



**TOWN OF STRATFORD  
PURCHASING DEPARTMENT  
STRATFORD, CONNECTICUT**

BID No. 2014-065

Issued : September 17, 2014

Subject : Mack Truck Chassis with Dump Body

The Town of Stratford through the Office of the Purchasing Agent, will receive SEALED BIDS for furnishing the equipment described in the accompanying specifications, in accordance with the instructions, conditions and reservations that follow:

**A. CLOSING DATE:**

Bids will be received until 3:00 pm September 24, 2014, at which time they will be publicly opened and read. All bidders are invited to attend this public opening, which will be held immediately following the closing time specified above, in the Office of the Purchasing Agent, Room 202, Town Hall, 2725 Main Street, Stratford, CT 06615.

Any bid may be withdrawn prior to the above-scheduled time for receiving bids or authorized postponement thereof. Any bids received after the date and time specified shall NOT be considered. No bidder may withdraw a bid within 45 days after the actual opening thereof.

## **B. INSTRUCTIONS:**

Bid proposals are to be submitted (**TWO COPIES**) in a sealed envelope and clearly marked with the bid number and description on the outside of the envelope, including all outer packaging (DHL, FedEx, UPS, etc).

Bids must be delivered to:

Purchasing Department  
Stratford Town Hall – Rm 202  
2725 Main Street  
Stratford, CT 06615

## **C. CONDITIONS:**

### **Bid Surety:**

A bid surety is not required.

**Payment:** Final payment will be made upon the acceptance of the completed work by an authorized representative of the Town of Stratford. NO partial payments will be made. Invoices covering the work specified herein should be forwarded to the Purchasing Department upon completion of the project.

**Taxes:** The Town of Stratford is exempt from all State and Federal taxes. Do not include these amounts in your quotation.

**Addendums:** All addendums will be posted on the town website, [www.townofstratford.com](http://www.townofstratford.com). It is the responsibility of the bidder to check the website for any addendums before submitting their bid.

**F.O.B. Destination:** All prices quoted must be net delivered to destination.

**Conflict of Interest:** No public official or employee shall, while serving as such, have any financial interest or engage in any business, employment, transaction or professional activity or incur any obligation of any nature which is in substantial conflict with the proper discharge of his/her duties or employment in the public interest.

## **D. RESERVATIONS:**

The Town of Stratford may consider informal any bid not prepared and submitted to the Town in accordance with the provisions herein stated. The Town of Stratford reserves the right to reject any or all bids or parts of bids; to waive defects in same bids; or to accept any bid or part thereof deemed to be in the best interests of the Town of Stratford.

Supply detailed descriptions and specifications of all items..

**1. Characteristics**

The truck bid must be of the latest model and satisfactory for Heavy Duty Highway Maintenance and Plow Operation. Supply Plow / Plow Hitch / Spreader/Dump Body GVW 48,000 lbs.

**Bid Proposals shall Meet or Exceed the Minimum Specification (No Exception)**

	<b><u>Comply</u></b>	<b><u>Exception</u></b>	<b><u>Comment</u></b>
<b><u>2015 Model Year or Newer</u></b>	_____	_____	
Intent: Mack GU712 4 Wheel Truck			
Chassis Package: Clear Back of Cab HHF			
Emissions, Burner Box LH Rail, Air Tanks			
Under Batteries Tanks, Remaining on Frame Rail	_____	_____	
<b><u>A</u></b>			
<b><u>Wheelbase, Cab to Axle Dimensions</u></b>			
Wheelbase shall be approximately 180" and no Longer than is needed to accommodate Body specified	_____	_____	
Cab to Axle 92" Useable	_____	_____	
Axle to Frame 51"	_____	_____	
<b><u>B.</u></b>			
<b><u>Chassis</u></b>			
Frame Rails 11.811" x 3.54 x .44 Steel 120,000 PSI	_____	_____	
RBM 3,580,000in per rail. <u>Minimum</u>	_____	_____	
120,000 PSI Steel Huck bolted construction Bumper to end of Frame Rail.	_____	_____	
20 Inch Front Frame Extension for Installation For Plow Specified. Must be Parent Rail No Bolt –Ons	_____	_____	

Comply                      Exception                      Comments

**C. Engine-Diesel**

2010 Federal Emission Certified the use of SCR Technology Selective Catalytic Reduction to include Diesel Exhaust Fluid Tank and SCR Catalyst can be used. 2010 EPA Emission requirement of 0.2 g/hp-hr NOx. (There is No Exception to this item)

405 peak horse power . 1480 lb.ft. Max torque	_____	_____
Inline Six (6) Cylinder	_____	_____
10.8 liter Minimum	_____	_____
In Head Fuel Passages	_____	_____
Two(2) Fuel Injection Event Design	_____	_____

**D. Engine Components**

High pressure unit injection system	_____	_____
2000 bar pressure capability for fuel economy	_____	_____
Single Overhead Cam with roller followers 4 valve Per cylinder.	_____	_____
Hand primer pump	_____	_____
Borg Warner On/Off Engine Fan Control	_____	_____
Electronic modules to monitor fuel timing, coolant Temperature, coolant level, and oil pressure	_____	_____
Single Poly Belt	_____	_____
Spin-on Fuel, Water and Dual (Two) Full flow Oil filters	_____	_____
Spin-on coolant filter	_____	_____
Single variable Geometry Turbo Charger Programmable Governor	_____	_____
Diesel Particulate Filter vertical right hand side Under passenger side of cab.	_____	_____
Exhaust after treatment system diesel particulate Filter with ceramic passive Regeneration. DPF regeneration control fully auto in motion Manual stationary, manual inhibit	_____	_____
Vertical Exhaust Cab Mounted Clear of Back of Cab	_____	_____
12 Volt 130 Amp Delco 24-SI Alternator	_____	_____
Batteries (3) 12 Volt M/F 1000/3000 CCA	_____	_____
Engine shutdown system shall be compatible with Engine specified with manual override, warning, Lights and buzzer.	_____	_____
Inside / Outside Air Intake for Snow plow Use With Dash Mounted Control	_____	_____
Front Crankshaft P.T.O Adapter	_____	_____

<u>Engine Continued:</u>	<u>Comply</u>	<u>Exception</u>	<u>Comments</u>
Engine Brake Compression 400 hp brake power (Exhaust type Engine Brakes will not be accepted)	_____	_____	
120 Volt engine block heater with recessed chrome mounted plug under driver's side door	_____	_____	
Air cleaner restriction gauge dash mounted	_____	_____	
Davco Model 382 Heated Fuel Water Separator (25 Micron) to include primary and secondary Fuel Filters	_____	_____	
Silicone hoses radiator and heater with Spring Clamps on Radiator	_____	_____	
Maximum available cooling system compatible with engine specified	_____	_____	
Gear driven air compressor 18.7 cfm -40 degrees coolant protection	_____	_____	
Clog Resistant Radiator	_____	_____	
Engine shutdown system to reduce power as condition worsens, alerts driver through yellow then red warning lights	_____	_____	
Engine pre heater	_____	_____	
Tether device, furnish cap retainer for oil fill and Radiator overflow tank, battery box.	_____	_____	
12 Volt Starter Delco 39MT-MXT	_____	_____	
<u>Battery Location Shall Not be in Cab or under Cab above Frame Rail</u>	_____	_____	
Oil Pan shall be Corrosion Resistant Material	_____	_____	
Front Polymor Mud Flaps	_____	_____	
Electrical connections shall be water proofing spray On All "External" Connections and on Battery Hold down bolts.	_____	_____	

<u>E. Transmission and Drive-lines</u>	<u>Comply</u>	<u>Exception</u>	<u>Comments</u>
Allison 6-Speed Automatic Model 4500RDS Six Forward Gears Ratio 4.70/.67 and One Reverse	_____	_____	
Gen 4 includes direct mount Oil internal filter, Oil level sensor	_____	_____	
RDS PKG# 223	_____	_____	
Oil Pump	_____	_____	
Transmission Temperature Gauge	_____	_____	
Drive-line Main 1760HD with coated splines	_____	_____	
Transmission Shutdown Sensor for low coolant	_____	_____	
Dash Mounted Shifter	_____	_____	
Flywheel Housing Aluminum	_____	_____	

	<u>Comply</u>	<u>Exception</u>	<u>Comments</u>
<b><u>F. Frame Equipment</u></b>			
Bumper Steel sweptback steel channel	_____	_____	
Cross member Steel I Beam behind cab and Intermediate	_____	_____	
Cross member –behind rear axle	_____	_____	
Towing service hooks	_____	_____	
Aluminum Fuel Tank LH 72 gallons with integral 33 Liter DEF Tank under Driver’s side Door w/grated step	_____	_____	
Tow Hooks Front and Rear	_____	_____	
Braided Hoses for Fuel Line	_____	_____	
<b><u>G. Front Axle Equipment</u></b>			
Front Axle 18,000lbs	_____	_____	
Front Springs Multi-leaf 18,000lbs.	_____	_____	
Heavy Duty Double Acting Front Shocks	_____	_____	
Front Wheels Hub Piloted 22,5 x 9.0 Hayes	_____	_____	
Lemmerz 10 Hole. 11 ¼ five Hand Hole	_____	_____	
Front Tires 315/80R22.5 20 Ply M860	_____	_____	
Meritor Brakes Front “S” Cam 16.5 x 6 Q Plus Or Bendix ES “S” Cam Minimum	_____	_____	
Hubs Ferrous	_____	_____	
Brake drums cast outboard mounted	_____	_____	
Front Dust shields	_____	_____	
Fag schaeffler sealed oil seals M/F	_____	_____	
Slack Adjusters automatic	_____	_____	
Power Steering Sheppard SD110+HD94	_____	_____	
<b><u>Rear Axle:</u></b>			
Meritor Model RS-30-185 Single			
Rear Axle 30,000 lbs.	_____	_____	
Rear Springs 30,000 lbs. Multi Leaf	_____	_____	
With Auxiliary Helper Springs	_____	_____	
Heavy Duty Carrier	_____	_____	
Locking Main Differential Driver Controlled			
Dash Mounted Switch	_____	_____	
Axle Ratio 5.38	_____	_____	
10 Hole Hub Piloted Hayes Lemmerz Steel Disc			
Rims two Hand Hole	_____	_____	
Meritor Brakes “S” Cam 16.5 x 7 P Brakes Minimum	_____	_____	
Brake Drums Rear Cast	_____	_____	

	<u>Comply</u>	<u>Exception</u>	<u>Comment</u>
<b><u>Rear Axle Continued:</u></b>			
Dust Shields	_____	_____	
Haldex "Gold Seal" Spring Brake Chambers	_____	_____	
Chicago Rawhide Oil Seals	_____	_____	
Rear Tires 315:80R22.5 20 Ply Traction M680A	_____	_____	
Spring Chambers 36/36 Minimum	_____	_____	

**I. Air Brakes**

Air Lines Extruded Nylon Tubing	_____	_____	
Air Brake System Dual	_____	_____	
Heated Air Dryer Wabco	_____	_____	
Air control valves vendor bendix switches and Valves where possible	_____	_____	
Automatic Heated drain valves	_____	_____	
Air tanks mounted forward of Fuel Tanks and Under cab. Not between frame rails	_____	_____	
Manual Drain Valve with lanyard control	_____	_____	
Air Tanks Clear of Transmission Area	_____	_____	
Trailer Connections to Rear of Frame with Glad Hands. Hand Control Valve Dash Mounted	_____	_____	
Electrical 7 Pin Connector End of Frame	_____	_____	

**J. Electrical**

Back-up Alarm Constant Audible	_____	_____	
Battery Box Polished Aluminum Cover	_____	_____	
Electric Circuit protection package all circuits fused and breaker protected	_____	_____	
Battery Box left hand frame mounted forward of Fuel Tank under Cab	_____	_____	
Waterproof electrical connections sprayed with Protective coating "Body Link" 111 with Cab Pass - Thru	_____	_____	
Dash Mounted body hoist up with indicator light	_____	_____	
Factory Installed Auxiliary Dash Control Power Supply for Plow Lamps to include leads at Grill with 2W/3W Weather Pack Connections	_____	_____	
Daytime running lights	_____	_____	
Single Seven Pin STD SAE Type, EOF Receptacle	_____	_____	
Factory Installed L.E.D Lighting mounted on LH/RH Fuel Tank Steps Facing Rearward with dash Mounted Switch	_____	_____	

	<u>Comply</u>	<u>Exception</u>	<u>Comment</u>
<b><u>K.</u></b>			
<b><u>Cab Conventional BBC 116"</u></b>			
Heavy Duty welded Steel Cab	_____	_____	
Severe Reinforcement Cab Option	_____	_____	
Air restriction dash mounted	_____	_____	
Arm rest pads driver and passenger doors	_____	_____	
Ash Tray	_____	_____	
Cab mounting dual air bag suspension	_____	_____	
Severe Duty cab mountings and brackets	_____	_____	
Custom interior to include padded doors, headliner and rear panel. (No plastic or paper material type panels)	_____	_____	
Entire Cab to be Factory rust proofed	_____	_____	
Three (3) Overhead storage compartments	_____	_____	
Center overhead compartment to accommodate Two way Radio Mounting Plate grounded and Positive and negative posts Overhead Counsel	_____	_____	
4" Rubber Hood Fender Extensions	_____	_____	
Dual Hood Air Intake Brite Finish	_____	_____	
Rear Storage pouch	_____	_____	
Brite Finish Steel Stationary <u>Radiator Mounted</u>			
Front Grill Stationary Radiator Mounted	_____	_____	
Exterior Sun Visor	_____	_____	
Steel Radiator Guard/Hood Must tilt without tilting Grill	_____	_____	
Dual Air Horns with Snow Covers	_____	_____	
Dual City Horns	_____	_____	
Front Mud Flaps	_____	_____	
Heavy Duty Two Speed Wiper Motor with Artic Wiper Blades with intermittent feature	_____	_____	
Factory Installed Two Piece <b><u>Heated</u></b> Windshield To extend from Top corner of cab pillars and run along lower section full length of Windshield and Run up the center of Glass	_____	_____	
Chrome L.E.D Roof Mounted Marker Lamps	_____	_____	
Diagonal Grab Handle mounted inside driver's Door	_____	_____	
Lap and Shoulder Seat Belts with fixed "D" Ring for Driver and Rider Seat	_____	_____	
Two Dash Mounted Switches shall be Labeled and Back-Lighted	_____	_____	
Tilt Hood with Molded Engine Protection	_____	_____	
Debris Shields	_____	_____	



**Cab Continued:**

	<b><u>Comply</u></b>	<b><u>Exception</u></b>	<b><u>Comments</u></b>
Auxiliary In Cab Clean-Out Pneumatic Line	_____	_____	
Cigar Lighter	_____	_____	
Heater and Air conditioner	_____	_____	
8 Inch Heated Convex Mirrors	_____	_____	
Mirrors Brite Finish Heated & RH Heated	_____	_____	
AM/FM CD Player	_____	_____	
Infinite adjustable steering column Tilt / Telescopic	_____	_____	
Air suspension Drivers Seat High Back	_____	_____	
Single High Back Passenger Seat	_____	_____	
Power Window and Door Locks	_____	_____	
CB Posts	_____	_____	
Self Cancelling Directional Signal Switch	_____	_____	
Seat Covering Vinyl	_____	_____	
Replaceable Filter Cab Filtration System	_____	_____	
Automatic Hood Latch when hood is opened	_____	_____	
Rear Window 48"x19" with Passenger Door	_____	_____	
Visibility peeper window 16 3/8 x 9 3/4	_____	_____	
5lb. fire ext. and Tri angle kit mounted in cab	_____	_____	
Gauge Cluster Exhaust Pyrometer, Transmission	_____	_____	
Gauges, Engine Oil.	_____	_____	
(2) 12 Volt Auxiliary Power Outlets Dash Mounted	_____	_____	
(4) Four Overhead Dome Lights	_____	_____	
Sun Visors LH/RH sides	_____	_____	
Suspended Brake and Accelerator Pedal	_____	_____	
Full Warning Dash Lamp Display System Central	_____	_____	
High mounted LCD. 8 standard gauges and 24	_____	_____	
Indicator lamps	_____	_____	
Maintenance due indicator, Engine Hour, Ambient	_____	_____	
Temp. and Sweet Spot indicator.	_____	_____	
Sound Proofing Insulated Cab	_____	_____	
Rectangular Convex above Passenger Door	_____	_____	
Power Door Locks and Power Windows	_____	_____	
Dash Mounted Instrument Cluster Display Enhanced	_____	_____	
4.5 Inch Diagnostic Display with Four Button Stalk	_____	_____	
Control	_____	_____	
RH/LH 3 Step Entry Lowest Step Not to exceed 18	_____	_____	
Inches from ground	_____	_____	

**L.**     **Paint**

Cab Exterior-Single Color – White

Clear Coat Urethane

Chassis Running Gear Black Urethane

Paint Code P3036

“E” Coat Painted White Rims

_____	_____
_____	_____
_____	_____
_____	_____

Spare Tires : One Front Mounted on Rims

Spare Tires : Two Mounted on Rims

**Auxiliary:**

Parts Book and Service CD

**M.**     **Warranty:**

12 Months Towing Chassis Related Failures

**Transmission** 5 Years 100% Parts and Labor

**Engine:** 5 Years/500,000 Miles 100% Parts and Labor

24 Months Towing on Warrantable Engine Failures,  
Block Stiffener , Cam Forging, Camshaft Caps and Bolts,  
Connecting Rod and Cap Forging , Coolant Pump Housing,  
Crankshaft Forging, Cylinder Block Casting , Cylinder Head  
Casting and Bolts, Engine Gears Rear Mounted, Exhaust Manifold  
Casting , Flywheel Housing , Intake Manifold Casting , Main Bearing  
Bolts and Caps, Oil Pump drive and Driven Gears , Thermostat Housing,  
Timing Gear Cover and Mounting Plate

**Rear Axle: 3 Years 250,000 miles to 100% Parts and Labor**

Bearings, Bearing Covers, Bolts and Nuts, Bull Gear,  
Carrier Housing, Mating Gear Set, Thrust Washers,  
Inter-axle Driveshaft, Power Divider and Pinion Housing  
Power Divider Cam, Wedges and Shift Fork, Spacers and  
Shims.

Yes   No   Comments

**Extended Engine Warranty**

**Engine: 24 Months 250,000 miles 100% parts and Labor**

Air Compressor, Compressor Drive Gear and Mounting  
Bolts. Bearings and all Main Rods, Belt Drive Pulleys,  
At Crankshaft, Belt Drive System Idler Pulley, Belt Tensioners  
Block Heater, Block Plugs, Block Stiffener Plate, Breather Tube  
Camshaft, Camshaft Caps and Bolts, Camshaft Bearings Cap Attachments  
Camshaft Bearing Saddle, Camshaft Bearings, Connecting Rod and Cap  
Screws Forging, Connecting Rod Bushings, Coolant Duct Cover  
Coolant Pump Base Plate, Drive Pulley, Impeller Assembly,  
Coolant Pump Housing, Crankshaft Forging, Crankshaft front  
And Rear Seals, Crankshaft Hub, Cylinder Block Housing, Cylinder  
Head Cap screws, Cylinder Head Castings, Cylinder Head Core Plugs,  
Cylinder Head Gasket, Cylinder Sleeves, EGR Control Valve Heat  
Shield, EGR Cooler Heat Shield, EGR Cooling Mounting Bracket,

EGR Piping Clamps and Gaskets, Electronic Unit Injectors, Electronic  
Unit O Rings, Electronic Injectors and Nozzles, Electronic Injector  
Sleeves, Engine Brake, Engine front Mounting Bracket, Engine Gears  
Engine lifting Eye Bracket, Engine Rear Mounting Bracket, Exhaust  
Manifold Castings, Exhaust manifold Gaskets, Rings, Studs, Wraps,  
Flex Plate, Flywheel, Flywheel Housing, Fly wheel Ring Gear,  
Fuel Filter Housing, Fuel Pressure Regulator, Fuel Supply Pump,  
Gaskets, Hoses and Fittings, Intake Manifold Gasket, Main  
Bearings and Bolts, Oil Cooler Core and Piping  
Oil cooler housing, oil fill tube, oil filter valve housing, Oil pan,  
Oil Pressure relieve valve, Oil Pump, Oil Pump Drive, Oil Pump  
Pick up tubes, Piston Rings, Liners, Snap Rings, Power steering  
Pump, Pre Heater, Rocker Arm Assembly, Rocker Arm Leaf Springs  
Rocker Arms, Shafts and Attaching Screws, Seals and O Rings, Sensor  
Engine Oil Level, Sensor Engine, Sensor Water in Fuel. Starter, Starter  
Heat Shield, Thermostat Housing, Timing Gear, TURBO CHARGER,  
Turbo Charger and VGT, Turbo Charge Coolant Lines, Turbo Charger  
Oil Drain and Feed, Turbocharger .VGT Actuator Coolant Lines, Valve  
Cover and Valve Heat Shield, Valve Train Components, Valves, springs

**Continued:**

Keepers, Guides, Rotators, Seats, Valve Yokes Bridge and Yoke Pins, Vibration Dampener. Exhaust after Treatment to include After Treatment Hydrocarbon injectors, shut off valve, air check valve, air solenoid valve Atomization Block, Cold Junction Box, Control Module, Diesel Particulate Filter, Differential Pressure Sensor Discharge Recirculation Valve, Fuel Pump, Ignition Coil, DPF Injectors for FES, Down Stream DPF Temp. Sensor, Internal Thermal Regen Temp. Sensor, Post Thermal Regen Temp. Sensor, Pre Treatment Sensor, NOX02 Sensor. Emission EGR: Engine

Electronic Control Unit, EGR Valve cooler and Mixer, EGR Piping, EGR Wiring, EGR Sensors Air Humidity, air inlet, boost pressure, EGR mass flow, EGR Temp. , Engine speed Crankshaft, Turbo Speed.

**Additional : Non Deductable Engine Extended Warranty 7 Years 150,000 Miles:** to include Turbo, Fuel Injectors, Water Pump, Air Compressor, Air Compressor Sprocket and Mounting Bolts, Bearings, Camshaft and Bushings , Camshaft Follower Housing, Camshaft Follower Assemblies, Camshaft Forging , Connecting Rod Assembly , Connecting Rods , Caps ,and Bolts, Coolant Duct Cover, Crankcase Separator, Crankcase Tubing and Hoses before Separator. Crankshaft, Camshaft Forging, Cylinder Block, Cylinder Block Casting, Main Caps and Bolts. Cylinder Head Assembly, Cylinder Head Casting , Cylinder Head Cap Screws. EGR Control Valve, EGR Cooler, EGR Mixer Chamber, EGR Pipes, Exhaust Manifold to EGR Cooler. EGR System Wiring Harness. Engine Brake Mechanism, Engine Control Module, Engine Heat Shield. Exhaust manifold Casting ,Fan Belt Tensioner Assembly, Flywheel Housing ,Fuel Injector Sleeves. Fuel Filter Housing, Flywheel Ring Gear, Fuel Pressure Regulator Valve , Fuel Supply Pump, Gaskets, Seals, “O” rings. All internally Lubricated Gears, Fluid Carrying Engine to Engine Hoses. Intake Manifold Casting , Ladder Frame , Engine Oil Cooler Core, Oil Pan , Oil Pump, Piston Rings and Liners, Power Steering Pump, Pre Heater, Rocker Arm Assembly (Must be adjusted) Rocker Lever Assembly, Valve Assembly, Valve Cover , Valve Yokes , Vibration Dampeners and Bolts.

**Additional:**

All bidders must be a Connecticut Authorized dealer of Truck chassis proposed. Must also be factory authorized to perform all warranty work for engine , transmission, and rear axles at their dealership please specify delivery date as time is of the essence and will be taken into consideration in bid award

## Combination Dump Body/Material Spreader and Snow Plow Hitch Specifications

These are the minimum detailed specifications to describe a snow removal package to be installed on the towns six (6) wheel cab and chassis with a minimum 96 inch cab to axle measurement to be finalized based on options. The equipment will meet all requirements of set forth herein.

All deviations from this specification must be addressed by the prospective bidder in writing and submitted with bid, note their have been changes in this description.

### Body General Description

Heavy duty body serving as a dump body or transformed to a sand/salt/material spreader by means of a hydraulically tilting floor. The body will be duraclass roll formed construction no exceptions.

Description	YES	NO
<b>BODY will be TBEI DURCLASS</b>		
Capacity to be a minimum of 5.7 cubic yards water level without side boards		
Inside width to be 84 inches, 6 to 8 yard struck capacity		
Inside length to be 120 inches		
Body outside width will be 96" bodies wider than 96" will not be accepted.		
Side height 28 inches, and to include 8 inch board pockets with oak boards		
Tailgate will be aluminum construction with 1/4 turn top release pin fixed to body.		
Cab shield 21 inches, 10 gauge 201 STAINLESS steel, reinforced on both ends. CORNERS WILL INCLUDE GROTE LED LIGHTS		
Front panel to be constructed from 3/16" 201 STAINLESS steel, reinforced by 4 full tubing type braces mount externally on front head sheet.		
Sides, constructed of 3/16" 201 STAINLESS steel, reinforced with two 10 gauge STAINLESS steel side 2 posts per side.		
Bottom of sides comes to a 45 degree formed taper		
The top tube is duraclass design formed into side welded top rail not acceptable.		
Tilt side must be single wall design serving as both outer and inner wall and moving with floor as one. Double wall designs are not acceptable.		
There will be two front and two rear corner posts made of 10 gauge 201 STAINLESS STEEL steel.		
<b>Tailgate</b>		
Constructed of aluminum sheet.		
Six panel design		
Top ears will be made of 1" stainless steel		
Top and bottom pins made of 1 1/4" cold rolled steel		
Top hinge will include greasing zerks		
Latches shall be over center design		
Tailgate will be double acting		
When tailgate is horizontal, it will be level with the floor		
Tailgate will be air operated, control will be inside cab of truck		
Tailgate to include 3 inside flush mounted stoker doors		

The body mounting along with hydraulic tank mounts will all be "Huck Bolted" this will include all mud flap mounting hardware and body guides all will be "Huck bolted" no exceptions for "Huck Bolting".

<b>Floor</b>	YES	NO
Constructed of 3/16" AR 400 steel 190,000 psi yield strength <i>No Exception</i>		
Reinforced 4" structural steel channel 12" O.C. traversing under the floor, I beam long sills. Honeycomb understructure not acceptable		
Floor hinge will be full length piano type all stainless steel welded in. The conveyor assembly is stainless steel bolted in.		
Blocks shall be grooved and fitted with grease zerks that are remote mounted to four corner location's for ease of maintenance. All extension hoses to be 2000 psi hydraulic type with swivel fittings.		
The combination of this floor hinge system and the above mentioned floor and understructure shall eliminate the need for 50/50 flow dividers or equalizing hydraulic systems. Such systems are <i>not acceptable</i>		
<b>Understructure</b>		
Two full length I beams at 25.4 lbs per ft		
<b>Longitudinal Conveyor</b>		
The conveyor is an integral part of body floor and runs longitudinally down the driver's side of the body, discharging in front of the rear wheels. Conveyor is bolt on removable type		
Conveyor frame is constructed of 3/16" corten steel.		
Removable conveyor wear plate constructed of 3/16" AR 400 steel 190,000 psi yield strength		
Conveyor cover plate in one section constructed of 3/16" AR 400 steel 190,000 psi steel reinforced with 2"x3/16" flats		
Conveyor cover plates are integral to unit and do not need to be removed from the body		
Chain maintenance system including access panel in rear apron to allow for removal of chain and slotted doghouse to allow for removal of gearbox		
<b>Chain and Driving Mechanism</b>		
Self-cleaning pintle type chain		
18 1/2" overall width		
Bar flights, 3/8"x1 1/4" spaced every other link		
All chain links are protected by integral chain guard leaving only bar flights exposed		
Chain is driven by 25:1 ratio gear box		
Gearbox assembly is installed on discharge end and is bolt on		
Front sprockets are ductile cast iron grade 60		
Driveshaft is 1 1/2" high resistant stress proof 100,000 psi steel		
Rear sprockets are ductile cast iron grade 30		
Idler shaft is 1 1/2" diameter 90,000 psi steel		
Tension of chain is adjusted by use of two stainless steel threaded rods. Adjust each.		
<b>Spinner Assembly</b>		
Spinner shaft is sealed type with motor on top		
Hydraulic motor is 30 cubic inch and is bi-rotational		
Spinner shaft contains two embedded self-greasing ball bearings		
Spinner assembly is chassis mounted and is bolt laterally adjustable and removable		
Urethane spreading disc is 18" diameter, steel discs are not acceptable		
Ultra light non-adhesive polyethylene chute feeds the spreading disc. Chute is both adjustable and removable. Chute must be chassis mounted and use a 3/8x1" flat rod with adjustable holes to maintain its adjustment.		

<b>Hoist Cylinder</b>	YES	NO
Dana hydraulic		
Capacity of 20 tons at 2000 psi		
Inverted cylinders, chrome rod only		
Chrome cylinder are acceptable only		
Hoist cradle mounting will be 4x4x1/2 angle using "Huck Bolts"		
<b>Tilt Floor Hydraulic Cylinders</b>		
Two Dana double acting cylinders		
Cylinder size is 3 1/2" diameter x 22 1/2" stroke		
Combined capacity of 19 tons at 2000 psi		
Cylinder is stainless steel rods only		
Cylinder ends contain bushings with grooves and zerks for greasing		
Pins holding cylinders in place are made from 30,000 psi cold stainless steel		
Bottom cylinder bracket must be located on passenger side I beam to provide push from a place of strength		
Top of cylinder must mount in base of passenger sidewall and have access ports from which cylinder pins may be accessed		
<b>Safety and Accessories</b>		
Ladder, appropriately braced, forgiving style, with self-cleaning steps and grab handle located at left front corner of body		
Stainless steel holder for two chock blocks		
Stainless steel shovel holder with 5/16" snapper pin		
Safety leg to hold the body in raised position		
Safety leg to hold the floor in raised position		
Eleven safety stickers		
Center mud flap to protect rear brake chambers		
Four rubber mudflaps		
Owners manual, bauer 24 18 18 stainless steel toolbox side mounted		
<b>Hydraulic System</b>		
The system is to be furnished and completely installed to power and control all hydraulic requirements satisfactorily, both independently and collectively		
Rexroth transmission mounted direct mounted.		
Control valves with Airquip test fitting (inlet with relief, plow up and down, left and right, body up, side dump up and down with down pressure relief and power beyond). Stainless steel Rexroth valve box with stainless hardware		
a valve shall be installed to operate the load cover		
the Hydraulic Load Cover, will be power cover		
The Controls are air operated with a QDB1030 DUAL DIAL for the spreader controller. body up lever safety lock, and engraved plaque to identify lever functions		
Hydraulic tank, to be mounted behind cab vertically, 37 gallon capacity, with low oil sender, breather cap, and sight/temp gauge combo valve tank enclosure		
Shut off valves, to be 1/4 turn ball shut off valves		
Return filter will be 10 micron spin on type, with 15-psi relief by-pass and conditions indicator gauge		
Hydraulic manifold, all return lines to be routed into centrally located manifold		

<b>Hydraulic System (continued)</b>	YES	NO
Hydraulic pipes to deliver and return hydraulic oil from control valve to plow functions to be, integrated, modular, 1/2" ID. Stainless steel tubing .065 wall, custom bent and mounted in cushion clamps. Not to obstruct normal maintenance items. Extended lengths of hydraulic hose will not be accepted		
Pressure and suction line to pump appropriate size to meet system requirements. Joined with hydraulic hose at flex point.		
Hydraulic hose may only be utilized at flex points and must have swivel fittings on both ends for ease of replacement if necessary.		
<b>Electrical and Lighting</b>		
Plow lights will be Truck Lite #80800 mounted on the hood with custom stainless steel fender brackets		
A Trucklight completely sealed system with Truck Lite junction box, all terminals coated with silicone dielectric grease		
Premium Electrical System with the following: Trucklight lighting system with complete independent electrical circuitry utilizing a constant duty solenoid, buss bar, and circuit breakers mounted in enclosed box in cab		
Laminated Electrical Schematics of allied lighting shall be included		
Spinner light - Truck Lite		
Load light - Truck Lite		
ICC lighting - Trucklight with Lexan, heat and shatter resistant lenses		
Back up alarm - audible SA917 B4 ECCO		
Body up alarm - visual and audible		
Trailer plug - Cole Hersey #1235		
All auxiliary electrical components to be powered by self-contained, circuit breaker protected, electrical distribution system		
<b>Strobe System</b>		
GROTE LED LIGHT with front dual head LED and rear post with rear side post LED The GROTE lights will include full length harness run in conduit. lights are in recessed stainless steel boses mounted in rear corner posts of dump body.		
<b>Load Cover</b>		
Hydraulically operated via the Central Hydraulic System		
Asphalt Canvas - By Power Cover of Waterbury. No exceptions. With 2 year warranty. MTD by Power Cover		
<b>Plow Frame:</b>		
Shall be manufactured by a recognized snow plow manufacturer--HENDERSON		
Frame attachment shall be manufactured in such a way as to allow the hood of a chassis fitted with a tilt engine cowl and stationary grill work to tilt forward over the upper portion of such attachment		
Side plates 5/8" thick, reinforced and bolted as front frame extension		
Plow hitch assembled and mounted with "HUCK BOLTS" no exceptions		
Top cross members and vertical risers shall be constructed of 4"x3"x1/2" angle		
Bottom member is to be of 15"x4 1/2"x 1/2" C-Channel, interlaced with vertical members. dual push 30.5" OC with three (3) HOLES plate to be 1 inch heights. Cylinder base mounting bracket will be mounted to this member		
Lift yolk to be constructed of 1/2" steel sides to form a frame 1 1/8" tube for pivot and 1/4" plate for top. Yolk to pivot on a 1" diameter full width bolt with castle nut and cotter pin.		
Cylinder to be double acting, 4" bore x 10" stroke		



<b>Snow Plow: 1136 trip edge type HENDERSON ONLY</b>	YES	NO
The moldboard shall be a height of 36" with an 11' length		
The top edge of the plow constructed of 1.5"x2.5"x1/4" steel tubing		
There shall be seven 3/8" flat steel vertical ribs starting out at 7 3/4" wide at the base of moldboard reduced to 2 1/4" at the top. The vertical ribs are to be solid welded to the top of the tubing.		
Bottom horizontal reinforcement constructed of 4"x7"x1/2" steel with 3/8" thick flat steel welded to the edge of the tubing		
A-frame to be constructed of 4"x4"x3/8" reinforced tubular steel		
Main frame support to be constructed of 4"x4"x3/8" reinforced tube connected to a reversing table of 1/2" thick		
Two adjustable bars with three attack angles for applicable snow conditions		
A heavy duty 36"x4"x3/4" swivel bar with 1" thick revited built-in stops to allow for 25 degree swivel. Swivel bar connected to A-frame via 1" grade 5 bolt		
Push frame shall have dual 3"x15" dual acting cylinders		
cushion valve style		
Torsion type adjustable with tool to be provided 1 per plow		
Backer angle shall be 4"x6"x3/4" reinforced steel supported by six 5/8" heavy duty bushing and gussets and reinforcement kit.		
Extension springs are not acceptable.		
Plow face shall be highway orange. Entire plow assembly shall be primed and finished with black powder coat		
<b>Paint</b>		
All non stainless body parts requiring paint shall be sand blasted, primed, and POWDER COAT		
All spot painting shall be properly prepared and primed before the finish coat is applied		

**The package will include all the following items also.**

- 1. 20 Ton Pintle Assy on 3/4" plate with D-rings & Electric Plus glad hands \_\_\_\_\_
- 2. SHOVEL HOLDER, PRY BAR HOLDER AND CONE HOLDER. \_\_\_\_\_
- 3.the unit will be completely functional and full of bio-blend hydraulic fluid \_\_\_\_\_
- 4. gear box drive to be full with lubriplate \_\_\_\_\_
- 5.The bodies will include a 10 inch stainless steel bolt on apron. \_\_\_\_\_
- 6.The chassis and all affected steel will be painted with continental 2 part epoxy black rust protection with 3 mil thickness \_\_\_\_\_
- 7. Their will be a inside step with inside handle on the driverside corner. \_\_\_\_\_
- 8. St pieere double roller stlye tire chains \_\_\_\_\_
- Total for the above package \$ \_\_\_\_\_

Option: \_\_\_\_\_  
supply and install one 290 gallon frame mounted behind the cab liquid tank with pre-wet spray nozzles and a rexroth 550 lite electronic controled spreader upgrade and all plumbing. ADD \$ \_\_\_\_\_

**TOWN OF STRATFORD**  
**BID SHEET**  
BID # 2014-065

DESCRIPTION : Mack Truck Chassis with Dump Body

Total Price for chassis and body \$ \_\_\_\_\_

**Attach a detailed list of specifications (including make and model).**

**Bidder shall note in writing any deviations from the bid requirements. Failure to do so may be just cause for rejection of vendor's bid as being nonresponsive.**

Bidder's Name : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

Phone : \_\_\_\_\_ Date : \_\_\_\_\_

Authorized Signature : \_\_\_\_\_

Print Name: \_\_\_\_\_

Title : \_\_\_\_\_

References (at least three, including contact name and phone) :

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_