checkbox"/> No
5lb fire extinguisher with mounting bracket (shipped- loose).	<input type="checkbox"/> Yes <input type="checkbox"/> No
Heater, defroster, and air conditioning.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Standard HVAC ducting with snow shield for fresh air intake.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Main HVAC controls with recirculation switch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Standard heater plumbing.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Denso heavy duty air conditioner compressor.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Premium insulation-(extra) throughout entire cab (No Exceptions) .	<input type="checkbox"/> Yes <input type="checkbox"/> No
Solid state circuit protection and fuses.	<input type="checkbox"/> Yes <input type="checkbox"/> No
(2) or more Dome lights with 3-way switch activated by left and right doors.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Throttle Hand Control, Engine speed Control, Electronic, stationary, Variable speed,Mounted on Steering Wheel.	<input type="checkbox"/> Yes <input type="checkbox"/> No
One (1) 12 volt power supply in dash.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Triangular reflectors without flares with mounting bracket (shipped- loose).	<input type="checkbox"/> Yes <input type="checkbox"/> No
High back air suspension drivers seat and air suspension passenger seat with mechanical lumbar support also with Inboard arm rests	<input type="checkbox"/> Yes <input type="checkbox"/> No
Left hand and right hand integral door panel armrests.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Black Cordura Plus cloth drivers and passengers seat covers.	<input type="checkbox"/> Yes <input type="checkbox"/> No
3 point high visibility orange retractor driver and passenger seat belts	<input type="checkbox"/> Yes <input type="checkbox"/> No
Adjustable tilt and telescoping steering column.	<input type="checkbox"/> Yes <input type="checkbox"/> No
4 spoke 18" steering wheel.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Driver and passenger interior sun visor.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>INSTRUMENTS AND CONTROLS</u>	
Gray driver and center instrument panels	<input type="checkbox"/> Yes <input type="checkbox"/> No
Black gauge bezels.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Low air pressure light and buzzer.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2 inch primary and secondary air pressure guages.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Dash mounted air restriction indicator with graduations.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Preco 1040 87 Dbl automatic self adjusting back up alarm.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electronic cruise control with switches in LH switch panel.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Key operated ignition switch and integral start position, four position off/run/start/accessory.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Odometer/trip/hour/diagnostic/voltage display.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Diagnostic interface connector, 9 pin, SAE J1939, located below the dash.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2 inch electric fuel gauge.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Programmable RPM control – electronic engine.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electrical engine coolant temperature gauge.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2 inch transmission oil temperature gauge.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Engine and trip hour meters integral within driver display.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electric engine oil pressure gauge	<input type="checkbox"/> Yes <input type="checkbox"/> No
AM/FM/WB/ with Blue tooth capability radio/ dash mounted.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Multiple radio speakers in the cab.	<input type="checkbox"/> Yes <input type="checkbox"/> No
AM/FM antenna mounted on forward LH roof.	<input type="checkbox"/> Yes <input type="checkbox"/> No
2-way radio wiring effects,with 20 amp. fuse protection ,includes ignition wire with 5 amp.fuse wire ends heat shrink and routed to center of header console cab	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electronic MPH speedometer.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electronic 3000 RPM tachometer.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Digital voltage display integral with driver display.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Single electric windshield wiper motor with delay and Arctic type blades.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Marker light switch integral with headlight switch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
One (1) valve parking brake system with warning indicator.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Self cancelling turn signal switch with dimmer, washer/wiper, and hazard in the handle.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Integral electronic turn signal flasher with hazard lamps over riding stop lamps.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electric Trailer Brake/ Lights Package to rear of frame for Separate trailer stop, Tail,Turn, Marker Light, curcits includes,electric trailer brake acommodation package with cab connections for mounting coustomers installed electric brake controller unit (1) Draw Tite Intella-Stop Ultra Brake Controller, and a Pollak (7) spade, Model 12-705 mounted at rear trailer hitch of truck.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Body Biulder Wiring back of cab at left side of frame includes sealed connectors for tail/amber turh/marker/backup/accessory power/ground and sealed connector for stop/turn.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Auxiliary Harness shall have 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications	<input type="checkbox"/> Yes <input type="checkbox"/> No
Switch Body Circuits, MID for body builder, (6) Momentary Switches in Instrument Panel,One power module with (6) Channels,20 amp.Max. per Channel, 80 amp. Max . Output, Switches Control Power Module through Multiplex Wiring, Mounted in cab Behind Driver Seat.	<input type="checkbox"/> Yes <input type="checkbox"/> No
PTO Control to be determined by Body Builder	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>COLOR</u>	
Cab to be painted one solid color.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Cab color is to be Winter White or equal .	<input type="checkbox"/> Yes <input type="checkbox"/> No
Black, high solids polyurethane chassis paint.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Vendor white front and rear wheels/rims.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>MISC. EQUIPMENT</u>	
Truck dealer is to be within 100 miles of the Village.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Truck dealer to have parts delivery available during normal business hours Monday through Friday and 24hr. service and parts.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Engine ,Electronics, Including Injectors, warranty is, 5 years/unlimited miles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Transmission warranty is, 5 years/unlimited miles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
AfterTreatment System is, 5 years/unlimited miles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Base vehicle warranty is 2 years/unlimited miles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Cab corrosion/perforation warranty is 5 years/unlimited miles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Frame rails and cross members warranty is 5 years/unlimited miles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Steer and Drive axle warranty is 2 years/unlimited miles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
A complete set of parts and service CD's or Manuals, are to be provided with Vehicle Chassis & Engine-Parts& Service,Body&Hoist-Parts,& Service,Complete Hyd. System-Parts & Service,Spreader&Spinner Parts& Service,Snowplow& Front Plow Hitch Parts& Service,Pre-wet SystemPartys &Service.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Bidders must include a written Warranties in bid packet.	<input type="checkbox"/> Yes <input type="checkbox"/> No
State Safety Inspection shall be done prior to delivery	<input type="checkbox"/> Yes <input type="checkbox"/> No
License Plates will be the sole responsibility of the selling dealer to supply new license plates for vehicle.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>MINIMUM BODY AND EQUIPMENT REQUIREMENTS</u>	COMPLIANCE
HEIL MAB SL-316 6/8 YARD	<input type="checkbox"/> Yes <input type="checkbox"/> No

Inside length of 10 feet	<input type="checkbox"/> Yes <input type="checkbox"/> No
Inside width to be 7 feet	<input type="checkbox"/> Yes <input type="checkbox"/> No
Side height of 28 inches.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tailgate height of 38 inches.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>SIDES & HEADSHEET</u>	
Side height to be 28", 38" front, 38" tailgate	<input type="checkbox"/> Yes <input type="checkbox"/> No
Floor to be formed of 3/16 " AR400 material	<input type="checkbox"/> Yes <input type="checkbox"/> No
Front and sides 10 gauge hi tensile steel	<input type="checkbox"/> Yes <input type="checkbox"/> No
Body to be built with NO holes for lighting	<input type="checkbox"/> Yes <input type="checkbox"/> No
Top rail to be boxed	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tailgate to be 6 panel and have 7/8" hinge plates and 1 1/4" pins	<input type="checkbox"/> Yes <input type="checkbox"/> No
It shall include chains of sufficient length to allow tailgate to lay in a flat position	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tailgate shall have a D-Ring placed in the center for lifting on/off	<input type="checkbox"/> Yes <input type="checkbox"/> No
Board pockets must except 2" lumber.	<input type="checkbox"/> Yes <input type="checkbox"/> No
There will be a loop in the center of tailgate for lifting and 3"x3"angle hooks on bottom of gate to hold chains	<input type="checkbox"/> Yes <input type="checkbox"/> No
There will be tarp rods welded to the side of the body	<input type="checkbox"/> Yes <input type="checkbox"/> No
There will be grease zerks on all tailgate linkage. No exceptions	<input type="checkbox"/> Yes <input type="checkbox"/> No
Double Acting air cylinder style air tailgate release mechanism with electric switch installed incab aspart of the chassis eletrical package	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tailgate props/ salt sheids shall be fabricated out of stainlees steel salt sheilds shall NOT be mounted to the inside of tailgate.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>HOIST</u>	
Hoist to be Heil brand	<input type="checkbox"/> Yes <input type="checkbox"/> No
Model 1821 underbody subframe design	<input type="checkbox"/> Yes <input type="checkbox"/> No
Class 50	<input type="checkbox"/> Yes <input type="checkbox"/> No
Greaseable	<input type="checkbox"/> Yes <input type="checkbox"/> No
Minimum 2 year cylinder warranty	<input type="checkbox"/> Yes <input type="checkbox"/> No
No greasless bushings	<input type="checkbox"/> Yes <input type="checkbox"/> No
No rollar combo	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>1/4 CAB SHIELD</u>	
Shall be 10 gauge stainless steel and as wide as the inside of the body	<input type="checkbox"/> Yes <input type="checkbox"/> No
It will have a 18" pan extending forward from 7 to 9 degrees	<input type="checkbox"/> Yes <input type="checkbox"/> No
Cabshield and gussets shall be continuously welded	<input type="checkbox"/> Yes <input type="checkbox"/> No
There shall be a 3" to 5" clearance over cab with no cut out for window	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>LADDER</u>	
A stainless steel folding ladder shall be mounted on the drivers side of dump box	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>PAINT</u>	
Body to be sand blasted,phosphated cleaned before being painted and with (2) two coats of primer which works with the Imron paint, by installer.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Finish paint to be Imron to match cab	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>ELECTRICAL AND LIGHTING PACKAGE</u>	
IL DOT spec 2008.	<input type="checkbox"/> Yes <input type="checkbox"/> No
72' Whelen Justice LED lightbar with front facing amber LED and LED scene lights	<input type="checkbox"/> Yes <input type="checkbox"/> No
4 corner LED two pair of Whelen 500 series LED ambers and one white/clear LED mounted in Whelen boxes on the outside of the corner posts	<input type="checkbox"/> Yes <input type="checkbox"/> No

Whelen 600 max series LED combos at rear hitch	<input type="checkbox"/> Yes <input type="checkbox"/> No
Whelen 700 max series combos on outside on top of cabshield	<input type="checkbox"/> Yes <input type="checkbox"/> No
All light heads will be upgraded to max series ont eh IL DOT 08J spec	<input type="checkbox"/> Yes <input type="checkbox"/> No
There will be 700 max series LED stop, turn, tail and back up lights in corner posts	<input type="checkbox"/> Yes <input type="checkbox"/> No
Whelen light bar and rear corner post amber and white flashers will have a hi/lo swtich wired to the circuit	<input type="checkbox"/> Yes <input type="checkbox"/> No
All Lighting will be LED	<input type="checkbox"/> Yes <input type="checkbox"/> No
The wiring harness will be Bonell Mfg harness with each wire being labled ever 4' continuously of the function it serves	<input type="checkbox"/> Yes <input type="checkbox"/> No
There will be weather proof plug ends on each end of the harness	<input type="checkbox"/> Yes <input type="checkbox"/> No
All light heads to have wetaher proof plug ends	<input type="checkbox"/> Yes <input type="checkbox"/> No
NO wire splices or butt connectors NO exceptions	<input type="checkbox"/> Yes <input type="checkbox"/> No
Shall be two LED amber strobes mounted in stainlees steel box's on underside of dump body, pre-approved location.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>ELECTRICAL CIRCUIT PROTECTION PANEL</u>	
Each electrical circuit that is added to the chassis shall be individually protected with its own fuse or breaker if more than 30 amps is required	<input type="checkbox"/> Yes <input type="checkbox"/> No
This fuse block module shall incorporate two power tap posts, one +, one – to supply power for addicitional equipment such as two-way radio, CB radio etc.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fuse positions will be labeled	<input type="checkbox"/> Yes <input type="checkbox"/> No
All additional electrical will be hooked to switches on console or factory dash console	
The main circuit breaker and vibrator breaker & selenoid to be mounted in a sealed fiberglass enclosuer in the battery box model # 2HRD3	<input type="checkbox"/> Yes <input type="checkbox"/> No
All wire connectors to encloser to be aluminum.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>CAMERA SYSTEM</u>	
Two camera system shall have a 7" LCD monitor with our camera input control with split screem capability	<input type="checkbox"/> Yes <input type="checkbox"/> No
Camera will be equipped with night vision and audio controls infrared lens with photo sensor JP68 waterproof and dust resistant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Camera will have operating temperature from 30 degrees celcius to 65 degrees celcius	<input type="checkbox"/> Yes <input type="checkbox"/> No
The rear camera will be mounted in a positioned so the driver will have view of the rear of the truck	<input type="checkbox"/> Yes <input type="checkbox"/> No
The product camera will be positioned so the driver can see inside the body at the tailgate	<input type="checkbox"/> Yes <input type="checkbox"/> No
Mounted with stainless steel housing for protection Model # Bon-LBCK-2 per village spec NO EXCEPTIONS	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>PLOW LIGHT CIRCUIT</u>	
1 set of Hella Plow lights installed on stainless steel hood mounted brackets	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>TAIL LIGHTS</u>	
OEM to be removed and replaced with Whelen 600 series stop, turn, tails, and back up light D.O.T spec.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>REAR HITCH</u>	
Bonnell fabricated rear pintle hitch per village specs. 20ton with height of 22" ,also shall be positioned to clear the dump body and salt spreader with dump in full up position.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>BACK UP ALARM</u>	
Furnished and installed Model ECCO SA917 smart back-up alarm or equal.	<input type="checkbox"/> Yes <input type="checkbox"/> No

<u>BRACKETS FOR PRE-WET TANK</u>	
Pre-wet tanks to be mounted behind the cab on top of frame	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tank capacity to be 240 gallons	<input type="checkbox"/> Yes <input type="checkbox"/> No
Brackets to be stainless steel	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>AIR TAILGATE RELEASE</u>	
Body to be fitted with air cylinder to activate tailgate release	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>TOOL BOX.</u>	
Weather Guard 24' aluminum tool box to be frame mounted with stainless steel hardware	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>SPLASH GAURDS</u>	
Supply and installed pair of "Fleet Engineers" brand poly full cover fenders over rear wheels and frame mounted mud flaps behind.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>SPINNER LIGHT</u>	
Whelen Par-36-amber	<input type="checkbox"/> Yes <input type="checkbox"/> No
Placed on the driverside side corner of box	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>BACKUP LIGHT</u>	
Whelen Par-36 white rubber housed flood	<input type="checkbox"/> Yes <input type="checkbox"/> No
To be placed on drivers side and curbside corner of box	<input type="checkbox"/> Yes <input type="checkbox"/> No
Wired to OEM backup lights	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>ROAD WATCH</u>	
Force America supplied mounted on driverside mirror	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>VIBRATOR</u>	
12 volt "Cougar" complete	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>SHOVEL HOLDER</u>	
There will be a stainless steel shivel holder mounted curbside of pre-wet tank bracket	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>FLOOR MATS</u>	
There will be a set of Minimizer brand floor mats installed in cab	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>HYDRAULIC PUMP</u>	
Pumo to be Force America TXV 92 series load sense pitston type	<input type="checkbox"/> Yes <input type="checkbox"/> No
Shall be rated at 2.44-7.32 cubic inch displacement per revolution at maximum stroke	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pump shall be rated at 3000rpm and 3000psi	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pump to be PTO driven	<input type="checkbox"/> Yes <input type="checkbox"/> No
Electronic shut off with override on pressure line at pump wired through oil level sensor in tank .	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>CONTROL CENTER GENERAL</u>	
Control for all valves functions electronic spreader control and auxiliary lighting will be intergrated into single self contained control center	<input type="checkbox"/> Yes <input type="checkbox"/> No
Control center shall be modular in design for ease of installation and service	<input type="checkbox"/> Yes <input type="checkbox"/> No
Wiring and connectors shall be color coded throughout .	<input type="checkbox"/> Yes <input type="checkbox"/> No
Circle-frameless outboard reversing cylinder design	<input type="checkbox"/> Yes <input type="checkbox"/> No
Console (Force America 6100 Controller) is to be mounted to drivers seat (right side)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Units # ultra-switch-base-MTG-kit- with switches	<input type="checkbox"/> Yes <input type="checkbox"/> No
Console to be ordered with in view switches on cabinet	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>FORCE AMERICA 6100 CONTROLLER. NO EXCEPTIONS</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No
A sealed pre-wired harness for all valve controls must be provided .	<input type="checkbox"/> Yes <input type="checkbox"/> No
All components must be durable for long life and trouble free operation	<input type="checkbox"/> Yes <input type="checkbox"/> No
The controller shall have one single axis joystick for hoist function	<input type="checkbox"/> Yes <input type="checkbox"/> No
It shall have proporational control with center lock for safety	<input type="checkbox"/> Yes <input type="checkbox"/> No

The controller shall include two joysticks for plow and body functions	<input type="checkbox"/> Yes <input type="checkbox"/> No
Spreader controls must be housed in the same control as well	<input type="checkbox"/> Yes <input type="checkbox"/> No
A sealed pre-wired harness for all valve controls must be provided .	<input type="checkbox"/> Yes <input type="checkbox"/> No
All components must be durable for long life and trouble free operation	<input type="checkbox"/> Yes <input type="checkbox"/> No
The controller shall have one single axis joystick for hoist function	<input type="checkbox"/> Yes <input type="checkbox"/> No
It shall have proportional control with center lock for safety	<input type="checkbox"/> Yes <input type="checkbox"/> No
The controller shall include two joysticks for plow and body functions	<input type="checkbox"/> Yes <input type="checkbox"/> No
Spreader controls must be housed in the same control as well	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>SPREADER CONTROLS</u>	
The electronic spreader control shall be designed for precise closed loop control of granular and liquid material application	<input type="checkbox"/> Yes <input type="checkbox"/> No
The auger, spinner, and liquid functions shall be controlled by individual detented dial, providing proportional control from closed to fully open on control valve	<input type="checkbox"/> Yes <input type="checkbox"/> No
The unit must provide operational modes for manual and open loop ground speed only	<input type="checkbox"/> Yes <input type="checkbox"/> No
Spreader control shall be a Force America model Ultra 6100-CAN BUS system	<input type="checkbox"/> Yes <input type="checkbox"/> No
Liquid control must be able to drive a hydraulic liquid pump	<input type="checkbox"/> Yes <input type="checkbox"/> No
Package to include new LCD display panel and Force America Road watch temperature system	<input type="checkbox"/> Yes <input type="checkbox"/> No
There will be a blue and black event logging key supplied for the Force America equipment	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>DATA COLLECTION</u>	
Shall be received through a sensed auger motor	<input type="checkbox"/> Yes <input type="checkbox"/> No
NO EXTERNAL SHAFT SENSOR ACCEPTED	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pre-wet data will be retrieved through a bullet style flow meter	<input type="checkbox"/> Yes <input type="checkbox"/> No
NO PADDLE STYLE SENSORS ACCEPTED (no exceptions)	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>HYDRAULIC VALVE</u>	
Hydraulic valve to be of modular manifold design	<input type="checkbox"/> Yes <input type="checkbox"/> No
Each hydraulic function requires an individual manifold base	<input type="checkbox"/> Yes <input type="checkbox"/> No
The hydraulic control valves shall be pulse-width modulated, proportionally controlled	<input type="checkbox"/> Yes <input type="checkbox"/> No
.Each hydraulic valve segment shall be individually mounted to the manifold base assembly	<input type="checkbox"/> Yes <input type="checkbox"/> No
To be serviceable without removing any hydraulic hoses or any other hydraulic valve segments	<input type="checkbox"/> Yes <input type="checkbox"/> No
All segments shall have heavy duty continuous duty coils and Hirshman connectors	<input type="checkbox"/> Yes <input type="checkbox"/> No
All coils shall operate 12 volt and require a max of 1400 milli-amps	<input type="checkbox"/> Yes <input type="checkbox"/> No
Each segment shall be equipped with a rack and pinion manual override, except for the auger and spinner sections	<input type="checkbox"/> Yes <input type="checkbox"/> No
Valve sections must have adjustable stroke limiter flow controls for each function	<input type="checkbox"/> Yes <input type="checkbox"/> No
Valve segments shall be Force America "ADD-A-FOLD" and shall be arranged as follows	<input type="checkbox"/> Yes <input type="checkbox"/> No
1. Hoist (double acting with down side relief set at 500 psi.)	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Plow lift (single acting with float position)	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Plow angle (double acting)	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Auger (Pressure compensated 15GPM)	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. Spinner (Pressure compensated 5GPM)	<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Pre-Wet (Pressure compensated 7GPM)	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>OIL RESERVOIR</u>	

Is to be included with valve enclosure	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is to be Force America model VT-35	<input type="checkbox"/> Yes <input type="checkbox"/> No
Enclosure shall be stainless steel and mounted at a height to be determined	<input type="checkbox"/> Yes <input type="checkbox"/> No
HYDRAULIC PLUMBING	
Wherever possible stainless steel hydraulic tubing should be used. Rubber hose lengths should be kept to a minimum	<input type="checkbox"/> Yes <input type="checkbox"/> No
The hydraulic lines for the snowplow shall also utilize stainless steel hydraulic tubing. These lines shall be routed on the drivers side of the truck and should not interfere with any maintenance that needs to be done to the chassis. Whip hoses should be ran from the end of these hoses and bulkheaded to the snowplow hitch push plate attached to frame rails.	<input type="checkbox"/> Yes <input type="checkbox"/> No
All hydraulic hoses installed outside the frame rails shall be wrapped in a kevlar hose protection material. This is to include all hoses routed to the plow, spreader, pre-wet system.	<input type="checkbox"/> Yes <input type="checkbox"/> No
LOW OIL SENSOR	
Will be installed in tank along with electronic shut down valve for pump if a low oil condition is sensed .	<input type="checkbox"/> Yes <input type="checkbox"/> No
HYDRAULIC VALVE ENCLOSURE	
The valve assembly shall be mounted in a weather-tight enclosure	<input type="checkbox"/> Yes <input type="checkbox"/> No
The enclosure shall be fabricated of 12-gauge stainless steel	<input type="checkbox"/> Yes <input type="checkbox"/> No
The cover shall be held to enclosure by four rubber latches	<input type="checkbox"/> Yes <input type="checkbox"/> No
All plumbing shall be external, directly into the bottom of the manifold base.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The valve must be exposed on three sides for easy service (Force America VT-35 is required)	<input type="checkbox"/> Yes <input type="checkbox"/> No
HIGH PRESSURE FILTER	
High pressure filter to be 10 micron double length and have # 16 ports	<input type="checkbox"/> Yes <input type="checkbox"/> No
To be mounted between pump and valve	<input type="checkbox"/> Yes <input type="checkbox"/> No
Model Force America # 30P210BE1S50NN1	<input type="checkbox"/> Yes <input type="checkbox"/> No
Body Builder Shall supply an extra , Force America, #30P210BE1S50NN1 filter upon delivery of truck.	<input type="checkbox"/> Yes <input type="checkbox"/> No
HOSES	
Suction line to be 2' I.D CRIMPED ENDS	<input type="checkbox"/> Yes <input type="checkbox"/> No
1" 2-wire pressure hose pump to valve	<input type="checkbox"/> Yes <input type="checkbox"/> No
1" 2-wire return hose valve to tank	<input type="checkbox"/> Yes <input type="checkbox"/> No
3/4" 2-wire pressure hose valve to hoist	<input type="checkbox"/> Yes <input type="checkbox"/> No
1/2" 2-wire pressure hose valve to plow functions	<input type="checkbox"/> Yes <input type="checkbox"/> No
3/8" 2-wire load sense hoses	<input type="checkbox"/> Yes <input type="checkbox"/> No
All quick couplers and hoses to be Parker spec.	<input type="checkbox"/> Yes <input type="checkbox"/> No
All quick couplers on truck side, plow ,salt spreader and pre-wet, Shall all have Brass Fittings	<input type="checkbox"/> Yes <input type="checkbox"/> No
All quick couplers shall have dirt caps on truck side, snow plow, spreader, and spinner and Prewet System.	<input type="checkbox"/> Yes <input type="checkbox"/> No
CUSHION VALVE	
Force America cushion valve with pressure release will be supplied and plumbed	<input type="checkbox"/> Yes <input type="checkbox"/> No
FRAME MOUNTED PRE-WET SYSTEM	
A frame mounted behind the cab pre-wet system shall be included in this pricing	<input type="checkbox"/> Yes <input type="checkbox"/> No
It shall include 2 -120 gallon reservoir with (2) two pressure relief valves on top of this tank.	<input type="checkbox"/> Yes <input type="checkbox"/> No

Stainless steel mounting brackets	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tailgate props/ salt sheids to be fabricated out of stainlees steel- salt shields shall NOT be mounted to the inside of tailgate	<input type="checkbox"/> Yes <input type="checkbox"/> No
Varitech hydraulic pump and flow meter, and will be controlled via in cab controller furnished by Force America	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pump unit positioned on driver side	<input type="checkbox"/> Yes <input type="checkbox"/> No
Shall have 2" quick fill port with male cam locks and cover of the same	<input type="checkbox"/> Yes <input type="checkbox"/> No
Full length stainless steel spray bar in auger trough mounted with stainless steel clamps	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>BONNELL MODEL HFF-QLX</u>	
Hitch shall be designed to transfer the plowing forces directly to the truck frame side rails	<input type="checkbox"/> Yes <input type="checkbox"/> No
Until shall be custom built to fit any specific truck and shall be low-profile design to provide clearance for tilt hood with a stationary grill.	<input type="checkbox"/> Yes <input type="checkbox"/> No
A pressure release valve is to be plumbed into the hydraulic lines of the plow, reversing circuit, and installed near the front hitch. This valve is to have a ¼" hydraulic line that is plumbed back to hydraulic reservoir.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>PLOW FRAME</u>	
The plow frame shall be designed to allow clearance for a front mount pump to protrude throught the frame so that the frame can be mounted as close to the grille as possible	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pumps mounted behind the frame not acceptable	
The plow frame uprights shall be 4"x4" x ½" structural steel angle with provisions for plow hookup on lower part of these angles	<input type="checkbox"/> Yes <input type="checkbox"/> No
This plate shall be 27" x 36" in size	<input type="checkbox"/> Yes <input type="checkbox"/> No
A window shall be flamed cut in the center of this plate to allow for protrusion of pump	<input type="checkbox"/> Yes <input type="checkbox"/> No
The cylinder ears shall be of ½" steel plate and shall be offset to one side	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>LEVELING LIFTING MECHANISM</u>	
By means of telescopic lift arm	<input type="checkbox"/> Yes <input type="checkbox"/> No
This shall be accomplished with a telescoping lift arm which can be extended out to a point directly above the pivoting point of the reversing assembly	<input type="checkbox"/> Yes <input type="checkbox"/> No
This lift arm shall be adjustable to 10 different positions	<input type="checkbox"/> Yes <input type="checkbox"/> No
The plow control joystick shall be a dual axis.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The outer bar shall be fabricated of 4"x 4"x 3/16" structural steel tubing with ½" ears welded at the base.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The bar shall have two 3/8" x 2-1/2" side braces	<input type="checkbox"/> Yes <input type="checkbox"/> No
The inner bar shall be fabricated of two ½" x 3" flat bars and ¼"x3" bars welded into tubular configuration	<input type="checkbox"/> Yes <input type="checkbox"/> No
The front of this inner bar shall have slots to accept ½" chain	<input type="checkbox"/> Yes <input type="checkbox"/> No
There shall be ample room provided to hook up the chains with ease without interference	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>SIDE PLATE MOUNTING</u>	
The hitch mounting shall incorporate full one-piece side plates made of ½" thick A-36 steel plate	<input type="checkbox"/> Yes <input type="checkbox"/> No
These side plates shall be mounted on both sides of the truck frame rails and shall utilize the optimum space available for the particular type of truck	<input type="checkbox"/> Yes <input type="checkbox"/> No

Side plates shall be spaced out from the frame to assure clearance of the steering mechanisms, spring hangers, and brake lines	<input type="checkbox"/> Yes <input type="checkbox"/> No
Spacers shall be of heavy wall D.O.M tubing with at least ¼" wall thickness	<input type="checkbox"/> Yes <input type="checkbox"/> No
Both side plates shall be braced from the lower rear center portion of the push frame to the inside lower center portion of the side plates with ½"x2" steel flat	<input type="checkbox"/> Yes <input type="checkbox"/> No
A cross brace shall also be used between side plates to form a solid triangle with above mentioned bracing	<input type="checkbox"/> Yes <input type="checkbox"/> No
Side plates shall extend to the center line of the front axle and shall use full depth available for the particular type of truck to be used.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The controller shall not weigh more than one pound	<input type="checkbox"/> Yes <input type="checkbox"/> No
Side plates shall be mounted to the frame using no less than eight 5/8" Grade 5 bolts and lock nuts where possible	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>SUBFRAME</u>	
The subframe is the structure which bridges the side plates at the front, and provides a place to weld the front frame.	
The subframe shall be boxed arrangement with 6"x4"x½" upright angles the same depth as the side plates	<input type="checkbox"/> Yes <input type="checkbox"/> No
These uprights shall be bolted to the side plates with five ¾" grade 5 bolts per side	<input type="checkbox"/> Yes <input type="checkbox"/> No
The uprights shall be bridged at the bottom with 4"x4"x ½" angle. And the top with 4"x4"x1/2" angle	<input type="checkbox"/> Yes <input type="checkbox"/> No
The top angle shall be bolted to the top of the truck frame with two ½' grade 5 bolts per side	<input type="checkbox"/> Yes <input type="checkbox"/> No
The subframe shall be X-braced with 3/8" x 2" flat steel from corner to corner	<input type="checkbox"/> Yes <input type="checkbox"/> No
Front frame to be continuously welded to subframe with no skip welding	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>LIFT CYLINDER</u>	
Lift cylinder will be Nitrated 4x10 double acting	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>SPECIAL REQUIRMENTS</u>	
QLX Quick-attach receiver to be welded solid into plow frame	<input type="checkbox"/> Yes <input type="checkbox"/> No
Supplier to take all required action to keep receiver as close to axle as possible	<input type="checkbox"/> Yes <input type="checkbox"/> No
Receiver shall be drop pin design manufactured by Bonnell Industries NO EXCEPTIONS .	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>PLOW</u>	
<u>FULL TRIP MOLDBOARD</u>	
Shall be 11 feet long with a cutting path at 35 degrees	<input type="checkbox"/> Yes <input type="checkbox"/> No
Shall have a uniform height of 42 inches with an integral shield with driver side and passenger side mailbox cutout.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The moldboard shall be made of 10-gauge steel	<input type="checkbox"/> Yes <input type="checkbox"/> No
Shall include an integral deflector with an 18 inch overhang from cutting edge to a point directly below the top leading edge	<input type="checkbox"/> Yes <input type="checkbox"/> No
The front top edge of the moldboard shall be reinforced by 1/2"x3-1/2". flat steel which shall run the entire length of the moldboard	<input type="checkbox"/> Yes <input type="checkbox"/> No
The moldboard shall be reinforced at the bottom with 7"x4"x1/2" angle	<input type="checkbox"/> Yes <input type="checkbox"/> No
This angle shall be further reinforced by means of 3/8"x 6-3/4" flat plate	<input type="checkbox"/> Yes <input type="checkbox"/> No
This flat plate shall completely box the bottom angle the full length of the moldboard in a triangular shape	<input type="checkbox"/> Yes <input type="checkbox"/> No
This shall have arched openings at each blade bolt hole	<input type="checkbox"/> Yes <input type="checkbox"/> No
These openings shall allow an impact socket to reach the bladé bolt/nut	<input type="checkbox"/> Yes <input type="checkbox"/> No
This angle will have hole spacing three inches from the end, then 3 inch centers to	<input type="checkbox"/> Yes <input type="checkbox"/> No

mount cutting edge for a standard highway punch blade system.	
Five lower hinge ears spanning 90 inches shall mount the moldboard to the reversing table assembly	<input type="checkbox"/> Yes <input type="checkbox"/> No
Each hinge ear shall consist of a single 1 1/2in thick steel casting or weldment that sandwiches each of the five 1/2in cenetr ribs and shall incorporate a 2in ODx5/16in wall bushing x3in long creating 3in. of bearing length per hook up point	<input type="checkbox"/> Yes <input type="checkbox"/> No
The table shall be pinned to the moldboard at these five points with 1-1/4 in. C1045 pins.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The moldboard shall be further reinforced with a total of seven 1/2x3 in. ribs made of A-36 plate steel and plasma cut to the proper moldboard contour.	<input type="checkbox"/> Yes <input type="checkbox"/> No
There shall be an intermediate reinforcement of 4"x4"x3/8" angle between the ribs running between the second and third moldboard ribs from each end.	<input type="checkbox"/> Yes <input type="checkbox"/> No
All welding on the plow to be continuous – no stitch welding	<input type="checkbox"/> Yes <input type="checkbox"/> No
METROPOLITAN REVERSING TABLE AND A-FRAME ASSEMBLY .	
The reversing table shall have at its front a 4x3/8 in. wall square tubing 90-3/4 inches in length	<input type="checkbox"/> Yes <input type="checkbox"/> No
The front push beam shall have ten ears of 1/2 in. plate to accommodate five 1-1/4 in. C1045 pins. The ears shall span 91-3/4 in.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The front push beam and the rear sector shall be welded together with 1/2 in. plate gussets at the top and bottom corners.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The table shall provide 1/2 in. plates (10 in. tall x 18 in. long single bent) with eight 3/4 inch holes to accommodate running gear.	<input type="checkbox"/> Yes <input type="checkbox"/> No
These plates shall wrap around the ends of the front push beam, and tie into the above mentioned 1/2 in. plate gussets.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Plow semi-circle is fabricated from 5-1/4in.x3-1/2x1/2 in. angle, plasma cut from 1/2 in. plate and welded solid.	<input type="checkbox"/> Yes <input type="checkbox"/> No
A-frame/circle retainer shall be 3/4x3 in. x 24" wide, securing the a-frame to the table.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Two positive stops are to be welded to the semi-circle and set to allow the moldboard to swing 35 degrees in either direction.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Double-acting reversing cylinders shall have a 3 in. bore x 10 in. stroke with 2 in. diameter chrome-plated rod and a maximum working pressure of 2500 PSI.	<input type="checkbox"/> Yes <input type="checkbox"/> No
These cylinders shall be secured by C1045 cold-drawn steel pins.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The A-Frame shall be constructed of C4x13.8 ship and car channel with a 1-1/8 in. thick rear member for attachment of an oscillating bar	<input type="checkbox"/> Yes <input type="checkbox"/> No
The oscillating plate is to have a 1-1/2 in. diameter hole.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The A-Frame shall have welded to it four 1/2 in. thick steel plate cylinder ears and two 3/4 in. thick steel plate pivot point ears.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The pivot pin shall be a 1-1/4 in. Grade 5 bolt secured by a	<input type="checkbox"/> Yes <input type="checkbox"/> No

hex slotted nut and cotter pin.	
Pivot bushing shall be 2 in. OD x 3-7/8 in. long	<input type="checkbox"/> Yes <input type="checkbox"/> No
Hydraulic hoses are to be abrasion resistant, extremely flexible, and work in a temperature range of -50 degrees to +250 degrees F.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The 1/2 in. I.D. hose is rated at 3,000 PSI working pressure and 12,000 PSI burst pressure	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>COMPRESSION SPRING TRIPPING MECHANISM</u>	
There shall be two compression spring trip assemblies with polyurethane cushion bushings installed on each end of each trip assembly (four total).	<input type="checkbox"/> Yes <input type="checkbox"/> No
The springs shall be made from AISI 5160H steel with a tensile strength of 112,000 - 140,000# PSI and has a spring rating of 300# per inch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Tripping action shall be cushioned with (4) poly bushings, one poly bushing at each end of each trip bar.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Each bushing shall be 3-1/8 in. O.D. x 3 in. long with a bonded steel bushing 1-3/4 in. O.D. x 1-9/32 in. I.D. Durometer shall be 83 Shore A.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Trip bars shall be anchored at the moldboard horizontal 4x4x3/8 in. angle braces with (4) 1/2 in. thick ears, that are welded to the intermediate horizontal brace	<input type="checkbox"/> Yes <input type="checkbox"/> No
Trip bars shall be anchored at the table with (4) 1/2 in. thick ears. The fastener of the top and bottom of each trip bar shall be 1-1/4 in. C1045 pins.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The extent of forward trip shall be limited to keep the top edge of the moldboard away from the ground at full trip.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Four 3/8 in. thick ears shall be welded to the moldboard to allow for provisions for additional springs on the plow. Corresponding ears shall be provided on the table.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>CUTTING EDGE</u>	
Will be Carbide Valley Blade Polar Flex system, with (2) curb guards with 2 inch round stock . (driver side and passenger side) Also, two cast cutting edge shoe group.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>FINISH</u>	
All major components shall be sandblasted	<input type="checkbox"/> Yes <input type="checkbox"/> No
All steel is to receive two coats of DuPont tough coat primer	<input type="checkbox"/> Yes <input type="checkbox"/> No
Paint shall be one coat of DuPont™ Nason™ Fast Dry Acrylic Enamel, color ORANGE	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>HOOK UP</u>	
Flink style QL2.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>LEVEL LIFTING MECHANISM .</u>	
The plow shall be equipped with dual 1/2 inch grade 43 lift chains attached to level lift plate.	<input type="checkbox"/> Yes <input type="checkbox"/> No
This shall provide a level-lifting situation when the chains are hooked up to a telescoping lift arm on the hitch.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Shall have a self-leveling plate for when snowplow is in the raised position when angling plow left or right the snowplow shall remain level at all times.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>NITRATED RODS</u>	
The reversing cylinders will be Nitrated for rust protection.	<input type="checkbox"/> Yes <input type="checkbox"/> No

<u>PLOW MARKERS</u>	
The plow shall be equipped with two 36 inch tall blaze orange bolt on plow markers	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>COVECUT</u>	
The moldboard shall be trimmed on the Curb Side and Street side such that minimum overhang will protrude over the cutting edge when the plow is reversed. (Mailbox cut) (drivers side and passenger side)	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>RUBBER FLAP</u>	
The moldboard shall be equipped with a rubber flap kit.	<input type="checkbox"/> Yes <input type="checkbox"/> No
This shall include a 3/8x12 in. inch flap made from rubber belting, and 10 gauge retainer bars that run full length of the moldboard using stainless steel bolts and nuts.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>STAINLESS STEEL UNDER-TAILGATE SALT SPREADER</u>	
This 6" under-tailgate spreader shall be constructed of 304 stainless steel and shall be of the bottom opening design	<input type="checkbox"/> Yes <input type="checkbox"/> No
The entire unit will mount to the sides and below the floor level of the dump box with single-pin, quick-detachable hardware.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Mounting shall allow the dumping of materials without interference from the spreader.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The overall spreader width shall not be over 96"	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>HOPPER</u>	
Rigid 7-gauge one-piece end plates of 304 stainless steel shall be continuously welded to a 7-gauge 304 stainless steel auger trough	<input type="checkbox"/> Yes <input type="checkbox"/> No
The unit will have a 7-gauge 304 stainless steel three-point hinged bottom that will expose the entire auger for easy clean out.	<input type="checkbox"/> Yes <input type="checkbox"/> No
This hinged bottom shall be held in place by two heavy-duty cam locks with a lift handle for one-man handling.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The anti-spill cover over the discharge opening will be 7-gauge 304 stainless steel construction and shall be removable without the use of tools	<input type="checkbox"/> Yes <input type="checkbox"/> No
The 7-gauge 304 stainless steel lid will be a one-piece hinged integral part of the unit that may be raised when spreading and lowered when dumping.	<input type="checkbox"/> Yes <input type="checkbox"/> No
This lid shall be locked in the raised position by two latches	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>FEED MECHANISM</u>	
The six-inch, heavy-duty auger shall consist of 3/8" fliting which is welded to a 2-3/8" O.D. Schedule 40 pipe.	<input type="checkbox"/> Yes <input type="checkbox"/> No
This auger shall have continuous and reverse fliting for more uniform emptying and is supported by 1¼" steel shaft ends.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The auger shaft will be supported on one end in sealed, self-aligning, precision single-row radial bearings with grease fittings and on the other end by <u>The Sensored direct-drive motor.</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No
The discharge port is located 24" from the left end	<input type="checkbox"/> Yes <input type="checkbox"/> No

<u>SPINNER</u>	
The spinner shall consist of a single 18" diameter polymer disc with six formed polymer fins, to provide a flat trajectory and a uniform spreading pattern from four to forty feet	<input type="checkbox"/> Yes <input type="checkbox"/> No
The spinner assembly shall be adjustable, allowing for variable spreading patterns left, center or right by sliding the hinged frame sideways on the shaft so that the point at which the material hits the spinner disc is varied.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The entire spinner assembly shall be easily removed by pulling two pins and uncoupling two hydraulic "quick disconnect" hoses.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The polymer spinner disc will be mounted directly onto the hydraulic motor shaft by means of a steel spinner hub.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The spinner assembly shall remain horizontal to the road at all dump box angles.	<input type="checkbox"/> Yes <input type="checkbox"/> No
A spinner shield shall be provided to prevent material from striking the truck.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>POWER TRAIN</u>	
There shall be two separate hydraulic "orbital type" motors capable of delivering high torque at low speeds, powering both the spinner and the auger	<input type="checkbox"/> Yes <input type="checkbox"/> No
They will have Nickel plated shafts for corrosion resistance. NO EXCEPTIONS.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The auger shall be powered by a 22.6 cubic inch displacement hydraulic motor mounted to the end plate and directly coupled to the auger by a non-corrosive UHMW polyethylene sleeve and a 1/2" Grade 5 bolt.	<input type="checkbox"/> Yes <input type="checkbox"/> No
The minimum 2.8 cubic inch independent spinner motor shall mount directly to the spinner disc and shall <u>have a stainless steel shaft. No Exceptions.</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No
The spinner speed and auger feed rate are both variable through optional valve systems.	<input type="checkbox"/> Yes <input type="checkbox"/> No
<u>MOUNTING</u>	
Shall fasten to the side of the dump body using quick-disconnect pins for fast mounting and removal of spreader without use of special tools	<input type="checkbox"/> Yes <input type="checkbox"/> No
All mounting hardware shall be stainless steel	<input type="checkbox"/> Yes <input type="checkbox"/> No
The entire salt spreader system shall remain Natural Finish –Not Painted	<input type="checkbox"/> Yes <input type="checkbox"/> No

Special Equipment Notes

All mounted equipment must have a one-year warranty from date of delivery of unit.

A pre-construction meeting will be required for component approval at truck body facility.

Several construction inspections may be required, at Village's direction, for construction approval at truck facility.

All control console electrical switches shall have a lifetime warranty.

Equipment contractor must be a factory authorized distributor for all equipment furnished.

There will be a pre-paint inspection with equipment installer, within three weeks after the pre-construction meeting.

DETAIL EXCEPTIONS SHEET

EXCEPTIONS: Any exception must be clearly noted on the *Detail Exceptions Sheet(s)*. Failure to do so may be reason for rejection of the bid. It is not our intention to prohibit any potential Bidder from bidding by virtue of the specifications, but to describe the material(s) and service(s) actually required. The Village reserves the right to accept or reject any or all exceptions.

DETAIL EXCEPTIONS SHEET MUST BE ENCLOSED WITH BID SHEET.

Bidder's exceptions are:
